Federal Aviation Administration

TM

U.S. Terminal Procedures Publication

Southwest (SW) Vol 4 of 4

Effective: 0901Z

05 NOV 2020

to: 0901Z

31 DEC 2020

Consult the Change Notice (CN) effective 03 DEC 2020 for revised Instrument Procedure Charts for this volume

Consult NOTAMs for latest information

Consult/Subscribe to FAA Safety Alerts and Charting Notices at:

http://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/

Published from digital files compiled in accordance with Interagency Air Committee specifications and agreements approved by Department of Defense - Federal Aviation Administration

TABLE OF CONTENTS

Inoperative Components or Visual Aids Table....A1
Explanation of Terms/Landing Minima Data....B1
General Information....C1
Abbreviations....D1
Legend — IAP Planview....E1
Legend — IAP Profile....F1
Legend — Departure Procedures and Standard Terminal Arrival Charts....G1
Legend — Airport Diagram/Sketch....H1
Legend — Approach Lighting Systems....I1
Frequency Pairing....J1
Index of Terminal Charts and Minimums....K1
IFR Takeoff Minimums, Departure Procedures, and Diverse Vector Area (Radar Vectors)....L1
IFR Alternate Airport Minimums....M1
Radar Minimums....N1
Land and Hold-Short Operations (LAHSO)....O1
Hot Spots....P1
Standard Terminal Arrival Charts....Z1
Terminal Charts....Page 1
Rate of Climb/Descent Table....Inside Back Cover
Area of Coverage....Outside Back Cover

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:
For digital products, visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/

For a list of approved FAA Print Providers, visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/

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

INOP COMPONENTS 19339

SW-4, 05 NOV 2020 to 31 DEC 2020

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

TERMS/LANDING MINIMA DATA 20142

SW-4, 05 NOV 2020 to 31 DEC 2020

TERMS/LANDING MINIMA DATA 19339

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.

TERMS/LANDING MINIMA DATA 19339

SW-4, 05 NOV 2020 to 31 DEC 2020

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)

SW-4, 05 NOV 2020 to 31 DEC 2020

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)

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

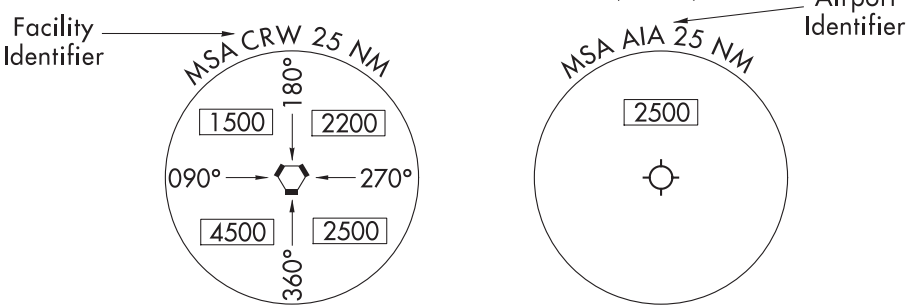
SCOTT
Chan 59
SKE
(112.2)
VHF Paired Frequency

SW-4, 05 NOV 2020 to 31 DEC 2020

LEGEND 20086

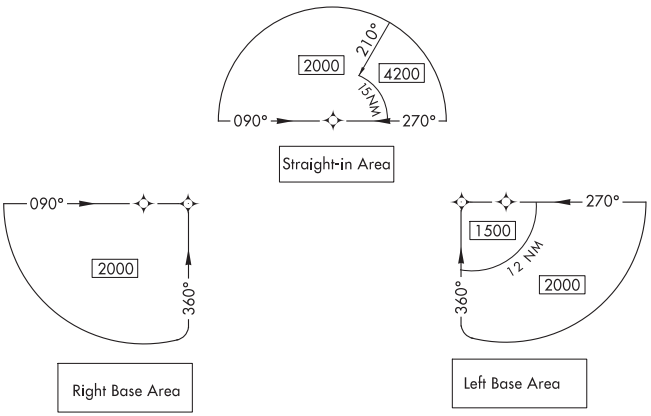
PLANVIEW SYMBOLS

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

SW-4, 05 NOV 2020 to 31 DEC 2020

LEGEND 20198

INSTRUMENT APPROACH PROCEDURES (CHARTS)

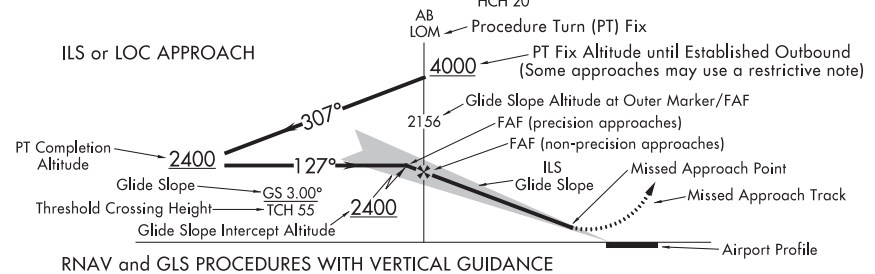
PROFILE VIEW

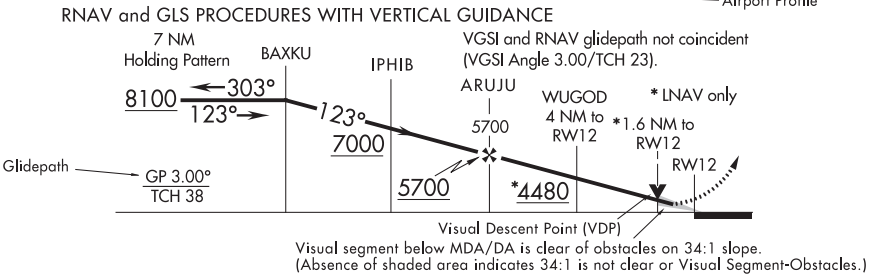
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

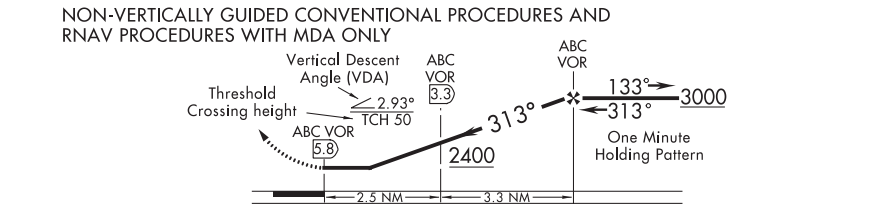
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°/TCH 55.

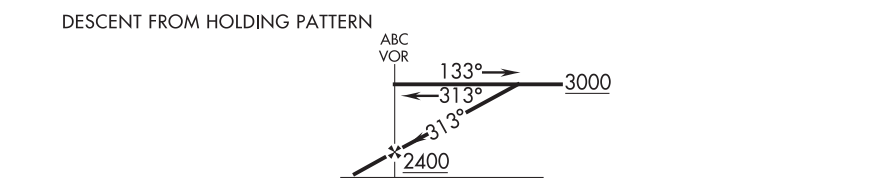
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle 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.

SW-4, 05 NOV 2020 to 31 DEC 2020

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

Non-Compulsory:

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

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)

Identifier

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

Frequency

ORLANDO
112.25 (T) ORL
Chan 59 (Y)
N28°32.56′ - W81°20.10′
L-19, H-5

Geographic Position

Underline indicates no voice transmitted on this frequency

Enroute Chart Reference

DME or TACAN Channel

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

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)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

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 ⟶ (shown when runway slope is greater than or equal to 0.3%)

⟵ 0.3% DOWN

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.

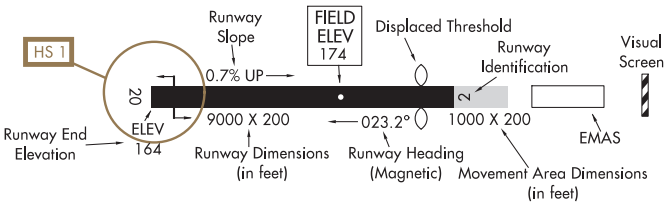
True/magnetic North orientation may vary from diagram to diagram

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.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

LEGEND 15344

INSTRUMENT APPROACH PROCEDURES (CHARTS)

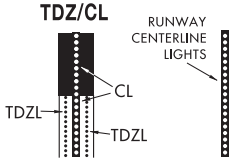
APPROACH LIGHTING SYSTEM - UNITED STATES

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

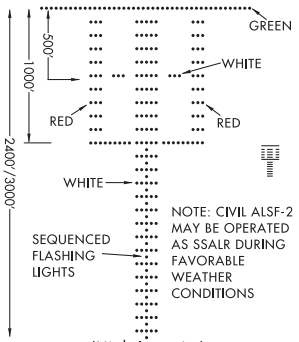


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

APPROACH LIGHTING SYSTEM

A

ALSF-2



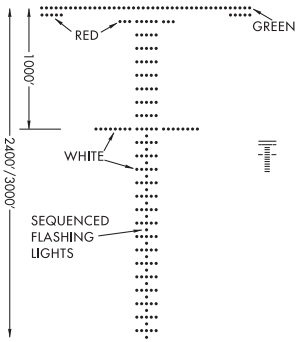
NOTE: CIVIL ALSF-2 MAY BE OPERATED AS SSALR DURING FAVORABLE WEATHER CONDITIONS

(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)

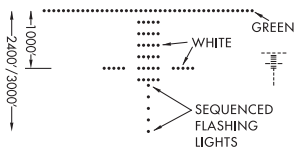
SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

A3

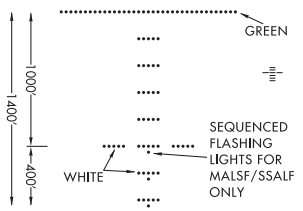
SSALR



(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

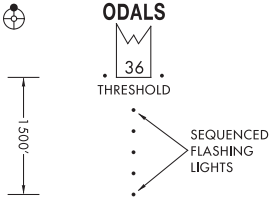
A5

MALSR

SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

ODALS



LENGTH 1500 FEET

V VISUAL APPROACH SLOPE INDICATOR

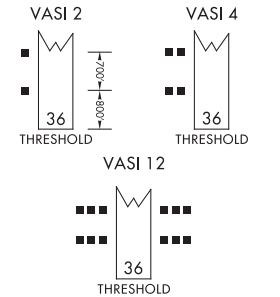
VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

ALL LIGHTS WHITE — TOO HIGH

FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE

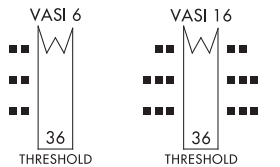
ALL LIGHTS RED — TOO LOW



V3 VISUAL APPROACH SLOPE INDICATOR

VASI

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



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LEGEND 15344

LEGEND 18256

INSTRUMENT APPROACH PROCEDURES (CHARTS)

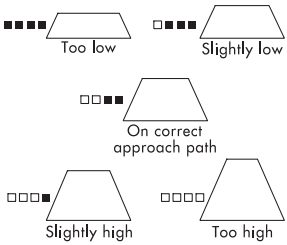
APPROACH LIGHTING SYSTEM - UNITED STATES

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

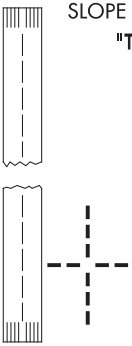
PAPI



Legend: □ White ■ Red

(V1) "T"-VISUAL APPROACH SLOPE INDICATOR

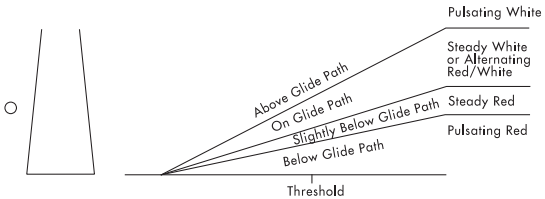
"T"-VASI



"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

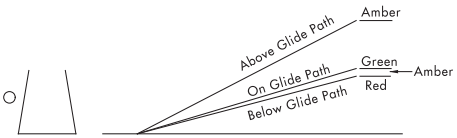
PVASI



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

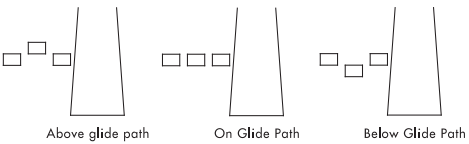
TRCV



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.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

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.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FREQ PAIRING 20198

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

AVI SUQUILLA
---SEE PARKER, AZ

BATTLE MOUNTAIN, NV
BATTLE MOUNTAIN(BAM)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 04 1
RNAV (GPS) RWY 22 2
VOR RWY 04 3
AIRPORT DIAGRAM 4

BEAVER, UT
BEAVER MUNI(U52)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS)-A 5

BISBEE DOUGLAS INTL
---SEE DOUGLAS BISBEE, AZ

BLANDING, UT
BLANDING MUNI(BDG)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 35 6

BOLINDER FIELD-TOOELE VALLEY
---SEE TOOELE, UT

BOULDER CITY, NV
BOULDER CITY MUNI(BVU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
STARS ..... CLARR THREE Z15
FUZZY EIGHT Z27
KADDY THREE Z37
LUXOR TWO Z43
IAPS ..... RNAV (GPS) RWY 27 7
AIRPORT DIAGRAM 8

BRIGHAM CITY, UT
BRIGHAM CITY RGNL(BMC)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 35 9

BRYCE CANYON, UT
BRYCE CANYON(BCE)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 03 10
RNAV (GPS) RWY 21 11
DPS ..... BRYCE TWO (OBSTACLE) (RNAV) 12

BULLHEAD CITY, AZ
LAUGHLIN/BULLHEAD INTL(IFP)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 16 13
RNAV (GPS) RWY 34 14
VOR RWY 34 15
AIRPORT DIAGRAM 16

NAME PROC SECT PG

CANYONLANDS FIELD
---SEE MOAB, UT

CARBON COUNTY RGNL/BUCK DAVIS FIELD
---SEE PRICE, UT

CARSON CITY, NV
CARSON(CXP)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 27 17
RNAV (GPS)-A 18
RNAV (GPS)-B 19
AIRPORT DIAGRAM 20
DPS ..... JIMPA TWO (OBSTACLE) (RNAV) 21

CASA GRANDE, AZ
CASA GRANDE MUNI(CGZ)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC RWY 05 22
RNAV (GPS) RWY 05 23
RNAV (GPS) RWY 23 24
VOR RWY 05 25

CEDAR CITY, UT
CEDAR CITY RGNL(CDC)
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC RWY 20 26
RNAV (GPS) RWY 20 27
VOR RWY 20 28
AIRPORT DIAGRAM 29

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

CHANDLER, AZ
CHANDLER MUNI(CHD)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
HOT SPOT ..... P
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
DSERT TWO (RNAV) Z21
HUUTY ONE (RNAV) Z29
SUNSS EIGHT Z59
IAPS ..... RNAV (GPS) RWY 04R 30
VOR RWY 04R 31
AIRPORT DIAGRAM 32
DPS ..... BNYRD SIX (RNAV) 33
FTHLS SIX (RNAV) 34
IZZZO SEVEN (RNAV) 35
JUDTH SEVEN (RNAV) 36
KATMN SIX (RNAV) 37
LALUZ SIX (RNAV) 38
MAYSA SEVEN (RNAV) 39
SNOBL SIX (RNAV) 40
YOTES SIX (RNAV) 41
STELLAR AIRPARK(P19)
TAKEOFF MINIMUMS L
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
SUNSS EIGHT Z59
IAPS ..... VOR-A 42

CLIFTON/MORENCI, AZ
GREENLEE COUNTY(CFT)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 43
DPS ..... SAN SIMON ONE (OBSTACLE) (RNAV) 44

COCHISE COUNTY
---SEE WILLCOX, AZ

COLORADO CITY, AZ
COLORADO CITY MUNI(AZC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 11 45
RNAV (GPS) RWY 29 46
NDB-A 47

COOLIDGE, AZ
COOLIDGE MUNI(P08)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... GPS RWY 23 48
VOR RWY 05 49

COTTONWOOD, AZ
COTTONWOOD(P52)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 32 50
DPS ..... MINGY ONE (OBSTACLE) (RNAV) 51

DAVIS-MONTHAN AFB(KDMA)
TUCSON, AZ
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC Y RWY 12 52
ILS OR LOC Y RWY 30 53
RNAV (GPS) RWY 12 54
RNAV (GPS) RWY 30 55
TACAN Y RWY 12 56
TACAN Y RWY 30 57
AIRPORT DIAGRAM 58
DPS ..... BBALL ONE RWY 30 59
DAVIS MONTHAN TWO 60
MESCA ONE RWY 12 62

DELTA, UT
DELTA MUNI(DTA)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 17 63
RNAV (GPS) RWY 35 64
VOR/DME RWY 17 65
VOR RWY 35 66

DERBY FIELD
---SEE LOVELOCK, NV

DOUGLAS BISBEE, AZ
BISBEE DOUGLAS INTL(DUG)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 17 67
VOR/DME RWY 17 68
VOR RWY 17 69

DUCHESNE, UT
DUCHESNE MUNI(U69)
TAKEOFF MINIMUMS L
IAPS ..... VOR/DME-A 70

DUGWAY PROVING GROUND, UT
---SEE MICHAEL AAF

ELKO, NV
ELKO RGNL(EKO)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 06 71
RNAV (GPS) RWY 24 72
LDA/DME RWY 24 73
VOR/DME-B 74
AIRPORT DIAGRAM 75

ELY, NV
ELY AIRPORT-YELLAND FIELD(ELY)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 18 76
VOR/DME-C 77
AIRPORT DIAGRAM 78
DPS ..... ELY TWO (OBSTACLE) 79

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

EUREKA, NV
EUREKA(05U)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 18 81
DPS ..... MINES ONE (OBSTACLE) (RNAV) 82

FALCON FIELD
---SEE MESA, AZ

FALLON, NV
FALLON MUNI(FLX)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-C 83
VOR-B 84
AIRPORT DIAGRAM 85

FALLON NAS (VAN VOORHIS FLD)(KNFL)
FALLON, NV
TAKEOFF MINIMUMS L
RADAR MINIMUMS ..... N
IAPS ..... RNAV (GPS) RWY 13R 86
RNAV (GPS) RWY 31L 87
TACAN RWY 13R 88
TACAN RWY 31L/R 89
AIRPORT DIAGRAM 90
DPS ..... WATER SEVEN 91
YERIN SEVEN 93

FILLMORE, UT
FILLMORE MUNI(FOM)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 04 94
RNAV (GPS) RWY 22 95

FLAGSTAFF, AZ
FLAGSTAFF PULLIAM(FLG)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 21 96
RNAV (GPS) RWY 03 97
RNAV (GPS) RWY 21 98
VOR RWY 21 99
AIRPORT DIAGRAM 100
DPS ..... FLAGSTAFF ONE 101

FORT HUACHUCA SIERRA VISTA, AZ
SIERRA VISTA MUNI-LIBBY AAF(FHU)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
RADAR MINIMUMS ..... N
IAPS ..... ILS OR LOC RWY 26 102
RNAV (GPS) RWY 08 103
RNAV (GPS) RWY 26 104
VOR RWY 26 105
TACAN RWY 08 106
TACAN RWY 26 107
AIRPORT DIAGRAM 108

GLENDALE, AZ
GLENDALE MUNI(GEU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS ..... DSERT TWO (RNAV) Z21
SUNSS EIGHT Z59
IAPS ..... RNAV (GPS) RWY 01 109
RNAV (GPS) RWY 19 110
AIRPORT DIAGRAM 111
DPS ..... DRAKE TWO (OBSTACLE) (RNAV) 112
BNYRD SIX (RNAV) 113
FTHLS SIX (RNAV) 114
GLENDALE ONE 115
IZZZO SEVEN (RNAV) 116
JUDTH SEVEN (RNAV) 117
KATMN SIX (RNAV) 118
LALUZ SIX (RNAV) 119
MAYSA SEVEN (RNAV) 120
SNOBL SIX (RNAV) 121
YOTES SIX (RNAV) 122

GLOBE, AZ
SAN CARLOS APACHE(P13)
TAKEOFF MINIMUMS L
IAPS ..... GPS RWY 27 123
DPS ..... IZTIR TWO (OBSTACLE) (RNAV) 124

GOODYEAR, AZ
PHOENIX GOODYEAR(GYR)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
STARS ..... DSERT TWO (RNAV) Z21
SUNSS EIGHT Z59
IAPS ..... RNAV (GPS) RWY 03 125
AIRPORT DIAGRAM 126
DPS ..... POTER THREE (OBSTACLE) (RNAV) 127
BNYRD SIX (RNAV) 128
FTHLS SIX (RNAV) 129
GOODYEAR TWO 130
IZZZO SEVEN (RNAV) 131
JUDTH SEVEN (RNAV) 132
KATMN SIX (RNAV) 133
LALUZ SIX (RNAV) 134
MAYSA SEVEN (RNAV) 135
SNOBL SIX (RNAV) 136
YOTES SIX (RNAV) 137

GRAND CANYON, AZ
GRAND CANYON NATIONAL PARK(GCN)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
IAPS ..... ILS OR LOC RWY 03 138
RNAV (GPS) RWY 03 139
VOR RWY 03 140
AIRPORT DIAGRAM 141
DPS ..... GRAND FOUR (OBSTACLE) 142
PARKS FOUR 143
VALLE(40G)
TAKEOFF MINIMUMS L
IAPS ..... GPS RWY 01 144
GPS RWY 19 145

GREENLEE COUNTY
---SEE CLIFTON/MORENCI, AZ

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

HAWTHORNE, NV
HAWTHORNE INDUSTRIAL(HTH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 28 146

HEBER, UT
HEBER VALLEY(HCR)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS)-A 147
DPS ..... COOLI SIX (RNAV) 148

HENDERSON EXECUTIVE
---SEE LAS VEGAS, NV

HILL AFB(KHIF)
OGDEN, UT
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC X RWY 14 149
ILS OR LOC Z RWY 14 150
TACAN RWY 14 151
AIRPORT DIAGRAM 152
DPS ..... DEVLN 1 153
FALCN ONE 154
FREMONT 1 (VECTOR) 155
ILONN 1 156
WILLARD 1 (VECTOR) 157

HUNTINGTON, UT
HUNTINGTON MUNI(69V)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-C 158
VOR-B 159

KANAB, UT
KANAB MUNI(KNB)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 01 160
DPS ..... KACIR TWO (RNAV) 161

KINGMAN, AZ
KINGMAN(IGM)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 03 162
RNAV (GPS) Y RWY 21 163
RNAV (GPS) Z RWY 21 164
VOR/DME RWY 21 165
AIRPORT DIAGRAM 166

LAGUNA AAF(LGF)
YUMA PROVING GROUND, AZ
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 06 167
RNAV (GPS) RWY 18 168
VOR RWY 06 169
AIRPORT DIAGRAM 170

LAKE HAVASU CITY, AZ
LAKE HAVASU CITY(HII)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 14 171
RNAV (GPS) RWY 32 172
VOR/DME-A 173

LAS VEGAS, NV
HENDERSON EXECUTIVE(HND)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... ADDEL ONE (RNAV) Z1
CLARR THREE Z15
FUZZY EIGHT Z27
JOMIX ONE (RNAV) Z36
KADDY THREE Z37
KNGMN TWO (RNAV) Z40
LUXOR TWO Z43
NOOTN TWO (RNAV) Z46
IAPS ..... RNAV (GPS)-B 174
VOR-C 175
AIRPORT DIAGRAM 176
DPS ..... ACSIN SIX (RNAV) 177
FLAMZ SIX (RNAV) 178
PALLY SIX (RNAV) 179

MC CARRAN INTL(LAS)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... CLARR THREE Z15
CRESO FOUR Z18
FUZZY EIGHT Z27
KADDY THREE Z37
KEPEC SIX (RNAV) Z39
LUXOR TWO Z43
SITEE FOUR (RNAV) Z55
SUNST FOUR (RNAV) Z60
TYSSN FIVE (RNAV) Z62
IAPS ..... ILS OR LOC RWY 01L 181
ILS OR LOC RWY 26L 182
ILS OR LOC RWY 26R 183
RNAV (GPS) RWY 01R 184
RNAV (GPS) RWY 19L 185
RNAV (GPS) RWY 19R 186
VOR/DME-A 187
VOR RWY 26L/R 188
AIRPORT DIAGRAM 189
DPS ..... BOACH EIGHT (RNAV) 190
COWBY EIGHT (RNAV) 192
HOOVER SIX 194
LAS VEGAS FIVE 195
MCCARRAN FIVE 196
PRFUM FOUR (RNAV) 198
SHEAD ONE (RNAV) 200
STAAV EIGHT (RNAV) 202
TRALR NINE (RNAV) 203

NORTH LAS VEGAS(VGT)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... CLARR THREE Z15
FUZZY EIGHT Z27
KADDY THREE Z37
LUXOR TWO Z43
IAPS ..... ILS OR LOC RWY 12L 205
GPS RWY 12R 206
GPS RWY 30L 207
AIRPORT DIAGRAM 208
DPS ..... BOULDER CITY ONE (OBSTACLE) 209
NORTHTOWN FIVE 210

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

LAS VEGAS, NV
---SEE NELLIS AFB
LAUGHLIN/BULLHEAD INTL
---SEE BULLHEAD CITY, AZ

LOGAN, UT
LOGAN-CACHE(LGU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC/DME RWY 17 211
RNAV (GPS) RWY 17 212
RNAV (GPS) RWY 35 213
AIRPORT DIAGRAM 214
DPS ..... ORNEY ONE (OBSTACLE) 215

LOVELOCK, NV
DERBY FIELD(LOL)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 02 216
RNAV (GPS) RWY 20 217
VOR-A 218

LUKE AFB(LUF)
GLENDALE, AZ
TAKEOFF MINIMUMS L
STARS ..... LENNI THREE Z42

LUKE AFB, AZ
---SEE GLENDALE, AZ

MANTI, UT
MANTI-EPHRAIM(41U)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 03 219
DPS ..... WUXOT ONE (OBSTACLE) (RNAV) 220
YMONT ONE (OBSTACLE) (RNAV) 221

MANTI-EPHRAIM
---SEE MANTI, UT

MARANA, AZ
MARANA RGNL(AVQ)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 03 222
RNAV (GPS) RWY 12 223
RNAV (GPS) RWY 21 224
RNAV (GPS)-E 225

MC CARRAN INTL
---SEE LAS VEGAS, NV

MESA, AZ
FALCON FIELD(FFZ)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
DSERT TWO (RNAV) Z21
HUUTY ONE (RNAV) Z29
SUNSS EIGHT Z59
IAPS ..... RNAV (GPS) RWY 04L 226
RNAV (GPS) RWY 04R 227
RNAV (GPS)-B 228
AIRPORT DIAGRAM 229
DPS ..... MESA ONE (OBSTACLE) 230
SACAT THREE (RNAV) 231

MESQUITE, NV
MESQUITE(67L)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 02 232

MICHAEL AAF(DPG)
DUGWAY PROVING GROUND, UT
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 12 233
TACAN RWY 12 234
AIRPORT DIAGRAM 235

MILFORD, UT
MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 16 236
RNAV (GPS) RWY 34 237
VOR/DME-A 238

MINDEN, NV
MINDEN-TAHOE(MEV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT .... P
IAPS ..... RNAV (GPS)-A 239
RNAV (GPS)-B 240
AIRPORT DIAGRAM 241
DPS ..... MINDEN TWO (OBSTACLE) (RNAV) 242

MOAB, UT
CANYONLANDS FIELD(CNY)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 03 243
VOR-A 244

NELLIS AFB(KLSV)
LAS VEGAS, NV
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
IAPS ..... ILS OR LOC X RWY 21L 245
LOC Y RWY 21L 246
TACAN X RWY 21L 247
SIN CITY VISUAL RWY 03L/R 248
AIRPORT DIAGRAM 249
DPS ..... DREAM SIX 250
FYTTR FIVE 251
MORMON MESA SEVEN 252

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

NEPHI, UT
NEPHI MUNI(U14)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 17 253
RNAV (GPS) RWY 35 254
DPS ..... NEPHI TWO (OBSTACLE) (RNAV) 255

NOGALES, AZ
NOGALES INTL(OLS)
TAKEOFF MINIMUMS L
IAPS ..... VOR/DME OR GPS-B 256
DPS ..... NOGALES TWO (OBSTACLE) 257

NORTH LAS VEGAS
---SEE LAS VEGAS, NV

OGDEN, UT
OGDEN-HINCKLEY(OGD)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
LAHSO ..... O
HOT SPOT ..... P
IAPS ..... ILS OR LOC RWY 03 259
RNAV (GPS) RWY 03 260
VOR-A 261
AIRPORT DIAGRAM 262
DPS ..... EMONT THREE (OBSTACLE) 263

OGDEN, UT
---SEE HILL AFB

PAGE, AZ
PAGE MUNI(PGA)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 15 264
RNAV (GPS) RWY 33 265
VOR-B 266

PANGUITCH, UT
PANGUITCH MUNI(U55)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... RNAV (GPS) RWY 18 267
RNAV (GPS) RWY 36 268

PARKER, AZ
AVI SUQUILLA(P20)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 01 269
VOR/DME-A 270

PAYSON, AZ
PAYSON(PAN)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS)-A 271

PHOENIX, AZ
PHOENIX DEER VALLEY(DVT)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
DSERT TWO (RNAV) Z21
SUNSS EIGHT Z59
IAPS ..... RNAV (GPS) RWY 07R 272
RNAV (GPS) RWY 25L 273
RNAV (GPS)-B 274
AIRPORT DIAGRAM 275
DPS ..... DEERVALLEY ONE (OBSTACLE) 276
BNYRD SIX (RNAV) 277
FTHLS SIX (RNAV) 278
IZZZO SEVEN (RNAV) 279
JUDTH SEVEN (RNAV) 280
KATMN SIX (RNAV) 281
LALUZ SIX (RNAV) 282
MAYSA SEVEN (RNAV) 283
SNOBL SIX (RNAV) 284
YOTES SIX (RNAV) 285

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

PHOENIX, AZ (CON'T)
PHOENIX SKY HARBOR INTL(PHX)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
BRUSR ONE (RNAV) Z10
BUNTR THREE Z13
COYOT FIVE Z16
DSERT TWO (RNAV) Z21
EAGUL SIX (RNAV) Z23
HYDRR ONE (RNAV) Z30
JESSE TWO Z35
PINNG ONE (RNAV) Z48
SUNSS EIGHT Z59
IAPS ..... ILS OR LOC RWY 07R 286
ILS OR LOC RWY 08 287
ILS OR LOC RWY 25L 288
ILS OR LOC RWY 26 289
ILS OR LOC/DME RWY 07L 290
RNAV (RNP) Z RWY 07L 291
RNAV (RNP) Z RWY 07R 292
RNAV (RNP) Z RWY 08 293
RNAV (RNP) Z RWY 25L 294
RNAV (RNP) Z RWY 25R 295
RNAV (RNP) Z RWY 26 296
RNAV (GPS) Y RWY 07L 297
RNAV (GPS) Y RWY 07R 298
RNAV (GPS) Y RWY 08 299
RNAV (GPS) Y RWY 25L 300
RNAV (GPS) Y RWY 25R 301
RNAV (GPS) Y RWY 26 302
AIRPORT DIAGRAM 303
DPS ..... BALDY THREE 304
BROAK ONE (RNAV) 306
BUCKEYE FOUR 307
CHILY FOUR 309
ECLPS ONE (RNAV) 311
FORPE ONE (RNAV) 312
FYRBD ONE (RNAV) 314
KEENS TWO (RNAV) 315
MOBIE FOUR 316
MRBIL ONE (RNAV) 317
QUAKY ONE (RNAV) 319
ST. JOHNS NINE 321
STANFIELD FOUR 323
STRRM ONE (RNAV) 324
ZEPER TWO (RNAV) 326

PHOENIX, AZ (CON'T)
PHOENIX-MESA GATEWAY(IWA)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
STARS ..... ARLIN FOUR Z3
BLYTHE FIVE Z6
DSERT TWO (RNAV) Z21
HUUTY ONE (RNAV) Z29
SUNSS EIGHT Z59
IAPS ..... ILS OR LOC RWY 30C 328
RNAV (RNP) Z RWY 30C 329
RNAV (GPS) RWY 12C 330
RNAV (GPS) RWY 12R 331
RNAV (GPS) RWY 30L 332
RNAV (GPS) RWY 30R 333
RNAV (GPS) Y RWY 30C 334
VOR OR TACAN RWY 30C 335
AIRPORT DIAGRAM 336
DPS ..... PHOENIX ONE (OBSTACLE) 337
BNYRD SIX (RNAV) 338
FTHLS SIX (RNAV) 339
IZZZO SEVEN (RNAV) 340
JUDTH SEVEN (RNAV) 341
KATMN SIX (RNAV) 342
LALUZ SIX (RNAV) 343
MAYSA SEVEN (RNAV) 344
SNOBL SIX (RNAV) 345
YOTES SIX (RNAV) 346

PHOENIX GOODYEAR
---SEE GOODYEAR, AZ

PHOENIX-MESA GATEWAY
---SEE PHOENIX, AZ

PRESCOTT, AZ
PRESCOTT RGNL - ERNEST A LOVE FIELD(PRC)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
LAHSO ....O
HOT SPOT ....P
IAPS ..... ILS OR LOC/DME RWY 21L 347
RNAV (RNP) Z RWY 03R 348
RNAV (GPS) RWY 12 349
RNAV (GPS) RWY 21L 350
RNAV (GPS) Y RWY 03R 351
VOR RWY 12 352
AIRPORT DIAGRAM 353
DPS ..... PRESCOTT THREE (OBSTACLE) 354
WNSKI TWO 356

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

PRICE, UT
CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC RWY 01 358
RNAV (GPS) RWY 01 359

PROVO, UT
PROVO MUNI(PVU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
IAPS ..... ILS OR LOC RWY 13 360
RNAV (GPS) RWY 13 361
VOR/DME RWY 13 362
AIRPORT DIAGRAM 363
DPS ..... PROVO FOUR (OBSTACLE) 364

RENO, NV
RENO/STEAD(RTS)
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC RWY 32 365
RNAV (GPS) RWY 32 366
AIRPORT DIAGRAM 367
RENO/TAHOE INTL(RNO)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... ANAHO TWO Z2
EELZA TWO (RNAV) Z26
HARTT ONE (RNAV) Z28
KENNO TWO (RNAV) Z38
MYBAD TWO (RNAV) Z45
RUSME TWO (RNAV) Z52
RYANN ONE Z53
SIERRA THREE Z54
TARVR ONE Z61
WADOL TWO (RNAV) Z64
IAPS ..... ILS OR LOC/DME RWY 34L 368
ILS X OR LOC X RWY 16R 369
ILS Z OR LOC Z RWY 16R 370
ILS Y RWY 16R 371
RNAV (RNP) Y RWY 16L 372
RNAV (RNP) Y RWY 16R 373
RNAV (RNP) Z RWY 16L 374
RNAV (RNP) Z RWY 16R 375
RNAV (RNP) Z RWY 34L 376
RNAV (RNP) Z RWY 34R 377
RNAV (GPS) X RWY 16L 378
RNAV (GPS) X RWY 16R 379
RNAV (GPS) X RWY 34L 380
RNAV (GPS) X RWY 34R 381
RNAV (GPS) Y RWY 34L 382
RNAV (GPS) Y RWY 34R 383
LOC Y RWY 16R 384
VOR-D 385
TACAN-F 386
AIRPORT DIAGRAM 387
DPS ..... HUNGRY THREE 388
MUSTANG EIGHT 389
PVINE THREE (RNAV) 390
RENO NINE 391
SPLTM FOUR (RNAV) 392
VISTA TWO 393
WAGGE SIX 394
ZEFFR SIX (RNAV) 395

RICHFIELD, UT
RICHFIELD MUNI(RIF)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 19 396
DPS ..... HAMET THREE (OBSTACLE) (RNAV) 397
RICHFIELD TWO (OBSTACLE) (RNAV) 398

ROOSEVELT, UT
ROOSEVELT MUNI(74V)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 25 399
VOR-A 400

RYAN FIELD
---SEE TUCSON, AZ

SAFFORD, AZ
SAFFORD RGNL(SAD)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 12 401
RNAV (GPS) RWY 30 402
DPS ..... SAFFORD ONE (OBSTACLE) (RNAV) 403

ST GEORGE, UT
ST GEORGE RGNL(SGU)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 01 404
RNAV (GPS) RWY 19 405
LDA RWY 19 406
DPS ..... JITKA TWO (OBSTACLE) 407
HIVKA TWO (RNAV) 408
PHYLI TWO (RNAV) 409

ST JOHNS, AZ
ST JOHNS INDUSTRIAL AIR PARK(SJN)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 14 410
RNAV (GPS) RWY 32 411
VOR-A 412

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG
SALT LAKE CITY, UT		
SALT LAKE CITY INTL(SLC)		
TAKEOFF MINIMUMS		L
DIVERSE VECTOR AREA		L
HOT SPOT		P
STARS	BEARR FIVE	Z4
	BONNEVILLE TWO	Z7
	BRIGHAM CITY FOUR	Z8
	DELTA FIVE (RNAV)	Z19
	JAMMN FIVE	Z33
	LEEHY FIVE (RNAV)	Z41
	NORDK SIX (RNAV)	Z47
	QWENN FIVE (RNAV)	Z51
	SKEES FIVE (RNAV)	Z57
	SPANE SEVEN	Z58
	WAATS FIVE (RNAV)	Z63
IAPS	ILS OR LOC RWY 16L	413
	ILS OR LOC RWY 16R	414
	ILS OR LOC RWY 17	415
	ILS OR LOC RWY 34L	416
	ILS OR LOC RWY 34R	417
	ILS RWY 16R (SA CAT I)	418
	ILS RWY 34L (SA CAT I)	419
	ILS RWY 34R (SA CAT I)	420
	ILS RWY 17 (SA CAT I - II)	421
	ILS RWY 16L (CAT II - III)	422
	ILS RWY 16R (CAT II - III)	423
	ILS RWY 34L (CAT II - III)	424
	ILS RWY 34R (CAT II - III)	425
	RNAV (GPS) RWY 16L	426
	RNAV (GPS) RWY 16R	427
	RNAV (GPS) RWY 17	428
	RNAV (GPS) RWY 34L	429
	RNAV (GPS) RWY 34R	430
	RNAV (GPS) RWY 35	431
	LDA RWY 35	432
AIRPORT DIAGRAM		433
DPS	ARCHZ ONE (RNAV)	434
	CGULL ONE (RNAV)	435
	DEZRT ONE (RNAV)	436
	FAIRFIELD NINE	437
	RUGGD ONE (RNAV)	439
	SALT LAKE FOUR	441
	SEVYR THREE	443
	ZIONZ ONE (RNAV)	445
SOUTH VALLEY RGNL(U42)		
TAKEOFF MINIMUMS		L
IAPS	RNAV (GPS) RWY 34	446
DPS	SOUTH VALLEY ONE (RNAV)	447
SAN CARLOS APACHE		
---SEE GLOBE, AZ		
SCOTTSDALE, AZ		
SCOTTSDALE(SDL)		
TAKEOFF MINIMUMS		L
DIVERSE VECTOR AREA		L
ALTERNATE MINIMUMS		M
STARS	ARLIN FOUR	Z3
	BLYTHE FIVE	Z6
	DSERT TWO (RNAV)	Z21
	SUNSS EIGHT	Z59
IAPS	RNAV (RNP) RWY 21	448
	RNAV (RNP) Y RWY 03	449
	RNAV (RNP) Z RWY 03	450
	RNAV (GPS)-D	451
	RNAV (GPS)-E	452
	VOR/DME-A	453
AIRPORT DIAGRAM		454
DPS	MARICOPA ONE (OBSTACLE)	455
	BNYRD SIX (RNAV)	456
	FTHLS SIX (RNAV)	457
	IZZZO SEVEN (RNAV)	458
	JONHH TWO	459
	JUDTH SEVEN (RNAV)	461
	KATMN SIX (RNAV)	462
	LALUZ SIX (RNAV)	463
	MAYSA SEVEN (RNAV)	464
	SCOTTSDALE SEVEN	465
	SNOBL SIX (RNAV)	467
	YOTES SIX (RNAV)	468
SEDONA, AZ		
SEDONA(SEZ)		
TAKEOFF MINIMUMS		L
IAPS	GPS RWY 03	469
DPS	OATES ONE (OBSTACLE) (RNAV)	470
SHOW LOW, AZ		
SHOW LOW RGNL(SOW)		
TAKEOFF MINIMUMS		L
ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 25	471
	NDB-A	472
SIERRA VISTA MUNI-LIBBY AAF		
---SEE FORT HUACHUCA SIERRA VISTA, AZ		

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

SILVER SPRINGS, NV
SILVER SPRINGS(SPZ)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 24 473

SOUTH VALLEY RGNL
---SEE SALT LAKE CITY, UT

SPANISH FORK, UT
SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD(SPK)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) Y RWY 12 474
RNAV (GPS) Z RWY 12 475
RNAV (GPS)-A 476
DPS ..... SPANISH FORK ONE (OBSTACLE) 477

SPRINGERVILLE, AZ
SPRINGERVILLE MUNI(JTC)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 21 479

STELLAR AIRPARK
---SEE CHANDLER, AZ

TAYLOR, AZ
TAYLOR(TYL)
TAKEOFF MINIMUMS L
IAPS ..... GPS RWY 21 480
DPS ..... CAMBA THREE (RNAV) 481

TONOPAH, NV
TONOPAH(TPH)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 15 482
VOR OR GPS-A 483
AIRPORT DIAGRAM 484

TONOPAH TEST RANGE(KTNX)
TONOPAH, NV
TAKEOFF MINIMUMS L
IAPS ..... ILS OR LOC/DME RWY 14 485
ILS OR LOC/DME RWY 32 486
RNAV (GPS) RWY 14 487
RNAV (GPS) RWY 32 488
VOR/DME Z RWY 14 489
VOR/DME Z RWY 32 490
VOR/DME OR TACAN RWY 14 491
VOR/DME OR TACAN RWY 32 492
AIRPORT DIAGRAM 493
DPS ..... RANGE TWO (RNAV) 494
STOFF TWO 495
TONOPAH TWO 496
TUMBE ONE (RNAV) 497

TOOELE, UT
BOLINDER FIELD-TOOELE VALLEY(TVY)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC RWY 17 498
RNAV (GPS) RWY 17 499
DPS ..... STACO TWO (RNAV) 500

TUCSON, AZ
RYAN FIELD(RYN)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
IAPS ..... ILS OR LOC RWY 06R 501
RNAV (GPS) RWY 06R 502
NDB RWY 06R 503
AIRPORT DIAGRAM 504
DPS ..... ALMON ONE (OBSTACLE) (RNAV) 505
TUCSON INTL(TUS)
TAKEOFF MINIMUMS L
DIVERSE VECTOR AREA L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... DINGO FIVE Z20
ZONNA ONE (RNAV) Z65
IAPS ..... ILS OR LOC RWY 11L 506
RNAV (RNP) Y RWY 11L 507
RNAV (RNP) Y RWY 29R 508
RNAV (GPS) RWY 03 509
RNAV (GPS) RWY 11R 510
RNAV (GPS) RWY 21 511
RNAV (GPS) RWY 29L 512
RNAV (GPS) Z RWY 11L 513
RNAV (GPS) Z RWY 29R 514
LOC BC RWY 29R 515
VOR OR TACAN RWY 11L 516
VOR OR TACAN RWY 29R 517
AIRPORT DIAGRAM 518
DPS ..... BURRO FOUR (RNAV) 519
TUCSON EIGHT 520
WLDKT THREE (RNAV) 522

TUCSON, AZ
---SEE DAVIS-MONTHAN AFB

VALLE
---SEE GRAND CANYON, AZ

VERNAL, UT
VERNAL RGNL(VEL)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) Y RWY 35 523
RNAV (GPS) Z RWY 35 524
VOR RWY 35 525

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

WENDOVER, UT
WENDOVER(ENV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 08 526
RNAV (GPS) RWY 26 527
RNAV (GPS)-A 528
RNAV (GPS)-C 529
VOR/DME-B 530
VOR/DME OR TACAN RWY 26 531
AIRPORT DIAGRAM 532
DPS ..... WENDOVER ONE (RNAV) 533

WILLCOX, AZ
COCHISE COUNTY(P33)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 03 534
RNAV (GPS) RWY 21 535
DPS ..... COCHISE ONE (OBSTACLE) 536

WINDOW ROCK, AZ
WINDOW ROCK(RQE)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 03 537
RNAV (GPS)-B 538
VOR-A 539

WINNEMUCCA, NV
WINNEMUCCA MUNI(WMC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 14 540
RNAV (GPS) RWY 32 541
VOR RWY 14 542
AIRPORT DIAGRAM 543
DPS ..... WINNEMUCCA ONE (OBSTACLE) 544

WINSLOW, AZ
WINSLOW-LINDBERGH RGNL(INW)
TAKEOFF MINIMUMS L
IAPS ..... VOR OR GPS RWY 11 546

WINSLOW-LINDBERGH RGNL
---SEE WINSLOW, AZ

YUMA MCAS/YUMA INTL(KNYL)
YUMA, AZ
TAKEOFF MINIMUMS L
RADAR MINIMUMS ....N
IAPS ..... ILS OR LOC/DME RWY 21R 547
RNAV (GPS) RWY 03L 548
RNAV (GPS) RWY 17 549
RNAV (GPS) RWY 21R 550
VOR/DME OR TACAN RWY 17 551
VOR RWY 17 552
TACAN RWY 03L 553
TACAN RWY 21R 554
AIRPORT DIAGRAM 555
DPS ..... ARGUS FOUR 556
CARGO NINE 557
HEEDS TWO 559
MOHAK FOUR 560
PICACHO FOUR 561

YUMA PROVING GROUND, AZ
---SEE LAGUNA AAF

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.

SW-4, 05 NOV 2020 to 31 DEC 2020

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 26MAR20 (20086) (FAA)

TAKEOFF MINIMUMS:
Rwy 4, std. w/min. climb of 335' per NM to 6300 or 4800-3 for VCOA.
Rwy 13, std. w/min. climb of 350' per NM to 6500 or 4800-3 for VCOA.

DEPARTURE PROCEDURE:
Rwy 4, climb on heading 036° and BAM VORTAC R-036 outbound to 8200 before proceeding on course.
Rwy 13, climbing right turn heading 240° and BAM VORTAC R-210 outbound to 10000 before proceeding on course. **Rwy 22,** climb direct BAM VORTAC and proceed on BAM R-210 outbound to 10100 before proceeding on course.
Rwy 31, climb on heading 306° and BAM VORTAC R-329 outbound to 9100 before proceeding on course.

VCOA:
Rwys 4, 13, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Battle Mountain airport at or above 9200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning 129' from DER, 18' right of centerline, up to 45' AGL/4570' MSL.
Trees beginning 153' from DER, 55' left of centerline, up to 45' AGL/4570' MSL.
Rwy 13, vehicle on road 15' from DER, 171' right of centerline, 4558' MSL.
Sign 19' from DER, 250' left of centerline, 4' AGL/4537' MSL.
Tree, vehicle on road beginning 42' from DER, 23' right of centerline, up to 55' AGL/4566' MSL.
Trees beginning 116' from DER, 151' left of centerline, up to 45' AGL/4566' MSL.
Trees beginning 120' from DER, 47' right of centerline, up to 45' AGL/4570' MSL.
Trees beginning 497' from DER, 127' left of centerline, up to 45' AGL/4570' MSL.
Trees beginning 731' from DER, 71' right of centerline, up to 45' AGL/4573' MSL.
Trees beginning 956' from DER, 79' left of centerline, up to 45' AGL/4573' MSL.
Tree 1493' from DER, 667' right of centerline, 45' AGL/4576' MSL.
Rwy 22, tree, NAVAID, wind indicator beginning 101' from DER, 13' right of centerline, up to 45' AGL/4570' MSL.
Trees beginning 125' from DER, 133' left of centerline, up to 45' AGL/4570' MSL.
Trees beginning 499' from DER, 60' left of centerline, up to 45' AGL/4573' MSL.
Trees beginning 1270' from DER, 215' left of centerline, up to 45' AGL/4576' MSL.
Rwy 31, vegetation 33' from DER, 487' left of centerline, 4540' MSL.
Trees beginning 50' from DER, 80' right of centerline, up to 45' AGL/4573' MSL.
Trees beginning 124' from DER, 46' left of centerline, up to 45' AGL/4573' MSL.

BEAVER, UT

BEAVER MUNI (U52)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwys 7, 25, NA - Obstacles

Rwys 13, 31 , 2600-2¾ for VCOA.

VCOA:

Rwys 13, 31, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Beaver Muni at or above 8300, then climb to 10100 on MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210K until established on MLF VORTAC R-102.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vegetation 429' from DER, 46' right of centerline, 5877' MSL.
Tree 642' from DER, 49' right of centerline, 5886' MSL.
Terrain 1344' from DER, 802' right of centerline, 5899' MSL.
Terrain 1725' from DER, 938' left of centerline, 5909' MSL.
Terrain 1729' from DER, 762' right of centerline, 5913' MSL.
Terrain beginning 1854' from DER, 7' left of centerline, up to 5913' MSL.
Terrain 1857' from DER, 559' right of centerline, 5916' MSL.
Terrain beginning 1981' from DER, 209' left of centerline, up to 5922' MSL.
Terrain beginning 1984' from DER, 357' right of centerline, up to 5919' MSL.
Terrain beginning 2109' from DER, 412' left of centerline, up to 5929' MSL.
Terrain beginning 2112' from DER, 154' right of centerline, up to 5926' MSL.
Terrain 2240' from DER, 47' left of centerline, 5932' MSL.
Terrain 2366' from DER, 817' left of centerline, 5936' MSL.
Terrain 2367' from DER, 250' left of centerline, 5939' MSL.
Terrain beginning 2369' from DER, 316' right of centerline, up to 5932' MSL.
Terrain beginning 2494' from DER, 452' left of centerline, up to 5942' MSL.
Terrain beginning 2496' from DER, 114' right of centerline, up to 5939' MSL.
Terrain beginning 2623' from DER, 88' left of centerline, up to 5949' MSL.
Terrain beginning 2750' from DER, 291' left of centerline, up to 5955' MSL.
Terrain beginning 2753' from DER, 275' right of centerline, up to 5942' MSL.
Terrain beginning 2879' from DER, 493' left of centerline, up to 5962' MSL.
Terrain beginning 2881' from DER, 73' right of centerline, up to 5949' MSL.
Terrain beginning 3007' from DER, 129' left of centerline, up to 5965' MSL.
Terrain beginning 3135' from DER, 169' left of centerline, up to 5968' MSL.
Terrain beginning 3137' from DER, 235' right of centerline, up to 5952' MSL.
Terrain beginning 3265' from DER, 32' right of centerline, up to 5955' MSL.
Terrain 3268' from DER, 1166' right of centerline, 5959' MSL.
Terrain beginning 3394' from DER, 396' right of centerline, up to 5962' MSL.
Terrain beginning 3522' from DER, 194' right of centerline, up to 5965' MSL.
Terrain beginning 3650' from DER, 8' left of centerline, up to 5972' MSL.
Terrain beginning 3651' from DER, 558' right of centerline, up to 5968' MSL.
Terrain beginning 3779' from DER, 356' right of centerline, up to 5975' MSL.
Terrain beginning 3905' from DER, 413' left of centerline, up to 5975' MSL.
Terrain beginning 3906' from DER, 153' right of centerline, up to 5978' MSL.
Terrain 4033' from DER, 615' left of centerline, 5978' MSL.
Terrain beginning 4034' from DER, 48' left of centerline, up to 5981' MSL.
Terrain beginning 4035' from DER, 518' right of centerline, up to 5981' MSL.
Terrain beginning 4162' from DER, 251' left of centerline, up to 5985' MSL.
Terrain 4163' from DER, 315' right of centerline, 5985' MSL.
Terrain 4164' from DER, 882' right of centerline, 5988' MSL.
Terrain 4166' from DER, 1449' right of centerline, 6001' MSL.
Tree, terrain beginning 4272' from DER, 113' right of centerline, up to 6024' MSL.
Terrain 4417' from DER, 656' left of centerline, 5988' MSL.
Terrain beginning 4418' from DER, 89' left of centerline, up to 5991' MSL.
Terrain 4422' from DER, 1611' right of centerline, 6037' MSL.
Terrain beginning 4454' from DER, 274' right of centerline, up to 6039' MSL.
Terrain, tree beginning 4550' from DER, 72' right of centerline, up to 6050' MSL.
Tree, terrain beginning 4554' from DER, 130' left of centerline, up to 6016' MSL.
Terrain beginning 4678' from DER, 436' right of centerline, up to 6057' MSL.
Terrain 4806' from DER, 1003' right of centerline, 6060' MSL.

CON'T

SW-4, 05 NOV 2020 to 31 DEC 2020

BEAVER, UT (CON'T)

BEAVER MUNI (U52) (CON'T)

Rwy 13 (CON'T), terrain beginning 4807' from DER, 234' right of centerline, up to 6083' MSL.
Tree, terrain beginning 4892' from DER, 332' left of centerline, up to 6024' MSL.
Terrain, tree beginning 4935' from DER, 31' right of centerline, up to 6093' MSL.
Tree, terrain beginning 5122' from DER, 170' left of centerline, up to 6026' MSL.
Terrain, tree beginning 5191' from DER, 152' right of centerline, up to 6100' MSL.
Terrain, tree beginning 5444' from DER, 9' left of centerline, up to 6037' MSL.
Terrain beginning 5828' from DER, 49' left of centerline, up to 6050' MSL.
Terrain beginning 5961' from DER, 111' right of centerline, up to 6109' MSL.
Terrain beginning 1 NM from DER, 273' right of centerline, up to 6115' MSL.
Terrain beginning 1 NM from DER, 71' right of centerline, up to 6116' MSL.
Tree, terrain beginning 1 NM from DER, 435' right of centerline, up to 6117' MSL.
Terrain beginning 1 NM from DER, 232' right of centerline, up to 6126' MSL.
Tree, terrain beginning 1.1 NM from DER, 30' right of centerline, up to 6142' MSL.
Terrain, tree beginning 1.1 NM from DER, 192' right of centerline, up to 6146' MSL.
Terrain beginning 1.1 NM from DER, 10' left of centerline, up to 6070' MSL.
Terrain beginning 1.1 NM from DER, 151' right of centerline, up to 6159' MSL.
Terrain, tree beginning 1.2 NM from DER, 110' right of centerline, up to 6182' MSL.
Terrain beginning 1.2 NM from DER, 51' left of centerline, up to 6090' MSL.
Terrain, tree beginning 1.2 NM from DER, 272' right of centerline, up to 6201' MSL.
Terrain beginning 1.3 NM from DER, 91' left of centerline, up to 6109' MSL.
Terrain, tree beginning 1.3 NM from DER, 69' right of centerline, up to 6214' MSL.
Terrain beginning 1.3 NM from DER, 132' left of centerline, up to 6119' MSL.
Terrain, tree beginning 1.3 NM from DER, 29' right of centerline, up to 6237' MSL.
Terrain beginning 1.4 NM from DER, 190' right of centerline, up to 6257' MSL.
Terrain beginning 1.4 NM from DER, 11' left of centerline, up to 6126' MSL.
Terrain beginning 1.4 NM from DER, 150' right of centerline, up to 6264' MSL.
Terrain beginning 1.5 NM from DER, 109' right of centerline, up to 6267' MSL.
Terrain beginning 1.5 NM from DER, 52' left of centerline, up to 6139' MSL.
Terrain beginning 1.5 NM from DER, 271' right of centerline, up to 6277' MSL.
Terrain beginning 1.6 NM from DER, 93' left of centerline, up to 6159' MSL.
Terrain beginning 1.6 NM from DER, 295' left of centerline, up to 6195' MSL.
Terrain beginning 1.6 NM from DER, 27' right of centerline, up to 6280' MSL.
Terrain beginning 1.6 NM from DER, 134' left of centerline, up to 6211' MSL.
Terrain beginning 1.6 NM from DER, 2037' left of centerline, up to 6254' MSL.
Terrain beginning 1.7 NM from DER, 174' left of centerline, up to 6270' MSL.
Terrain beginning 1.7 NM from DER, 13' left of centerline, up to 6296' MSL.
Terrain beginning 1.7 NM from DER, 148' right of centerline, up to 6296' MSL.
Terrain beginning 1.8 NM from DER, 215' left of centerline, up to 6313' MSL.
Terrain beginning 1.8 NM from DER, 1552' left of centerline, up to 6336' MSL.
Terrain beginning 1.8 NM from DER, 1754' left of centerline, up to 6359' MSL.
Terrain beginning 1.8 NM from DER, 310' right of centerline, up to 6333' MSL.
Terrain beginning 1.8 NM from DER, 1390' left of centerline, up to 6375' MSL.
Terrain beginning 1.8 NM from DER, 1593' left of centerline, up to 6395' MSL.
Terrain beginning 1.8 NM from DER, 835' right of centerline, up to 6359' MSL.
Terrain beginning 1.9 NM from DER, 1795' left of centerline, up to 6408' MSL.
Terrain beginning 1.9 NM from DER, 1269' left of centerline, up to 6421' MSL.
Terrain beginning 2 NM from DER, 1310' left of centerline, up to 6441' MSL.
Terrain beginning 2 NM from DER, 664' left of centerline, up to 6447' MSL.

BLANDING, UT

BLANDING MUNI (BDG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 06FEB14 (14037) (FAA)

TAKEOFF MINIMUMS:

Rwy 35, 800-1 or std. with a min. climb of 350 feet per NM to 6700.

DEPARTURE PROCEDURE:

Rwy 17, turn left, thence...

Rwy 21, turn right, thence...

...climb to 9000 on heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

Rwy 35, turn right climb to 9000 via heading 090° and DVC R-223 to DVC VORTAC, then continue climb on course to MEA.

BOULDER CITY, NV

BOULDER CITY MUNI (BVU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05DEC19 (19339) (FAA)

TAKEOFF MINIMUMS:

Rwy 33, NA – Obstacles.

Rwy 9, std. w/min. climb of 280' per NM to 3700 or 2000-3 for VCOA.

Rwy 15, std. w/min. climb of 285' per NM to 3900 or 2000-3 for VCOA.

Rwy 27, std. w/min. climb of 450' per NM to 3000 or 2000-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 9, climbing right turn on heading 180° thence...

Rwy 15, climbing left turn on heading 140° thence...

Rwy 27, climbing left turn on heading 140°. Do not exceed 200 KIAS until turn completion, thence...

... intercept BLD VORTAC R-150, continue climb to 7600 on BLD VORTAC R-150 to LYNSY INT/BLD 21 DME.

VCOA:

Rwys 9, 15, 27, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross BLD VORTAC southeast bound at or above 4100 then on BLD VORTAC R-150 to LYNSY INT/BLD 21 DME.

TAKEOFF OBSTACLE NOTES:

Rwy 9, sign 124' from DER, 351' left of centerline, 4' AGL/2151' MSL.

Terrain, vegetation beginning 164' from DER, 198' left of centerline, up to 2155' MSL.

Vegetation, terrain beginning 401' from DER, 396' left of centerline, up to 3' AGL/2160' MSL.

Buildings, tanks beginning 776' from DER, 561' left of centerline, up to 25' AGL/2188' MSL.

Building 1116' from DER, 791' left of centerline, 25' AGL/2190' MSL.

Tree 1235' from DER, 593' left of centerline, 33' AGL/2198' MSL.

Trees beginning 1319' from DER, 348' left of centerline, up to 32' AGL/2200' MSL.

Trees, buildings, pole beginning 1523' from DER, 360' left of centerline, up to 38' AGL/2211' MSL.

Trees beginning 1791' from DER, 751' left of centerline, up to 46' AGL/2220' MSL.

Trees beginning 1956' from DER, 294' left of centerline, up to 48' AGL/2221' MSL.

Catenaries beginning 2205' from DER, 1083' left of centerline, up to 79' AGL/2259' MSL.

Catenaries, transmission lines beginning 3391' from DER, 208' left of centerline, up to 76' AGL/2267' MSL.

Transmission line, catenary beginning 3730' from DER, 3' right of centerline, up to 98' AGL/2254' MSL.

Tower 3984' from DER, 227' right of centerline, 118' AGL/2275' MSL.

Transmission line 3989' from DER, 228' right of centerline, 119' AGL/2276' MSL.

Tower 5076' from DER, 1016' left of centerline, 112' AGL/2301' MSL.

Tower 5545' from DER, 1916' left of centerline, 110' AGL/2330' MSL.

Rwy 15, terrain 3' from DER, 395' left of centerline, 2103' MSL.

Terrain, vertical point beginning 3' from DER, 112' left of centerline, up to 2105' MSL.

Rwy 27, terrain 5' from DER, 395' right of centerline, 2119' MSL.

Terrain, sign, buildings beginning 15' from DER, 187' right of centerline, up to 2121' MSL.

Fence, tree beginning 206' from DER, 170' right of centerline, up to 2' AGL/2123' MSL.

BRIGHAM CITY, UT

BRIGHAM CITY RGNL (BMC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6B 29MAR18 (18088) (FAA)

TAKEOFF MINIMUMS:

Rwy 35, NA

DEPARTURE PROCEDURE:

Rwy 17, climbing right turn heading 207° and OGD R-331 to OGD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17, poles 266' from DER, 558' right of centerline, 30' AGL/4258' MSL.

BRYCE CANYON, UT

BRYCE CANYON (BCE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10MAR11 (11069) (FAA)

DEPARTURE PROCEDURE:

use BRYCE DEPARTURE.

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02MAR17 (17061) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, standard w/min. climb of 285' per NM to 1700, or 1700-3 for VCOA.

Rwy 34, standard w/min. climb of 500' per NM to 5500, or 1700-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 16, climb on heading 164° and EED VORTAC R-331 to EED VORTAC.

Rwy 34, climb on heading 344° to 2200, then climbing right turn direct EED VORTAC. All aircraft climb in EED VORTAC holding pattern (E, right turns, 257° inbound) to cross EED VORTAC at or above MEA for direction of flight before proceeding on course.

VCOA:

Rwy 16, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC.

Rwy 34, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Laughlin/Bullhead Intl airport at or above 2300, then continue climbing on heading 155 and EED VORTAC R-335 to EED VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 16, grd 188' from DER, 83' left of centerline, 715' MSL.
Bush 349' from DER, 516' right of centerline, 722' MSL.
Grd 390' from DER, 528' left of centerline, 719' MSL.
Grd beginning 484' from DER, 481' left of centerline, up to 723' MSL.
Bush 532' from DER, 642' right of centerline, 727' MSL.
Grd beginning 568' from DER, 490' left of centerline, up to 727' MSL.
Bush 700' from DER, 663' right of centerline, 728' MSL.
Grd 798' from DER, 466' left of centerline, 729' MSL.
Bush, grd beginning 801' from DER, 541' left of centerline, up to 734' MSL.
Tree, bush, grd beginning 910' from DER, 557' left of centerline, up to 745' MSL.
Bush, grd beginning 1103' from DER, from 204' right to 1008' left of centerline, up to 777' MSL.
Grd, bush beginning 2134' from DER, 731' left of centerline, up to 778' MSL.
Grd, bush beginning 2214' from DER, 870' left of centerline, up to 786' MSL.
Grd beginning 2288' from DER, 801' left of centerline, up to 792' MSL.
Grd, tree beginning 2328' from DER, 724' left of centerline, up to 797' MSL.
Grd beginning 2811' from DER, 1128' left of centerline, up to 798' MSL.
Grd beginning 2915' from DER, 1166' left of centerline, up to 800' MSL.
Grd beginning 3022' from DER, 1185' left of centerline, up to 804' MSL.
Grd beginning 3123' from DER, 1221' left of centerline, up to 809' MSL.
Grd beginning 3219' from DER, 1257' left of centerline, up to 814' MSL.
Grd beginning 3325' from DER, 1284' left of centerline, up to 818' MSL.
Grd beginning 3428' from DER, 1210' left of centerline, up to 821' MSL.
Grd beginning 3528' from DER, 1241' left of centerline, up to 824' MSL.
Grd, bush, tank beginning 3632' from DER, 1157' left of centerline, up to 825' MSL.
Tank 4810' from DER, 1528' left of centerline, 848' MSL.
Grd 5412' from DER, 1872' left of centerline, 852' MSL.
Grd, bushes beginning 5511' from DER, 926' left of centerline, up to 865' MSL.
Bushes beginning 5742' from DER, 1483' left of centerline, up to 883' MSL.
Grd, bushes beginning 5774' from DER, 793' left of centerline, up to 891' MSL.
Bush 5852' from DER, 1933' left of centerline, 904' MSL.
Grd, pole, bushes beginning 5856' from DER, 24' left of centerline, up to 920' MSL.
Trees, bushes, grd, tank beginning 1.2 NM from DER, left and right of centerline, up to 962' MSL.
Trees, bushes, grd beginning 1.3 NM from DER, 1' left of centerline, up to 985' MSL.
Bush 1.4 NM from DER, 1941' left of centerline, 993' MSL.
Bushes, grd, tank, pole beginning 1.5 NM from DER, 1919' left of centerline, up to 1036' MSL.
Bushes, vehicles on road, trees, pole beginning 1.9 NM from DER, 2218' left of centerline, up to 1086' MSL.
Tanks, bushes, pole beginning 2.2 NM from DER, 3103' left of centerline, up to 1121' MSL.

Rwy 34, airfield light 40' from DER, 148' right of centerline, 627' MSL.
T-l twr, tree beginning 1818' from DER, 620' right of centerline, up to 65' AGL/687' MSL.
Pole, tree beginning 2214' from DER, 629' right of centerline, up to 709' MSL.
Pole, tree beginning 2638' from DER, 646' right of centerline, up to 719' MSL.
Pole, bushes, grd beginning 3054' from DER, 663' right of centerline, up to 741' MSL.
Pole, bush, bldg, grd, vehicles on road beginning 3661' from DER, 691' right of centerline, up to 773' MSL.
Poles, bushes, grd, vehicles on road, trees, bldgs, flagpole beginning 4024' from DER, 705' right of centerline, up to 796' MSL.
Comm twr 5197' from DER, 1015' right of centerline, 816' MSL.
Comm twr 5278' from DER, 1149' right of centerline, 821' MSL.
T-l twr 1.6 NM from DER, 719' left of centerline, 894' MSL.
Grd beginning 1.8 NM from DER, 3419' right of centerline, up to 963' MSL.
Grd 2.1 NM from DER, 3212' right of centerline, 1018' MSL.
Grd, tree beginning 2.2 NM from DER, 1351' right of centerline, up to 1079' MSL.
Grd 2.6 NM from DER 3025' right of centerline, 2010' MSL.

CARSON CITY, NV

CARSON (CXP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20NOV08 (08325) (FAA)

TAKEOFF MINIMUMS:

Rwy 27, NA-obstacles.

DEPARTURE PROCEDURE:

Rwy 9, use JIMPA DEPARTURE.

CASA GRANDE, AZ

CASA GRANDE MUNI (CGZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1B 06FEB14 (14037) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, 300-1 or std. w/ min. climb of 354' per NM to 1700.

DEPARTURE PROCEDURE:

Rwy 5, climbing right turn direct TFD VORTAC, thence...

Rwy 23, climb direct TFD VORTAC, thence...

...continue climb in holding pattern (SW, right turns, 048° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 5, pole 4034' from DER, 805' left of centerline, 109' AGL/1593' MSL.

CEDAR CITY, UT

CEDAR CITY RGNL (CDC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 4200-3 for VCOA.

Rwy 20, std. w/min. climb of 290' per NM to 7300 or 4200-3 for VCOA.

Rwy 26, std. w/min. climb of 255' per NM to 7000 or 4200-3 for VCOA.

DEPARTURE PROCEDURE:

Rwys 2, 8, climbing left turn direct EHK VOR/DME, thence...

Rwys 20, 26, climbing right turn direct EHK VOR/DME, thence...

...continue climb on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight.

VCOA:

Rwys 8, 20, 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cedar City Rgnl airport at or above 9700, then proceed on EHK VOR/DME R-180 direct EHK VOR/DME, then on EHK VOR/DME R-278 until reaching the MEA/MCA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 2, sign abeam DER, 313' right of centerline, 3' AGL/5604' MSL.
Terrain and bush beginning 145' from DER, 420' right of centerline, up to 5608' MSL.
Rwy 8, terrain 3' from DER, 112' right of centerline, 5622' MSL.
Terrain 18' from DER, 221' right of centerline, 5623' MSL.
Terrain beginning 30' from DER, 178' right of centerline, up to 5624' MSL.
Terrain 122' from DER, 473' right of centerline, 5626' MSL.
Bush 125' from DER, 234' left of centerline, 5628' MSL.
Terrain 193' from DER, 491' right of centerline, 5627' MSL.
Fence and vehicles on road beginning 638' from DER, 33' right of centerline, up to 10' AGL/5639' MSL.
Vehicles on road 686' from DER, 136' right of centerline, 5640' MSL.
Vehicles on road 701' from DER, 242' right of centerline, 5641' MSL.
Transmission tower 2865' from DER, 369' right of centerline, 51' AGL/5707' MSL.
Transmission tower 2902' from DER, 260' right of centerline, 53' AGL/5710' MSL.
Pole and transmission towers beginning 2918' from DER, 70' right of centerline, up to 62' AGL/5719' MSL.
Transmission towers beginning 3004' from DER, 39' left of centerline, up to 49' AGL/5705' MSL.
Pole 3175' from DER, 564' left of centerline, 56' AGL/5710' MSL.
Rwy 20, runway light 10' from DER, 54' right of centerline, 2' AGL/5579' MSL.
Terrain 12' from DER, 98' left of centerline, 5579' MSL.
Runway light and sign beginning 31' from DER, 275' left of centerline, up to 3' AGL/5583' MSL.
Pole 941' from DER, 446' right of centerline, 34' AGL/5604' MSL.
Pole 1066' from DER, 363' right of centerline, 38' AGL/5608' MSL.
Elevator and tank beginning 2081' from DER, 1051' left of centerline, up to 105' AGL/5690' MSL.
Tree 3789' from DER, 1512' left of centerline, 5692' MSL.
Tree 4004' from DER, 1526' left of centerline, 5693' MSL.
Tree 4265' from DER, 1530' left of centerline, 5718' MSL.
Trees beginning 4278' from DER, 1546' left of centerline, up to 5721' MSL.
Trees beginning 4526' from DER, 1533' left of centerline, up to 5733' MSL.
Trees beginning 4858' from DER, 1520' left of centerline, up to 5737' MSL.
Tree 5456' from DER, 1835' left of centerline, 5748' MSL.
Building and tree beginning 5497' from DER, 1518' left of centerline, up to 21' AGL/5759' MSL.
Pole and tree beginning 5737' from DER, 1543' left of centerline, up to 20' AGL/5769' MSL.
CON'T

CEDAR CITY, UT (CON'T)

CEDAR CITY RGNL (CDC) (CON'T)

Rwy 20 (CON'T), Pole and tree beginning 5964' from DER, 1545' left of centerline, up to 20' AGL/5779' MSL.
Trees beginning 1 NM from DER, 1665' left of centerline, up to 5783' MSL.
Tree 1.2 NM from DER, 2080' left of centerline, 5800' MSL.
Trees beginning 1.2 NM from DER, 2049' left of centerline, up to 5814' MSL.
Trees beginning 1.3 NM from DER, 2107' left of centerline, up to 5836' MSL.
Trees beginning 1.3 NM from DER, 2244' left of centerline, up to 5840' MSL.
Trees beginning 1.3 NM from DER, 2048' left of centerline, up to 5849' MSL.
Trees beginning 1.3 NM from DER, 2283' left of centerline, up to 5852' MSL.
Trees beginning 1.4 NM from DER, 2301' left of centerline, up to 5871' MSL.
Tree 1.4 NM from DER, 2599' left of centerline, 5874' MSL.
Trees beginning 1.4 NM from DER, 2436' left of centerline, up to 5895' MSL.
Pole and tree beginning 1.6 NM from DER, 2822' left of centerline, up to 50' AGL/5944' MSL.
Pole 2.3 NM from DER, 3922' left of centerline, 34' AGL/5952' MSL.
Rwy 26, sign 71' from DER, 167' right of centerline, 6' AGL/5584' MSL.
Pole 1375' from DER, 319' left of centerline, 44' AGL/5614' MSL.

CHANDLER, AZ

CHANDLER MUNI (CHD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18SEP14 (14261) (FAA)

DEPARTURE PROCEDURE:

Rwys 4L, 4R, climbing left turn heading 220° to intercept TFD VORTAC R-350 southbound to TFD VORTAC.
Rwys 22L, 22R, climbing left turn heading 190° to intercept TFD VORTAC R-350 southbound to TFD VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 4L, antenna on building 69' from DER, 515' left of centerline, 25' AGL/1281' MSL.
Tower 981' from DER, 615' left of centerline, 80' AGL/1319' MSL.
Trees and poles beginning 1100' from DER, 458' left of centerline, up to 30' AGL/1272' MSL.
Rwy 4R, poles beginning 1298' from DER, 56' left of centerline, up to 36' AGL/1283' MSL.
Rwy 22L, tree 336' from DER, 511' right of centerline, 15' AGL/1250' MSL.
Tree 988' from DER, 756' left of centerline, 30' AGL/1266' MSL.
Rwy 22R, building 30' from DER, 441' right of centerline, 24' AGL/1254' MSL.
Vehicles beginning 199' from DER, 271' right of centerline, up to 15' AGL/1246' MSL.
Poles and trees beginning 471' from DER, 45' left of centerline, up to 36' AGL/1290' MSL.
Trees and poles beginning 1088' from DER, 50' right of centerline, up to 36' AGL/1274' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20AUG15 (15232) (FAA)

Rwys 4L, 4R, 22L, 22R, heading as assigned by ATC.

STELLAR AIRPARK (P19)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 06DEC18 (18340) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn heading 150° thence...
Rwy 35, climbing right turn heading 190° thence...
... Intercept TFD VORTAC R-350 southbound to TFD VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 17, pole 648' from DER, 482' left of centerline, 52' AGL/1212' MSL.
Pole 656' from DER, 190' left of centerline, 52' AGL/1213' MSL.
Poles beginning 661' from DER, 39' right of centerline, up to 34' AGL/1196' MSL.
Poles beginning 671' from DER, 420' right of centerline, up to 52' AGL/1216' MSL.
Transmission line, sign beginning 869' from DER, 288' right of centerline, up to 50' AGL/1224' MSL.
Sign 906' from DER, 260' left of centerline, 42' AGL/1214' MSL.
Rwy 35, pole 72' from DER, 357' left of centerline, 30' AGL/1208' MSL.
Building 777' from DER, 300' right of centerline, 30' AGL/1218' MSL.
Building 1282' from DER, 767' right of centerline, 45' AGL/1233' MSL.

CLIFTON/MORENCI, AZ

GREENLEE COUNTY (CFT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

DEPARTURE PROCEDURE:

Use SAN SIMON DEPARTURE.

COLORADO CITY, AZ

COLORADO CITY MUNI (AZC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, NA-Terrain.

Rwy 20, 300-2¼ or std. w/min. climb of 203' per NM to 5300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1200' prior to DER.

DEPARTURE PROCEDURE:

Rwy 11, climbing right turn, thence...

Rwy 20, climbing left turn, thence...

Rwy 29, climbing left turn, thence...

...Intercept bearing 165° from AZC NDB to 7400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, vegetation beginning 16' from DER, 213' left of centerline, up to 4861' MSL.

Rwy 20, tree 27' from DER, 275' left of centerline, 4843' MSL.

Vegetation 45' from DER, 26' right of centerline, 4843' MSL.

Vehicles on road beginning 67' from DER, 389' left of centerline, up to 4853' MSL.

Tree 1.8 NM from DER, 2971' right of centerline, 5118' MSL.

Rwy 29, sign and tree beginning 15' from DER, 123' right of centerline, up to 5' AGL/4850' MSL.

Vegetation 60' from DER, 46' left of centerline, 4849' MSL.

COOLIDGE, AZ

COOLIDGE MUNI (P08)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10OCT96 (96284) (FAA)

DEPARTURE PROCEDURE:

Rwys 5, 35, climbing left turn heading 280° to intercept TFD R-063, then via R-063 to TFD VORTAC before proceeding on course.

Rwy 17, climbing right turn heading 240° to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

Rwy 23, climb runway heading to intercept TFD R-090, then via R-090 to TFD VORTAC before proceeding on course.

COTTONWOOD, AZ

COTTONWOOD (P52)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

Use MINGY DEPARTURE.

DAVIS-MONTHAN AFB (KDMA)

TUCSON, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15AUG19 (19227)

TAKEOFF MINIMUMS:

Rwy 12, 5300-3, or std w/min climb of 240'/NM to 3200.

DEPARTURE PROCEDURE:

Rwy 12, climb to 10,000 on track 125°, intercept DMA R-120 for RADAR vectors.

Rwy 30, climb to 6500 on track 305°, intercept DMA R-312 for RADAR vectors.

TAKEOFF OBSTACLE NOTES:

Rwy 12, terrain 8' from DER, 424' left of cntrln, 2707' MSL.

Terrain 0' from DER, 500' left of cntrln, 2707' MSL.

Aircraft tail 81' from DER, 572' left of cntrln, 39' AGL/2748' MSL.

Pole 3511' from DER, 1052' left of cntrln, 45' AGL/2776' MSL.

Vehicle 1710' from DER, 195' right of cntrln, 10' AGL/2727' MSL.

Vehicle 1498' from DER, 787' left of cntrln, 10' AGL/2727' MSL.

Terrain 1.1 NM from DER, 1409' left of cntrln, 130' AGL/2892' MSL.

Terrain 5880' from DER, 2034' left of cntrln, 130' AGL/2886' MSL.

Rwy 30, terrain 0' from DER, 500' left of cntrln, 2591' MSL.

Terrain 0' from DER, 500' right of cntrln, 2592' MSL.

Terrain 13' from DER, 494' right of cntrln, 2592' MSL.

Terrain 34' from DER, 220' left of cntrln, 130' AGL/2720' MSL.

Aircraft tail 34' inward of DER, 510' right of cntrln, 39' AGL/2630' MSL.

Pylon 3296' from DER, 1373' left of cntrln, 69' AGL/2642' MSL.

Pylon 3415' from DER, 1170' left of cntrln, 98' AGL/ 2665' MSL.

Pylon 3771' from DER, 882' left of cntrln, 98' AGL/2665' MSL.

Pylon 4112' from DER, 607' left of cntrln, 98' AGL/2664' MSL.

Pylon 4455' from DER, 333' left of cntrln, 98' AGL/2672' MSL.

DELTA, UT

DELTA MUNI (DTA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. with a min. climb of 412' per NM to 6600, or 1800-3 for climb in visual conditions. VCOA procedure NA at night.

DEPARTURE PROCEDURE:

Rwy 35, Climb heading 346 to 5800, then climbing left turn heading 180 and DTA VORTAC R-310 to DTA VORTAC, thence…

Rwy 17, Climb on DTA VORTAC R-347 to DTA VORTAC, thence…

...continue climb in DTA VORTAC holding pattern (hold s, lt, 004.00 inbound) to cross DTA VORTAC at or above MEA/MCA for route of flight.

VCOA:

Rwy 17, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Delta Municipal airport southbound at or above 6400, then on DTA VORTAC R-347 to DTA VORTAC, thence…

...continue climb in DTA VORTAC holding pattern (hold s, lt, 004° inbound) to cross DTA VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 35, terrain 17' from DER, 66' left of centerline 4760' MSL.
Vehicle on road 227' from DER, 457' right of centerline, 15' AGL/4771' MSL.
Rwy 17, terrain 12' from DER, 462' left of centerline 4757' MSL.
Bush 105' from DER, 446' left of centerline 4759' MSL.

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL (DUG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 09FEB12 (12040) (FAA)

DEPARTURE PROCEDURE:

Rwys 8, 17, climbing right turn on heading 330° to intercept DUG VORTAC R-286 to 9500.
Rwy 26, climbing right turn to intercept DUG VORTAC R-286 to 9500.
Rwy 35, climbing left turn to intercept DUG VORTAC R-286 to 9600.

TAKEOFF OBSTACLE NOTES:

Rwy 8, trees and terrain beginning 145' from DER, 51' left of centerline, up to 8' AGL/4220' MSL.
Trees and terrain beginning 22' from DER, 247' right of centerline, up to 13' AGL/4197' MSL.
Rwy 17, trees and terrain beginning 91' from DER, 76' left of centerline, up to 5' AGL/4118' MSL.
Trees and terrain beginning 12' from DER, 146' right of centerline, up to 5' AGL/4115' MSL.
Rwy 26, tree and terrain beginning 16' from DER, 233' left of centerline, up to 5' AGL/4167' MSL.
Trees and terrain beginning 17' from DER, 32' right of centerline, up to 7' AGL/4167' MSL.
Rwy 35, trees and terrain beginning 118' from DER, 15' left of centerline, up to 6' AGL/4190' MSL.
Tree and terrain beginning 75' from DER, 100' right of centerline, up to 11' AGL/4200' MSL.

DUCHESNE, UT

DUCHESNE MUNI (U69)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10OCT19 (19283) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, NA - Environmental.
Rwy 35, std. w/min. climb of 235' per NM to 6900 or 1100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn direct MTU VOR/DME, thence...
Rwy 35, climbing right turn direct MTU VOR/DME, thence...

...continue climb in MTU VOR/DME holding pattern (hold northeast, right turns, 213° inbound) to cross MTU VOR/DME at or above MEA for route of flight.

VCOA:

Rwy 35, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Duchesne Muni Airport at or above 6800 then on MTU VOR/DME R-269 to MTU VOR/DME. Continue climb in MTU VOR/DME holding pattern (hold Northeast, right turns, 213° inbound) to cross MTU VOR/DME at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 35, vehicles on road beginning 315' from DER, 95' right of centerline, up to 15' AGL/5844' MSL.
Vehicles on road beginning 327' from DER, 29' left of centerline, up to 15' AGL/5854' MSL.
Equipment 415' from DER, 515' left of centerline, 17' AGL/5856' MSL.
Building 876' from DER, 617' left of centerline, 30' AGL/5869' MSL.
Pole 1048' from DER, 682' left of centerline, 40' AGL/5889' MSL.

ELKO, NV

ELKO RGNL (EKO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 26MAY16 (16147) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 30, NA-ATC.

Rwy 6, std. w/min. climb of 500' per NM to 7200, or 2000-3 for climb in visual conditions.

Rwy 24, std. w/min. climb of 390' per NM to 8400, or 2000-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 6, climb heading 057° to 6500, then climbing right turn direct BQU VOR/DME, thence. . .

Rwy 24, climb heading 237° to 6100, then climbing left turn direct BQU VOR/DME, thence. . . .

. . . .Continue climb in BQU VOR/DME holding pattern (hold south, left turns, 340° inbound) to cross BQU VOR/DME at or above MEA/MCA for route of flight.

VCOA:

Rwy 6, 24, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Elko Rgnl airport at or above 7000, then proceed to BQU VOR/DME and continue climb in BQU VOR/DME holding pattern (hold south, left turns, 340° inbound) to cross BQU VOR/DME at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 6, OL on ltd wsk 253' from DER, 155' right of centerline, 5095' MSL.

Lt poles, beginning 277' from DER, 332' right of centerline, up to 5097' MSL.

Trees, buildings, and ants on ol buildings, beginning 676' from DER, 209' right of centerline, up to 5111' MSL.

Pole 765' from DER, 422' left of centerline, 5110' MSL.

Ols on poles, beginning 903' from DER, 435' left of centerline, up to 5130' MSL.

Trees, poles, and ols on poles, beginning 961' from DER, 130' left of centerline, up to 5207' MSL.

Ant 3007' from DER, 84' right of centerline, 5165' MSL.

Tree 3676' from DER, 251' right of centerline, 5191' MSL.

Rwy 24, vehicles on road, beginning 672' from DER, 315' right of centerline, up to 5075' MSL.

Poles, trees beginning 1179' from DER, 171' right of centerline, up to 36' AGL/5100' MSL.

Poles, beginning 1243' from DER, 663' left of centerline, up to 39' AGL/5085' MSL.

Signs, beginning 1566' from DER, 714' right of centerline, up to 5128' MSL.

Signs, elevators, silos beginning 2155' from DER, 437' right of centerline, up to 44' AGL/5132' MSL.

ELY, NV

ELY AIRPORT-YELLAND FIELD (ELY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JUN11 (11181) (FAA)

DEPARTURE PROCEDURE:

Use ELY DEPARTURE.

EUREKA, NV

EUREKA (05U)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, NA-Terrain.

DEPARTURE PROCEDURE:

use MINES (RNAV) DEPARTURE.

FALLON, NV

FALLON MUNI (FLX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwys 13, 31, NA - Environmental

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn, thence...

Rwy 21, climbing right turn, thence...

... to 9300 direct HZN VORTAC, continue climb in HZN VORTAC holding pattern (hold west, left turn 075° inbound) cross HZN VORTAC at or above 9300 before proceeding on course, continue climb to MEA or assigned altitude.

TAKEOFF OBSTACLE NOTES:

Rwy 3, sign, trees beginning 9' from DER, 37' left of centerline, up to 5' AGL/3966' MSL.

Tree 121' from DER, 173' right of centerline, 3966' MSL.

Traverse way beginning 134' from DER, 357' right of centerline, up to 3972' MSL.

Trees beginning 146' from DER, 469' left of centerline, up to 6' AGL/3969' MSL.

Traverse way, tree beginning 315' from DER, 232' right of centerline, up to 3974' MSL.

Tree 1068' from DER, 199' left of centerline, 37' AGL/3995' MSL.

Trees beginning 1086' from DER, 208' left of centerline, up to 4002' MSL.

Tree 1093' from DER, 193' right of centerline, 38' AGL/3992' MSL.

Trees, pole beginning 1214' from DER, 306' left of centerline, up to 61' AGL/4018' MSL.

Trees beginning 2148' from DER, 819' left of centerline, up to 4023' MSL.

CON'T

FALLON, NV (CON'T)

FALLON MUNI (FLX) (CON'T)

Rwy 3 (CON'T), tree 2319' from DER, 763' left of centerline, 58' AGL/4024' MSL.
Trees beginning 2960' from DER, 663' left of centerline, up to 97' AGL/4054' MSL.
Rwy 21, trees, terrain beginning 31' from DER, 150' left of centerline, up to 3969' MSL.
Traverse way 32' from DER, 497' right of centerline, 3981' MSL.
Pole 112' from DER, 397' right of centerline, 26' AGL/3991' MSL.
Tree 139' from DER, 401' left of centerline, 4' AGL/3970' MSL.
Poles, traverse way, vegetation, building beginning 149' from DER, 19' right of centerline, up to 36' AGL/4002' MSL.
Traverse way beginning 380' from DER, 308' left of centerline, up to 3984' MSL.
Traverse way beginning 525' from DER, 22' left of centerline, up to 3985' MSL.
Tree 1286' from DER, 785' right of centerline, 48' AGL/4016' MSL.
Tree 1407' from DER, 840' right of centerline, 57' AGL/4025' MSL.
Pole 1813' from DER, 798' left of centerline, 39' AGL/4013' MSL.
Tree 1896' from DER, 869' right of centerline, 76' AGL/4040' MSL.

FALLON NAS (VAN VOORHIS FIELD) (KNFL)

FALLON, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (19003)

TAKEOFF MINIMUMS:

Rwys 13L/R, diverse departures authorized 131° CW 311°, std. w/min climb rate of 245'/NM to 7200.
Rwys 31L/R, diverse departures authorized 131° CW 083°, std. w/min climb rate of 252'/NM to 9800.
Rwy 7, diverse departures authorized, std. w/min climb rate of 295'/NM to 12200.
Rwy 25, diverse departures authorized 132° CW 073°, std. w/min climb rate of 250'/NM to 12200.

FILLMORE, UT

FILLMORE MUNI (FOM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 18NOV10 (10322) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, std. w/ min. climb of 250' per NM to 6200, or 1800-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 4, climbing left turn to 9600 on DTA R-141 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight or for climb in visual conditions cross Fillmore Muni airport Northwest bound at or above 6600, then climb to 9600 on DTA R-146 to DTA VORTAC. Continue climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight.
Rwy 22, climbing right turn to 9600 on DTA R-152 to DTA VORTAC, climb in DTA VORTAC holding pattern (South, left turns, 004° inbound) to cross DTA VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 4, light 60' from DER, 393' left of centerline, 8' AGL/4987' MSL.
Windsock 129' from DER, 301' left of centerline, 21' AGL/5000' MSL.
Rising terrain 132' from DER, 385' right of centerline, 4989' MSL.
Fence beginning 138' from DER, 174' right of centerline, up to 15' AGL/4996' MSL.
Buildings beginning 259' from DER, 455' right of centerline, up to 13' AGL/5012' MSL.
Beacon 311' from DER, 505' left of centerline, 52' AGL/5031' MSL.
Trees beginning 333' from DER, 242' left of centerline, up to 37' AGL/5034' MSL.
Vehicle on road beginning 472' from DER, 608' left to 1093' right of centerline, up to 35' AGL/5073' MSL.
Pole 488' from DER, 620' left of centerline, 38' AGL/5037' MSL.
Windmeter, 623' from DER, 342' left of centerline, 9' AGL/5008' MSL.
Building 873' from DER, 196' left of centerline, 17' AGL/5016' MSL.
Rwy 22, fence 97' from DER, 302' left of centerline, 15' AGL/4916' MSL.
Vehicle on road beginning 228' from DER, 398' left of centerline, up to 9' AGL/4928' MSL.

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM (FLG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 06FEB14 (14037) (FAA)

DEPARTURE PROCEDURE:

Rwy 3, turn right.
Rwy 21, turn left. Aircraft departing FLG R-160 CW R-175 climb on course. All others climb southbound on FLG R-172 to 9000, then climbing left turn direct FLG VOR/DME.

TAKEOFF OBSTACLE NOTES:

Rwy 21, trees beginning 73' from DER, left and right of centerline, up to 85' AGL/7065' MSL.

FORT HUACHUCA SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF (FHU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 21, NA-terrain.

Rwy 26, std. w/min. climb of 335' per NM to 7300', or 2800-3 for VCOA

DEPARTURE PROCEDURE:

Rwys 3, 8, 12, climbing left turn... thence.

Rwys 26, 30, climbing right turn... thence.

...all aircraft, intercept FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME, continue climb in TOMBS holding pattern (hold north, left turns, 201° inbound) to 9500 before proceeding on course.

VCOA:

Rwy 26, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sierra Vista Muni-Libby AAF airport at or above 7400' MSL then intercept and proceed on FHU VOR/DME R-021 to TOMBS INT/FHU 12.76 DME. Continue climb in TOMBS holding pattern (hold north, left turns, 201° inbound) to 9500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, trees 253' from DER, 130' left of centerline, 10' AGL/4595' MSL.
Tree 199' from DER, 271' right of centerline, 10' AGL/4595' MSL.

Rwy 8, reflector, 121' from DER, 174' right of centerline, 4' AGL/4603' MSL.

Rwy 12, terrain beginning 22' from DER, 93' right of centerline, up to 4639' MSL.

Rwy 26, general utility 100' from DER, 173' right of centerline, 20' AGL/4723' MSL.
General utility 101' from DER, 175' left of centerline, 26' AGL/4730' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 13NOV14 (14317) (FAA)

Rwys 3,12, heading as assigned by ATC.

Rwy 8, heading as assigned by ATC. Requires minimum climb of 300' per NM to 8600.

Rwy 26, heading as assigned by ATC. Requires minimum climb of 330' per NM to 8100.

Rwy 30, heading as assigned by ATC. Requires minimum climb of 330' per NM to 8700.

GLENDALE, AZ

GLENDALE MUNI (GEU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use DRAKE (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 1, light on blast fence 4' from DER, 130' left of centerline, up to 10' AGL/1,088' MSL.
Trees beginning 124' from DER, left and right of centerline, up to 30' AGL/1,104' MSL.
Vehicles beginning 299' from DER, 80' right of centerline, up to 15' AGL/1,091' MSL.
Poles and trees beginning 400' from DER, 197' right of centerline, up to 75' AGL/1,144' MSL.

Rwy 19, trees beginning 281' from DER, 331' left of centerline, up to 33' AGL/1,060' MSL.

GLOBE, AZ

SAN CARLOS APACHE (P13)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10APR08 (08101) (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR (GYR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use POTER (RNAV) DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, poles beginning 159' from DER, 267' right of centerline, up to 47' AGL/1,015' MSL.
Building 1512' from DER, 828' right of centerline, 48' AGL/1,014' MSL.
Tree 1,957' from DER, 551' right of centerline, up to 49' AGL/1,019' MSL.

Rwy 21, transmission tower 2610' from DER, 1,078' left of centerline, 125' AGL/1,047' MSL.
Transmission tower 3,190' from DER, 311' left of centerline, 112' AGL/1,031' MSL.
Pole 3,193' from DER, 308' left of centerline, 112' AGL/1,030' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 21JUL16 (16203) (FAA)

Rwy 3, 21, heading as assigned by ATC.

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK (GCN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30AUG07 (07242) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, NA-environmental.

DEPARTURE PROCEDURE:

Rwy 21, use GRAND DEPARTURE.

VALLE (40G)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 18SEP14 (14261) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, Climb on a heading between 188° CW to 091° from DER.

Rwy 19, climb on a heading between 170° CW to 008° from DER.

HAWTHORNE, NV

HAWTHORNE INDUSTRIAL (HTH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14SEP17 (17257)

TAKEOFF MINIMUMS:

Rwy 15, 33, NA – ATC.

Rwy 10, 28, 4200 - 3 for VCOA.

VCOA:

Rwy 10, 28, obtain ATC approval for VCOA when requesting IFR clearance. climb in visual conditions to cross Hawthorne Industrial airport at or above 8300 then climb to 11500 on MVA R-251 to MVA VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10, ground beginning at DER, 53' right of centerline, up to 4232' MSL.
Ground 139' from DER, 39' right of centerline, 4234' MSL.
Ground 145' from DER, 387' right of centerline, 4236' MSL.
Bush 193' from DER, 480' right of centerline, 2' AGL/4238' MSL.
Bush 363' from DER, 576' right of centerline, 3' AGL/4242' MSL.
Bush 557' from DER, 555' right of centerline, 1' AGL/4245' MSL.
Rwy 28, ground 1' from DER, 388' left of centerline, 4183' MSL.
Bush 10' from DER, 488' left of centerline, 2' AGL/4185' MSL.

HEBER, UT

HEBER VALLEY (HCR)

TAKEOFF MINIMUMS AND (OBSTACLE)DEPARTURE PROCEDURES

AMDT 4A 15AUG19 (19227) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 22, 5800-5 for VCOA. VCOA NA at night.

VCOA:

Rwys 4, 22, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Heber Valley airport at or above 11300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, fence abeam DER, 301' left of centerline, 16' AGL/5647' MSL.
Pole 24' from DER, 404' left of centerline, up to 33' AGL/5659' MSL.
Bush 23' from DER, 61' left of centerline, up to 5639' MSL.
Terrain 109' from DER, 428' right of centerline, 5642' MSL.
Multiple poles, tree, beginning 200' from DER, 269' left of centerline, up to 36' AGL/5666' MSL.
Tree, fence beginning 252' from DER, 249' right of centerline, up to 5659' MSL.
Pole 319' from DER, 404' left of centerline, up to 5670' MSL.
Tree, pole beginning 662' from DER, 404' left of centerline, up to 5681' MSL.
Tree, sign, pole beginning 710' from DER, 281' left of centerline, up to 5682' MSL.
Building beginning 1066' from DER, 42' right of centerline, up to 5674' MSL.
Tree, pole beginning 1120' from DER, 181' right of centerline, up to 5689' MSL.
Tree, pole beginning 1281' from DER, 278' right of centerline, up to 5690' MSL.
Trees beginning 1773' from DER, 238' left of centerline, up to 5689' MSL.
Tree, pole beginning 1901' from DER, 399' right of centerline, up to 5708' MSL.
Tree 1909' from DER, 498' left of centerline, 5692' MSL.
Rwy 22, pole abeam DER, 292' right of centerline, 16' AGL/5592' MSL.
Fence, vegetation, terrain 13' from DER, 225' left of centerline, up to 9' AGL/5597' MSL.
Trees beginning 608' from DER, 384' right of centerline, up to 5611' MSL.
Pole 829' from DER, 474' left of centerline, 22' AGL/5605' MSL.
Pole 988' from DER, 634' left of centerline, up to 33' AGL/5617' MSL.
Tree 1672' from DER, 777' left of centerline, 5628' MSL.
Terrain beginning 1.1 NM from DER, 1752' left of centerline, up to 5964' MSL.
Tree 1.3 NM from DER, 2420' left of centerline, 5821' MSL.
Terrain, trees beginning 1.4 NM from DER, 1124' left of centerline, up to 6128' MSL.
Terrain, trees beginning 1.5 NM from DER, 372' left of centerline, up to 6411' MSL.

HILL AFB (KHIF)
OGDEN, UT
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
Diverse departures not authorized, use radar vectors or published Departure Procedures (DP) for obstacle avoidance.

HUNTINGTON, UT
HUNTINGTON MUNI (69V)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2B 19JUL18 (18200) (FAA)
TAKEOFF MINIMUMS:
Rwys 12, 18, 26, 30, 36, NA-Environmental.
DEPARTURE PROCEDURE:
Rwy 8, climbing left turn direct PUC VOR/DME...
...continue climb in PUC VOR/DME holding pattern (hold south, RT, 009° inbound) to MEA for direction of flight.
TAKEOFF OBSTACLE NOTES:
Rwy 8, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL.

KANAB, UT
KANAB MUNI (KNB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 11FEB10 (10042) (FAA)
TAKEOFF MINIMUMS:
Rwy 1, std. with min. climb of 742' per NM to 6600, or 1100-3 with min. climb of 535' per NM to 6900, or 2400-3 for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 19, climb heading 171° to 6800 before turning.
Rwy 1, climb heading 006° to 6100 before turning, or for climb in visual conditions, cross Kanab Muni airport at or above 7100 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 1, vent on building 554' from DER, 370' left of centerline, 16' AGL/4884' MSL.
Trees beginning 1138' from DER, 302' left of centerline, up to 100' AGL/5939' MSL.
Rising terrain and trees beginning 1.68 NM from DER, 247' right of centerline, up to 100' AGL/5239' MSL.
Rising terrain and trees beginning 1.76 NM from DER, 766' left of centerline, up to 100' AGL/5599' MSL.
Rising terrain beginning 3.5 NM from DER, left and right of centerline, up to 6359' MSL.
Rwy 19, trees beginning 271' from DER, 506' right of centerline, up to 100' AGL/4899' MSL.

KINGMAN, AZ
KINGMAN (IGM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 16JUL20 (20198) (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 35, 800-1 or std. w/min. climb of 210' per NM to 7000.
Rwys 17, 21, NA.
DEPARTURE PROCEDURE:
Climb northbound on IGM R-010 until reaching 6000; reverse course to the left and continue climb to 9000 direct to IGM. If unable to cross IGM at 9000 continue climb in IGM holding pattern (SW, left turns, 027° inbound).
TAKEOFF OBSTACLE NOTES:
Rwy 3, terrain and vegetation beginning 171' from DER, 264' right of centerline, up to 3402' MSL.
Rwy 35, terrain beginning 32' from DER, 172' right of centerline, up to 3363' MSL.
Fence 306' from DER, 392' right of centerline, 6' AGL/3368' MSL.
Traverse way 441' from DER, 274' right of centerline, up to 15' AGL/3372' MSL.

LAGUNA AAF (LGF)
YUMA PROVING GROUND, AZ
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
04SEP03 (03247)
TAKEOFF MINIMUMS:
Rwy 6, 18, 36, turn right, climb to 3600 direct BZA VORTAC.
Rwy 24, climb to 3600 direct to BZA VORTAC.
TAKEOFF OBSTACLE NOTES:
Rwy 18, 386' (6' AGL) windsock, 818' from DER, 194' left of centerline.

LAKE HAVASU CITY, AZ

LAKE HAVASU CITY (HII)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 31MAY12 (12152) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, std. w/min. climb of 465' per NM to 4800, or 1500-3 for climb in visual conditions.

Rwy 32, 600-1¾ w/min. climb of 492' per NM to 1100, or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 14, climbing right turn heading 300° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or ...

Rwy 32, climbing left turn heading 290° to intercept EED VORTAC R-155 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course or. ..

Rwys 14, 32, ... For climb in visual conditions: cross Lake Havasu City airport northwest bound at or above 2300, then Intercept EED VORTAC R-138 to EED VORTAC, continue climb in EED VORTAC holding pattern (East, right turns, 257° inbound) to cross EED VORTAC at or above 6100 before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 14, pole 3327' from DER, 46' right of centerline, 107' AGL/868' MSL.

Poles 3468' from DER, 195' left of centerline, up to 107' AGL/890' MSL.

Trees/bushes 976' from DER, 380' left of centerline, up to 46' AGL/829' MSL.

Terrain 143' from DER, 346' left of centerline, up to 804' MSL.

Rwy 32, trees 1544' from DER, 416' right of centerline, up to 44' AGL/793' MSL.

LAS VEGAS, NV

HENDERSON EXECUTIVE (HND)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 22JUN17 (17173) (FAA)

TAKEOFF MINIMUMS:

Rwys 17L/R, standard with minimum climb of 491' per NM to 6000 or 2800-2¾ for VCOA.

Rwys 35L/R, standard with minimum climb of 312' per NM to 4700 or 2800-2¾ for VCOA.

DEPARTURE PROCEDURE:

Rwys 17L/R, climbing right turn on LAS R-157 to LAS VORTAC before proceeding on course.

Rwys 35 L/R, climbing right turn on BLD R-257 to BLD VORTAC before proceeding on course.

VCOA:

All Runways, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Henderson Executive airport eastbound at or above 5100, then proceed on BLD R-249 TO BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17L, terrain beginning 2427' from DER, 18' left of centerline, 2552' MSL.

Poles beginning 4256' from DER, 678' right of centerline, up to 2598' MSL.

Rwy 17R, bush 134' from DER, 314' right of centerline, 2498' MSL.

Fence 629' from DER, 75' right of centerline, 2510' MSL.

Terrain 928' from DER, 717' left of centerline, 2552' MSL.

Tank 1096' from DER, 311' right of centerline, 2533' MSL.

Vehicles on road beginning 1149' from DER, crossing centerline, up to 1159' MSL.

Poles beginning 2756' from DER, from 400' left to 698' right of centerline, up to 2764' MSL.

MCCARRAN INTL (LAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 1L, 300-1 or std. w/min. climb of 269' per NM to 2300.

Rwy 19L, std. w/min. climb of 256' per NM to 3400.

Rwy 19R, std. w/min. climb of 242' per NM to 3400.

Rwy 26L, 300-2¼ or std. w/min. climb of 214' per NM to 2400.

Rwy 26R, 400-2½ or std. w/min. climb of 270' per NM to 2400.

DEPARTURE PROCEDURE:

Rwys 1L/R, Climbing right turn direct BLD VORTAC before proceeding on course.

Rwys 8L/R, Climb heading 079° to 3700, then climbing right turn direct BLD VORTAC before proceeding on course.

Rwys 19L/R, Climb heading 194° to 2800, then climbing left turn heading 120° and BLD R-257 to BLD VORTAC before proceeding on course.

Rwys 26L/R, Climb heading 259° to 2800, then climbing right turn direct BLD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1L, REIL 23' from DER, 153' left of centerline, 3' AGL/2090' MSL.

Sign 1037' from DER, 695' left of centerline, 41' AGL/2125' MSL.

Building 1556' from DER, 552' left of centerline, 2129' MSL.

Building 1779' from DER, 649' left of centerline, 2147' MSL.

Buildings beginning 1907' from DER, 186' left of centerline, up to 2150' MSL.

Buildings beginning 1977' from DER, 214' left of centerline, up to 2150' MSL.

CON'T

LAS VEGAS, NV (CON'T)

MCCARRAN INTL (LAS) **(CON'T)**

Rwy 1L (CON'T), buildings beginning 2095' from DER, 275' left of centerline, up to 83' AGL/2153' MSL.
Buildings beginning 3953' from DER, 1397' left of centerline, up to 162' AGL/2226' MSL.
Building 4126' from DER, 1090' left of centerline, 2229' MSL.
Building 4542' from DER, 1400' left of centerline, 183' AGL/2240' MSL.
Building 4604' from DER, 1367' left of centerline, 186' AGL/2243' MSL.
Rwy 1R, building 609' from DER, 538' right of centerline, 28' AGL/2095' MSL.
Sign 1336' from DER, 447' right of centerline, 60' AGL/2122' MSL.
Rwy 8L, pole 744' from DER, 442' right of centerline, 30' AGL/2057' MSL.
Tree 758' from DER, 168' right of centerline, 2068' MSL.
Tree 767' from DER, 589' left of centerline, 2060' MSL.
Tree 850' from DER, 184' left of centerline, 2067' MSL.
Trees beginning 886' from DER, 371' right of centerline, up to 2074' MSL.
Rwy 8R, tower 1457' from DER, 848' right of centerline, 64' AGL/2097' MSL.
Rwy 19L, railroad, pole beginning 952' from DER, 322' left of centerline, up to 2215' MSL.
Railroad 1043' from DER, 178' left of centerline, 2218' MSL.
Railroad, pole beginning 1122' from DER, 19' left of centerline, up to 2219' MSL.
Railroad 1166' from DER, 75' right of centerline, 2220' MSL.
Railroad 1219' from DER, 235' right of centerline, 2222' MSL.
Railroad 1230' from DER, 281' right of centerline, 2223' MSL.
Pole 1234' from DER, 178' left of centerline, 2221' MSL.
Railroad 1241' from DER, 351' right of centerline, 2224' MSL.
Railroad 1246' from DER, 489' right of centerline, 2225' MSL.
Railroad, pole beginning 1247' from DER, 11' right of centerline, up to 2226' MSL.
Poles, tree, vehicles on road, sign, parking lot beginning 1392' from DER, 115' right of centerline, up to 36' AGL/2238' MSL.
Tree, pole beginning 1410' from DER, 9' left of centerline, up to 2232' MSL.
Tree 1819' from DER, 124' left of centerline, 2236' MSL.
Pole, tree, vehicles on road beginning 1824' from DER, 9' right of centerline, up to 34' AGL/2242' MSL.
Pole 1933' from DER, 623' right of centerline, 34' AGL/2243' MSL.
Pole, tree beginning 1936' from DER, 55' right of centerline, up to 36' AGL/2245' MSL.
Pole, tree, parking lot beginning 2036' from DER, 386' right of centerline, up to 35' AGL/2246' MSL.
Pole, parking lot, tree, vehicles on road beginning 2133' from DER, 183' right of centerline, up to 36' AGL/2247' MSL.
Sign, tree, parking lot, vehicles on road, pole, building beginning 2179' from DER, 27' right of centerline, up to 2256' MSL.
Pole 2229' from DER, 578' left of centerline, 2238' MSL.
Poles beginning 2332' from DER, 583' left of centerline, up to 2240' MSL.
Sign, tree, pole, parking lot, building beginning 2381' from DER, 53' right of centerline, up to 41' AGL/2257' MSL.
Building, tree, pole beginning 2466' from DER, 591' right of centerline, up to 38' AGL/2258' MSL.
Building, tree, poles, utility box beginning 2505' from DER, 157' right of centerline, up to 38' AGL/2259' MSL.
Pole, building beginning 2738' from DER, 20' left of centerline, up to 2251' MSL.
Building, tree beginning 2739' from DER, 1134' right of centerline, up to 57' AGL/2279' MSL.
Building, tree beginning 2766' from DER, 869' right of centerline, up to 57' AGL/2280' MSL.
Building, tree beginning 2822' from DER, 1006' right of centerline, up to 58' AGL/2281' MSL.
Buildings, tree, poles beginning 2861' from DER, 665' right of centerline, up to 59' AGL/2282' MSL.
Buildings, pole beginning 3418' from DER, 884' right of centerline, up to 61' AGL/2284' MSL.
Building, pole beginning 3515' from DER, 424' right of centerline, up to 59' AGL/2287' MSL.
Sign 5292' from DER, 1688' right of centerline, 55' AGL/2309' MSL.
Building, pole beginning 5596' from DER, 1758' left of centerline, up to 110' AGL/2334' MSL.
Communication tower 5717' from DER, 781' right of centerline, 80' AGL/2327' MSL.
Building 2 NM from DER, 2897' left of centerline, 236' AGL/2491' MSL.
Buildings beginning 2 NM from DER, 2936' left of centerline, up to 241' AGL/2494' MSL.
Rwy 19R, ground 60' from DER, 475' right of centerline, 2186' MSL.
Ground 151' from DER, 529' right of centerline, 2190' MSL.
Building 194' from DER, 444' right of centerline, 9' AGL/2199' MSL.
NAVAID 262' from DER, 408' right of centerline, 14' AGL/2206' MSL.
Vehicles on road, ground, control box beginning 348' from DER, 42' right of centerline, up to 2208' MSL.
Pole, vehicles on road beginning 503' from DER, 434' right of centerline, up to 2218' MSL.
Pole, sign, vehicles on road, flag pole, fence beginning 592' from DER, 277' right of centerline, up to 37' AGL/2234' MSL.
Signs, parking lot, vehicles on road, building, pole, tree beginning 844' from DER, 266' right of centerline, up to 41' AGL/2240' MSL.
Tower, fence, vehicles on road, sign beginning 961' from DER, 175' right of centerline, up to 41' AGL/2243' MSL.
T-L tower, vehicles on road, railroad, pole, railroad crossing signal control box, parking lot beginning 1132' from DER, 8' right of centerline, up to 47' AGL/2249' MSL.
Railroad 1219' from DER, 701' left of centerline, 2222' MSL.
Railroad 1230' from DER, 656' left of centerline, 2223' MSL.
Railroad 1240' from DER, 585' left of centerline, 2224' MSL.
Railroad 1246' from DER, 448' left of centerline, 2225' MSL.
Railroad, pole beginning 1247' from DER, 76' left of centerline, up to 2226' MSL.
Poles, tree, vehicles on road, sign beginning 1392' from DER, 15' left of centerline, up to 36' AGL/2238' MSL.
Poles, tree, parking lot, building beginning 1726' from DER, 11' right of centerline, up to 2254' MSL.
Pole, tree beginning 1823' from DER, 78' left of centerline, up to 34' AGL/2242' MSL.
Pole 1933' from DER, 313' left of centerline, 34' AGL/2243' MSL.
CON'T

LAS VEGAS, NV (CON'T)

MCCARRAN INTL (LAS) (CON'T)

Rwy 19R (CON'T), pole, tree beginning 1935' from DER, 12' left of centerline, up to 36' AGL/2245' MSL.
Pole, tree beginning 2036' from DER, 5' left of centerline, up to 35' AGL/2246' MSL.
Poles, building, tree beginning 2043' from DER, 221' right of centerline, up to 2255' MSL.
Pole, tree beginning 2133' from DER, 19' left of centerline, up to 36' AGL/2247' MSL.
Tree, poles, sign, building beginning 2146' from DER, 14' right of centerline, up to 2259' MSL.
Pole, building, tree beginning 2234' from DER, 12' left of centerline, up to 35' AGL/2249' MSL.
Pole, tree beginning 2335' from DER, 88' left of centerline, up to 36' AGL/2250' MSL.
Sign, tree, poles, building beginning 2381' from DER, 37' left of centerline, up to 41' AGL/2257' MSL.
Pole, buildings, tree beginning 2496' from DER, 5' right of centerline, up to 2274' MSL.
Building beginning 2739' from DER, 196' right of centerline, up to 57' AGL/2279' MSL.
Building, tree beginning 2766' from DER, 73' right of centerline, up to 57' AGL/2280' MSL.
Building beginning 2767' from DER, 44' left of centerline, up to 36' AGL/2258' MSL.
Building, tree beginning 2822' from DER, 68' right of centerline, up to 58' AGL/2281' MSL.
Building, tree beginning 2861' from DER, 126' right of centerline, up to 59' AGL/2282' MSL.
Buildings, tree beginning 2893' from DER, 6' right of centerline, up to 2288' MSL.
Building beginning 2895' from DER, 2' left of centerline, up to 39' AGL/2262' MSL.
Buildings, tree building beginning 3032' from DER, 301' right of centerline, up to 61' AGL/2290' MSL.
Buildings, tree, pole beginning 3076' from DER, 58' right of centerline, up to 61' AGL/2291' MSL.
Buildings, sign, poles beginning 3459' from DER, 287' right of centerline, up to 74' AGL/2302' MSL.
Building 3495' from DER, 53' left of centerline, 52' AGL/2278' MSL.
Communication tower 5717' from DER, 156' left of centerline, 80' AGL/2327' MSL.
Rwy 26L, building 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL.
Railroad, pole beginning 1857' from DER, 793' left of centerline, up to 2215' MSL.
Railroad 2068' from DER, 796' left of centerline, 2218' MSL.
Pole, railroad beginning 2148' from DER, 800' left of centerline, up to 2221' MSL.
Tree, railroad beginning 2376' from DER, 780' left of centerline, up to 2232' MSL.
Tree, railroad beginning 2528' from DER, 751' left of centerline, up to 2233' MSL.
Pole 2861' from DER, 811' left of centerline, 36' AGL/2238' MSL.
Pole 3167' from DER, 1144' left of centerline, 34' AGL/2242' MSL.
Pole 3171' from DER, 1091' left of centerline, 34' AGL/2243' MSL.
Pole 3313' from DER, 1200' left of centerline, 35' AGL/2246' MSL.
Sign, T-L tower beginning 3672' from DER, 145' left of centerline, up to 2256' MSL.
Pole, building beginning 4223' from DER, 1389' left of centerline, up to 2274' MSL.
Building 4554' from DER, 1593' left of centerline, 2277' MSL.
Building 4687' from DER, 1685' left of centerline, 53' AGL/2279' MSL.
Building 4719' from DER, 1754' left of centerline, 61' AGL/2290' MSL.
Building 4954' from DER, 1694' left of centerline, 61' AGL/2291' MSL.
Transmission tower 5469' from DER, 1056' left of centerline, 2297' MSL.
Pole 5879' from DER, 1519' left of centerline, 2309' MSL.
Pole 6019' from DER, 2022' right of centerline, 101' AGL/2309' MSL.
Pole 1 NM from DER, 1720' left of centerline, 46' AGL/2311' MSL.
Pole 1 NM from DER, 1922' left of centerline, 45' AGL/2311' MSL.
Tower 1.1 NM from DER, 1843' left of centerline, 80' AGL/2332' MSL.
Pole 1.8 NM from DER, 1817' left of centerline, 131' AGL/2435' MSL.
NAVAIDs, building beginning 533' from DER, 367' left of centerline, up to 14' AGL/2206' MSL.
NAVAIDs beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL.
Vehicles on road beginning 666' from DER, crossing left and right of centerline, up to 2208' MSL.
Pole 785' from DER, 592' left of centerline, 2218' MSL.
Pole, tree beginning 786' from DER, 8' left of centerline, up to 2220' MSL.
Trees beginning 821' from DER, 49' right of centerline, up to 25' AGL/2214' MSL.
Pole, sign, tree, building beginning 873' from DER, 347' left of centerline, up to 37' AGL/2234' MSL.
Trees beginning 952' from DER, 48' right of centerline, up to 2233' MSL.
Pole, tree, railroad beginning 1093' from DER, 531' left of centerline, up to 38' AGL/2237' MSL.
Trees beginning 1559' from DER, 555' right of centerline, up to 2259' MSL.
Tree, building, railroad beginning 1812' from DER, 191' left of centerline, up to 2246' MSL.
Building 2501' from DER, 881' left of centerline, 2254' MSL.
Poles beginning 3002' from DER, 543' left of centerline, up to 44' AGL/2271' MSL.
Poles beginning 3005' from DER, 743' left of centerline, up to 48' AGL/2277' MSL.
Pole 3116' from DER, 1022' right of centerline, 101' AGL/2309' MSL.
Sign 3339' from DER, 278' left of centerline, up to 2286' MSL.
Communication tower 4521' from DER, 704' right of centerline, 2332' MSL.
Sign 1.3 NM from DER, 2649' left of centerline, 80' AGL/2384' MSL.
Pole 1.5 NM from DER, 2801' left of centerline, 100' AGL/2444' MSL.
Pole 1.6 NM from DER, 2832' left of centerline, up to 100' AGL/2455' MSL.
Pole, communication tower beginning 1.7 NM from DER, 2068' left of centerline, up to 100' AGL/2463' MSL.
Pole 1.7 NM from DER, 2845' left of centerline, 135' AGL/2469' MSL.
Transmission tower 2.1 NM from DER, 3453' left of centerline, 134' AGL/2490' MSL.

LAS VEGAS, NV (CON'T)

NORTH LAS VEGAS (VGT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 08NOV18 (18312) (FAA)

DEPARTURE PROCEDURE: Use BOULDER CITY DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7, tower 1.1 NM from DER, 1044' right of centerline, 252' AGL/2348' MSL.
Rwy 12R, multiple towers 1.0 NM from DER, 850' right of centerline, up to 267' AGL/2368' MSL.
Tower 1.2 NM from DER, 1355' right of centerline, 270' AGL/2367' MSL.
Power lines 1122' from DER, 764' right of centerline, traversing to the southeast out to 2345' from DER, 510' right of centerline, 106' AGL/2344' MSL.
Rwy 12L, light pole 254' from DER, 462' right of centerline, 36' AGL/2159' MSL.
Trucks on road 255' from DER, 502' right of centerline, 15' AGL/2155' MSL.
Power line 1289' from DER, 663' right of centerline traversing to the Northeast out to 1576' from DER, 716' left of centerline, up to 129' AGL/2226' MSL.
Multiple towers 5045' from DER,1551' right of centerline, 267' AGL/2368' MSL.
Rwy 25, light pole, 1447' from DER, 21' right of centerline, 35' AGL/2255' MSL.
Rwy 30L, signs, building, light pole beginning 1692' from DER, 236' left of centerline, up to 49' AGL/2271' MSL.
Multiple trees beginning 1785' from DER, 78' right of centerline, up to 57' AGL/2296' MSL.
Tree, multiple towers/antennas beginning 2745' from DER, 511' left of centerline, up to 84' AGL/2397' MSL.
Rwy 30R, antenna tower 4639' from DER, 1736' left of centerline, 84' AGL/2327' MSL.
Anemometer 552' from DER, 570' left of centerline, 34' AGL/2216' MSL.
Vent on building 1632' from DER, 566' right of centerline, 58' AGL/2240' MSL.
Antenna on hanger 2012' from DER, 195' right of centerline, 61' AGL/2247' MSL.

LOGAN, UT

LOGAN-CACHE (LGU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 17DEC09 (09351) (FAA)

TAKEOFF MINIMUMS:

Rwys 10, 28, NA-obstacles.

DEPARTURE PROCEDURE:

Rwys 17, 35, use ORNEY DEPARTURE.

LOVELOCK, NV

DERBY FIELD (LOL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, std. w/min. climb of 415' per NM to 8200 or 3200-3 for climb in visual conditions.
Rwys 8, 20, std. w/min. climb of 340' per NM to 8200 or 3200-3 for climb in visual conditions.
Rwy 26, std. w/min. climb of 400' per NM to 8200 or 3200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 2, climb to 6500 then climbing left turn direct LLC VORTAC, thence...
Rwys 8, 20, 26, climb to 5700 then climbing left turn direct LLC VORTAC, thence...
...Climb in LLC VORTAC holding pattern (north, left turn, 169° inbound) to depart LLC VORTAC at or above 8800, continue climb on course to MEA or assigned altitude.

VCOA:

Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Derby Field Airport at or above 7000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, vegetation 13' from DER, 141' right of centerline, 3908' MSL.
Sign 17' from DER, 199' left of centerline, 2' AGL/3909' MSL.
Vegetation 54' from DER, 155' right of centerline, 3909' MSL.
Tree 80' from DER, 347' right of centerline, 3912' MSL.
Rwy 8, vegetation beginning 56' from DER, 172' left of centerline, up to 3910' MSL.
Vegetation 147' from DER, 376' left of centerline, 3911' MSL.
Rwy 20, vegetation beginning 47' from DER, 112' left of centerline, up to 3910' MSL.
Rwy 26, terrain 15' from DER, 170' right of centerline, 3905' MSL.
Vegetation 67' from DER, 239' left of centerline, 3906' MSL.
Tree 258' from DER, 531' left of centerline, 3917' MSL

LUKE AFB (KLUF)
GLENDALE, AZ
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 09JAN14 (14009)
DEPARTURE PROCEDURE:
Rwy 3L, 3R, Climb heading 030° to LUF 4 DME, then climbing left turn on a heading between 320° CW to 360° from DER. Expect RADAR vectors on course from Luke RAPCON.
Rwy 21L, 21R, Climb heading 210° to LUF 8 DME, then climb on a heading between 180° CW to 222° from DER. Expect RADAR vectors on course from Luke RAPCON.
TAKEOFF OBSTACLE NOTES:
Rwy 3L, Taxiing aircraft, 19' AGL/1123' MSL, 1221' from DER, 782' left of centerline.
Taxiing aircraft, 19' AGL/1123' MSL, 1407' from DER, 609' left of centerline.
Rwy 21L, Taxiing aircraft, 38' AGL/1117' MSL, 1428' from DER, 774' left of centerline.

MANTI, UT
MANTI-EPHRAIM (41U)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 22JUN17 (17173) (FAA)
DEPARTURE PROCEDURE:
Rwy 3, Use YMONT DEPARTURE.
Rwy 21, Use WUXOT DEPARTURE.

MARANA, AZ
MARANA RGNL(AVQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 22AUG13 (13234) (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 12, N/A-Obstacles
DEPARTURE PROCEDURE:
Rwy 21, climb to 6500 via heading 360° and TUS R-308 to TOTEC INT/TUS 57 DME, then as filed.
Rwy 30, climb to 6500 via heading 303° intercept TUS R-308 above 3500, to TOTEC INT/TUS 57 DME, then as filed.
TAKEOFF OBSTACLE NOTES:
Rwy 21, road 53' from DER, 413' left of centerline, 15' AGL/2035' MSL.
Tree 800' from DER, 695' left of centerline, 32' AGL/2043' MSL.
Multiple trees and poles beginning 518' from DER, 190' right of centerline, up to 38' AGL/2049' MSL.
Rwy 30, multiple trees beginning 148' from DER, 275' right of centerline, up to 19' AGL/2020' MSL.

MESA, AZ
FALCON FIELD (FFZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 29JUL10 (10210) (FAA)
DEPARTURE PROCEDURE:
use MESA DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 07JAN16 (16007) (FAA)
Rwy 4L, Heading as assigned by ATC; requires minimum climb of 480' per NM to 3800.
Rwy 4R, Heading as assigned by ATC; requires minimum climb of 500' per NM to 3700.
Rwy 22L/R, Heading as assigned by ATC.

MESQUITE, NV
MESQUITE (67L)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13SEP18 (18256) (FAA)
TAKEOFF MINIMUMS:
Rwy 2, 300-2¼ or std. w/min. climb of 455' per NM to 2300.
DEPARTURE PROCEDURE:
Rwy 2, climb heading 018° to 2400 then climbing left turn direct MMM VORTAC, continue climb-in hold (hold S, left turn, 015° inbound) to 11000 before proceeding on course.
Rwy 20, climbing right turn direct MMM VORTAC, continue climb-in hold (hold S, left turn 015° inbound) to 11000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 2, terrain beginning 41' from DER, 227' left of centerline, up to 1992' MSL.
Terrain beginning 83' from DER, 456' right of centerline, up to 2000' MSL.
Fence, terrain beginning 190' from DER, 211' right of centerline, up to 3' AGL/2005' MSL.
Terrain beginning 197' from DER, 213' left of centerline, up to 2006' MSL.
Terrain beginning 295' from DER, 222' right of centerline, up to 2006' MSL.
Terrain beginning 365' from DER, 225' left of centerline, up to 2019' MSL.
Fence beginning 491' from DER, 238' right of centerline, up to 3' AGL/2014' MSL.
Terrain 783' from DER, 496' left of centerline, 2026' MSL.
CON'T

MESQUITE, NV (CON'T)

MESQUITE (67L) (CON'T)

Rwy 2 (CON'T), terrain beginning 846' from DER, 254' left of centerline, up to 2031' MSL.
Terrain, fence beginning 971' from DER, 272' left of centerline, up to 2036' MSL.
Terrain, fence beginning 1176' from DER, 269' left of centerline, up to 2038' MSL.
Terrain beginning 1289' from DER, 411' left of centerline, up to 2043' MSL.
Terrain beginning 1426' from DER, 647' left of centerline, up to 2048' MSL.
Terrain beginning 2059' from DER, 909' left of centerline, up to 2059' MSL.
Terrain 2960' from DER, 1201' left of centerline, 2065' MSL.
Terrain beginning 3160' from DER, 139' right of centerline, up to 2098' MSL.
Terrain beginning 3268' from DER, 73' right of centerline, up to 2119' MSL.
Terrain beginning 3317' from DER, 334' left of centerline, up to 2084' MSL.
Terrain beginning 3424' from DER, 674' right of centerline, up to 2139' MSL.
Terrain 3429' from DER, 459' right of centerline, 2149' MSL.
Terrain beginning 3434' from DER, 109' left of centerline, up to 2102' MSL.
Terrain 3460' from DER, 387' right of centerline, 2152' MSL.
Terrain, vegetation beginning 3484' from DER, 10' right of centerline, up to 2156' MSL.
Terrain 3794' from DER, 751' left of centerline, 2110' MSL.
Terrain beginning 3794' from DER, 163' left of centerline, up to 2118' MSL.
Terrain beginning 3903' from DER, 952' left of centerline, up to 2122' MSL.
Terrain, vegetation beginning 3911' from DER, 119' left of centerline, up to 2199' MSL.
Terrain, vegetation beginning 4387' from DER, 10' left of centerline, up to 2204' MSL.
Terrain 1.5 NM from DER, 2409' left of centerline, 2216' MSL.
Vegetation 1.5 NM from DER, 2758' left of centerline, 2231' MSL.
Terrain beginning 1.5 NM from DER, 2618' left of centerline, up to 2257' MSL.
Terrain beginning 1.5 NM from DER, 2769' left of centerline, up to 2259' MSL.
Terrain 1.7 NM from DER, 3138' left of centerline, 2244' MSL.
Rwy 20, lighting 1' from DER, 46' left of centerline, 2' AGL/1876' MSL.
Lighting 3' from DER, 89' right of centerline, 2' AGL/1876' MSL.
Traverse way 4' from DER, 355' right of centerline, 1878' MSL.
Transmission line 453' from DER, 308' left of centerline, 70' AGL/1888' MSL.

MICHAEL AAF (KDPG),

DUGWAY PROVING GROUND, UT

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 23AUG12 (12236)

DEPARTURE PROCEDURES:

Rwy 12, Climb heading 122° to 5700, then climbing right turn on a heading between 202° CW to 302° to 10,000 before proceeding on course.
Rwy 30, Climbing left turn on a heading between 267° CW to 300° to 10,000 before proceeding on course.

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05APR12 (12096) (FAA)

TAKEOFF MINIMUMS:

Rwy 34, std. w/min. climb of 487' per NM to 6500 or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 16, climb direct MLF VORTAC, thence ...
... Aircraft departing on V235 or V21 southbound proceed on course.
... All other aircraft climb to 11000 on MLF VORTAC R-168, then right turn direct MLF VORTAC. Continue climb-in-hold, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for route of flight.
Rwy 34, climbing left turn to intercept MLF VORTAC R-310 to MLF VORTAC, thence...
... Aircraft departing on V235 or V21 southbound; proceed on course .
... All other aircraft, climb-in-hold, MLF VORTAC, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for Route of flight.
... or climb in visual conditions to cross Milford Muni/Ben and Judy Briscoe Field airport southbound at or above 6400, then climb on MLF VORTAC R-345 to MLF VORTAC. Aircraft departing on V235 and V21 southbound; proceed on course. All other aircraft climb to 11000 on MLF VORTAC R-168, then, right turn direct MLF VORTAC. Continue climb in- hold, right turns, 348° inbound to cross MLF VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning 440' from DER, 332' right of centerline, up to 100' AGL/5159' MSL.
Trees beginning 4912' from DER, 1451' right of centerline, up to 100' AGL/5179' MSL.
Rwy 34, vehicles on roadway 231' from DER, across centerline, up to 15' AGL/5054' MSL.
Trees beginning 3177' from DER, 508' left of centerline, up to 100' AGL/5119' MSL.

MINDEN, NV

MINDEN-TAHOE (MEV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwys 12, 16, 30, NA - Obstacles.

DEPARTURE PROCEDURE:

Rwy 34, use MINDEN (RNAV) DEPARTURE.

MOAB, UT

CANYONLANDS FIELD (CNY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwys 15, 33, NA - Runway Surface.

Rwy 3, std. w/min. climb of 405' per NM to 6100 or 5000-3 for VCOA.

Rwy 21, std. w/min. climb of 456' per NM to 6100 or 5000-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 3, climbing left turn to 6700 on OAB R-298, thence...

Rwy 21, climbing right turn to 6700 on OAB R-298, thence...

...Climbing right turn to 10000 direct OAB VOR/DME. Continue climb in holding to 10000 at OAB VOR/DME (northwest, left turn, 118° inbound) before proceeding on course.

VCOA:

Rwys 3, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Canyonlands Field at or above 9400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, terrain 46' from DER, 484' right of centerline, 4559' MSL.

Tree 63' from DER, 481' left of centerline, 4564' MSL.

Tree 86' from DER, 509' left of centerline, 4565' MSL.

Electrical system 135' from DER, 529' right of centerline, 34' AGL/4595' MSL.

Transmission line 1108' from DER, 589' right of centerline, 51' AGL/4596' MSL.

Transmission line 1786' from DER, 606' left of centerline, 50' AGL/4603' MSL.

Terrain 1.5 NM from DER, 1600' right of centerline, 4827' MSL.

Terrain 2.5 NM from DER, 1185' left of centerline, 4990' MSL.

Rwy 21, bush beginning 60' from DER, 79' left of centerline, up to 10' AGL/4581' MSL.

Bush beginning 132' from DER, 65' right of centerline, up to 10' AGL/4597' MSL.

Pole 1658' from DER, 128' left of centerline, 85' AGL/4625' MSL.

Pole 1710' from DER, 319' right of centerline, 4602' MSL.

Pole 1827' from DER, 831' right of centerline, 4623' MSL.

Bush 1.5 NM from DER, 2256' left of centerline, 10' AGL/4797' MSL.

Bush beginning 1.9 NM from DER, 3289' right of centerline, up to 4868' MSL.

Terrain 1.9 NM from DER, 2742' right of centerline, 4899' MSL.

Traverse way beginning 2 NM from DER, 39' left of centerline, up to 10' AGL/4984' MSL.

Traverse way beginning 2.1 NM from DER, 297' left of centerline, up to 10' AGL/4994' MSL.

Trees beginning 2.1 NM from DER, 91' left of centerline, up to 10' AGL/5014' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 30JAN20 (20030)

TAKEOFF MINIMUMS:

Rwy 3L, 2500-3 SR-SS or std. w/min climb of 270' per NM to 3700.

Rwy 3R, 2700-3 SR-SS or std. w/min climb of 245' per NM to 4700.

Rwy 21L/R, 9100-3 SR-33.

DEPARTURE PROCEDURE:

Rwy 3L/R, climb hdg 040°, expect radar vectors passing 5400' MSL from RAPCON.

Rwy 21L/R, diverse departure N/A.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, potential C-5 on twy 215' inward of DER, 390' right of cntrln, 65' AGL/1934' MSL.

Rwy 3R, potential C-5 on twy 147' inward of DER, 610' left of cntrln, 65' AGL/1934' MSL.

Rwy 21L, potential C-5 on twy 38' inward of DER, 580' left of cntrln, 65' AGL/1890' MSL.

Potential C-5 on twy 89' inward of DER, 521' right of cntrln, 65' AGL/1895' MSL.

Trees 1387' from DER, 744' left of cntrln, 49' AGL/1871' MSL.

Trees 2138' from DER, 478' left of cntrln, 44' AGL/1866' MSL.

Trees 1022' from DER, 800' left of cntrln, 46' AGL/1868' MSL.

Rwy 21R, twr 1465' from DER, 1137' right of cntrln, 101' AGL/1938' MSL.

Potential C-5 on twy 89' inward of DER, 454' left of cntrln, 65' AGL/1896' MSL.

Potential C-130 on twy 39' inward of DER, 384' right of cntrln, 39' AGL/1877' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 30JAN20 (20030)

Rwy 3L/R, N/A-terrain.

Rwy 21L/R, hdg as assigned by ATC; requires min climb of 281 (Mil)/296 (Civ) ft/NM until 12,000.

NEPHI, UT

NEPHI MUNI (U14)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20OCT11 (11293) (FAA)

DEPARTURE PROCEDURE:

Use NEPHI DEPARTURE.

NOGALES, AZ

NOGALES INTL (OLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 08NOV18 (18312) (FAA)

TAKEOFF MINIMUMS:

Use NOGALES DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, tree 58' from DER, 455' left of centerline, 3963' MSL.
Tree 80' from DER, 174' right of centerline, 6' AGL/3958' MSL.
Trees beginning 97' from DER, 446' left of centerline, up to 15' AGL/3964' MSL.
Tree 252' from DER, 43' right of centerline, 5' AGL/3962' MSL.
Tree 261' from DER, 463' left of centerline, 3971' MSL.
Trees beginning 308' from DER, 37' right of centerline, up to 9' AGL/3964' MSL.
Trees, fence beginning 334' from DER, 136' left of centerline, up to 3987' MSL.
Trees beginning 368' from DER, 64' right of centerline, up to 3991' MSL.
Tree, terrain beginning 603' from DER, 546' right of centerline, up to 3993' MSL.
Trees, fence, terrain beginning 659' from DER, 13' left of centerline, up to 3995' MSL.
Trees, terrain, fence beginning 833' from DER, 103' right of centerline, up to 4010' MSL.
Trees, terrain beginning 1179' from DER, 118' left of centerline, up to 5' AGL/3996' MSL.
Trees, terrain beginning 1199' from DER, 97' right of centerline, up to 4036' MSL.
Trees, terrain beginning 1241' from DER, 66' left of centerline, up to 4018' MSL.
Trees, terrain beginning 1412' from DER, 90' right of centerline, up to 4043' MSL.
Traverse way, terrain beginning 1624' from DER, 642' left of centerline, up to 4028' MSL.
Terrain beginning 1637' from DER, 2' right of centerline, up to 4052' MSL.
Trees, traverse way, terrain beginning 1688' from DER, 45' left of centerline, up to 4035' MSL.
Terrain beginning 1825' from DER, 38' right of centerline, up to 4067' MSL.
Pole, traverse way, trees beginning 1853' from DER, 475' left of centerline, up to 21' AGL/4043' MSL.
Terrain 2033' from DER, 186' left of centerline, 4047' MSL.
Trees, traverse way, terrain beginning 2041' from DER, 74' left of centerline, up to 7' AGL/4052' MSL.
Terrain 2221' from DER, 269' left of centerline, 4055' MSL.
Tree, traverse way, terrain beginning 2253' from DER, 170' left of centerline, up to 18' AGL/4080' MSL.
Terrain beginning 2354' from DER, 20' right of centerline, up to 4068' MSL.
Trees, traverse way, pole, terrain beginning 2491' from DER; 55' left of centerline, up to 14' AGL/4093' MSL.
Terrain beginning 2539' from DER, 125' right of centerline, up to 4087' MSL.
Traverse way 2657' from DER, 32' left of centerline, 15' AGL/4095' MSL.
Traverse way, trees, terrain beginning 2672' from DER, 6' left of centerline, up to 15' AGL/4096' MSL.
Traverse way, terrain beginning 2688' from DER, 2' right of centerline, up to 15' AGL/4096' MSL.
Terrain, traverse way beginning 2768' from DER, 98' right of centerline, up to 4112' MSL.
Traverse way 2987' from DER, 530' right of centerline, 4117' MSL.
Traverse way 2995' from DER, 635' right of centerline, 4121' MSL.
Traverse way, terrain beginning 3009' from DER, 489' right of centerline, up to 4123' MSL.
Tree, traverse way, terrain beginning 3351' from DER, 12' right of centerline, up to 4130' MSL.
Traverse way, terrain beginning 3449' from DER, 633' right of centerline, up to 4143' MSL.
Traverse way 3499' from DER, 1364' right of centerline, 4149' MSL.
Traverse way, terrain, vegetation beginning 3570' from DER, 101' right of centerline, up to 4155' MSL.
Tree, terrain beginning 3581' from DER, 42' left of centerline, up to 4112' MSL.
Terrain beginning 4127' from DER, 627' right of centerline, up to 4156' MSL.
Tree, terrain beginning 4143' from DER, 768' right of centerline, up to 4180' MSL.
Trees, terrain beginning 4262' from DER, 426' right of centerline, up to 4184' MSL.
Tree, terrain beginning 4495' from DER, 709' right of centerline, up to 4210' MSL.
Terrain beginning 4627' from DER, 1171' right of centerline, up to 4217' MSL.
Tree, terrain beginning 4737' from DER, 216' right of centerline, up to 4223' MSL.
Tree, terrain beginning 5806' from DER, 409' right of centerline, up to 4241' MSL.
Trees, terrain beginning 5953' from DER, 420' right of centerline, up to 4254' MSL.
Trees, terrain beginning 1 NM from DER, 58' right of centerline, up to 4256' MSL.
Trees, terrain beginning 1 NM from DER, 1260' left of centerline, up to 4136' MSL.
Trees, terrain beginning 1.1 NM from DER, 442' left of centerline, up to 4151' MSL.
Pole, trees, terrain beginning 1.2 NM from DER, 164' left of centerline, up to 16' AGL/4221' MSL.
Trees, terrain beginning 1.3 NM from DER, 84' left of centerline, up to 4254' MSL.
Trees, terrain beginning 1.4 NM from DER, 58' right of centerline, up to 11' AGL/4326' MSL.
Trees, terrain beginning 1.4 NM from DER, 25' left of centerline, up to 11' AGL/4283' MSL.
Trees, terrain beginning 1.5 NM from DER, 79' right of centerline, up to 11' AGL/4327' MSL.

CON'T

NOGALES, AZ (CON'T)

NOGALES INTL (OLS) (CON'T)

Rwy 3 (CON'T), trees, terrain beginning 1.7 NM from DER, 639' right of centerline, up to 4345' MSL.
Trees, terrain beginning 1.8 NM from DER, 172' right of centerline, up to 4367' MSL.
Trees, terrain beginning 1.9 NM from DER, 628' right of centerline, up to 4384' MSL.
Terrain, traverse way, trees beginning 2 NM from DER, 935' right of centerline, up to 4406' MSL.
Terrain 2.1 NM from DER, 616' left of centerline, 4299' MSL.
Trees, terrain, traverse way beginning 2.2 NM from DER, 1859' right of centerline, up to 4451' MSL.
Trees, traverse way, terrain beginning 2.2 NM from DER, 234' left of centerline, up to 4359' MSL.
Trees, terrain, traverse way beginning 2.3 NM from DER, 835' right of centerline, up to 14' AGL/4535' MSL.
Rwy 21, tree 3' from DER, 445' left of centerline, 3847' MSL.
Tree 19' from DER, 141' left of centerline, 10' AGL/3848' MSL.
Tree 29' from DER, 339' left of centerline, 3849' MSL.
Tree, vegetation beginning 45' from DER, 201' left of centerline, up to 17' AGL/3851' MSL.
Tree 48' from DER, 504' right of centerline, 3845' MSL.
Trees, vegetation beginning 112' from DER, 49' right of centerline, up to 24' AGL/3854' MSL.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 28FEB19 (19059) (FAA)

DEPARTURE PROCEDURE:
Use EMONT DEPARTURE.

TAKEOFF MINIMUMS:
Rwy 3, NAVAID, vehicle on road beginning 195' from DER, 267' right of centerline, up to 17' AGL/4426' MSL.
Pole 241' from DER, 535' left of centerline, 39' AGL/4447' MSL.
Pole 348' from DER, 582' right of centerline, 41' AGL/4451' MSL.
Trees, building beginning 375' from DER, 62' left of centerline, up to 4451' MSL.
Tree, pole beginning 430' from DER, 502' right of centerline, up to 4455' MSL.
Rwy 21, tree 702' from DER, 649' left of centerline, 4492' MSL.
Tree 1133' from DER, 701' left of centerline, 4513' MSL.
Trees, building, pole beginning 2074' from DER, 792' left of centerline, up to 4570' MSL.
Tree 3429' from DER, 421' right of centerline, 4561' MSL.
Rwy 35, tree 209' from DER, 185' left of centerline, 4446' MSL.
Tree 243' from DER, 233' left of centerline, 4447' MSL.
Trees beginning 292' from DER, 87' right of centerline, up to 4454' MSL.
Tree 686' from DER, 397' right of centerline, 4479' MSL.

PAGE, AZ

PAGE MUNI (PGA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 21JUL16 (16203) (FAA)

TAKEOFF MINIMUMS:
Rwys 7, 25, NA – obstacles.
Rwy 15, std. w/ min. climb of 285' per NM to 6500, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE:
Rwy 33, Climb heading 336° to 6000, then climbing left turn direct PGA VOR/DME, thence…
Rwy 15, Climb heading 156° to 6200, then climbing right turn direct PGA VOR/DME, thence…
…cross PGA VOR/DME at or above 7700. Continue climb in PGA VOR/DME holding pattern (hold nw, right turns 147° Inbound) to cross PGA VOR/DME at or above MEA/MCA for direction of flight.

VCOA:
Rwy 15, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Page Muni airport at or above 7300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 15, rising terrain 192' from DER, 272' right of centerline, 4323' MSL.

PANGUITCH, UT

PANGUITCH MUNI (U55)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02JUN11 (11153) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std. w/min. climb of 350' per NM to 9200 or 2200-3 for climb in visual conditions.

Rwy 36, std. w/min. climb of 450' per NM to 9500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 18, climb heading 185° to 9200 then left turn to intercept BCE VORTAC R-274, continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence …

Rwy 36, climb heading 005° to 9500 then left turn to intercept BCE VORTAC R-323 (V257), continue climb to 12000 to BCE VORTAC, or for climb in visual conditions: cross Panguitch Muni Airport southeast bound at or above 8800' MSL then via BCE R-320 to BCE VORTAC thence…

…continue climb in BCE VORTAC holding pattern (hold southwest, right turn, 045° inbound) to cross BCE VORTAC at or above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 36, terrain 64' from DER, 426' right of centerline, 6775' MSL.

Terrain 426' from DER, 565' right of centerline, 6779' MSL.

Rwy 18, terrain beginning 114' from DER, 306' left of centerline, 6758' MSL.

Terrain 26' from DER, 229' left of centerline 6756' MSL.

Terrain 388' from DER, 91' left of centerline 6766' MSL.

Terrain 316' from DER, 321' left of centerline 6766' MSL.

PARKER, AZ

AVI SUQUILLA (P20)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18SEP14 (14261) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, std. w/min. climb of 275' per NM to 2700 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 1, climb heading 012° to 1400 then climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC.

Rwy 19, climbing right turn to intercept PKE VORTAC R-067 to PKE VORTAC.

VCOA:

Rwy 1, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Avi Suquilla airport at or above 2100 then proceed on PKE R-067 to PKE VORTAC.

PAYSON, AZ

PAYSON (PAN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15NOV12 (12320) (FAA)

TAKEOFF MINIMUMS:

Rwy 6, std. w/ min. climb of 360' per NM to 9300, or 2500-3 for climb in visual conditions.

Rwy 24, std. w/ min. climb of 375' per NM to 9300, or 2500-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 6, 24, for climb in visual conditions: Cross Payson Airport at or above 7500 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 6, tree 197' from DER, 118' right of centerline, up to 12' AGL/5170' MSL.

Bush 83' from DER, 99' right of centerline, up to 3' AGL/5161' MSL.

Rwy 24, bush 15' from DER, 133' right of centerline, 6' AGL/5148' MSL.

Tree 320' from DER, 183' right of centerline, 12' AGL/5154' MSL.

Fence 85' from DER, 84' left of centerline, 4' AGL/5141' MSL.

Tree 164' from DER, 126' left of centerline, 9' AGL/5147' MSL.

PHOENIX, AZ

PHOENIX DEER VALLEY (DVT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use DEER VALLEY DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 7L, multiple poles and vegetation beginning 912' from DER, 125' left of centerline, up to 30' AGL/2,423' MSL.
Cactus 3,824' from DER, 96' right of centerline, 16' AGL/1,596' MSL.
Windsock 340' from DER, 354' right of centerline, 9' AGL/1,488' MSL.
Rwy 7R, multiple antennas and vegetation beginning 546' from DER, 267' left of centerline up to 52' AGL/1,952' MSL.
Multiple antennas and vegetation beginning 978' from DER, 431' right of centerline up to 40' AGL/1,609' MSL.
Rwy 25R, multiple antennas beginning 1.4 NM from DER, 1,847' right of centerline, up to 96' AGL/1,806' MSL.
Rwy 25L, pole 1,127' from DER, 498' right of centerline, 36' AGL/1,475' MSL.
Pole 1,184' from DER, 495' left of centerline, 32' AGL/1,471' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 13NOV14 (14317) (FAA)

Rwys 25L, 25R, heading as assigned by ATC; requires minimum climb of 370' per NM to 4600.

PHOENIX SKY HARBOR INTL (PHX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 18SEP14 (14261) (FAA)

TAKEOFF MINIMUMS:

Rwy 26, 600-2¾ or std. w/min. climb of 326' per NM to 1900.

DEPARTURE PROCEDURE:

Rwys 7L, 7R, 8, climb heading 078° to 3000, then climbing right turn direct PXR VORTAC.
Rwys 25L, 25R, climb heading 258° to 1900 then climbing right turn to join PXR R-260 (V16) westbound, climb to 5000.
Rwy 26, climb heading 258° to 1550, then join PXR R-260 (V16) westbound, climb to 5000. Westbound departures continue climb on PXR R-260. All others, climbing right turn direct PXR VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 7R, transmission towers and power lines, 3201' from DER, 1122' right of centerline, up to 131' AGL/1260' MSL.
Rwy 8, multiple light poles, beginning 2539' from DER, 900' left of centerline, up to 82' AGL/1234' MSL.
Light pole, 1639' from DER, 793' right of centerline, 46' AGL/1177' MSL.
Rwy 25L, multiple light poles, beginning 681' from DER, 521' left of centerline, up to 63' AGL/1166' MSL.
Sign, 902' from DER, 711' left of centerline, 64' AGL/1170' MSL.
Multiple light poles, beginning 1519' from DER, 535' left of centerline, up to 99' AGL/1201' MSL.
Multiple light poles, beginning 1919' from DER, 598' left of centerline, up to 90' AGL/1192' MSL.
Rwy 26, pole, 42' from DER, 440' left of centerline, 26' AGL/1135' MSL.
Fence, 176' from DER, 547' left of centerline, 11' AGL/1120' MSL.
Pole, 315' from DER, 499' left of centerline, 11' AGL/1120' MSL.
Tree, 763' from DER, 642' left of centerline, 24' AGL/1135' MSL.
Pole, 1959' from DER, 923' left of centerline, 59' AGL/1163' MSL.
Pole, 2312' from DER, 318' left of centerline, 66' AGL/1169' MSL.
Pole, 2336' from DER, 578' left of centerline, 67' AGL/1170' MSL.
Pole, 78' from DER, 456' right of centerline, 32' AGL/1142' MSL.
Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL.
Tree, 118' from DER, 294' right of centerline, 22' AGL/1133' MSL.
Tree, 239' from DER, 214' right of centerline, 22' AGL/1133' MSL.
Tree, 414' from DER, 522' right of centerline, 24' AGL/1135' MSL.
Sign, 520' from DER, 567' right of centerline, 16' AGL/1125' MSL.
Pole, 2301' from DER, 193' right of centerline, 69' AGL/1171' MSL.
Pole, 2302' from DER, 661' right of centerline, 68' AGL/1171' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 2 13NOV14 (14317) (FAA)

Rwys 7L, 7R, 8, heading as assigned by ATC.
Rwy 25L, heading as assigned by ATC; requires minimum climb of 305' per NM to 6000.
Rwy 25R, heading as assigned by ATC; requires minimum climb of 325' per NM to 6000.
Rwy 26, heading as assigned by ATC; requires minimum climb of 300' per NM to 6000.

PHOENIX, AZ (CON'T)

PHOENIX-MESA GATEWAY (IWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Use PHOENIX DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 30L/C/R, trees beginning 351' from DER, 351' left of centerline, up to 20' AGL/1,359' MSL.
Trees beginning 689' from DER, 398' right of centerline, up to 20' AGL/1,359' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 20AUG15 (15232) (FAA)

Rwys 12L, 12C, 12R, as assigned by ATC; requires minimum climb of 250' per NM to 3100.
Rwys 30L, 30C, 30R, heading as assigned by ATC.

PRESCOTT, AZ

PRESCOTT RGNL-ERNEST A LOVE FIELD (PRC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 20JUN19 (19171) (FAA)

DEPARTURE PROCEDURE:

Use PRESCOTT DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, lighting 8' from DER, 19' right of centerline, 1' AGL/4939' MSL.
Sign 15' from DER, 126' left of centerline, 3' AGL/4939' MSL.
Tree 20' from DER, 408' left of centerline, 4949' MSL.
Tree 184' from DER, 404' left of centerline, 4951' MSL.
Rwy 12, tree 4' from DER, 323' right of centerline, 5066' MSL.
Buildings, lighting, sign beginning 9' from DER, 122' left of centerline, up to 31' AGL/5057' MSL.
Tree, utility pole, sign, terrain beginning 19' from DER, 65' right of centerline, up to 28' AGL/5086' MSL.
Terrain, trees, building, lighting beginning 24' from DER, 111' left of centerline, up to 46' AGL/5062' MSL.
Terrain, road beginning 196' from DER, 317' left of centerline, up to 5069' MSL.
Trees beginning 302' from DER, 361' left of centerline, up to 45' AGL/5083' MSL.
Tower, road, trees, pole beginning 426' from DER, 267' left of centerline, up to 46' AGL/5092' MSL.
Terrain, trees beginning 2.1 NM from DER, 2368' right of centerline, up to 56' AGL/5656' MSL.
Rwy 21R, sign, terrain beginning 11' from DER, 82' left of centerline, up to 2' AGL/4977' MSL.
Sign, trees, road, building, electrical system, pole, tank beginning 11' from DER, 19' right of centerline, up to 50' AGL/5024' MSL.
Trees beginning 90' from DER, 70' left of centerline, up to 50' AGL/5041' MSL.
Trees, poles, building beginning 752' from DER, 22' right of centerline, up to 50' AGL/5031' MSL.
Tree, pole beginning 940' from DER, 3' left of centerline, up to 50' AGL/5044' MSL.
Trees, poles, building beginning 980' from DER, 22' right of centerline, up to 50' AGL/5044' MSL.
Fence, trees, poles, road, building, stack, tank beginning 1207' from DER, 35' right of centerline, up to 57' AGL/5054' MSL.
Trees, poles beginning 1561' from DER, left and right of centerline, up to 50' AGL/5064' MSL.
Trees beginning 1954' from DER, 129' left of centerline, 50' AGL/5064' MSL.
Trees beginning 2325' from DER, left and right of centerline, up to 50' AGL/5080' MSL.
Trees beginning 2615' from DER, 140' left of centerline, up to 50' AGL/5077' MSL.
Building, trees beginning 2718' from DER, 35' right of centerline, up to 50' AGL/5093' MSL.
Trees, pole beginning 3134' from DER, 128' left of centerline, up to 50' AGL/5090' MSL.
Trees, beginning 3442' from DER, 24' right of centerline, up to 50' AGL/5103' MSL.
Trees beginning 3527' from DER, 175' left of centerline, up to 50' AGL/5103' MSL.
Antenna, building, trees beginning 3772' from DER, left and right of centerline, up to 90' AGL/5116' MSL.
Trees beginning 4194' from DER, 145' right of centerline, up to 5113' MSL.
Trees beginning 4759' from DER, left and right of centerline, up to 75' AGL/5117' MSL.
Trees beginning 5180' from DER, 15' right of centerline, 70' AGL/5119' MSL.
Trees beginning 5408' from DER, 743' right of centerline, up to 50' AGL/5126' MSL.
Rwy 21L, lighting, fence beginning 30' from DER, 336' left of centerline, up to 7' AGL/5042' MSL.
Road, fence, tree beginning 111' from DER, 469' left of centerline, up to 5051' MSL.
Road, fence beginning 300' from DER, 455' left of centerline, up to 5056' MSL.
Wind indicator, pole, tree, roads beginning 402' from DER, 269' right of centerline, up to 5076' MSL.
Tree, fence, roads, lighting, pole, sign, NAVAID, building beginning 614' from DER, 41' left of centerline, up to 5113' MSL.
Trees, road beginning 782' from DER, 528' right of centerline, up to 47' AGL/5089' MSL.
Trees, road, pole, fence, electrical system, building, lighting, antenna beginning 971' from DER, 2' right of centerline, up to 70' AGL/5117 ' MSL.
Trees beginning 1779' from DER, 108' left of centerline, up to 71' AGL/5116' MSL.
Rwy 30, buildings, sign, poles beginning 28' from DER, 127' left of centerline, up to 25' AGL/5041' MSL.

PRESCOTT, AZ (CON'T)

PRESCOTT RGNL-ERNEST A LOVE FIELD (PRC) (CON'T)
DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG-A 20JUN19 (19171) (FAA)

Rwys 3L/R, heading as assigned by ATC.
Rwy 12, heading as assigned by ATC; requires minimum climb of 370' per NM to 7700.
Rwys 21L/R, heading as assigned by ATC; requires minimum climb of 390' per NM to 8300.
Rwy 30, heading as assigned by ATC.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 05MAR15 (15064) (FAA)

TAKEOFF MINIMUMS:
Rwy 1, std. w/min. climb of 400' per NM to 6800 or 3300-3 for climb in visual conditions.
Rwy 8, NA - obstacles.
Rwy 33, std. w/min. climb of 370' per NM to 6700 or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:
Rwy 1, climb to 6400 then climbing right turn on a heading between 144° CW to 187°, maintain 210 KIAS until completion of turn, thence . . .
Rwy 15, climb on a heading between 129° CW to 196°, thence . . .
Rwy 19, climb on a heading between 195° CCW to 128°, thence . . .
Rwy 26, climb on a heading between 179° CCW to 127°, thence . . .
Rwy 33, climb to 6300 then climbing left turn on a heading between 178° CCW to 148°, thence . . .
. . . continue climb to assigned altitude for direction of flight.

VCOA:
Rwys 1, 33, obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross Carbon County RGNL airport/Buck Davis Field at or above 9100 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 1, multiple trees and poles beginning 164' from DER, left and right of centerline, up to 64' AGL/6207' MSL.

PROVO, UT

PROVO MUNI (PVU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 30SEP04 (04274) (FAA)

DEPARTURE PROCEDURE:
Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 02JUL09 (09183) (FAA)

TAKEOFF MINIMUMS:
CAT A, B only, CAT C, D NA.
Rwys 8, 14, 1300-2 or std. with a min. climb of 400' per NM to 6500.
Rwy 26, 1900-2 or std. with a min. climb of 410' per NM to 7200.
Rwy 32, 2300-2 or std. with a min. climb of 420' per NM to 7200.

DEPARTURE PROCEDURE:
Rwys 8, 32, climbing right turn heading 100° and FMG VORTAC R-314 to FMG VORTAC.
Rwy 14, left turn climb direct FMG VORTAC.
Rwy 26, climbing right turn heading 050° and FMG VORTAC R-314 to FMG VORTAC.
All aircraft climb in FMG VORTAC holding pattern (NE, right turns, 221° inbound) to depart FMG VORTAC; R-260 CW R-170 at or above 10000; R-171 CW R-195 at or above 10500; R-196 CW R-259 at or above 12000.

RENO, NV (CON'T)

RENO/TAHOE INTL (RNO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 20DEC07 (07354) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, NA-terrain.

Rwy 16L, std. w/ min. climb of 730' per NM to 8000, or 600-1¼ w/ min. climb of 480' per NM to 8000, or 2700-3 for climb in visual conditions.

Rwy 16R, std. w/ the following minimum climb requirements: 210 knots or less, 385' per NM to 8000; more than 210 knots, 420' per NM to 8900, or 2700-3 for climb in visual conditions. Resume normal speed after passing FMG VORTAC.

Rwy 25, std. w/ min. climb of 470' per NM to 7800, or 2700-3 for climb in visual conditions.

Rwy 34L, std. w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

Rwy 34R, std. w/ min. climb of 480' per NM to 7000, or 500-1½ w/ min. climb of 320' per NM to 7000, or 2700-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwys 16L/R, climb heading 164° to 6600 then climbing left turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . .

Rwy 25, climb heading 254° to 5000 then climbing right turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . .

Rwys 34L/R, climb heading 344° to 7000 then climbing right turn direct FMG VORTAC, thence. . . or for climb in visual conditions: cross Reno/Tahoe Intl Airport at or above 7000 via heading 054° and FMG R-234 to FMG VORTAC, thence. . .

. . .**All aircraft:** continue climb in FMG VORTAC holding pattern (northeast, left turn, 221° inbound) to cross FMG VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 16L, multiple poles, trees, bushes and terrain beginning 618' from DER, 133' left of centerline, up to 20' AGL/4961' MSL

Rwy 16R, multiple trees 2784' from DER, 171' right of centerline, up to 20' AGL/4510' MSL.
Multiple trees and terrain beginning 746' from DER, 380' left of centerline, up to 20' AGL/4703' MSL.

Rwy 25, multiple trees and poles beginning 829' from DER, 201' right of centerline, up to 103' AGL/4523' MSL.
Building 6023' from DER, 456' right of centerline, 152' AGL/4608' MSL.
Fence 222' from DER, 270' right of centerline, up to 5' AGL/4415' MSL.
Multiple trees and poles beginning 500' from DER, 31' left of centerline, up to 20' AGL/4506' MSL.

Rwy 34L, multiple trees and poles beginning 1229' from DER, 180' right of centerline, up to 20' AGL/4498' MSL.
Multiple trees beginning 1193' from DER, 331' left of centerline, up to 20' AGL/4489' MSL.

Rwy 34R, multiple trees and poles beginning 1067' from DER, 172' right of centerline, up to 20' AGL/4497' MSL.
Multiple trees and poles beginning 1230' from DER, 350' left of centerline, up to 20' AGL/4498' MSL.
Building 1.2 NM from DER, 1730' right of centerline, 363' AGL/4780' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 08JAN15 (15008) (FAA)

Rwy 25, heading as assigned by ATC; requires minimum climb of 500' per NM to 8100.

Rwy 34L, heading as assigned by ATC; requires minimum climb of 460' per NM to 7700.

Rwy 34R, heading as assigned by ATC; requires minimum climb of 410' per NM to 8100.

RICHFIELD, UT

RICHFIELD MUNI (RIF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JUN08 (08157) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, use RICHFIELD (RNAV) DEPARTURE.

Rwy 19, use HAMET (RNAV) DEPARTURE.

ROOSEVELT, UT

ROOSEVELT MUNI (74V)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 7, std.

Rwy 25, std. w/min. climb of 300' per NM to 6100 or 1300-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 7, turn right.

Rwy 25, turn left.

All aircraft, climb direct MTU VOR/DME. Aircraft departing MTU VOR/DME R-040 CW R-150, Climb on course. All others continue climb in MTU holding pattern (NE, right turns, 213° inbound) to cross MTU VOR/DME; R-151 CW R-290 at or above 8000; R-291 CW R-039 at or above 10000. Then climb on course.

VCOA:

Rwy 25, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Roosevelt Muni airport southbound at or above 6300 on MTU R-010 to MTU VOR/DME, continue climb in hold (NE, right turns, 213° inbound) to MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 7, NAVAID 38' from DER, 110' left of centerline, 5' AGL/5111' MSL.

Vehicles on road beginning 76' from DER, 250' left of centerline, up to 15' AGL/5122' MSL.

Rwy 25, NAVAID 39' from DER, 112' left of centerline, 2' AGL/5177' MSL.

Tree 95' from DER, 384' left of centerline, 9' AGL/5179' MSL.

Trees beginning 180' from DER, 403' left and right of centerline, up to 22' AGL/5192' MSL.

Tree, building, vehicle on road, pole beginning 5668' from DER, 1461' right of centerline, up to 45' AGL/5345' MSL.

Trees, poles, buildings, vehicle on road beginning 1 NM from DER, 1031' right of centerline, up to 100' AGL/5410' MSL.

Tree, vehicle on road, terrain beginning 1.2 NM from DER, 1904' right of centerline, up to 16' AGL/5416' MSL.

Poles, tree, vehicle on road beginning 1.3 NM from DER, 1915' right of centerline, up to 56' AGL/5426' MSL.

Trees beginning 1.5 NM from DER, 1553' right of centerline, up to 55' AGL/5485' MSL.

Trees beginning 1.8 NM from DER, 1871' right of centerline, up to 53' AGL/5493' MSL.

Tree 1.9 NM from DER, 1987' right of centerline, 20' AGL/5483' MSL.

SAFFORD, AZ

SAFFORD RGNL (SAD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:

Rwys 8, 26, NA - Airspace.

DEPARTURE PROCEDURE:

Rwys 12, 30, use SAFFORD RNAV DEPARTURE.

ST. GEORGE, UT

ST. GEORGE RGNL (SGU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26MAY16 (16147) (FAA)

DEPARTURE PROCEDURE:

Use JITKA DEPARTURE.

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1B 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwys 3, 32, 14, std.

Rwy 21, 700-2¾ or standard w/min. climb of 378' per NM to 6600.

DEPARTURE PROCEDURE:

Rwys 3, 32, climbing right turn.

Rwys 14, 21, climbing left turn.

All aircraft, climb direct SJN VORTAC. Aircraft departing SJN VORTAC R-240 CW to R-080 Climb on course. All others continue climb in SIN VORTAC holding pattern (hold NE, right turns, 239° inbound) to cross SJN VORTAC at or above 9000.

TAKEOFF OBSTACLE NOTES:

Rwy 3, sign 15' from DER, 125' left of centerline, 3' AGL/5736' MSL.

Rwy 14, vehicle on road 1' from DER, 113' right of centerline, up to 15' AGL/5750' MSL.

Tree, fence, post, obstruction light on building, ant on building and transmission line tower beginning 27' from DER, 94' left of centerline, up to 5780' MSL.

Airport beacon lighted, tower, pole, windsock, building, obstruction light on building, light pole, transmission light tower and tree, beginning 58' from DER, 88' right of centerline, up to 57' AGL/5793' MSL.

Vehicle on road 67' from DER, crossing centerline, 15' AGL/5752' MSL.

Trees and poles beginning 515' from DER, 73' left of centerline, up to 76' AGL/5784' MSL.

Vehicle on road 559' from DER, crossing centerline, 15' AGL/5762' MSL.

CON'T

ST. JOHNS, AZ (CON'T)

ST. JOHNS INDUSTRIAL AIR PARK (SJN) (CON'T)

Rwy 32, vehicle on road and generator utility beginning 34' from DER, 3' right of centerline, up to 15' AGL/5745' MSL.
Generator utility 40' from DER, 79' left of centerline, 10' AGL/5736' MSL.
Vehicle on road 102' from DER, crossing centerline, 15' AGL/5741' MSL.
Buildings beginning 201' from DER, 327' left of centerline up to 5743' MSL.
Pole 307' from DER, 570' left of centerline, up to 30' AGL/5757' MSL.
Rwy 21, tree and fence 15' from DER, 248' left of centerline, 5767' MSL.
Trees and buildings beginning 23' from DER, 276' right of centerline, up to 5798' MSL.
Trees beginning 92' from DER, 27' left of centerline, up to 5778' MSL.
Fence beginning 208' from DER, crossing centerline, up to 5738' MSL.
Vehicles on road 265' from DER, crossing centerline, 15' AGL/5756' MSL.
Trees, buildings, signs and poles beginning 285' from DER, 2' right of centerline, up to 5781' MSL.
Trees, buildings, signs and poles beginning 597' from DER, 3' left of centerline, up to 5780' MSL.
Trees, buildings and poles beginning 808' from DER, 10' right of centerline, up to 5833' MSL.
Trees, buildings and poles beginning 867' from DER, 3' left of centerline, up to 5788' MSL.
Trees beginning 1257' from DER, 20' left of centerline, up to 5816' MSL.
Buildings, poles and trees beginning 3704' from DER, 662' right of centerline, up to 5914' MSL.
Poles beginning 3491' from DER, 1293' left of centerline, up to 5872' MSL.
Communications tower 2.2 NM from DER, 1415' left of centerline, 199' AGL/6356' MSL.
Pole 2.2 NM from DER, 1467' left of centerline, 31' AGL/6133' MSL.

SALT LAKE CITY, UT

SALT LAKE CITY INTL (SLC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 11A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:
Rwy 32, 400-1 or std. w/ min. climb of 498' per NM to 4700.

DEPARTURE PROCEDURE:
Rwy 14, climb to 10000 on heading 192° and FFU R-341 to FFU VORTAC before proceeding on course.
Rwy 16R, climb to 10000 on heading 164° and FFU R-341 to FFU VORTAC before proceeding on course.
Rwy 16L, climb to 10000 on heading 164° and FFU R-341 to FFU VORTAC before proceeding on course.
Rwy 17, climb to 10000 on heading 169° and FFU R-341 to FFU VORTAC before proceeding on course.
Rwy 32, climb to 9000 on heading 002° and OGD R-153 to OGD VORTAC before proceeding on course.
Rwy 34L, climb to 9000 on heading 344° and OGD R-153 to OGD VORTAC before proceeding on course.
Rwy 34R, climb to 9000 on heading 344° and OGD R-153 to OGD VORTAC before proceeding on course.
Rwy 35, climb to 9000 on heading 339° and OGD R-153 to OGD VORTAC before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 14, antenna 1349' from DER, 544' left of centerline, 42' AGL/4263' MSL.
Rwy 16L, vehicle on road 124' from DER, 14' right of centerline, 15' AGL/4239' MSL.
Light pole 988' from DER, 726' right of centerline, 34' AGL/4254' MSL.
Pole 1024' from DER, 689' right of centerline, 34' AGL/4254' MSL.
Rwy 17, vehicles on road beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL.
Rwy 32, ATC tower 5,266' from DER, 1767 left of centerline, 335' AGL/4549' MSL.
Crane 5196' from DER, 1630' left of centerline, 240' AGL/4463' MSL.
Flag on OL 5,153' from DER, 1619' left of centerline, 249' AGL/4463' MSL.
Aircraft beginning 969' from DER, 722' left of centerline, up to 79' AGL/4306' MSL.
Rwy 34R, post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL.
Rwy 35, post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 14SEP17 (17257)
Rwys 14, 16L/R, 17, 34L/R, 35, heading as assigned by ATC.

SALT LAKE CITY, UT (CON'T)

SOUTH VALLEY RGNL (U42)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 01FEB18 (18032) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, std. w/ min. climb of 300' per NM to 10700.

Rwy 34, std. w/ min. climb of 330' per NM to 9000.

DEPARTURE PROCEDURE:

Rwy 16, climbing left turn to 10700 on FFU VORTAC R-341 to FFU VORTAC, continue climb in FFU VORTAC holding pattern (hold S, right turn, 008° inbound) to cross FFU VORTAC at or above MEA/MCA for route of flight.

Rwy 34, climbing right turn to 9000 on TCH VORTAC R-161 to TCH VORTAC, continue climb in TCH VORTAC holding pattern (hold NW, right turn, 120° inbound) to cross TCH VORTAC at or above MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 16, NAVAID abeam DER, 99' right of centerline, 4602' MSL.
Terrain, sign beginning 34' from DER, 207' right of centerline, up to 4606' MSL.
Vehicle on road 83' from DER, 252' left of centerline, 4611' MSL.
Vehicle on road 171' from DER, 132' left of centerline, 4614' MSL.
Pole 551' from DER, 631' right of centerline, 15' AGL/4626' MSL.
Vehicle on road, vegetation beginning 672' from DER, 490' right of centerline, up to 4629' MSL.
Pole 1000' from DER, 638' right of centerline, 4638' MSL.
Pole 1008' from DER, 466' right of centerline, 31' AGL/4640' MSL.
Pole beginning 1092' from DER, 687' right of centerline, up to 31' AGL/4644' MSL.
Rwy 34, NAVAID 10' from DER, 96' left of centerline, 4606' MSL.
NAVAID 10' from DER, 94' right of centerline, 4604' MSL.
Terrain 58' from DER, 424' left of centerline, 4608' MSL.

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE: Use MARICOPA DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1,554 MSL.
Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1,561' MSL.
Dike beginning 1,066' from DER, 316' left of centerline, 38' AGL/1548' MSL.
Day marker on dike, 1,230' from DER, 5' left of centerline, 39' AGL/1,549' MSL.
Tree 765' from DER,115' left of centerline, 22' AGL/1,532' MSL.
Road beginning 647' from DER, 296' left of centerline, 19' AGL/1,529' MSL.
Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1,511' MSL.
Light standard 1,013' from DER, 430' right of centerline, 44' AGL/1,552' MSL.
Rwy 21, trees 1,072' from DER, 426' right of centerline, 53' AGL/1,497' MSL.
Building 316' from DER, 537' right of centerline, 23' AGL/1,467' MSL.
Tree 2,087' from DER, 418' left of centerline, 61' AGL/1,505' MSL.
Tree 1,432' from DER, 438' right of centerline, 38' AGL/1,482' MSL.
Tree 2,234' from DER, 559' left of centerline, 58' AGL/1,502' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 13NOV14 (14317) (FAA)

Rwy 3, heading as assigned by ATC; requires minimum climb of 445' per NM to 4600.

Rwy 21, heading as assigned by ATC; do not exceed 210 KTS until established on assigned heading.

SEDONA, AZ

SEDONA (SEZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10APR08 (08101) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, NA- Obstacles.

DEPARTURE PROCEDURE:

Rwy 21, Use OATES RNAV DEPARTURE.

SHOW LOW, AZ

SHOW LOW RGNL (SOW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 19JUL08 (18200) (FAA)

DEPARTURE PROCEDURE:

Rwy 4, climbing left turn heading 360° to 7800 before proceeding on course.
Rwy 7, climbing left turn heading 360° to 8100 before proceeding on course.
Rwy 22, climbing right turn heading 255° to 7700 before proceeding on course.
Rwy 25, climb on heading 246° to 7600 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, sign, building, fence, pole beginning 44' from DER, 183' right of centerline, up to 6' AGL/6406' MSL.
Tree 88' from DER, 488' left of centerline, 6411' MSL.
Trees beginning 185' from DER, 428' left of centerline, up to 6417' MSL.
Pole 240' from DER, 222' right of centerline, 16' AGL/6411' MSL.
Rwy 7, general utility 39' from DER, 92' right of centerline, 19' AGL/6402' MSL.
General utility 40' from DER, 88' left of centerline, 20' AGL/6402' MSL.
Rwy 22, tree 94' from DER, 197' left of centerline, 6424' MSL.
Trees beginning 133' from DER, 87' right of centerline, up to 6420' MSL.
Pole 397' from DER, 141' left of centerline, 23' AGL/6426' MSL.
Pole 469' from DER, 166' left of centerline, 27' AGL/6430' MSL.
Building 677' from DER, 423' left of centerline, 24' AGL/6433' MSL.
Elevator, tank, pole beginning 1191' from DER, 5' left of centerline, up to 63' AGL/6496' MSL.
Rwy 25, pole 10' from DER, 29' right of centerline, 18' AGL/6401' MSL.
Pole 640' from DER, 310' right of centerline, 6418' MSL.
Pole 644' from DER, 307' right of centerline, 37' AGL/6419' MSL.
Pole beginning 704' from DER, 677' left of centerline, up to 53' AGL/6437' MSL.
Pole, catenary beginning 726' from DER, 3' left of centerline, up to 54' AGL/6438' MSL.
Pole 760' from DER, 158' right of centerline, 47' AGL/6430' MSL.
Pole 763' from DER, 159' right of centerline, 49' AGL/6432' MSL.
Pole, catenary beginning 764' from DER, 77' right of centerline, up to 54' AGL/6437' MSL.
Pole beginning 842' from DER, 317' right of centerline, up to 57' AGL/6438' MSL.

SILVER SPRINGS, NV

SILVER SPRINGS (SPZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27APR17 (17117) (FAA)

TAKEOFF MINIMUMS:

Rwy 24, 2800-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 6, climb heading 056° to intercept HZN R-220 to 8000. Continue climb in HZN VORTAC holding pattern (hold NE, RT, 211° inbound) to cross HZN VORTAC at or above MEA for route of flight.

VCOA:

Rwy 24, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Silver Springs Airport at or above 6900, then proceed on HZN VORTAC R-220 to 8000 to HZN VORTAC.

TAKEOFF OBSTACLE NOTES:

Rwy 6, windsock and sign beginning 29' from DER, 204' left of centerline, up to 23' AGL/4235' MSL.
Rwy 24, terrain 52' from DER, 495' right of centerline, 4267' MSL.
Pole 2258' from DER, 938' right of centerline, 33' AGL/4324' MSL.
Pole 2277' from DER, 883' right of centerline, 38' AGL/4328' MSL.

SPANISH FORK, UT

SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Use SPANISH FORK DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 12, lighting 10' from DER, 29' left of centerline, 2' AGL/4530' MSL.
Fence 60' from DER, 481' right of centerline, 4535' MSL.
Building 198' from DER, 449' right of centerline, 12' AGL/4541' MSL.
Sign, building beginning 297' from DER, 461' right of centerline, up to 4552' MSL.
Building 1023' from DER, 600' right of centerline, 4555' MSL.
Tree 1031' from DER, 651' left of centerline, 4563' MSL.
Tree, building beginning 1140' from DER, 503' left of centerline, up to 4565' MSL.
Building 1173' from DER, 560' right of centerline, 4559' MSL.
Building 1434' from DER, 855' right of centerline, 4572' MSL.
Tree 1514' from DER, 742' left of centerline, 4568' MSL.
Pole 1818' from DER, 352' right of centerline, 4576' MSL.
Pole beginning 3232' from DER, 1134' right of centerline, up to 4621' MSL.
Pole, sign beginning 3499' from DER, 801' left of centerline, up to 106' AGL/4673' MSL.

CON'T

SPANISH FORK, UT (CON'T)

SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK) (CON'T)

Rwy 12 (CON'T), electrical system 3922' from DER, 628' right of centerline, 4637' MSL.
Pole 4450' from DER, 893' right of centerline, 4649' MSL.
Pole 4709' from DER, 1365' right of centerline, 4662' MSL.
Pole 5162' from DER, 1194' right of centerline, 4664' MSL.
Pole 2 NM from DER, 3639' left of centerline, 4853' MSL.
Rwy 30, lighting 9' from DER, 29' right of centerline, 2' AGL/4525' MSL.
Vegetation 36' from DER, 145' right of centerline, 9' AGL/4527' MSL.
Tree 750' from DER, 557' left of centerline, 4546' MSL.
Pole 1182' from DER, 595' left of centerline, 50' AGL/4570' MSL.
Pole beginning 1479' from DER, 268' left of centerline, up to 60' AGL/4579' MSL.
Tree 1505' from DER, 550' right of centerline, 49' AGL/4565' MSL.

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI (JTC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15AUG96 (96228) (FAA)

TAKEOFF MINIMUMS:
Rwy 21, 1000-2 or std. with a min. climb of 360' per NM to 8400.

DEPARTURE PROCEDURE:
Rwys 3, 11, climbing left turn to 8400 via heading 360° before proceeding on course.
Rwys 21, 29, climbing right turn to 8400 via 360° before proceeding on course.

TAYLOR, AZ

TAYLOR (TYL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05MAY11 (11125) (FAA)

TAKEOFF MINIMUMS:
Rwy 21, 300-1 or std. w/min. climb of 290' per NM to 6100.

DEPARTURE PROCEDURE:
Rwy 3, climb heading 030° to 8000 before turning on course.
Rwy 21, climb heading 210° to 8000 before turning on course.

TAKEOFF OBSTACLE NOTES:
Rwy 3, vehicles on road beginning 1823' from DER, 698' right of centerline, up to 17' AGL/5726' MSL.
Power lines crossing departure course 1000' from DER.
Rwy 21, trees beginning 1132' from DER, 316' right of centerline, up to 12' AGL/5871' MSL.

TONOPAH, NV

TONOPAH (TPH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:
Rwys 11, 29, NA - ATC.
Rwy 15, std. with a min. climb of 320' per NM to 9100 or 2500-3 for VCOA.
Rwy 33, std. with a min. climb of 352' per NM to 9100 or 2500-3 for VCOA.

DEPARTURE PROCEDURE:
Rwy 15, climbing left turn direct TONOPAH (TPH) VORTAC thence...
Rwy 33, climbing right turn direct TONOPAH (TPH) VORTAC thence...
...continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

VCOA:
Rwy 15, 33, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Tonopah airport at or above 7800 direct TONOPAH VORTAC, continue climb in TPH holding pattern (NE, RT, 246° inbound) to cross TPH VORTAC at or above 9300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 15, transmission line tower 515' from DER, 473' left of centerline, 23' AGL/5418' MSL.
Rwy 33, fence beginning 173' from DER, 401' right of centerline, 6' AGL/5438' MSL.

TONOPAH TEST RANGE (KTNX)

TONOPAH, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 19JUL18 (18200)

DEPARTURE PROCEDURE:

Rwy 14, 1000-3 with min. climb of 320 ft/NM to 10,700 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 325º CW to 155º from DER or Climb in Visual Conditions to cross KZ - KTNX airport at or above 8100 MSL before proceeding on course.

Rwy 32, 1000-3 with min. climb of 260 ft/NM to 5900 or 2700-3 for Climb in Visual Conditions. Climb on a heading between 295º CW to 005º from DER or Climb in Visual Conditions to cross KZ-KTNX airport at or above 8100 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, terrain 1204' from DER, 823' right of cntrln, 5582' MSL.
Terrain 63' from DER, 517' right of cntrln, 5565' MSL.
Terrain 46' from DER, 480' right of cntrln, 5564' MSL.
Terrain 0' from DER, 353' right of cntrln, 5561' MSL.
Terrain 62' from DER, 200' right of cntrln, 5558' MSL.
Terrain 14' from DER, 292' right of cntrln, 5561' MSL.
Terrain 0' from DER, 287' right of cntrln, 5561' MSL.
Terrain 0' from DER, 222' right of cntrln, 5559' MSL.
Surveyed terrain 215' from DER, 427' right of cntrln, 5560' MSL.
Rwy 32, terrain 0' from DER, 500' left of cntrln, 5476' MSL.
Terrain 19' from DER, 465' left of cntrln, 5476' MSL.
Terrain 110' from DER, 529' left of cntrln, 5476' MSL.

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY (TVY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22AUG13 (13234) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w/min. climb of 348' per NM to 9000 or 5600-3 for climb in visual conditions.

Rwy 35, std. w/min. climb of 380' per NM to 9000 or 5600-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 17, climbing right turn to 9000 on heading 337° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

Rwy 35, climbing left turn to 9000 on heading 300° and OGD VORTAC R-197 to STACO INT, or for climb in visual conditions: cross Bolinder Field-Tooele Valley airport at or above 9800' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 17, tree 230' from DER, 255' right of centerline, 35' AGL/4335' MSL.
Tree 342' from DER, 363' right of centerline, 35' AGL/4360' MSL.
Trees beginning 601' from DER, 486' right of centerline, up to 35' AGL/4399' MSL.
Pole 1000' from DER, 409' left of centerline, 42' AGL/4363' MSL.
Pole 1092' from DER, 118' right of centerline, 42' AGL/4363' MSL.
Tree 1369' from DER, 393' right of centerline, 35' AGL/4381' MSL.
Tree 2018' from DER, 257' right of centerline, 35' AGL/4384' MSL.

TUCSON, AZ

RYAN FIELD (RYN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 29JUL10 (10210) (FAA)

TAKEOFF MINIMUMS:

Rwys 6L, 15, 24R, 33, NA, ATC.

DEPARTURE PROCEDURE:

Rwys 6R, 24L, use ALMON DEPARTURE.

TUCSON, AZ (CON'T)

TUCSON INTL (TUS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 26JUL12 (12208) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, 300-2 or std. w/min. climb of 228' per NM to 3000.

DEPARTURE PROCEDURE:

Rwys 3, 29L/R, climbing right turn direct to TUS VORTAC…

Rwy 21, climbing left turn direct to TUS VORTAC …

Rwys 11L/R, climb heading 123° to 4000 then climbing left turn direct TUS VORTAC …

... Climb in TUS VORTAC holding pattern (hold NW, right turns, 128° inbound) to 9000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, multiple trees and sign beginning 1385' from DER, 127' left of centerline, up to 41' AGL/2611' MSL.
Tree 2062' from DER, 332' right of centerline, 46' AGL/2626' MSL.
Rwy 11L, vents 115' from DER, 147' left and right of centerline, 6' AGL/2646' MSL.
Multiple bushes beginning 449' from DER, 395' left of centerline, up to 24' AGL/2674' MSL.
Multiple bushes beginning 188' from DER, 328' right of centerline, up to 13' AGL/2663' MSL.
Rwy 11R, tree 584' from DER, 176' right of centerline, 25' AGL/2645' MSL.
Rwy 21, bush 104' from DER, 256' left of centerline, 12' AGL/2572' MSL.
RR 248' from DER, right to left of centerline, 23' AGL/2582' MSL.
Bush 549' from DER, 384' left of centerline, 33' AGL/2583' MSL.
Tree 701' from DER, 144' left of centerline, 37' AGL/2587' MSL.
Pole 950' from DER, 166' left of centerline, 38' AGL/2588' MSL.
Pole 1028' from DER, 89' left of centerline, 46' AGL/2599' MSL.
Pole 1298' from DER, 594' left of centerline, 66' AGL/2616' MSL.
Electrical system 1445' from DER, 319' left of centerline, 55' AGL/2605' MSL.
Bush 141' from DER, 330' right of centerline, 24' AGL/2574' MSL.
Bush 454' from DER, 138' right of centerline, 26' AGL/2576' MSL.
Electrical system 1176' from DER, 37' right of centerline, 48' AGL/2598' MSL.
Rwy 29L, aircraft on ramp 2723' from DER, 348' left of centerline, up to 30' AGL/2680' MSL.
Rwy 29R, aircraft on ramp 2779' from DER, 1056' left of centerline, up to 30' AGL/2680' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 28FEB19 (19059) (FAA)

Rwy 3, heading as assigned by ATC; requires minimum climb of 228' per NM to 3000.
Rwys 11L/R, 21, heading as assigned by ATC.
Rwy 29L, heading as assigned by ATC; requires minimum climb of 300' per NM to 4500.
Rwy 29R, heading as assigned by ATC; requires minimum climb of 300' per NM to 4400.

VERNAL, UT

VERNAL RGNL (VEL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 07DEC17 (17341) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w /min. climb of 210' per NM to 6000, or alternatively with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER or 2200-3 for VCOA.
Rwy 35, std. w/ min. climb of 410' per NM to 7700 or 2200-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn direct VEL VOR/DME, thence . . .
Rwy 35, climbing right turn direct VEL VOR/DME, thence . . .
. . . on VEL VOR/DME R-142 to ENSEN INT/VEL 9.7 DME and hold (hold SE, right turn, 322° inbound). Continue Climb-in-hold to the MEA/MCA for route of flight.

VCOA:

Rwys 17, 35, obtain ATC approval for VCOA when requesting IFR clearance: Climb in visual conditions to cross Vernal RGNL Airport at or above 7300, then continue climb on VEL VOR/DME R-142 until reaching the MEA/MCA for route of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 17, terrain beginning 19' from DER, 140' right of centerline, up to 5290' MSL.
Terrain and agricultural equipment beginning 118' from DER, 15' left of centerline, up to 6' AGL/5284' MSL.
Tree 1333' from DER, 295' left of centerline, 5315' MSL.
Tree 1378' from DER, 221' left of centerline, 5317' MSL.
Tree 1456' from DER, 112' left of centerline, 5318' MSL.
Tree 1498' from DER, 32' left of centerline, 5320' MSL.
Poles beginning 1948' from DER, 46' right of centerline, up to 35' AGL/5334' MSL.
Trees beginning 2411' from DER, 19' left of centerline, up to 5370' MSL.
Tree 2439' from DER, 296' right of centerline, 5339' MSL.
Tree 2468' from DER, 288' right of centerline, 5341' MSL.
Trees beginning 2497' from DER, 290' right of centerline, up to 5344' MSL.
Trees beginning 2511' from DER, 105' left of centerline, up to 5374' MSL.

CON'T

VERNAL, UT (CON'T)

VERNAL RGNL (VEL) (CON'T)

Rwy 17 (CON'T), tree 2534' from DER, 361' right of centerline, 5355' MSL.
Tree 2553' from DER, 355' right of centerline, 5362' MSL.
Trees beginning 2573' from DER, 323' right of centerline, up to 5370' MSL.
Trees beginning 4620' from DER, 71' left of centerline, up to 5397' MSL.
Tree 4749' from DER, 184' right of centerline, 5401' MSL.
Tree 4895' from DER, 65' left of centerline, 5403' MSL.
Rwy 35, pole 178' from DER, 153' left of centerline, 5290' MSL.
Tree and pole beginning 934' from DER, 625' right of centerline, up to 5302' MSL.

WENDOVER, UT

WENDOVER (ENV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 31MAR16 (16091) (FAA)

TAKEOFF MINIMUMS:
Rwy 26, std. w/min. climb of 300' per NM to 5900.
Rwy 30, NA-ATC.

DEPARTURE PROCEDURE:
Rwys 8, 12, 26, climbing left turn direct BVL VORTAC, thence…
...continue climb in holding pattern (hold NE, right turns, 253° inbound) to cross BVL VORTAC at/above MEA for route of flight.

TAKEOFF OBSTACLE NOTES:
Rwy 12, bush 92' from DER, 258' left of centerline, 4' AGL/4227' MSL.
Rwy 26, tree 100' from DER, 500' right of centerline, 11' AGL/4240' MSL.
Bush 90' from DER, 278' left of centerline, 4' AGL/4233' MSL.

WILLCOX, AZ

COCHISE COUNTY (P33)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 02MAY13 (13122) (FAA)

TAKEOFF MINIMUMS:
Use COCHISE DEPARTURE.

WINDOW ROCK, AZ

WINDOW ROCK (RQE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05DEC19 (19339) (FAA)

TAKEOFF MINIMUMS:
Rwy 3, 800-3 w/min. climb of 385' per NM to 8100 or std. w/min. climb of 565' per NM to 7700 or 1600-3 for VCOA.
Rwy 21, std. w/min. climb of 285' per NM to 8100 or 1600-3 for VCOA.

DEPARTURE PROCEDURE:
Rwy 3, climb on heading 025° to 7500, then right turn to intercept GUP VORTAC R-321 to GUP VORTAC before proceeding on course.
Rwy 21, climb on heading 205° to 7400 then left turn direct GUP VORTAC before proceeding on course.

VCOA:
Rwys 3, 21, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Window Rock Airport at or above 8200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 3, vegetation beginning 32' from DER, 73' left of centerline, up to 6745' MSL.
Building 416' from DER, 609' right of centerline, 19' AGL/6766' MSL.
Poles beginning 477' from DER, 344' right of centerline, up to 33' AGL/6772' MSL.
Tree, pole beginning 1336' from DER, 114' left of centerline, up to 6796' MSL.
Sign 1380' from DER, 109' right of centerline, 29' AGL/6777' MSL.
Pole 1448' from DER, 291' right of centerline, 39' AGL/6788' MSL.
Tree 1586' from DER, 392' left of centerline, 6806' MSL.
Sign, pole beginning 1774' from DER, 225' right of centerline, up to 52' AGL/6805' MSL.
Pole 1868' from DER, 746' left of centerline, 38' AGL/6823' MSL.
Pole 3038' from DER, 91' right of centerline, 40' AGL/6824' MSL.
Pole 3356' from DER, 457' left of centerline, 31' AGL/6840' MSL.
Tree 3532' from DER, 613' left of centerline, 6850' MSL.
Tree 3801' from DER, 682' left of centerline, 6871' MSL.
Vertical structure, poles beginning 3832' from DER, 57' right of centerline, up to 6926' MSL.
Pole 4044' from DER, 310' left of centerline, 44' AGL/6874' MSL.
Tree 4616' from DER, 625' left of centerline, 6888' MSL.
Vertical structure 5938' from DER, 147' right of centerline, 7024' MSL.
Pole, vertical structures, towers beginning 1 NM from DER, 59' left of centerline, up to 6' AGL/7083' MSL.
Tower, tree beginning 1.1 NM from DER, 102' right of centerline, up to 103' AGL/7096' MSL.
Trees beginning 1.3 NM from DER, 2063' right of centerline, up to 50' AGL/7309' MSL.

CON'T

WINDOW ROCK, AZ (CON'T)

WINDOW ROCK (RQE) (CON'T)

Rwy 3 (CON'T), vertical structures beginning 1.4 NM from DER, 1852' left of centerline, up to 7127' MSL.
Trees beginning 1.4 NM from DER, 121' right of centerline, up to 50' AGL/7369' MSL.
Vertical structure, tree beginning 1.5 NM from DER, 628' left of centerline, up to 50' AGL/7139' MSL.
Trees beginning 1.6 NM from DER, 875' right of centerline, up to 50' AGL/7375' MSL.
Tree 1.8 NM from DER, 357' left of centerline, 50' AGL/7351' MSL.
Tree 1.9 NM from DER, 77' left of centerline, 50' AGL/7369' MSL.
Tree 2.1 NM from DER, 26' left of centerline, 50' AGL/7429' MSL.
Tree 2.4 NM from DER, 2921' right of centerline, 50' AGL/7449' MSL.
Rwy 21, tree 955' from DER, 382' left of centerline, 6736' MSL.
Tree 1018' from DER, 620' left of centerline, 6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI (WMC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JAN20 (20030) (FAA)

DEPARTURE PROCEDURE:

Use WINNEMUCCA departure.

TAKEOFF OBSTACLE NOTES:

Rwy 2, tree, NAVAID, beginning 3' from DER, 113' right of centerline, up to 4356' MSL.
NAVAID 39' from DER, 118' left of centerline, 8' AGL/4311' MSL.
Tree 81' from DER, 402' right of centerline, 4357' MSL.
Tree, vehicles on traverse way beginning 98' from DER, 230' right of centerline, up to 4373' MSL.
Tree 1177' from DER, 576' left of centerline, 4346' MSL.
Tree 1265' from DER, 763' left of centerline, 4349' MSL.
Tree 1404' from DER, 647' left of centerline, 4360' MSL.
Rwy 14, pole 1' from DER, 24' left of centerline, 4304' MSL.
NAVAID 40' from DER, 126' left of centerline, 4305' MSL.
Vehicles on traverse way, vegetation, trees beginning 58' from DER, 183' left of centerline, up to 40' AGL/4322' MSL.
Vehicles on traverse way beginning 343' from DER, 77' left of centerline, up to 4325' MSL.
Rwy 20, tree 26' from DER, 406' right of centerline, 4306' MSL.
Trees beginning 46' from DER, 63' right of centerline, up to 40' AGL/4329' MSL.
Pole 65' from DER, 385' left of centerline, 8' AGL/4311' MSL.
Rwy 32, NAVAID 39' from DER, 123' left of centerline, 3' AGL/4303' MSL.
Vegetation 77' from DER, 351' left of centerline, 4304' MSL.
Tree 166' from DER, 478' right of centerline, 4306' MSL.
Vehicles on traverse way beginning 184' from DER, 405' left of centerline, up to 4314' MSL.
Vehicles on traverse way, 273' from DER, 267' right of centerline, up to 4316' MSL.

WINSLOW, AZ

WINSLOW-LINDBERGH RGNL (INW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11DEC14 (14345) (FAA)

DEPARTURE PROCEDURE:

Rwy 22, climb to 6000, then right turn direct INW VORTAC and hold, thence . . .
Rwy 4, climb to 6000, then left turn direct INW VORTAC and hold, thence . . .
Rwys 11, 29, climb to 6000, then direct INW VORTAC and hold, thence . . .
. . . continue climb-in-hold (hold West, right turns, 068° inbound) to 8900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, vehicle on road beginning 389' from DER, 329' right of centerline, 15' AGL/4894' MSL.
Trees beginning 120' from DER, 398' right of centerline, 100' AGL/4901' MSL.
Tank 3681' from DER, 1304' right of centerline, 129' AGL/5014' MSL.
Grain silo 2901' from DER, 25' right of centerline, up to 4957' MSL.
Obstruction light on hopper 2908' from DER, 27' right of centerline, up to 4955' MSL.
Chimney 2899' from DER, 28' right of centerline, up to 4953' MSL.
Light support structure 13' from DER, 55' left of centerline, up to 4871' MSL.
Light support structure 13' from DER, 56' right of centerline, up to 4871' MSL.
Vertical point 234' from DER, 14' left of centerline, up to 4876' MSL.
Rwy 29, tree 332' from DER, 589' left of centerline 100' AGL/4915' MSL.
Trees beginning 385' from DER, 124' right of centerline, 100' AGL/4923' MSL.
Vehicle on road beginning 31' from DER, 389' right of centerline 15' AGL/4920' MSL.
REIL abeam DER, 139' left of centerline, up to 4904' MSL.
Bush 38' from DER, 179' right of centerline, up to 4903' MSL.
Pole 2132' from DER, 1052' right of centerline, up to 4956' MSL.
Vertical point 241' from DER, 318' right of centerline, up to 4907' MSL.
Ground 71' from DER, 456' left of centerline, up to 4902' MSL.
Rwy 4, light 4' from DER, 425' left of centerline, up to 4920' MSL.
Obstruction light on lighted windsock 12' from DER, 424' left of centerline, up to 4918' MSL.
Tree 34' from DER, 263' left of centerline, 100' AGL/4901' MSL.
Tower 2740' from DER, 1086' left of centerline, up to 4968' MSL.
Ground 42' from DER, 455' left of centerline, up to 4892' MSL.

CON'T

WINSLOW, AZ (CON'T)

WINSLOW-LINDBERGH RGNL (INW) (CON'T)

Rwy 22, poles beginning 1575' from DER, 360' right of centerline, up to 5010' MSL.
Antenna 1867' from DER 360' right of centerline up to 5019' MSL.
Vehicle on road beginning 198' from DER, 12' right of centerline, 15' AGL/4994' MSL.
Vehicle on road beginning 499' from DER, 93' left of centerline, 15' AGL/4962' MSL.
Tree 1746' from DER, 581' right of centerline, 100' AGL/4993' MSL.
Vertical point 31' from DER, 479' left of centerline, up to 4946' MSL.
Building 525' from DER, 528' right of centerline, up to 4956' MSL.
Light support structures 10' from DER, 54' right of centerline, up to 4942' MSL.

YUMA MCAS/ YUMA INTL (KNYL)

YUMA, AZ

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

24MAY18 (18144)

DEPARTURE PROCEDURE:

Rwys 3L, 3R, 17, 21L, 21R, 26, 35, diverse departures authorized.
Rwy 8, diverse departures authorized between 258° CW 058°.

TAKEOFF OBSTACLE NOTES:

Rwy 3L, tower 5273' from DER, 1539' left of centerline, 335' MSL.
Tower 2689' from DER, 1232' left of centerline, 62' AGL/299' MSL.
Terrain 500' right of DER, 197' MSL.
Terrain 500' left of DER, 194' MSL.
Rwy 3R, terrain 500' right of DER, 208' MSL.
Rwy 17, antenna 303' from DER, 403' right of centerline, 190' MSL.
Terrain 500' left of DER, 184' MSL.
Rwy 21L, TACAN antenna 705' from DER, 286' left of centerline, 220' MSL.
Par antenna 661' from DER, 295' right of centerline, 214' MSL.
Rwy 26, pole 74' from DER, 244' right of centerline, 199' MSL.
Rwy 35, sign 710' from DER, 491' right of centerline, 54' AGL/244' MSL.
Pole 714' from DER, 544' right of centerline, 119' AGL/231' MSL.
Billboard 747' from DER, 562' right of centerline, 225' MSL.
Terrain 500' right of DER, 197' MSL.

SW-4, 05 NOV 2020 to 31 DEC 2020

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

BATTLE MOUNTAIN, NV
BATTLE
MOUNTAIN (BAM)……...…..**RNAV (GPS) Rwy 22[1]**
VOR Rwy 4[2]
[1]Category D, 1000-3.
[2]NA when local weather not available.

BEAVER, UT
BEAVER
MUNI (U52)…….....…..**RNAV (GPS)-A**
Categories A, B, 1300-2; Category C, 1300-3.

BLANDING, UT
BLANDING MUNI (BDG)…….**RNAV (GPS) Rwy 35**
NA when local weather not available.

BOULDER CITY, NV
BOULDER CITY
MUNI (BVU)……**RNAV (GPS) Rwy 27**
Category B, 1200-2; Category C, 1800-3.

BULLHEAD CITY, AZ
LAUGHLIN/BULLHEAD
INTL (IFP)..……**RNAV (GPS) Rwy 16[1]**
RNAV (GPS) Rwy 34[2]
VOR Rwy 34[3]
[1]Categories A, B, 1300-2; Category C, 1300-3; Category D, 1700-3.
[2]Categories A, B, 1100-2; Category C, 1100-3; Category D, 1700-3.
[3]Categories A, B, 2200-2; Categories C, D, 2200-3.

CARSON CITY, NV
CARSON (CXP)…….....…..**RNAV (GPS)-B**
Categories A, B, 1700-2; Category C, 1700-3; Category D, 3000-3.

CASA GRANDE, AZ
CASA GRANDE
MUNI (CGZ)…….....…..**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
Category D, 800-2½.

NAME — ALTERNATE MINIMUMS

COLORADO CITY, AZ
COLORADO CITY
MUNI (AZC)……**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
Categories C, D, 2100-3.

COOLIDGE, AZ
COOLIDGE
MUNI (P08)…….....……**VOR Rwy 5**
NA when local weather not available.

ELKO, NV
ELKO RGNL (EKO)……...**LDA/DME Rwy 24[1]**
RNAV (GPS) Rwy 6[2]
RNAV (GPS) Rwy 24[2]
VOR/DME-B[3]
[1]Category B, 1000-2; Category C 1500-3; Category D, 1900-3.
[2]Categories A, B, 1200-2; Category C 1500-3; Category D, 1900-3.
[3]Categories A, B, 1300-2; Categories C, D, 1300-3.

ELY, NV
ELY AIRPORT/
YELLAND FIELD (ELY)..……**RNAV (GPS) Rwy 18**
NA when local weather not available.
Category D 1000-3.

EUREKA, NV
EUREKA (05U)..……**RNAV (GPS) Rwy 18**
Categories A, B, 1900-2; Categories C, D, 1900-3.

FLAGSTAFF, AZ
FLAGSTAFF
PULLIAM (FLG)……**ILS or LOC Rwy 21[1]**
RNAV (GPS) Rwy 3[2]
RNAV (GPS) Rwy 21[2]
VOR Rwy 21[2]
[1]ILS, LOC, Category C, 1100-3; Category, D, 1600-3.
[2]Category C, 1100-3; Category, D, 1600-3.

NAME ALTERNATE MINIMUMS

FORT HUACHUCA SIERRA VISTA, AZ

SIERRA VISTA MUNI-
LIBBY AAF (FHU)……**ILS or LOC Rwy 26[1]**
RNAV (GPS) Rwy 8[1]
RNAV (GPS) Rwy 26[1]
TACAN Rwy 8[23]
TACAN Rwy 26 [23]
VOR Rwy 26 [1]

[1]NA when control tower closed.
[2]NA when local weather not available.
[3]NA when GCA closed.

GLENDALE, AZ

GLENDALE
MUNI (GEU)……**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19
NA when local weather not available.

GRAND CANYON, AZ

GRAND CANYON NATIONAL
PARK (GCN)……**ILS or LOC Rwy 3[12]**
RNAV (GPS) Rwy 3[3]
VOR Rwy 3[4]

[1]NA when control tower closed.
[2]ILS Category C, 700-2; Category D, 1100-3; LOC, Category D, 1100-3.
[3]Category C, 800-3; Category D, 1100-3.
[4]Category D, 1100-3.

HAWTHORNE, NV

HAWTHORNE
INDUSTRIAL (HTH)……**RNAV (GPS) Rwy 28**
Category C, 1500-3.

HEBER, UT

HEBER
VALLEY (HCR)……..….**RNAV (GPS)-A**
Categories, A, B, 2400-2; Category C, 2400-3.

KANAB, UT

KANAB MUNI (KNB)……..**RNAV (GPS) Rwy 1**
Category B, 1100-2; Category C, 1400-3.

KINGMAN, AZ

KINGMAN (IGM)……**RNAV (GPS) Rwy 3**
RNAV (GPS) Y Rwy 21
VOR/DME Rwy 21
Category D, 800-2¼.

LAS VEGAS, NV

HENDERSON
EXECUTIVE (HND)……**RNAV (GPS)-B[1]**
VOR-C[2]
NA when local weather not available.
[1]Categories A, B, 1500-2; Category C, 1500-3.
[2]Categories A, B, 2400-2; Category C, 2400-3.

NAME ALTERNATE MINIMUMS

LAS VEGAS, NV (CON'T)

MC CARRAN
INTL (LAS)……**ILS or LOC Rwy 1L[1]**
ILS or LOC Rwy 26L[2]
ILS or LOC Rwy 26R[2]
RNAV (GPS) Rwy 1R[3]
RNAV (GPS) Rwy 19L[3]
RNAV (GPS) Rwy 19R[3]
VOR Rwy 26L/R[3]
VOR/DME –A[4]

[1]ILS, LOC, Categories A, B, 900-2; Category C, 1000-2¾.
[2]ILS, LOC, Categories A, B, 900-2; Category C, 1000-2¾, Categories D, E, 1400-3.
[3]Categories A, B, 900-2; Category C, 1000-2¾, Categories D, 1400-3.
[4]Categories A, B, 900-2; Categories C, D, 1100-3.

NORTH LAS
VEGAS (VGT)……**ILS or LOC Rwy 12L**
NA when control tower closed.

LOGAN, UT

LOGAN-CACHE (LGU)…….**RNAV (GPS) Rwy 17**
Categories A, B, 1400-2; Categories C, D, 1400-3.

LOVELOCK, NV

DERBY
FIELD (LOL)...……...**RNAV (GPS) Rwy 2[1]**
RNAV (GPS) Rwy 20[1]
VOR-A[2]
[1]Category D, 800-2½.
[2]Categories A, B, 900-2; Category C, 900-2¾; Category D, 1000-3.

MARANA, AZ

MARANA RGNL (AVQ)…….....**RNAV (GPS)-E**
NA when local weather not available.
Category C, 800-2¼.

MESA, AZ

FALCON FIELD (FFZ)…….**RNAV (GPS) Rwy 4L[1]**
RNAV (GPS) Rwy 4R[1]
RNAV (GPS)-B[2]
[1]NA when local weather not available.
[2]NA when control tower closed.

MILFORD, UT

MILFORD MUNI/BEN AND JUDY
BRISCOE FIELD (MLF)..……**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
VOR/DME-A
NA when local weather not available.

MINDEN, NV

MINDEN-TAHOE (MEV)……...…**RNAV (GPS)-A[1]**
RNAV (GPS)-B[2]
[1]Categories A, B, 1900-2; Categories C, D, 1900-3.
[2]Categories A, B, 1800-2; Categories C, D, 1800-3.

NAME ALTERNATE MINIMUMS

OGDEN, UT

OGDEN-
HINCKLEY (OGD)……**ILS or LOC Rwy 3**[1]
RNAV (GPS) Rwy 3[23]
VOR-A[2]

[1]NA when control tower closed.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

PANGUITCH, UT

PANGUITCH
MUNI (U55)……**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36[1]

NA when local weather not available.
[1]Categories A, B, 1200-2.

PHOENIX, AZ

PHOENIX DEER
VALLEY (DVT)……**RNAV (GPS)-B**[1]
RNAV (GPS) Rwy 7R[2]
RNAV (GPS) Rwy 25L[2]

NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1000-2¾.
[2]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

PHOENIX-MESA
GATEWAY (IWA)……**ILS or LOC Rwy 30C**[14]
RNAV (GPS) Rwy 12C[2]
RNAV (GPS) Rwy 12R[3]
RNAV (GPS) Rwy 30R
RNAV (GPS) Y Rwy 30C[2]
RNAV (GPS) Rwy 30L[2]
VOR or TACAN Rwy 30C[2]

NA when local weather not available.
[1]NA when control tower closed.
[2]Category E, 800-2¼.
[3]Category E, 1100-3.
[4]ILS, Category E, 700-2¼; LOC Category E, 800-2¼.

PHOENIX SKY HARBOR
INTL (PHX)……**ILS or LOC/DME Rwy 7L**[1]
ILS or LOC Rwy 7R[1]
ILS or LOC Rwy 8[1]
ILS or LOC Rwy 25L[1]
ILS or LOC Rwy 26[1]
RNAV (GPS) Y Rwy 7L[2]
RNAV (GPS) Y Rwy 7R[2]
RNAV (GPS) Y Rwy 8[2]
RNAV (GPS) Y Rwy 25L[2]
RNAV (GPS) Y Rwy 25R[2]
RNAV (GPS) Y Rwy 26[2]

[1]LOC, Category C, 1000-2¾; Category D, 1500-3.
[2]Category C, 1000-2¾; Category D, 1500-3.

NAME ALTERNATE

PRESCOTT, AZ

PRESCOTT RGNL - ERNEST A LOVE
FLD (PRC)……**ILS or LOC/DME Rwy 21L**[12]
RNAV (GPS) Y Rwy 3R[3]
RNAV (GPS) Rwy 12[3]
RNAV (GPS) Rwy 21L[3]
VOR Rwy 12[4]

[1]NA when control tower closed.
[2]ILS, Category B, 700-2; Category C, 1100-3; Category D, 1700-3. LOC, Category C, 1100-3; Category D, 1700-3.
[3]Category C, 1100-3; Category D, 1700-3.
[4]Categories C, D, 1100-3.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS
FIELD (PUC)……**RNAV (GPS) Rwy 1**
Category B, 1000-2; Category C, 1200-3.

PROVO, UT

PROVO
MUNI (PVU)……**ILS or LOC Rwy 13**
NA when control tower closed.
ILS, Categories A, B, C, 800-2; Category D, 800-2½; LOC, Category D, 800-2½.

RENO, NV

RENO/TAHOE
INTL (RNO)……**ILS or LOC/DME Rwy 34L**[2]
ILS X or LOC X Rwy 16R[1]
ILS Y Rwy 16R[10]
ILS Z or LOC Z Rwy 16R[1]
LOC Y Rwy 16R[3]
RNAV (GPS) X Rwy 34L[4]
RNAV (GPS) X Rwy 34R[22]
RNAV (GPS) X Rwy 16L[5]
RNAV (GPS) X Rwy 16R[6]
RNAV (RNP) Y Rwy 16L[9]
RNAV (RNP) Y Rwy 16R[9]
RNAV (RNP) Z Rwy 16L[7]
RNAV (RNP) Z Rwy 16R[7]
TACAN-F[11]
VOR-D[8]

[1]Categories A, B, 1100-2; Categories C, D, 2100-3.
[2]ILS, LOC, Categories A, B, 1000-2; Category C, 1000-2¾.
[3]Categories A, B, 1600-2; Categories C, D, 2100-3; Category E, 2300-3.
[4]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.
[5]Categories A, B, 1000-2; Categories C, D, 2100-3.
[6]Categories A, B, 1800-2; Categories C, D, 1800-3.
[7]Categories A, B, C, 800-2½.
[8]Categories A, B, 1600-2; Categories C, D, 1600-3.
[9]Categories A, B, C, D, 800-2½.
[10]Categories A, B, C, D, E, 1500-6.
[11]Categories A, B, 1600-2; Categories C, D, 2000-3; Category E, 2100-3.
[22]Categories A, B, 1200-4; Categories C, D, 2100-4.

NAME ALTERNATE MINIMUMS

SAFFORD, AZ
SAFFORD RGNL (SAD).....**RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

ST GEORGE, UT
ST GEORGE
RGNL (SGU).....**RNAV (GPS) Rwy 1[1]**
RNAV (GPS) Rwy 19[2]
[1]Categories A, B, 900-2; Categories C, 900-2¾.
[2]Categories A, B, 1100-2, Categories C, D, 1100-3.

ST JOHNS, AZ
ST JOHNS INDUSTRIAL
AIR PARK (SJN).....**RNAV (GPS) Rwy 14**
NA when local weather not available.

SCOTTSDALE, AZ
SCOTTSDALE (SDL).....**RNAV (GPS)-D**
RNAV (GPS)-E
VOR/DME-A[1]
NA when local weather not available.
[1]Categories A, B, 900-2, Category C, 900-2½, Category D, 900-2¾.

SHOW LOW, AZ
SHOW LOW
RGNL (SOW).....**RNAV (GPS) Rwy 25**
NA when local weather not available.
Category C, 800-2¼, Category D, 1000-3.

TONOPAH, NV
TONOPAH (TPH).....**VOR or GPS-A**
Category D, 800-2¼.

TOOELE, UT
BOLINDER FIELD-TOOELE
VALLEY (TVY).....**ILS or LOC Rwy 17[1]**
RNAV (GPS) Rwy 17[2]
[1]ILS, Category C, 800-2; Category D, 1100-3; LOC, Category D, 1100-3.
[2]Category D, 1100-3.

TUCSON, AZ
RYAN
FIELD (RYN).....**RNAV (GPS) Rwy 6R**
Category D, 1000-3.

NAME ALTERNATE MINIMUMS

TUCSON, AZ (CON'T)
TUCSON
INTL (TUS).....**ILS or LOC Rwy 11L[1]**
LOC BC Rwy 29R[2]
RNAV (GPS) Rwy 29L[3]
RNAV (GPS) Z Rwy 11L[4]
RNAV (GPS) Z Rwy 29R[2]
VOR or TACAN Rwy 29R[2]
VOR or TACAN Rwy 11L[2]
[1]LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾; Category E, 1200-3.
[2]Category E, 1200-3.
[3]Category D, 800-2¼.
[4]Category D, 800-2¼; Category E, 1200-3.

VERNAL, UT
VERNAL
RGNL (VEL).....**RNAV (GPS) Y Rwy 35[1]**
RNAV (GPS) Z Rwy 35[2]
VOR Rwy 35[3]
[1]Categories A, B, 1100-2; Category C, 1100-3; Category D, 1200-3.
[2]Categories A, B, C, D, 900-3.
[3]Category C, 800-3; Category D, 1200-3.

WENDOVER, UT
WENDOVER (ENV).....**RNAV (GPS)-A[34]**
RNAV (GPS)-C[45]
VOR/DME-B[1]
VOR/DME or TACAN Rwy 26[2]
[1]Categories A, B, 1300-2; Category C, 1300-3; Category D, E 1500-3.
[2]Category D, 900-2¾; Category E, 1500-3.
[3]Categories A, B, 1900-2; Categories C, D, E, 1900-3.
[4]NA when local weather not available.
[5]Categories A, B, 1800-2; Categories C, D, E, 1800-3.

WINDOW ROCK, AZ
WINDOW ROCK (RQE).....**RNAV (GPS) Rwy 3[1]**
RNAV (GPS)-B[2]
VOR-A[2]
NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1100-3.
[2]Categories A, B, 1000-2; Category C, 1100-3; Category D, 1400-3.

WINNEMUCCA, NV
WINNEMUCCA
MUNI (WMC).....**RNAV (GPS) Rwy 14[12]**
RNAV (GPS) Rwy 32[1]
VOR Rwy 14[3]
[1]NA when local weather not available.
[2]Category C, 800-2¼; Category D, 800-2½.
[3]Category C, 1000-3.

FALLON NAS (KNFL), (VAN VOORHIS FLD), NV (Amdt 3, 19311 USN) ELEV **3935**

RADAR[1] - (E) 120.85x 121.875x 257.65x 277.4x 308.4x 346.4x 360.2x T

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR	7	3.0°/35/661	ABCDE	**4129**-¾	200	(200-¾)
	13L	3.0°/47/892	ABCDE	**4135**-¾	200	(200-¾)
	13R	3.0°/50/959	ABCDE	**4135**-¾	200	(200-¾)
	31L[2]	3.5°/57/928	ABCDE	**4127**-¾	200	(200-¾)
	31R	3.5°/57/929	ABCDE	**4128**-¾	200	(200-¾)
ASR	31L[3]		ABCDE	**4220**-1	293	(300-1)
	31R[4]		ABCDE	**4220**-1	292	(300-1)
	13L[6]		AB	**4320**-1	385	(400-1)
			CDE	**4320**-1⅛	385	(400-1⅛)
	13R[5]		AB	**4320**-1	385	(400-1)
			CDE	**4320**-1⅛	385	(400-1⅛)
	7		AB	**4340**-1	411	(500-1)
			CDE	**4340**-1⅛	411	(500-1⅛)
CIR	ALL RWY		AB	**4400**-1	465	(500-1)
			C	**4700**-2¼	765	(800-2¼)
			D	**4920**-3	985	(1000-3)
			E	**4960**-3	1025	(1100-3)

CAUTION: ATC Missed Approach Minimum Climb Rate to 7400

PAR/ASR	Rwy	Knots	60	120	180	240	300	360
	7	FPM	260	520	780	1040	1300	1560
	13L/R	FPM	260	520	780	1040	1300	1560
	31L/R	FPM	270	540	810	1080	1350	1620

[1]No-NOTAM MP sked: PAR-2200-0000Z++ Thu, ASR-1500-1700Z++ Wed, when ceil-vis 3000-5 and above.
[2]PAR and PAPI not coincident.
[3]Step Down Fix 3 NM 4980'.
[4]Step Down Fix 3 NM 4940'.
[5]Step Down Fix 2 NM 4600'.
[6]Step Down Fix 3 NM 4960'.

SW-4, 05 NOV 2020 to 31 DEC 2020

RADAR INSTRUMENT APPROACH MINIMUMS
RADAR MINS
19339
N1

FORT HUACHUCA SIERRA VISTA, AZ

Orig-B, 10OCT19 (18283) (FAA) ELEV **4719**

SIERRA VISTA MUNI-LIBBY AAF (FHU)

RADAR-1 127.05 254.35 T A NA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
PAR	26	3.00°/50/950	ABCDE	**4799**-¾	200	(100-¾)
	8	3.00°/41/782	ABCDE	**4919**-¾	200	(200-¾)
PAR W/O GS	26		AB	**5080**-1	481	(400-1)
			CDE	**5080**-1⅜	481	(400-1⅜)
	8		AB	**5100**-1	381	(400-1)
			CDE	**5100**-1⅛	381	(400-1⅛)
CIRCLING	ALL RWY		A	**5080**-1	381	(400-1)
			B	**5180**-1	461	(500-1)
			C	**5180**-1½	461	(500-1½)
			D	**5280**-2	561	(600-2)
			E	**5340**-2¼	621	(700-2¼)

Circling NA south of Rwy 8-30.
Procedure NA when control tower is closed.

SW-4, 05 NOV 2020 to 31 DEC 2020

FORT HUACHUCA SIERRA VISTA, AZ

Orig-B, 10OCT19 (19283) (FAA) ELEV **4719**

SIERRA VISTA MUNI-LIBBY AAF (FHU)

RADAR-2 127.05 254.35 T A NA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	26		AB	**5180**-1	581	(500-1)
			CDE	**5180**-1¾	581	(500-1¾)
	8		AB	**5380**-1	661	(700-1)
			CDE	**5380**-1⅞	661	(700-1⅞)
CIRCLING	26		AB	**5180**-1	461	(500-1)
			C	**5180**-1¾	461	(500-1¾)
			D	**5280**-2	561	(600-2)
			E	**5340**-2¼	621	(700-2¼)
	8		AB	**5380**-1	661	(700-1)
			C	**5380**-1⅞	661	(700-1⅞)
			D	**5380**-2	661	(700-2)
			E	**5380**-2¼	661	(700-2¼)

Circling NA south of Rwy 8-30.
ASR NA when tower is closed.

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA MCAS/YUMA INTL (KNYL), AZ (19171 USN) ELEV **213**

RADAR - (E) 120.9x 124.15x 125.55x 125.95x 254.0x 270.8x 278.7x 286.0x 301.2x 305.2x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR	21R[1]	3.0°/54/1073	ABCDE	**393**-½	200	(200-½)
	3L	3.0°/54/1021	ABCDE	**395**-¾	200	(200-¾)
PAR W/O GS	3L		ABCDE	**560**-1	365	(400-1)
	21R[2]		AB	**600**-½	407	(400-½)
			CDE	**600**-¾	407	(400-¾)
ASR	3L		ABCDE	**560**-1	365	(400-1)
	3R		AB	**600**-1	412	(400-1)
			CDE	**600**-1⅛	412	(400-1⅛)
	21L		AB	**640**-1	432	(500-1)
			CDE	**640**-1¼	432	(500-1¼)
	21R[3]		AB	**640**-½	447	(500-½)
			CDE	**640**-⅞	447	(500-⅞)
CIRCLING	ALL RWY		A	**680**-1	467	(500-1)
			B	**700**-1	487	(500-1)
			C	**800**-1½	587	(600-1½)
			DE	**800**-2	587	(600-2)

[1]When ALS inop, increase CAT ABCDE vis to ¾ mile.
[2]When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅛ miles.
[3]When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅜ miles.

SW-4, 05 NOV 2020 to 31 DEC 2020

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
19339

N3

20086

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
OGDEN, UT			
OGDEN-HINCKLEY (OGD)	21	17-35	4,600 feet
PRESCOTT, AZ			
PRESCOTT RGNL-ERNEST A LOVE FLD (PRC)	21L	12-30	5,904 feet

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

20086

20198

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*
CHANDLER, AZ		
CHANDLER MUNI (CHD)	HS 1	Rwy 22R may be used as an alternate taxi route.
GLENDALE, AZ		
GLENDALE MUNI (GEU)	HS 1	Aircraft exiting rwy will enter Twy A to the ramp.
GRAND CANYON, AZ		
GRAND CANYON NATIONAL PARK (GCN)	HS 1	Twy A and Twy B at the Rwy 21 end.
LAS VEGAS, NV		
HENDERSON EXECUTIVE (HND)	HS 1	Twy H, Twy G, and Rwy 17R.
	HS 2	Twy E and ramp area. High volume of traffic.
LAS VEGAS, NV		
McCARRAN INTL (LAS)	HS 1	Rwy 01R-19L and Rwy 01L-19R, Twy U.
	HS 2	Rwy 01R-19L and Rwy 01L-19R, Twy Y.
	HS 3	Wrong rwy departure risk. Aircraft departing Rwy 08L are sometime confused with Rwy 01L. Verify rwy heading and alignment with proper rwy prior to departure.
LAS VEGAS, NV		
NORTH LAS VEGAS (VGT)	HS 1	Rwy hold lines at Twy G and Twy F in close proximity to edge of large paved area.
	HS 2	Rwy 12R, Twy G.
	HS 3	Rwy 12R, Twy A and Twy B.
	HS 4	Rwy 12L, Twy A.
MINDEN, NV		
MINDEN-TAHOE (MEV)	HS 1	Complex int.
	HS 2	Frequent crossings for sailplane operations.
OGDEN, UT		
OGDEN-HINCKLEY (OGD)	HS 1	Rwy 03-21 Twy D int NW of the Rwy, wide expanse of unmarked pavement.
	HS 2	Confusing twy int in close proximity to rwy.
PHOENIX, AZ		
PHOENIX DEER VALLEY (DVT)	HS 1	Inadvertent Rwy 07R-25L crossings from Twy B5.
	HS 2	Inadvertent Rwy 07R-25L crossings from Twy B9.
PHOENIX, AZ		
PHOENIX SKY HARBOR INTL (PHX)	HS 1	Pilots sometimes mistake Twy F for Rwy 07L or Rwy 07R.
	HS 2	Pilots sometimes cross Rwy 07L-25R at Twy F8, Twy F9, or Twy F10, without authorization.
	HS 3	Aircraft taxiing from southern ramps have turned onto Rwy 25L when given instructions to cross Rwy 25L at Twy H3.
PRESCOTT, AZ		
PRESCOTT RGNL - ERNEST A LOVE FLD (PRC)	HS 1	Not visible from the twr.
	HS 2	Complex int.
	HS 3	Frequent rwy crossings.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

20198

SW-4, 05 NOV 2020 to 31 DEC 2020

20198

HOT SPOTS

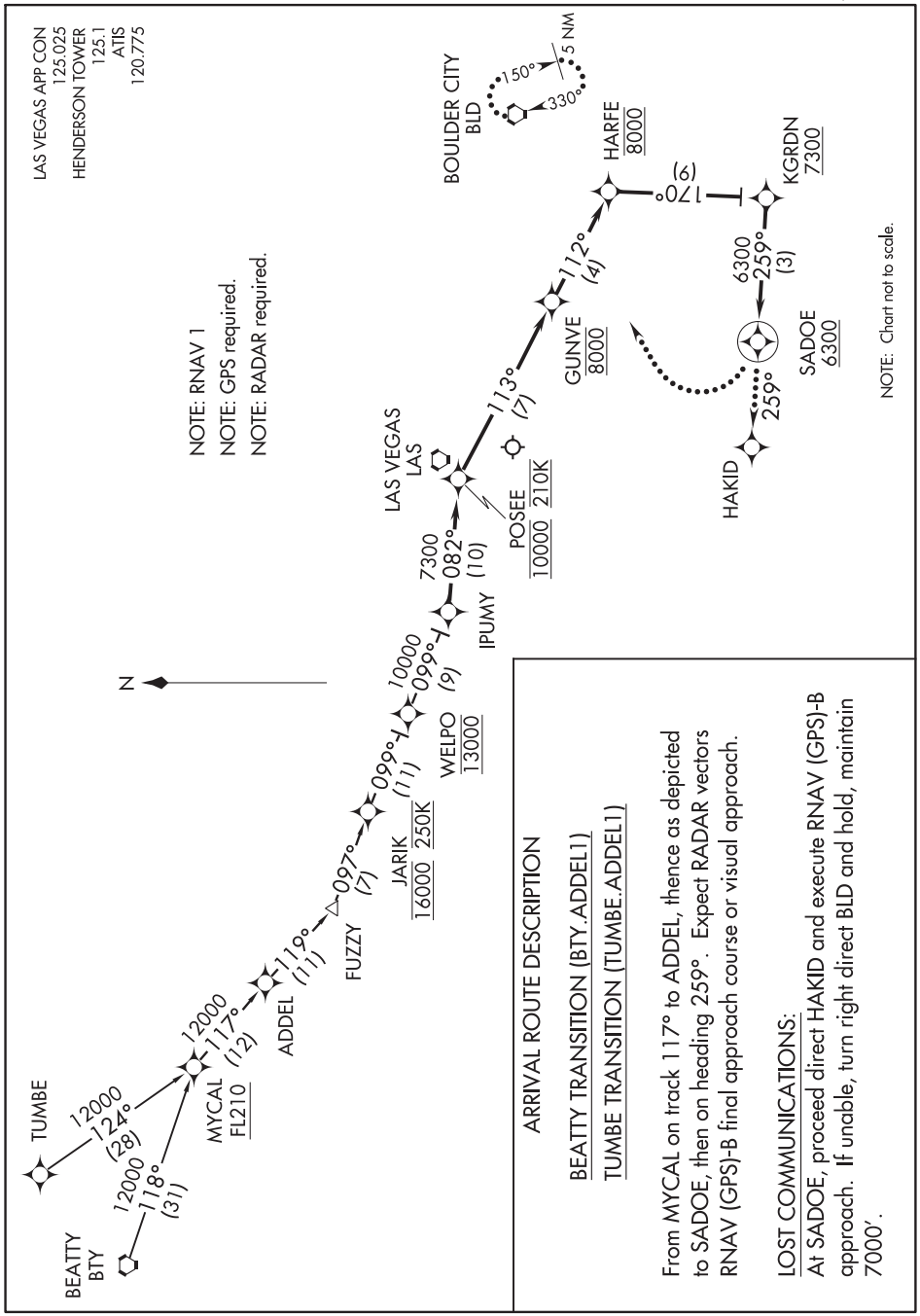
(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
PROVO, UT		
PROVO MUNI (PVU)	HS 1	Twy A and Twy A4 close proximity to ramp and rwys.
RENO, NV		
RENO/TAHOE INTL (RNO)	HS 1	Wrong rwy ldg risk - Rwy 34L mistaken for Rwy 34R.
	HS 2	Twy C, ramp twy, and Rwy 16L-34R.
SALT LAKE CITY, UT		
SALT LAKE CITY INTL (SLC)	HS 1	Wrong Rwy Departure Risk. Hold lines for Rwy 32 and Rwy 35 are at the same location at Twy K1 and Twy M with short taxi distance to either rwy.
	HS 2	High risk of Rwy incursion at Rwy 14-32 on Twy Q due to short taxi distance between rwys.
TUCSON, AZ		
RYAN FIELD (RYN)	HS 1	Rwy 33 and Rwy 06R, Twy B.
TUCSON, AZ		
TUCSON INTL (TUS)	HS 1	Rwy 29R and Rwy 29L.
	HS 2	Rwy 11L and Rwy 11R apch areas.

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

20198

SW-4, 05 NOV 2020 to 31 DEC 2020

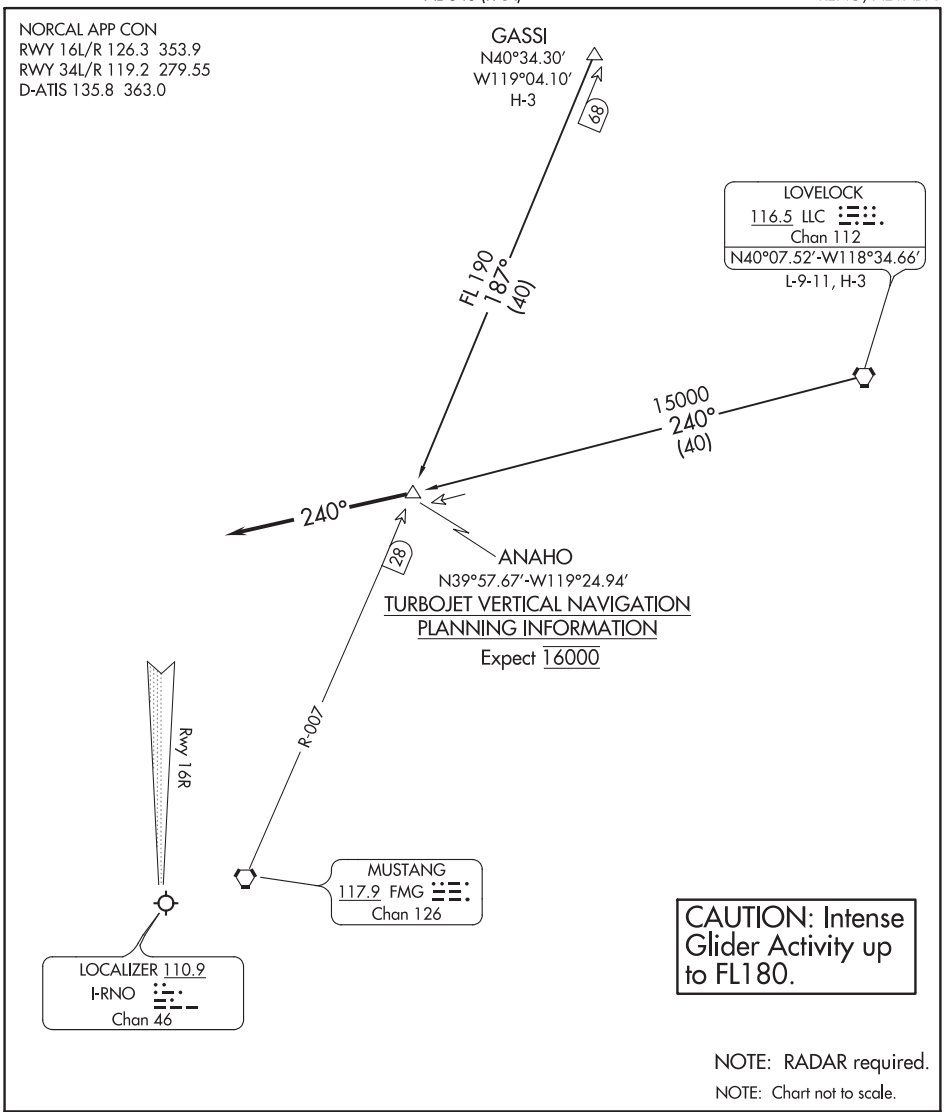

LAS VEGAS APP CON
125.025
HENDERSON TOWER
125.1
ATIS
120.775
NOTE: RNAV 1
NOTE: GPS required.
NOTE: RADAR required.
BOULDER CITY
BLD
150°
330°
5 NM
HARFE
8000
170°
(9)
KGRDN
7300
112°
(4)
6300
259°
(3)
GUNVE
8000
SADOE
6300
259°
HAKID
113°
(7)
LAS VEGAS
LAS
POSEE
10000 210K
7300
082°
(10)
IPUMY
10000
099°
(9)
WELPO
13000
N
099°
(11)
JARIK
16000 250K
097°
(7)
FUZZY
119°
(11)
ADDEL
12000
117°
(12)
MYCAL
FL210
12000
124°
(28)
TUMBE
12000
118°
(31)
BEATTY
BTY
NOTE: Chart not to scale.
ARRIVAL ROUTE DESCRIPTION
BEATTY TRANSITION (BTY.ADDEL1)
TUMBE TRANSITION (TUMBE.ADDEL1)
From MYCAL on track 117° to ADDEL, thence as depicted to SADOE, then on heading 259°. Expect RADAR vectors RNAV (GPS)-B final approach course or visual approach.
LOST COMMUNICATIONS:
At SADOE, proceed direct HAKID and execute RNAV (GPS)-B approach. If unable, turn right direct BLD and hold, maintain 7000'.

(ANAHO.ANAHO2) 17173

ANAHO TWO ARRIVAL

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA



ARRIVAL ROUTE DESCRIPTION

GASSI TRANSITION (GASSI.ANAHO2): From over GASSI via FMG R-007 to ANAHO INT/DME. Thence....

LOVELOCK TRANSITION (LLC.ANAHO2): From over LLC VORTAC via LLC R-240 to ANAHO INT/DME. Thence....

....Depart ANAHO INT/DME heading 240° for vectors to final approach course.

SW-4, 05 NOV 2020 to 31 DEC 2020

ARLIN FOUR ARRIVAL

AL-322 (FAA)

PHOENIX, ARIZONA

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

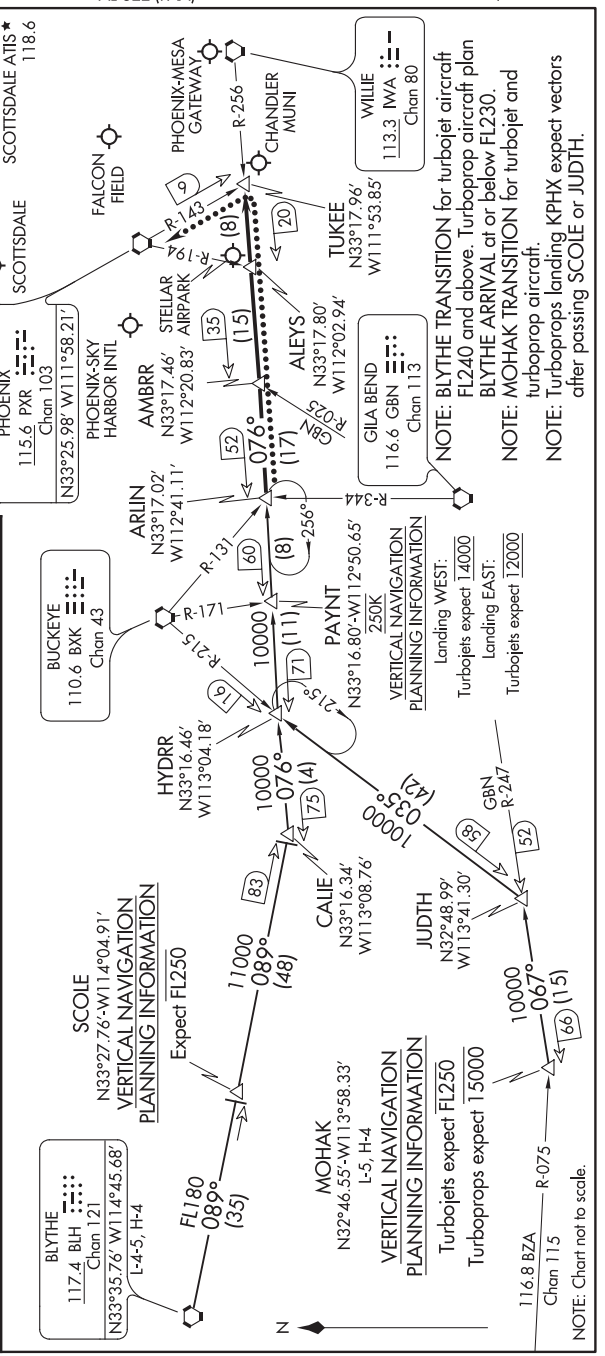
BLYTHE TRANSITION (BLH.ARLIN4): From over BLH VORTAC on BLH R-089 and IWA R-256 to ARLIN INT. Thence. . . .

MOHAK TRANSITION (MOHAK.ARLIN4): From over MOHAK INT on GBN R-247 and BXK R-215 to HYDRR INT, then on IWA R-256 to ARLIN INT. Thence. . . .

PHOENIX SKY HARBOR INTL: Rwys 7L/R or 8: From over ARLIN, Expect vectors to final approach course; Rwys 25L/R or 26: From over ARLIN, on IWA R-256 to TUKEE. Expect vectors to final approach course prior to TUKEE.

SATELLITE AIRPORTS: Expect vectors after passing SCOLE or JUDTH.

LOST COMMUNICATIONS: After ARLIN, on IWA R-256 and PXR VORTAC.

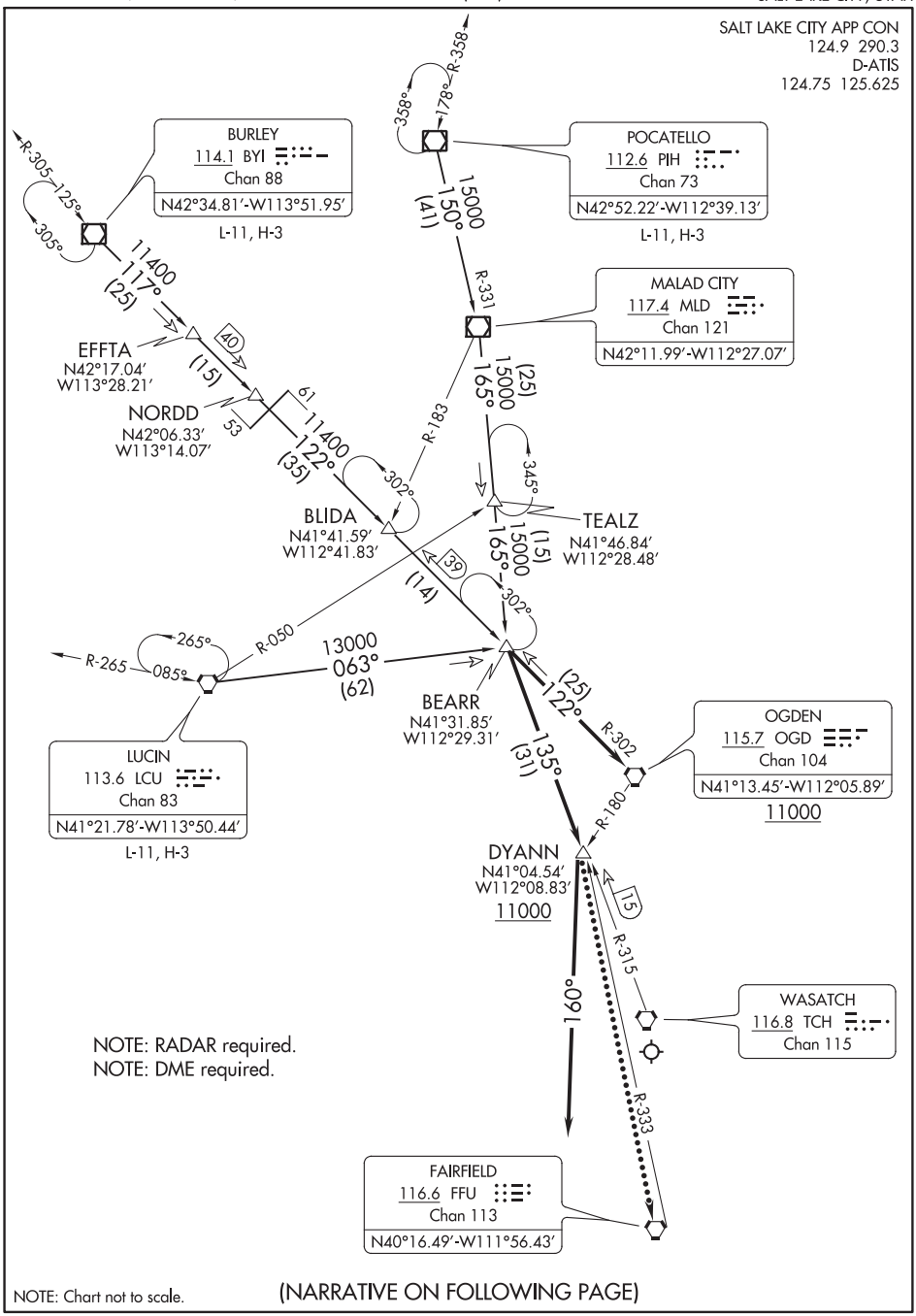


(BEARR.BEARR5) 17285

BEARR FIVE ARRIVAL

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)
SALT LAKE CITY, UTAH



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020

BEARR FIVE ARRIVAL

(BEARR.BEARR5) 12OCT17

SALT LAKE CITY, UTAH
SALT LAKE CITY INTL (SLC)

ARRIVAL ROUTE DESCRIPTION

BURLEY TRANSITION (BYI.BEARR5): From over BYI VOR/DME on BYI R-117 and OGD R-302 to BEARR. Thence . . . .
LUCIN TRANSITION (LCU.BEARR5): From over LCU VORTAC on LCU R-063 to BEARR. Thence . . . .
POCATELLO TRANSITION (PIH.BEARR5): From over PIH VOR/DME on PIH R-150 and MLD R-331 to MLD VOR/DME, then on MLD R-165 to BEARR. Thence . . . .

LANDING NORTH:
. . . .on TCH VORTAC R-315 to cross DYANN at or above 11000. After DYANN fly heading 160° for vectors to ILS or LOC RWY 34L or VISUAL RWY 34L approach.

LANDING SOUTH:
. . . .on OGD VORTAC R-302 to cross OGD at or above 11000. Expect ILS or LOC RWY 16L approach.

LOST COMMUNICATIONS
LANDING NORTH: In the event of lost communications, at DYANN proceed direct FFU VORTAC. Maintain 13000 until FFU VORTAC.

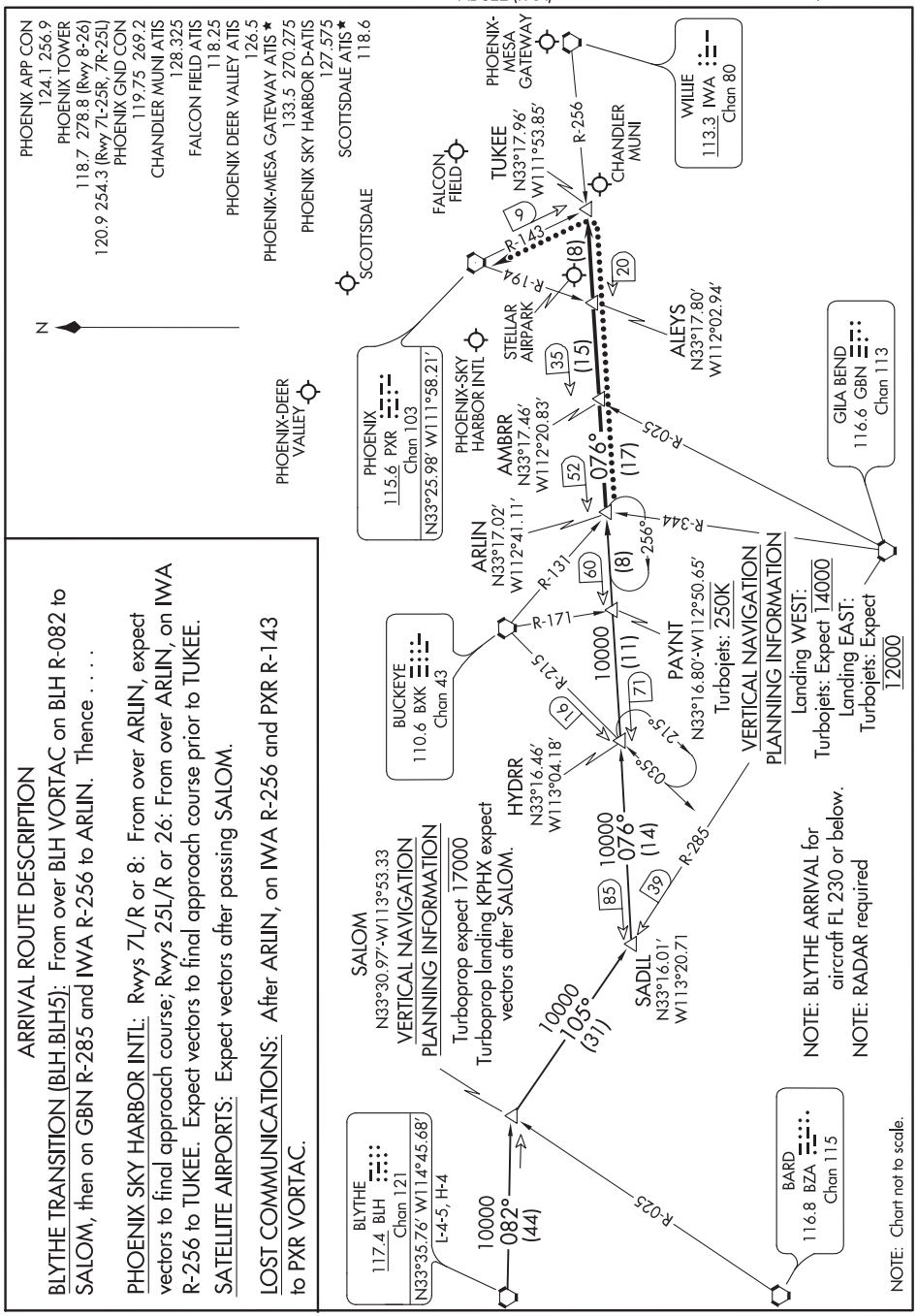
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(BLH.BLH5) 19003

BLYTHE FIVE ARRIVAL

AL-322 (FAA)

PHOENIX, ARIZONA



ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.BLH5): From over BLH VORTAC on BLH R-082 to SALOM, then on GBN R-285 and IWA R-256 to ARLIN. Thence . . . .

PHOENIX SKY HARBOR INTL: Rwys 7L/R or 8: From over ARLIN, expect vectors to final approach course; Rwys 25L/R or 26: From over ARLIN, on IWA R-256 to TUKEE. Expect vectors to final approach course prior to TUKEE.

SATELLITE AIRPORTS: Expect vectors after passing SALOM.

LOST COMMUNICATIONS: After ARLIN, on IWA R-256 and PXR R-143 to PXR VORTAC.

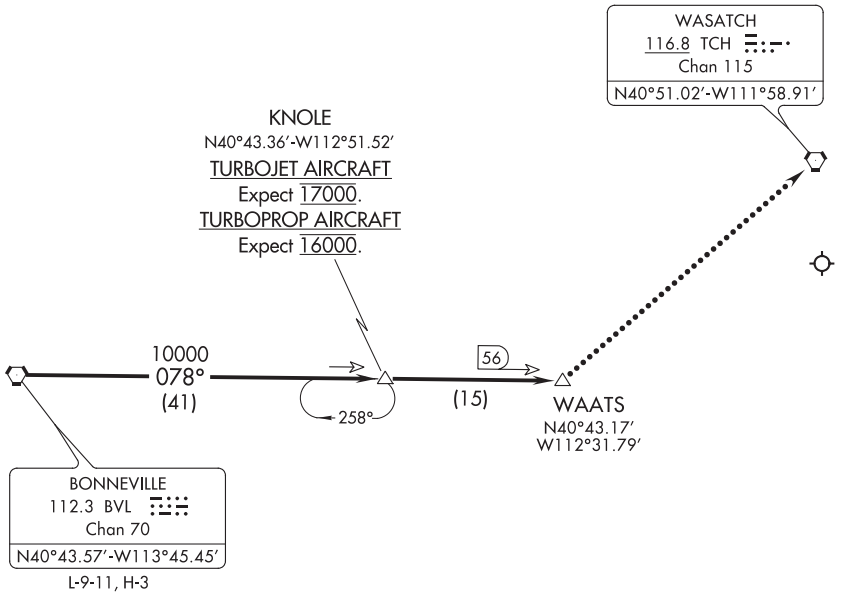
SW-4, 05 NOV 2020 to 31 DEC 2020

BLYTHE FIVE ARRIVAL

PHOENIX, ARIZONA

(BLH.BLH5) 27APR17

SALT LAKE CITY APP CON
128.6 322.3
D-ATIS 124.75 125.625



NOTE: DME required.
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From BVL VORTAC via BVL R-078 to WAATS, thence expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communications at WAATS, proceed direct TCH VORTAC. Maintain 13000′ until TCH VORTAC.

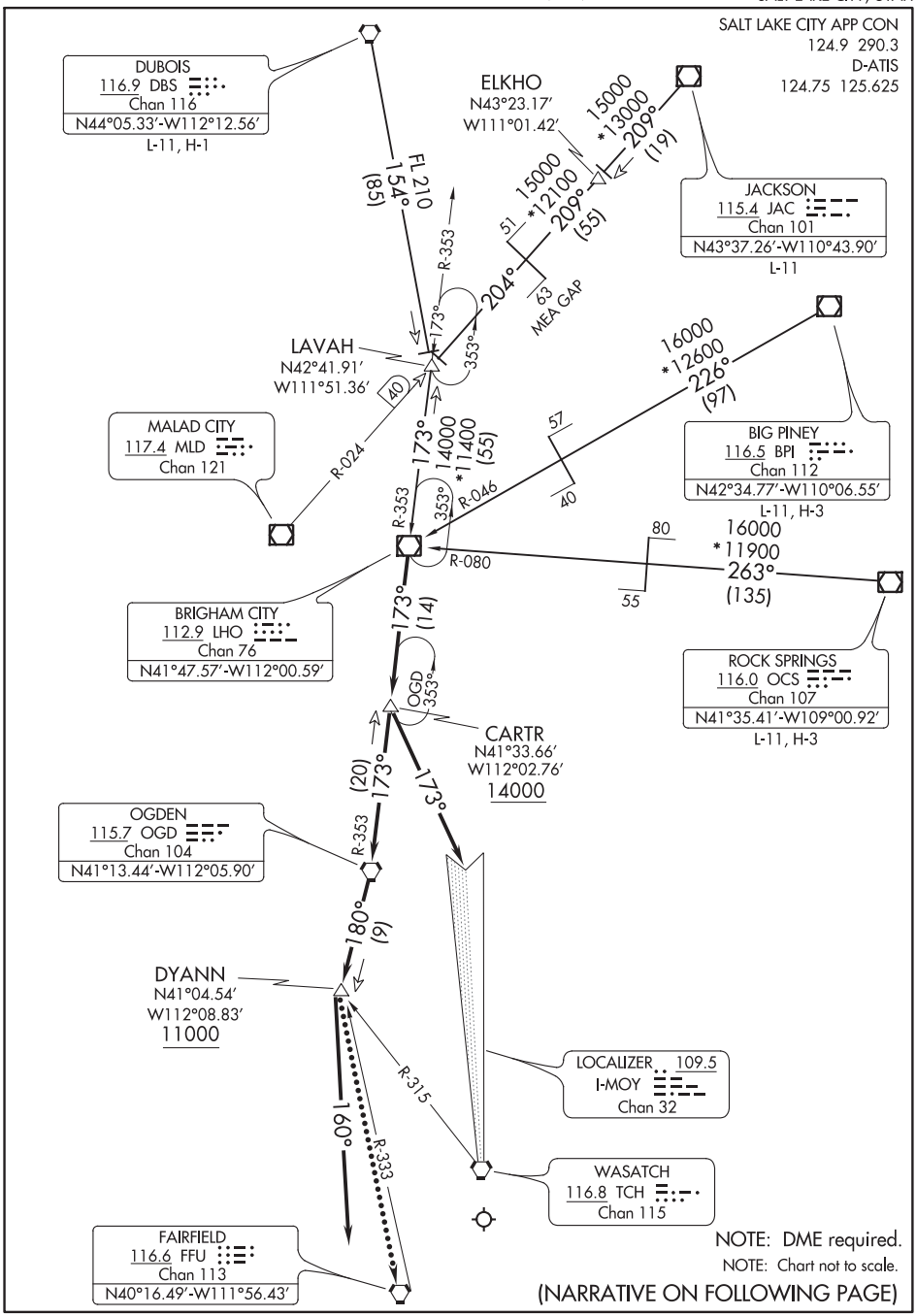
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(LHO.LHO4) 17285

BRIGHAM CITY FOUR ARRIVAL

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)
SALT LAKE CITY, UTAH



SW-4, 05 NOV 2020 to 31 DEC 2020

BRIGHAM CITY FOUR ARRIVAL

(LHO.LHO4) 12OCT17

SALT LAKE CITY, UTAH
SALT LAKE CITY INTL (SLC)

ARRIVAL ROUTE DESCRIPTION

BIG PINEY TRANSITION (BPI.LHO4): From over BPI VOR/DME on BPI R-226 and LHO R-046 to LHO VOR/DME. Thence. . . .
DUBOIS TRANSITION (DBS.LHO4): From over DBS VORTAC on DBS R-154 to LAVAH, then on LHO R-353 to LHO VOR/DME. Thence. . . .
JACKSON TRANSITION (JAC.LHO4): From over JAC VOR/DME on JAC R-209 and MLD R-024 to LAVAH, then on LHO R-353 to LHO VOR/DME. Thence. . . .
ROCK SPRINGS TRANSITION (OCS.LHO4): From over OCS VOR/DME on OCS R-263 and LHO R-080 to LHO VOR/DME. Thence. . . .

LANDING NORTH:
. . . .from over LHO VOR/DME on LHO R-173 to cross CARTR at or above 14000 then on OGD R-353 to OGD VORTAC, then on OGD R-180 to cross DYANN at or above 11000. After DYANN fly heading 160° for vectors ILS or LOC Rwy 34L or VISUAL RWY 34L approach.
LANDING SOUTH:
. . . .from over LHO VOR/DME on LHO R-173 to cross CARTR at or above 14000. After CARTR, fly heading 173° to intercept I-MOY Localizer, proceed inbound. Expect ILS or LOC RWY 16L approach.

LOST COMMUNICATIONS:
LANDING NORTH: In the event of lost communications, at DYANN proceed direct FFU VORTAC. Maintain 13000′ until FFU VORTAC.

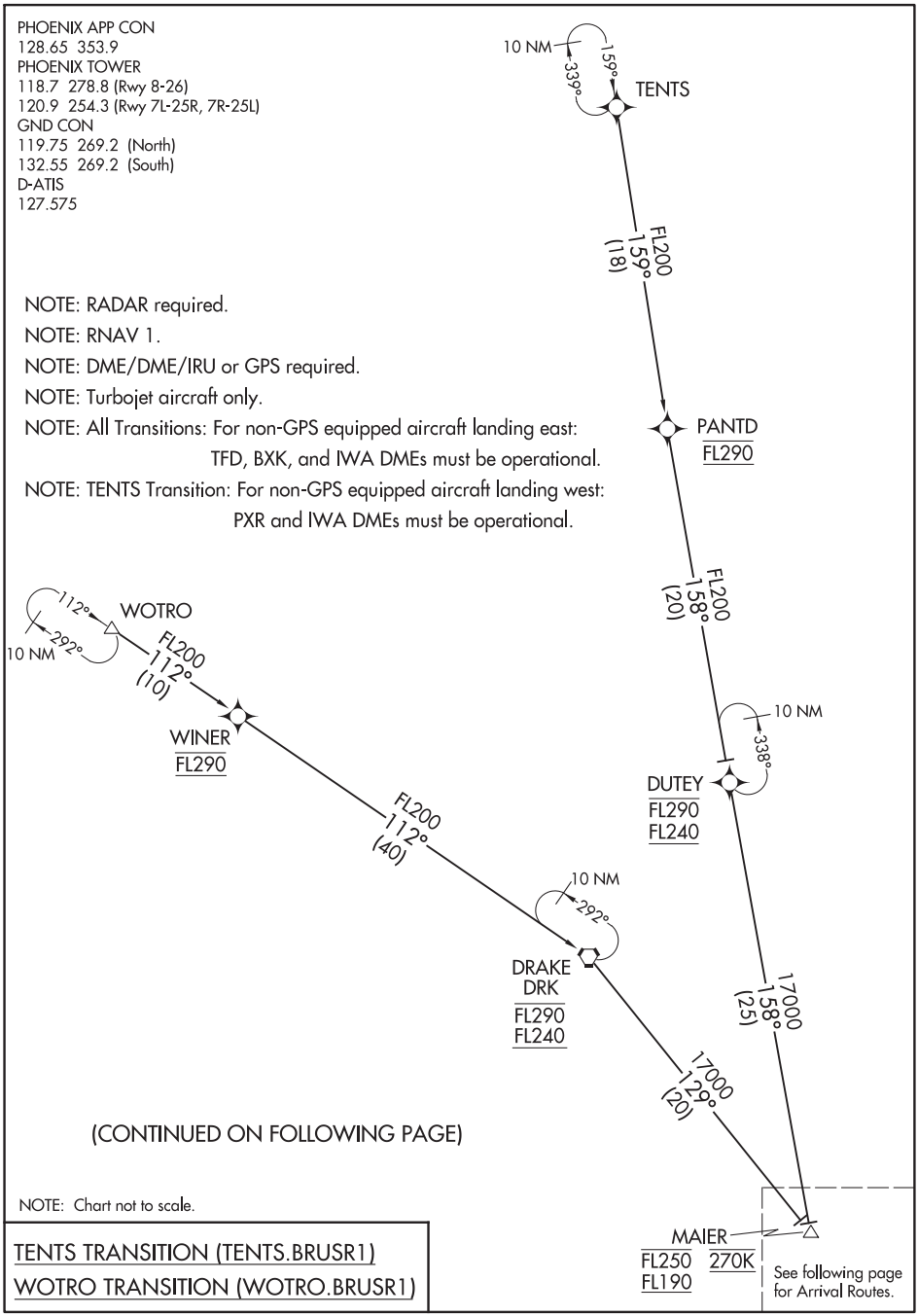
SW-4, 05 NOV 2020 to 31 DEC 2020

(MAIER.BRUSR1) 20142

AL-322 (FAA)

BRUSR ONE ARRIVAL (RNAV) Transition Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

TENTS TRANSITION (TENTS.BRUSR1)
WOTRO TRANSITION (WOTRO.BRUSR1)

SW-4, 05 NOV 2020 to 31 DEC 2020

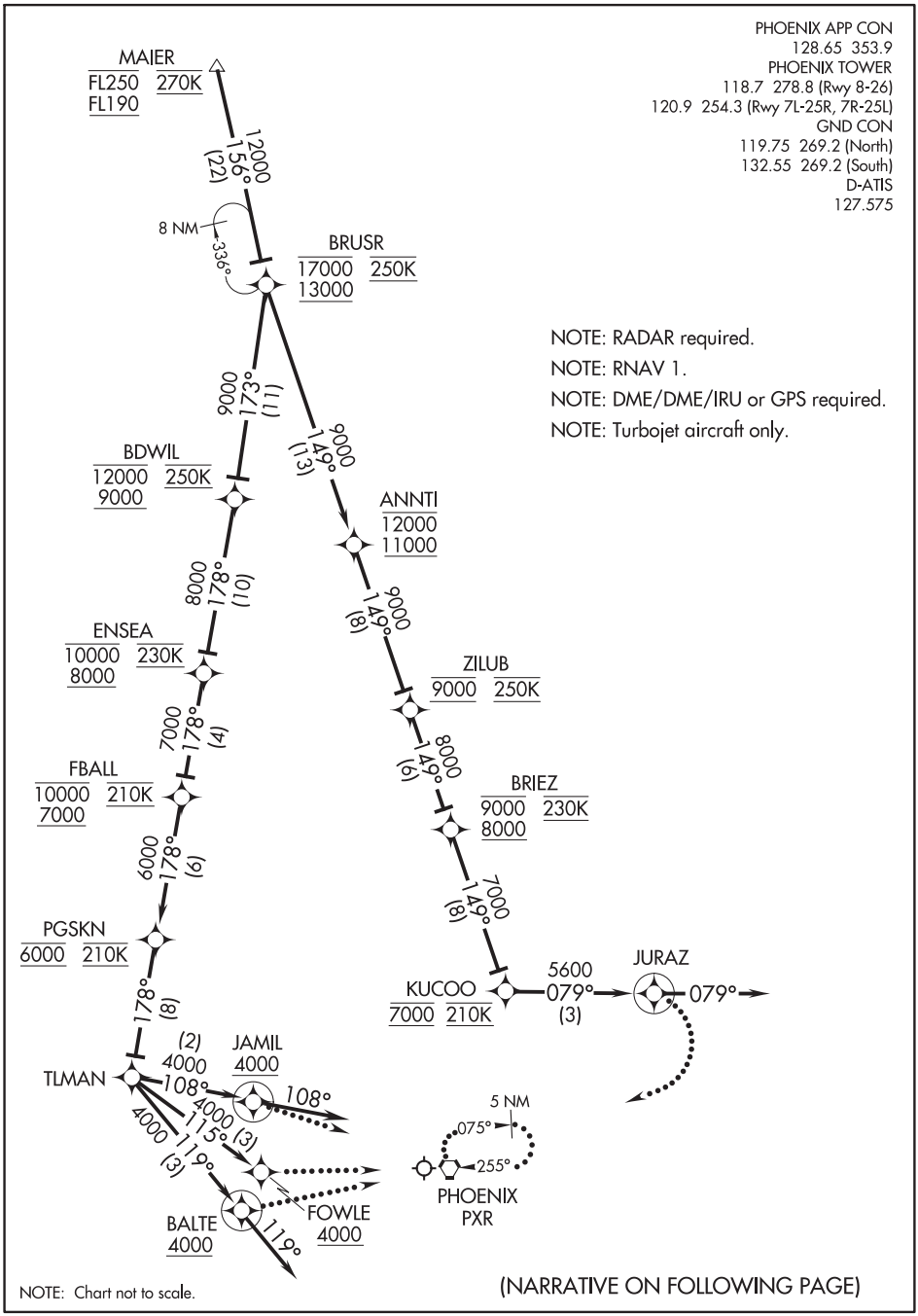
BRUSR ONE ARRIVAL (RNAV) Transition Routes

(MAIER.BRUSR1) 18SEP14

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

BRUSR ONE ARRIVAL (RNAV) Arrival Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



(NARRATIVE ON FOLLOWING PAGE)

BRUSR ONE ARRIVAL (RNAV) Arrival Routes

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

From MAIER on track 156° to cross BRUSR at/above 13000 and at/below 17000 and at 250K.

LANDING RUNWAY 7L: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 115° to cross FOWLE at/above 4000. Expect ILS RWY 7L or RADAR vectors to final approach course.

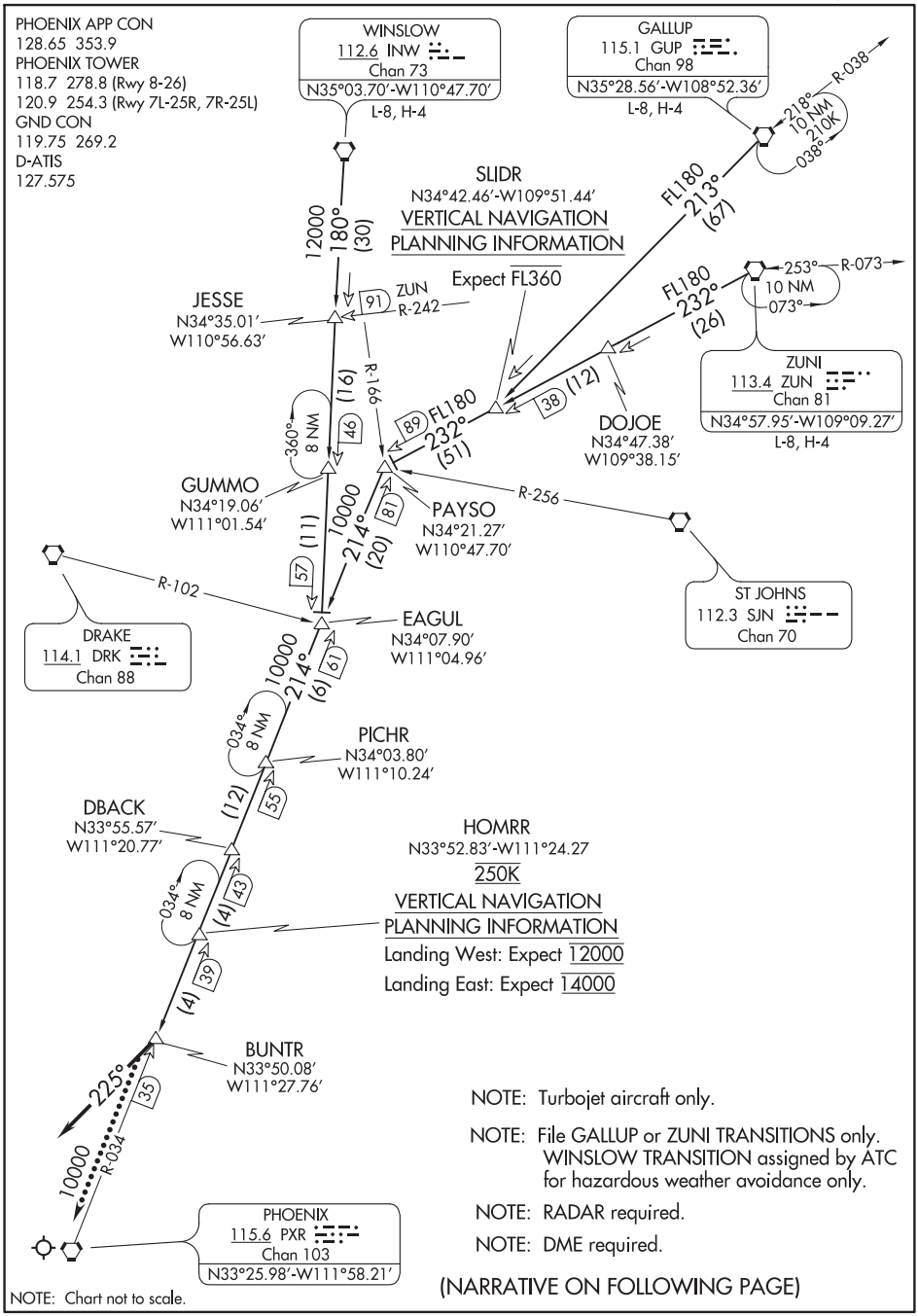
LANDING RUNWAY 7R: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 119° to cross BALTE at or above 4000. Then on track 119°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 8: From BRUSR on track 173° to cross BDWIL at/above 9000 and at/below 12000 and at 250K, then on track 178° to cross ENSEA at/above 8000 and at/below 10000 and at 230K, then on track 178° to cross FBALL at/above 7000 and at/below 10000 at 210K, then on track 178° to cross PGSKN at 6000 and at 210K, then on track 178° to TLMAN, then on track 108° to cross JAMIL at or above 4000. Then on track 108°. Expect RADAR vectors to final approach course.

LANDING RUNWAYS 25L, 25R, 26: From BRUSR on track 149° to cross ANNTI at/above 11000 and at/below 12000, then on track 149° to cross ZILUB at 9000 and at 250K, then on track 149° to cross BRIEZ at/above 8000 and at/below 9000 and at 230K, then on track 149° to cross KUCOO at 7000 and at 210K, then on track 079° to JURAZ, then on track 079°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At FOWLE, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 7R: At BALTE, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 8: At JAMIL, intercept and execute RWY 8 ILS approach, If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAYS 25L, 25R, 26: At JURAZ, turn right, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.


PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2
D-ATIS
127.575
WINSLOW
112.6 INW
Chan 73
N35°03.70′-W110°47.70′
L-8, H-4
GALLUP
115.1 GUP
Chan 98
N35°28.56′-W108°52.36′
L-8, H-4
R-038
218°
10 NM
210K
038°
SLIDR
N34°42.46′-W109°51.44′
VERTICAL NAVIGATION
PLANNING INFORMATION
Expect FL360
FL180
213°
(67)
12000
180°
(30)
JESSE
N34°35.01′
W110°56.63′
91
ZUN
R-242
R-166
(16)
360°
8 NM
46
FL180
232°
(51)
89
38
(12)
253°
R-073
10 NM
073°
FL180
232°
(26)
ZUNI
113.4 ZUN
Chan 81
N34°57.95′-W109°09.27′
L-8, H-4
DOJOE
N34°47.38′
W109°38.15′
GUMMO
N34°19.06′
W111°01.54′
10000
214°
(20)
81
PAYSO
N34°21.27′
W110°47.70′
R-256
(11)
57
R-102
ST JOHNS
112.3 SJN
Chan 70
DRAKE
114.1 DRK
Chan 88
EAGUL
N34°07.90′
W111°04.96′
10000
214°
(6)
61
034°
8 NM
PICHR
N34°03.80′
W111°10.24′
(12)
55
DBACK
N33°55.57′
W111°20.77′
HOMRR
N33°52.83′-W111°24.27
250K
VERTICAL NAVIGATION
PLANNING INFORMATION
Landing West: Expect 12000
Landing East: Expect 14000
034°
8 NM
(4)
43
(4)
39
BUNTR
N33°50.08′
W111°27.76′
225°
35
10000
R-034
PHOENIX
115.6 PXR
Chan 103
N33°25.98′-W111°58.21′
NOTE: Turbojet aircraft only.
NOTE: File GALLUP or ZUNI TRANSITIONS only.
WINSLOW TRANSITION assigned by ATC
for hazardous weather avoidance only.
NOTE: RADAR required.
NOTE: DME required.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.BUNTR3): From over GUP VORTAC on GUP R-213 to SLIDR then on ZUN R-232 to PAYSO, then on PXR R-034 to BUNTR. Thence. . . .

WINSLOW TRANSITION (INW.BUNTR3): From over INW VORTAC on INW R-180 to EAGUL, then on PXR R-034 to BUNTR. Thence. . . .

ZUNI TRANSITION (ZUN.BUNTR3): From over ZUN VORTAC via ZUN R-232 to PAYSO, then via PXR R-034 to BUNTR. Thence. . . .

. . . . From BUNTR, fly heading 225°. Expect vectors to final approach course.

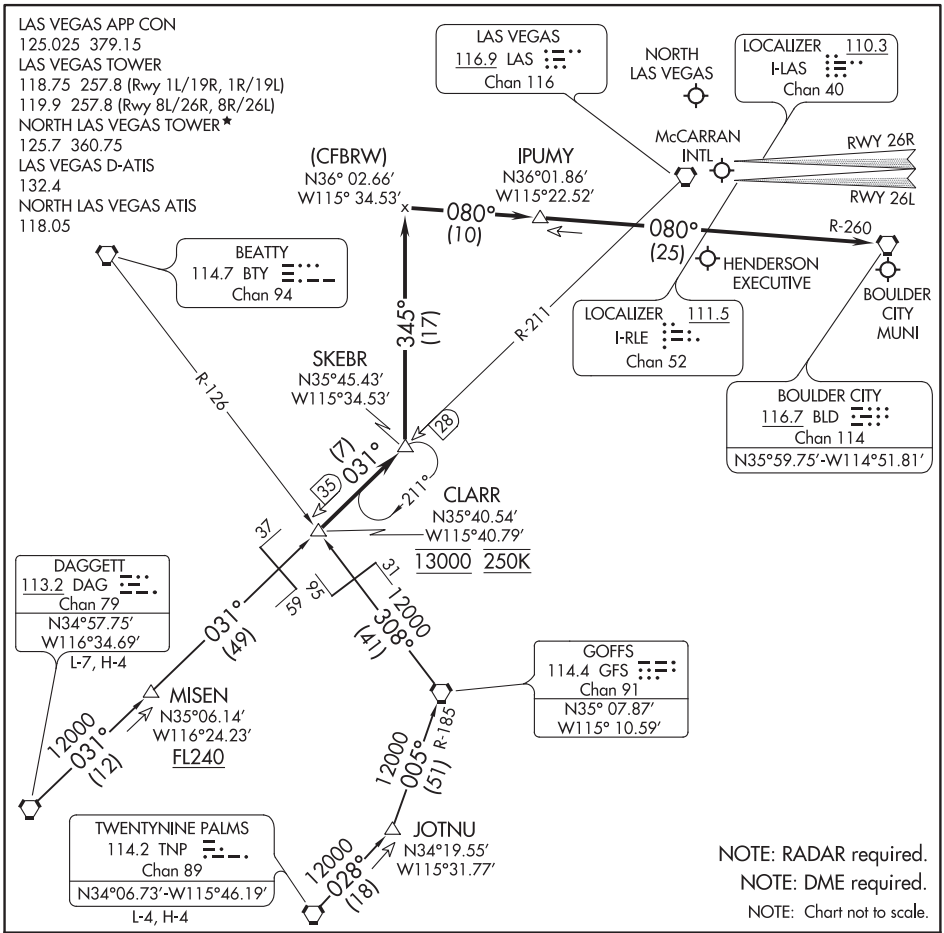
LOST COMMUNICATIONS: After BUNTR proceed direct PXR VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020

CLARR THREE ARRIVAL

AL-662 (FAA)

LAS VEGAS, NEVADA



ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.CLARR3): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR. Thence. . . .

TWENTYNINE PALMS TRANSITION (TNP.CLARR3): From over TNP VORTAC via TNP R-028 to JOTNU, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR. Thence. . . .

. . . .From over CLARR on LAS R-211 to SKEBR. Thence. . . .

LANDING MC CARRAN INTL: on heading 345° to intercept the BLD R-260 to BLD VORTAC. Rwys 1L/R, 8L/R, and 19L/R expect RADAR vectors for visual approach prior to BLD VORTAC. Rwys 26L/R expect ILS approach procedure.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: After SKEBR expect RADAR vectors to airport.

CLARR THREE ARRIVAL

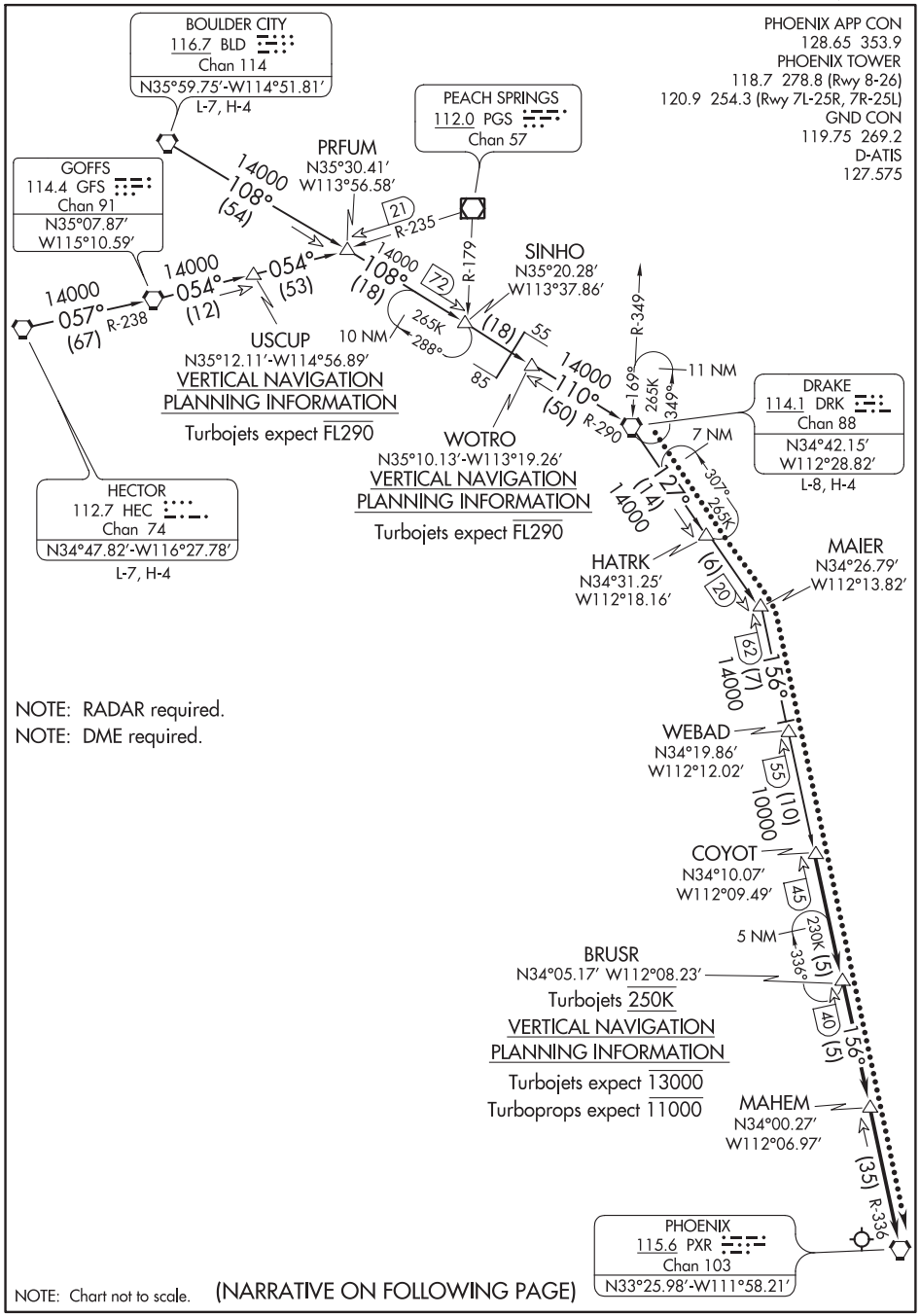
LAS VEGAS, NEVADA

(COYOT.COYOT5) 20198

COYOT FIVE ARRIVAL

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



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

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

BOULDER CITY TRANSITION (BLD.COYOT5): From over BLD VORTAC on BLD R-108 and DRK R-290 to DRK VORTAC, then on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

DRAKE TRANSITION (DRK.COYOT5): From over DRK VORTAC on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

HECTOR TRANSITION (HEC.COYOT5): From over HEC VORTAC on HEC R-057 and GFS R-238 to GFS VORTAC, then on GFS R-054 and PGS R-235 to PRFUM, then on BLD R-108 and DRK R-290 to DRK VORTAC, then on DRK R-127 and PXR R-336 to COYOT. Thence. . . .

. . . .From COYOT on PXR R-336 to BRUSR, then on PXR R-336 to MAHEM, then on PXR R-336 to PXR VORTAC. After BRUSR expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

After DRK VORTAC proceed direct MAIER, then direct PXR VORTAC.

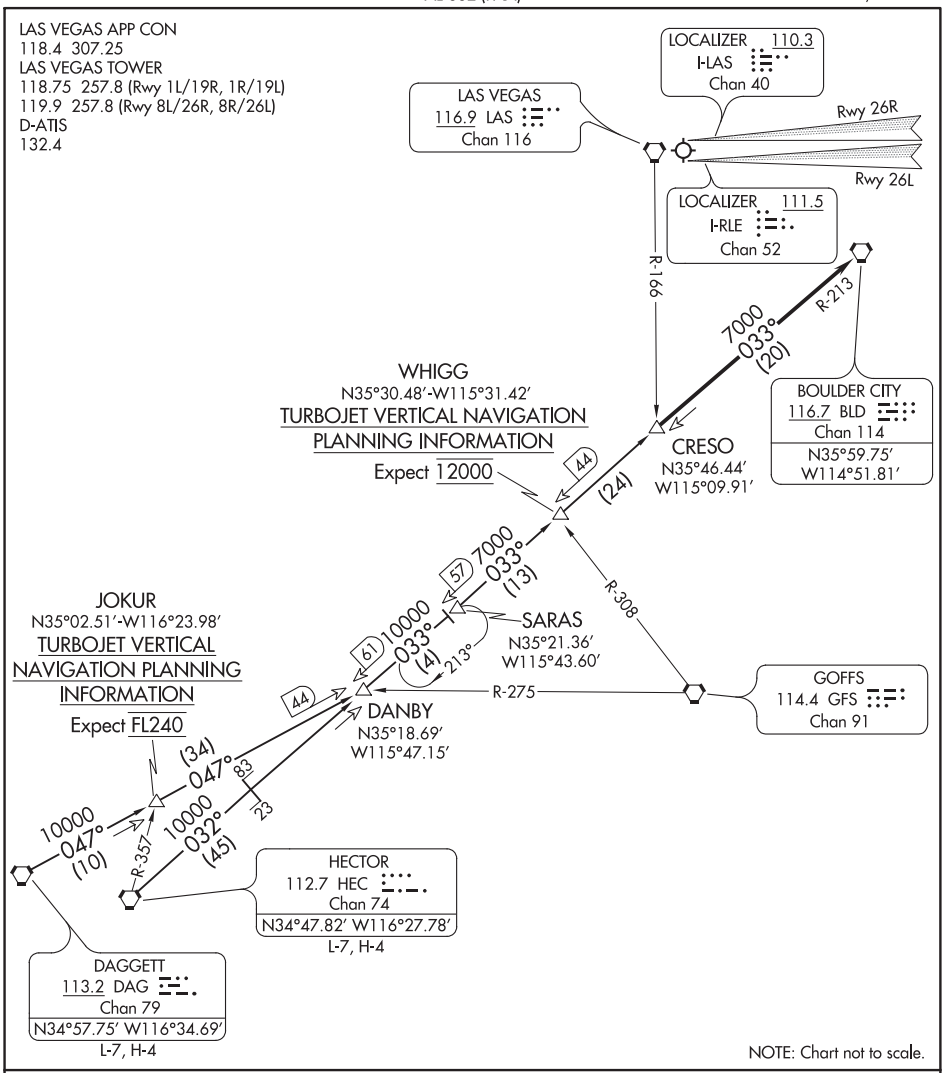
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(CRESO.CRESO4) 18088

CRESO FOUR ARRIVAL

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

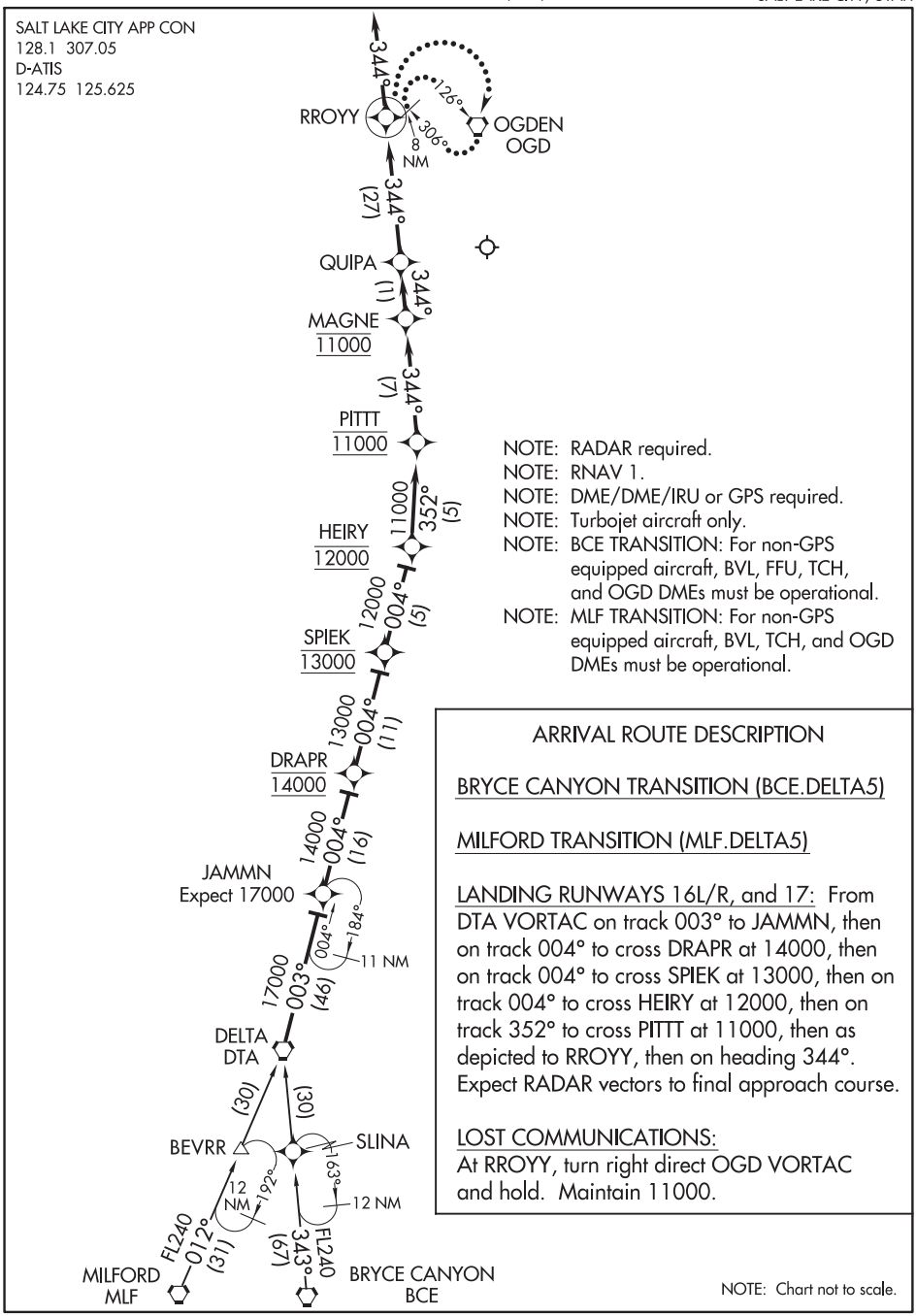
SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.CRESO4): From over DAG VORTAC via DAG R-047 and BLD R-213 to CRESO, thence. . . .

HECTOR TRANSITION (HEC.CRESO4): From over HEC VORTAC via HEC R-032 and BLD R-213 to CRESO, thence. . . .

. . . .From over CRESO then on BLD R-213 to BLD VORTAC. Runways 1, 8, and 19 expect RADAR vectors to final approach course. From BLD VORTAC, expect ILS approach Runway 26L/R.

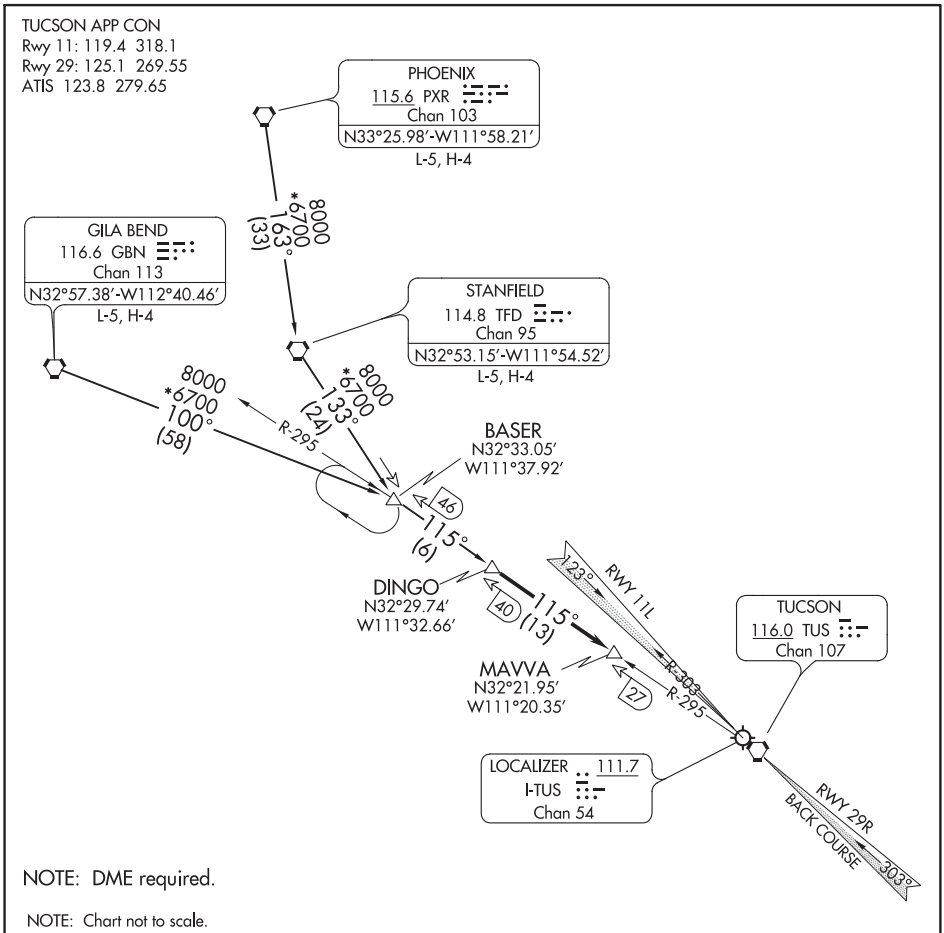

SALT LAKE CITY APP CON
128.1 307.05
D-ATIS
124.75 125.625
344°
126°
306°
8 NM
RROYY
OGDEN
OGD
344°
(27)
QUIPA
344°
(1)
MAGNE
11000
344°
(7)
PITTT
11000
11000
352°
(5)
HEIRY
12000
12000
004°
(5)
SPIEK
13000
13000
004°
(11)
DRAPR
14000
14000
004°
(16)
JAMMN
Expect 17000
184°
004°
11 NM
17000
003°
(46)
DELTA
DTA
(30)
(30)
BEVRR
SLINA
163°
192°
12 NM
12 NM
FL240
012°
(31)
FL240
343°
(67)
MILFORD
MLF
BRYCE CANYON
BCE
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: BCE TRANSITION: For non-GPS equipped aircraft, BVL, FFU, TCH, and OGD DMEs must be operational.
NOTE: MLF TRANSITION: For non-GPS equipped aircraft, BVL, TCH, and OGD DMEs must be operational.
ARRIVAL ROUTE DESCRIPTION
BRYCE CANYON TRANSITION (BCE.DELTA5)
MILFORD TRANSITION (MLF.DELTA5)
LANDING RUNWAYS 16L/R, and 17: From DTA VORTAC on track 003° to JAMMN, then on track 004° to cross DRAPR at 14000, then on track 004° to cross SPIEK at 13000, then on track 004° to cross HEIRY at 12000, then on track 352° to cross PITTT at 11000, then as depicted to RROYY, then on heading 344°. Expect RADAR vectors to final approach course.
LOST COMMUNICATIONS:
At RROYY, turn right direct OGD VORTAC and hold. Maintain 11000.
NOTE: Chart not to scale.

(DINGO.DINGO5) 16259

DINGO FIVE ARRIVAL

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



NOTE: DME required.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

GILA BEND TRANSITION (GBN.DINGO5): From over GBN VORTAC via GBN R-100 to BASER INT, then via TUS R-295 to DINGO INT. Thence....

PHOENIX TRANSITION (PXR.DINGO5): From over PXR VORTAC via PXR R-163 to TFD VORTAC. Then via TFD R-133 to BASER INT. Then via TUS R-295 to DINGO INT. Thence....

STANFIELD TRANSITION (TFD.DINGO5): From over TFD VORTAC via TFD R-133 to BASER INT. Then via TUS R-295 to DINGO INT. Thence....

....From over DINGO INT via TUS R-295 to MAVVA INT. Thence, for Runway 11L via heading 075° to intercept I-TUS localizer or TUS VORTAC R-303, and expect approach clearance for Rwy 11L. For Runway 29R expect RADAR vectors to final approach course Runway 29R.

SW-4, 05 NOV 2020 to 31 DEC 2020

DINGO FIVE ARRIVAL

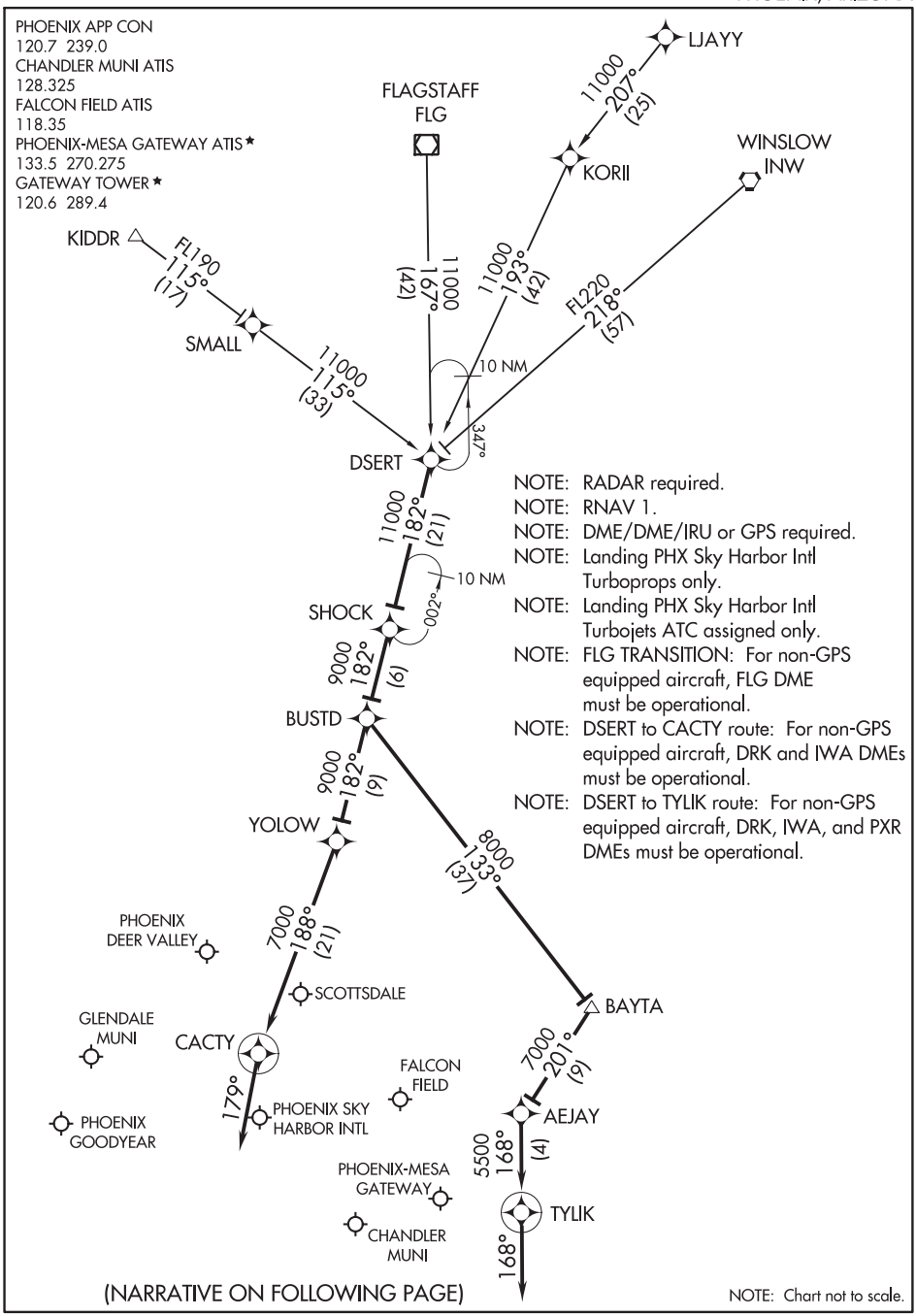
(DINGO.DINGO5) 09JAN92

TUCSON, ARIZONA
TUCSON INTL (TUS)

DSERT TWO ARRIVAL (RNAV)

AL-322 (FAA)

PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DSERT TWO ARRIVAL (RNAV)

PHOENIX, ARIZONA

(DSERT.DSERT2) 18088

DSERT TWO ARRIVAL (RNAV)

AL-322 (FAA)

PHOENIX, ARIZONA

ARRIVAL ROUTE DESCRIPTION

FLAGSTAFF TRANSITION (FLG.DSERT2)
KIDDR TRANSITION (KIDDR.DSERT2)
LJAYY TRANSITION (LJAYY.DSERT2)
WINSLOW TRANSITION (INW.DSERT2)

From DSERT on track 182° to SHOCK, then on track 182° to BUSTD.

LANDING AT KDVT/KSDL/KGEU/KFFZ/KCHD/KGYR/KPHX:
From BUSTD on track 182° to YOLOW, then on track 188° to CACTY then on track 179°. Expect RADAR vectors.

LANDING AT KIWA: From BUSTD on track 133° to BAYTA, then on track 201° to AEJAY, then on track 168° to TYLIK, then on track 168°. Expect RADAR vectors.

SW-4, 05 NOV 2020 to 31 DEC 2020

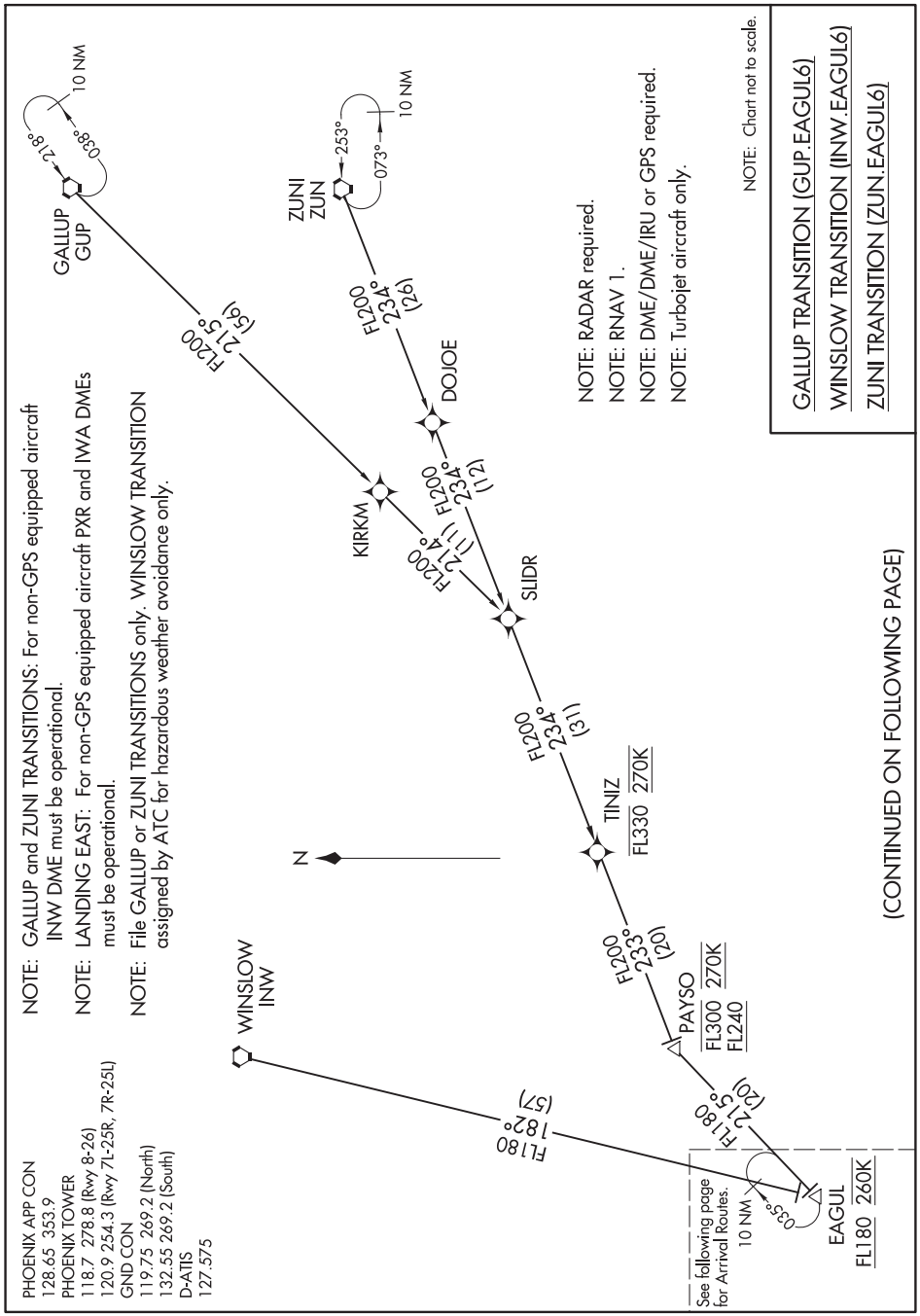
DSERT TWO ARRIVAL (RNAV)

PHOENIX, ARIZONA

(DSERT.DSERT2) 13NOV14

EAGUL SIX ARRIVAL (RNAV) Transition Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

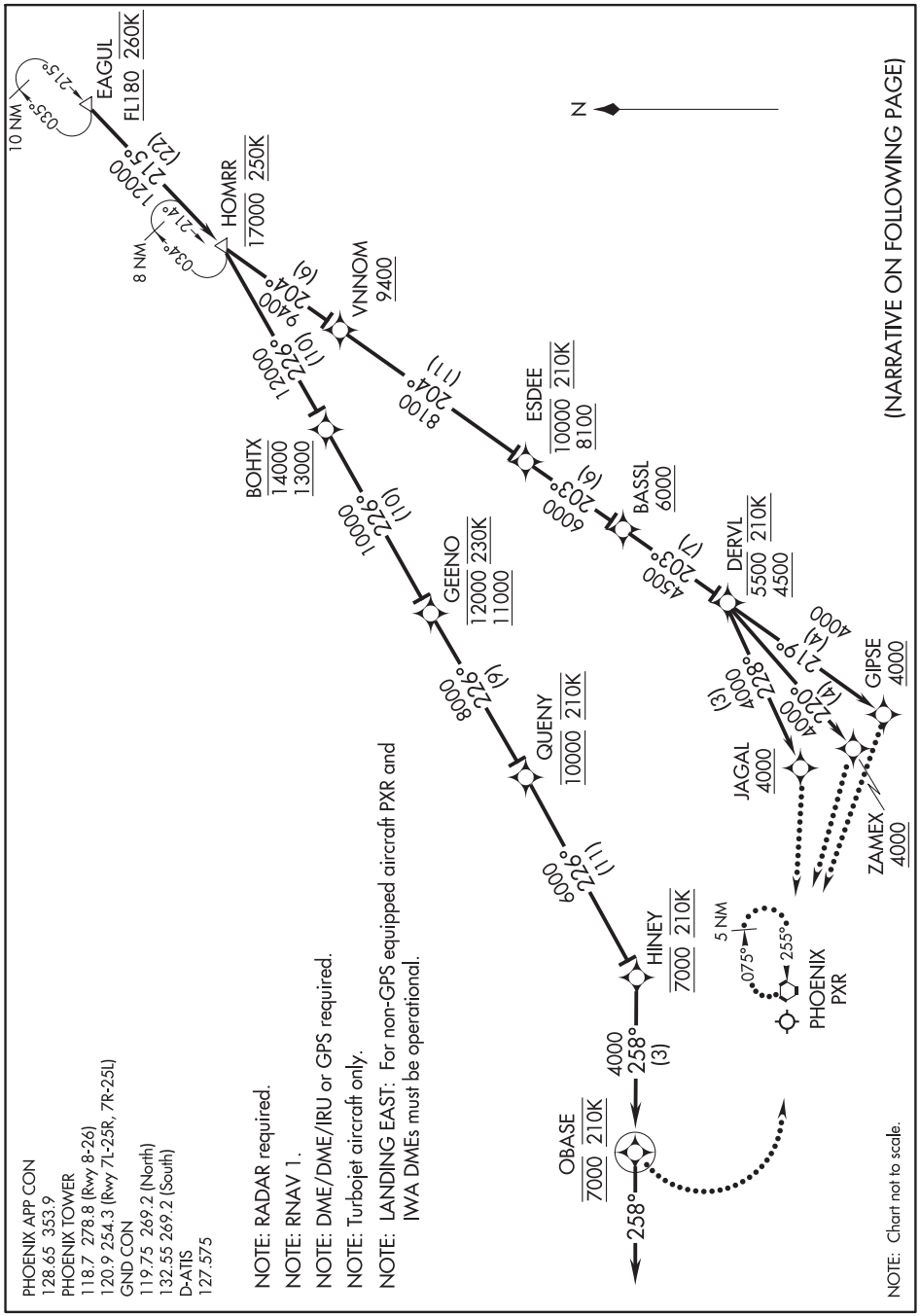
EAGUL SIX ARRIVAL (RNAV) Transition Routes
PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(EAGUL.EAGUL6) 17117

AL-322 (FAA)

EAGUL SIX ARRIVAL (RNAV) Arrival Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



PHOENIX APP CON
128.65 353.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
GND CON
119.75 269.2 (North)
132.55 269.2 (South)
D-ATIS
127.575

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Turbojet aircraft only.

NOTE: LANDING EAST: For non-GPS equipped aircraft PXR and IWA DMEs must be operational.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

EAGUL SIX ARRIVAL (RNAV) Arrival Routes

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(EAGUL.EAGUL6) 18SEP14

ARRIVAL ROUTE DESCRIPTION

From EAGUL on track 215° to cross HOMRR at or below 17000 at 250K.

LANDING RUNWAYS 7L, 7R, 8: From HOMRR on track 226° to cross BOHTX at/above 13000 and at/below 14000, then on track 226° to cross GEENO at/above 11000 and at/below 12000 and at 230K, then on track 226° to cross QUENY at 10000 and at 210K, then on track 226° to cross HINEY at 7000 and at 210K, then on track 258° to cross OBASE at 7000 and at 210K, then on track 258°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 25L: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 and at 210K, then on track 219° to cross GIPSE at/above 4000. Expect ILS or LOC RWY 25L approach or RADAR vectors to final approach course.

LANDING RUNWAY 25R: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 and at 210K, then on track 220° to cross ZAMEX at/above 4000. Expect RNAV (GPS) Y RWY 25R approach or RADAR vectors to final approach course.

LANDING RUNWAY 26: From HOMRR on track 204° to cross VNNOM at/above 9400, then on track 204° to cross ESDEE at/above 8100 and at/below 10000 and at 210K, then on track 203° to cross BASSL at/above 6000, then on track 203° to cross DERVL at/above 4500 and at/below 5500 at 210K, then on track 228° to cross JAGAL at/above 4000. Expect ILS or LOC RWY 26 approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS
LANDING RUNWAY 7L: After OBASE turn left, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 7R: After OBASE turn left, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 8: After OBASE turn left, intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25L: At GIPSE, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25R: At ZAMEX, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 26: At JAGAL, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

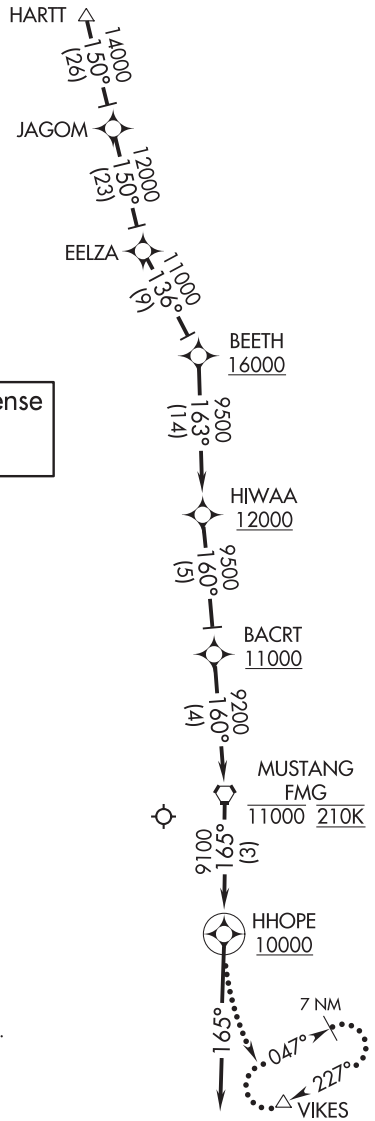
(HARTT.EELZA2) 17173

EELZA TWO ARRIVAL (RNAV)

RENO/TAHOE INTL
RENO, NEVADA

AL-346 (FAA)

D-ATIS
135.8 363.0
RENO TOWER
118.7 257.8
NORCAL APP CON
119.2 279.55
126.3 353.9



CAUTION: Intense Glider Activity to FL180.

NOTE: RADAR required.

NOTE: GPS required.

NOTE: RNAV 1.

NOTE: Chart not to scale.

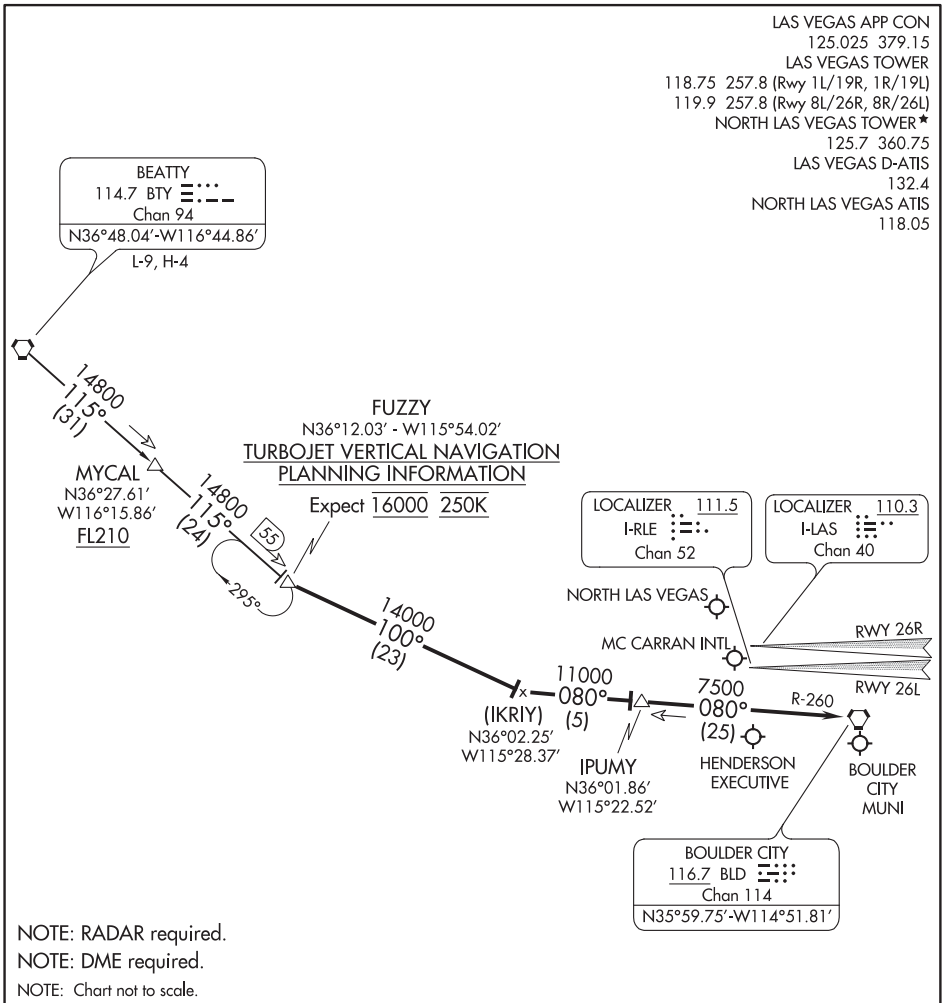
ARRIVAL ROUTE DESCRIPTION

From HARTT on track 150° to JAGOM, then on track 150° to EELZA, then on track 136° to BEETH, then on track 163° to HIWAA, then on track 160° to BACRT, then on track 160° to FMG VORTAC, then on track 165° to cross HHOPE at or above 10000, then on heading 165°. Rwy 34L/34R expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

At HHOPE, climbing left turn to 12000 direct VIKES and hold.

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

BEATTY TRANSITION (BTY.FUZZY8): From over BTY VORTAC on BTY R-115 to FUZZY. Thence . . .

. . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

LANDING LAS RUNWAYS 1L/R, 8L/R, and 19L/R: Expect RADAR vectors for visual approach prior to BLD VORTAC.

LANDING LAS RUNWAYS 26L/R: Expect ILS approach.

LANDING VGT, HND, BVU: Then after IPUMY, expect RADAR vectors to airport.

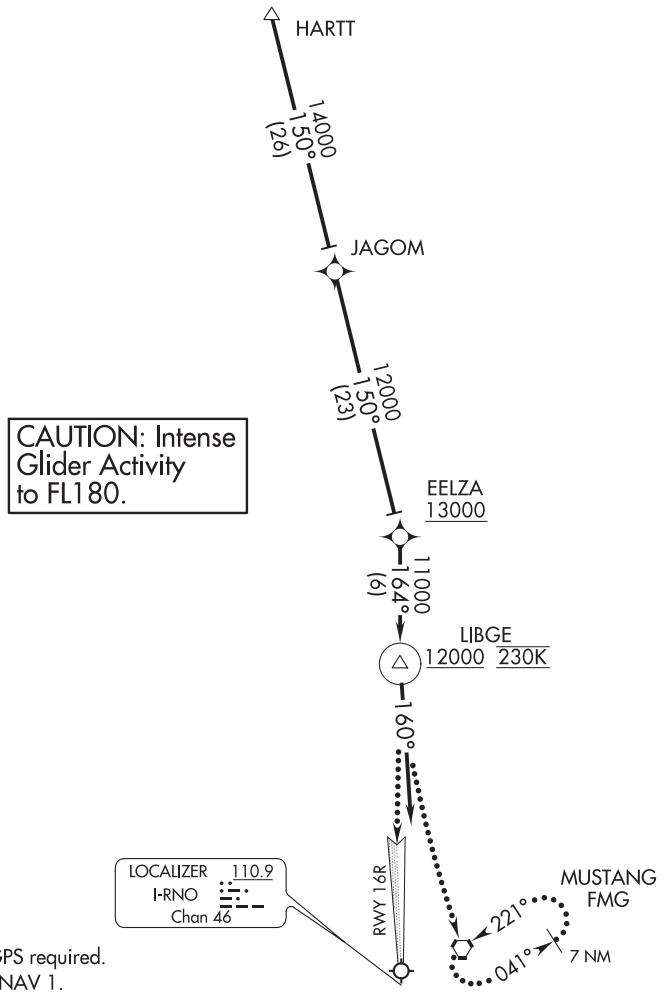
(HARTT.HARTT1) 17173

HARTT ONE ARRIVAL (RNAV)

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

D-ATIS
135.8 363.0
RENO TOWER
118.7 257.8
NORCAL APP CON
119.2 279.55
126.3 353.9



NOTE: GPS required.
NOTE: RNAV 1.
NOTE: Cross EELZA at or above 13000.
NOTE: Cross LIBGE at or above 12000 at 230 KTS.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From HARTT on track 150° to JAGOM, then on track 150° to cross EELZA at or above 13000, then on track 164° to cross LIBGE at or above 12000 at 230 KTS. Then on heading 160° expect ILS RWY 16R or RADAR vectors.

LOST COMMUNICATIONS

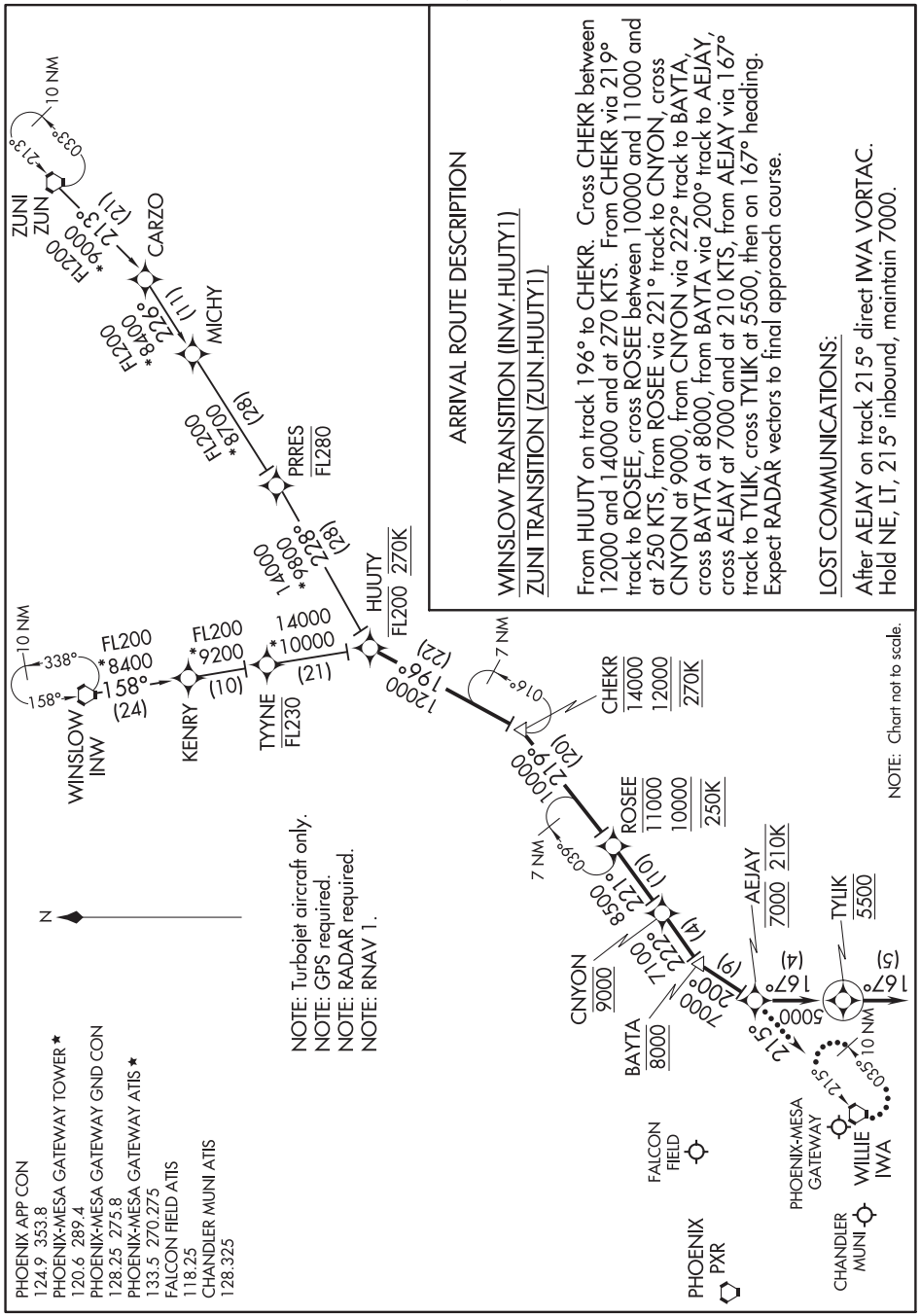
At LIBGE, proceed inbound via RWY 16R ILS approach. If unable, climbing left turn to 12000 direct FMG VORTAC and hold.

SW-4, 05 NOV 2020 to 31 DEC 2020

HUUTY ONE ARRIVAL (RNAV)

AL-74 (FAA)

PHOENIX, ARIZONA



HUUTY ONE ARRIVAL (RNAV)

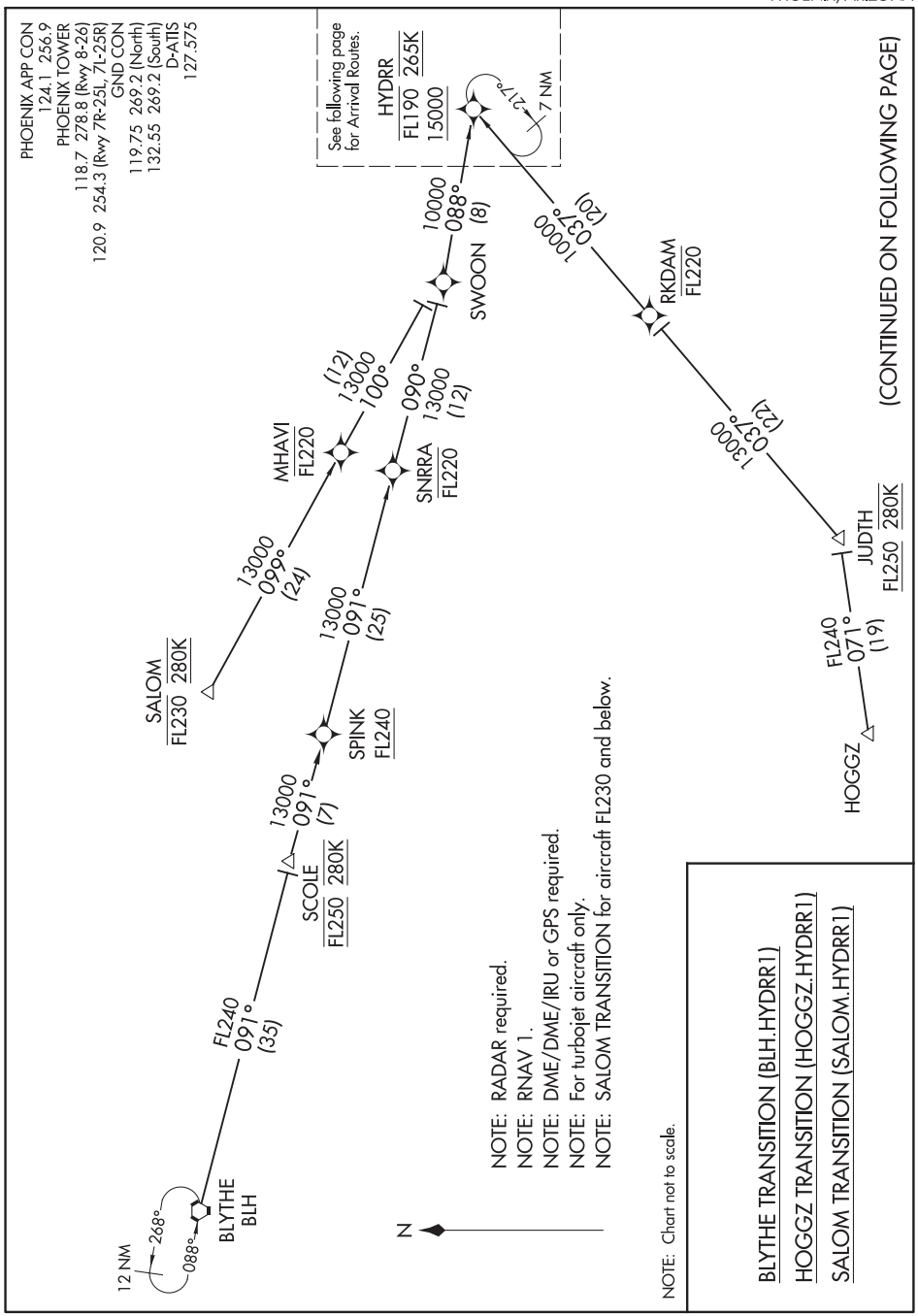
PHOENIX, ARIZONA

(HYDRR.HYDRR1) 17117

AL-322 (FAA)

HYDRR ONE ARRIVAL (RNAV) Transition Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

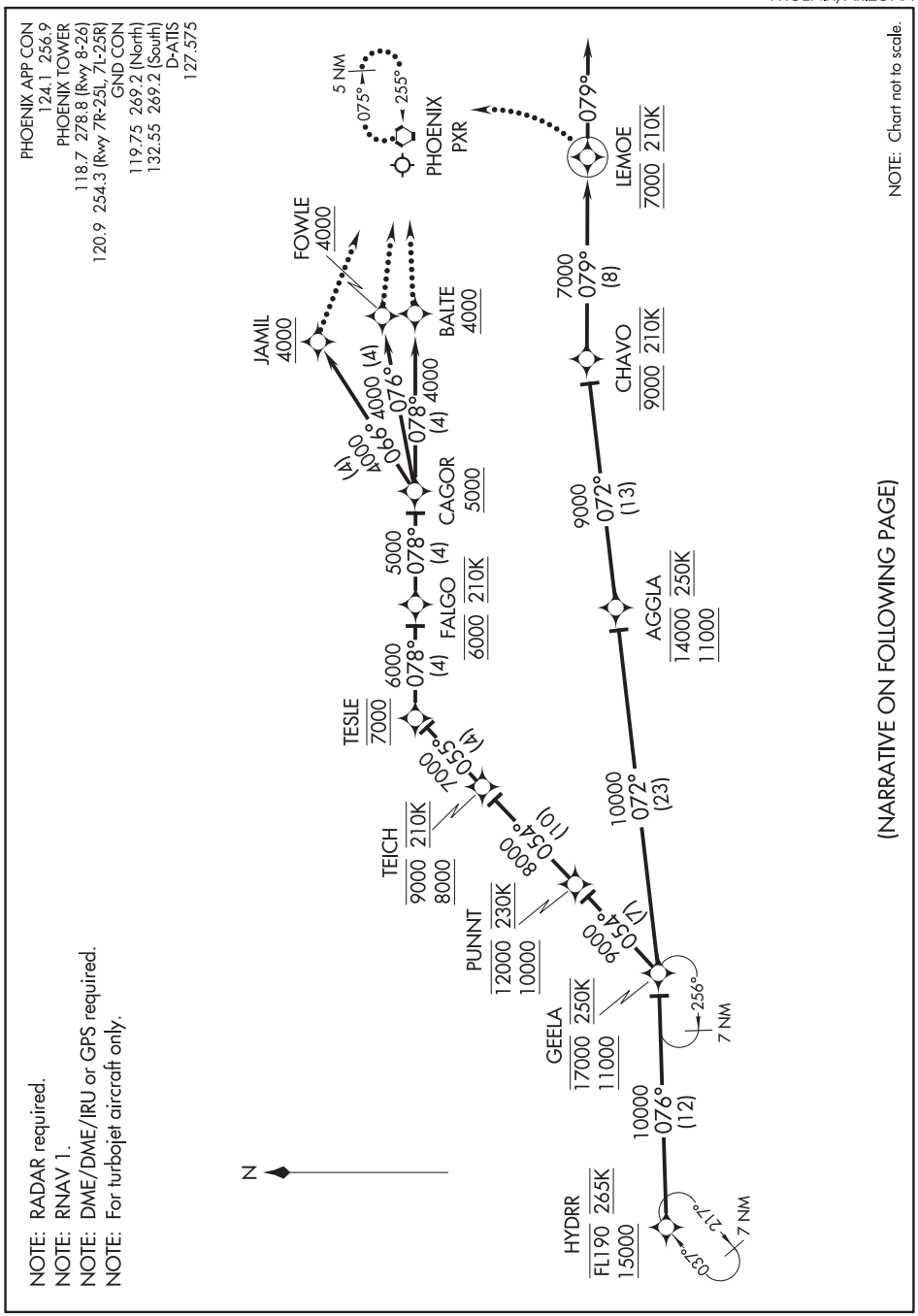
SW-4, 05 NOV 2020 to 31 DEC 2020

HYDRR ONE ARRIVAL (RNAV) Transition Routes

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(HYDRR.HYDRR1) 18SEP14

HYDRR ONE ARRIVAL (RNAV) Arrival Routes



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: For turbojet aircraft only.

SW-4, 05 NOV 2020 to 31 DEC 2020

HYDRR ONE ARRIVAL (RNAV) Arrival Routes
PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

From HYDRR on track 076° track to cross GEELA at/above 11000 and at/below 17000 at 250K.

LANDING RUNWAY 7L: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 076° to cross FOWLE at/above 4000. Expect ILS RWY 7L approach or RADAR vectors to final approach course.

LANDING RUNWAY 7R: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 078° to cross BALTE at/above 4000. Expect ILS RWY 7R approach or RADAR vectors to final approach course.

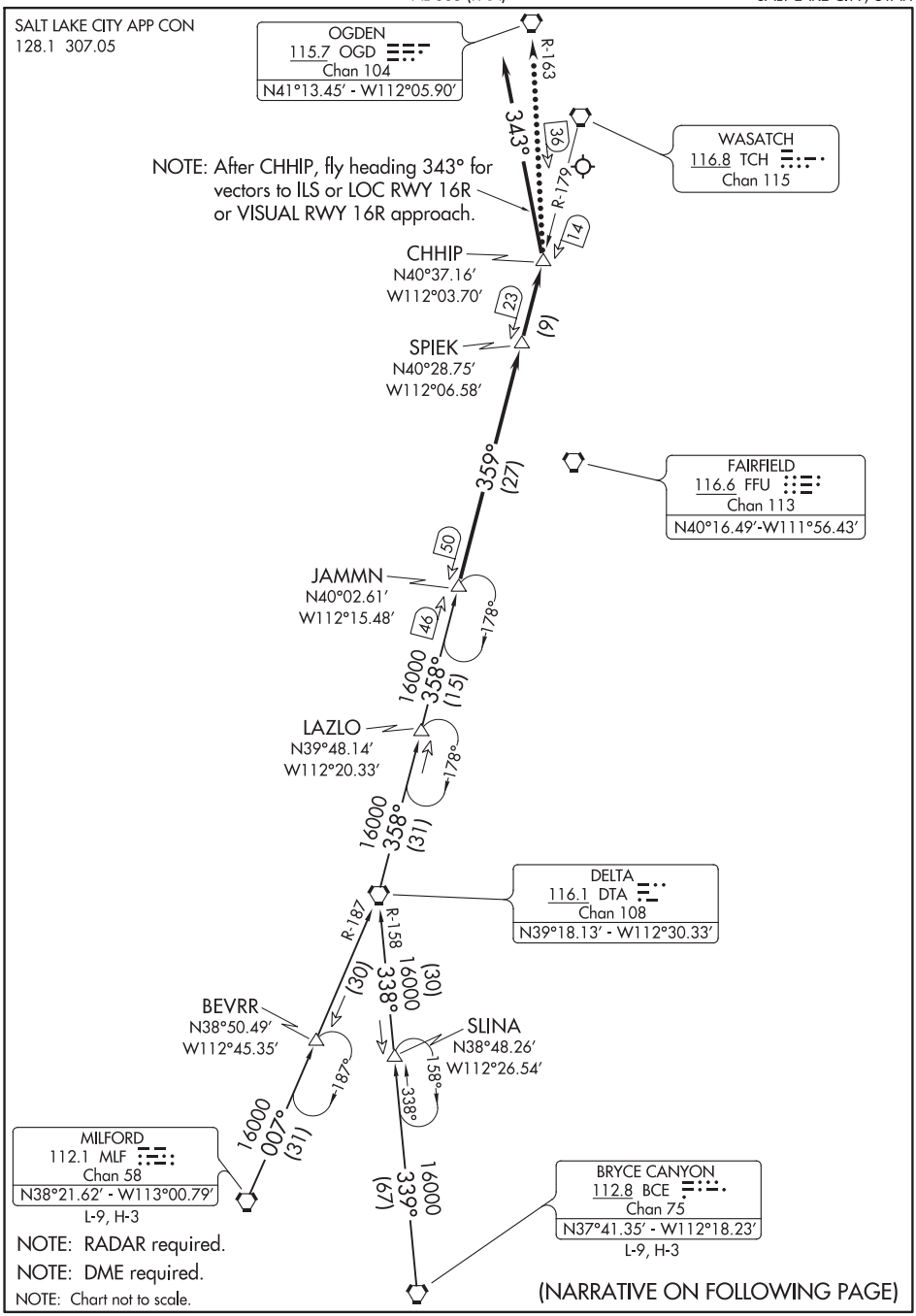
LANDING RUNWAY 8: From GEELA on track 054° to cross PUNNT at/above 10000 and at/below 12000 and at 230K, then on track 054° to cross TEICH at/above 8000 and at/below 9000 and at 210K, then on track 055° to cross TESLE at 7000, then on track 078° to cross FALGO at 6000 and at 210K, then on track 078° to cross CAGOR at/above 5000, then on track 066° to cross JAMIL at/above 4000. Expect ILS RWY 8 approach or RADAR vectors to final approach course.

LANDING RUNWAYS 25L, 25R, 26: From GEELA on track 072° to cross AGGLA at/above 11000 and at/below 14000 and at 250K, then on track 072° to cross CHAVO at 9000 and at 210K, then on track 079° to cross LEMOE at 7000 at 210K, then on track 079°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At FOWLE intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 7R: At BALTE intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 8: At JAMIL intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25L: At LEMOE turn left, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25R: At LEMOE turn left, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 26: At LEMOE, turn left, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020


SALT LAKE CITY APP CON
128.1 307.05
OGDEN
115.7 OGD
Chan 104
N41°13.45′ - W112°05.90′
R-163
343°
36
R-179
WASATCH
116.8 TCH
Chan 115
NOTE: After CHHIP, fly heading 343° for vectors to ILS or LOC RWY 16R or VISUAL RWY 16R approach.
14
CHHIP
N40°37.16′
W112°03.70′
23
(9)
SPIEK
N40°28.75′
W112°06.58′
359°
(27)
FAIRFIELD
116.6 FFU
Chan 113
N40°16.49′-W111°56.43′
50
JAMMN
N40°02.61′
W112°15.48′
46
178°
16000
358°
(15)
LAZLO
N39°48.14′
W112°20.33′
178°
16000
358°
(31)
DELTA
116.1 DTA
Chan 108
N39°18.13′ - W112°30.33′
R-187
R-158
(30)
16000
338°
(30)
BEVRR
N38°50.49′
W112°45.35′
SLINA
N38°48.26′
W112°26.54′
187°
158°
338°
16000
007°
(31)
MILFORD
112.1 MLF
Chan 58
N38°21.62′ - W113°00.79′
L-9, H-3
16000
339°
(67)
BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35′ - W112°18.23′
L-9, H-3
NOTE: RADAR required.
NOTE: DME required.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

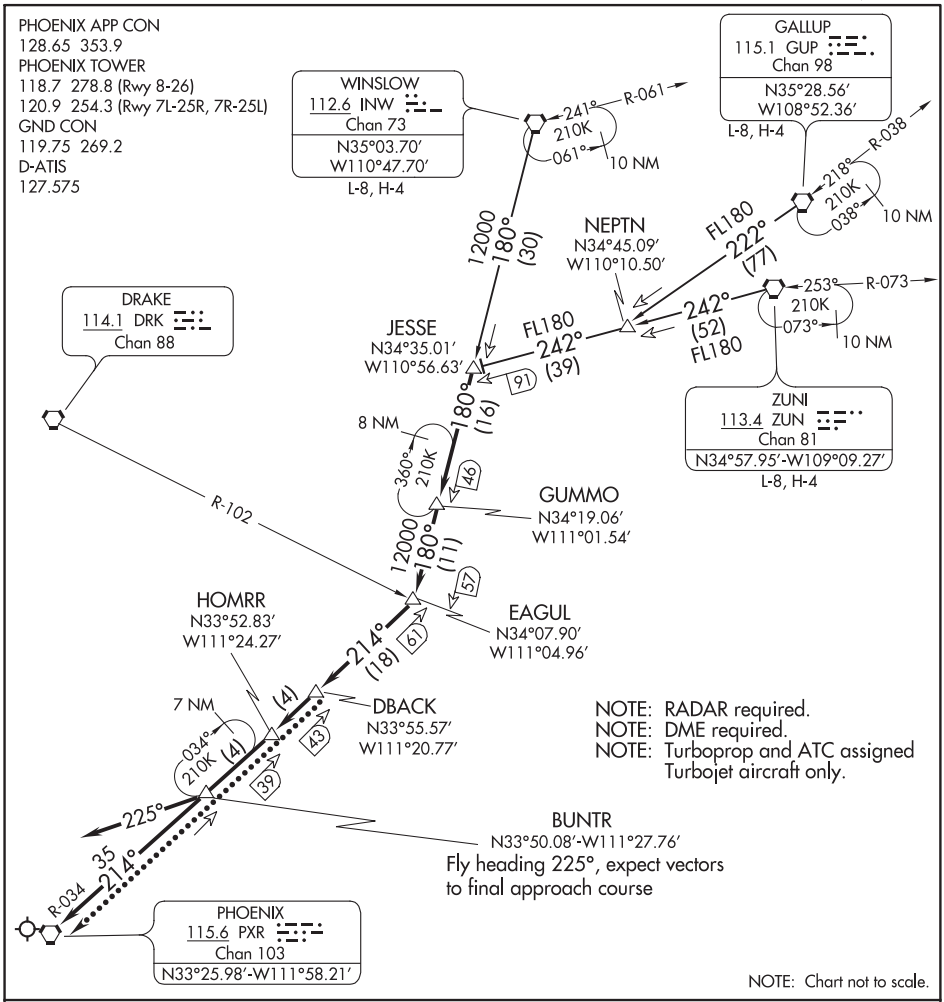
BRYCE CANYON TRANSITION (BCE.JAMMN5): From over BCE VORTAC via BCE R-339 and DTA R-158 to DTA VORTAC. Then via DTA R-358 to JAMMN. Thence. . . .
MILFORD TRANSITION (MLF.JAMMN5): From over MLF VORTAC via MLF R-007 and DTA R-187 to DTA VORTAC. Then via DTA R-358 to JAMMN. Thence. . . .

. . . .From JAMMN on TCH VORTAC R-179 to CHHIP, then fly heading 343° for vectors to ILS or LOC RWY 16R or VISUAL Rwy 16R approach.

LOST COMMUNICATIONS
In the event of lost communications, at CHHIP proceed direct OGD VORTAC. Maintain 11000 until OGD VORTAC.

JESSE TWO ARRIVAL

AL-322 (FAA)



ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.JESSE2): From over GUP VORTAC on GUP R-222 and ZUN R-242 to JESSE INT. Thence. . . .

WINSLOW TRANSITION (INW.JESSE2): From over INW VORTAC on INW R-180 to JESSE INT. Thence. . . .

ZUNI TRANSITION (ZUN.JESSE2): From over ZUN VORTAC on ZUN R-242 to JESSE INT. Thence. . . .

. . . .From over JESSE on INW R-180 to GUMMO, then on INW R-180 to EAGUL, then on PXR R-034 to DBACK, then on PXR R-034 to HOMRR, then on PXR R-034 to PXR VORTAC.

LOST COMMUNICATIONS

After DBACK, proceed direct to PXR VORTAC.

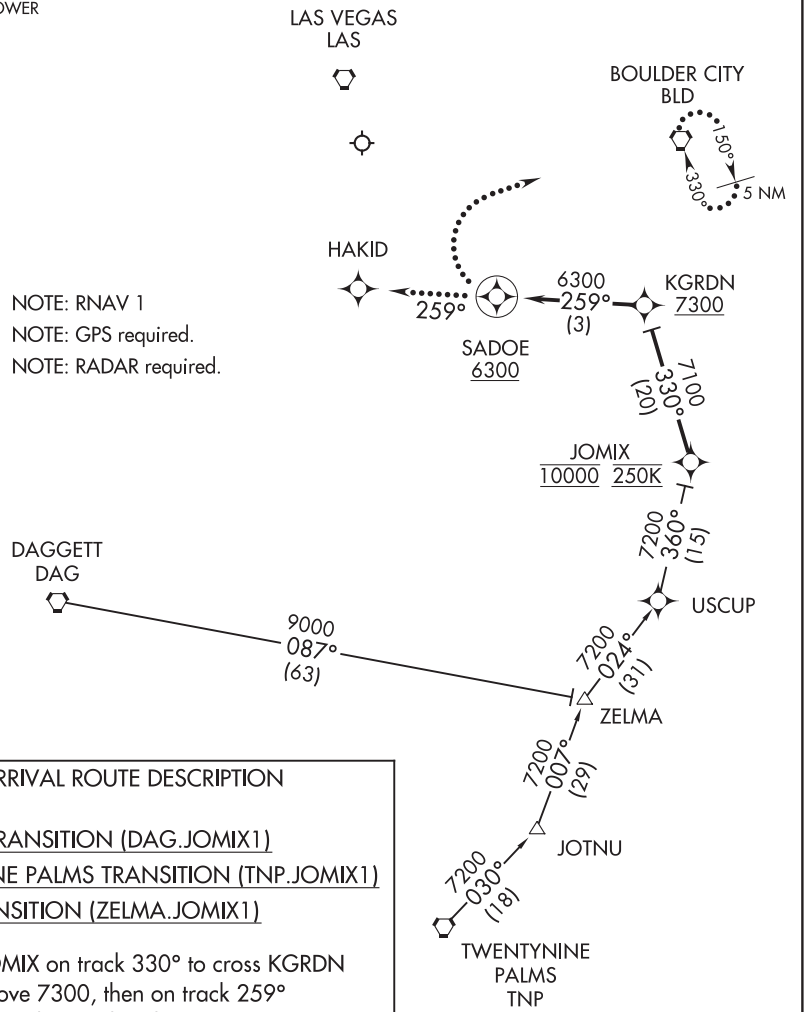
(JOMIX.JOMIX1) 16315

JOMIX ONE ARRIVAL (RNAV)

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA

LAS VEGAS APP CON
125.9
HENDERSON TOWER
125.1
ATIS
120.775



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

ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.JOMIX1)
TWENTYNINE PALMS TRANSITION (TNP.JOMIX1)
ZELMA TRANSITION (ZELMA.JOMIX1)

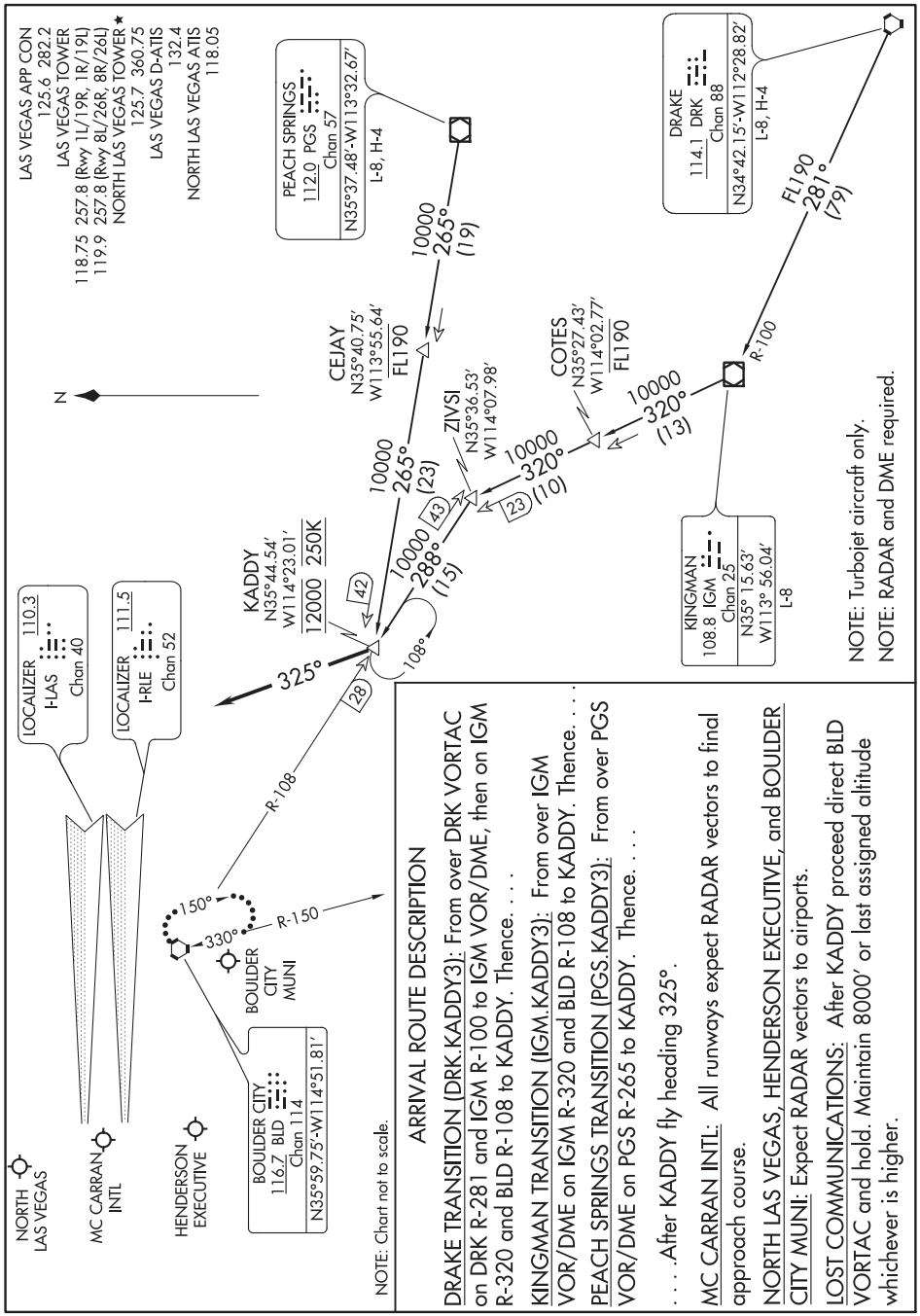
From JOMIX on track 330° to cross KGRDN at or above 7300, then on track 259° to SADOE, then on heading 259°. Expect RADAR vectors RNAV (GPS)-B final approach course or visual approach.

LOST COMMUNICATIONS:
At SADOE, proceed direct HAKID and execute RNAV (GPS)-B approach. If unable, turn right direct BLD and hold, maintain 7000′.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.KADDY3): From over DRK VORTAC on DRK R-281 and IGM R-100 to IGM VOR/DME, then on IGM R-320 and BLD R-108 to KADDY. Thence. . . .

KINGMAN TRANSITION (IGM.KADDY3): From over IGM VOR/DME on IGM R-320 and BLD R-108 to KADDY. Thence. . . .

PEACH SPRINGS TRANSITION (PGS.KADDY3): From over PGS VOR/DME on PGS R-265 to KADDY. Thence. . . .

. . . .After KADDY fly heading 325°.

MC CARRAN INTL: All runways expect RADAR vectors to final approach course.

NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect RADAR vectors to airports.

LOST COMMUNICATIONS: After KADDY proceed direct BLD VORTAC and hold. Maintain 8000′ or last assigned altitude whichever is higher.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

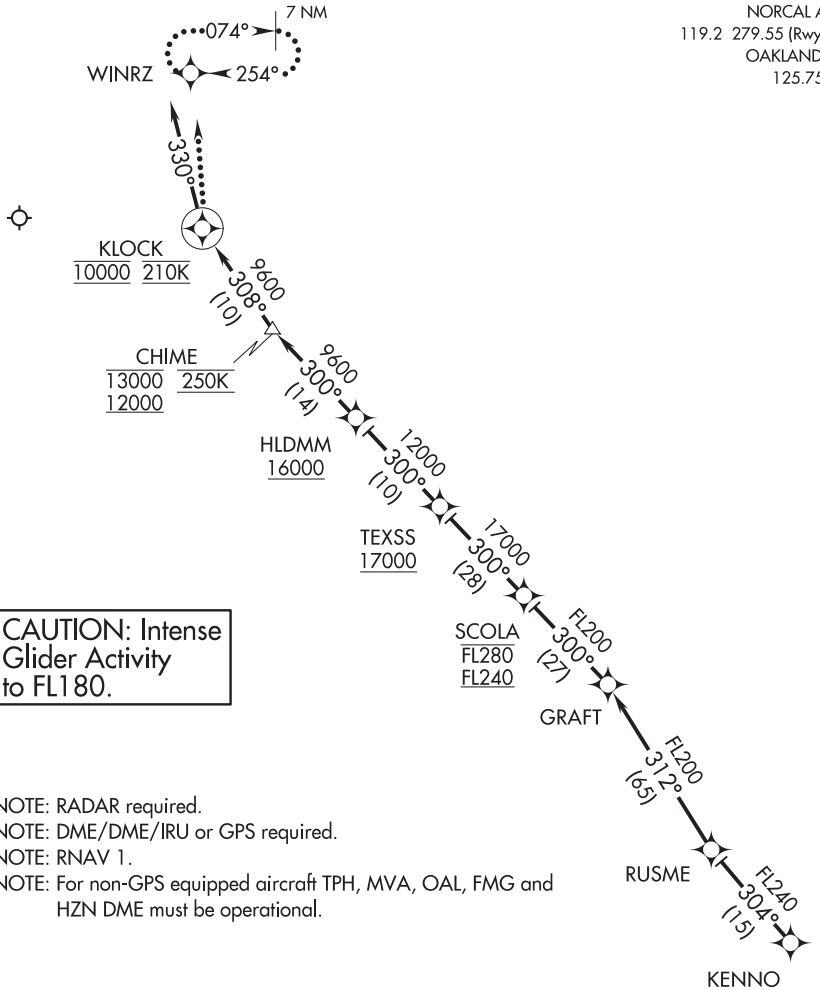
(KENNO.KENNO2) 17173

KENNO TWO ARRIVAL (RNAV)

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

D-ATIS
135.8 363.0
NORCAL APP CON
119.2 279.55 (Rwys 16 L/R)
OAKLAND CENTER
125.75 284.65



CAUTION: Intense Glider Activity to FL180.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For non-GPS equipped aircraft TPH, MVA, OAL, FMG and HZN DME must be operational.

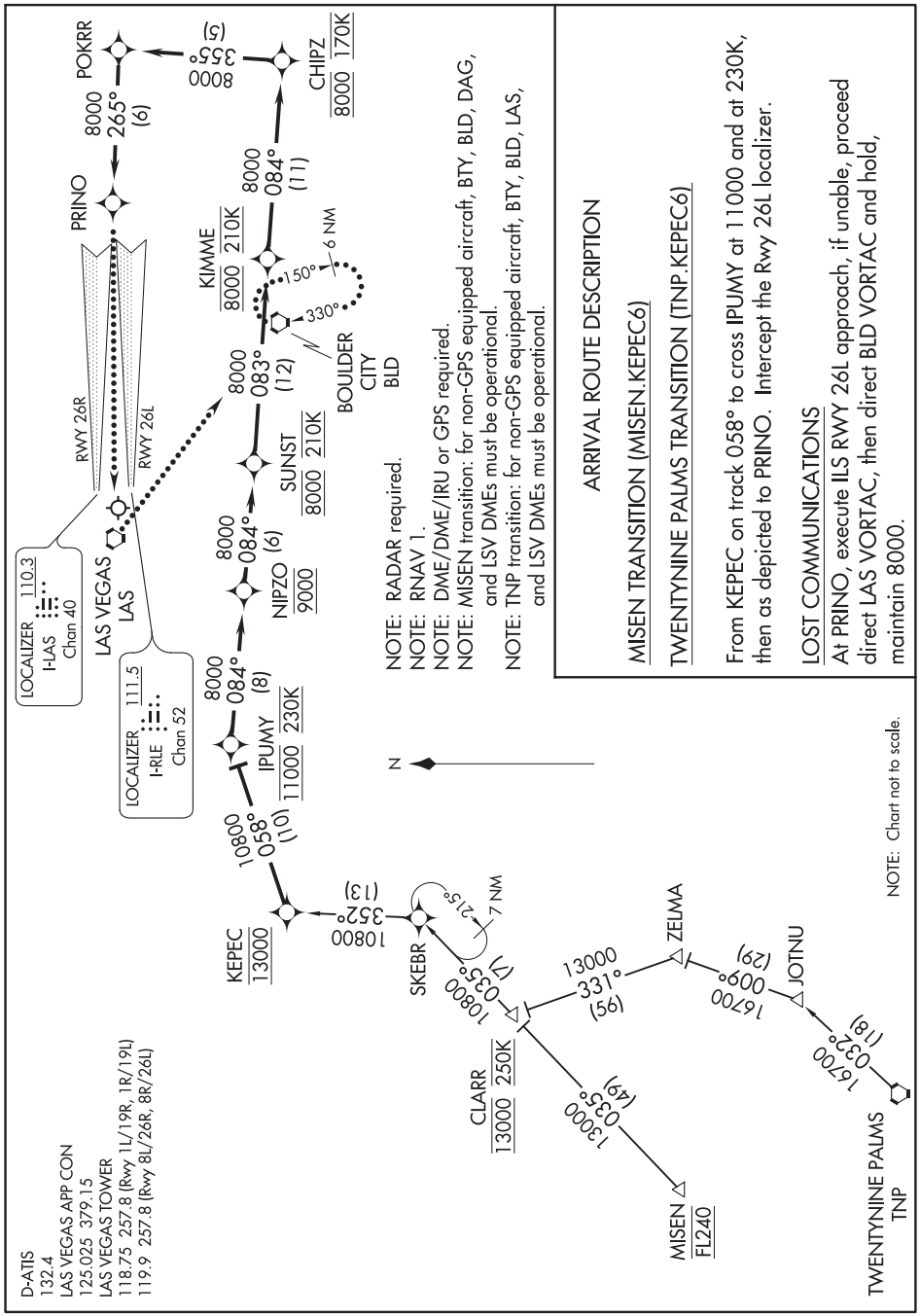
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From KENNO on track 304° to RUSME, then as depicted to cross KLOCK at 10000′ at 210K, then on heading 330°. Rwy 16L/16R expect RADAR vectors to final approach course.

LOST COMMUNICATIONS:
At KLOCK, turn right direct to WINRZ and hold, maintain 10000′.

SW-4, 05 NOV 2020 to 31 DEC 2020

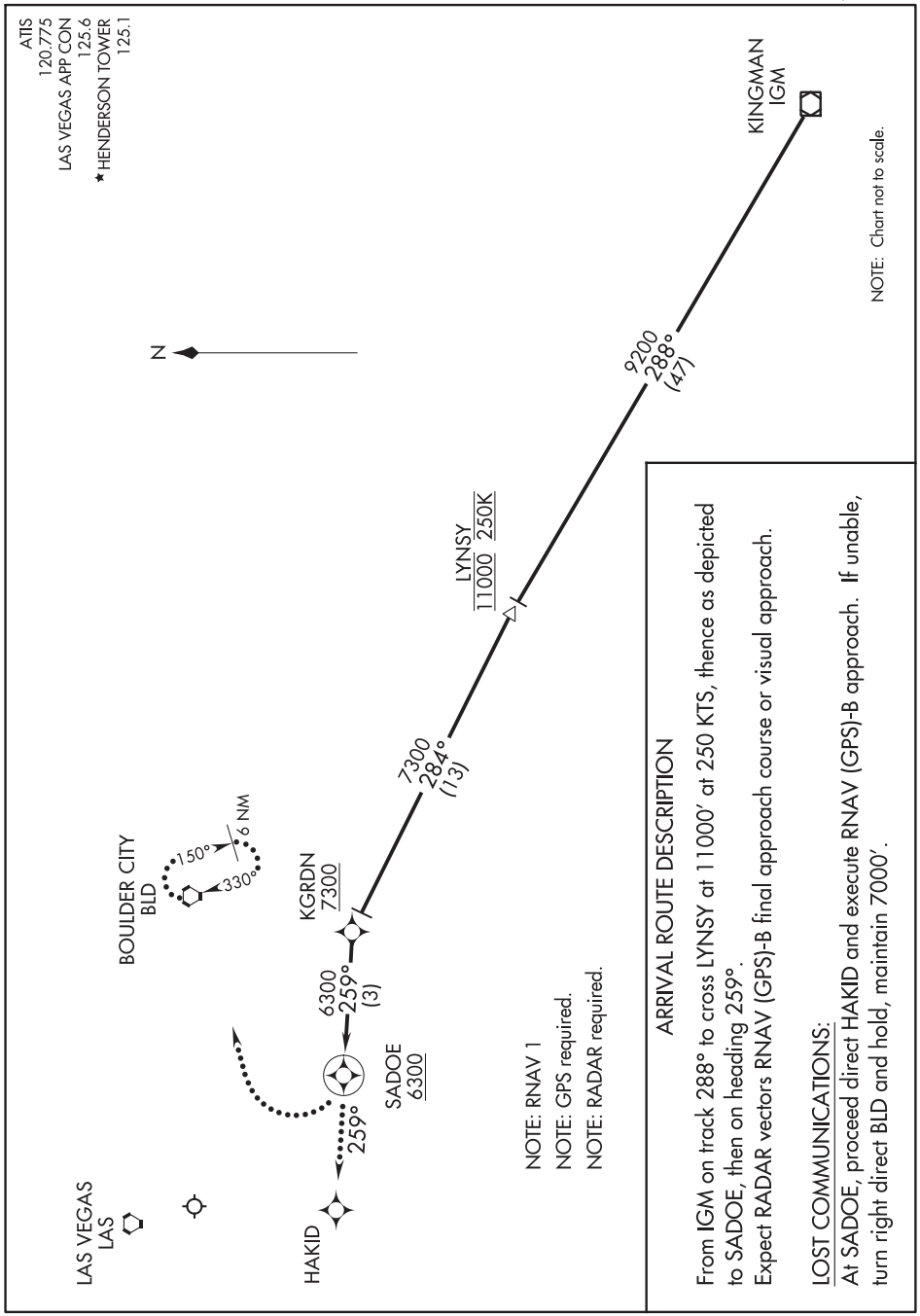

D-ATIS
132.4
LAS VEGAS APP CON
125.025 379.15
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 8L/26R, 8R/26L)
LOCALIZER 110.3
I-LAS
Chan 40
LAS VEGAS
LAS
LOCALIZER 111.5
I-RLE
Chan 52
RWY 26R
RWY 26L
PRINO
POKRR
8000
265°
(6)
8000
355°
(5)
CHIPZ
8000 170K
KIMME
8000 210K
8000
084°
(11)
6 NM
150°
330°
BOULDER
CITY
BLD
8000
083°
(12)
SUNST
8000 210K
8000
084°
(6)
NIPZO
9000
8000
084°
(8)
IPUMY
11000 230K
10800
058°
(10)
KEPEC
13000
10800
352°
(13)
SKEBR
7 NM
215°
10800
035°
(7)
13000
131°
(9)
CLARR
13000 250K
13000
035°
(49)
MISEN
FL240
ZELMA
16700
009°
(29)
JOTNU
16700
032°
(18)
TWENTYNINE PALMS
TNP
N
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: MISEN transition: for non-GPS equipped aircraft, BTY, BLD, DAG, and LSV DMEs must be operational.
NOTE: TNP transition: for non-GPS equipped aircraft, BTY, BLD, LAS, and LSV DMEs must be operational.
ARRIVAL ROUTE DESCRIPTION
MISEN TRANSITION (MISEN.KEPEC6)
TWENTYNINE PALMS TRANSITION (TNP.KEPEC6)
From KEPEC on track 058° to cross IPUMY at 11000 and at 230K, then as depicted to PRINO. Intercept the Rwy 26L localizer.
LOST COMMUNICATIONS
At PRINO, execute ILS RWY 26L approach, if unable, proceed direct LAS VORTAC, then direct BLD VORTAC and hold, maintain 8000.
NOTE: Chart not to scale.
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(IGM.KNGMN2) 16315

KNGMN TWO ARRIVAL (RNAV)

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA



ARRIVAL ROUTE DESCRIPTION

From IGM on track 288° to cross LYNSY at 11000' at 250 KTS, thence as depicted to SADOE, then on heading 259°.
Expect RADAR vectors RNAV (GPS)-B final approach course or visual approach.

LOST COMMUNICATIONS:
At SADOE, proceed direct HAKID and execute RNAV (GPS)-B approach. If unable, turn right direct BLD and hold, maintain 7000'.

SW-4, 05 NOV 2020 to 31 DEC 2020

KNGMN TWO ARRIVAL (RNAV)

(IGM.KNGMN2) 30JUN11

LAS VEGAS, NEVADA
HENDERSON EXECUTIVE (HND)

LEEHY FIVE ARRIVAL (RNAV)

HELPR TRANSITION (HELPR.LEEHY5)
MEEKER TRANSITION (EKR.LEEHY5)

From SPANE on track 285° to LEEHY, thence via runway transition.

LANDING RUNWAYS 16L/R and 17: From LEEHY on track 285° to FFU VORTAC, then on track 319° to DRYVE, then as depicted to RROYY, then on 344° heading. Expect RADAR vectors to final approach course.

LANDING NORTH RUNWAYS 34L/R and 35: From LEEHY on track 303° to BLUPE, then on track 311° to KAMMP, then on track 344° to PLAGE, then on 344° heading. Rwy 34R intercept I-SLC localizer. Proceed inbound, expect ILS/VISUAL approach. Rwys 34L and 35 expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING NORTH: At PLAGE, turn left direct FFU VORTAC and hold. Maintain 11000.

LANDING SOUTH: At RROYY, turn right direct OGD VORTAC and hold. Maintain 11000.

NOTE: EKR TRANSITION landing north: For non-GPS equipped aircraft PUC and DTA DMEs must be operational. Landing south: For non-GPS equipped aircraft DTA, TCH, PUC, and PVU DMEs must be operational.

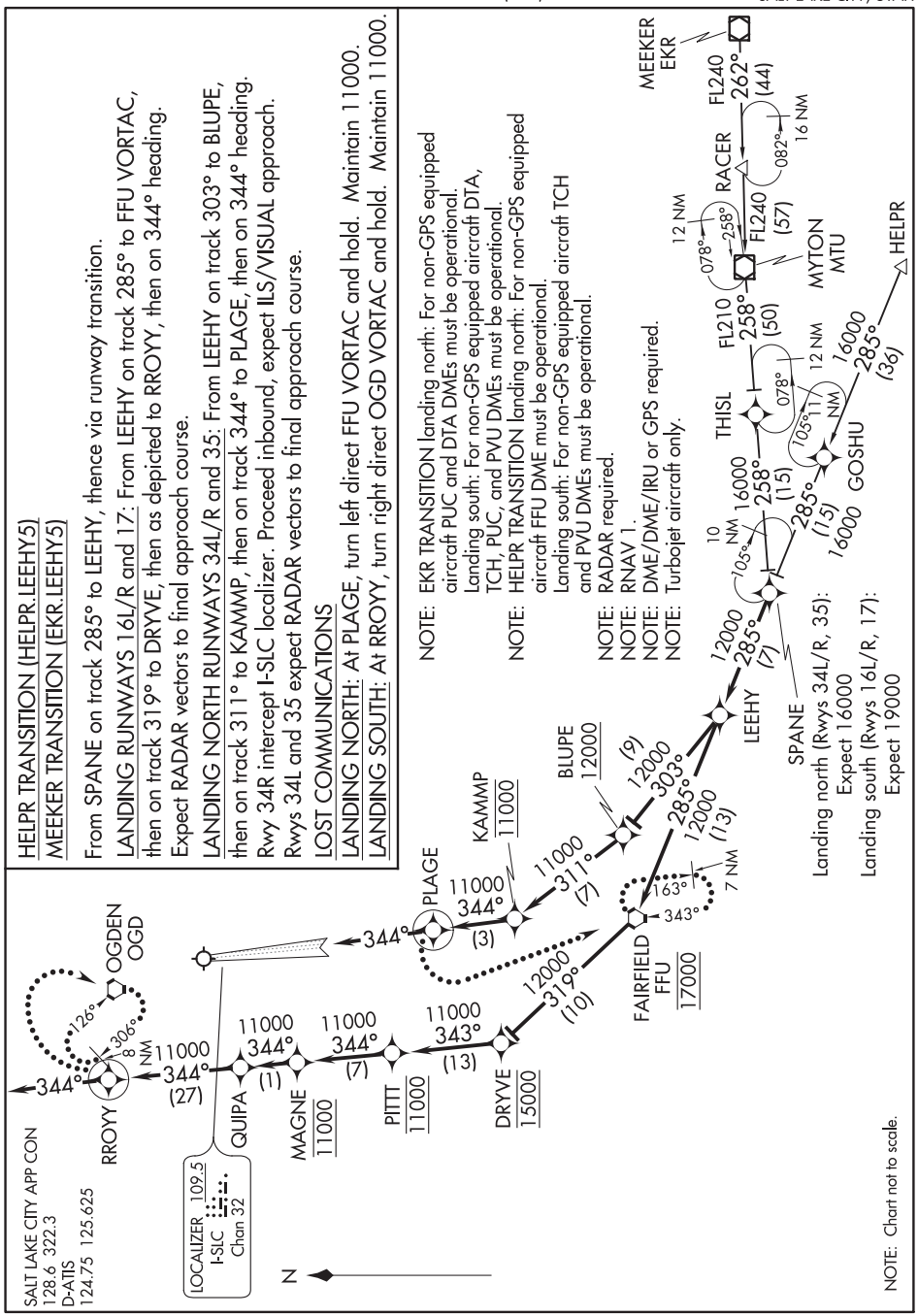
NOTE: HELPR TRANSITION landing north: For non-GPS equipped aircraft FFU DME must be operational. Landing south: For non-GPS equipped aircraft TCH and PVU DMEs must be operational.

NOTE: RADAR required.

NOTE: RNAV 1.

NOTE: DME/DME/IRU or GPS required.

NOTE: Turbojet aircraft only.



NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

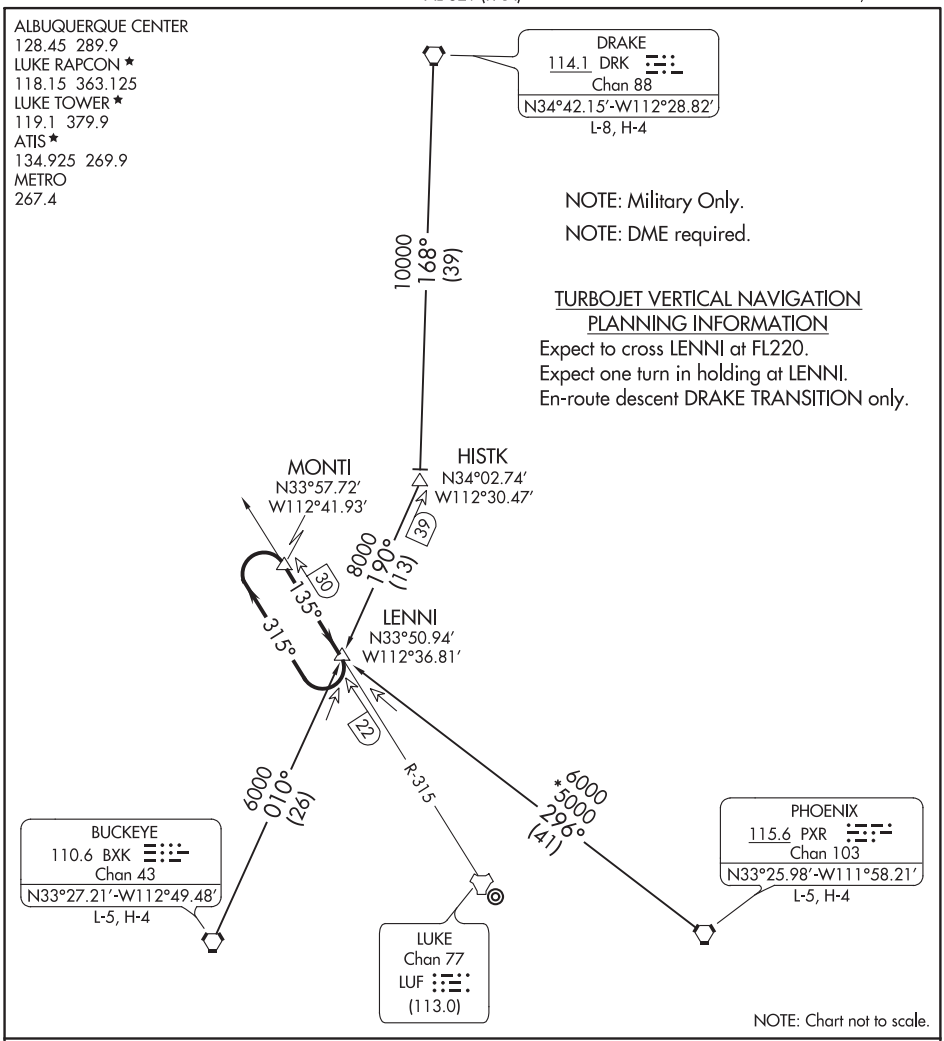
SW-4, 05 NOV 2020 to 31 DEC 2020

(LENNI.LENNI3) 18032

LENNI THREE ARRIVAL

AL-321 (FAA)

LUKE AIR FORCE BASE (LUF)
GLENDALE, ARIZONA



ARRIVAL ROUTE DESCRIPTION

BUCKEYE TRANSITION (BXK.LENNI3): From over BXK VORTAC via BXK R-010 to LENNI INT. Thence . . . .

DRAKE TRANSITION (DRK.LENNI3): From over DRK VORTAC via DRK R-168 and BXK R-010 to LENNI INT. Thence . . . .

PHOENIX TRANSITION (PXR.LENNI3): From over PXR VORTAC via PXR R-296 to LENNI INT. Thence . . . .

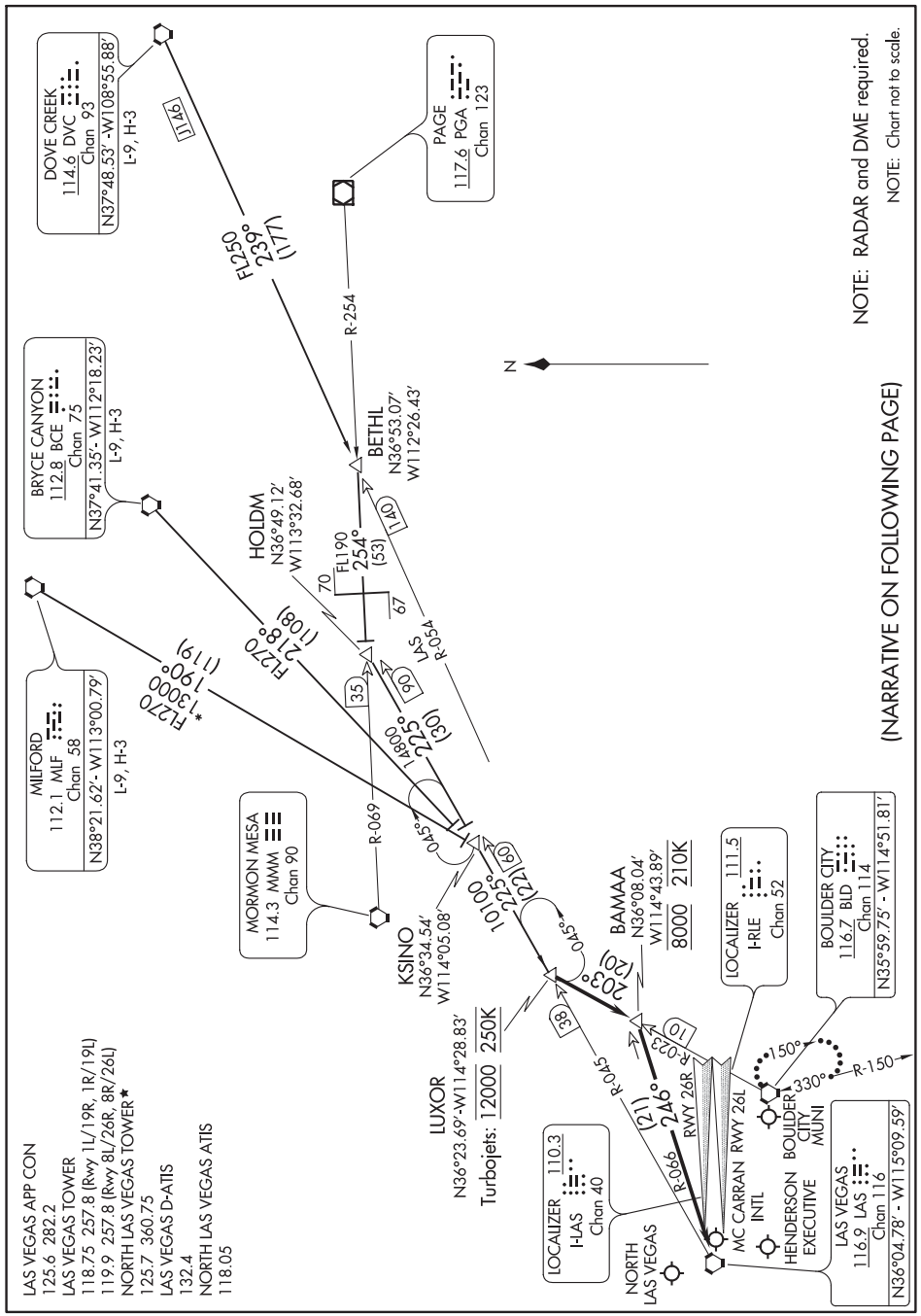
. . . . expect one turn in holding at LENNI INT followed by HI-TACAN/HI-ILS or LOC/DME to Luke AFB.

SW-4, 05 NOV 2020 to 31 DEC 2020

LENNI THREE ARRIVAL

(LENNI.LENNI3) 31AUG08

GLENDALE, ARIZONA
LUKE AIR FORCE BASE (LUF)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

BETHL TRANSITION (BETHL.LUXOR2): From over BETHL INT on PGA R-254 and MMM R-069 to HOLDM INT, then on LAS R-045 to LUXOR INT. Thence. . . .

BRYCE CANYON TRANSITION (BCE.LUXOR2): From over BCE VORTAC on BCE R-218 and LAS R-045 to LUXOR INT. Thence. . . .

DOVE CREEK TRANSITION (DVC.LUXOR2): From over DVC VORTAC on DVC R-239 and LAS R-054 to BETHL INT, then on PGA R-254 and MMM R-069 to HOLDM INT, then on LAS R-045 to LUXOR INT. Thence. . . .

MILFORD TRANSITION (MLF.LUXOR2): From over MLF VORTAC on MLF R-190 and LAS R-045 to LUXOR INT. Thence. . . .

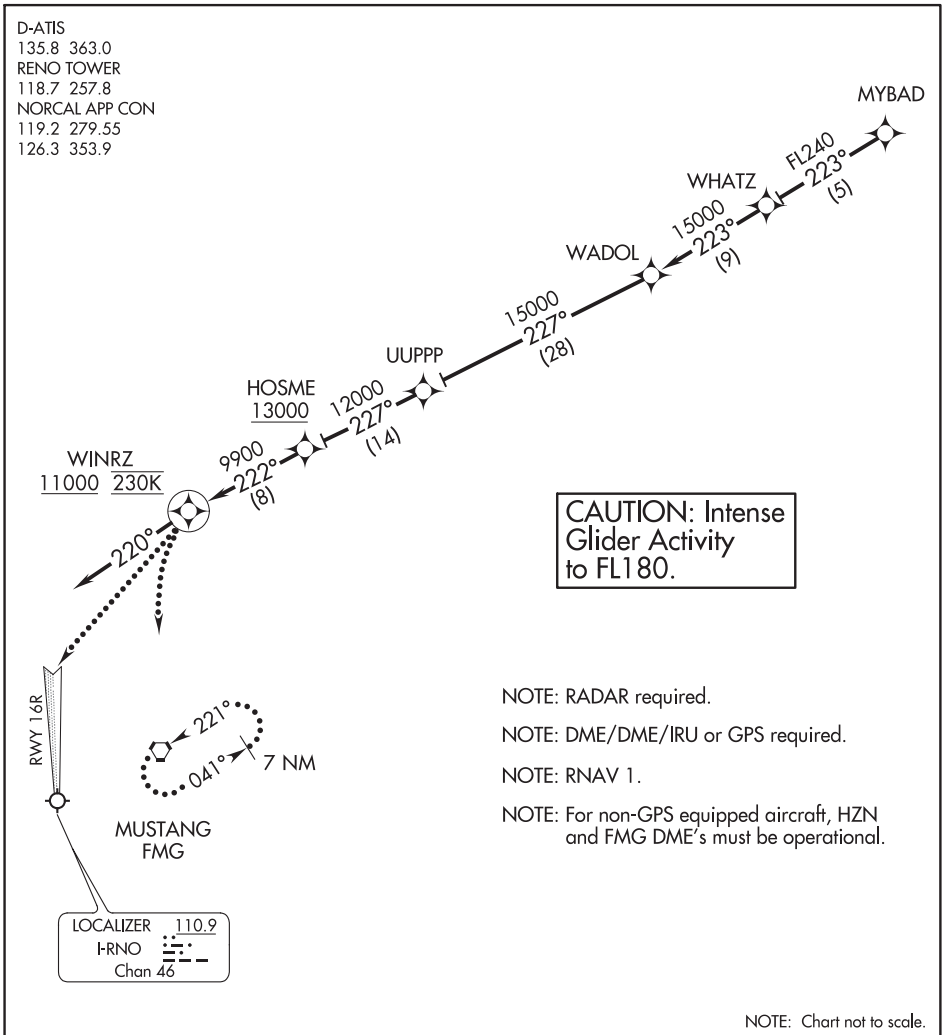
. . . .From over LUXOR INT on BLD R-023 to BAMAA INT, thence on LAS R-066 to LAS VORTAC. Thence. . . .

LANDING MC CARRAN INTL: All runways expect RADAR vectors to final approach course.

LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI: Expect RADAR vectors to airport.

LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000′ or last assigned altitude whichever is higher.

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ARRIVAL ROUTE DESCRIPTION

From MYBAD on track 223° to WHATZ, then as depicted to cross WINRZ at or above 11000 at 230 KTS, then on heading 220°. Rwy 16R/16L expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

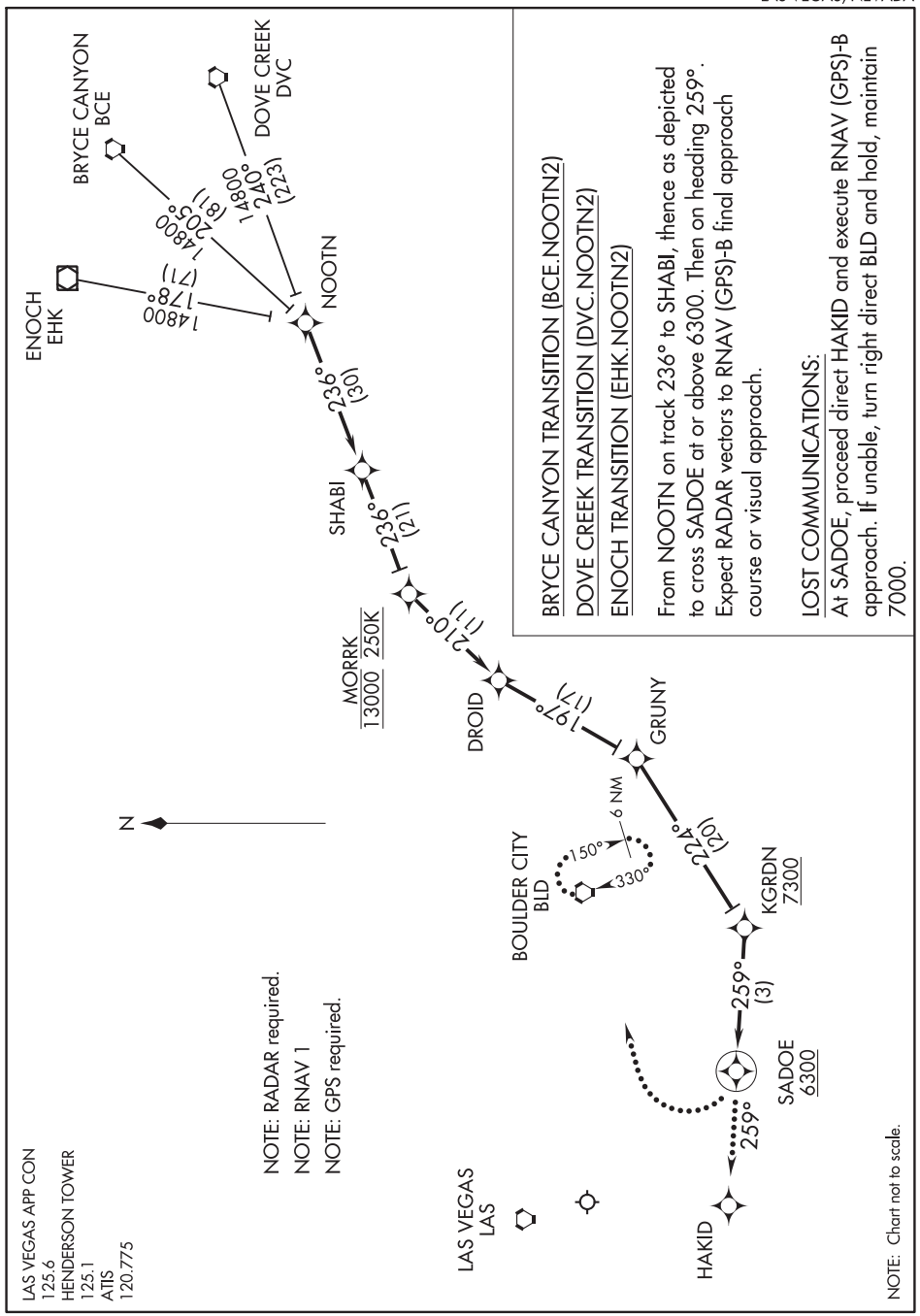
At WINRZ, proceed inbound via RWY 16R ILS approach. If unable, climbing left turn to 12000 direct to FMG VORTAC and hold. Continue climb in hold to 12000.

(NOOTN.NOOTN2) 17005

NOOTN TWO ARRIVAL (RNAV)

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

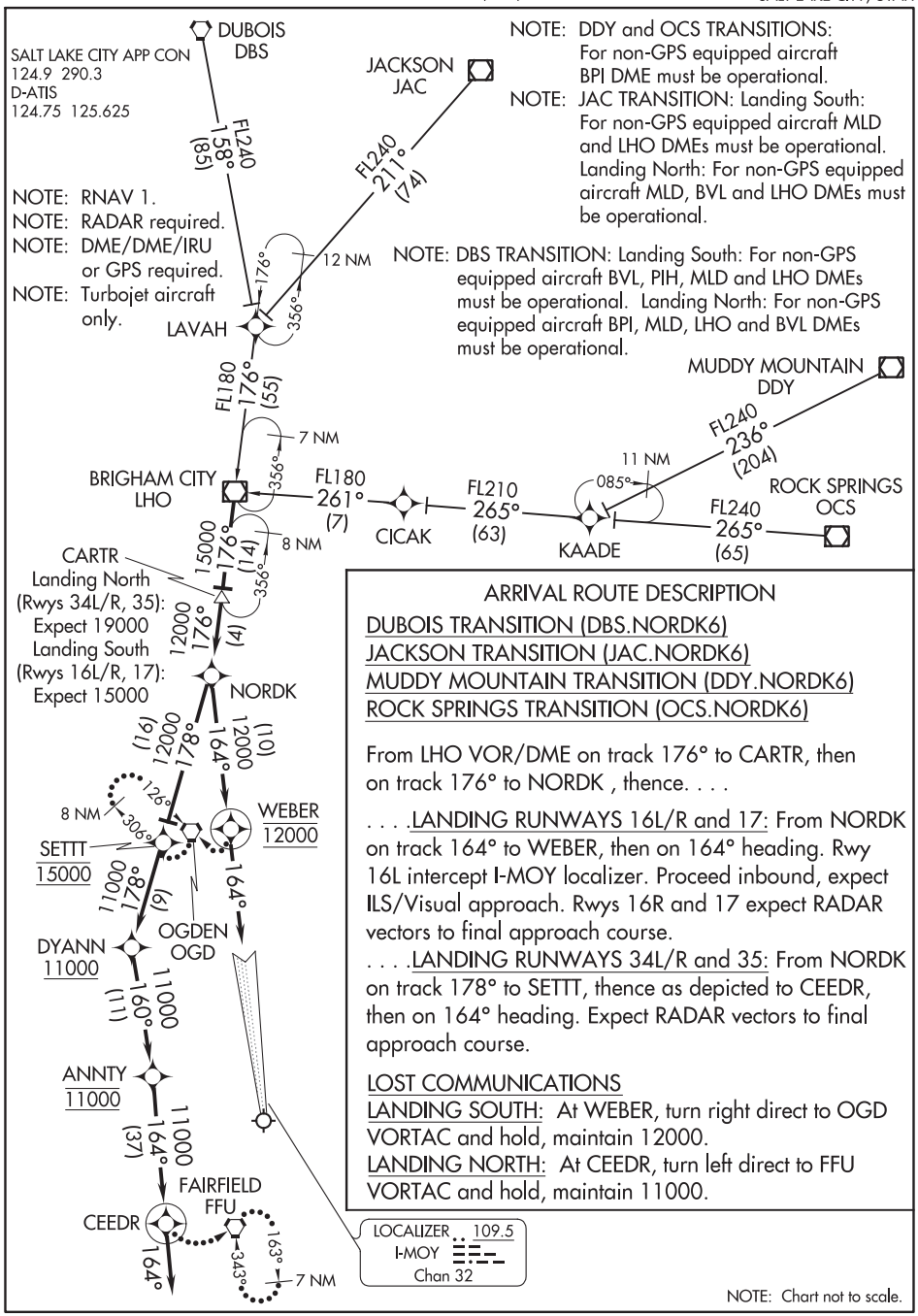
SW-4, 05 NOV 2020 to 31 DEC 2020

NOOTN TWO ARRIVAL (RNAV)

(NOOTN.NOOTN2) 05JAN17

LAS VEGAS, NEVADA
HENDERSON EXECUTIVE (HND)

NORDK SIX ARRIVAL (RNAV)



ARRIVAL ROUTE DESCRIPTION

DUBOIS TRANSITION (DBS.NORDK6)
JACKSON TRANSITION (JAC.NORDK6)
MUDDY MOUNTAIN TRANSITION (DDY.NORDK6)
ROCK SPRINGS TRANSITION (OCS.NORDK6)

From LHO VOR/DME on track 176° to CARTR, then on track 176° to NORDK , thence. . . .

. . . .LANDING RUNWAYS 16L/R and 17: From NORDK on track 164° to WEBER, then on 164° heading. Rwy 16L intercept I-MOY localizer. Proceed inbound, expect ILS/Visual approach. Rwys 16R and 17 expect RADAR vectors to final approach course.

. . . .LANDING RUNWAYS 34L/R and 35: From NORDK on track 178° to SETTT, thence as depicted to CEEDR, then on 164° heading. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

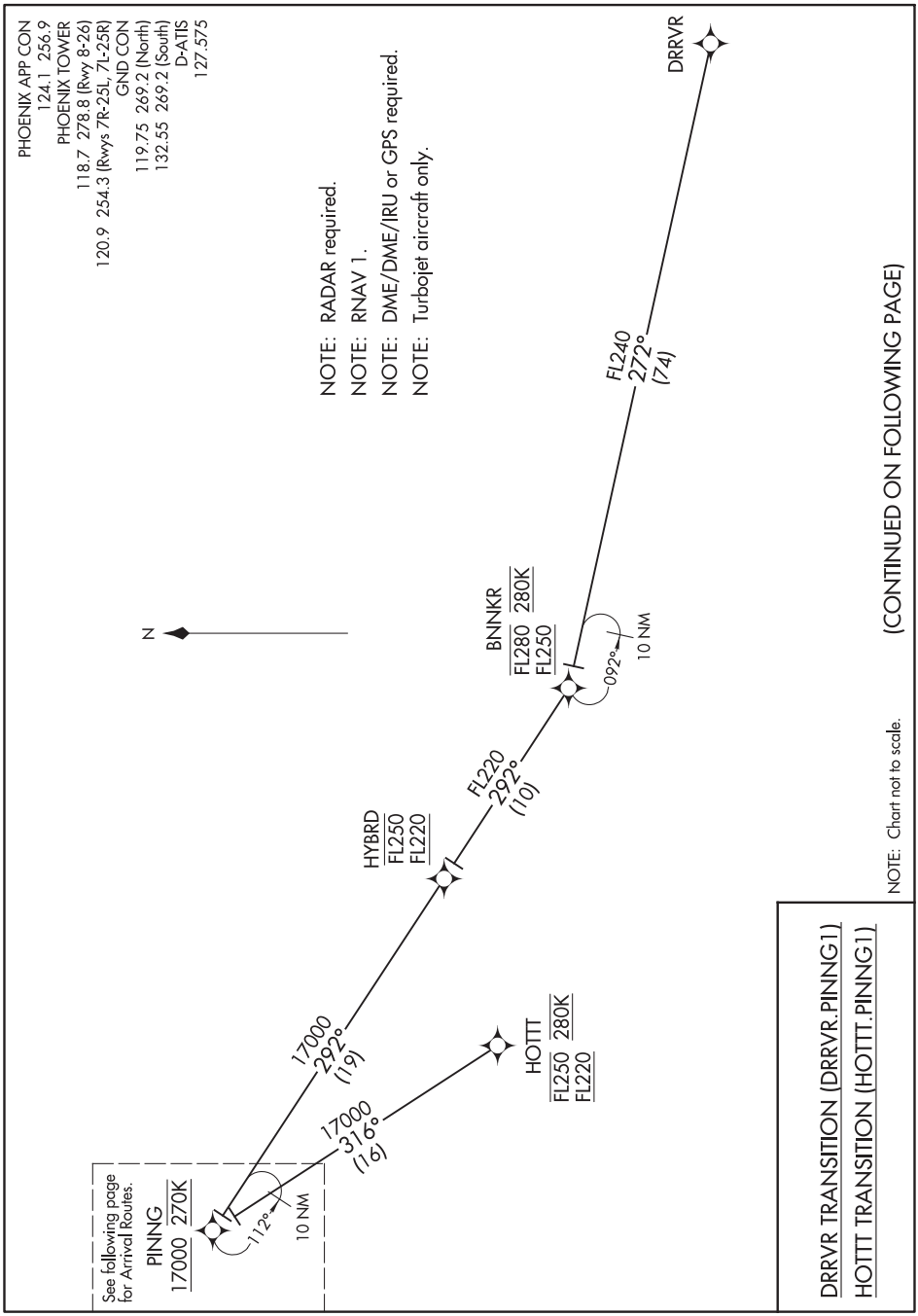
LANDING SOUTH: At WEBER, turn right direct to OGD VORTAC and hold, maintain 12000.

LANDING NORTH: At CEEDR, turn left direct to FFU VORTAC and hold, maintain 11000.

(PINNG.PINNG1) 17117 AL-322 (FAA)

PINNG ONE ARRIVAL (RNAV) Transition Routes

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



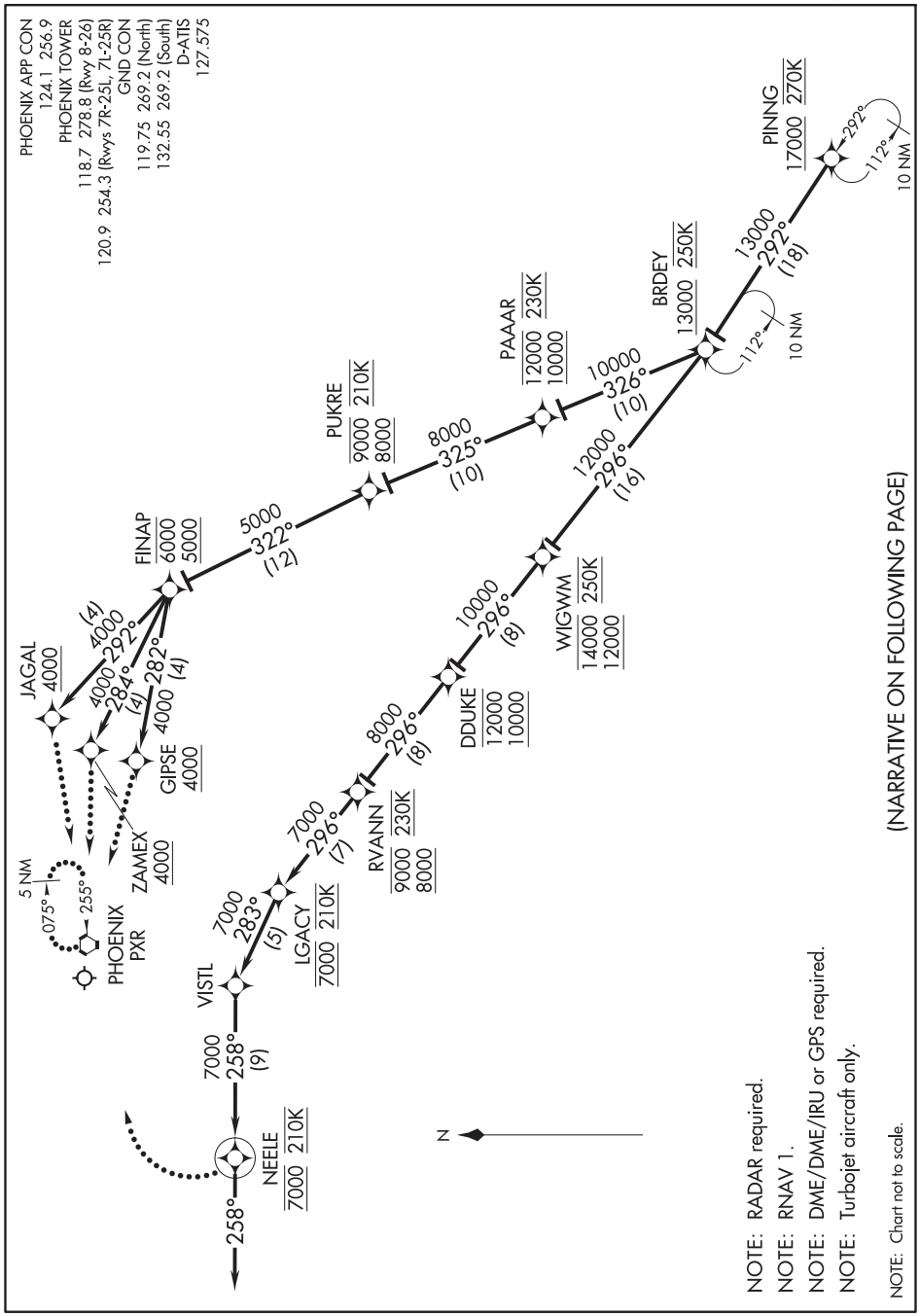
SW-4, 05 NOV 2020 to 31 DEC 2020

PINNG ONE ARRIVAL (RNAV) Transition Routes

(PINNG.PINNG1) 18SEP14

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

PINNG ONE ARRIVAL (RNAV) Arrival Routes



SW-4, 05 NOV 2020 to 31 DEC 2020

PINNG ONE ARRIVAL (RNAV) Arrival Routes

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

From PINNG on track 292° to cross BRDEY at/above 13000 and at 250K.

LANDING RUNWAYS 7L, 7R, 8: From BRDEY on track 296° to cross WIGWM at/above 12000 and at/below 14000 and at 250K, then on track 296° to cross DDUKE at/above 10000 and at/below 12000, then on track 296° to cross RVANN at/above 8000 and at/below 9000 and at 230K, then on track 296° to cross LGACY at 7000 and at 210K, then on track 283° to VISTL, then on track 258° to cross NEELE at 7000 and at 210K, then on track 258°. Expect RADAR vectors to final approach course.

LANDING RUNWAY 25L: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 282° track to cross GIPSE at/above 4000. Expect ILS or LOC RWY 25L approach or RADAR vectors to final approach course.

LANDING RUNWAY 25R: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 284° to cross ZAMEX at/above 4000. Expect RNAV (GPS) Y or (RNP) Z RWY 25R approach or RADAR vectors to final approach course.

LANDING RUNWAY 26: From BRDEY on track 326° to cross PAAAR at/above 10000 and at/below 12000 and at 230K, then on track 325° to cross PUKRE at/above 8000 and at/below 9000 and at 210K, then on track 322° to cross FINAP at/above 5000 and at/below 6000, then on track 292° to cross JAGAL at/above 4000. Expect ILS or LOC RWY 26 approach or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 7L: At NEELE turn right, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 7R: At NEELE turn right, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 8: At NEELE turn right, intercept and execute RWY 8 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25L: At GIPSE intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 25R: At ZAMEX intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.
LANDING RUNWAY 26: At JAGAL intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

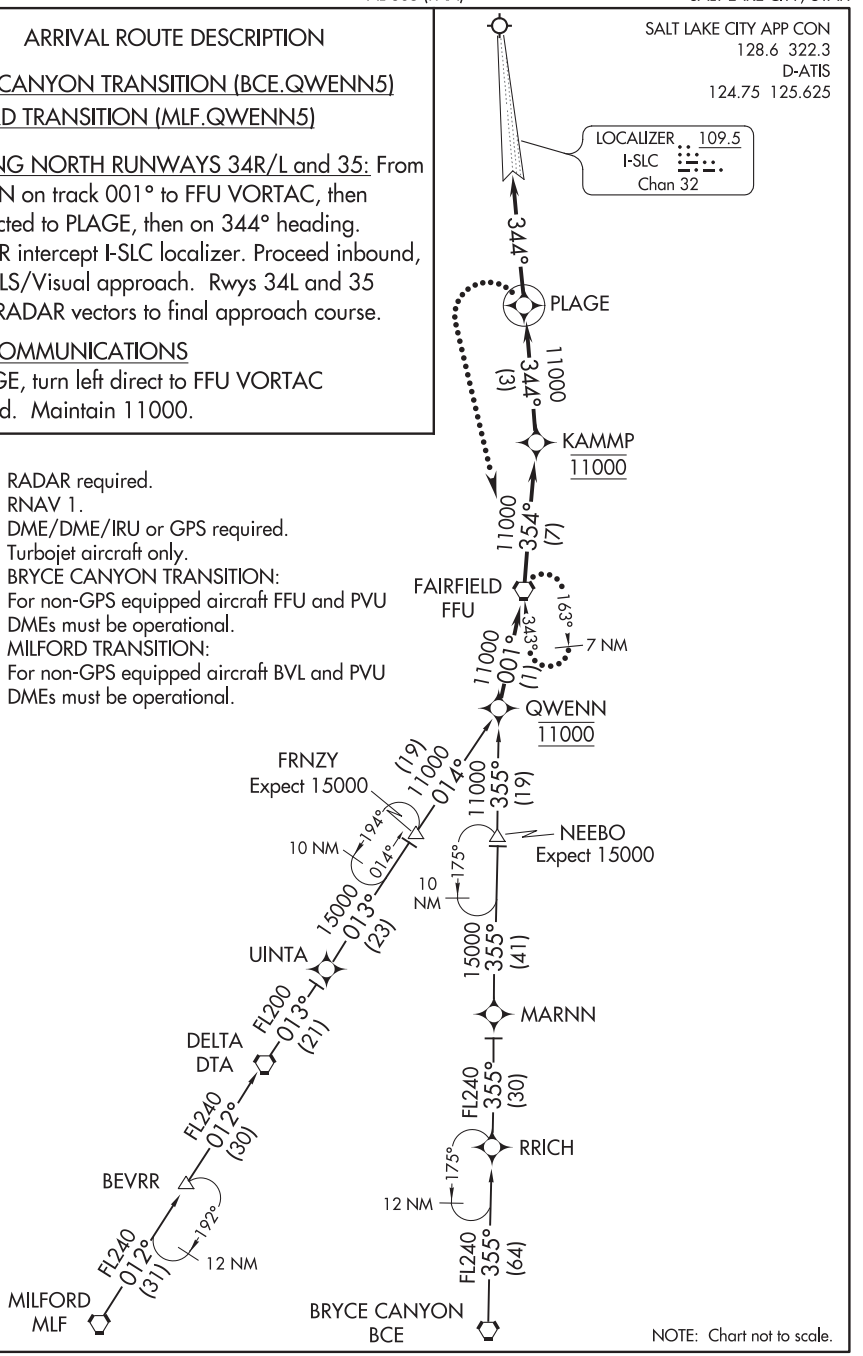
ARRIVAL ROUTE DESCRIPTION

BRYCE CANYON TRANSITION (BCE.QWENN5)
MILFORD TRANSITION (MLF.QWENN5)

LANDING NORTH RUNWAYS 34R/L and 35: From QWENN on track 001° to FFU VORTAC, then as depicted to PLAGE, then on 344° heading. Rwy 34R intercept I-SLC localizer. Proceed inbound, expect ILS/Visual approach. Rwys 34L and 35 expect RADAR vectors to final approach course.

LOST COMMUNICATIONS
At PLAGE, turn left direct to FFU VORTAC and hold. Maintain 11000.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: BRYCE CANYON TRANSITION:
For non-GPS equipped aircraft FFU and PVU DMEs must be operational.
NOTE: MILFORD TRANSITION:
For non-GPS equipped aircraft BVL and PVU DMEs must be operational.



NOTE: Chart not to scale.

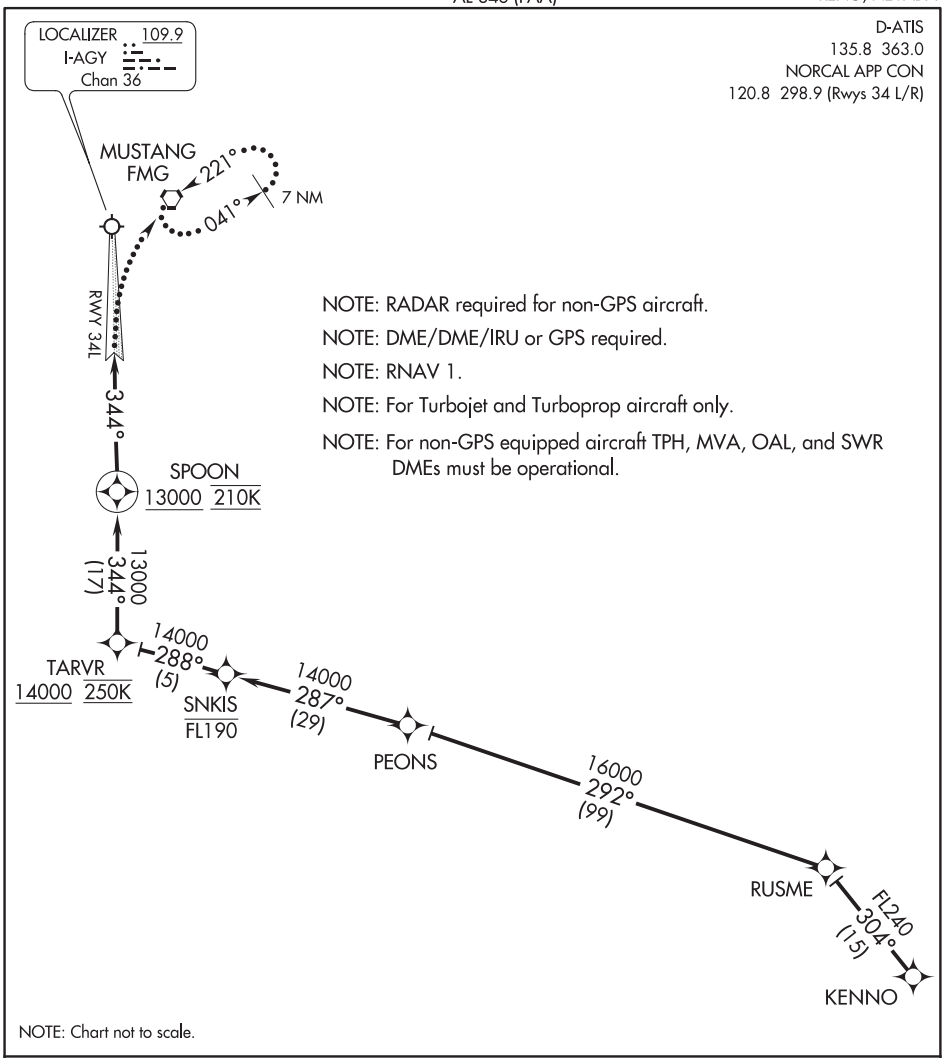
SW-4, 05 NOV 2020 to 31 DEC 2020

(KENNO.RUSME2) 17173

RUSME TWO ARRIVAL (RNAV)

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA



ARRIVAL ROUTE DESCRIPTION

From KENNO via 304° track to RUSME, then via 292° track to PEONS, then via 287° track to SNKIS, then via 288° track to TARVR, then via 344° track to SPOON.

RWY 34L: Intercept I-AGY localizer. Proceed inbound, expect ILS/Visual approach.
RWY 34R: On heading 344° expect RADAR vectors to final approach course.

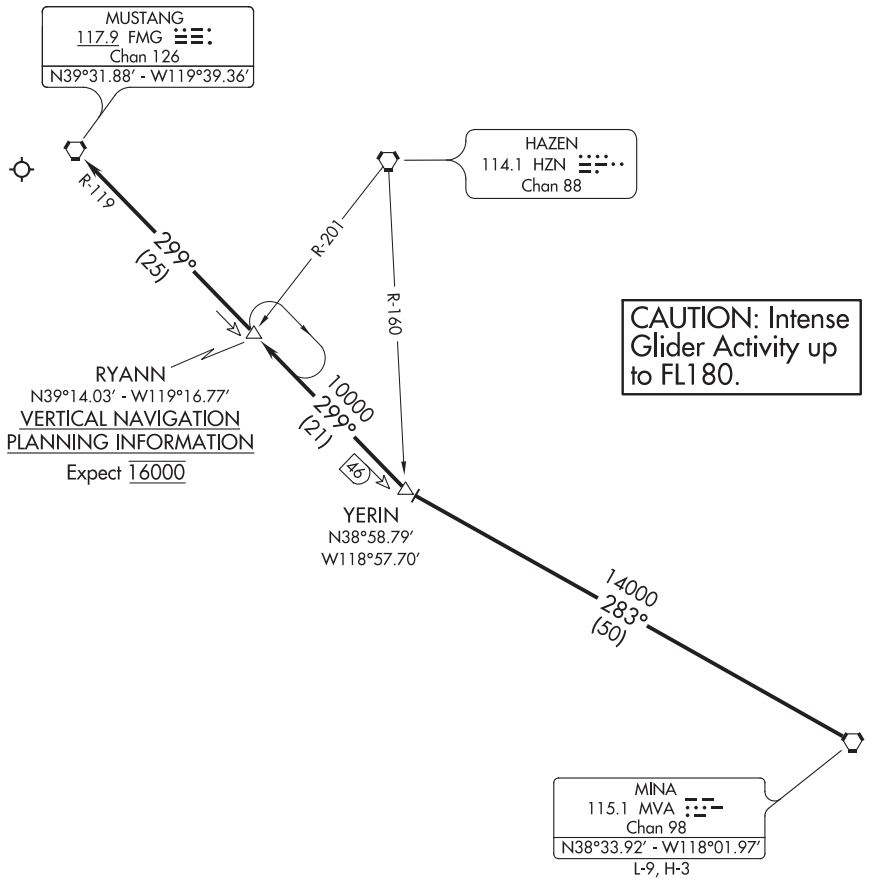
LOST COMMUNICATIONS: At SPOON, intercept and execute Rwy 34L ILS approach. If unable, turn right direct to FMG and hold, maintain 12000.

SW-4, 05 NOV 2020 to 31 DEC 2020

RUSME TWO ARRIVAL (RNAV)
(KENNO.RUSME2) 20OCT11

RENO, NEVADA
RENO/TAHOE INTL (RNO)

NORCAL APP CON
119.2 279.55
126.3 353.9
D-ATIS
135.8 363.0



NOTE: For Runway 16 only.

NOTE: RADAR Required.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

RUNWAY 16: From over MVA VORTAC via MVA R-283 to YERIN INT. Thence via FMG R-119 to FMG VORTAC. Expect RADAR vectors to Runway 16.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(SAC.SIER3) 17173

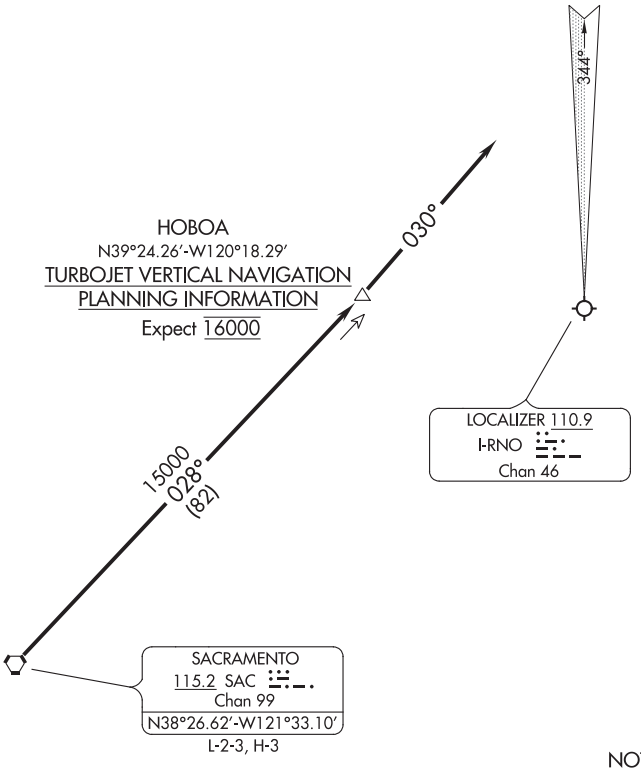
SIERRA THREE ARRIVAL

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

NORCAL APP CON
119.2 279.55
126.3 353.9
D-ATIS
135.8 363.0

CAUTION: Intense Glider Activity up to FL180.



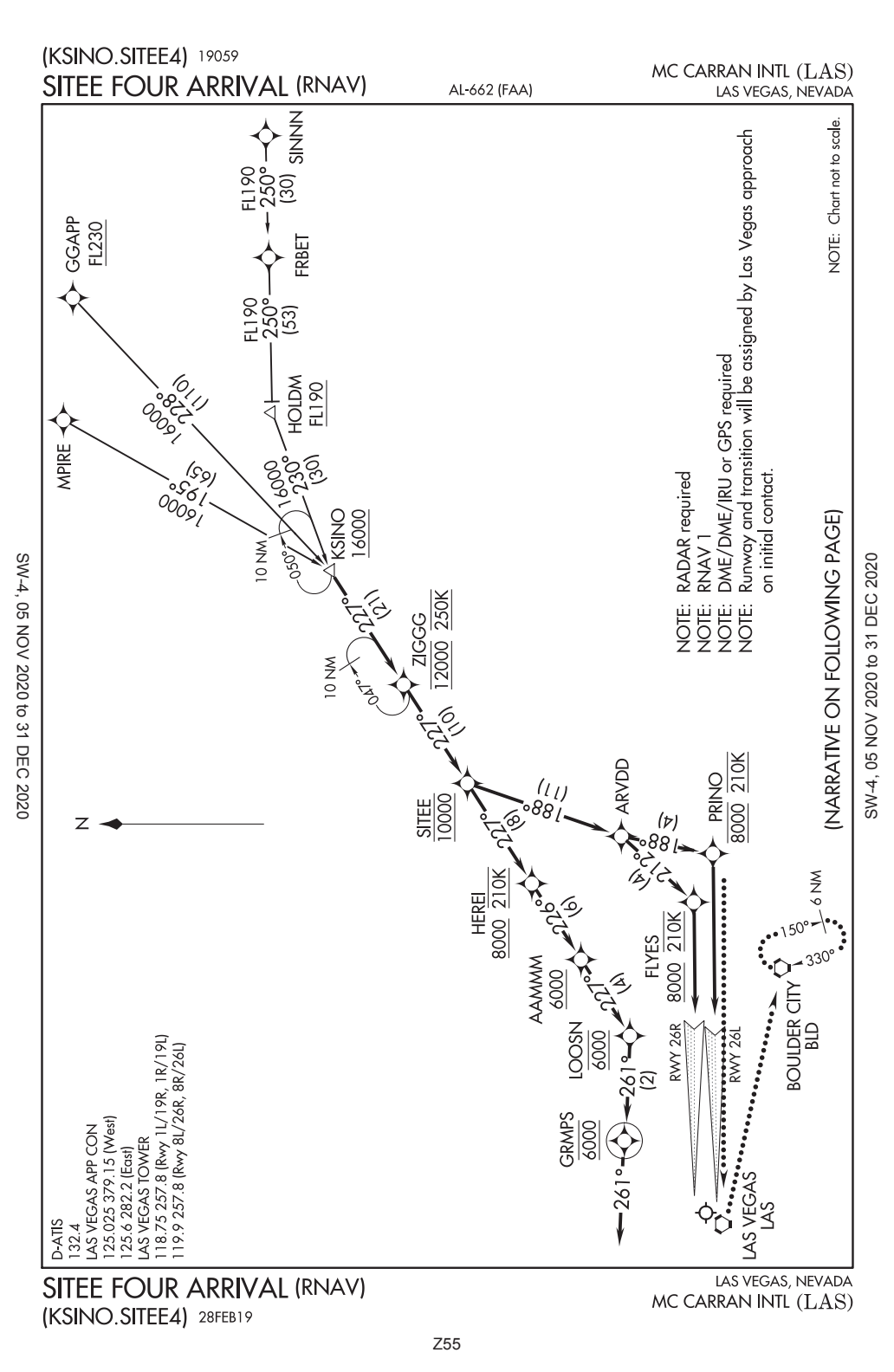
NOTE: RADAR required.
NOTE: DME required.
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From over SAC VORTAC via SAC R-028 to HOBOA INT/SAC 82 DME. Depart HOBOA heading 030° for vectors to final approach.

SW-4, 05 NOV 2020 to 31 DEC 2020

SIERRA THREE ARRIVAL
(SAC.SIER3) 11SEP97
RENO, NEVADA
RENO/TAHOE INTL (RNO)


GGAPP
FL230
MPIRE
SINNN
FL190
250°
(30)
FRBET
FL190
250°
(53)
HOLDM
FL190
16000
228°
(110)
16000
195°
(65)
16000
230°
(30)
10 NM
050°
KSINO
16000
227°
(21)
10 NM
047°
ZIGGG
12000 250K
227°
(10)
SITEE
10000
188°
(11)
ARVDD
227°
(8)
HEREI
8000 210K
227°
(6)
AAMMM
6000
227°
(4)
LOOSN
6000
261°
(2)
GRMPS
6000
261°
188°
(4)
212°
(4)
PRINO
8000 210K
FLYES
8000 210K
RWY 26R
RWY 26L
LAS VEGAS
LAS
BOULDER CITY
BLD
150°
330°
6 NM
N
D-ATIS
132.4
LAS VEGAS APP CON
125.025 379.15 (West)
125.6 282.2 (East)
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 8L/26R, 8R/26L)
NOTE: RADAR required
NOTE: RNAV 1
NOTE: DME/DME/IRU or GPS required
NOTE: Runway and transition will be assigned by Las Vegas approach on initial contact.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(KSINO.SITEE4) 19059

SITEE FOUR ARRIVAL (RNAV)

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

ARRIVAL ROUTE DESCRIPTION

GGAPP TRANSITION (GGAPP.SITEE4)
MPIRE TRANSITION (MPIRE.SITEE4)
SINNN TRANSITION (SINNN.SITEE4)

From KSINO on track 227° to cross ZIGGG at 12000 and at 250K, then on track 227° to cross SITEE at 10000.

LANDING RUNWAY 1L: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect RADAR vectors to visual approach to RWY 1L prior to LOOSN.

LANDING RUNWAY 1R: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect RADAR vectors to visual approach to RWY 1R prior to LOOSN.

LANDING RUNWAY 8L: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect RADAR vectors to visual approach to RWY 8L prior to LOOSN.

LANDING RUNWAY 8R: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect RADAR vectors to visual approach to RWY 8R prior to LOOSN.

LANDING RUNWAY 19L: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect visual approach to RWY 19L.

LANDING RUNWAY 19R: From SITEE on track 227° to cross HEREI at or above 8000 and at 210K, then on track 226° to cross AAMMM at or above 6000, then on track 227° to cross LOOSN at 6000, then on track 261° to cross GRMPS at 6000, then on track 261°. Expect visual approach to RWY 19R.

LANDING RUNWAY 26L: From SITEE on track 188° to ARVDD, then on track 188° to cross PRINO at 8000 and at 210K. Intercept ILS RWY 26L LOC. Expect ILS or visual approach to RWY 26L.

LANDING RUNWAY 26R: From SITEE on track 188° to ARVDD, then on track 212° to cross FLYES at or above 8000 and at 210K. Intercept ILS RWY 26R LOC. Expect ILS or visual approach to RWY 26R.

LOST COMMUNICATIONS
At PRINO, proceed on ILS RWY 26L approach, if unable, proceed direct to LAS VORTAC, then direct BLD VORTAC and hold, maintain 8000.

SW-4, 05 NOV 2020 to 31 DEC 2020

SKEES FIVE ARRIVAL (RNAV)

AL-365 (FAA)

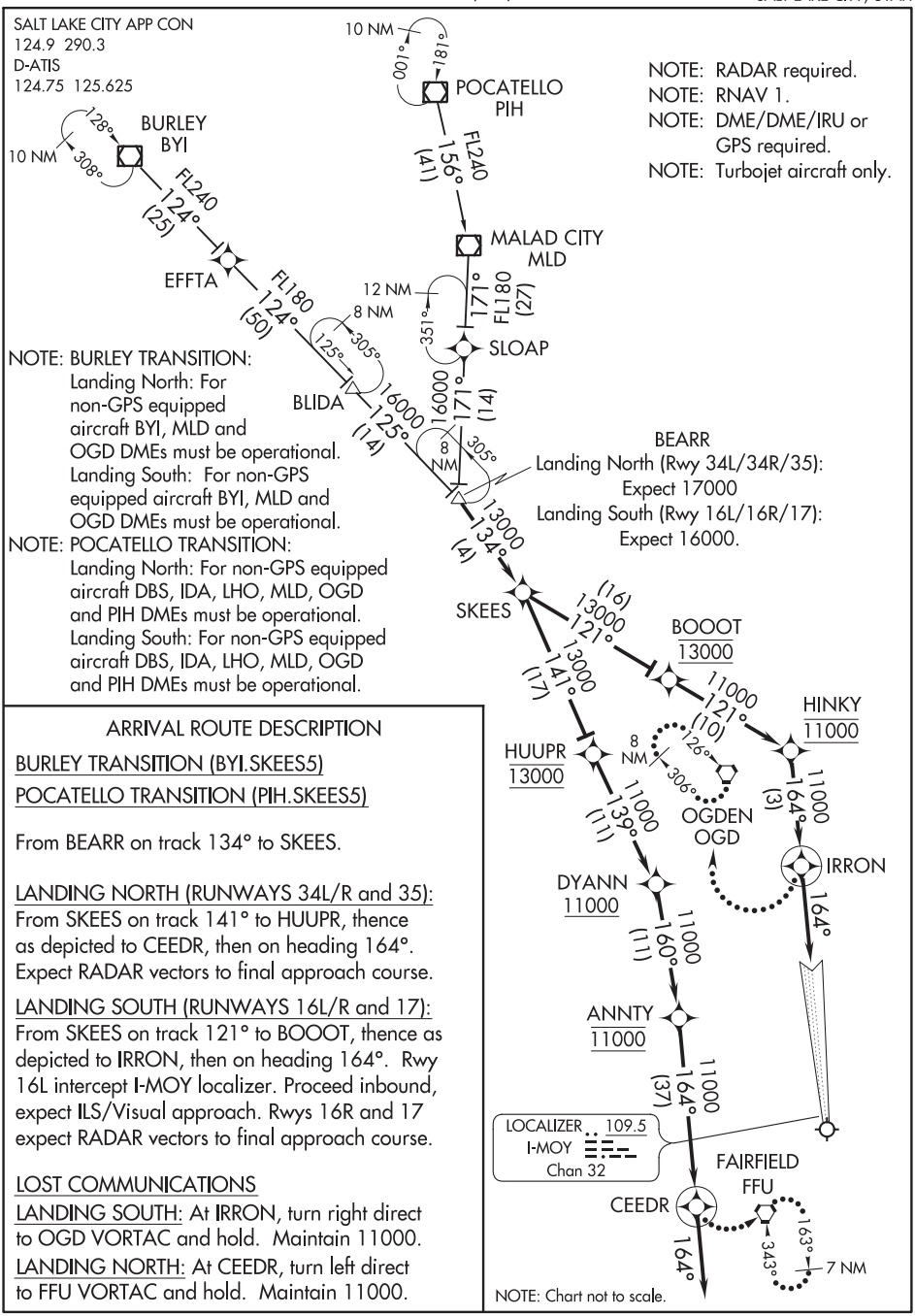
SALT LAKE CITY APP CON
124.9 290.3
D-ATIS
124.75 125.625

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

NOTE: BURLEY TRANSITION:
Landing North: For non-GPS equipped aircraft BYI, MLD and OGD DMEs must be operational.
Landing South: For non-GPS equipped aircraft BYI, MLD and OGD DMEs must be operational.

NOTE: POCATELLO TRANSITION:
Landing North: For non-GPS equipped aircraft DBS, IDA, LHO, MLD, OGD and PIH DMEs must be operational.
Landing South: For non-GPS equipped aircraft DBS, IDA, LHO, MLD, OGD and PIH DMEs must be operational.

BEARR
Landing North (Rwy 34L/34R/35): Expect 17000
Landing South (Rwy 16L/16R/17): Expect 16000.



ARRIVAL ROUTE DESCRIPTION

BURLEY TRANSITION (BYI.SKEES5)

POCATELLO TRANSITION (PIH.SKEES5)

From BEARR on track 134° to SKEES.

LANDING NORTH (RUNWAYS 34L/R and 35):
From SKEES on track 141° to HUUPR, thence as depicted to CEEDR, then on heading 164°. Expect RADAR vectors to final approach course.

LANDING SOUTH (RUNWAYS 16L/R and 17):
From SKEES on track 121° to BOOOT, thence as depicted to IRRON, then on heading 164°. Rwy 16L intercept I-MOY localizer. Proceed inbound, expect ILS/Visual approach. Rwys 16R and 17 expect RADAR vectors to final approach course.

LOST COMMUNICATIONS
LANDING SOUTH: At IRRON, turn right direct to OGD VORTAC and hold. Maintain 11000.
LANDING NORTH: At CEEDR, turn left direct to FFU VORTAC and hold. Maintain 11000.

(SPANE.SPANE7) 19283

SPANE SEVEN ARRIVAL

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)
SALT LAKE CITY, UTAH

ARRIVAL ROUTE DESCRIPTION

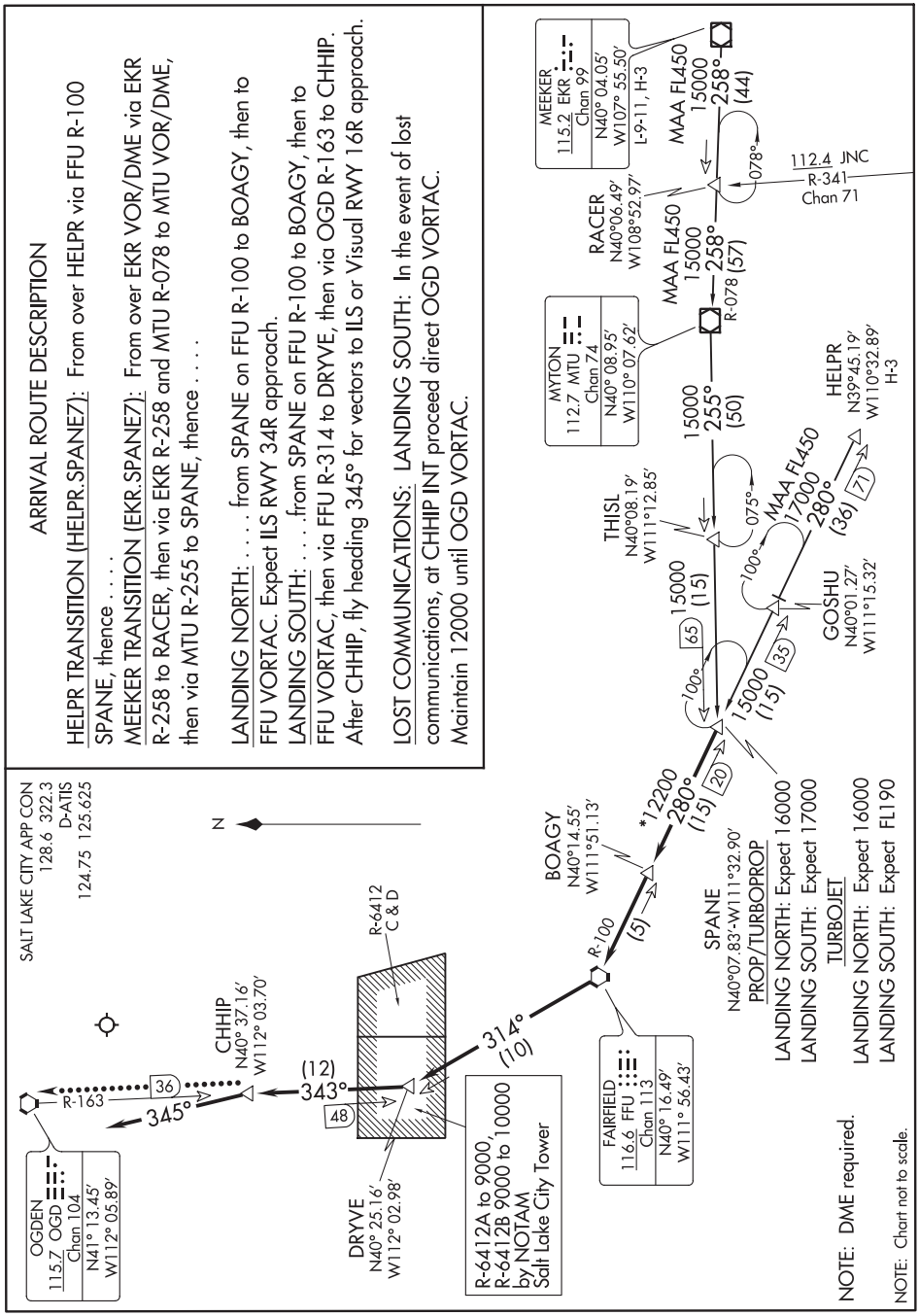
HELPR TRANSITION (HELPR.SPANE7): From over HELPR via FFU R-100 SPANE, thence . . . .

MEEKER TRANSITION (EKR.SPANE7): From over EKR VOR/DME via EKR R-258 to RACER, then via EKR R-258 and MTU R-078 to MTU VOR/DME, then via MTU R-255 to SPANE, thence . . . .

LANDING NORTH: . . . . from SPANE on FFU R-100 to BOAGY, then to FFU VORTAC. Expect ILS RWY 34R approach.

LANDING SOUTH: . . . .from SPANE on FFU R-100 to BOAGY, then to FFU VORTAC, then via FFU R-314 to DRYVE, then via OGD R-163 to CHHIP. After CHHIP, fly heading 345° for vectors to ILS or Visual RWY 16R approach.

LOST COMMUNICATIONS: LANDING SOUTH: In the event of lost communications, at CHHIP INT proceed direct OGD VORTAC. Maintain 12000 until OGD VORTAC.



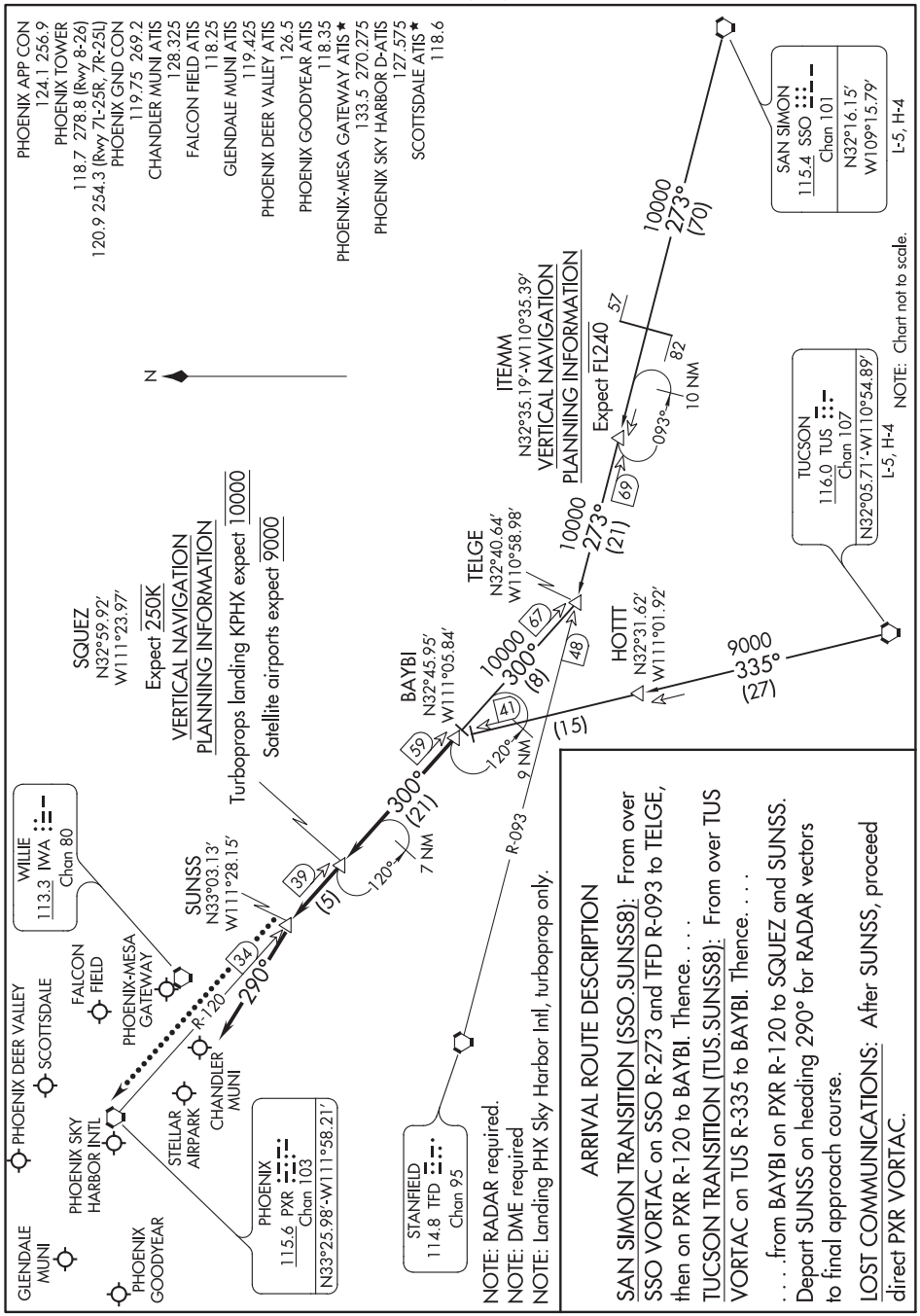
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SPANE SEVEN ARRIVAL
(SPANE.SPANE7) 17AUG17

SALT LAKE CITY, UTAH
SALT LAKE CITY INTL (SLC)

SUNSS EIGHT ARRIVAL



SW-4, 05 NOV 2020 to 31 DEC 2020

SUNSS EIGHT ARRIVAL

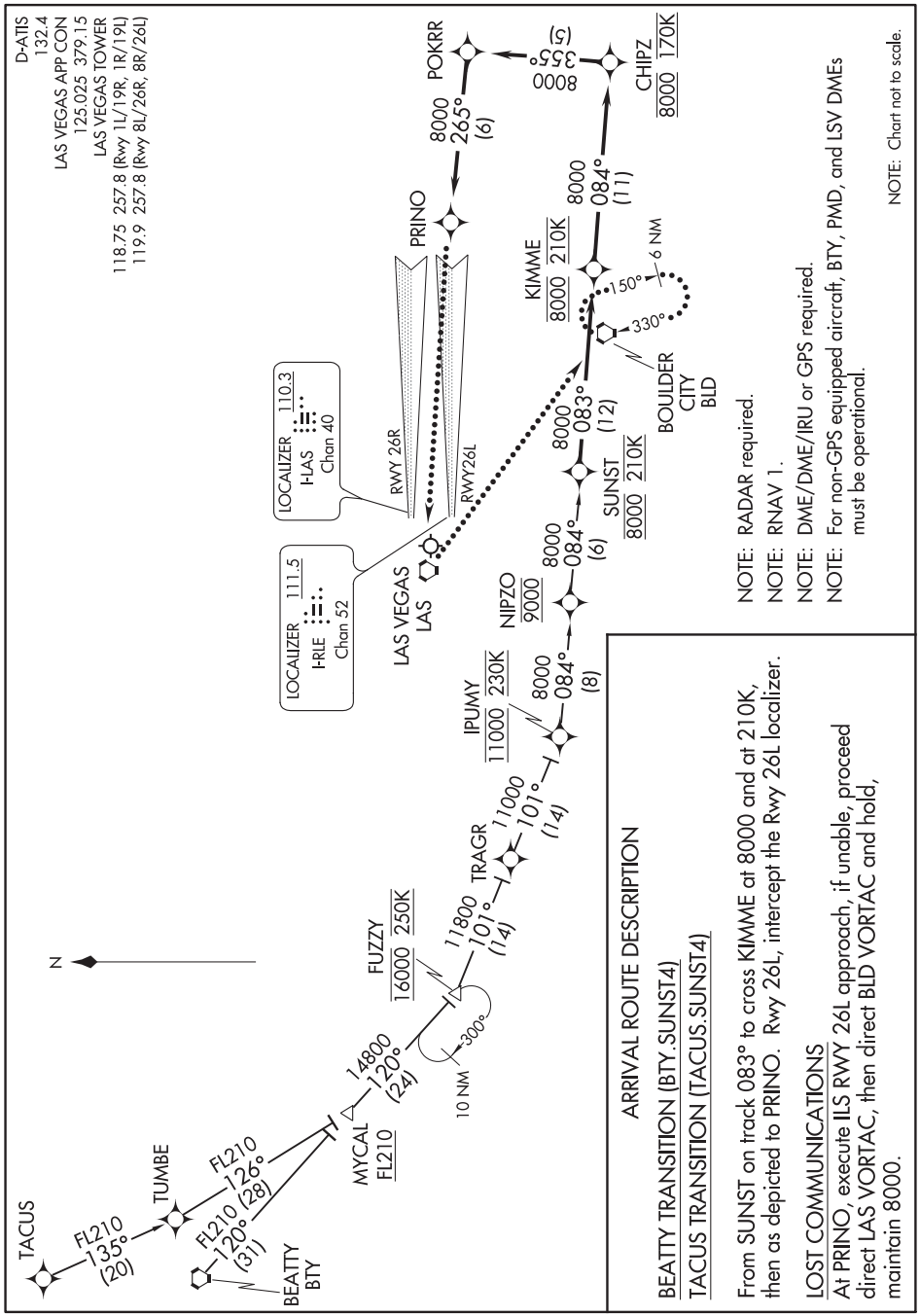
PHOENIX, ARIZONA

(SUNST.SUNST4) 18088

SUNST FOUR ARRIVAL (RNAV)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

AL-662 (FAA)



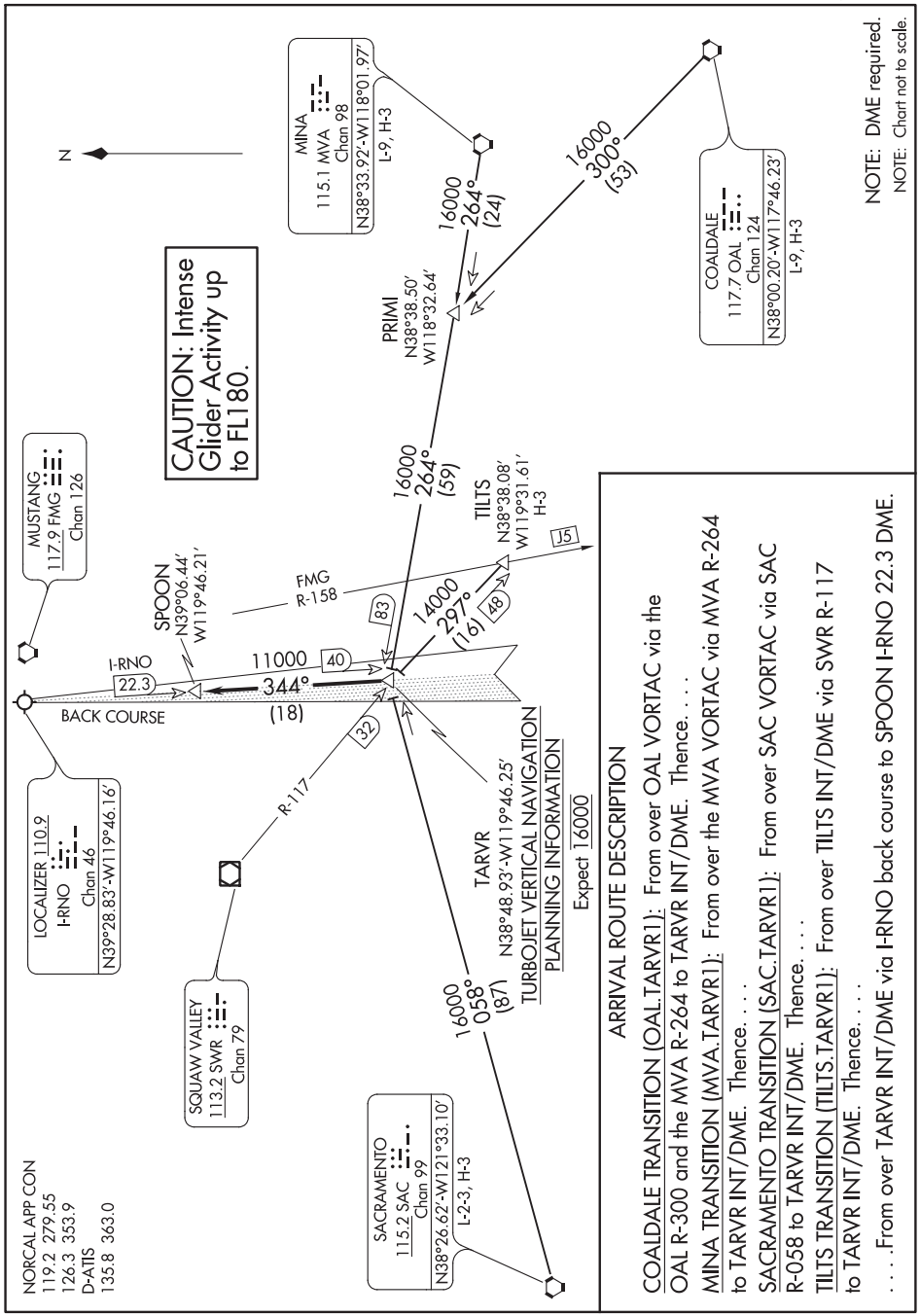
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SUNST FOUR ARRIVAL (RNAV)

(SUNST.SUNST4) 17AUG17

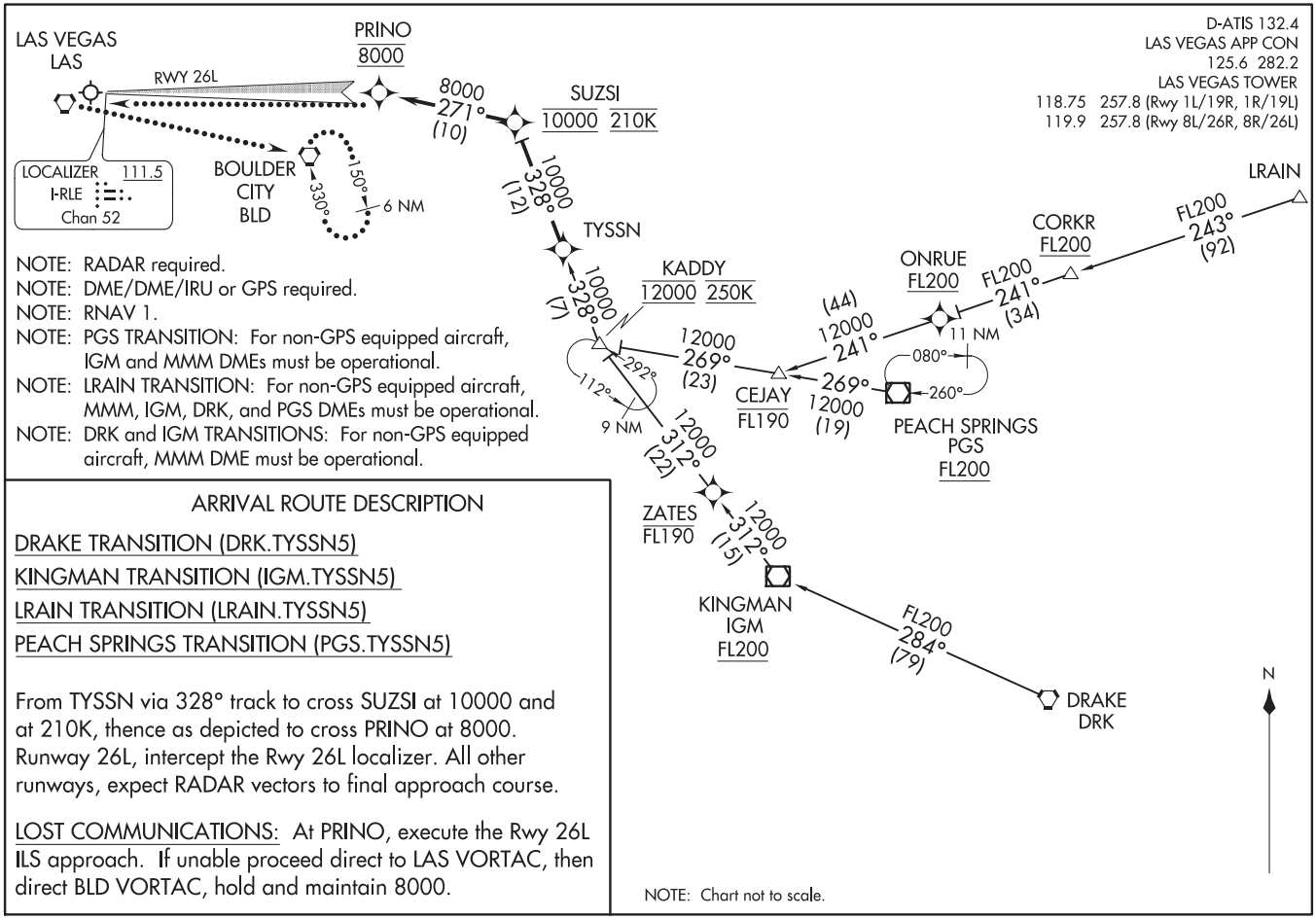
LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)


N
MINA
115.1 MVA
Chan 98
N38°33.92'-W118°01.97'
L-9, H-3
16000
264°
(24)
16000
300°
(53)
COALDALE
117.7 OAL
Chan 124
N38°00.20'-W117°46.23'
L-9, H-3
NOTE: DME required.
NOTE: Chart not to scale.
CAUTION: Intense Glider Activity up to FL180.
PRIMI
N38°38.50'
W118°32.64'
16000
264°
(59)
TILTS
N38°38.08'
W119°31.61'
H-3
J5
MUSTANG
117.9 FMG
Chan 126
SPOON
N39°06.44'
W119°46.21'
FMG
R-158
83
48
14000
297°
(16)
I-RNO
22.3
11000
40
344°
(18)
BACK COURSE
32
R-117
LOCALIZER 110.9
I-RNO
Chan 46
N39°28.83'-W119°46.16'
TARVR
N38°48.93'-W119°46.25'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect 16000
16000
058°
(87)
SQUAW VALLEY
113.2 SWR
Chan 79
SACRAMENTO
115.2 SAC
Chan 99
N38°26.62'-W121°33.10'
L-2-3, H-3
NORCAL APP CON
119.2 279.55
126.3 353.9
D-ATIS
135.8 363.0
ARRIVAL ROUTE DESCRIPTION
COALDALE TRANSITION (OAL.TARVR1): From over OAL VORTAC via the OAL R-300 and the MVA R-264 to TARVR INT/DME. Thence. . . .
MINA TRANSITION (MVA.TARVR1): From over the MVA VORTAC via MVA R-264 to TARVR INT/DME. Thence. . . .
SACRAMENTO TRANSITION (SAC.TARVR1): From over SAC VORTAC via SAC R-058 to TARVR INT/DME. Thence. . . .
TILTS TRANSITION (TILTS.TARVR1): From over TILTS INT/DME via SWR R-117 to TARVR INT/DME. Thence. . . .
. . . .From over TARVR INT/DME via I-RNO back course to SPOON I-RNO 22.3 DME.

TYSSN FIVE ARRIVAL (RNAV)

(TYSSN.TYSSN5) 17AUG17

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: PGS TRANSITION: For non-GPS equipped aircraft, IGM and MMM DMEs must be operational.
NOTE: LRAIN TRANSITION: For non-GPS equipped aircraft, MMM, IGM, DRK, and PGS DMEs must be operational.
NOTE: DRK and IGM TRANSITIONS: For non-GPS equipped aircraft, MMM DME must be operational.

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.TYSSN5)

KINGMAN TRANSITION (IGM.TYSSN5)

LRAIN TRANSITION (LRAIN.TYSSN5)

PEACH SPRINGS TRANSITION (PGS.TYSSN5)

From TYSSN via 328° track to cross SUZSI at 10000 and at 210K, thence as depicted to cross PRINO at 8000. Runway 26L, intercept the Rwy 26L localizer. All other runways, expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: At PRINO, execute the Rwy 26L ILS approach. If unable proceed direct to LAS VORTAC, then direct BLD VORTAC, hold and maintain 8000.

NOTE: Chart not to scale.

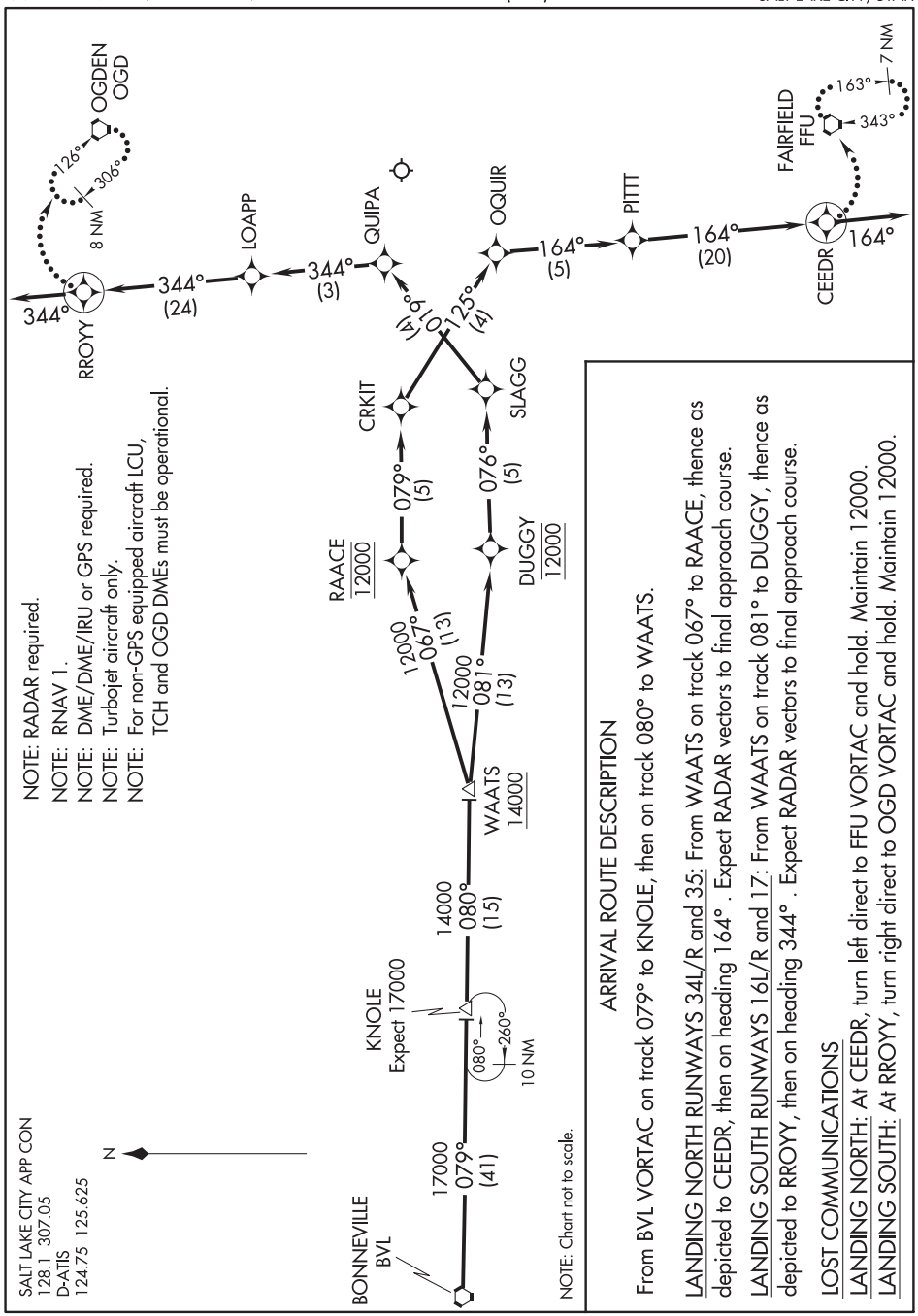
(TYSSN.TYSSN5) 18088

TYSSN FIVE ARRIVAL (RNAV)

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

Z62



ARRIVAL ROUTE DESCRIPTION

From BVL VORTAC on track 079° to KNOLE, then on track 080° to WAATS.

LANDING NORTH RUNWAYS 34L/R and 35: From WAATS on track 067° to RAACE, thence as depicted to CEEDR, then on heading 164°. Expect RADAR vectors to final approach course.

LANDING SOUTH RUNWAYS 16L/R and 17: From WAATS on track 081° to DUGGY, thence as depicted to RROYY, then on heading 344°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING NORTH: At CEEDR, turn left direct to FFU VORTAC and hold. Maintain 12000.
LANDING SOUTH: At RROYY, turn right direct to OGD VORTAC and hold. Maintain 12000.

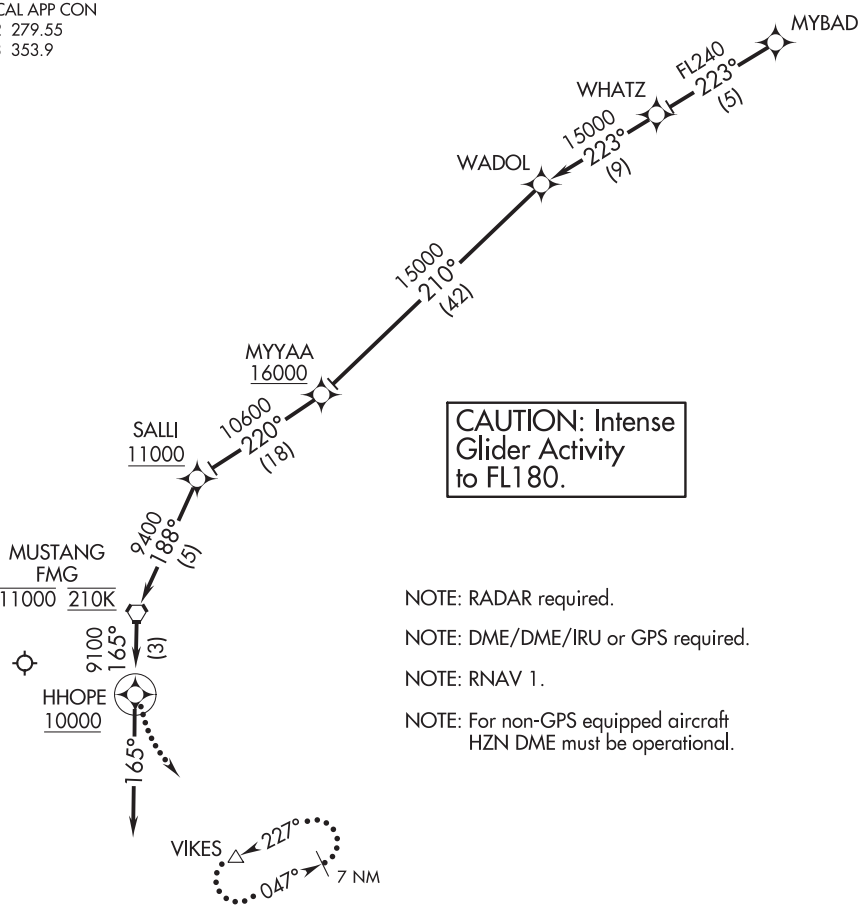
(MYBAD.WADOL2) 17173

WADOL TWO ARRIVAL (RNAV)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

AL-346 (FAA)

D-ATIS
135.8 363.0
RENO TOWER
118.7 257.8
NORCAL APP CON
119.2 279.55
126.3 353.9



CAUTION: Intense Glider Activity to FL180.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: For non-GPS equipped aircraft HZN DME must be operational.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From MYBAD on track 223° to WHATZ, then as depicted to cross HHOPE at or above 10000, then on heading 165°. Rwy 34L/34R expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

At HHOPE, climbing left turn to 12000 direct to VIKES and hold.

SW-4, 05 NOV 2020 to 31 DEC 2020

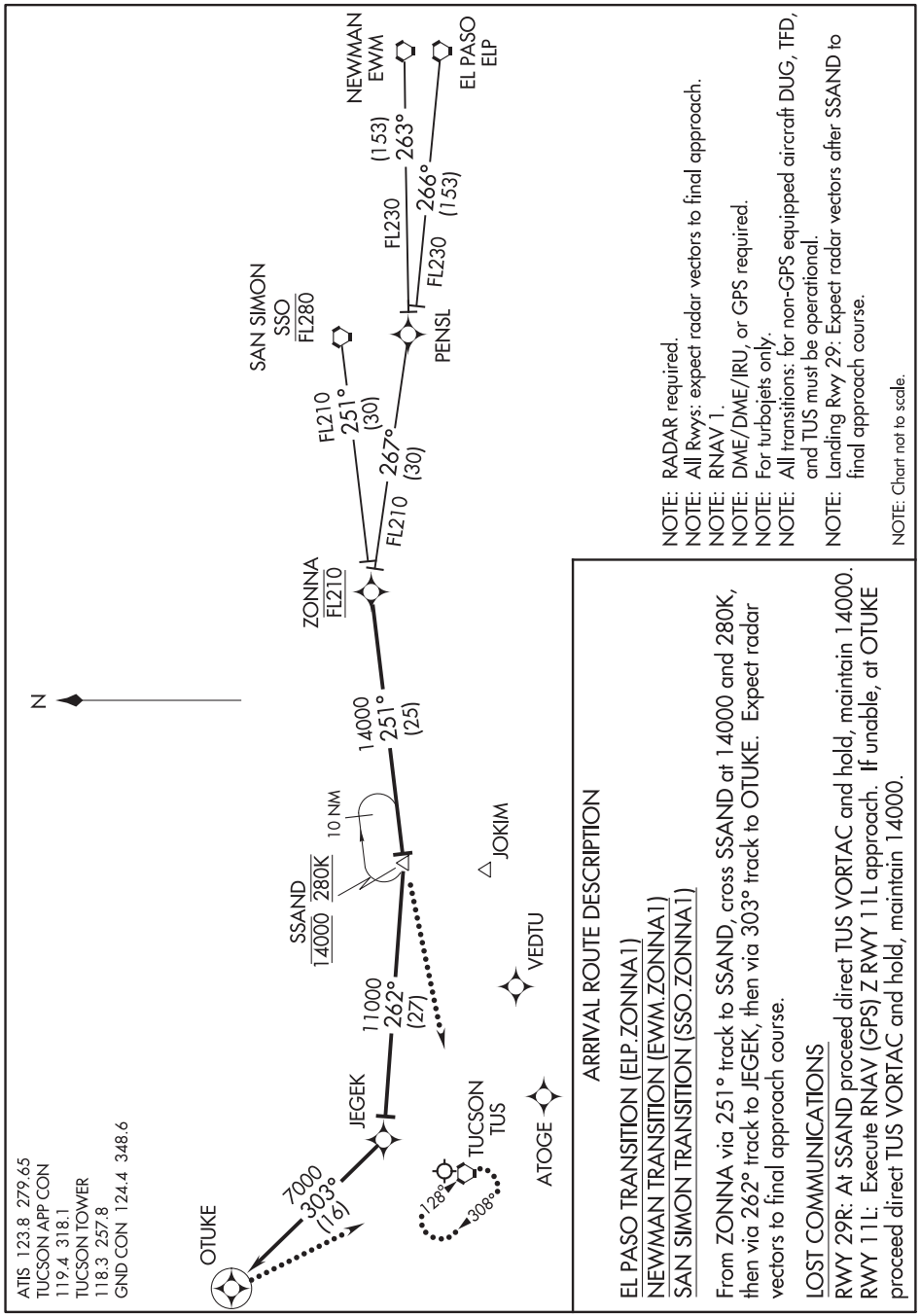
WADOL TWO ARRIVAL (RNAV)
(MYBAD.WADOL2) 20OCT11

RENO, NEVADA
RENO/TAHOE INTL (RNO)

ZONNA ONE ARRIVAL (RNAV)

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



NOTE: RADAR required.
NOTE: All Rwys: expect radar vectors to final approach.
NOTE: RNAV 1.
NOTE: DME/DME/IRU, or GPS required.
NOTE: For turbojets only.
NOTE: All transitions: for non-GPS equipped aircraft DUG, TFD, and TUS must be operational.
NOTE: Landing Rwy 29: Expect radar vectors after SSAND to final approach course.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

EL PASO TRANSITION (ELP.ZONNA1)
NEWMAN TRANSITION (EWM.ZONNA1)
SAN SIMON TRANSITION (SSO.ZONNA1)

From ZONNA via 251° track to SSAND, cross SSAND at 14000 and 280K, then via 262° track to JEGEK, then via 303° track to OTUKE. Expect radar vectors to final approach course.

LOST COMMUNICATIONS

RWY 29R: At SSAND proceed direct TUS VORTAC and hold, maintain 14000.
RWY 11L: Execute RNAV (GPS) Z RWY 11L approach. If unable, at OTUKE proceed direct TUS VORTAC and hold, maintain 14000.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ZONNA ONE ARRIVAL (RNAV)

TUCSON, ARIZONA
TUCSON INTL (TUS)

INTENTIONALLY

LEFT

BLANK

SW-4, 05 NOV 2020 to 31 DEC 2020

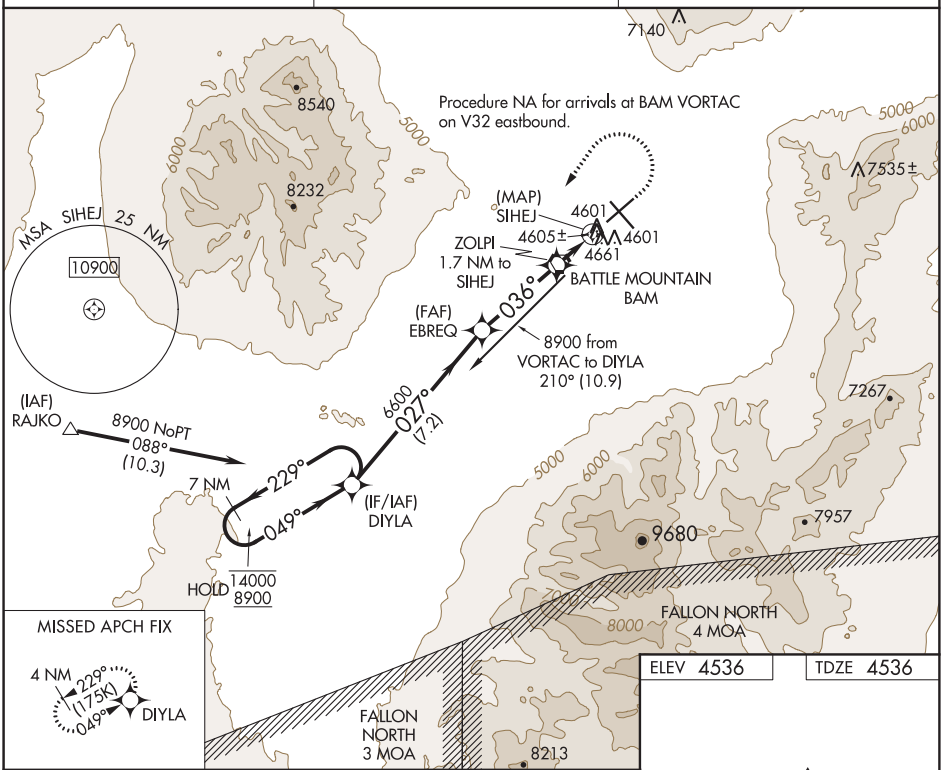
WAAS CH **90143** **W04A**	APP CRS **036°**	Rwy ldg **7300** TDZE **4536** Apt Elev **4536**

RNAV (GPS) RWY 4
BATTLE MOUNTAIN (BAM)

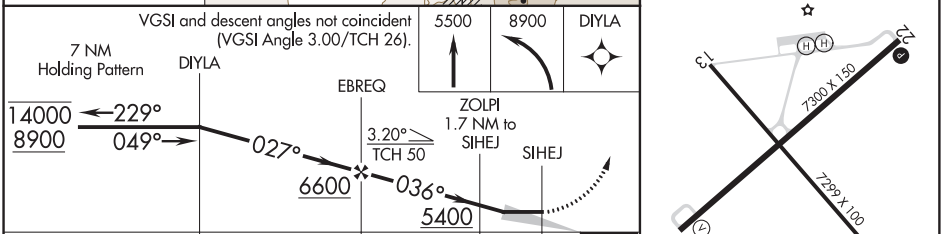
RNP APCH.

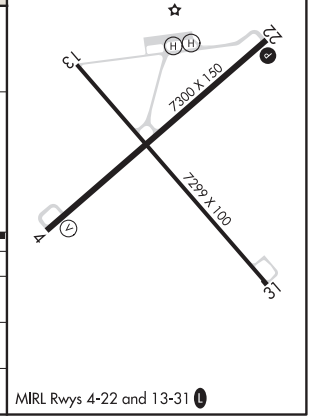
MISSED APPROACH: (Do not exceed 175K until DIYLA) Climb to 5500 then climbing left turn to 8900 direct DIYLA and hold, do not exceed 230K when continuing climb-in-hold to 8900.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
119.45	**132.25 388.35**	**122.8** (CTAF) L



ELEV 4536	TDZE 4536





MIRL Rwys 4-22 and 13-31 L

CATEGORY	A	B	C	D
LP MDA	4860-1	324 (400-1)	NA	
LNAV MDA	5020-1	484 (500-1)	NA	
C CIRCLING	5020-1	484 (500-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

BATTLE MOUNTAIN, NEVADA | AL-534 (FAA) | 18312

WAAS CH 82741 W22A	APP CRS 216°	Rwy ldg 7300 TDZE 4533 Apt Elev 4536

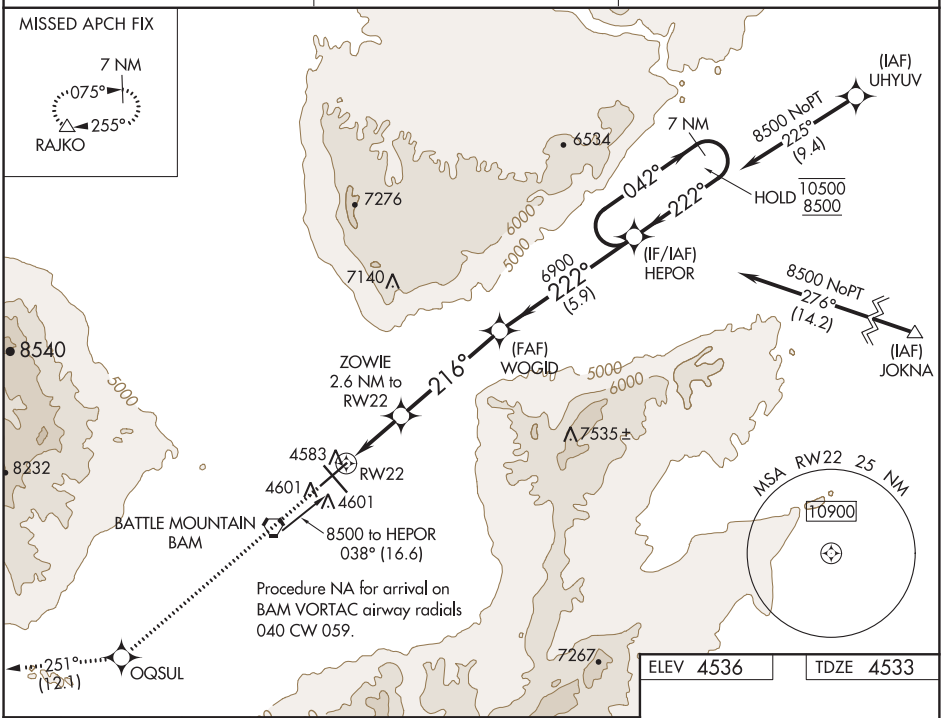
RNAV (GPS) RWY 22
BATTLE MOUNTAIN (BAM)

RNP APCH.

Baro-VNAV NA.

MISSED APPROACH: Climb to 11900 direct OQSUL and track 251° to RAJKO and hold, continue climb-in-hold to 11900.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
119.45	132.25 388.35	122.8 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020

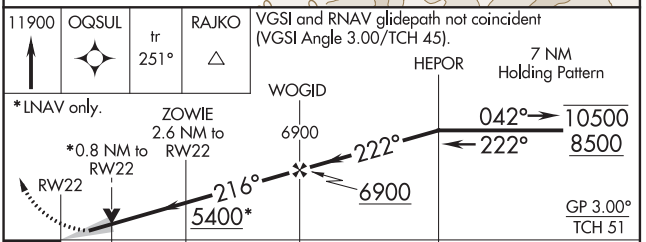
SW-4, 05 NOV 2020 to 31 DEC 2020

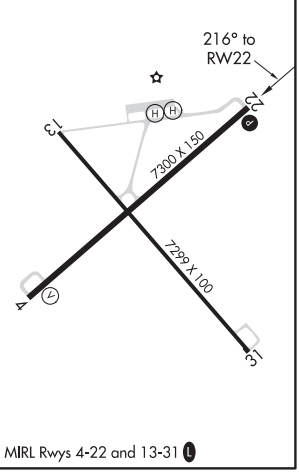
ELEV 4536	TDZE 4533

11900	OQSUL	tr 251°	RAJKO

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 45).

*LNAV only.





MIRL Rwys 4-22 and 13-31 L

CATEGORY	A	B	C	D
LPV DA	4753-1 220 (300-1)			
LNAV/VNAV DA	4808-1 275 (300-1)			
LNAV MDA	4980-1 447 (500-1)		4980-1⅜ 447 (500-1⅜)	
C CIRCLING	4980-1 444 (500-1)	5000-1 464 (500-1)	5000-1½ 464 (500-1½)	5460-3 924 (1000-3)

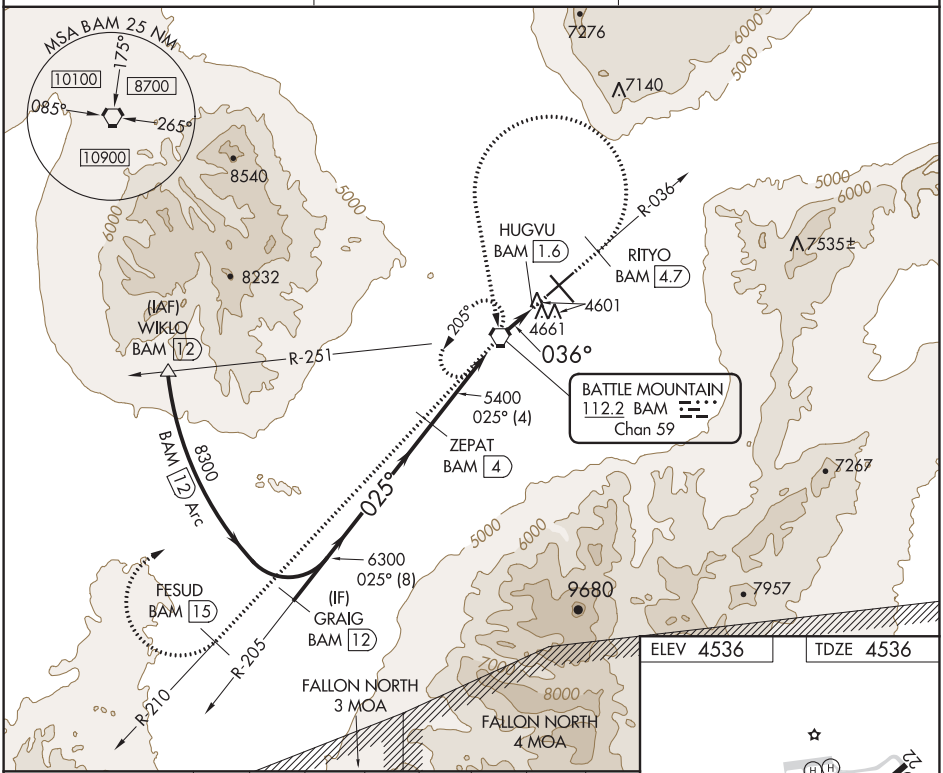
VOR RWY 4
BATTLE MOUNTAIN (BAM)

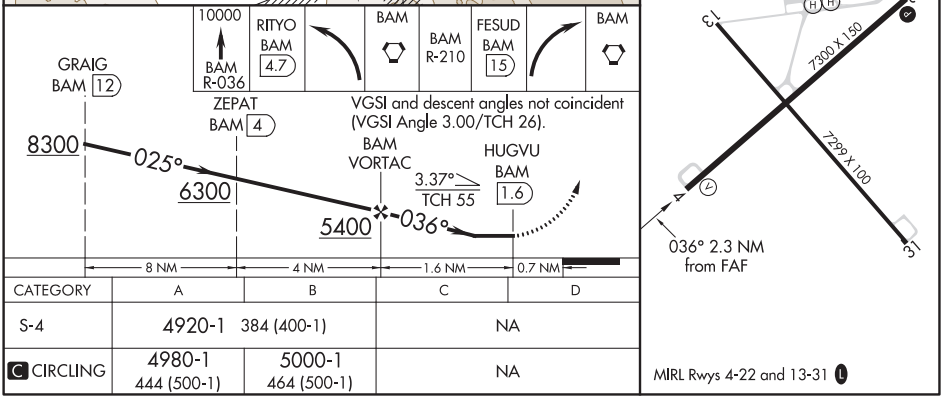
VORTAC BAM 112.2 Chan 59	APP CRS 036°	Rwy ldg 7300 TDZE 4536 Apt Elev 4536

DME required.

MISSED APPROACH: Climb to 10000 on BAM VORTAC R-036 to RITYO/BAM VORTAC 4.7 DME and left turn direct BAM VORTAC and on BAM VORTAC R-210 to FESUD/BAM 15 DME and right turn direct BAM VORTAC and hold.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
119.45	132.25 388.35	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-4	4920-1 384 (400-1)		NA	
C CIRCLING	4980-1 444 (500-1)	5000-1 464 (500-1)	NA	

MIRL Rwys 4-22 and 13-31 L

SW-4, 05 NOV 2020 to 31 DEC 2020

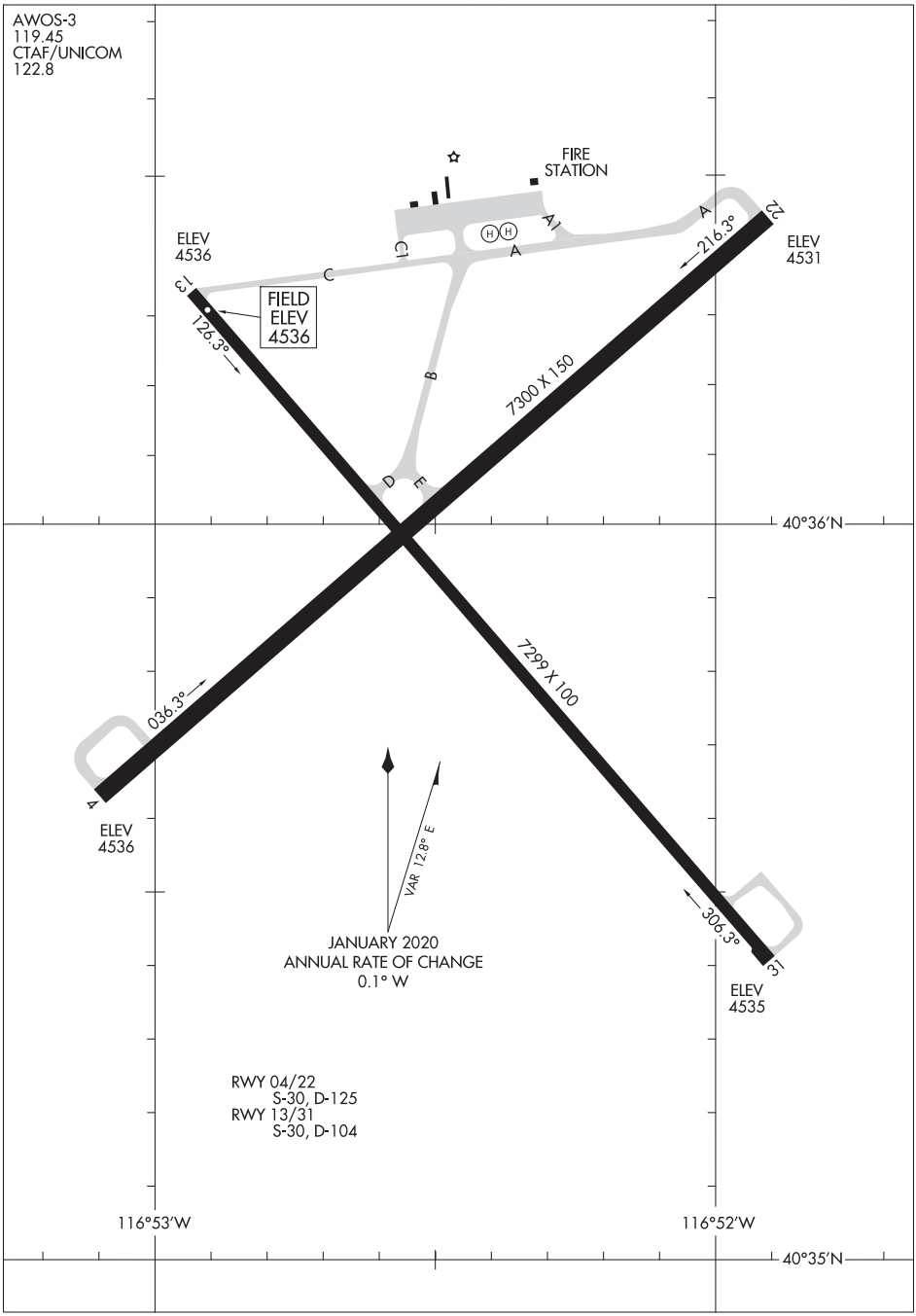
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-534 (FAA)

BATTLE MOUNTAIN (BAM)
BATTLE MOUNTAIN, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
BATTLE MOUNTAIN, NEVADA
BATTLE MOUNTAIN (BAM)

APP CRS	Rwy ldg	N/A
067°	TDZE	N/A
	Apt Elev	5863

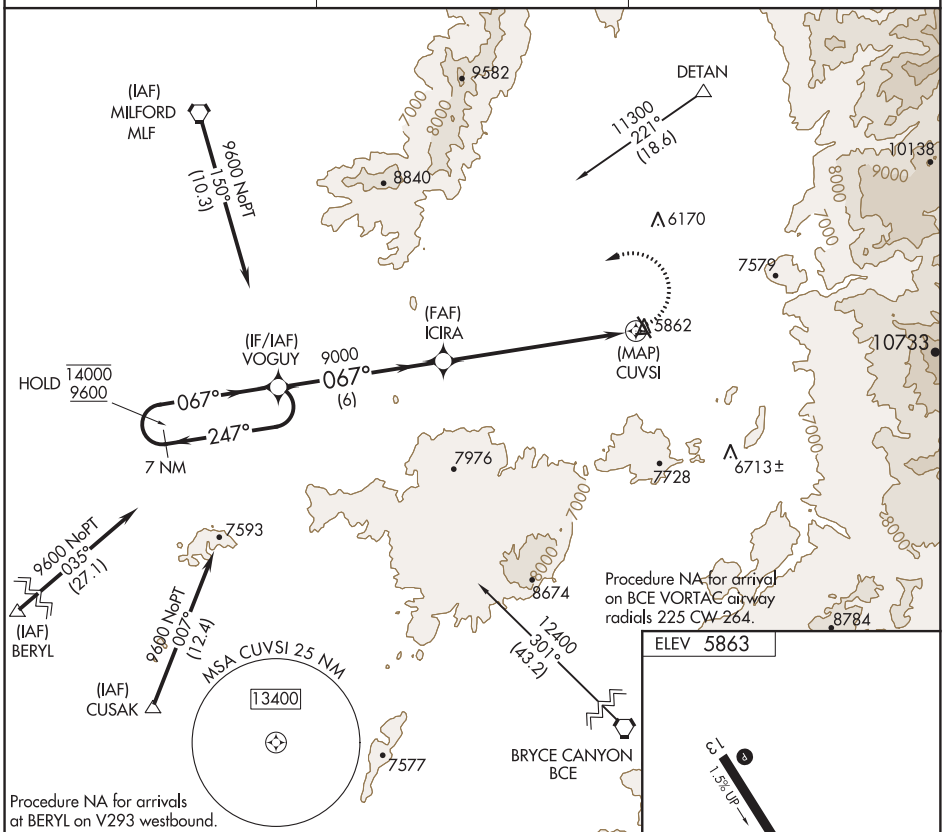
RNAV (GPS)-A
BEAVER MUNI (U52)

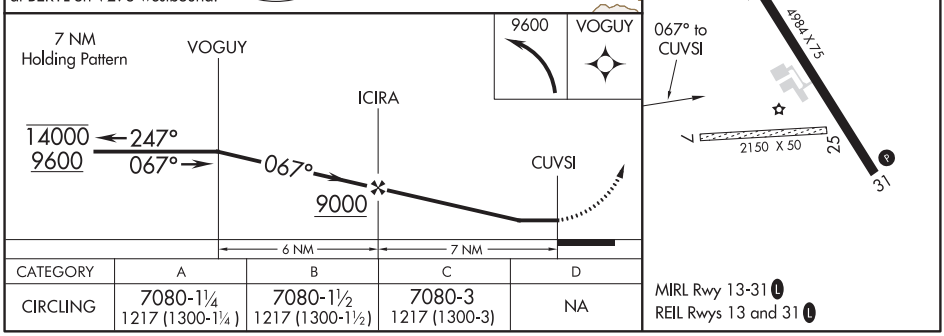
RNP APCH.

Circling Rwy 7, 25, 31 NA at night.

MISSED APPROACH: Climbing left turn to 9600 direct VOGUY and hold.

AWOS-3	SALT LAKE CITY CENTER	CTAF
119.925	125.575 379.275	122.9 L





CATEGORY	A	B	C	D
CIRCLING	7080-1¼ 1217 (1300-1¼)	7080-1½ 1217 (1300-1½)	7080-3 1217 (1300-3)	NA

MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

BLANDING, UTAH

AL-5667 (FAA)

20086

RNAV (GPS) RWY 35
BLANDING MUNI (BDG)

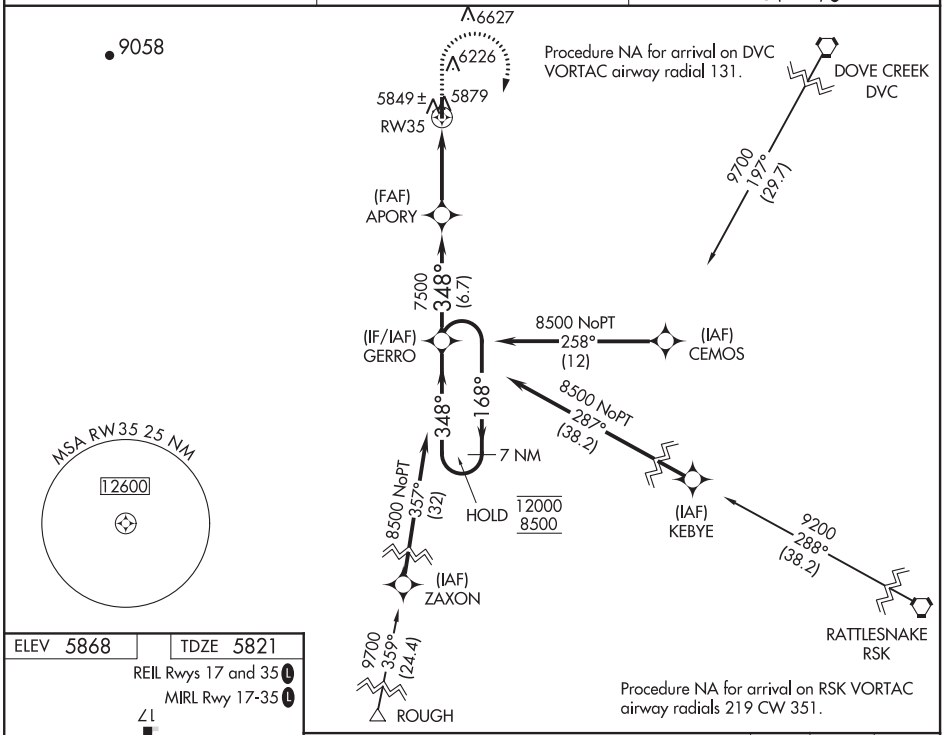
WAAS CH 63024 W35A	APP CRS 348°	Rwy ldg 5781 TDZE 5821 Apt Elev 5868

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C or above 54°C.

MISSED APPROACH: (Do not exceed 165K until GERRO) Climb to 6300 then climbing right turn to 8500 direct GERRO and hold.

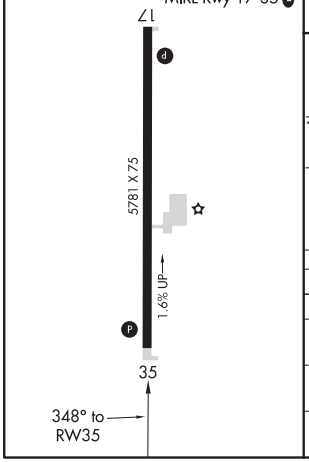
AWOS-2	DENVER CENTER	UNICOM
127.75	127.55 343.95	122.8 (CTAF) L

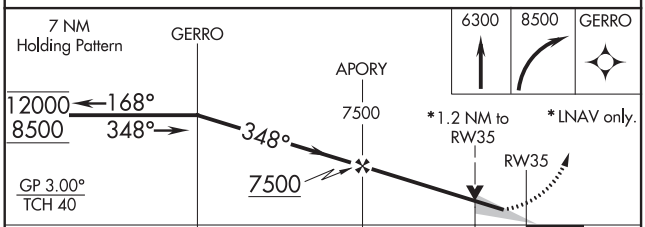


ELEV 5868	TDZE 5821

REIL Rwys 17 and 35 L

MIRL Rwy 17-35 L





CATEGORY	A	B	C	D
LPV DA	6071-1 250 (300-1)			NA
LNAV/VNAV DA	6077-1 256 (300-1)			NA
LNAV MDA	6200-1 379 (400-1)		6200-1¼ 379 (400-1¼)	NA
CIRCLING	6440-1 572 (600-1)		6460-1½ 592 (600-1½)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 77643 W27A	APP CRS 289°	Rwy ldg 4803 TDZE 2138 Apt Elev 2203

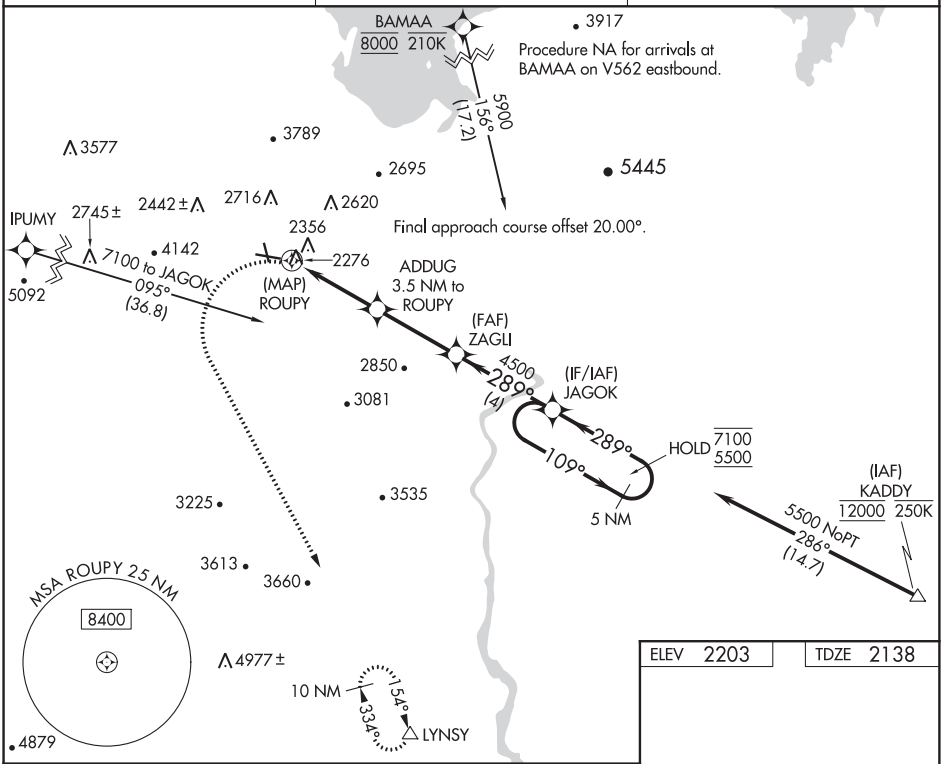
RNAV (GPS) RWY 27
BOULDER CITY MUNI (BVU)

RNP APCH.

Procedure NA at night.
Rwy 27 helicopter visibility reduction below 1 SM NA.

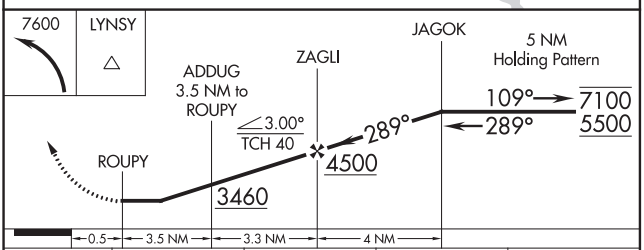
MISSED APPROACH: Climbing left turn to 7600 direct LYNSY and hold, continue climb-in-hold to 7600.

AWOS-3	LAS VEGAS APP CON	UNICOM
118.475	118.4 307.25	122.7 (CTAF) L

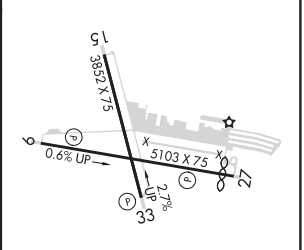


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



ELEV 2203	TDZE 2138



CATEGORY	A	B	C	D
LP MDA	2640-1 502 (500-1)		2640-1⅜ 502 (500-1⅜)	NA
LNAV MDA	2940-1 802 (800-1)	2940-1¼ 802 (800-1¼)	2940-2½ 802 (800-2½)	NA
C CIRCLING	2980-1¼ 777 (800-1¼)	3360-1½ 1157 (1200-1½)	4000-3 1797 (1800-3)	NA

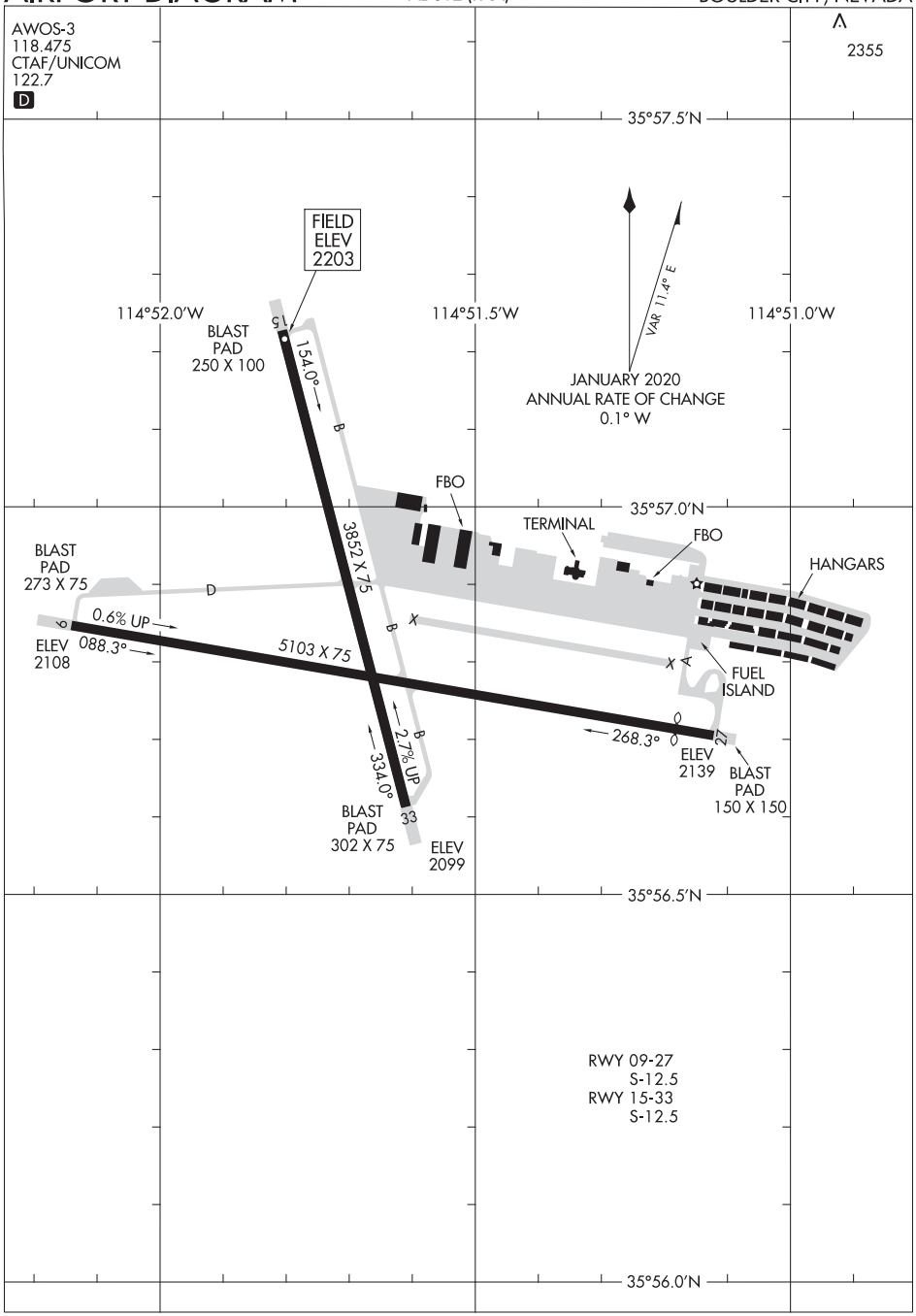
MIRL Rwys 9-27 and 15-33 L
REIL Rwys 9, 15, 27 and 33

20086

AIRPORT DIAGRAM

AL-612 (FAA)

BOULDER CITY MUNI (BVU)
BOULDER CITY, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
BOULDER CITY, NEVADA
BOULDER CITY MUNI (BVU)

WAAS CH 50426 W35A	APP CRS 358°	Rwy ldg 8900 TDZE 4230 Apt Elev 4230

RNAV (GPS) RWY 35

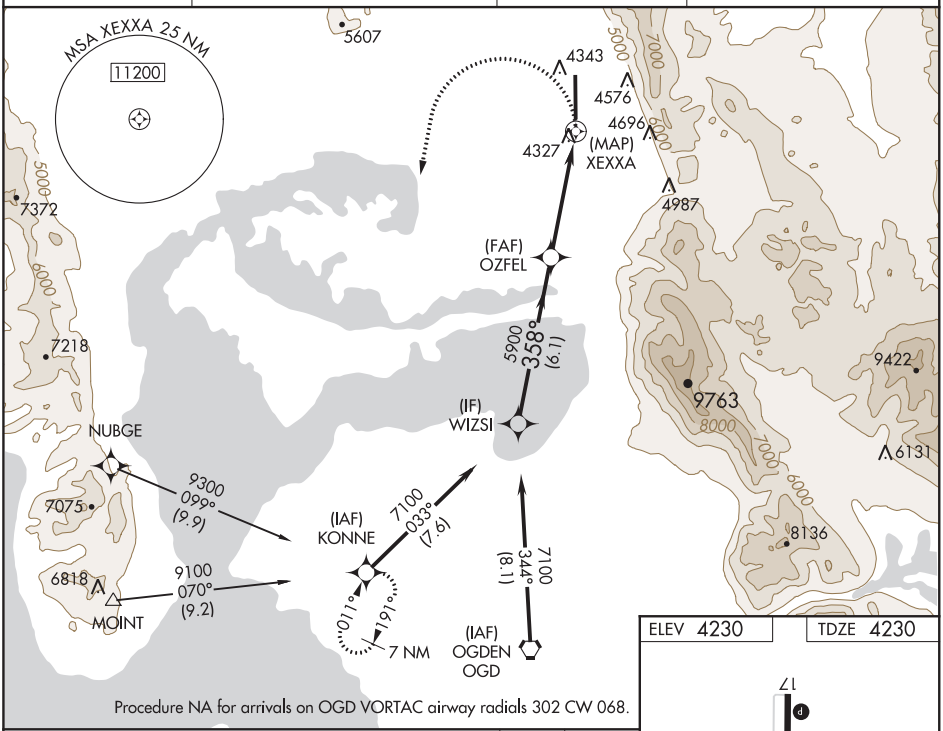
BRIGHAM CITY RGNL (BMC)

When local altimeter setting not received, use Ogden altimeter setting and increase all MDA 100 feet, increase LP Cat C visibility ¼ mile, increase LNAV Cat B visibility ¼ mile, and Cat C visibility ⅝ mile, increase Circling Cat B visibility ¼ mile, and Cat C visibility ½ mile. DME/DME RNP-0.3 NA. VDP NA with Ogden altimeter setting. Rwy 35 helicopter visibility reduction below ¾ SM NA.

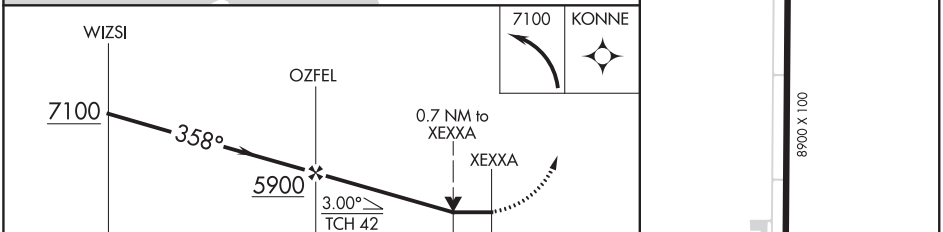
NA

MISSED APPROACH: Climbing left turn to 7100 direct KONNE and hold.

AWOS-3	SALT LAKE CITY APP CON	CLNC DEL	UNICOM
135.075	121.1 319.25	126.0	123.05 (CTAF) L

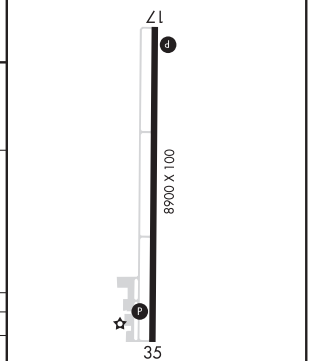


Procedure NA for arrivals on OGD VORTAC airway radials 302 CW 068.



CATEGORY	A	B	C	D
LP MDA	4660-1 430 (500-1)		4660-1¼ 430 (500-1¼)	NA
LNAV MDA	4900-1 670 (700-1)		4900-1⅞ 670 (700-1⅞)	NA
CIRCLING	4900-1 670 (700-1)		5020-2¼ 790 (800-2¼)	NA

ELEV 4230 TDZE 4230



MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

BRYCE CANYON, UTAH | AL-979 (FAA) | 19311

APP CRS	Rwy ldg	7394
033°	TDZE	7590
	Apt Elev	7590

RNAV (GPS) RWY 3
BRYCE CANYON (BCE)

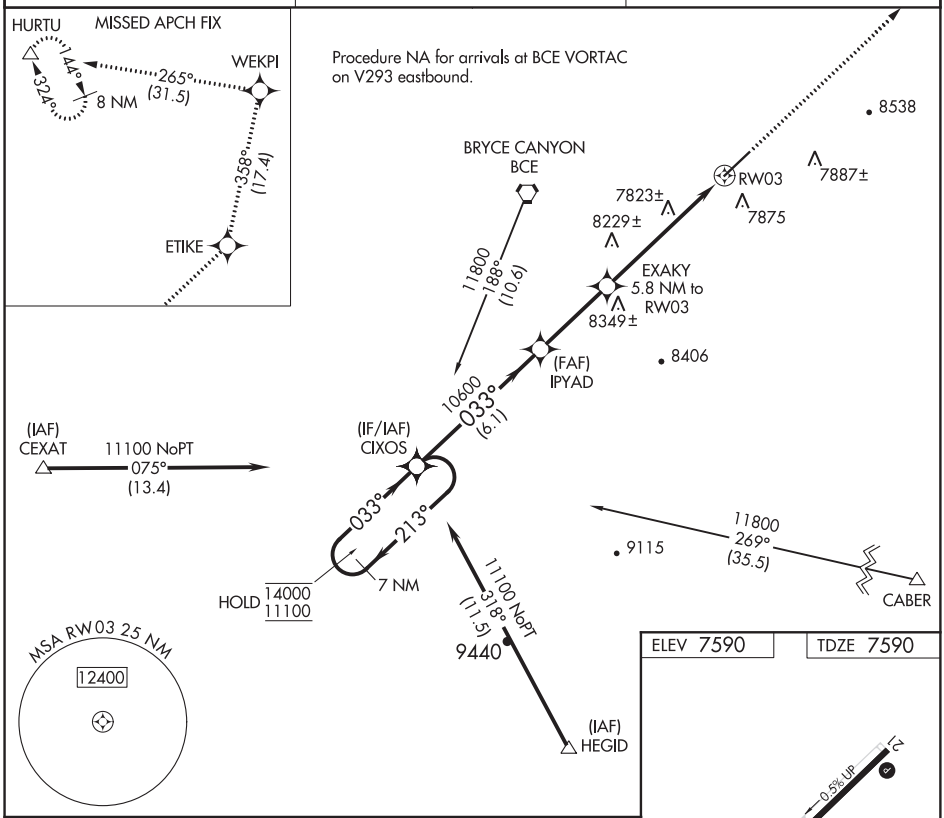
RNP APCH.

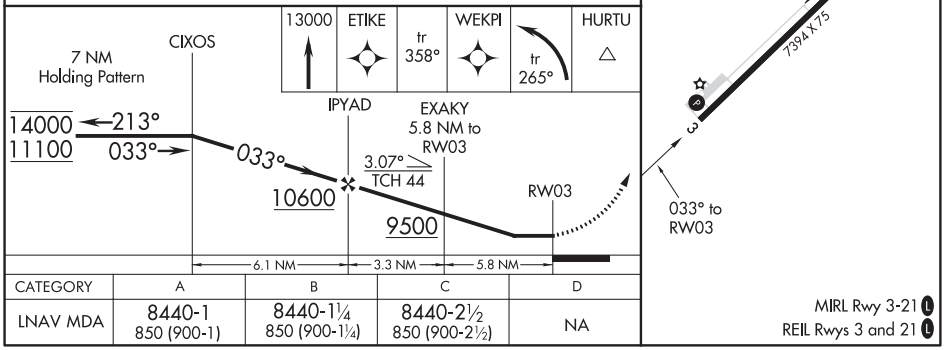
Rwy 3 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, procedure NA. Procedure NA at night.

-30°C

MISSED APPROACH: Climb to 13000 direct ETIKE and on track 358° to WEKPI and left turn on track 265° to HURTU and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
135.475	133.6 269.25	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	8440-1 850 (900-1)	8440-1¼ 850 (900-1¼)	8440-2½ 850 (900-2½)	NA

MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 99516 W21A	APP CRS 213°	Rwy ldg 7394 TDZE 7564 Apt Elev 7590

RNAV (GPS) RWY 21
BRYCE CANYON (BCE)

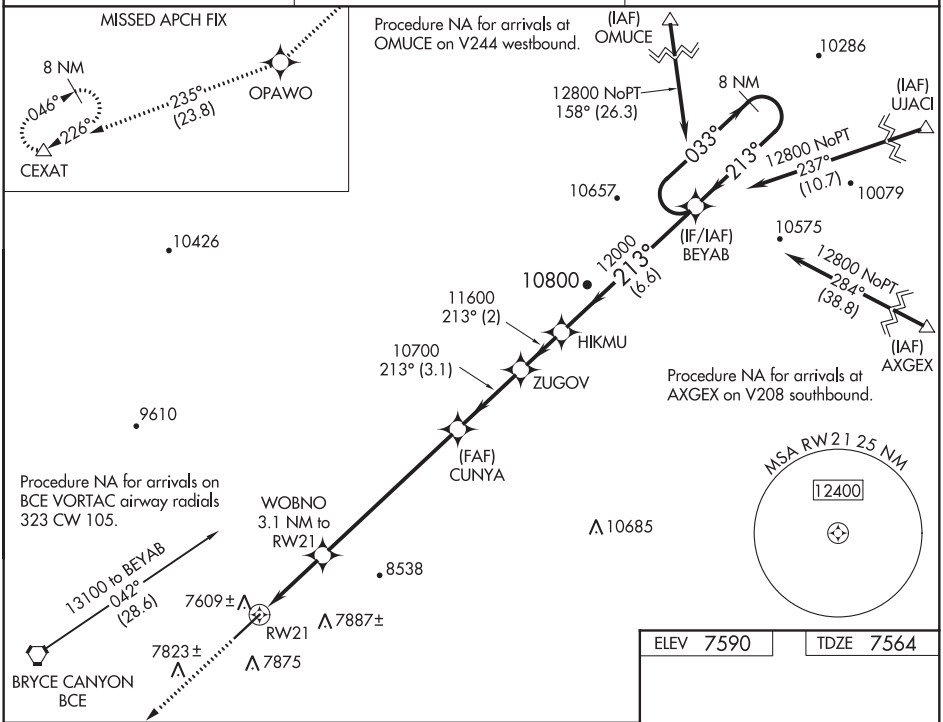
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C or above 54°C. When local altimeter setting not received, procedure NA. Rwy 21 helicopter visibility reduction below ¾ SM NA.

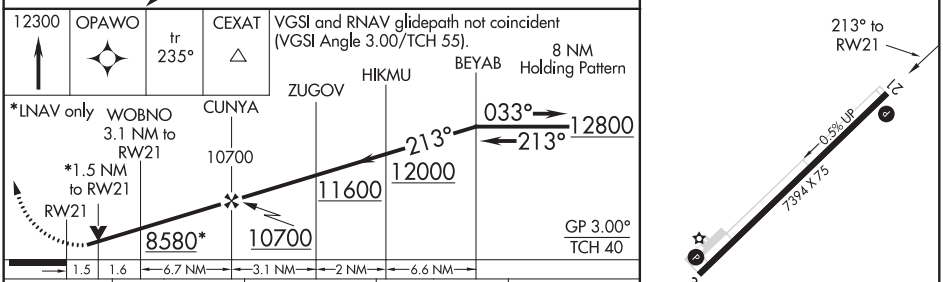
-30°C

MISSED APPROACH: Climb to 12300 direct OPAWO and on track 235° to CEXAT and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
135.475	133.6 269.25	122.80 (CTAF) L



ELEV 7590	TDZE 7564



CATEGORY	A	B	C	D
LPV DA	7889-1⅛ 325 (300-1⅛)			NA
LNAV/VNAV DA	8016-1½ 452 (500-1½)			NA
LNAV MDA	8040-1 476 (500-1)		8040-1⅜ 476 (500-1⅜)	NA

MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

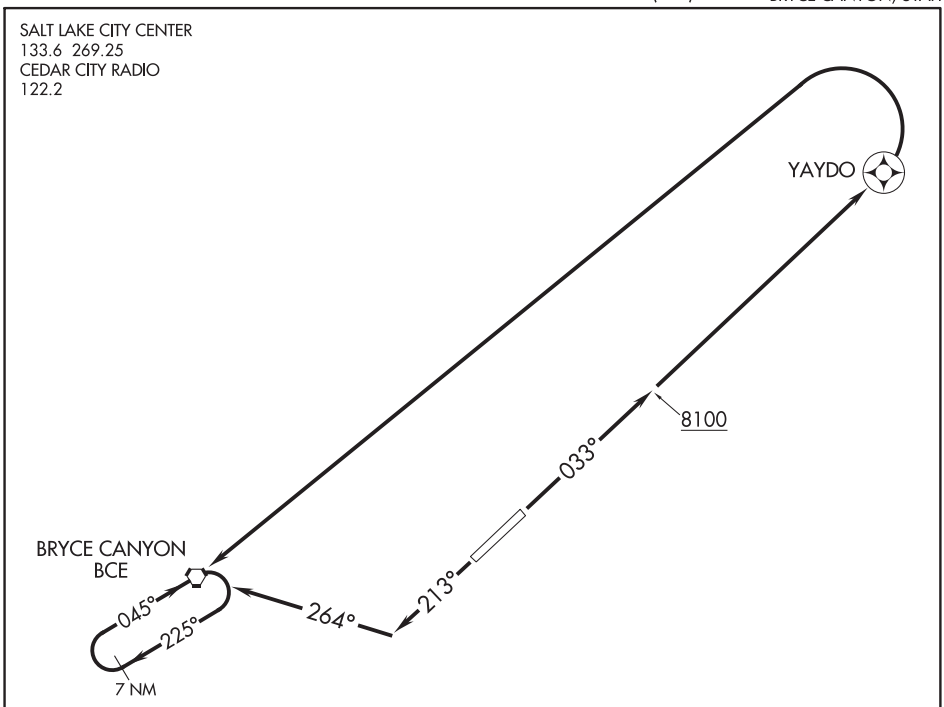
SW-4, 05 NOV 2020 to 31 DEC 2020

(BRYCE2.BRYCE) 15344

BRYCE TWO DEPARTURE (OBSTACLE) (RNAV)

SL-979 (FAA)

BRYCE CANYON (BCE)
BRYCE CANYON, UTAH



NOTE: GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 285′ per NM to 12100.
Rwy 21: Standard with minimum climb of 310′ per NM to 10500.

TAKEOFF OBSTACLE NOTES

Rwy 3: Vehicles on road beginning 135′ from DER, 374′ left of centerline, 15′ AGL/7588′ MSL.
Fence 38′ from DER, 377′ right of centerline, 8′ AGL/7558′ MSL.

Rwy 21: Fence 23′ from DER, 375′ left of centerline, 4′ AGL/7593′ MSL.
Fence 296′ from DER, 530′ right of centerline, 4′ AGL/7601′ MSL.
Vehicles on road beginning 49′ from DER, 28′ right of centerline, 15′ AGL/7623′ MSL.
Multiple poles beginning 867′ from DER, 706′ right of centerline, 39′ AGL/7638′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 033° to 8100, then climb to 13300 direct YAYDO and left turn direct BCE VORTAC. . . .

TAKEOFF RUNWAY 21: Climb heading 213° to intercept course 264° to BCE VORTAC and hold SW, RT, 045° inbound; continue climb-in-hold to MEA for route of flight. . . .

. . . .before proceeding on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82624 W16A	APP CRS 164°	Rwy ldg 8500 TDZE 646 Apt Elev 707

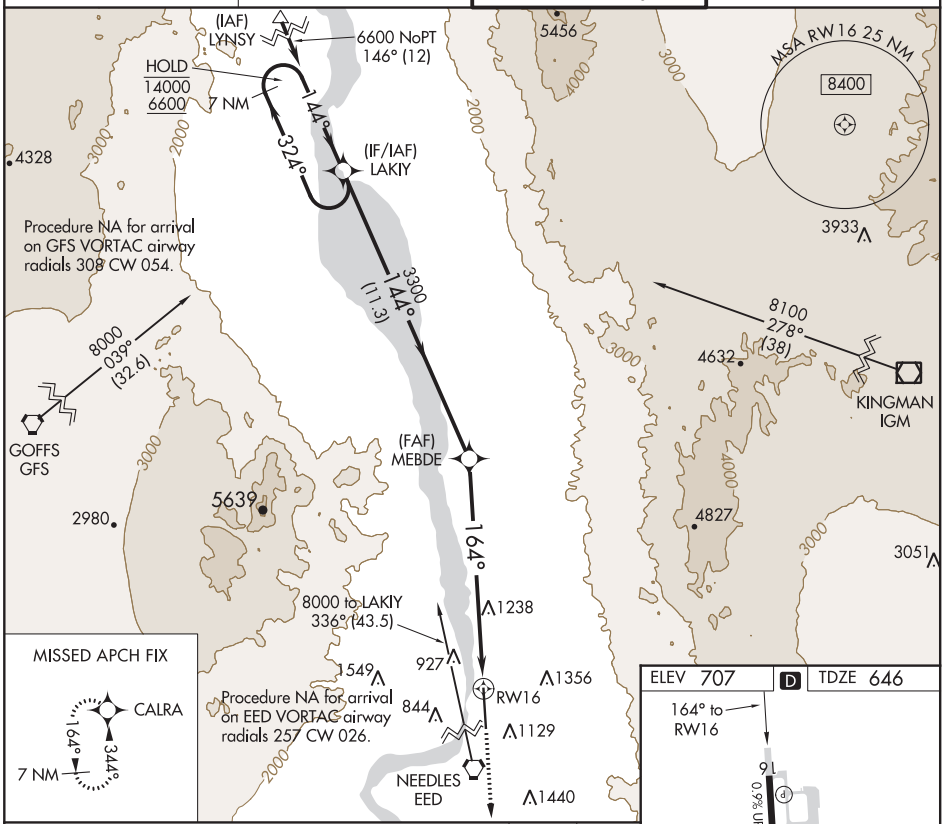
RNAV (GPS) RWY 16
LAUGHLIN/BULLHEAD INTL (IFP)

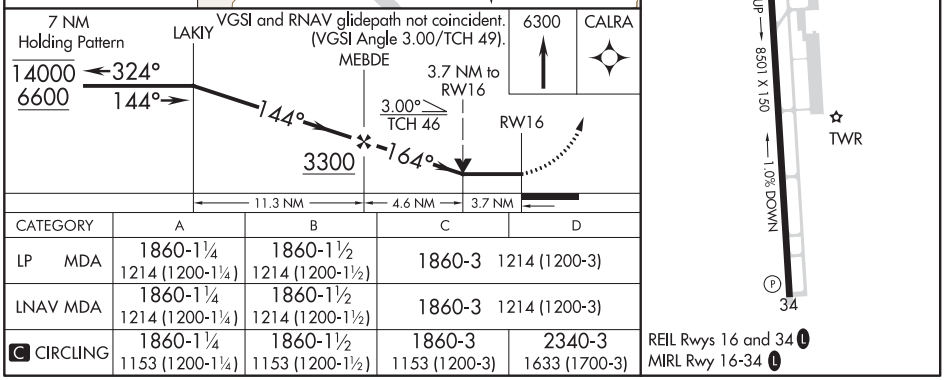
RNP APCH.

Procedure NA at night.
Rwy 16 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 6300 direct CALRA and hold, continue climb-in-hold to 6300.

ATIS ★	LOS ANGELES CENTER	BULLHEAD TOWER ★	GND CON
119.825	134.65 360.65	123.9 (CTAF) L	118.25





CATEGORY	A	B	C	D
LP MDA	1860-1¼ 1214 (1200-1¼)	1860-1½ 1214 (1200-1½)	1860-3 1214 (1200-3)	
LNAV MDA	1860-1¼ 1214 (1200-1¼)	1860-1½ 1214 (1200-1½)	1860-3 1214 (1200-3)	
C CIRCLING	1860-1¼ 1153 (1200-1¼)	1860-1½ 1153 (1200-1½)	1860-3 1153 (1200-3)	2340-3 1633 (1700-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

BULLHEAD CITY, ARIZONA — AL-6967 (FAA) — 20254

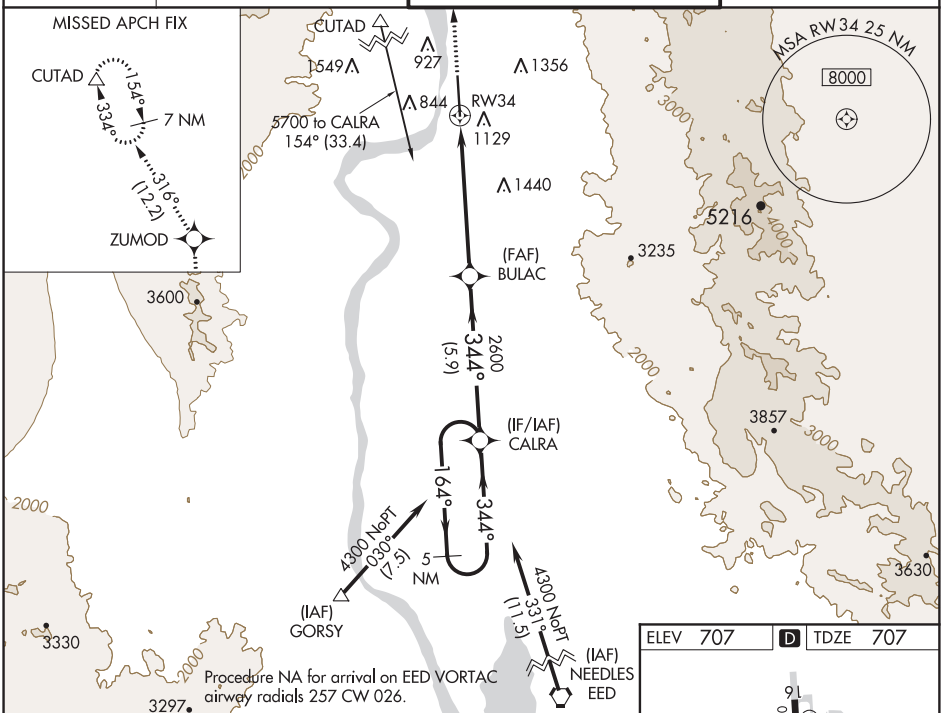
WAAS CH 82602 W34A	APP CRS 344°	Rwy ldg 8500 TDZE 707 Apt Elev 707

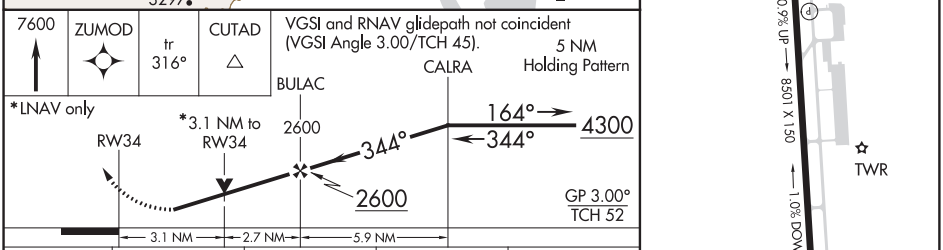
RNAV (GPS) RWY 34
LAUGHLIN/BULLHEAD INTL (IFP)

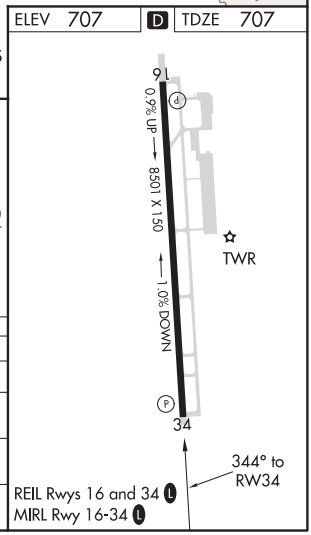
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).
Rwy 34 helicopter visibility reduction below ¾ SM NA.
DME/DME RNP-0.3 NA.
Circling Rwy 16 NA at night.

MISSED APPROACH: Climb to 7600 direct ZUMOD and on track 316° to CUTAD and hold, continue climb-in-hold to 7600.

ATIS★	LOS ANGELES CENTER	BULLHEAD TOWER★	GND CON
119.825	134.65 360.65	123.9 (CTAF) L	118.25







CATEGORY	A	B	C	D
LPV DA	1352-2½ 645 (700-2½)			
LNAV/VNAV DA	1506-3 799 (800-3)			
LNAV MDA	1740-1¼ 1033 (1100-1¼)	1740-1½ 1033 (1100-1½)	1740-3 1033 (1100-3)	
C CIRCLING	1740-1¼ 1033 (1100-1¼)	1740-1½ 1033 (1100-1½)	1800-3 1093 (1100-3)	2340-3 1633 (1700-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

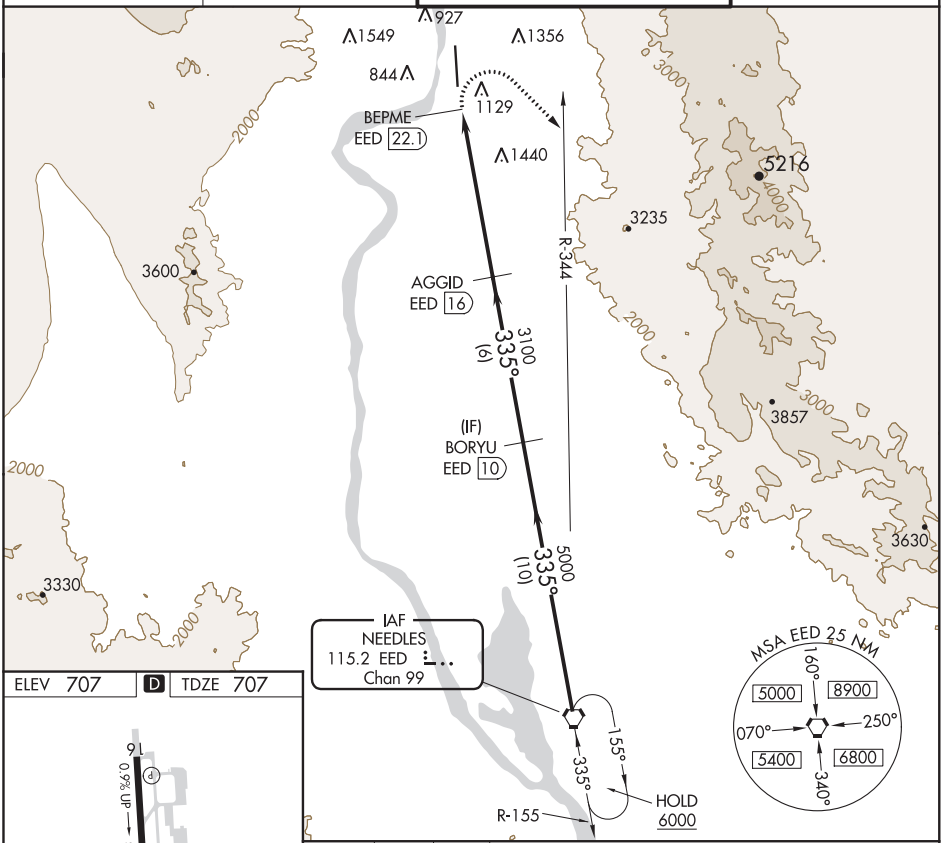
VORTAC EED 115.2 Chan 99	APP CRS 335°	Rwy ldg 8500 TDZE 707 Apt Elev 707

VOR RWY 34
LAUGHLIN/BULLHEAD INTL (IFP)

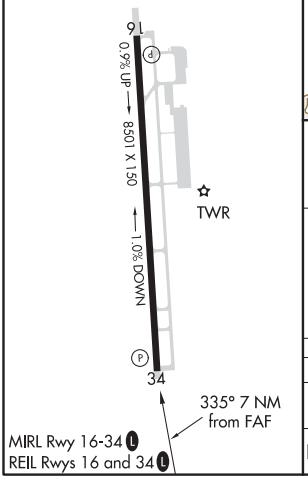
Rwy 34 helicopter visibility reduction below ¾ SM NA.
DME required. Circling Rwy 16 NA at night.

MISSED APPROACH: Climbing right turn to 6000 on heading 120° and EED VORTAC R-344 to EED VORTAC and hold.

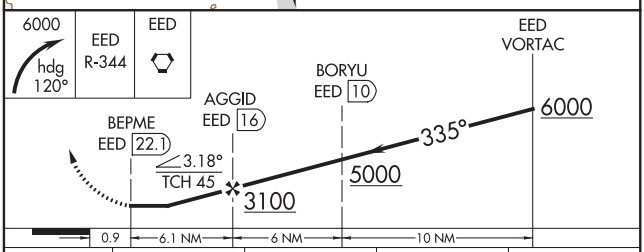
ATIS★	LOS ANGELES CENTER	BULLHEAD TOWER★	GND CON
119.825	134.65 360.65	123.9 (CTAF) L	118.25



ELEV 707 D TDZE 707



MIRL Rwy 16-34 L
REIL Rwys 16 and 34 L



CATEGORY	A	B	C	D
S-34	2840-1¼ 2133 (2200-1¼)	2840-1½ 2133 (2200-1½)	2840-3	2133 (2200-3)
C CIRCLING	2840-1¼ 2133 (2200-1¼)	2840-1½ 2133 (2200-1½)	2840-3	2133 (2200-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

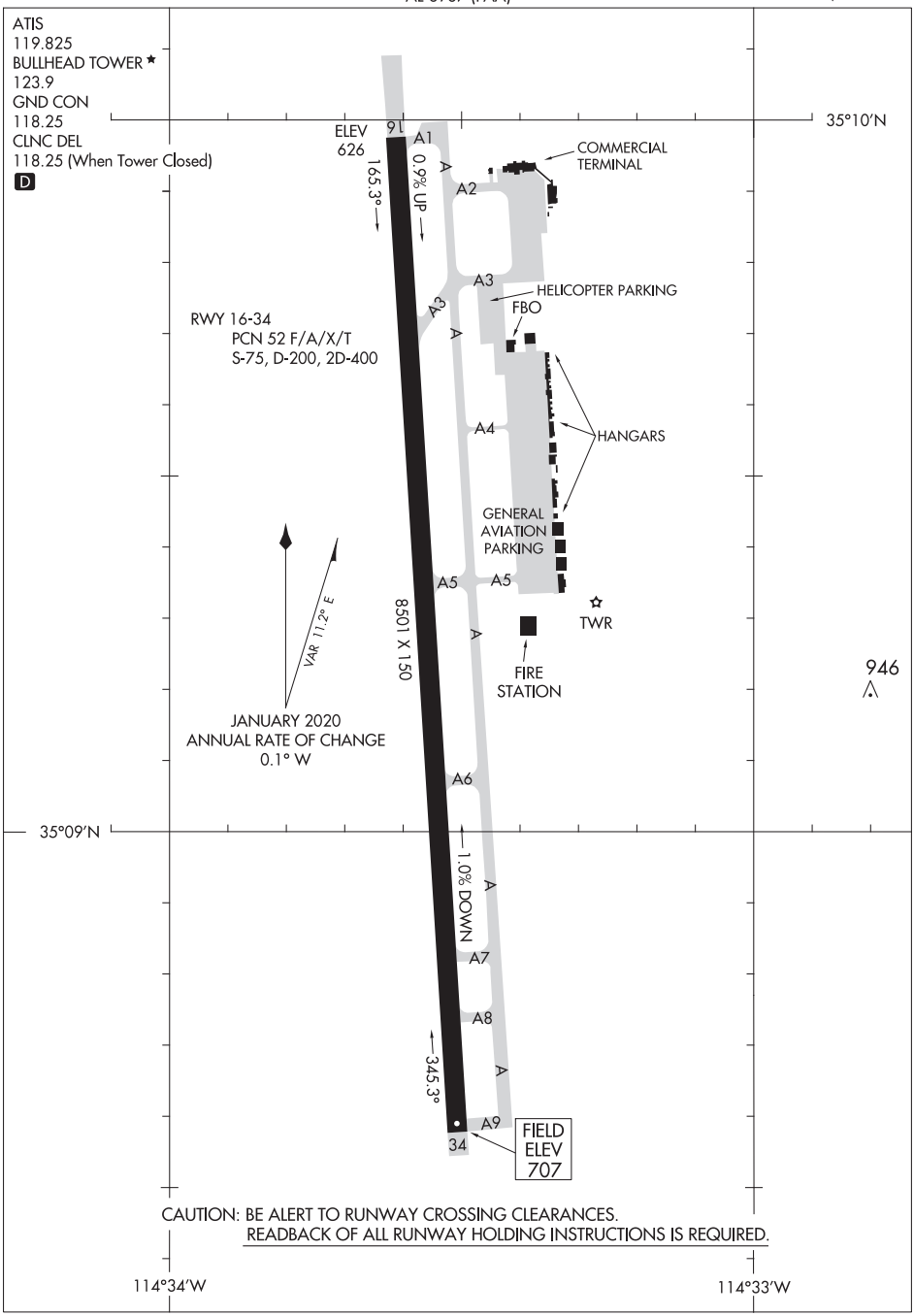
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

LAUGHLIN/BULLHEAD INTL (IFP)
BULLHEAD CITY, ARIZONA

AL-6967 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
BULLHEAD CITY, ARIZONA
LAUGHLIN/BULLHEAD INTL (IFP)

WAAS CH 87031 W27A	APP CRS 240°	Rwy ldg 6101 TDZE 4702 Apt Elev 4705

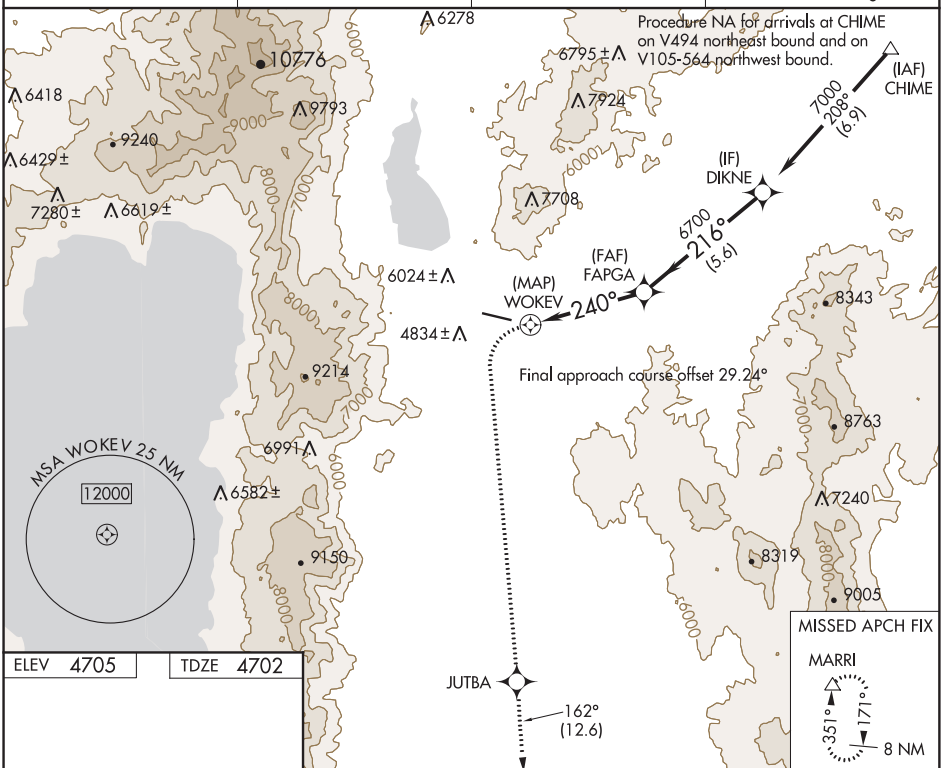
RNAV (GPS) RWY 27
CARSON (CXP)

T A NA

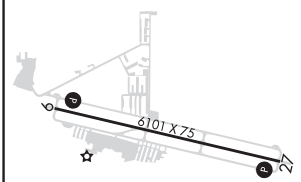
DME/DME RNP-0.3 NA. Procedure NA at night. When local altimeter setting not received use Reno/Tahoe altimeter setting and increase all MDA 540 feet. Helicopter visibility reduction below 1 SM not authorized. Circling NA north of Rwy 9-27.

MISSED APPROACH: Climbing left turn to 13400 direct JUTBA and on track 162° to MARRI and hold, continue climb-in-hold to 13400.

AWOS-3PT	NORCAL APP CON	CLNC DEL	UNICOM
119.925	119.2 279.55	133.25	123.0 (CTAF) L

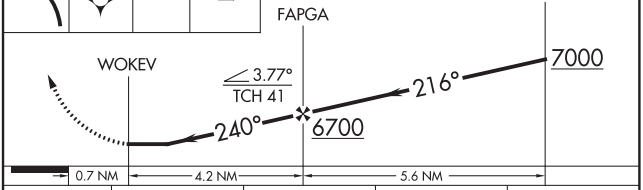


ELEV 4705	TDZE 4702



13400	JUTBA	tr 162°	MARRI

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 41).



CATEGORY	A	B	C	D
LP MDA	5900-1¼ 1198 (1200-1¼)	5900-1½ 1198 (1200-1½)	NA	
LNAV MDA	6180-1¼ 1478 (1500-1¼)	6180-1½ 1478 (1500-1½)	NA	
C CIRCLING	6180-1¼ 1475 (1500-1¼)	6180-1½ 1475 (1500-1½)	NA	

TDZL Rwys 9 and 27 L
MIRL Rwy 9-27 L ★
REIL Rwys 9 and 27 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

CARSON CITY, NEVADA | AL-6515 (FAA) | 20310

RNAV (GPS)-A
CARSON (CXP)

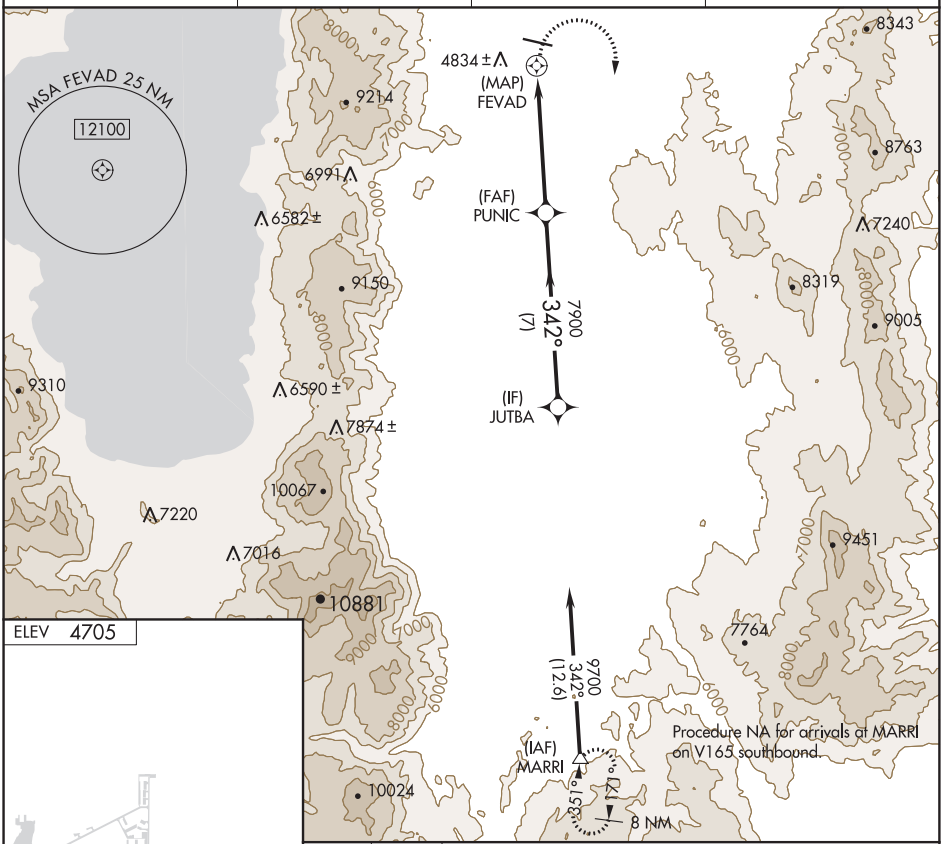
APP CRS	Rwy ldg	N/A
342°	TDZE	N/A
	Apt Elev	4705

RNP APCH.

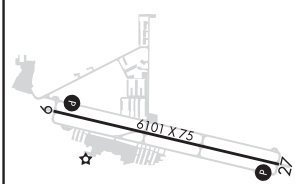
Procedure NA at night. When local altimeter setting not received, use Reno/Tahoe Intl altimeter setting and increase all MDA 540 feet. Circling NA north of Rwy 9-27.

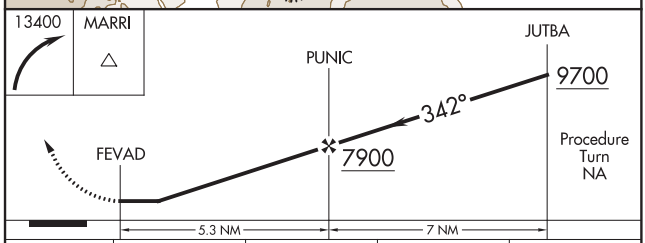
MISSED APPROACH: Climbing right turn to 13400 direct MARRI and hold, continue climb-in-hold to 13400.

AWOS-3PT	NORCAL APP CON	CLNC DEL	UNICOM
119.925	119.2 279.55	133.25	123.0 (CTAF) L



ELEV 4705





TDZL Rwys 9 and 27 L
MIRL Rwy 9-27 L ★
REIL Rwys 9 and 27 L

CATEGORY	A	B	C	D
C CIRCLING	6380-1¼ 1675 (1700-1¼)	6380-1½ 1675 (1700-1½)	6380-3 1675 (1700-3)	7660-3 2955 (3000-3)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	N/A
232°	TDZE	N/A
	Apt Elev	4705

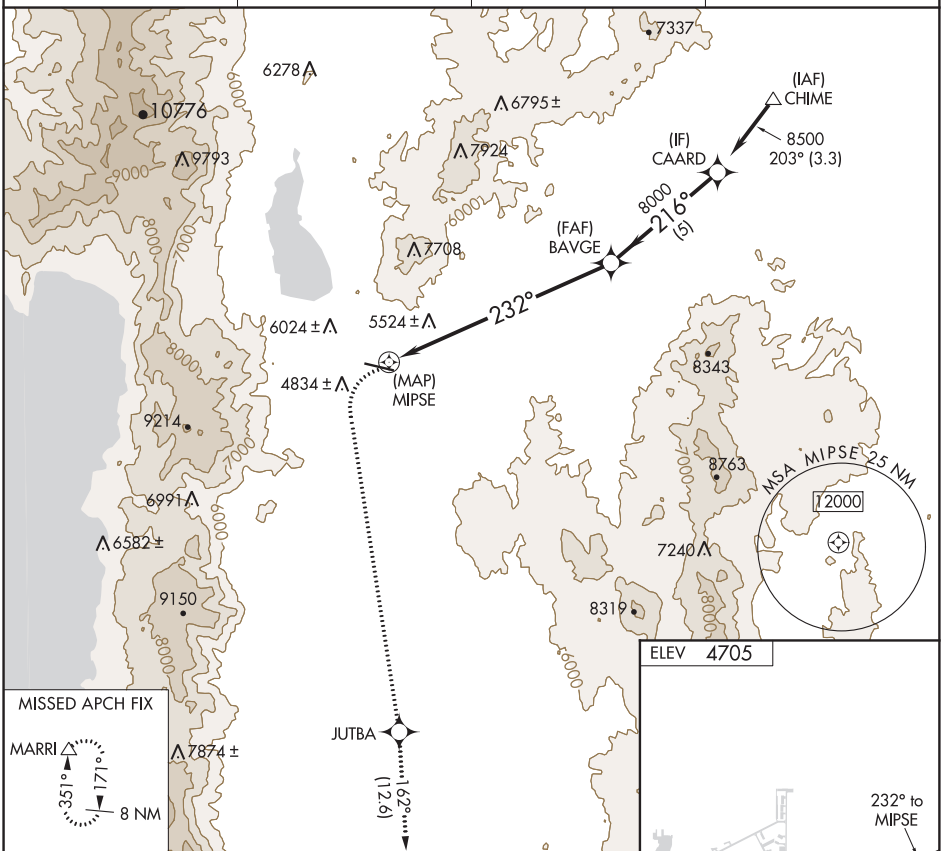
RNAV (GPS)-B
CARSON (CXP)

RNP APCH.

Circling NA north of Rwy 9-27.
Procedure NA at night.

MISSED APPROACH: Climbing left turn to 13400 direct JUTBA and on track 162° direct MARRI and hold, continue climb-in-hold to 13400.

AWOS-3PT	NORCAL APP CON	CLNC DEL	UNICOM
119.925	119.2 279.55	133.25	123.0 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	6340-1¼ 1635 (1700-1¼)	6340-1½ 1635 (1700-1½)	6340-3 1635 (1700-3)	7660-3 2955 (3000-3)

TDZL Rwys 9 and 27 L
MIRL Rwy 9-27 L ★
REIL Rwys 9 and 27 L

SW-4, 05 NOV 2020 to 31 DEC 2020

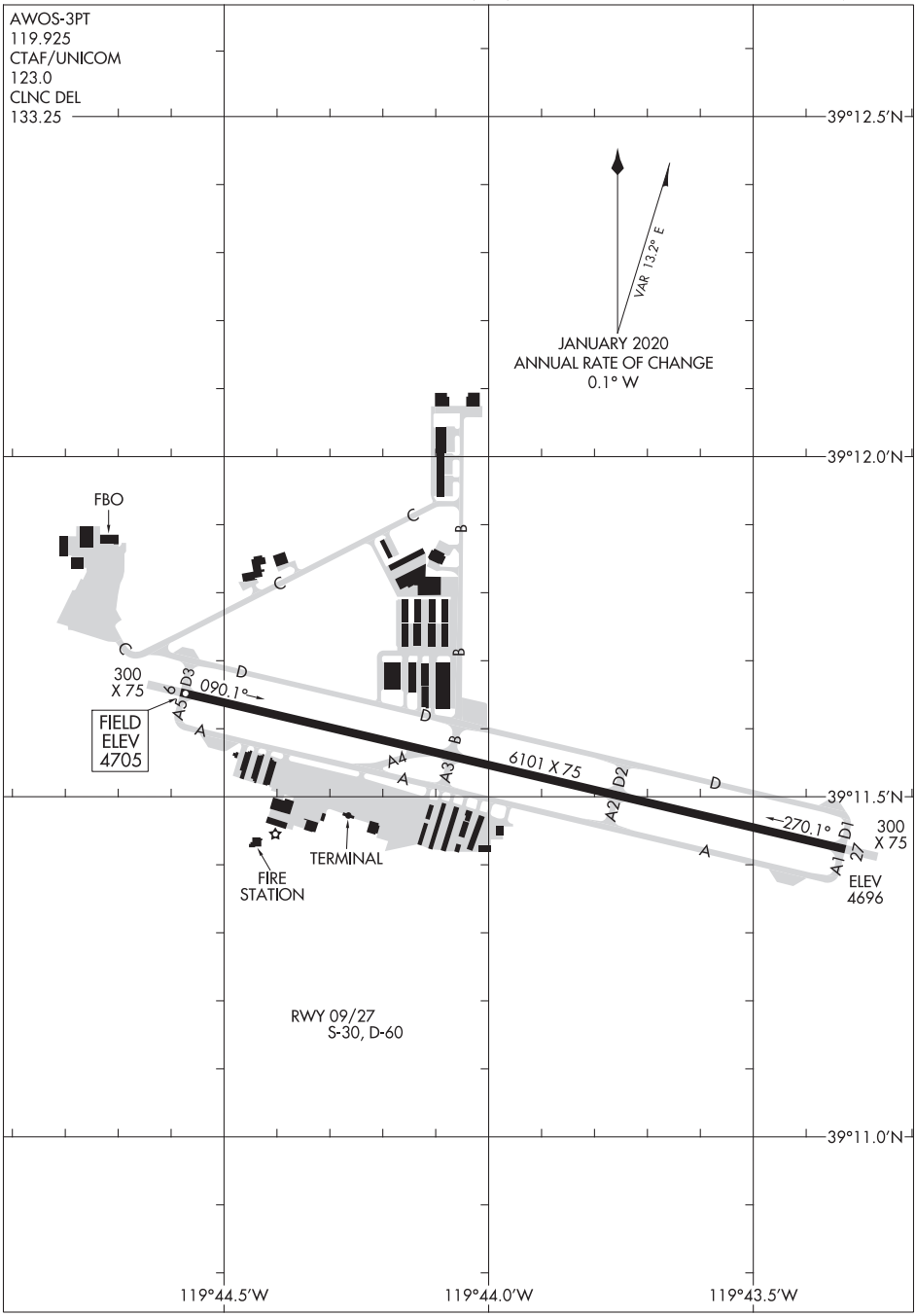
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-6515 (FAA)

CARSON (CXP)
CARSON CITY, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

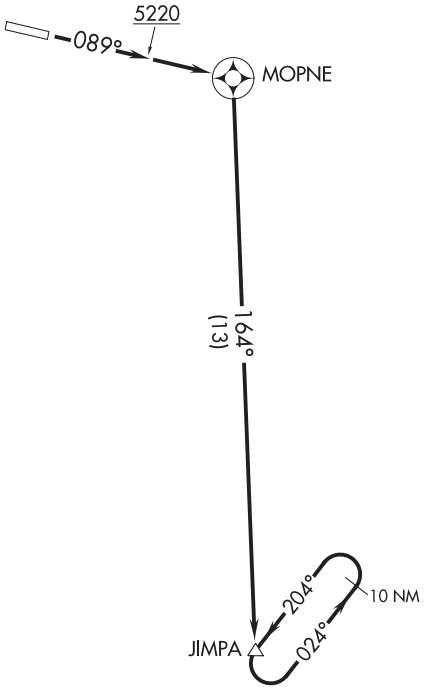
AIRPORT DIAGRAM
20086

CARSON CITY, NEVADA
CARSON (CXP)

JIMPA TWO DEPARTURE (OBSTACLE) (RNAV)

SL-6515 (FAA)

AWOS-3PT
119.925
NORCAL DEP CON
119.2 279.55



NOTE: RNAV 1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 9: Standard with minimum climb of 550′ per NM to 11400′.
Rwy 27: NA - Obstacles.

TAKEOFF OBSTACLE NOTES

Rwy 9: Powerlines beginning 630′ from DER, left and right of centerline, up to 75′ AGL/4754′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 089° to 5220, then climb to 15000 direct MOPNE and on track 164° to JIMPA and hold. Continue climb-in-hold to 15000 before proceeding on course.

SW-4, 05 NOV 2020 to 31 DEC 2020

CASA GRANDE, ARIZONA AL-6656 (FAA) 18312

ILS or LOC RWY 5
CASA GRANDE MUNI (CGZ)

LOC I-CGZ	APP CRS	Rwy ldg	5200
111.15	048°	TDZE	1458
		Apt Elev	1464

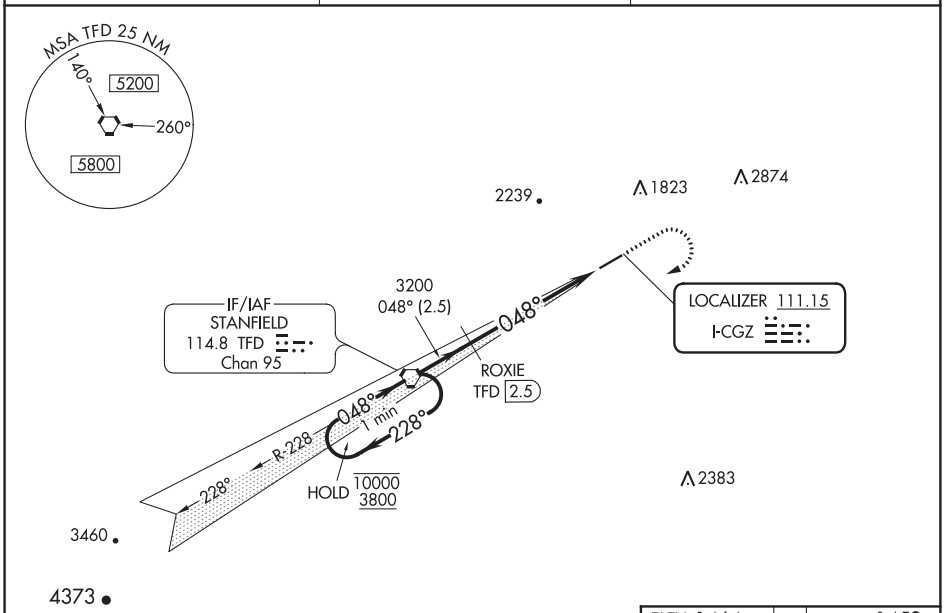
DME required for LOC only.

T A NA — Circling NA for Cat C and D northwest of Rwy 5-23. Autopilot coupled approach NA below 1650. DME from TFD VORTAC. Simultaneous reception of I-CGZ and TFD DME required. For inop ALS, increase S-LOC 5 Cat C/D visibility to 1 SM.

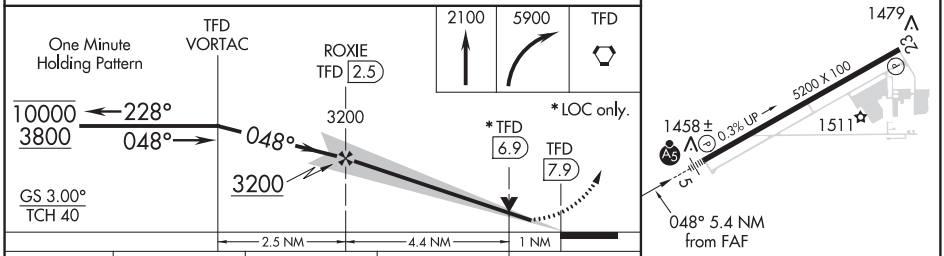
MALSR

MISSED APPROACH: Climb to 2100 then climbing right turn to 5900 direct STANFIELD VORTAC and hold. Continue climb in hold to 5900.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
132.175	125.4 269.3	122.7 (CTAF) L



ELEV 1464 TDZE 1458



CATEGORY	A	B	C	D
S-ILS 5	1708-½ 250 (300-½)			
S-LOC 5	1800-½ 342 (400-½)		1800-⅝ 342 (400-⅝)	
C CIRCLING	1960-1 496 (500-1)		1960-1½ 496 (500-1½)	2260-2½ 796 (800-2½)

MIRL Rwy 5-23

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH **61042** **W05A**	APP CRS **048°**	Rwy ldg **5200** TDZE **1458** Apt Elev **1464**

RNAV (GPS) RWY 5
CASA GRANDE MUNI (CGZ)

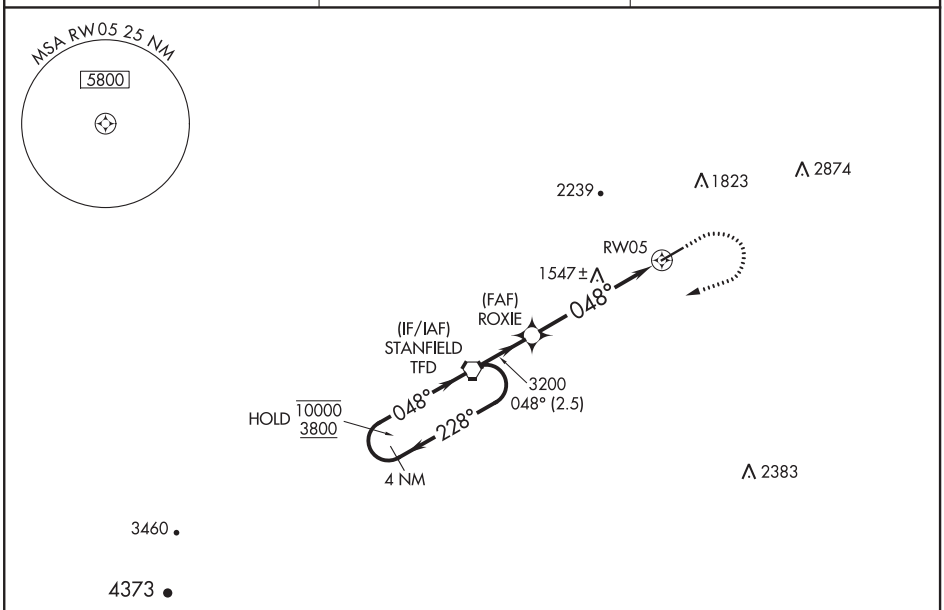
RNP APCH.

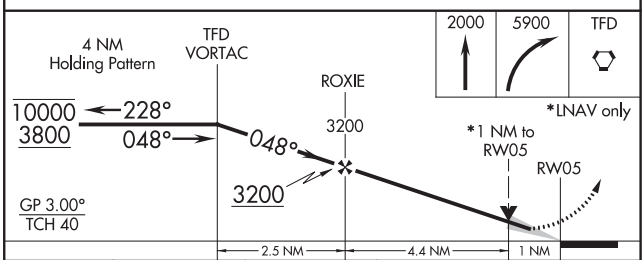
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C. Circling NA for Cat C and D northwest of Rwy 5-23. For inoperative ALS, increase LNAV Cat C/D visibility to 1 SM.

MALSR

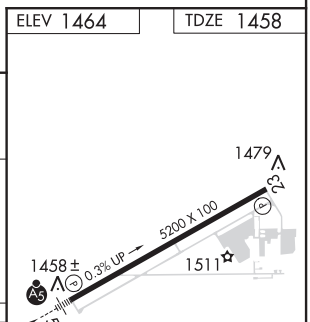
MISSED APPROACH: (Do not exceed 240K until TFD VORTAC) Climb to 2000 then climbing right turn to 5900 direct TFD VORTAC and hold. Continue climb in hold to 5900.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
132.175	**125.4 269.3**	**122.7** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1708-½ 250 (300-½)			
LNAV/VNAV DA	1708-½ 250 (300-½)			
LNAV MDA	1800-½ 342 (400-½)		1800-⅝ 342 (400-⅝)	
C CIRCLING	1960-1 496 (500-1)		1960-1½ 496 (500-1½)	2260-2½ 796 (800-2½)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

CASA GRANDE, ARIZONA | AL-6656 (FAA) | 18256

APP CRS	Rwy ldg	5200
241°	TDZE	1464
	Apt Elev	1464

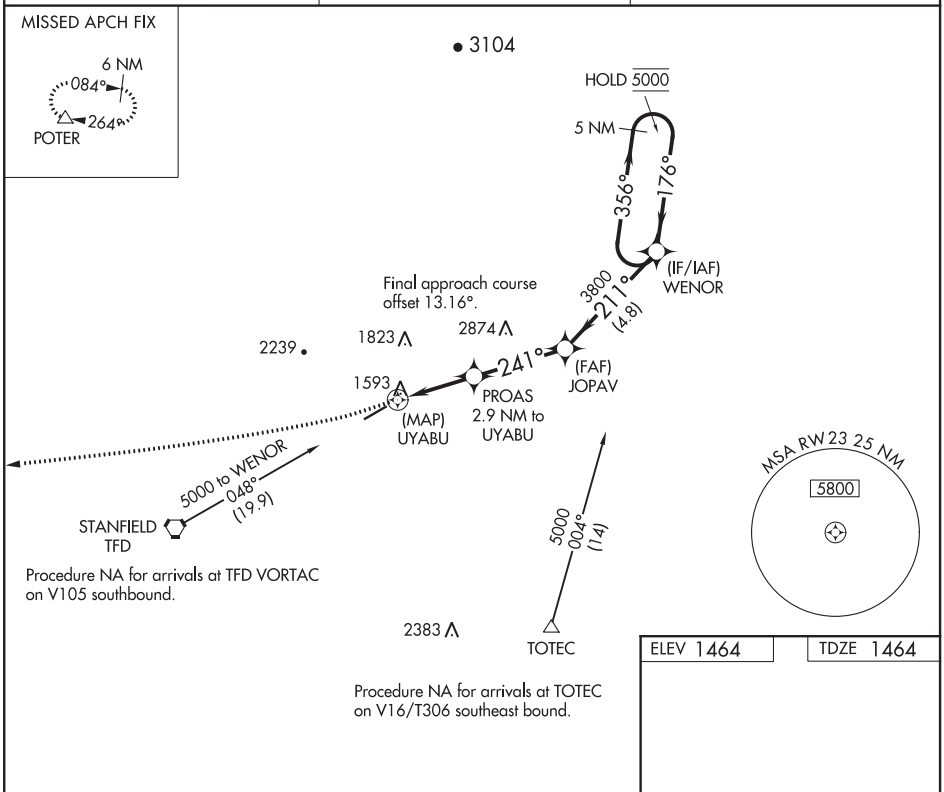
RNAV (GPS) RWY 23
CASA GRANDE MUNI (CGZ)

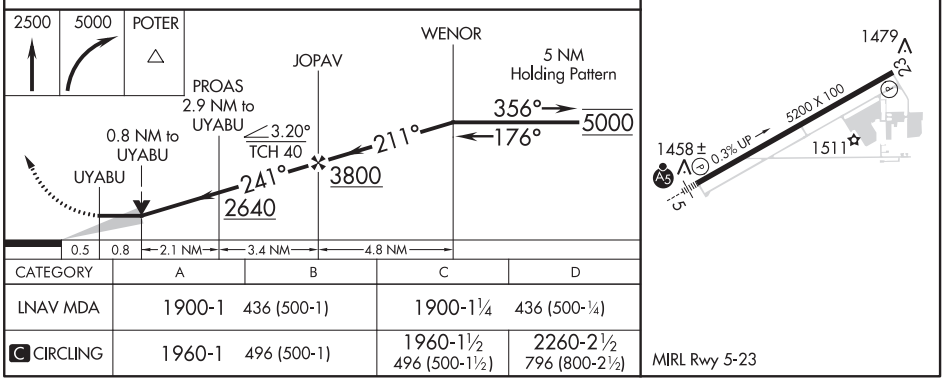
RNP APCH.

T A Circling NA for Cat C and D northwest of Rwy 5-23.

MISSED APPROACH: Climb to 2500 then climbing right turn to 5000 direct POTER and hold.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
132.175	125.4 269.3	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1900-1 436 (500-1)		1900-1¼ 436 (500-¼)	
C CIRCLING	1960-1 496 (500-1)		1960-1½ 496 (500-1½)	2260-2½ 796 (800-2½)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC TFD	APP CRS	Rwy ldg	5200
114.8	048°	TDZE	1458
Chan 95		Apt Elev	1464

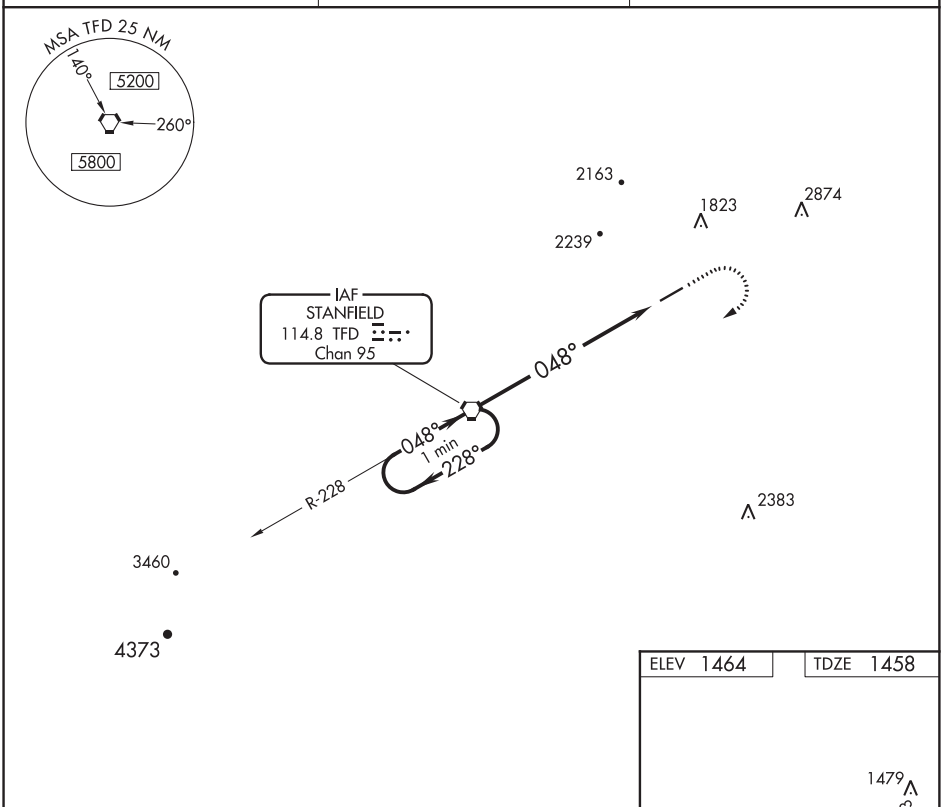
VOR RWY 5
CASA GRANDE MUNI (CGZ)

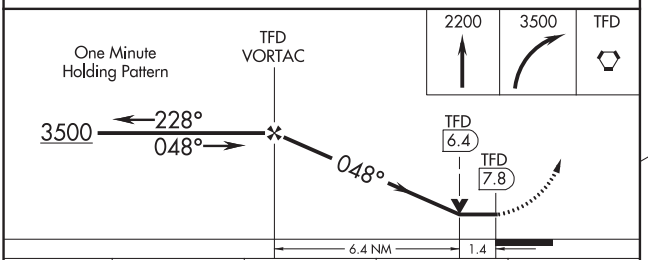
For inop ALS, increase S-5 Cats A/B visibility to 1 mile. Rwy 5 helicopter visibility reduction below ¾ SM NA. Circling Rwy 23 NA at night.

MALSR

MISSED APPROACH: Climb to 2200, then climbing right turn to 3500 direct TFD VORTAC and hold.

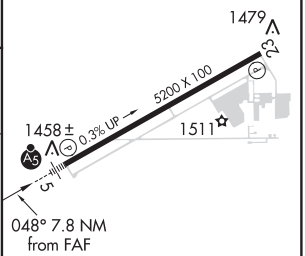
AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
132.175	125.4 269.3	122.7 (CTAF) L





CATEGORY	A	B	C	D
S-5	1960-¾	502 (500-¾)	NA	
C CIRCLING	1960-1	496 (500-1)	NA	

ELEV 1464 TDZE 1458



MIRL Rwy 5-23

FAF to MAP 7.8 NM					
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

CEDAR CITY, UTAH | AL-5139 (FAA) | 18200

LOC I-ECC	APP CRS	Rwy ldg	8650
110.1	200°	TDZE	5600
		Apt Elev	5622

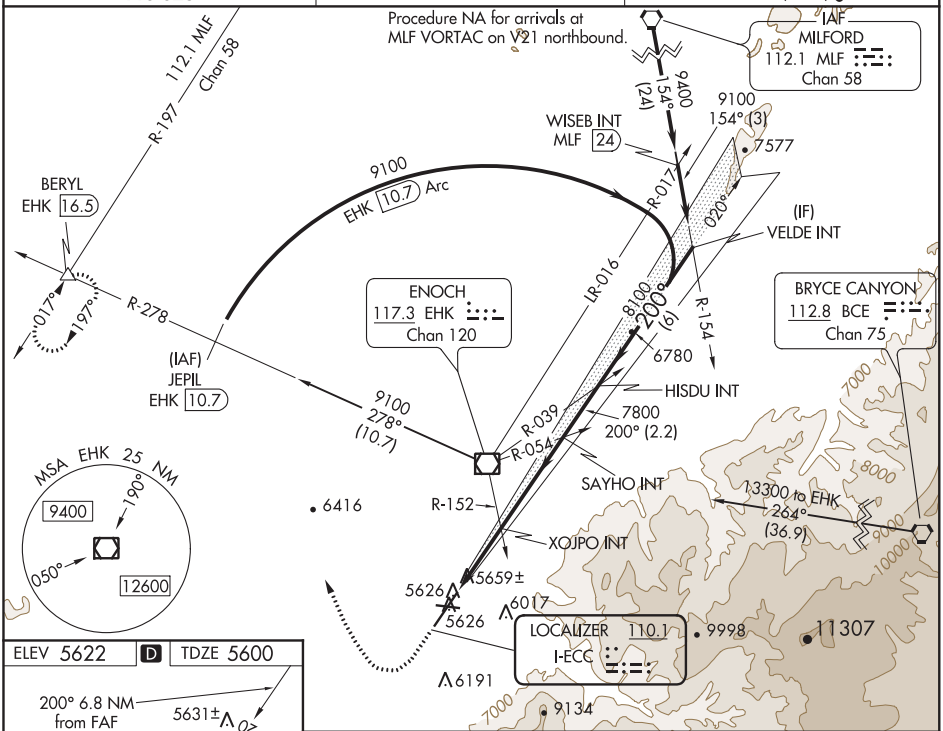
ILS or LOC RWY 20
CEDAR CITY RGNL(CDC)

T A NA — Circling NA southeast of Rwy 2-20. For inop ALS, increase S-LOC 20 Cats C/D visibility to 1 SM. # For inop ALS, increase S-ILS 20 visibility all Cats to ⅞ SM.

MALSR A5

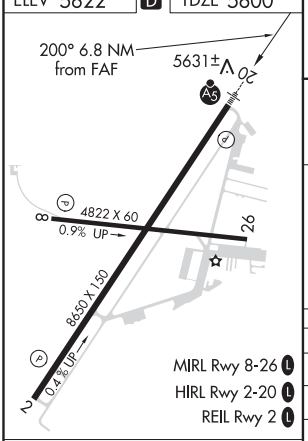
MISSED APPROACH: Climb to 6100 then climbing right turn to 9900 on heading 322° and EHK VOR/DME R-278 to BERYL INT/EHK 16.5 DME and hold, continue climb-in-hold to 9900.
† Missed approach requires minimum climb of 230 feet per NM to 7300.

ASOS	SALT LAKE CITY CENTER	UNICOM
119.025	125.575 379.275	123.0 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 5622 | D | TDZE 5600

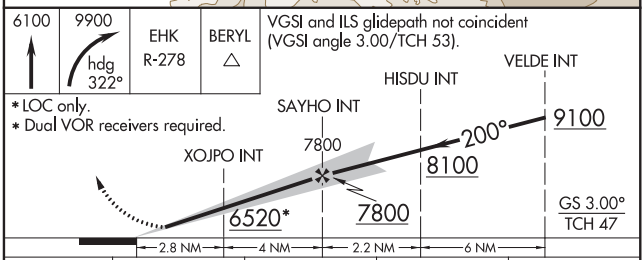


FAF to MAP 6.8 NM					
Knots	60	90	120	150	180
Min:Sec	6:48	4:32	3:24	2:43	2:16

6100	9900 hdg 322°	EHK R-278	BERYL △

VGSI and ILS glidepath not coincident (VGSI angle 3.00/TCH 53).

* LOC only.
* Dual VOR receivers required.



CATEGORY	A	B	C	D
S-ILS 20 †	5820-½ 220 (200-½)			
S-ILS 20 #	5868-½ 268 (300-½)			
S-LOC 20	5960-½ 360 (400-½)		5960-⅝ 360 (400-⅝)	
C CIRCLING	6000-1 378 (400-1)	6100-1 478 (500-1)	6120-1½ 498 (500-1½)	6180-2 558 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 72640 W20A	APP CRS 200°	Rwy ldg 8650 TDZE 5600 Apt Elev 5622

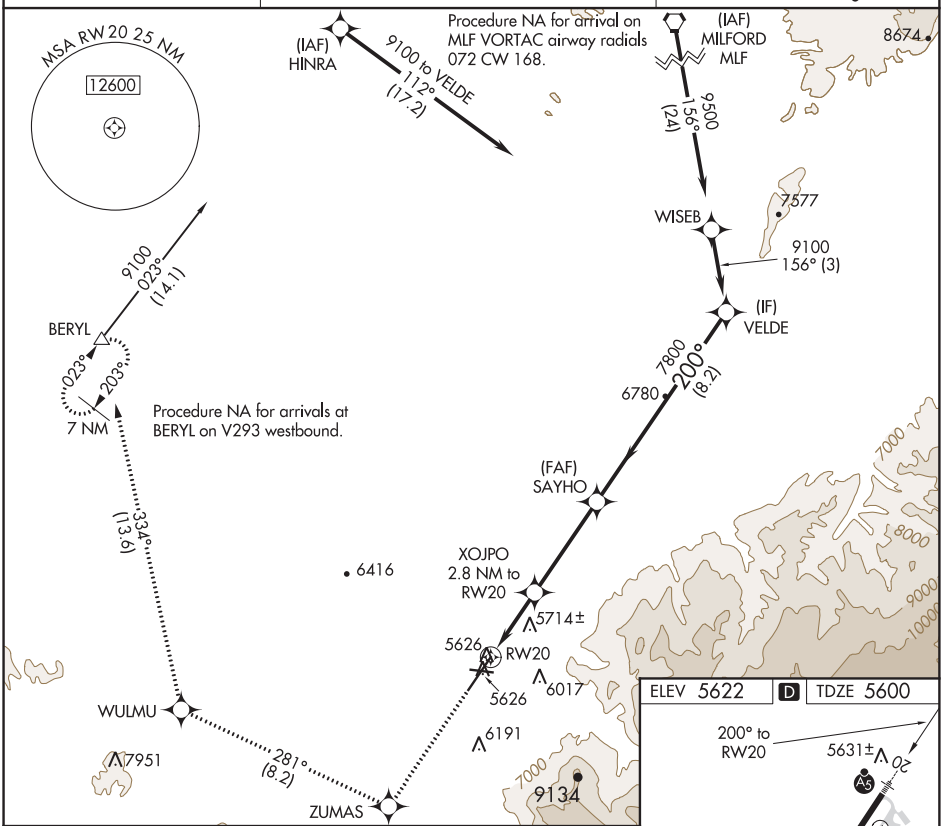
RNAV (GPS) RWY 20
CEDAR CITY RGNL (CDC)

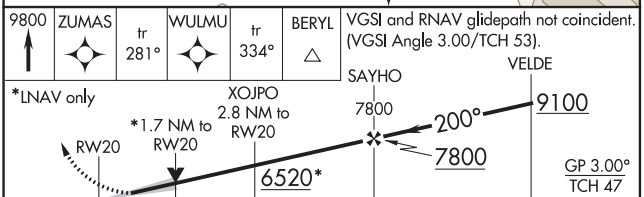
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 48°C (119°F). Circling NA southeast of Rwy 2-20. DME/DME RNP -0.3 NA. For inop ALS, increase LNAV Cats C/D visibility to 1⅝ SM.

MALSR A5

MISSED APPROACH: Climb to 9800 direct ZUMAS and on track 281° to WULMU and on track 334° to BERYL and hold.

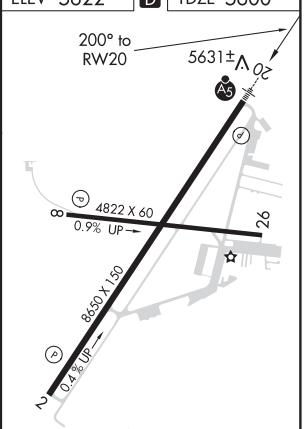
ASOS	SALT LAKE CITY CENTER	UNICOM
119.025	125.575 379.275	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	5820-½ 220 (200-½)			
LNAV/VNAV DA	5978-¾ 378 (400-¾)			
LNAV MDA	6180-½ 580 (600-½)		6180-1¼ 580 (600-1¼)	
C CIRCLING	6180-1 558 (600-1)		6180-1⅝ 558 (600-1⅝)	6180-2 558 (600-2)

ELEV 5622 D TDZE 5600



MIRL Rwy 8-26 L
HIRL Rwy 2-20 L
REIL Rwy 2 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

CEDAR CITY, UTAH | AL-5139 (FAA) | 18200

VOR RWY 20
CEDAR CITY RGNL(CDC)

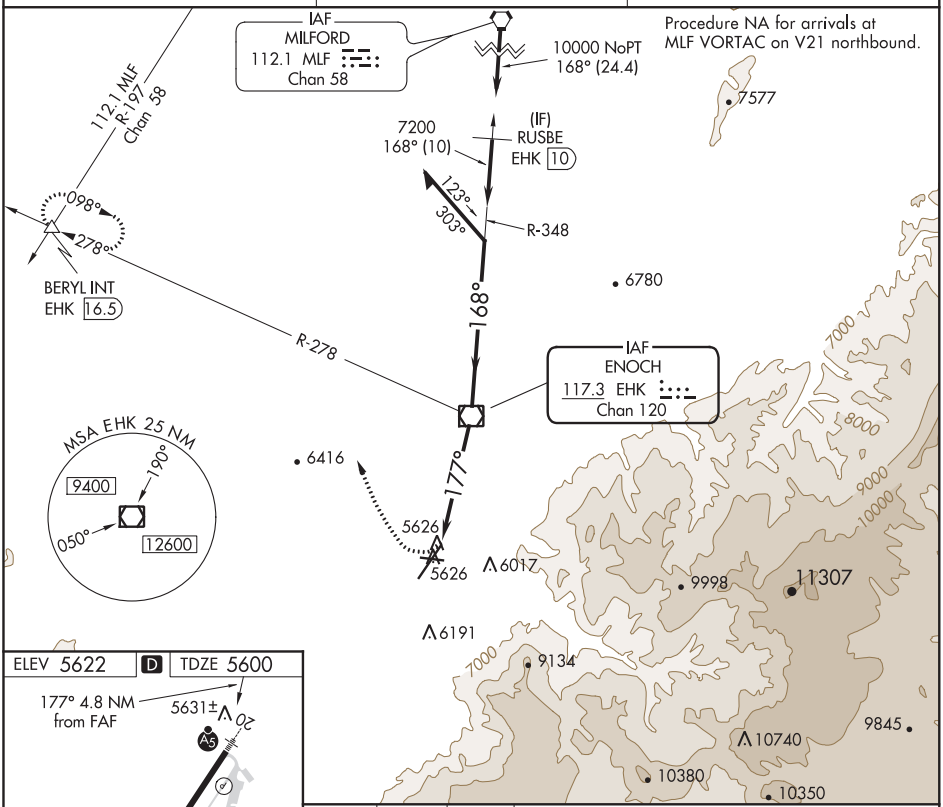
VOR/DME EHK 117.3 Chan 120	APP CRS 177°	Rwy ldg 8650 TDZE 5600 Apt Elev 5622

Inoperative table does not apply.
Circling NA southeast of Rwy 2-20.

MALSR

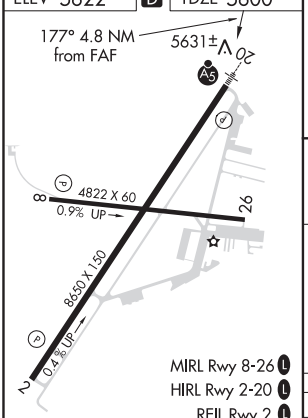
MISSED APPROACH: Climbing right turn to 9500 on heading 322° and EHK VOR/DME R-278 to BERYL INT/EHK 16.5 DME and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
119.025	125.575 379.275	123.0 (CTAF) L

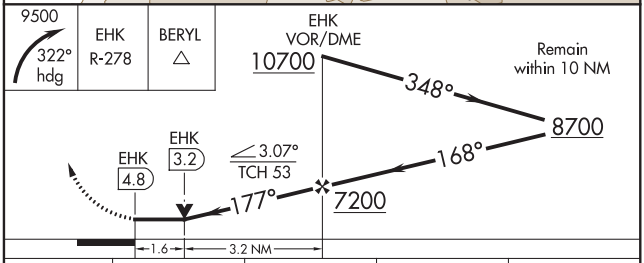


SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 5622 | D | TDZE 5600



FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36



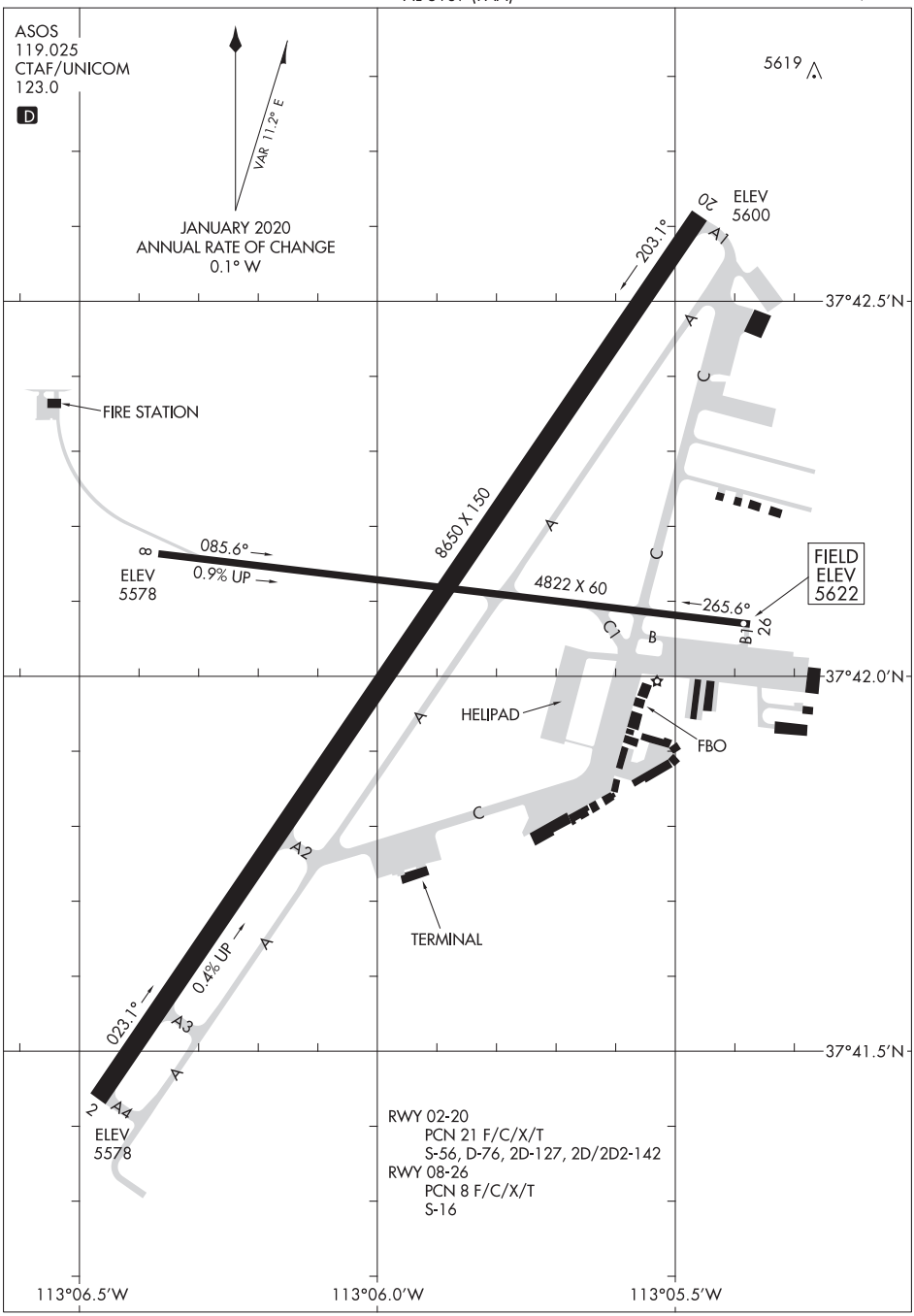
CATEGORY	A	B	C	D
S-20	6160-1 560 (600-1)		6160-1⅝ 560 (600-1⅝)	
C CIRCLING	6160-1 538 (600-1)		6160-1⅝ 538 (600-1⅝)	6180-2 558 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

CEDAR CITY, UTAH
Amdt 7 05JAN17

37°42′N-113°06′W

CEDAR CITY RGNL(CDC)
VOR RWY 20


ASOS
119.025
CTAF/UNICOM
123.0
D
VAR 11.2° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
5619
20
ELEV
5600
203.1°
A1
37°42.5'N
A
C
FIRE STATION
8650 X 150
8
085.6°
0.9% UP
ELEV
5578
4822 X 60
265.6°
FIELD
ELEV
5622
26
B1
C1
B
37°42.0'N
HELIPAD
FBO
A2
TERMINAL
0.4% UP
023.1°
A3
A4
2
ELEV
5578
37°41.5'N
RWY 02-20
PCN 21 F/C/X/T
S-56, D-76, 2D-127, 2D/2D2-142
RWY 08-26
PCN 8 F/C/X/T
S-16
113°06.5'W
113°06.0'W
113°05.5'W

CHANDLER, ARIZONA

AL-6494 (FAA)

19283

RNAV (GPS) RWY 4R
CHANDLER MUNI (CHD)

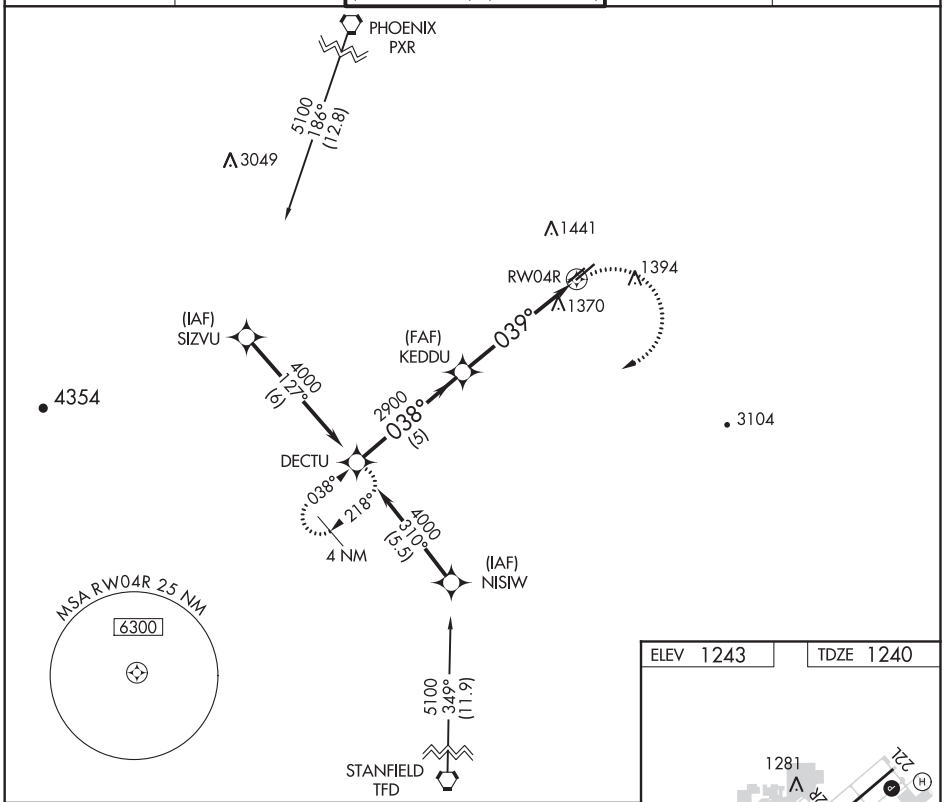
APP CRS	Rwy ldg	4870
039°	TDZE	1240
	Apt Elev	1243

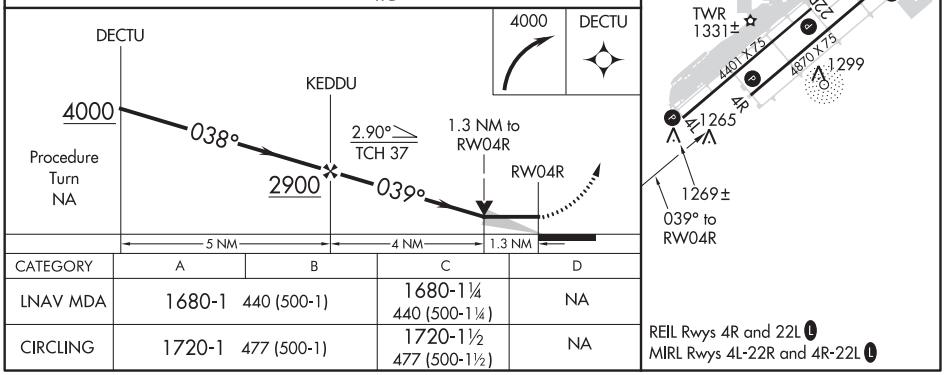
T A NA

GPS or RNP- 0.3 required. DME/DME RNP-0.3 NA. When VGSI inoperative, Circling to Rwy 4L NA at night.

MISSED APPROACH: Climbing right turn to 4000 direct to DECTU WP and hold.

ATIS	PHOENIX APP CON	CHANDLER TOWER ★	GND CON	UNICOM
128.325	123.7 363.0	126.1 (CTAF) L (North and West) 133.1 (South and East)	124.4	122.95





CATEGORY	A	B	C	D
LNAV MDA	1680-1 440 (500-1)		1680-1¼ 440 (500-1¼)	NA
CIRCLING	1720-1 477 (500-1)		1720-1½ 477 (500-1½)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-6494 (FAA)

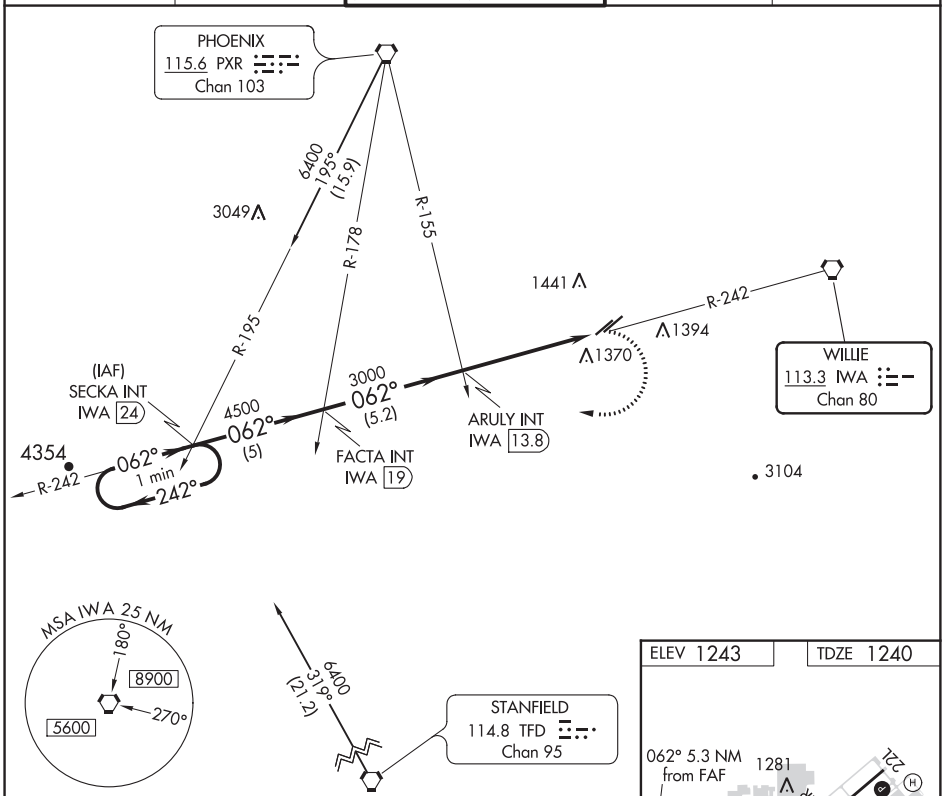
VOR RWY 4R
CHANDLER MUNI (CHD)

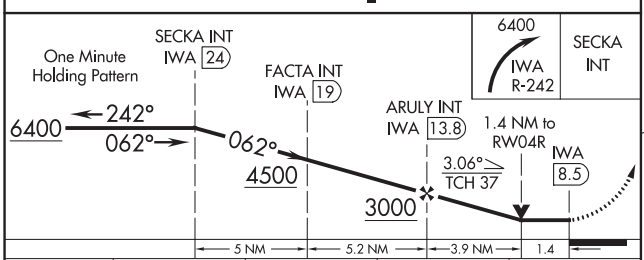
VORTAC IWA	APP CRS	Rwy ldg	4870
113.3	062°	TDZE	1240
Chan 80		Apt Elev	1243

When VGSI inoperative, Circling Rwy 4L NA at night.

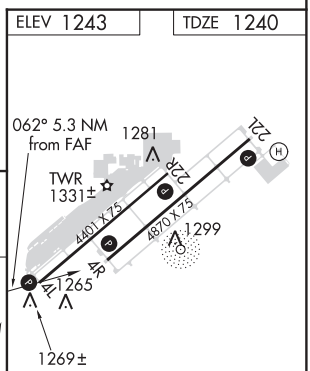
MISSED APPROACH: Climbing right turn to 6400 via IWA R-242 to SECKA Int and hold.

ATIS	PHOENIX APP CON	CHANDLER TOWER*	GND CON	UNICOM
128.325	123.7 363.0	126.1 (CTAF) L (North and West) 133.1 (South and East)	124.4	122.95





CATEGORY	A	B	C	D
S-4R	1680-1 440 (500-1)		1680-1¼ 440 (500-1¼)	NA
CIRCLING	1720-1 477 (500-1)		1720-1½ 477 (500-1½)	NA



REIL Rwys 4R and 22L L
MIRL Rwys 4L-22R and 4R-22L L

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

SW-4, 05 NOV 2020 to 31 DEC 2020

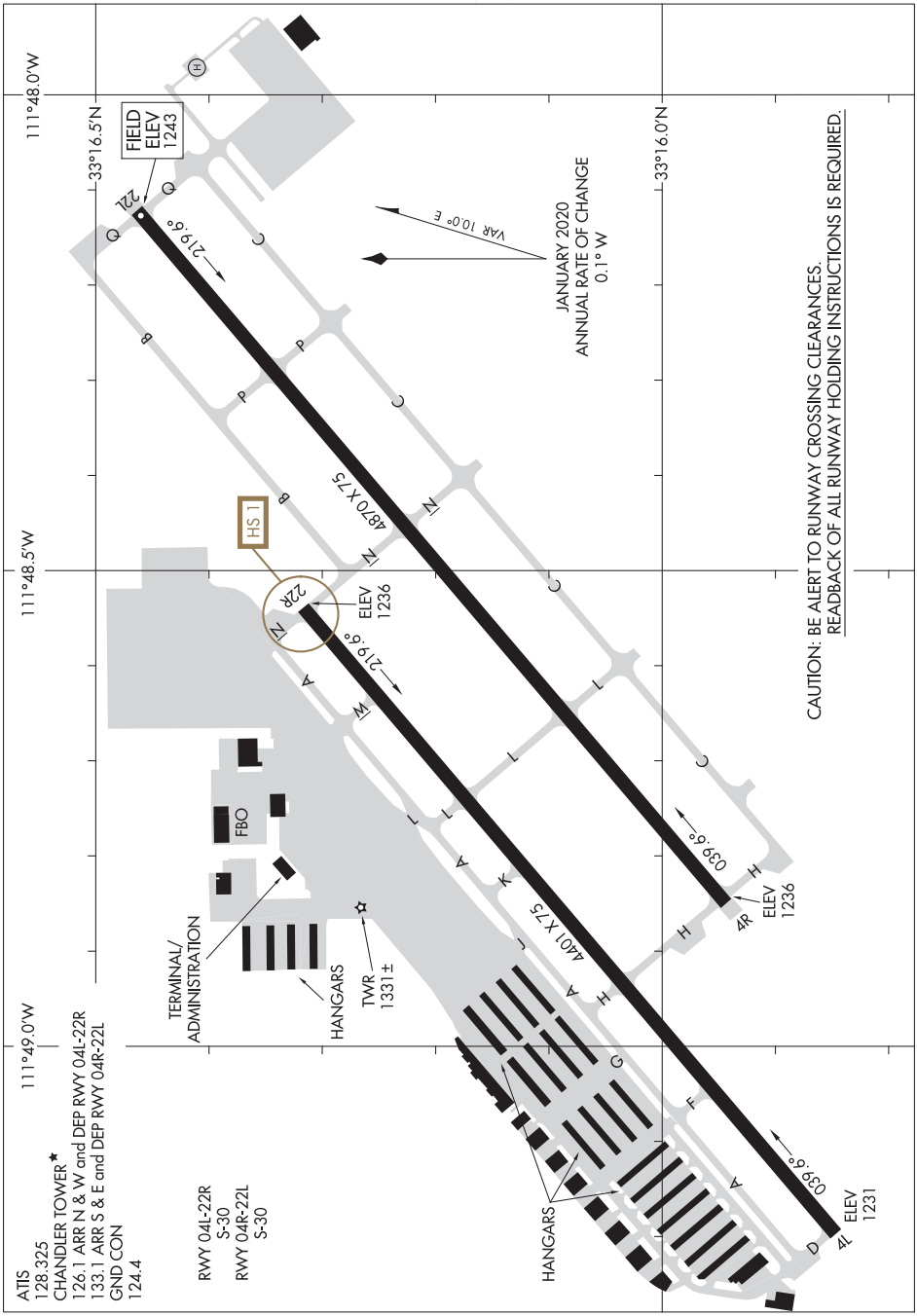
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA



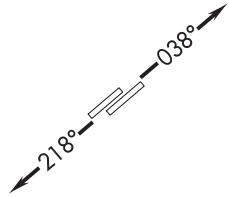
SW-4, 05 NOV 2020 to 31 DEC 2020

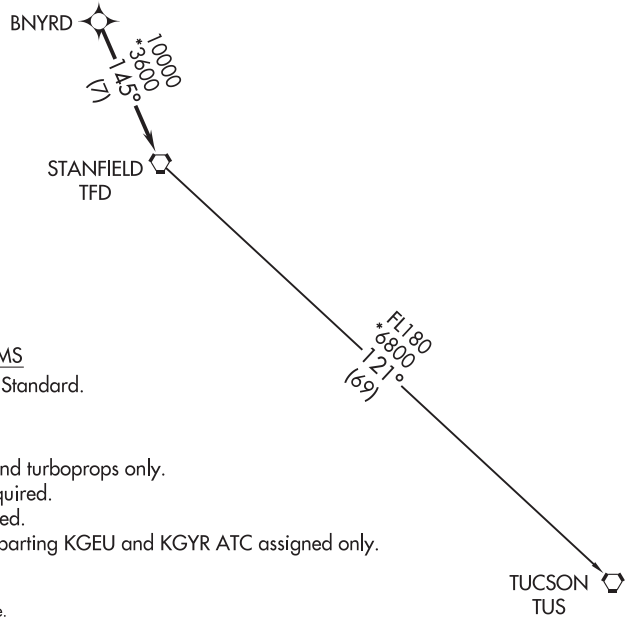
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
CHANDLER, ARIZONA
CHANDLER MUNI (CHD)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.325
GND CON
124.4
CHANDLER TOWER *
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0





TAKEOFF MINIMUMS
Rwys 4L/R, 22L/R: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

SW-4, 05 NOV 2020 to 31 DEC 2020

FTHLS SIX DEPARTURE (RNAV)

(FTHLS6.FTHLS) 24MAY18

CHANDLER, ARIZONA
CHANDLER MUNI (CHD)

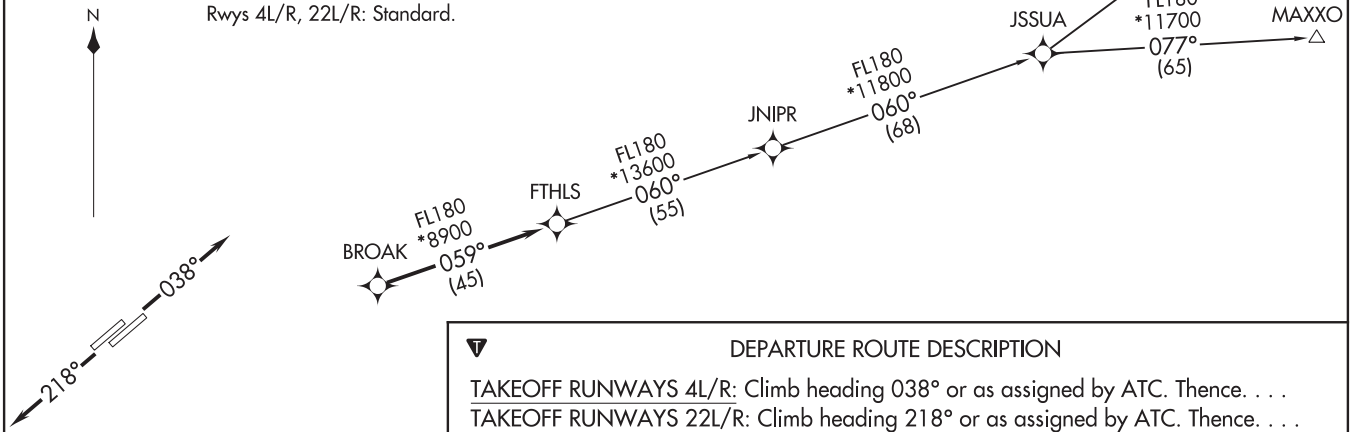
ATIS
128.325
GND CON
124.4
CHANDLER TOWER*
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC. Thence. . . .
TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)

JNIPR TRANSITION (FTHLS6.JNIPR)

MAXXO TRANSITION (FTHLS6.MAXXO)

NOTE: Chart not to scale.

(FTHLS6.FTHLS) 18144
FTHLS SIX DEPARTURE (RNAV)
CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

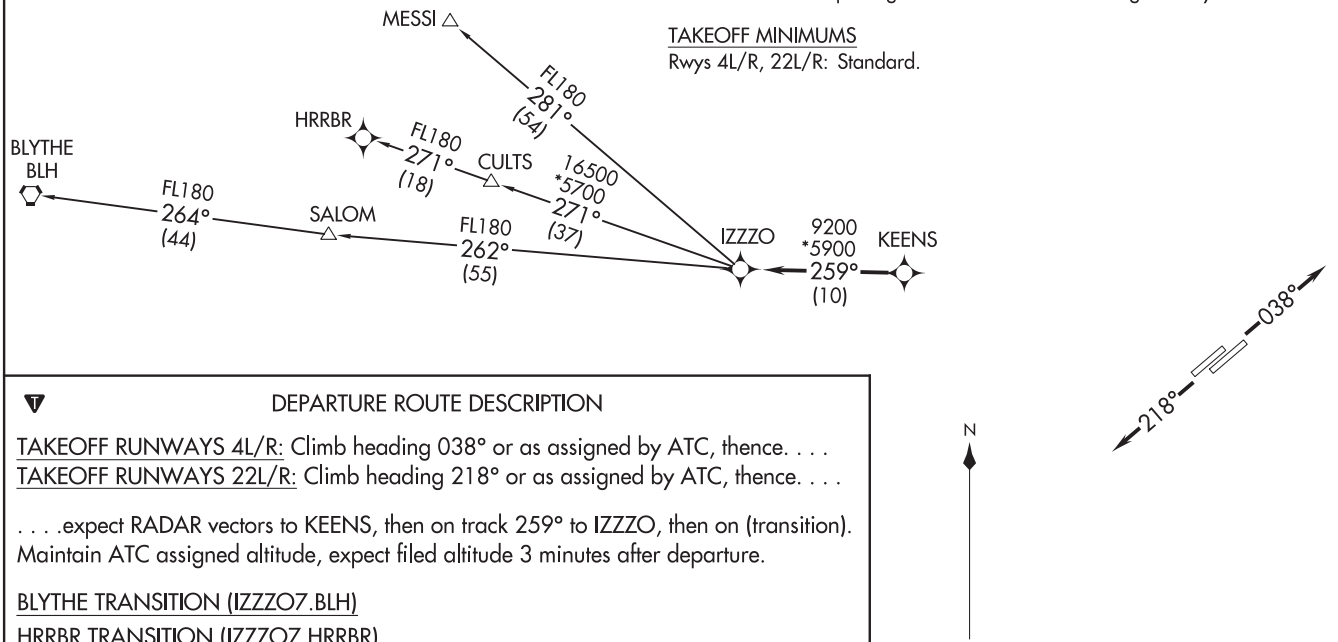
SW-4, 05 NOV 2020 to 31 DEC 2020

ATIS
128.325
GND CON
124.4
CHANDLER TOWER ★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 4L/R, 22L/R: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO7.BLH)

HRRBR TRANSITION (IZZZO7.HRRBR)

MESSI TRANSITION (IZZZO7.MESSI)

NOTE: Chart not to scale.

JUDTH SEVEN DEPARTURE (RNAV)

(JUDTH7.JUDTH) 24MAY18

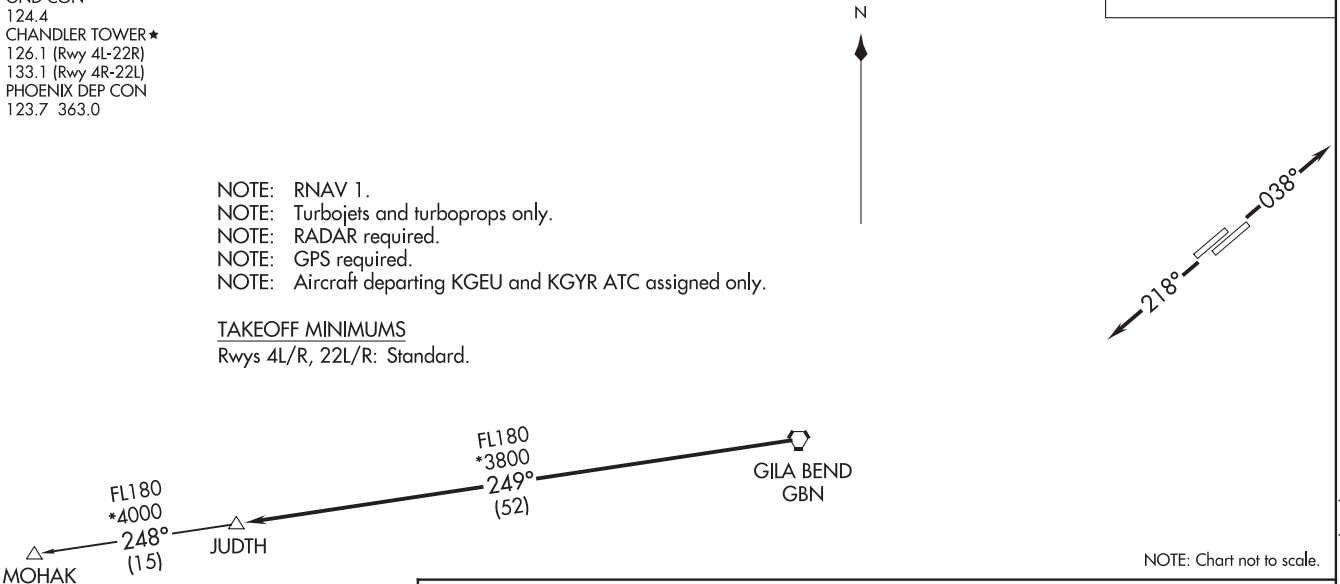
CHANDLER, ARIZONA
CHANDLER MUNI (CHD)

ATIS
128.325
GND CON
124.4
CHANDLER TOWER★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 4L/R, 22L/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

(JUDTH7.JUDTH) 18144
JUDTH SEVEN DEPARTURE (RNAV)
AL-6494 (FAA)
CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

ATIS
128.325
GND CON
124.4
CHANDLER TOWER★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC. Thence. . . .

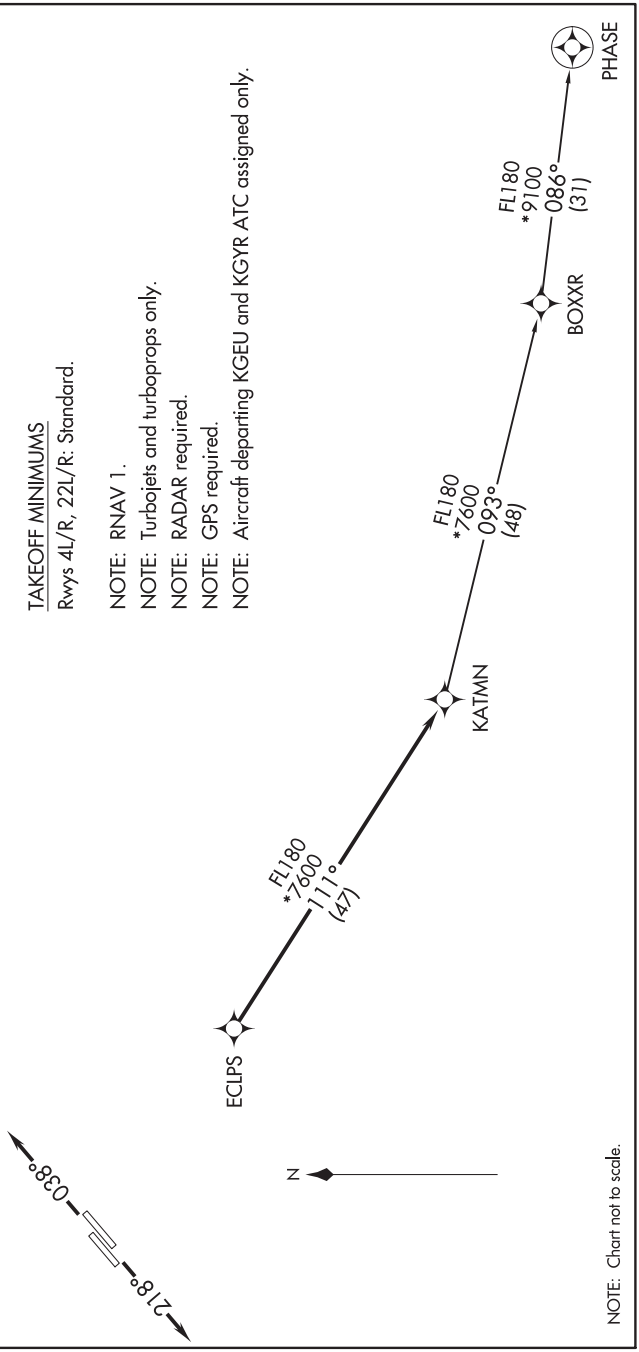
TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC. Thence. . . .

. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)

TAKEOFF MINIMUMS
Rwys 4L/R, 22L/R: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



NOTE: Chart not to scale.

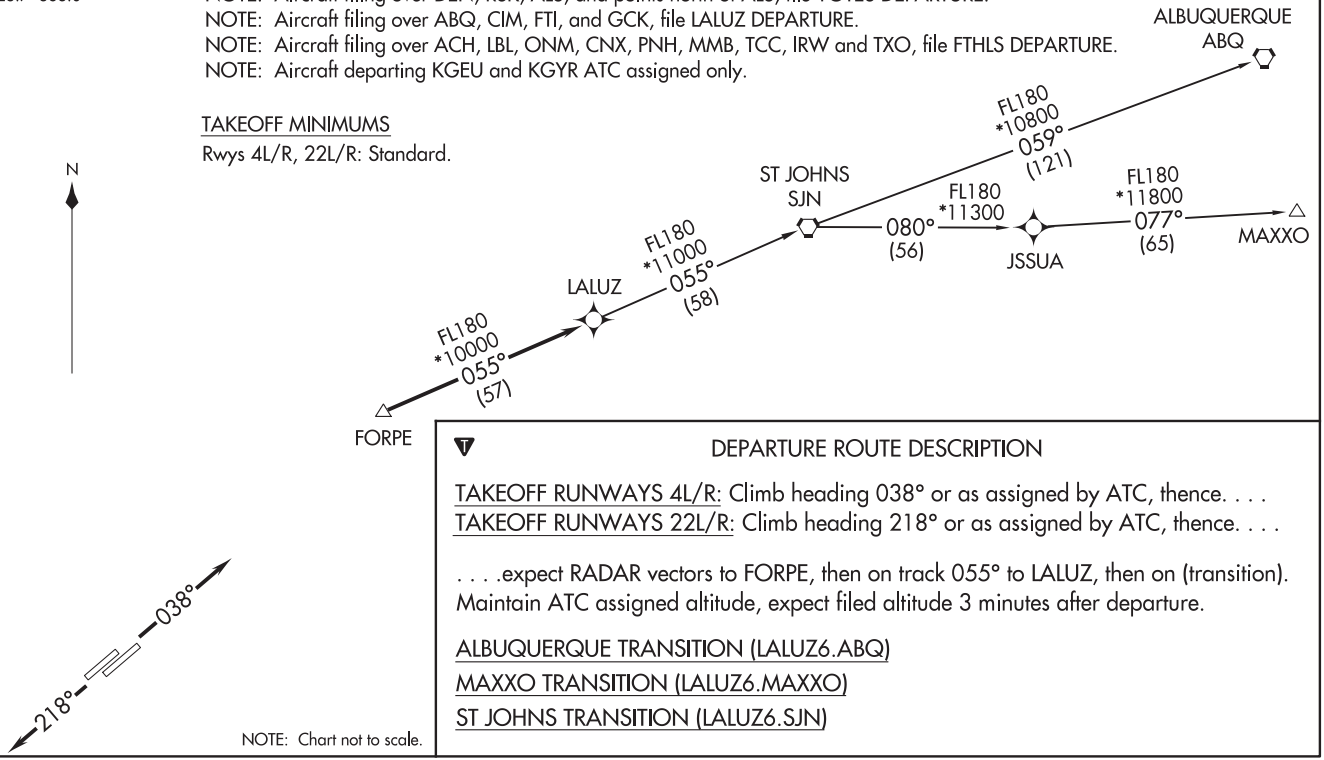
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.325
GND CON
124.4
CHANDLER TOWER ★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)

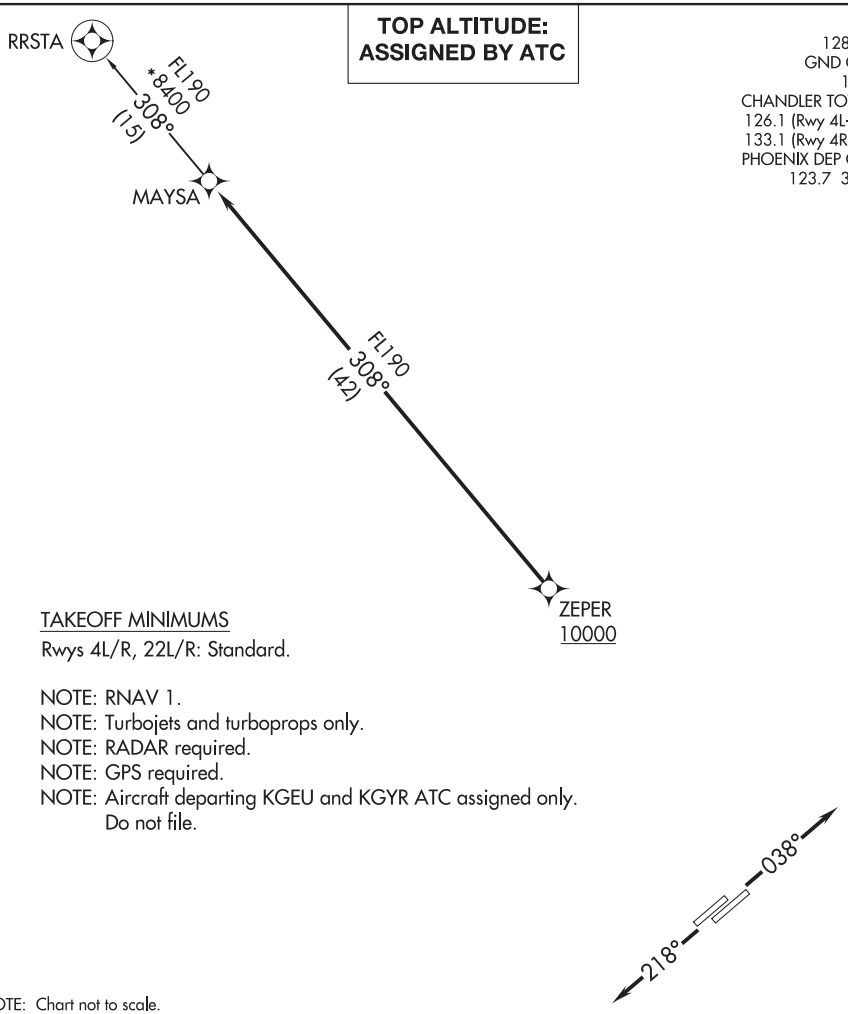
MAXXO TRANSITION (LALUZ6.MAXXO)

ST JOHNS TRANSITION (LALUZ6.SJN)

SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.325
GND CON
124.4
CHANDLER TOWER ★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0



TAKEOFF MINIMUMS
Rwys 4L/R, 22L/R: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
Do not file.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb on heading 038° or as assigned by ATC. Thence. . . .

TAKEOFF RUNWAYS 22L/R: Climb on heading 218° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(SNOBL6.SNOBL) 18144

SNOBL SIX DEPARTURE (RNAV)

AL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.325
GND CON
124.4
CHANDLER TOWER ★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

GRAND CANYON
GCN

342° (26) FL180 *9500

RIMMM

343° (10) FL180 *11500

LOFTS

343° (36) FL180 *11500

CARTL

343° (20) FL180 *9300

SNOBL

343° (20) 14600 *8100

QUAKY

FL180 *10700 043° (94)

FL180 *10700 050° (123)

YOOPR

JARPA

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL6.CARTL)

GRAND CANYON TRANSITION (SNOBL6.GCN)

JARPA TRANSITION (SNOBL6.JARPA)

RIMMM TRANSITION (SNOBL6.RIMMM)

YOOPR TRANSITION (SNOBL6.YOOPR)

038°

218°

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
128.325
GND CON
124.4
CHANDLER TOWER ★
126.1 (Rwy 4L-22R)
133.1 (Rwy 4R-22L)
PHOENIX DEP CON
123.7 363.0

GRAND CANYON
GCN

FL180
*14900
316°
(95)

YOOPR

FL180
*9400
016°
(70)

JARPA

FL180
*9500
033°
(92)

YOTES

FL180
*10300
021°
(44)

MRBIL

038°

218°

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L/R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

CHANDLER, ARIZONA

AL-6022 (FAA)

20310

VOR-A

STELLAR AIRPARK (P19)

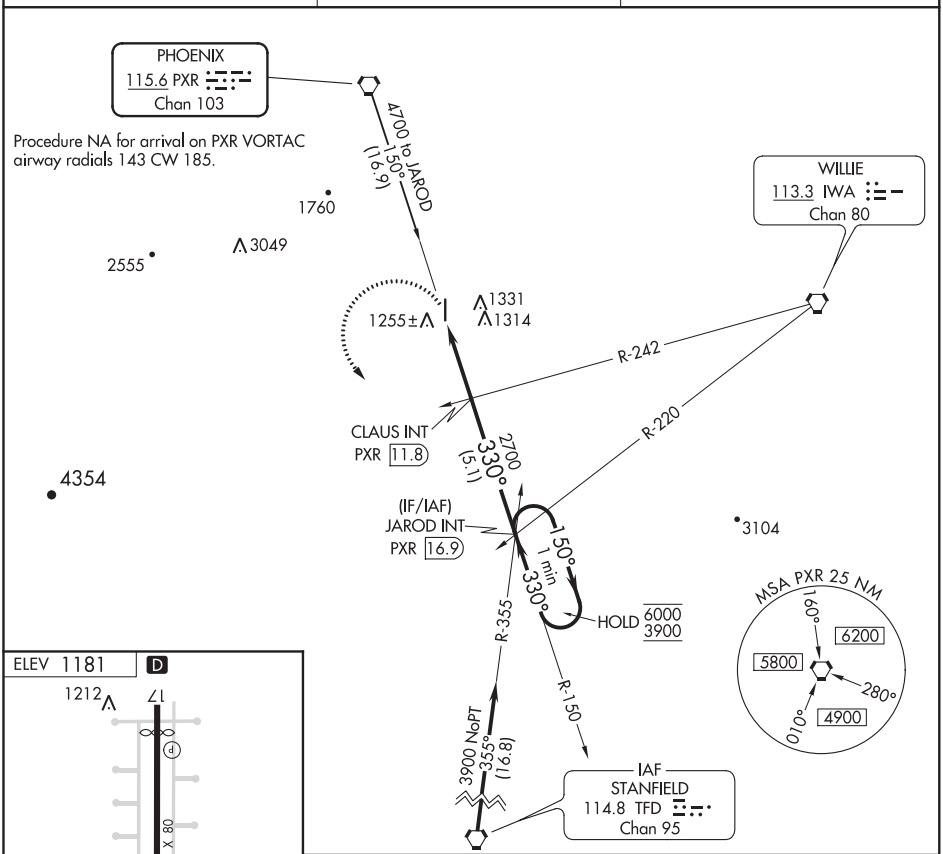
VORTAC PXR 115.6 Chan 103	APP CRS 330°	Rwy ldg N/A TDZE N/A Apt Elev 1181

T
A NA

Use Phoenix Sky Harbor Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 3900 on PXR VORTAC R-150 to JAROD Int/PXR 16.9 DME and hold.

PHX ASOS	PHOENIX APP CON	UNICOM
127.575	123.7 363.0	122.975 (CTAF) L



FAF to MAP 2.9 NM					
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

CATEGORY	A	B	C	D
CIRCLING	1680-1 499 (500-1)		1680-1½ 499 (500-1½)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

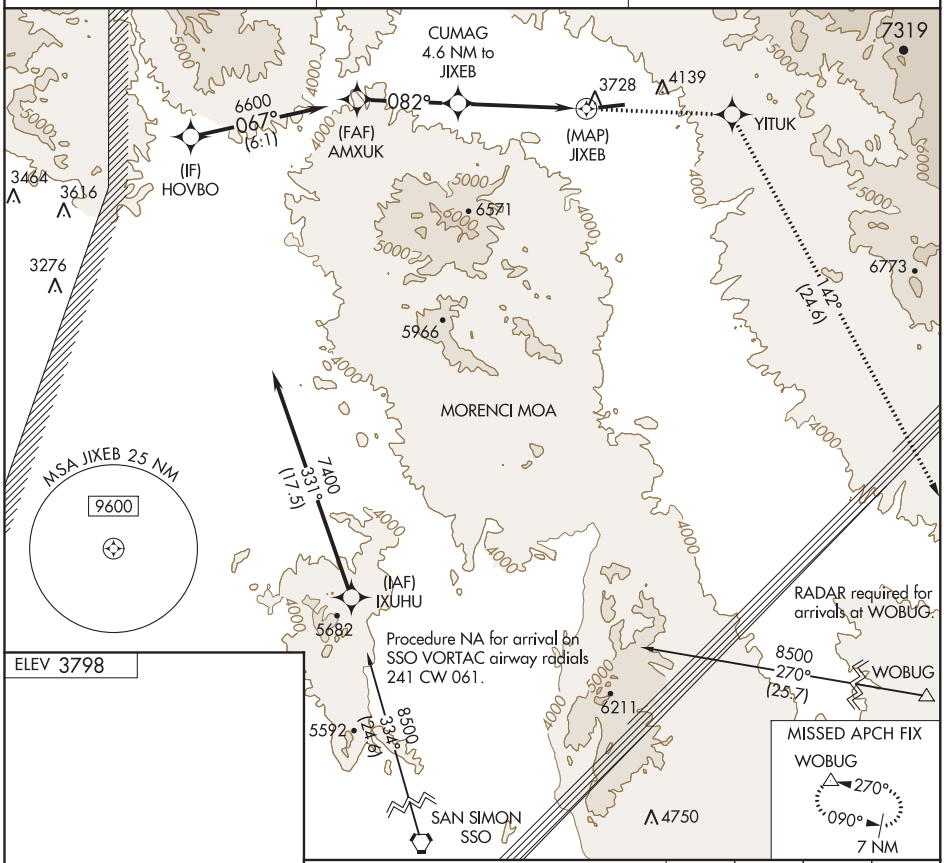
APP CRS	Rwy ldg	N/A
082°	TDZE	N/A
	Apt Elev	3798

RNAV (GPS)-A
GREENLEE COUNTY (CFT)

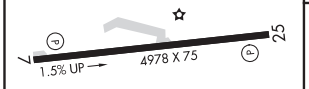
When VGSI inop, Circling Rwy 25 NA at night. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Safford altimeter setting and increase all MDA 140 feet. Rwy 25 helicopter visibility below 1 SM NA.

MISSED APPROACH: Climb to 9000 direct YITUK and on track 142° to WOBUG and hold.

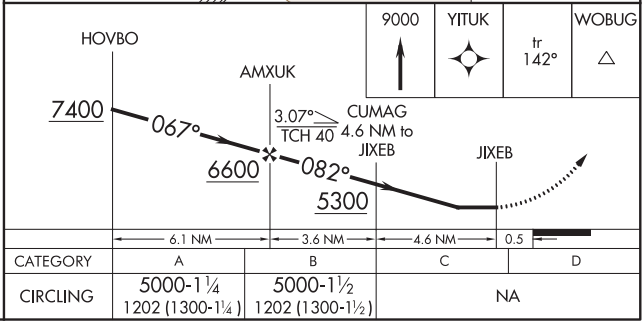
AWOS-3	ALBUQUERQUE APP CON	CTAF
119.05	134.45 327.15	122.9



ELEV 3798



MIRL Rwy 7-25



CATEGORY	A	B	C	D
CIRCLING	5000-1¼ 1202 (1300-1¼)	5000-1½ 1202 (1300-1½)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

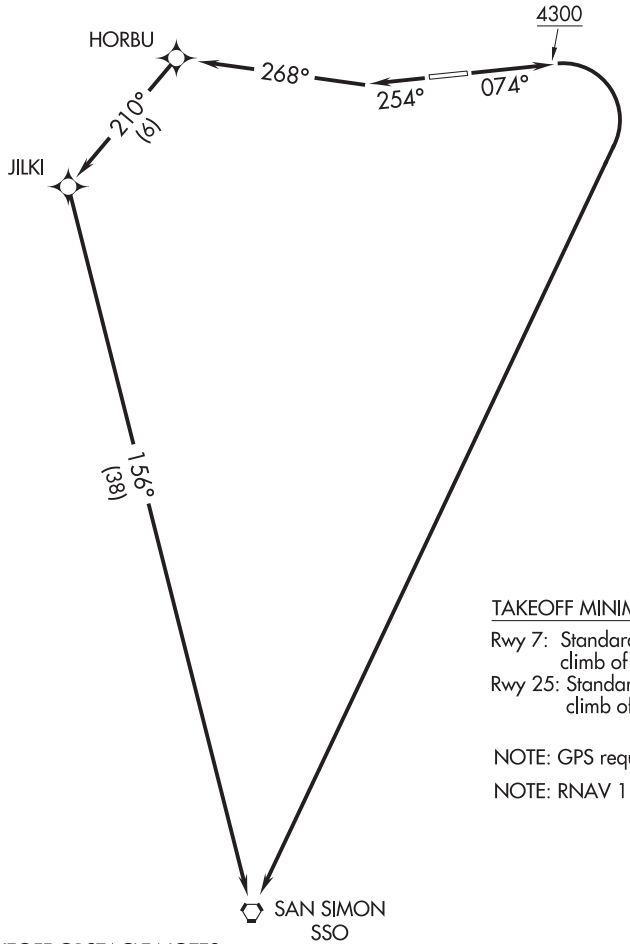
(SSO1.SSO) 16315

SL-9871 (FAA)

SAN SIMON ONE DEPARTURE (OBSTACLE) (RNAV)

GREENLEE COUNTY (CFT)
CLIFTON/MORENCI, ARIZONA

CTAF
122.9
ALBUQUERQUE CENTER
134.45 327.15



TAKEOFF MINIMUMS

Rwy 7: Standard with a minimum climb of 320′ per NM to 5100.
Rwy 25: Standard with a minimum climb of 310′ per NM to 5500.

NOTE: GPS required.

NOTE: RNAV 1

TAKEOFF OBSTACLE NOTES

Rwy 7: Multiple bushes, poles and transmission towers beginning 221′ from DER, 60′ left of centerline, up to 139′ AGL/4139′ MSL.
Rwy 25: Vehicles on road traversing northeast to southwest beginning 67′ from DER, up to 15′ AGL/3734′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb heading 074° to 4300, then climbing right turn to 8700 direct SSO VORTAC.

TAKEOFF RUNWAY 25: Climb to 8700 on heading 254° to intercept course 268° to HORBU and on track 210° to JILKI and on track 156° to SSO VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020

SAN SIMON ONE DEPARTURE (OBSTACLE) (RNAV)
CLIFTON/MORENCI, ARIZONA
GREENLEE COUNTY (CFT)
(SSO1.SSO) 29JUL10

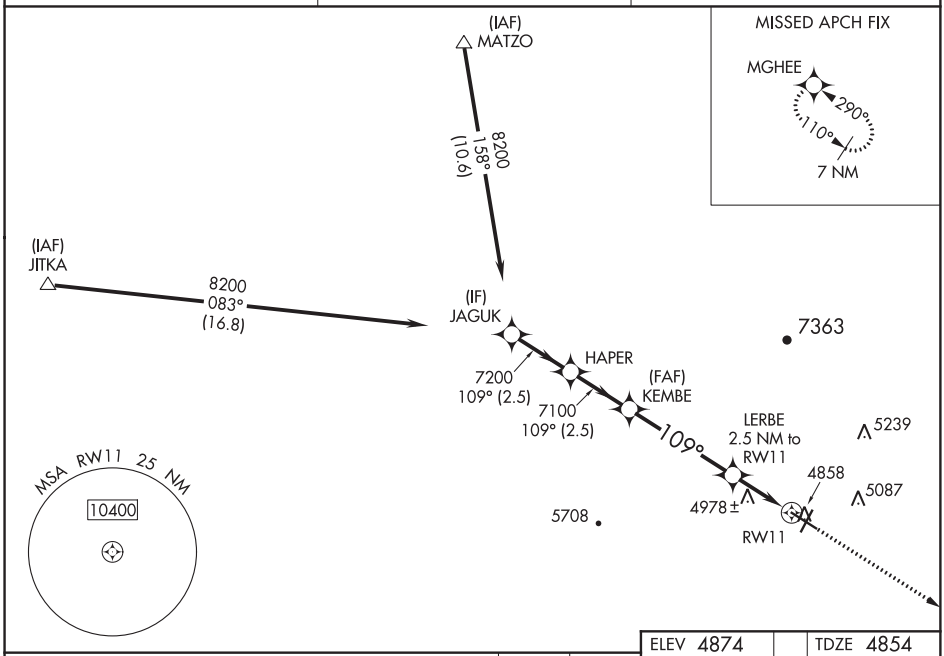
WAAS CH 86440 W11A	APP CRS 109°	Rwy ldg 6300 TDZE 4854 Apt Elev 4874

RNAV (GPS) RWY 11
COLORADO CITY MUNI (AZC)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 51°C (125°F). Circling NA for Cat D north of Rwy 11-29. DME/DME RNP-0.3 NA.

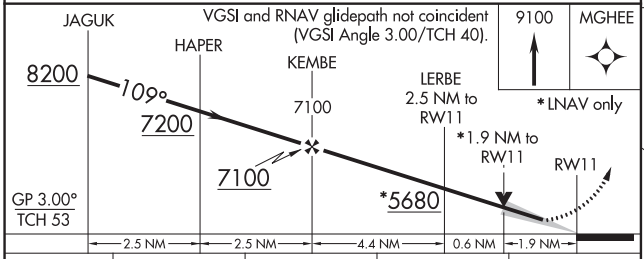
MISSED APPROACH: Climb to 9100 direct MGHEE and hold, continue climb-in-hold to 9100.
#Missed approach requires minimum climb of 240 feet per NM to 7500.

AWOS-3PT	LOS ANGELES CENTER	UNICOM
118.375	124.2 343.6	122.7 (CTAF) L



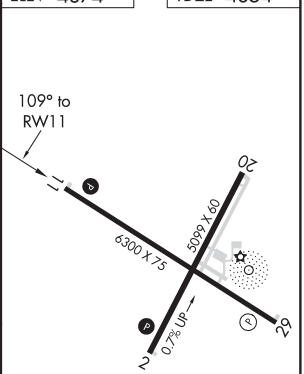
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
LPV DA#	5104-1 250 (300-1)			
LPV DA	5297-1½ 443 (500-1½)			
LNAV/VNAV DA	5463-2½ 609 (600-2½)			
LNAV MDA	5500-1 646 (700-1)		5500-1⅞ 646 (700-1⅞)	
C CIRCLING	5500-1 626 (700-1)	5520-1 646 (700-1)	6880-3 2006 (2100-3)	

ELEV 4874 TDZE 4854



REIL Rwy 11 L
REIL Rwy 29
MIRL Rwy 11-29 L
MIRL Rwy 2-20

COLORADO CITY, ARIZONA | AL-9194 (FAA) | 20086

WAAS CH 72740 W29A	APP CRS 290°	Rwy ldg 6300 TDZE 4855 Apt Elev 4874

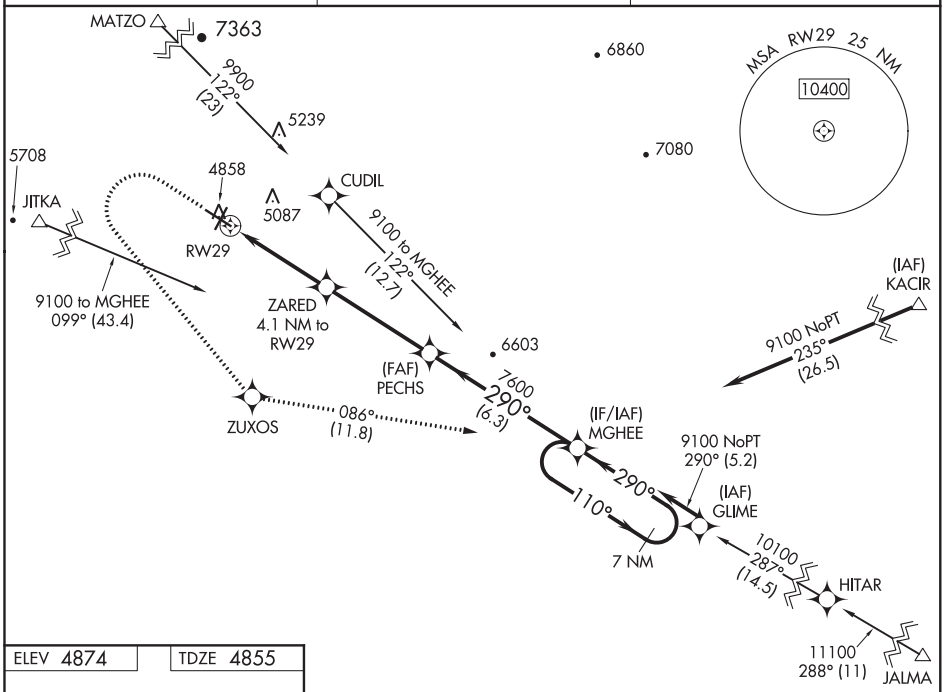
RNAV (GPS) RWY 29
COLORADO CITY MUNI (AZC)

RNP APCH.

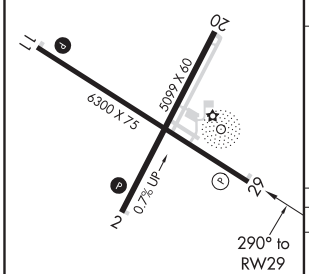
Baro-VNAV NA. Circling NA for Cat D north of Rwy 11-29.

MISSED APPROACH: Climb to 6600 then climbing left turn to 9100 direct ZUXOS and track 086° to MGHEE and hold.

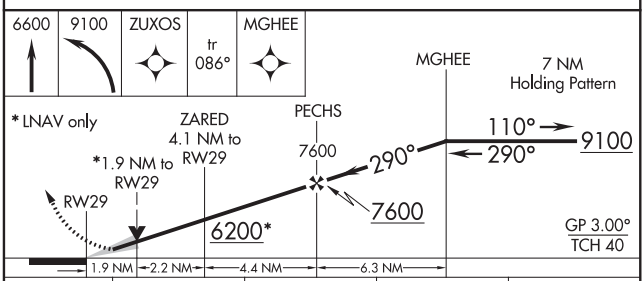
AWOS-3PT	LOS ANGELES CENTER	UNICOM
118.375	124.2 343.6	122.7 (CTAF) L



ELEV 4874 | TDZE 4855



REIL Rwy 11 L
REIL Rwy 29
MIRL Rwy 11-29 L
MIRL Rwy 2-20



CATEGORY	A	B	C	D
LPV DA	5105-1 250 (300-1)			
LNAV/VNAV DA	5157-1 302 (300-1)			
LNAV MDA	5500-1 645 (700-1)		5500-1⅞ 645 (700-1⅞)	
C CIRCLING	5500-1 626 (700-1)	5520-1 646 (700-1)	6880-3 2006 (2100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

NDB AZC 403	APP CRS 330°	Rwy ldg N/A TDZE N/A Apt Elev 4874

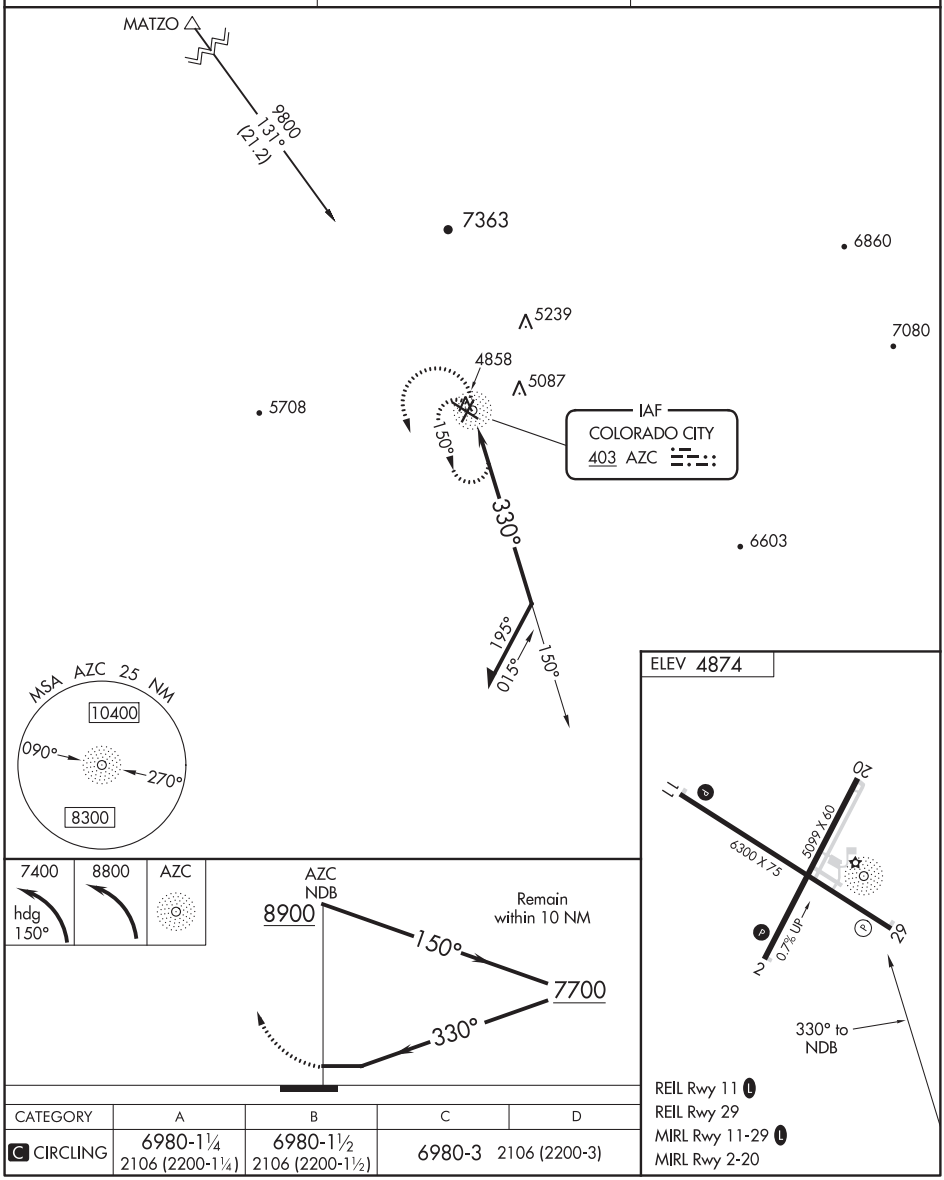
NDB-A
COLORADO CITY MUNI (AZC)

T
A NA

Circling NA for Cat D north of Rwy 11-29.

MISSED APPROACH: Climbing left turn to 7400 on heading 150° then climbing left turn to 8800 direct AZC NDB and hold, continue climb-in-hold to 8800.

AWOS-3PT	LOS ANGELES CENTER	UNICOM
118.375	124.2 343.6	122.7 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	6980-1¼ 2106 (2200-1¼)	6980-1½ 2106 (2200-1½)	6980-3 2106 (2200-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

COOLIDGE, ARIZONA | AL-9213 (FAA) | 20282

GPS RWY 23
COOLIDGE MUNI (P08)

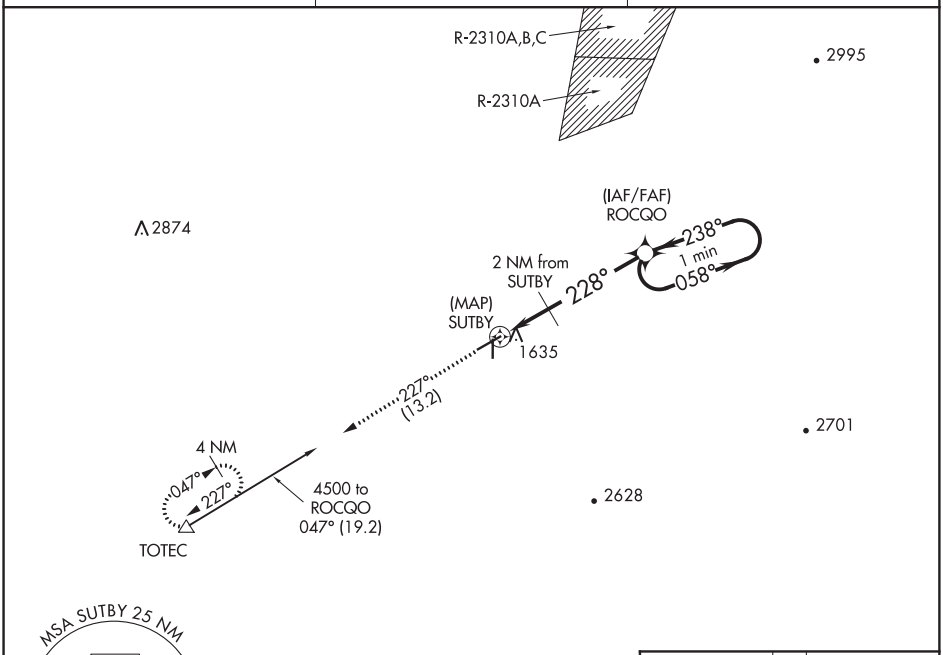
APP CRS	Rwy ldg	5564
228°	TDZE	1574
	Apt Elev	1576

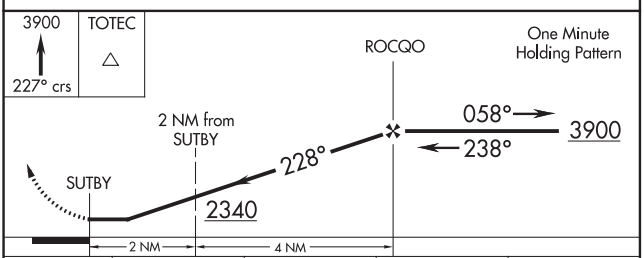
Circling Rwys 17-35 NA at night. When local altimeter setting not received, use Casa Grande altimeter setting and increase all MDAs 60 feet.

NA

MISSED APPROACH: Climb to 3900 via 227° course to TOTEC and hold.

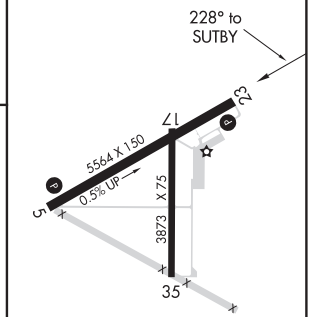
AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
119.350	125.4 269.3	123.075 (CTAF) L





CATEGORY	A	B	C	D
S-23	2060-1	486 (500-1)	NA	
C CIRCLING	2100-1	524 (600-1)	NA	

ELEV 1576 | TDZE 1574



MIRL Rwys 5-23 and 17-35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC TFD 114.8 Chan 95	APP CRS 071°	Rwy ldg 5564 TDZE 1564 Apt Elev 1576

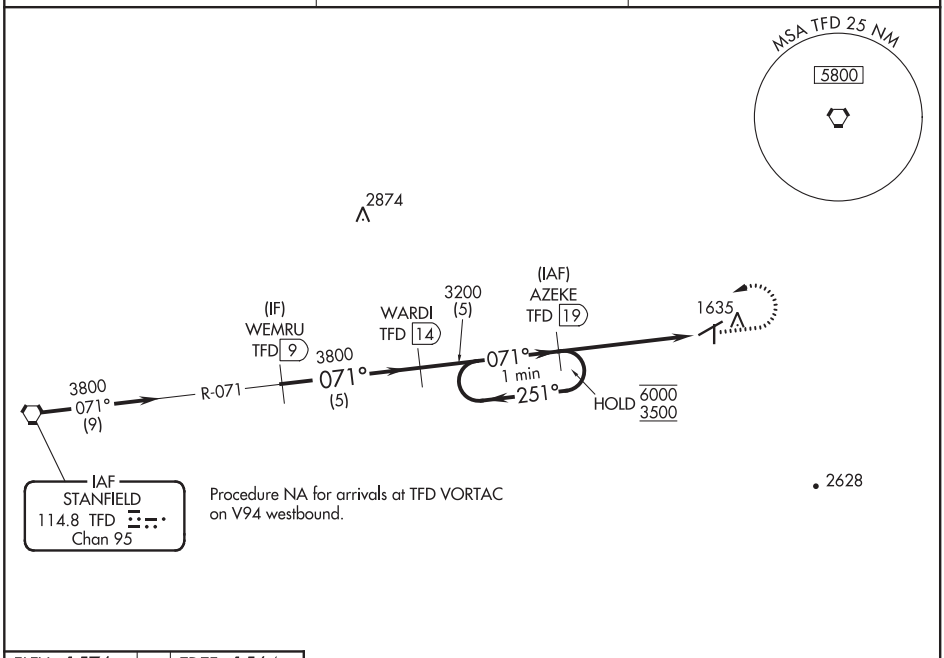
VOR RWY 5
COOLIDGE MUNI (P08)

DME required.

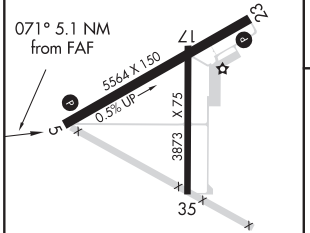
Circling Rwy 17-35 NA at night.

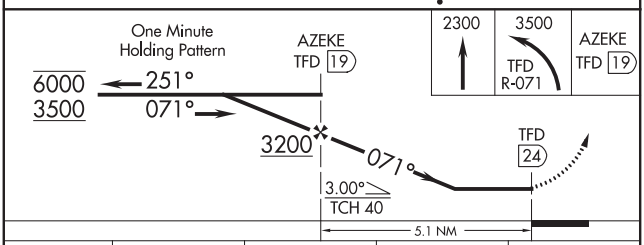
MISSED APPROACH: Climb to 2300 then climbing left turn to 3500 on TFD VORTAC R-071 to AZEKE/19 DME and hold.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
119.350	125.4 269.3	123.075 (CTAF) L



ELEV 1576 TDZE 1564





CATEGORY	A	B	C	D
S-5	2200-1	636 (700-1)	NA	
C CIRCLING	2200-1	624 (700-1)	NA	

MIRL Rwys 5-23 and 17-35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

COTTONWOOD, ARIZONA | AL-9872 (FAA) | 20086

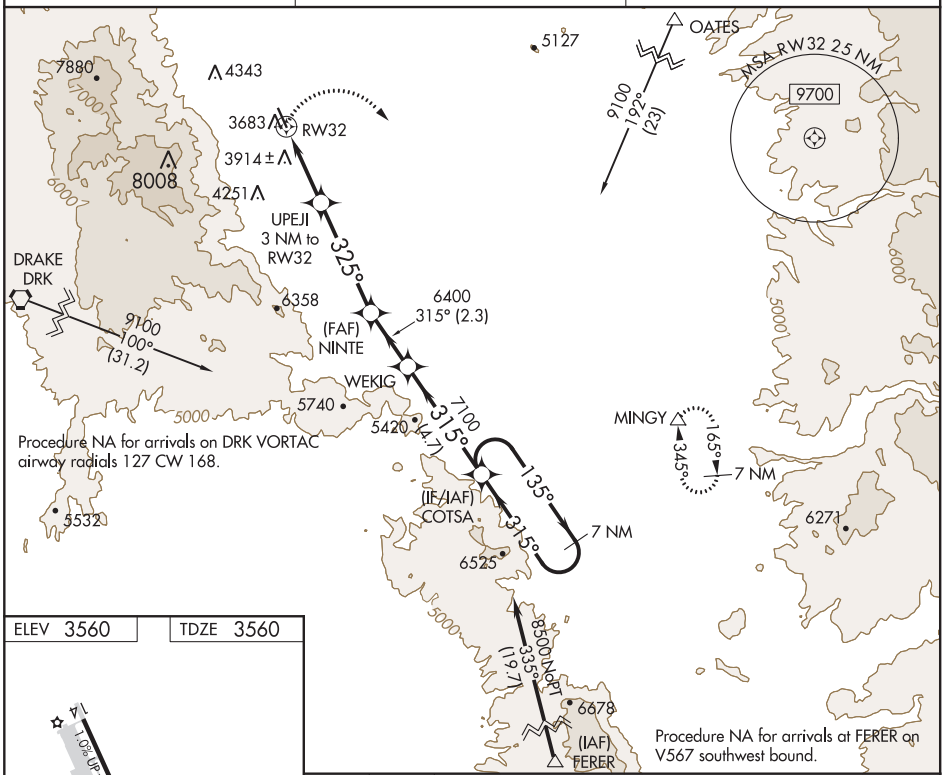
APP CRS	Rwy ldg	4252
325°	TDZE	3560
	Apt Elev	3560

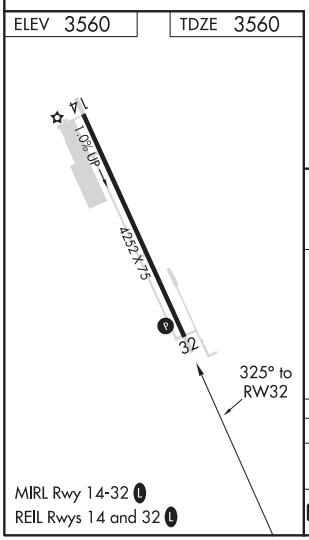
RNAV (GPS) RWY 32
COTTONWOOD (P52)

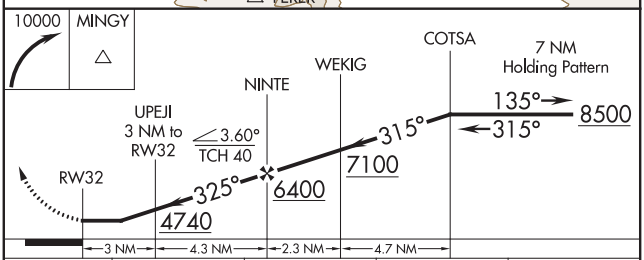
T A NA — Circling NA southwest of Rwy 14-32. DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Sedona altimeter setting and increase all MDA 200 feet, increase LNAV and Circling Cat A/B visibility ¼ mile, LNAV Cat C visibility ½ mile, Circling Cat C visibility ¾ mile.

MISSED APPROACH: Climbing right turn to 10000 direct MINGY and hold, continue climb-in-hold to 10000.

AWOS-3	PHOENIX APP CON	UNICOM
119.925	126.375 236.775	122.7 (CTAF) L







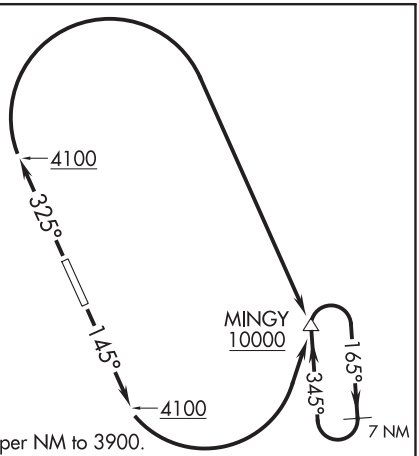
CATEGORY	A	B	C	D
LNAV MDA	4260-1 700 (700-1)		4260-2 700 (700-2)	NA
C CIRCLING	4260-1 700 (700-1)		4260-2 700 (700-2)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

MINGY ONE DEPARTURE (OBSTACLE) (RNAV)

AWOS-3
119.925
CTAF
122.7
PRESCOTT RADIO
122.3
PHOENIX DEP CON
126.375 236.775



NOTE: RNAV-1.
NOTE: GPS required.

TAKEOFF MINIMUMS
Rwy 14: 300-1½ or standard with minimum climb of 225′ per NM to 3900.
Rwy 32: Standard with minimum climb of 310′ per NM to 6000.

TAKEOFF OBSTACLE NOTES
Rwy 14: Utility 11′ from DER, 113′ left of centerline, 5′ AGL/3563′ MSL.
Vehicles on road beginning 14′ from DER, left to right of centerline, up to 15′ AGL/3588′ MSL.
Tree 157′ from DER, 82′ right of centerline, 11′ AGL/3572′ MSL.
Trees beginning 172′ from DER, 80′ right of centerline, up to 17′ AGL/3588′ MSL.
Trees and building beginning 184′ from DER, 138′ left of centerline, up to 32′ AGL/3581′ MSL.
Trees beginning 272′ from DER, 81′ right of centerline, up to 12′ AGL/3592′ MSL.
Buildings beginning 377′ from DER, 287′ left of centerline, up to 32′ AGL/3578′ MSL.
Trees beginning 403′ from DER, 73′ right of centerline, up to 23′ AGL/3596′ MSL.
Trees and fences beginning 538′ from DER, 150′ right of centerline, up to 20′ AGL/3600′ MSL.
Trees, buildings and tank beginning 995′ from DER, 307′ right of centerline, up to 20′ AGL/3618′ MSL.
Trees and buildings beginning 1277′ from DER, 6′ right of centerline, up to 54′ AGL/3631′ MSL.
Tree 1791′ from DER, 105′ left of centerline, 42′ AGL/3605′ MSL.
Trees beginning 1807′ from DER, 8′ right of centerline, up to 59′ AGL/3638′ MSL.
Trees beginning 2636′ from DER, 689′ right of centerline, up to 65′ AGL/3645′ MSL.
Trees beginning 3296′ from DER, 1298′ right of centerline, up to 75′ AGL/3770′ MSL.
Tree 1.3 NM from DER, 2071′ right of centerline, 39′ AGL/3759′ MSL.
Rwy 32: Utility box 10′ from DER, 75′ right of centerline, 4′ AGL/3522′ MSL.
Buildings and fence beginning 37′ from DER, 167′ left of centerline, up to 17′ AGL/3543′ MSL.
Tree 54′ from DER, 501′ right of centerline, 39′ AGL/3544′ MSL.
Trees, pole and building beginning 74′ from DER, 253′ right of centerline, up to 46′ AGL/3551′ MSL.
Tower, poles, trees, fences and vehicles on road beginning 128′ from DER, 168′ left of centerline, up to 67′ AGL/3597′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 14: Climb heading 145° to 4100, then climbing left turn direct MINGY, thence . . .
TAKEOFF RUNWAY 32: Climb heading 325° to 4100, then climbing right turn direct MINGY, thence . . .
. . . continue climb in MINGY holding pattern to cross MINGY at or above 10000 before proceeding on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA

19087

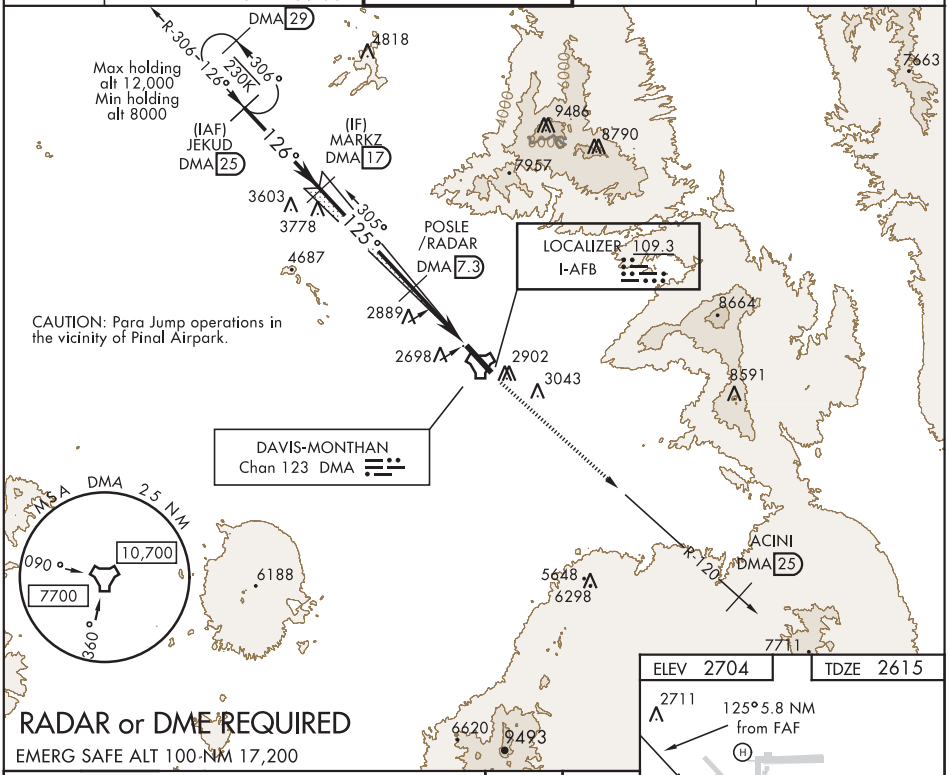
ILS or LOC Y RWY 12

LOC I-AFB	APCH CRS	Rwy ldg 13,643 TDZE 2615 Arpt Elev 2704	AL-429 [USAF]	DAVIS-MONTHAN AFB (KDMA)
109.3	125°			

* Circling not authorized S of Rwy 12-30.

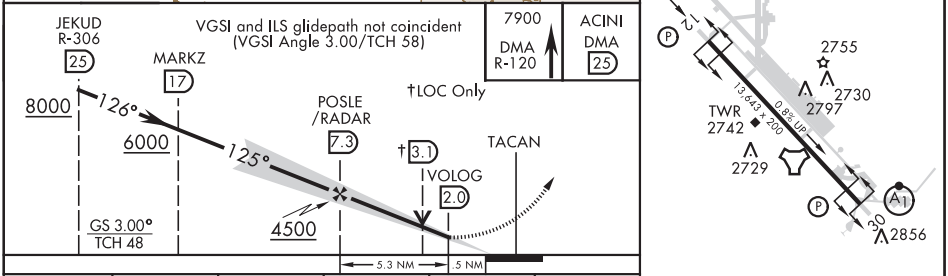
MISSED APPROACH: Climbing to 7900 intercept DMA TACAN R-120 to ACINI. Expect RADAR vectors.

ATIS*	TUCSON APP CON	DAVIS-MONTHAN TOWER	GND CON	CLNC DEL
270.1	066°-274° 119.4 318.1 275°-065° 125.1 269.55	118.85 253.5	121.8 275.8	121.8 275.8



RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 17,200



CATEGORY	A	B	C	D	E
S-ILS 12	2865/40 250 (200-¾)				
S-LOC 12	3160/55 545 (500-1)		3160-1⅝ 545 (500-1⅝)		
C CIRCLING*	3220-1 516 (600-1)	3240-1 536 (600-1)	3320-1¾ 616 (700-1¾)	3360-2 656 (700-2)	3440-2½ 736(800-2½)

REIL Rwy 12
HIRL Rwy 12-30

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

TUCSON, ARIZONA 32°10′N-110°53′W DAVIS-MONTHAN AFB (KDMA)

Amdt 1 28MAR19

ILS or LOC Y RWY 12

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA

ILS or LOC Y RWY 30

DAVIS-MONTHAN AFB (KDMA)

LOC I-DMA	APCH CRS	Rwy ldg 13,643 TDZE 2704 Arpt Elev 2704
109.3	305°	

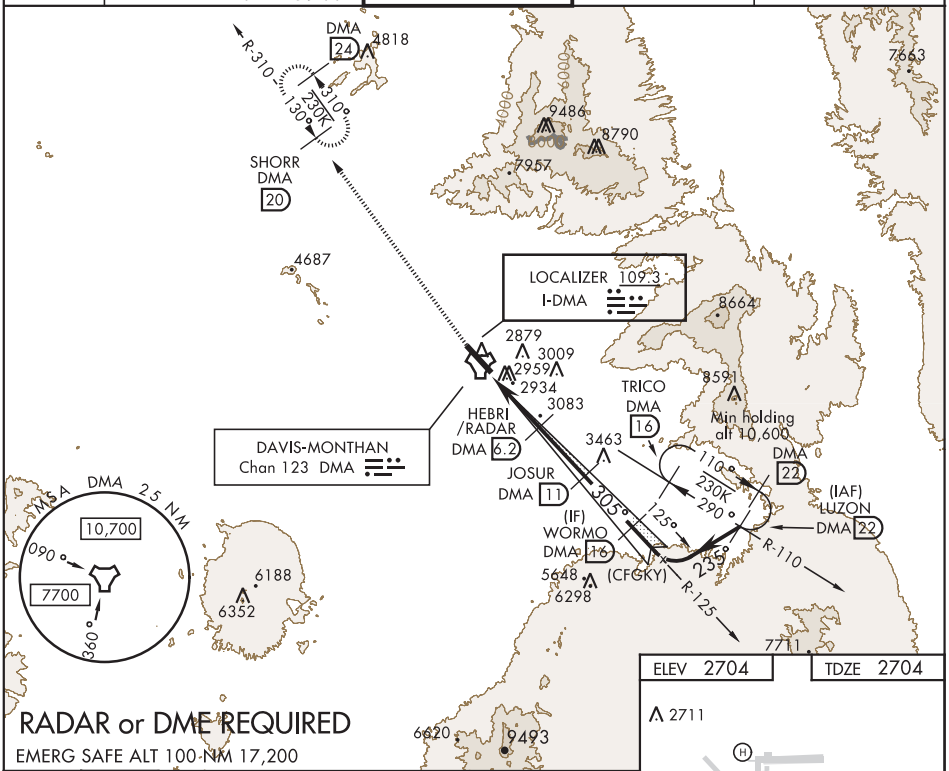
AL-429 [USAF]

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1¾ miles.
** Circling not authorized S of Rwy 12-30.

ALSF-1

MISSED APPROACH: Climb to 7200, intercept DMA TACAN R-310 to SHORR and hold.

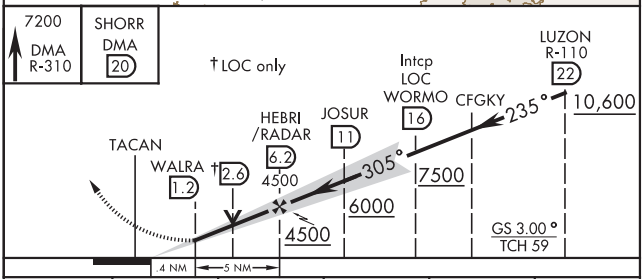
ATIS★	TUCSON APP CON	DAVIS-MONTHAN TOWER	GND CON	CLNC DEL
270.1	066°-274° 119.4 318.1 275°-065° 125.1 269.55	118.85 253.5	121.8 275.8	121.8 275.8

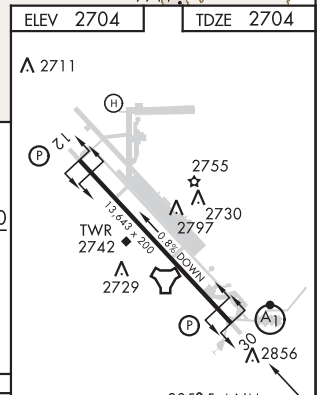


SW-4, 05 NOV 2020 to 31 DEC 2020

RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 17,200





REIL Rwy 12
HIRL Rwy 12-30

CATEGORY	A	B	C	D	E
S-ILS 30	2954/40 250 (300-¾)				
S-LOC 30 *	3340/24 636 (700-½)		3340-1⅜ 636 (700-1⅜)		
CIRCLING**	3340-1 636 (700-1)		3340-1¾ 636 (700-1¾)	3360-2 656 (700-2)	3440-2½ 736(800-2½)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

TUCSON, ARIZONA
Amdt 8 28MAR19

32°10′N-110°53′W

DAVIS-MONTHAN AFB (KDMA)

ILS or LOC Y RWY 30

20282

TUCSON, ARIZONA

RNAV (GPS) RWY 12

WAAS CH **44576** **W12A**	APCH CRS **125°**	Rwy ldg **13,643** TDZE **2615** Arpt Elev **2704**

AL-429 (USAF)

DAVIS MONTHAN AFB (KDMA)

* Circling NA SW of Rwy 12-30.

MISSED APPROACH: Climb to 3300 then cimbing left turn to 8000 direct BINTT, track 305° to JAMRR and hold, continue climb-in-hold to 8000.

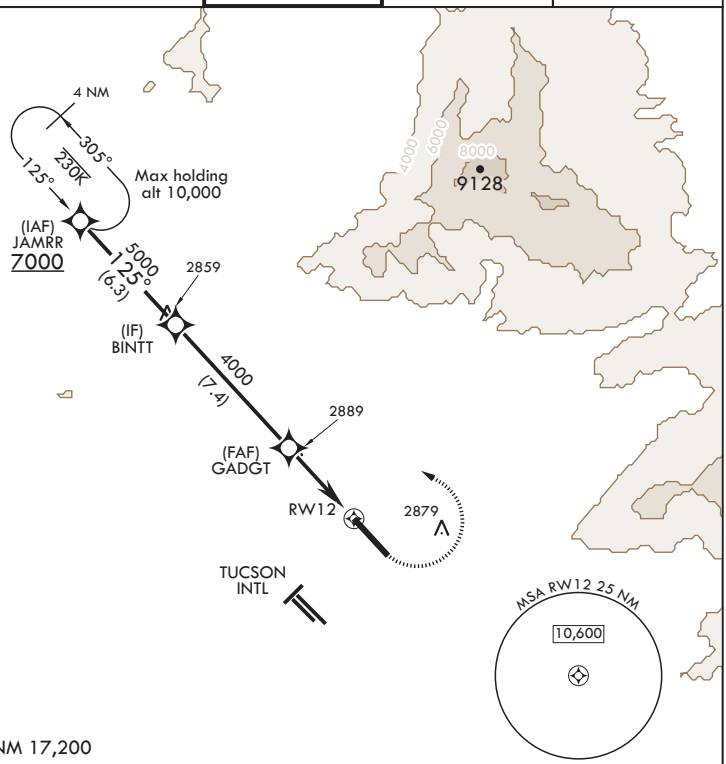
ATIS★	TUCSON APP CON/DEP CON	TOWER	GND CON	CLNC DEL
270.1	**119.4 269.55**	**118.85 253.5**	**121.8 275.8**	**121.8 275.8**

RNP APCH

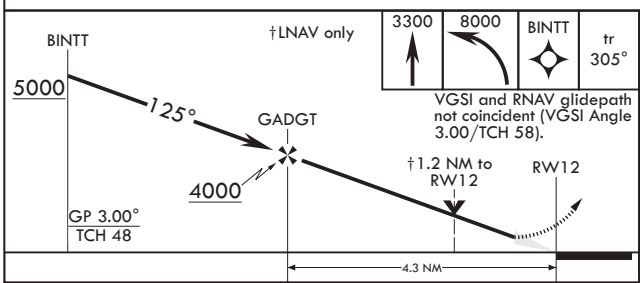
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C or above 54°C.

Average Cold Temperature based on Standard -30.00°C ISA deviation.

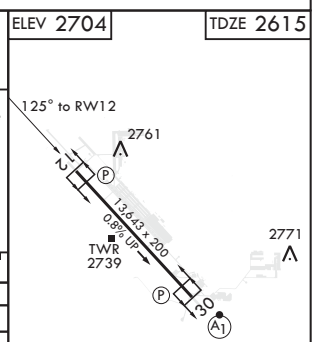
CAUTION: Para Jump operations in the vicinity of Pinal Airpark.



EMERG SAFE ALT 100 NM 17,200



ELEV 2704 TDZE 2615



CATEGORY	A	B	C	D
LPV DA	2815/40 200 (200-¾)			
LNAV/VNAV DA	2893/45 278 (200-⅞)	2904/45 289 (200-⅞)	2912/45 297 (300-⅞)	2923/45 308 (300-⅞)
LNAV MDA	3020/55 405 (400-1)		3020/60 405 (400-1¼)	
C CIRCLING*	3200-1 496 (500-1)		3320-1¾ 616 (700-1¾)	3320-2 616 (700-2)

REIL Rwy 12
HIRL all Rwys

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA

RNAV (GPS) RWY 30

AL-429 (USAF)

DAVIS MONTHAN AFB (KDMA)

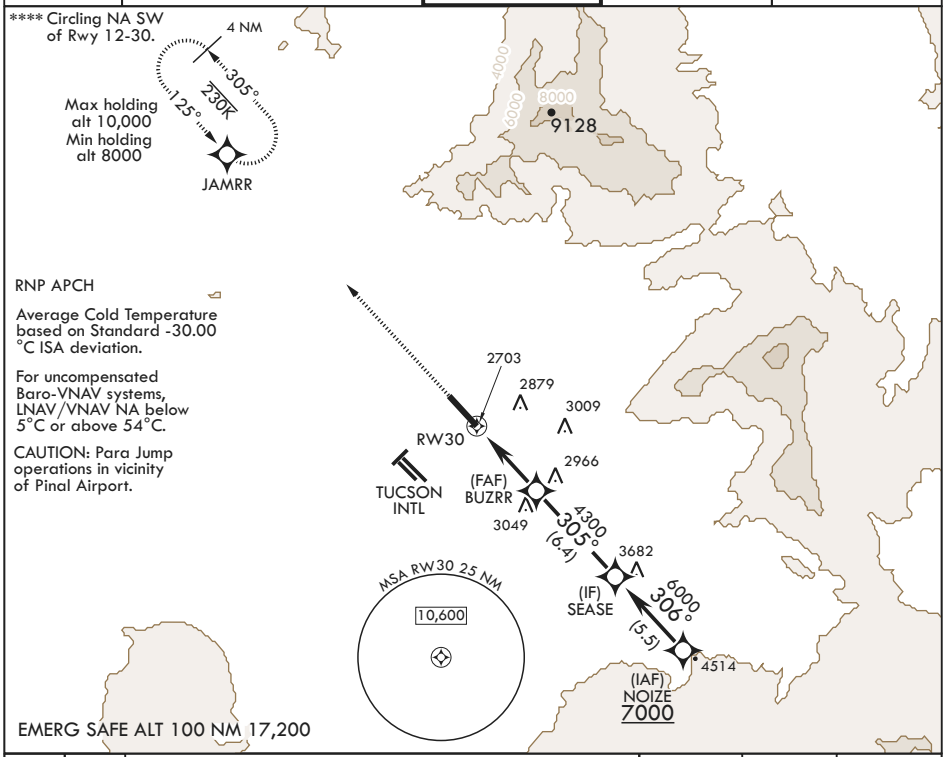
WAAS CH 91450 W30A	APCH CRS 305°	Rwy ldg 13,643 TDZE 2704 Arpt Elev 2704

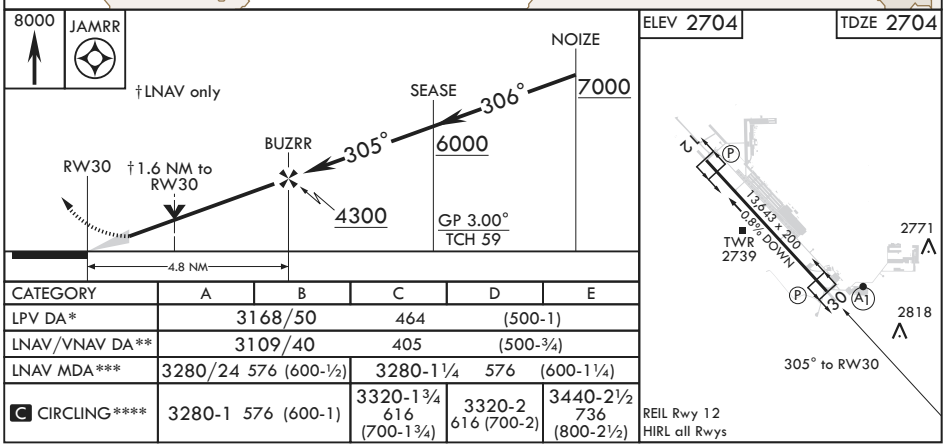
* When ALS inop increase vis to 1 3/8 miles.
** When ALS inop, increase RVR to 60, vis to 1 1/8 miles.
*** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1 5/8 miles.

ALSF-1

MISSED APPROACH: Climb to 8000 direct JAMMR and hold, continue climb-in-hold to 8000.

ATIS★	TUCSON APP CON/DEP CON	TOWER	GND CON	CLNC DEL
270.1	119.4 269.55	118.85 253.5	121.8 275.8	121.8 275.8





CATEGORY	A	B	C	D	E
LPV DA*	3168/50		464	(500-1)	
LNAV/VNAV DA**	3109/40		405	(500-¾)	
LNAV MDA***	3280/24 576 (600-½)		3280-1¼ 576 (600-1¼)		
C CIRCLING****	3280-1 576 (600-1)		3320-1¾ 616 (700-1¾)	3320-2 616 (700-2)	3440-2½ 736 (800-2½)

TUCSON, ARIZONA

Orig 10SEP20

32°10'N - 110°53'W

DAVIS MONTHAN AFB (KDMA)

RNAV (GPS) RWY 30

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA

19087

TACAN Y RWY 12

TACAN DMA Chan 123	APCH CRS 130°	Rwy ldg 13,643 TDZE 2615 Arpt Elev 2704

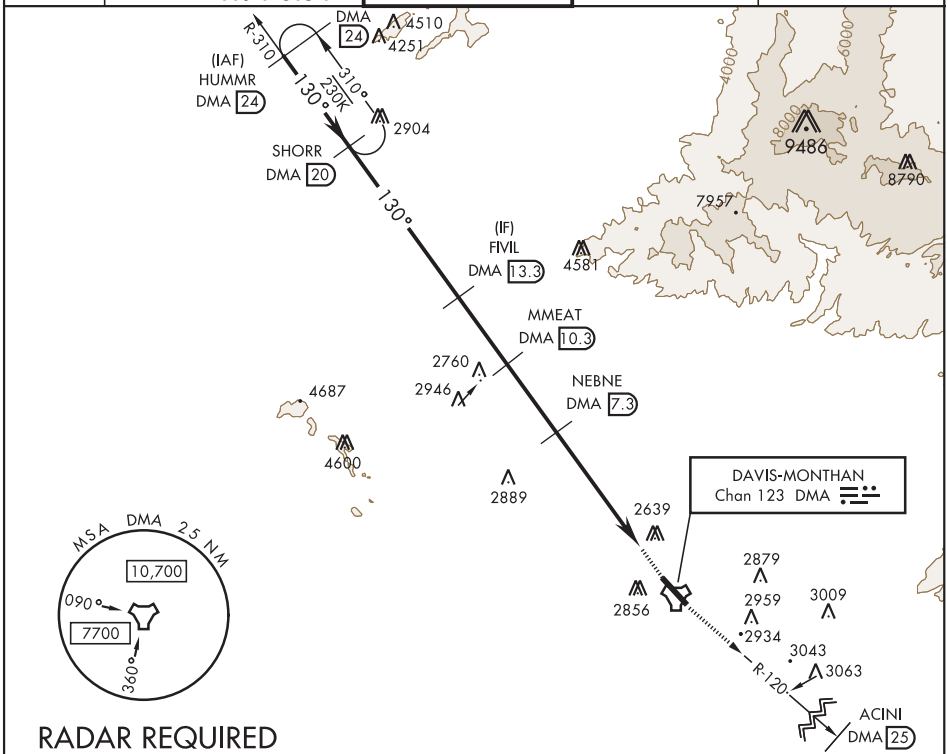
AL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

* Circling not authorized S of Rwy 12-30.

MISSED APPROACH: Climing to 7900 intercept DMA TACAN R-120 to ACINI. Expect RADAR vectors.

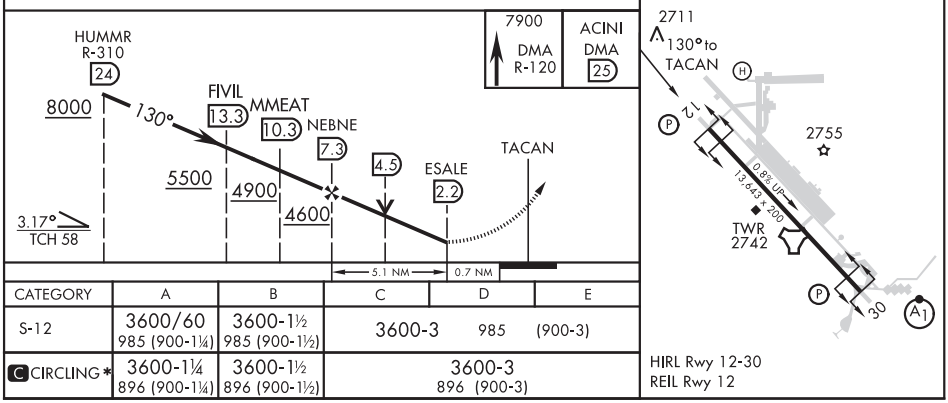
ATIS *	TUCSON APP CON	DAVIS-MONTHAN TOWER	GND CON	CLNC DEL
270.1	090°-285° 125.1 269.55 286°-089° 119.4 318.1	118.85 253.5	121.8 275.8	121.8 275.8



RADAR REQUIRED

EMERG SAFE ALT 100 NM 17,200

ELEV 2704 | TDZE 2615



CATEGORY	A	B	C	D	E
S-12	3600/60 985 (900-1¼)	3600-1½ 985 (900-1½)	3600-3 985 (900-3)		
C CIRCLING*	3600-1¼ 896 (900-1¼)	3600-1½ 896 (900-1½)	3600-3 896 (900-3)		

HIRL Rwy 12-30
REIL Rwy 12

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA

TACAN Y RWY 30

DAVIS-MONTHAN AFB (KDMA)

TACAN DMA Chan 123	APCH CRS 299°	Rwy ldg 13,643 TDZE 2704 Arpt Elev 2704

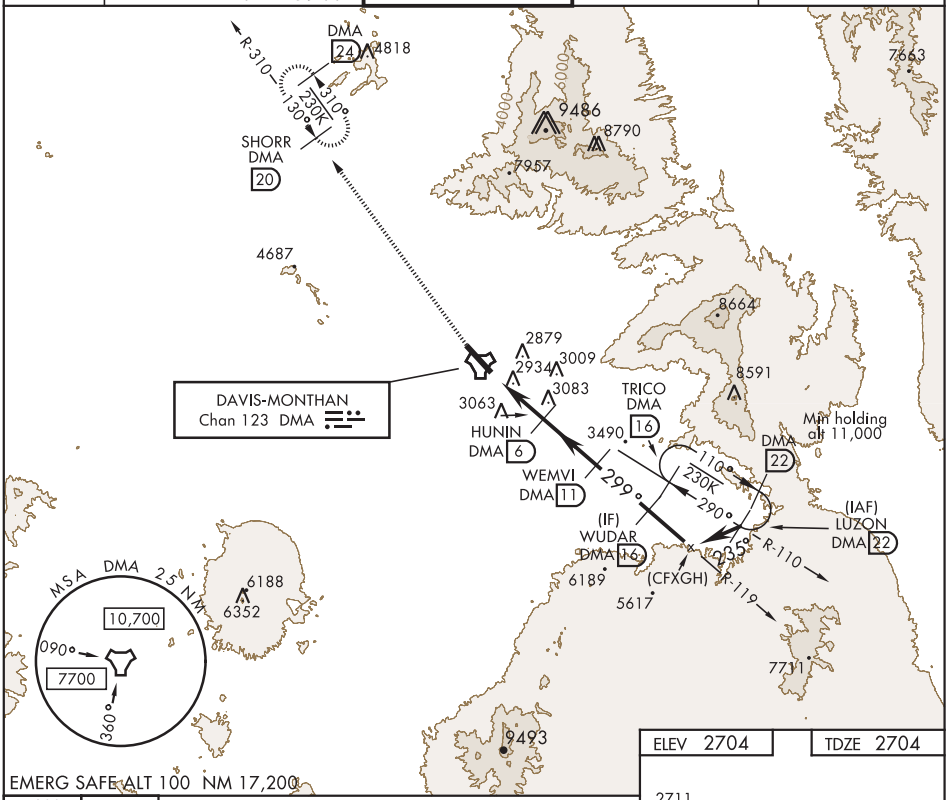
AL-429 [USAF]

* When ALS inop, increase CAT AB RVR to 55, CAT CDE vis to 1¾ miles.
** Circling not authorized S of Rwy 12-30.

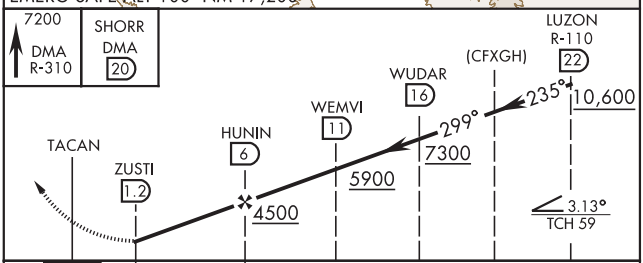
ALSF-1

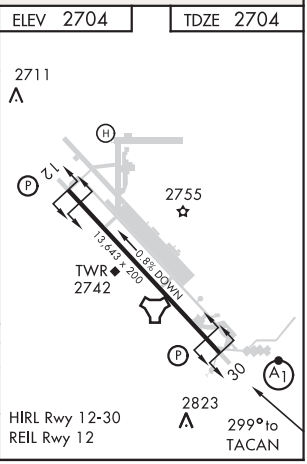
MISSED APPROACH: Climb to 7200, intercept DMA TACAN R-310 to SHORR and hold.

ATIS★	TUCSON APP CON	DAVIS-MONTHAN TOWER	GND CON	CLNC DEL
270.1	066°-274° 119.4 318.1 275°-065° 125.1 269.55	118.85 253.5	121.8 275.8	121.8 275.8



EMERG SAFE ALT 100 NM 17,200





CATEGORY	A	B	C	D	E
S-30 *	3340/50 636 (700-1)		3340-1⅜ 636 (700-1⅜)		
C CIRCLING **	3340-1 636 (700-1)		3340-1¾ 636(700-1¾)	3360-2 656 (700-2)	3440-2½ 736 (800-2½)

HIRL Rwy 12-30
REIL Rwy 12

TUCSON, ARIZONA

Amdt 6 15AUG19

32°10′N-110°53′W

DAVIS-MONTHAN AFB (KDMA)

TACAN Y RWY 30

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

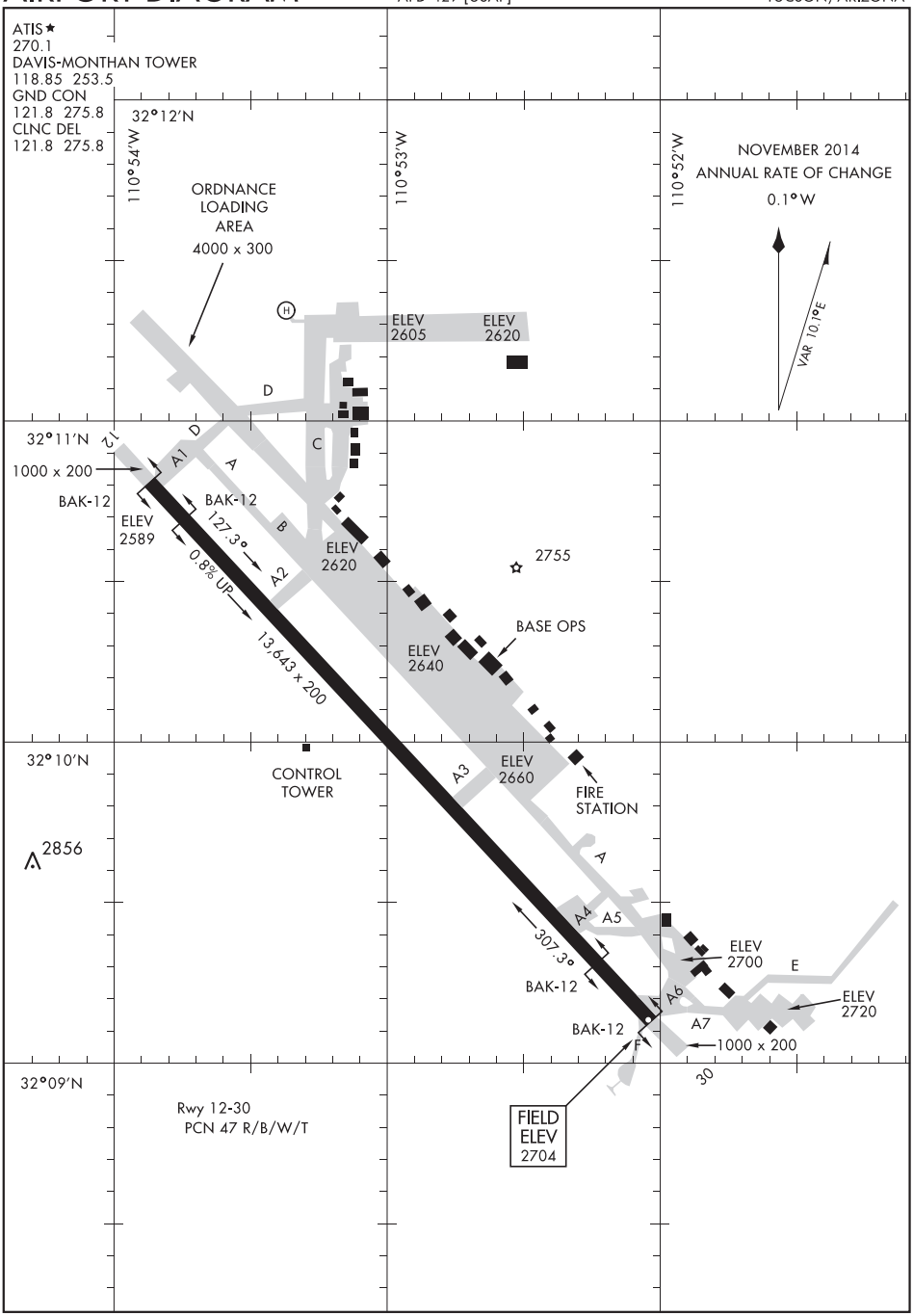
14317

AIRPORT DIAGRAM

DAVIS-MONTHAN AFB (KDMA)

AFD-429 [USAF]

TUCSON, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

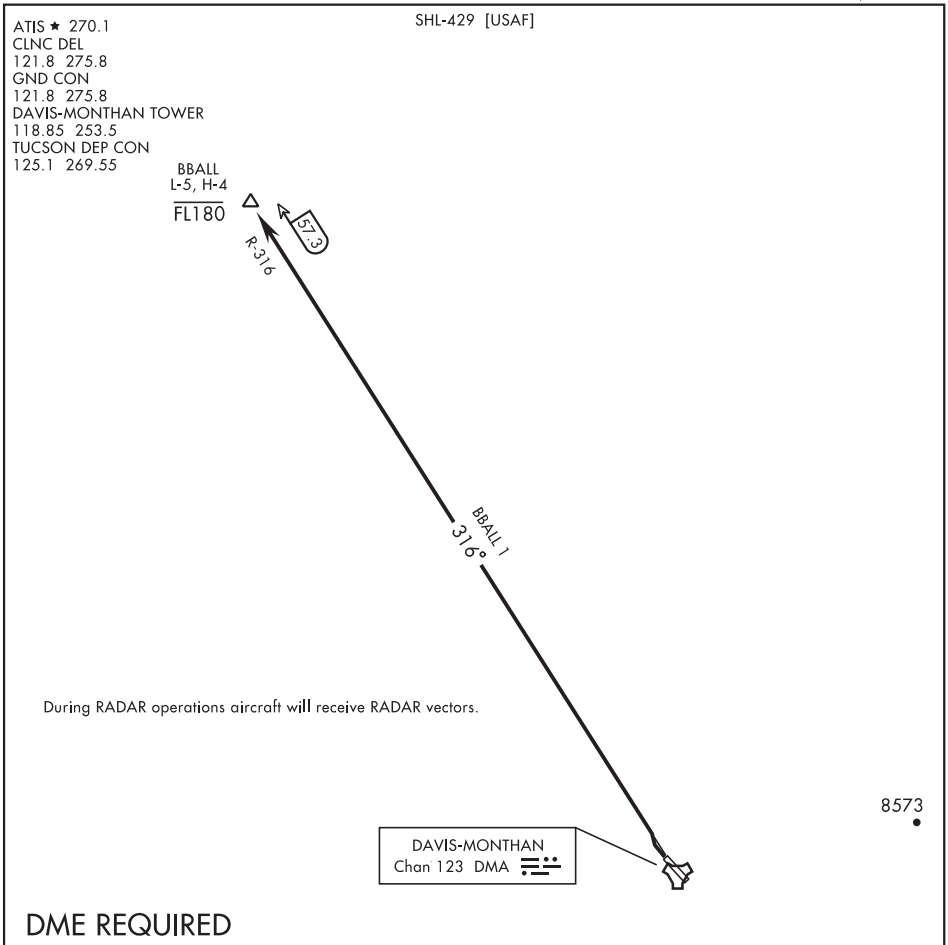
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

TUCSON, ARIZONA

DAVIS-MONTHAN AFB (KDMA)

BBALL ONE DEPARTURE RWY 30 (BBALL1 • BBALL)



DME REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 30: Climbing right turn to intercept DMA TACAN R-316 outbound to BBALL (R-316/57.3 DME) cross BBALL at or below FL180.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

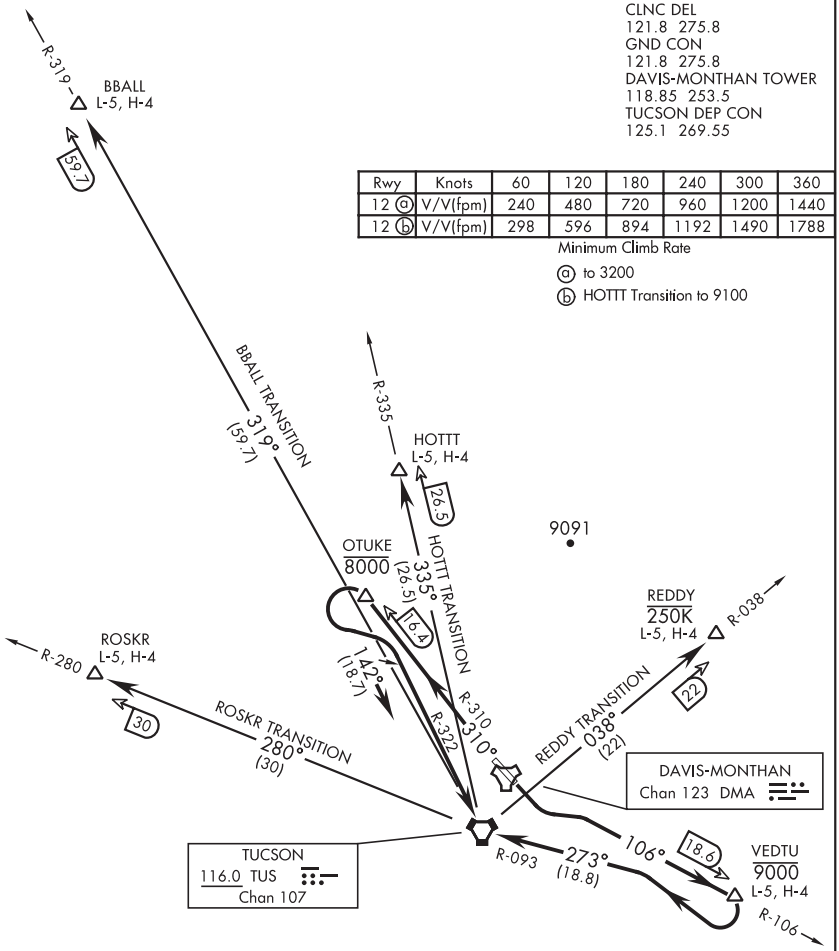
DAVIS MONTHAN TWO DEPARTURE (DMA2•DMA)

SL-429 [USAF]

ATIS ★ 270.1
CLNC DEL
121.8 275.8
GND CON
121.8 275.8
DAVIS-MONTHAN TOWER
118.85 253.5
TUCSON DEP CON
125.1 269.55

Rwy	Knots	60	120	180	240	300	360
12 ⓐ	V/V(fpm)	240	480	720	960	1200	1440
12 ⓑ	V/V(fpm)	298	596	894	1192	1490	1788

Minimum Climb Rate
ⓐ to 3200
ⓑ HOTTT Transition to 9100



During RADAR operations aircraft will receive RADAR vectors to appropriate transition.

DME REQUIRED

(Continued on next page)

SW-4, 05 NOV 2020 to 31 DEC 2020

DAVIS MONTHAN TWO DEPARTURE (DMA2•DMA)

SL-429 [USAF]

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Climbing left turn to intercept TACAN DMA R-106 outbound to VEDTU (DMA 106/18.6) cross VEDTU at or below 9000, turn right and continue climb on TUS R-093 inbound crossing TUS VORTAC at or above 9000.

BBALL TRANSITION (DMA2•BBALL): From over TUS VORTAC via TUS R-319 cross BBALL (TUS 319/59.7) at or above FL210.

HOTTT TRANSITION (DMA2•HOTTT): From over TUS VORTAC via TUS R-335 cross HOTTT (TUS 335/26.5) at or above 14,200.

ROSKR TRANSITION (DMA2•ROSKR): From over TUS VORTAC via TUS R-280 cross ROSKR (TUS 280/30) at or above 15,300.

TAKE-OFF RWY 30: Climb via TACAN DMA R-310 and cross OTUKE (DMA 310/16.4) at or below 8000, turn left and continue climb on TUS R-322 crossing TUS VORTAC at or below 10,000.

HOTTT TRANSITION (DMA2•HOTTT): From over TUS VORTAC via TUS R-335 cross HOTTT (TUS 335/26.5) at or above 11,100.

REDDY TRANSITION (DMA2•REDDY): From over TUS VORTAC via TUS R-038 cross REDDY (TUS 038/22) at or above 12,200. Do not exceed 250 KIAS until REDDY.

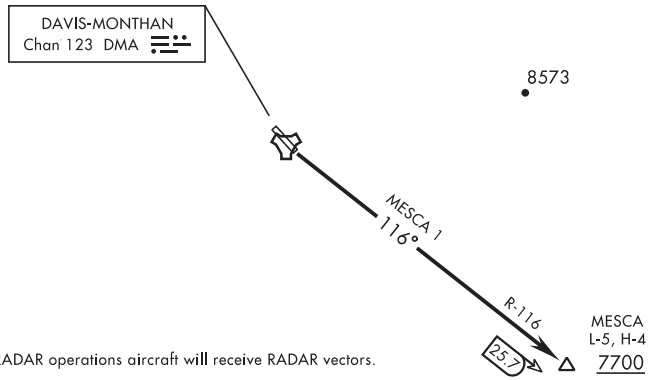
ROSKR TRANSITION (DMA2•ROSKR): From over TUS VORTAC via TUS R-280 cross ROSKR (TUS 280/30) at or above 13,600.

MESCA ONE DEPARTURE RWY 12 (MESCA1 • MESCA)

TUCSON, ARIZONA

SHL-429 [USAF]

ATIS ★ 270.1
CLNC DEL
121.8 275.8
GND CON
121.8 275.8
DAVIS-MONTHAN TOWER
118.85 253.5
TUCSON DEP CON
125.1 269.55



During RADAR operations aircraft will receive RADAR vectors.

DME REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 12: Climb direct MESCA (R-116/25.7 DME) on DMA TACAN R-116 and cross at or above 7700.

RNAV (GPS) RWY 17
DELTA MUNI (DTA)

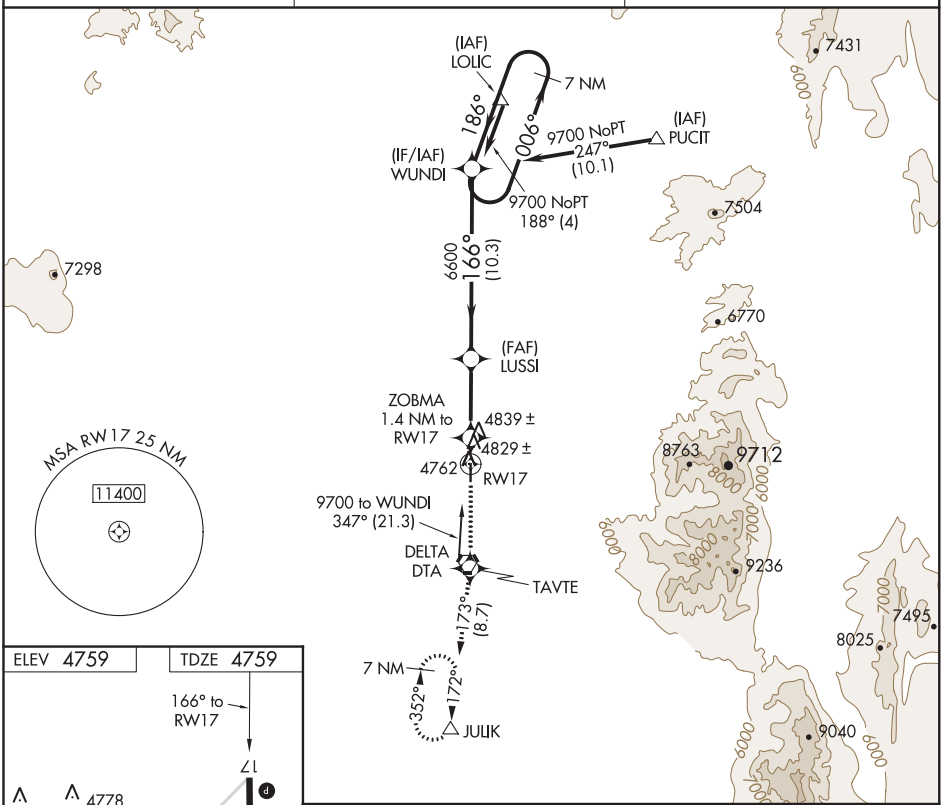
WAAS CH 45724 W17A	APP CRS 166°	Rwy ldg 5502	TDZE 4759	Apt Elev 4759

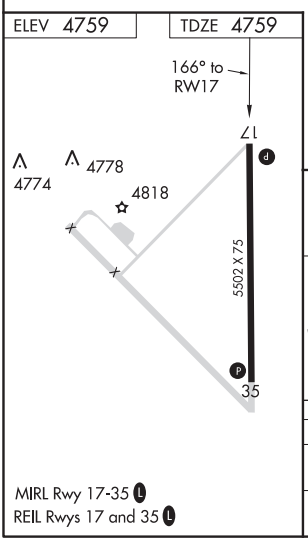
RNP APCH.

Rwy 17 helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, procedure NA.

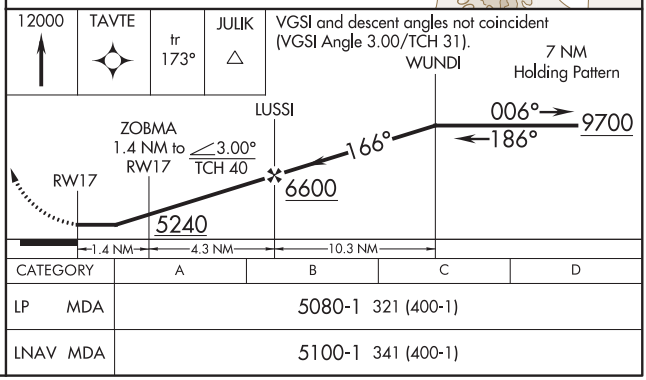
MISSED APPROACH: Climb to 12000 direct TAVTE and on track 173° to JULIK and hold, continue climb-in-hold to 12000.

AWOS-3	SALT LAKE CENTER	UNICOM
127.75	127.825 239.025	122.8 (CTAF) L





MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L



CATEGORY	A	B	C	D
LP MDA	5080-1 321 (400-1)			
LNAV MDA	5100-1 341 (400-1)			

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DELTA, UTAH | AL-113 (FAA) | 20086

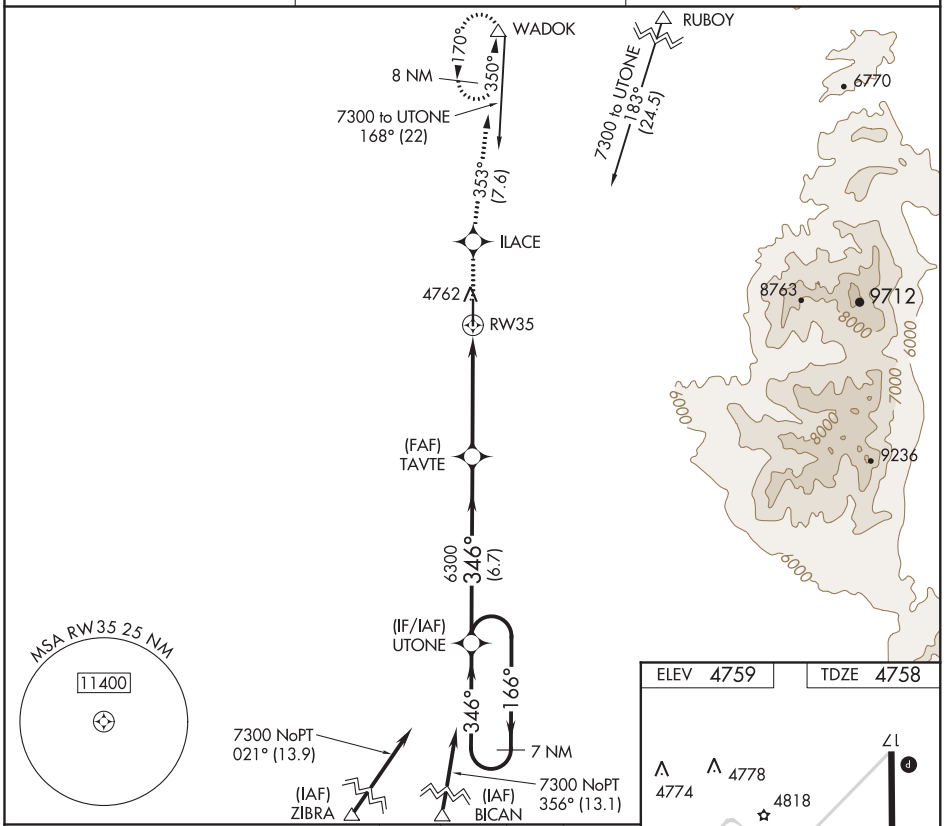
RNAV (GPS) RWY 35
DELTA MUNI (DTA)

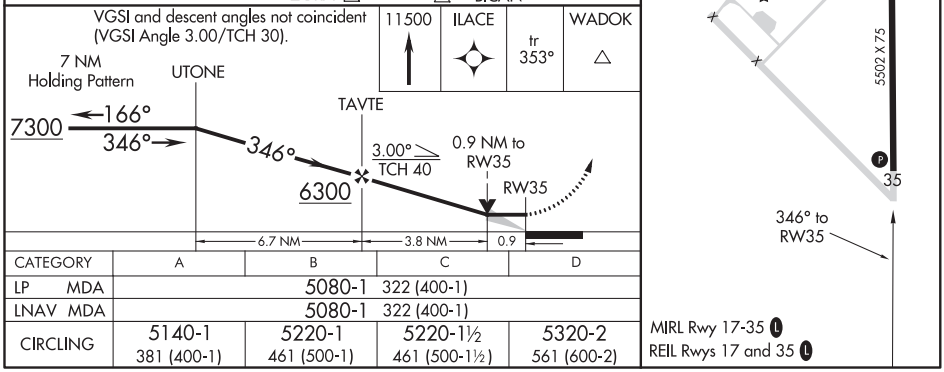
WAAS CH 61124 W35A	APP CRS 346°	Rwy ldg 5502	TDZE 4758	Apt Elev 4759

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 11500 direct ILACE and on track 353° to WADOK and hold, continue climb-in-hold to 11500.

AWOS-3	SALT LAKE CENTER	UNICOM
127.75	127.825 239.025	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	5080-1 322 (400-1)			
LNAV MDA	5080-1 322 (400-1)			
CIRCLING	5140-1 381 (400-1)	5220-1 461 (500-1)	5220-1½ 461 (500-1½)	5320-2 561 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

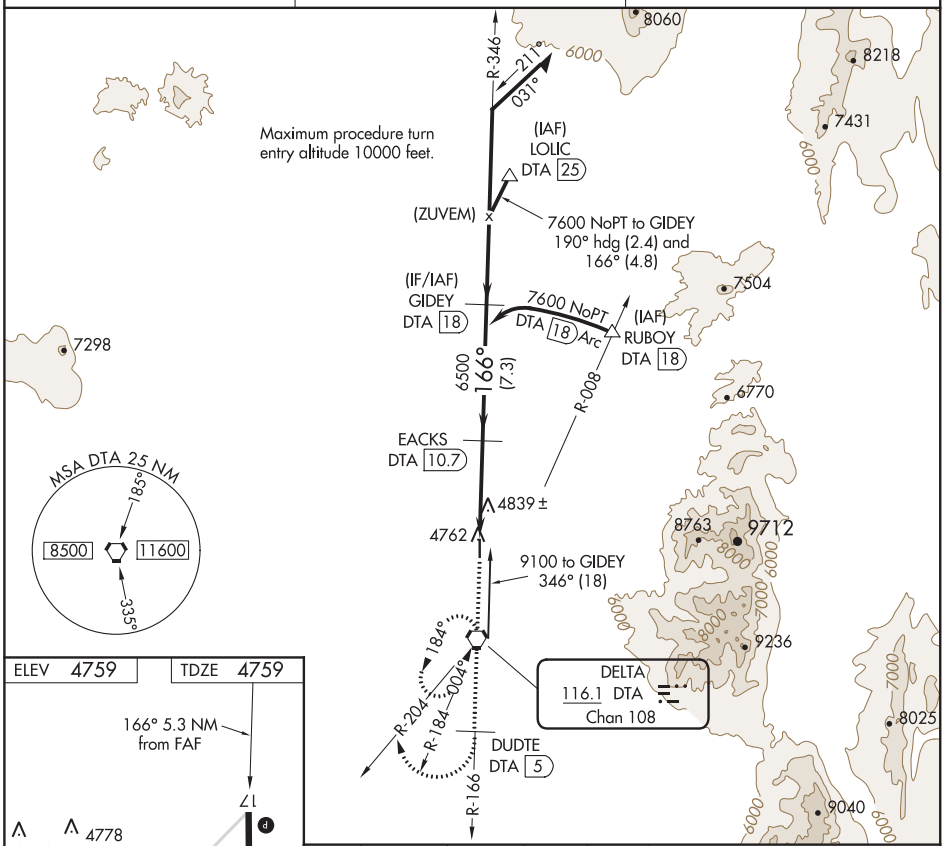
VOR/DME RWY 17
DELTA MUNI (DTA)

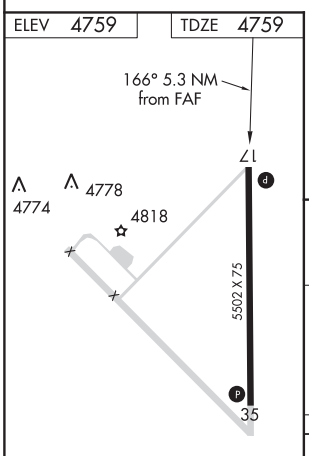
VORTAC DTA	APP CRS	Rwy ldg	5502
116.1	166°	TDZE	4759
Chan 108		Apt Elev	4759

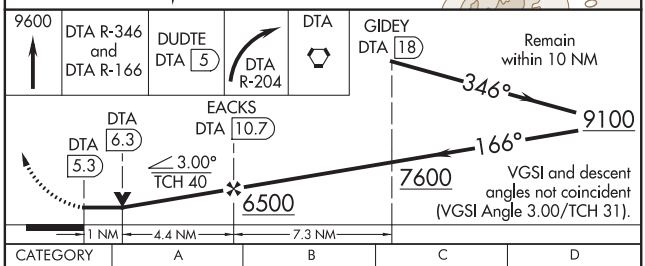
T NA Helicopter visibility reduction below ¾ SM NA. If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 9600 via DTA VORTAC R-346 and R-166 to DUDTE/5 DME and climbing right turn via DTA VORTAC R-204 to DTA VORTAC and hold, continue climb-in-hold to 9600.

AWOS-3	SALT LAKE CENTER	UNICOM
127.75	127.825 239.025	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-17	5100-1 341 (400-1)			
CIRCLING	5140-1 381 (400-1)	5220-1 461 (500-1)	5220-1½ 461 (500-1½)	5320-2 561 (600-2)

MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DELTA, UTAH | AL-113 (FAA) | 20086

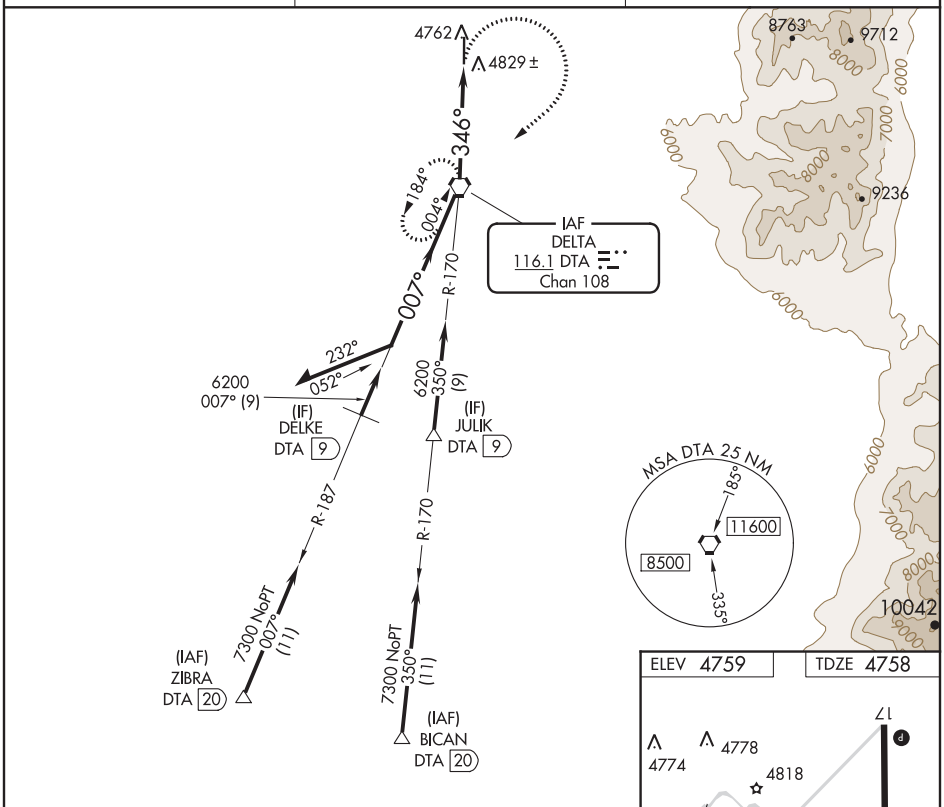
VOR RWY 35
DELTA MUNI (DTA)

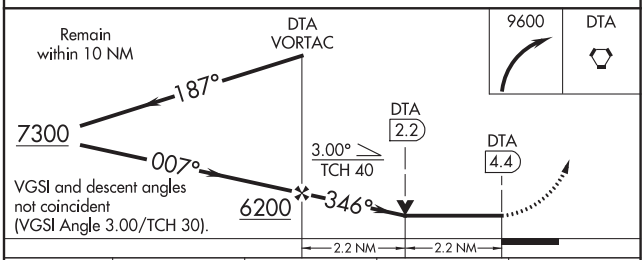
VORTAC DTA	APP CRS	Rwy ldg	5502
116.1	346°	TDZE	4758
Chan 108		Apt Elev	4759

NA — If local altimeter setting not received, procedure NA.

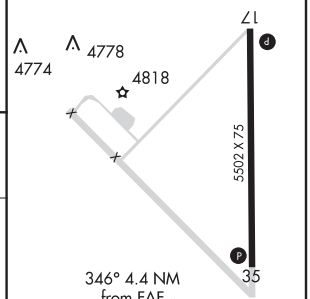
MISSED APPROACH: Climbing right turn to 9600 direct DTA VORTAC and hold, continue climb-in-hold to 9600.

AWOS-3	SALT LAKE CENTER	UNICOM
127.75	127.825 239.025	122.8 (CTAF) L





ELEV 4759	TDZE 4758



MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

CATEGORY	A	B	C	D
S-35	5500-1 742 (800-1)	5500-1¼ 742 (800-1¼)	5500-2¼ 742 (800-2¼)	5500-2½ 742 (800-2½)
CIRCLING	5500-1 741 (800-1)	5500-1¼ 741 (800-1¼)	5500-2¼ 741 (800-2¼)	5500-2½ 741 (800-2½)

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

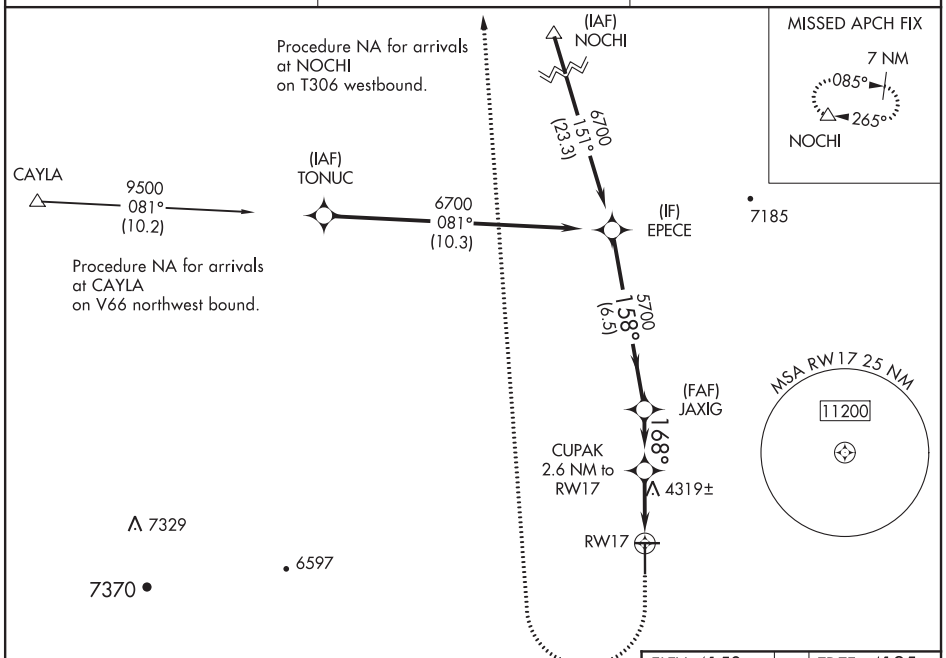
RNAV (GPS) RWY 17
BISBEE-DOUGLAS INTL (DUG)

APP CRS	Rwy ldg	6430
168°	TDZE	4125
	Apt Elev	4150

DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 5100 then climbing right turn to 11000 direct NOCHI and hold.

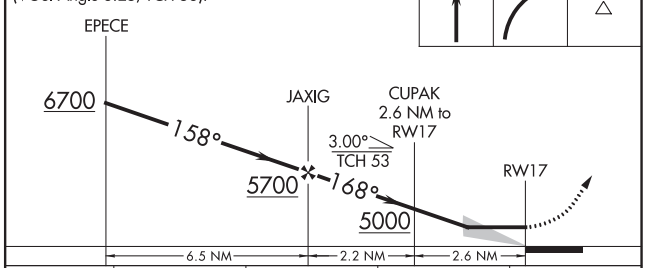
ASOS	ALBUQUERQUE CENTER	UNICOM
119.275	134.45 327.15	123.0 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020

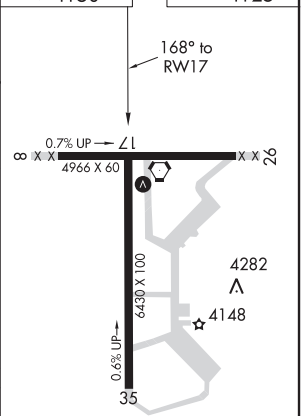
SW-4, 05 NOV 2020 to 31 DEC 2020

VGSI and descent angles not coincident (VGSI Angle 3.25/TCH 53).



CATEGORY	A	B	C	D
LNAV MDA	4580-1 455 (500-1)		4580-1⅜ 455 (500-1⅜)	
CIRCLING	4620-1 470 (500-1)	4640-1 490 (500-1)	4760-1¾ 610 (700-1¾)	4800-2 650 (700-2)

ELEV 4150 TDZE 4125



MIRL Rwy 17-35 L

DOUGLAS BISBEE, ARIZONA

AL-486 (FAA)

20086

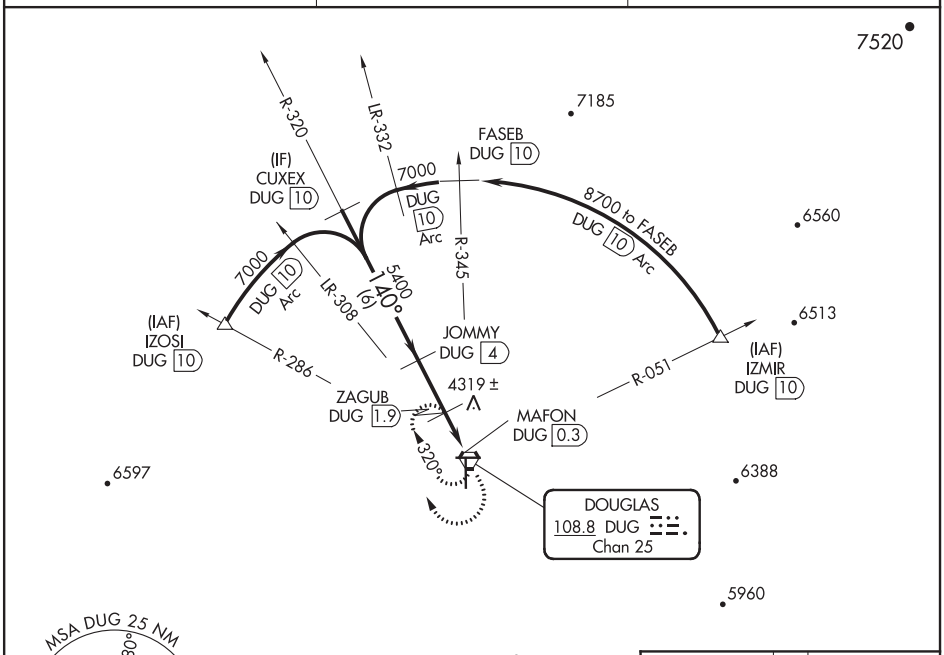
VOR/DME RWY 17

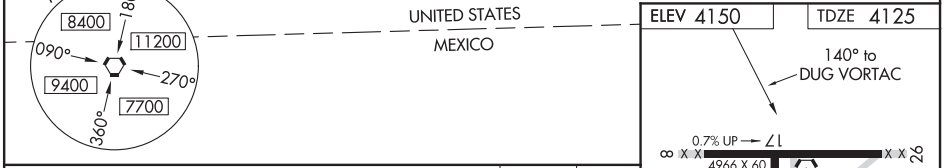
BISBEE-DOUGLAS INTL (DUG)

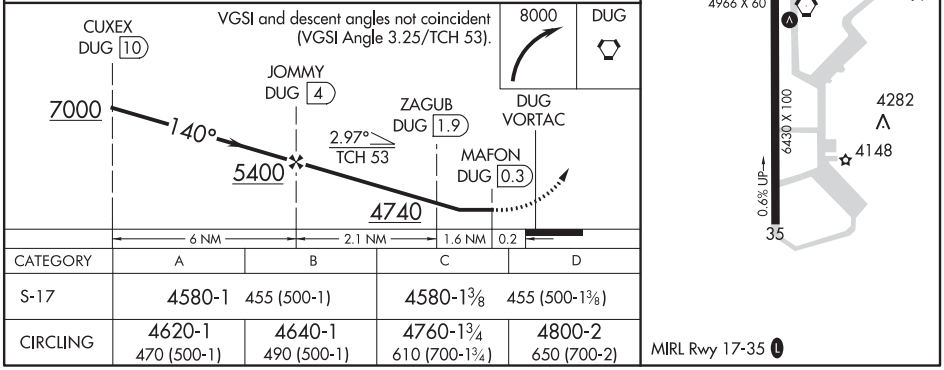
VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy ldg 6430 TDZE 4125 Apt Elev 4150

MISSED APPROACH: Climbing right turn to 8000 in DUG VORTAC holding pattern, continue climb-in-hold to 8000.

ASOS	ALBUQUERQUE CENTER	UNICOM
119.275	134.45 327.15	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-17	4580-1 455 (500-1)		4580-1⅜ 455 (500-1⅜)	
CIRCLING	4620-1 470 (500-1)	4640-1 490 (500-1)	4760-1¾ 610 (700-1¾)	4800-2 650 (700-2)

DOUGLAS BISBEE, ARIZONA
Amdt 6A 28APR16

31°28′N-109°36′W

BISBEE-DOUGLAS INTL (DUG)
VOR/DME RWY 17

SW-4, 05 NOV 2020 to 31 DEC 2020

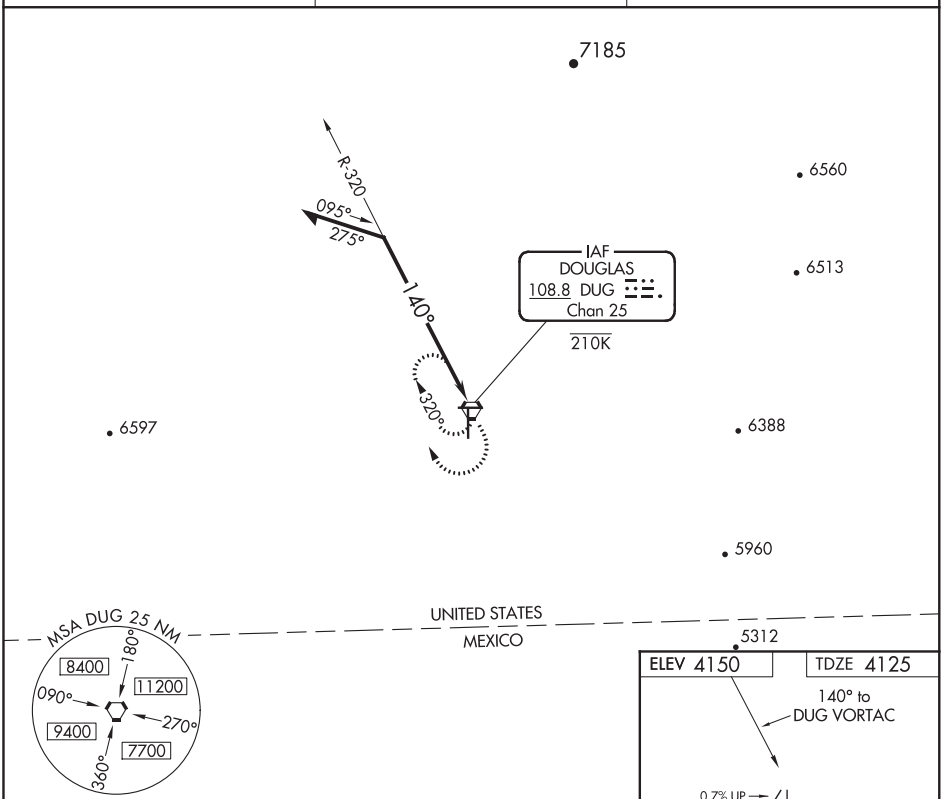
SW-4, 05 NOV 2020 to 31 DEC 2020

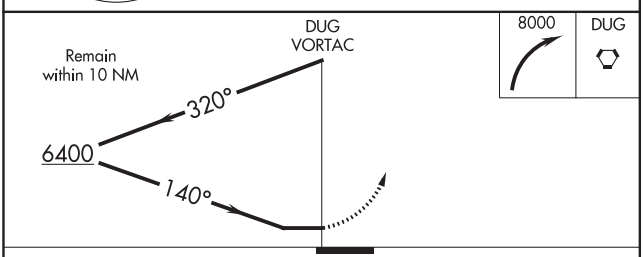
VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy ldg 6430 TDZE 4125 Apt Elev 4150

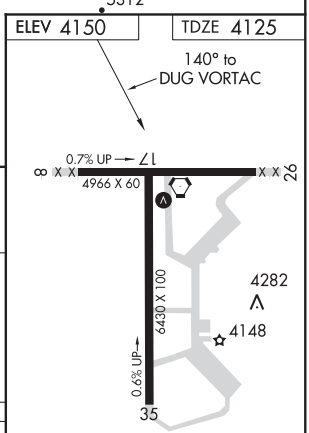
VOR RWY 17
BISBEE-DOUGLAS INTL (DUG)

MISSED APPROACH: Climbing right turn to 8000 in DUG VORTAC holding pattern.

ASOS	ALBUQUERQUE CENTER	UNICOM
119.275	134.45 327.15	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-17	4900-1 775 (800-1)	4900-1¼ 775 (800-1¼)	NA	
CIRCLING	4900-1 750 (800-1)	4900-1¼ 750 (800-1¼)	4900-2½ 750 (800-2½)	

MIRL Rwy 17-35 L

DUCHESNE, UTAH

AL-6405 (FAA)

20310

VOR/DME-A
DUCHESNE MUNI (U69)

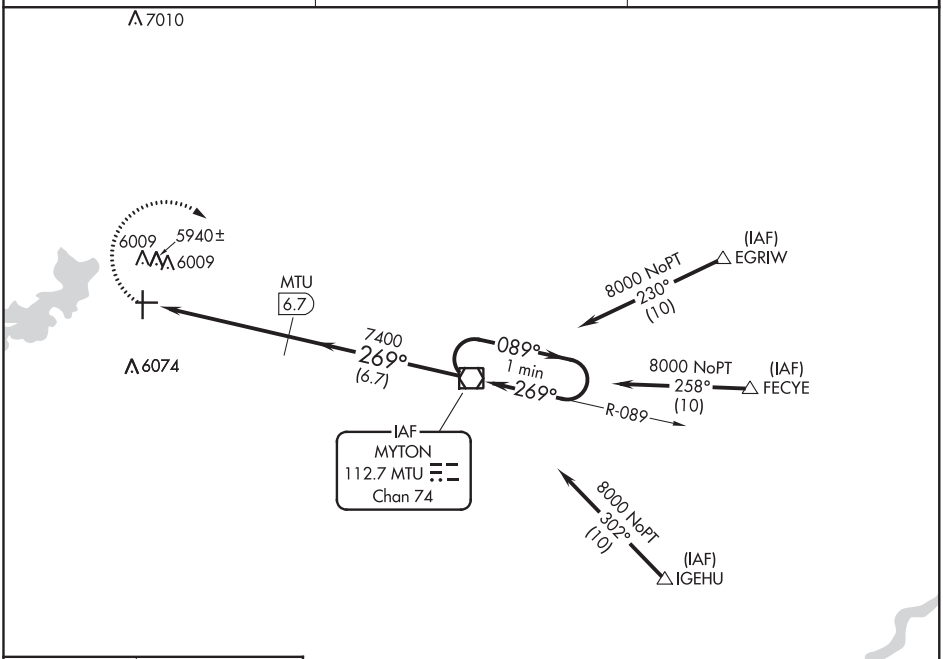
VOR/DME MTU	APP CRS	Rwy ldg	N/A
112.7	269°	TDZE	N/A
Chan 74		Apt Elev	5831

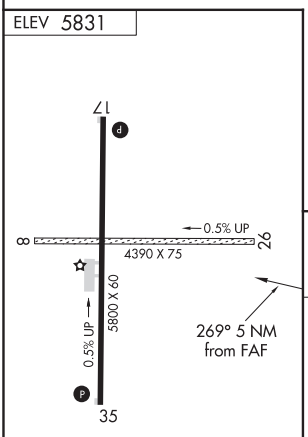
T
NA

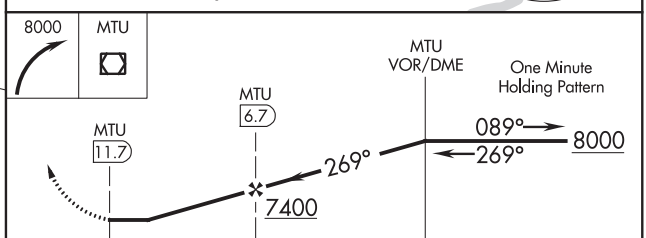
When local altimeter setting not received, use Vernal altimeter setting.
Circling NA to Rwys 8 and 26.

MISSED APPROACH: Climbing right turn to 8000 direct MTU VOR/DME and hold.

AWOS-3	SALT LAKE CENTER	UNICOM
121.125	133.9 370.85	122.8 (CTAF) L







REIL Rwys 17 and 35 L

MIRL Rwy 17-35 L

CATEGORY	A	B	C	D
C CIRCLING	6660-1¼ 829 (900-1¼)		6660-2½ 829 (900-2½)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	7217
057°	TDZE	5051
	Apt Elev	5140

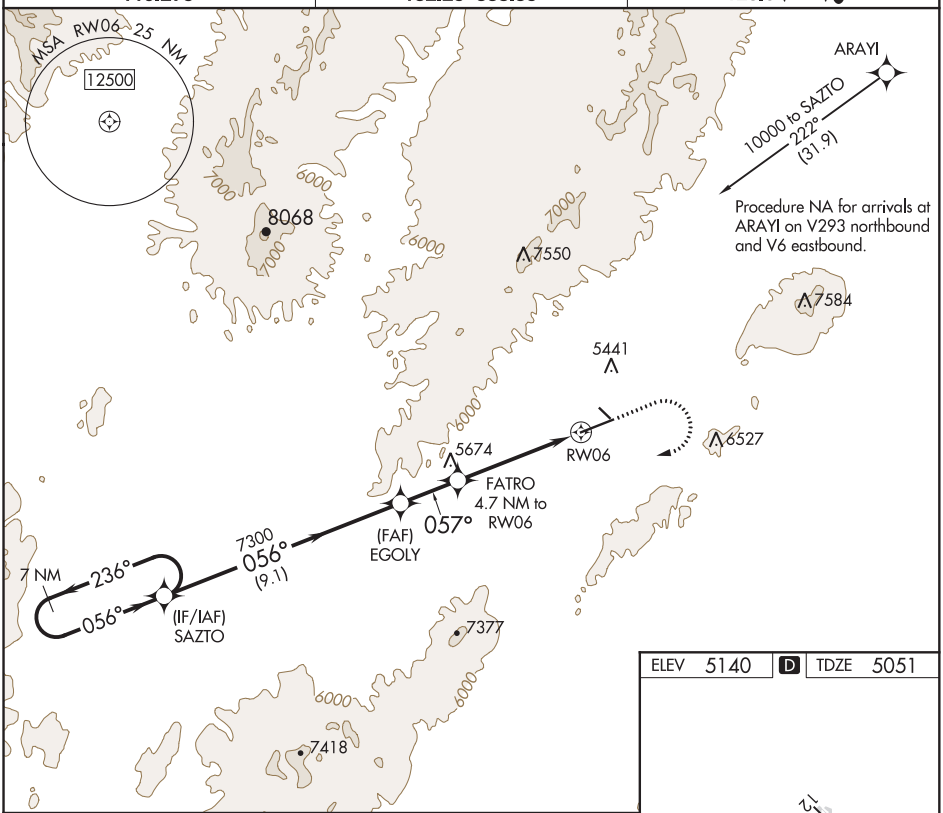
RNAV (GPS) RWY 6
ELKO RGNL (EKO)

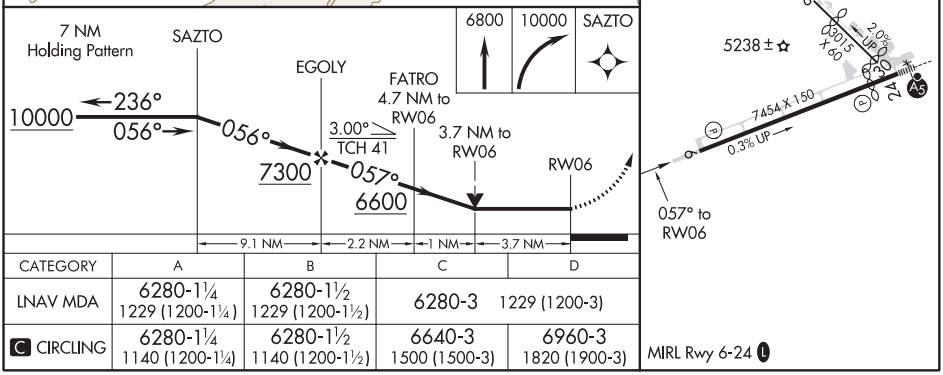
RNP APCH.

Circling Rwy 24 NA at night.
Rwy 6 helicopter visibility reduction below ¾ SM NA.
-24°C

MISSED APPROACH: Climb to 6800 then climbing right turn to 10000 direct SAZTO and hold, continue climb-in-hold to 10000.

ASOS	SALT LAKE CENTER	UNICOM
119.275	132.25 338.35	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	6280-1¼ 1229 (1200-1¼)	6280-1½ 1229 (1200-1½)	6280-3 1229 (1200-3)	
C CIRCLING	6280-1¼ 1140 (1200-1¼)	6280-1½ 1140 (1200-1½)	6640-3 1500 (1500-3)	6960-3 1820 (1900-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 24
ELKO RGNL (EKO)

APP CRS	Rwy ldg	6418
248°	TDZE	5064
	Apt Elev	5140

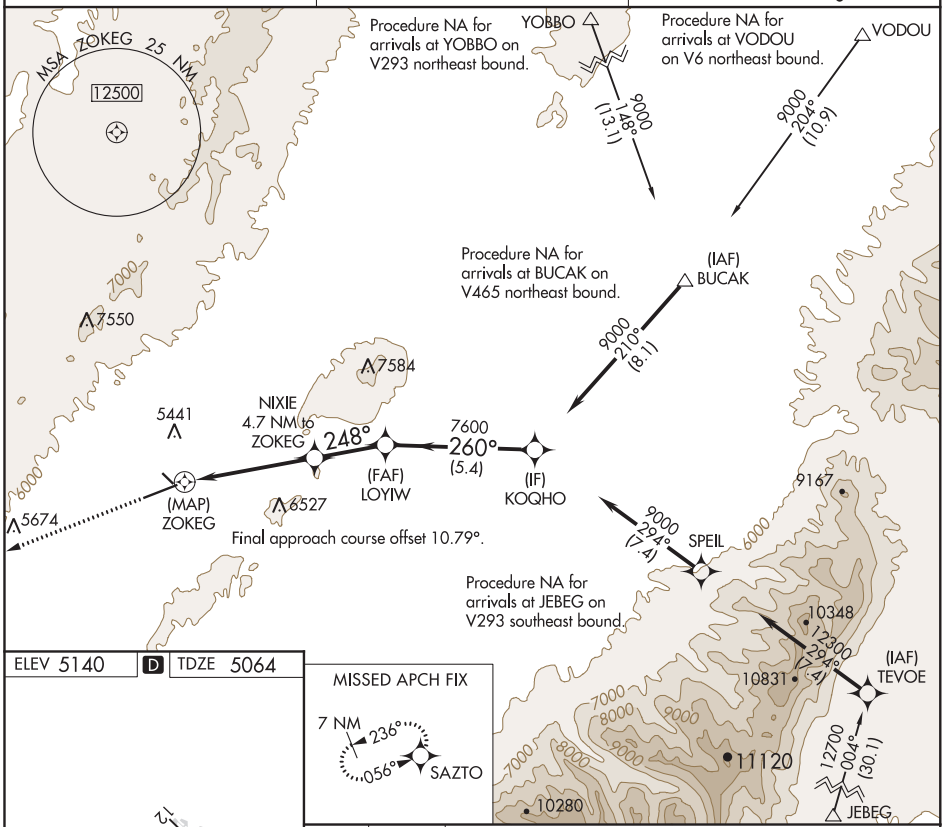
RNP APCH.

Inop table does not apply to Cats C/D. Circling Rwy 24 NA at night. Rwy 24 helicopter visibility reduction below ¾ SM NA. -24°C

MALSR

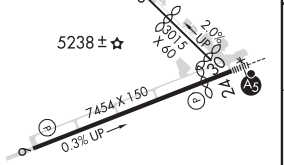
MISSED APPROACH: Climb to 10000 direct SAZTO and hold, continue climb-in-hold to 10000.

ASOS	SALT LAKE CENTER	UNICOM
119.275	132.25 338.35	123.0 (CTAF) L



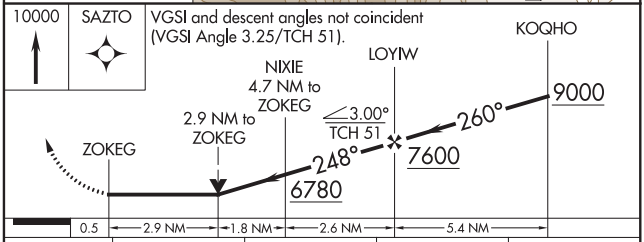
ELEV 5140 D TDZE 5064

MISSED APCH FIX



10000 SAZTO

VGSI and descent angles not coincident (VGSI Angle 3.25/TCH 51).



CATEGORY	A	B	C	D
LNAV MDA	6260-¾ 1196 (1200-¾)	6260-1 1196 (1200-1)	6260-3 1196 (1200-3)	
C CIRCLING	6260-1¼ 1120 (1200-1¼)	6260-1½ 1120 (1200-1½)	6640-3 1500 (1500-3)	6960-3 1820 (1900-3)

MIRL Rwy 6-24 L

SW-4, 05 NOV 2020 to 31 DEC 2020

LDA/DME RWY 24

ELKO RGNL (EKO)

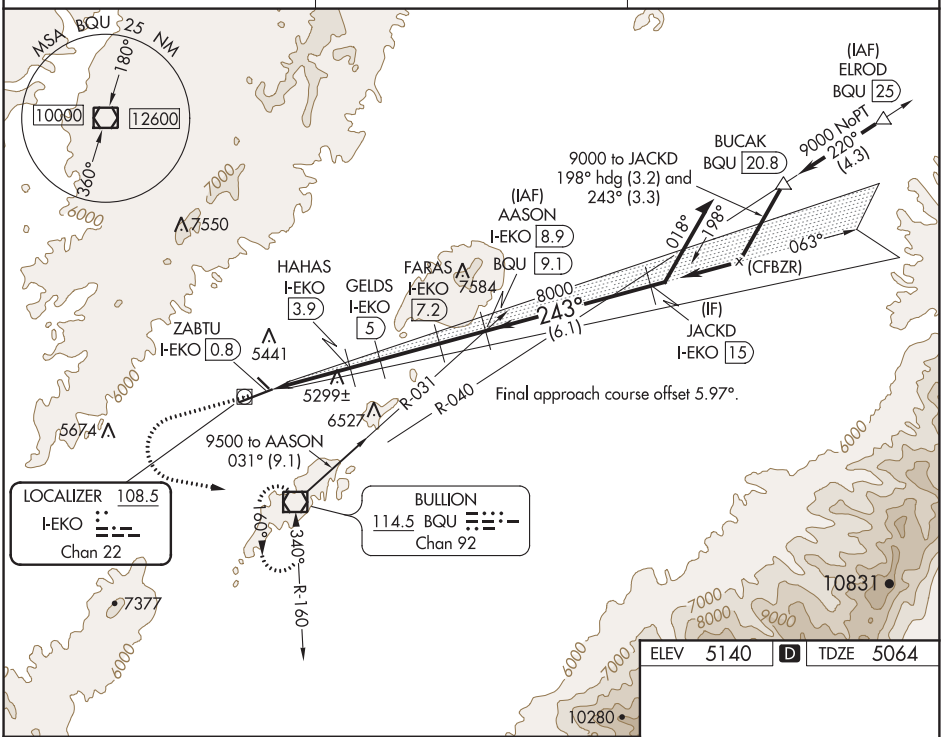
LOC/DME I-EKO	APP CRS	Rwy ldg	6418
108.5	243°	TDZE	5064
Chan 22		Apt Elev	5140

Inoperative table does not apply to Cats A and B. For inop MALSR, increase S-24 Cat C and D visibility to 2 miles. Rwy 24 helicopter visibility reduction below ¾ SM NA. Circling Rwy 24 NA at night. -24°C

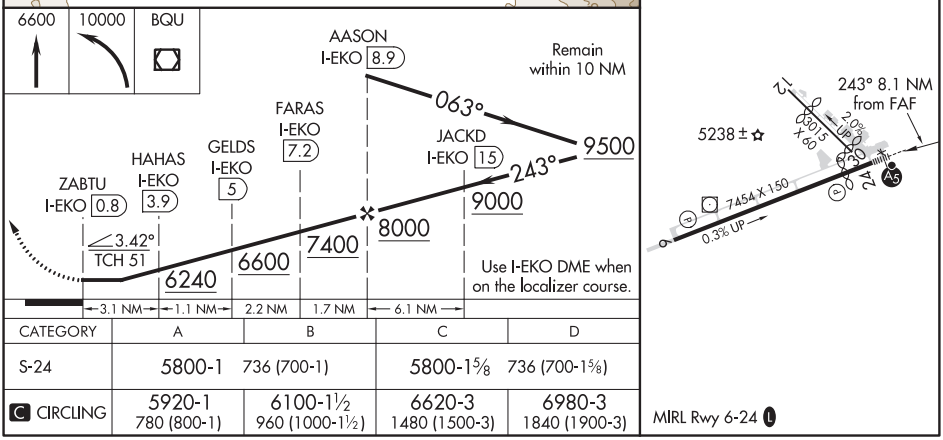
MALSR

MISSED APPROACH: Climb to 6600 then climbing left turn to 10000 direct BQU VOR/DME and hold, continue climb-in-hold to 10000.

ASOS	SALT LAKE CENTER	UNICOM
119.275	132.25 338.35	123.0 (CTAF)



ELEV 5140 D TDZE 5064



CATEGORY	A	B	C	D
S-24	5800-1 736 (700-1)		5800-1⅝ 736 (700-1⅝)	
C CIRCLING	5920-1 780 (800-1)	6100-1½ 960 (1000-1½)	6620-3 1480 (1500-3)	6980-3 1840 (1900-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELKO, NEVADA | AL-129 (FAA) | 20310

VOR/DME-B
ELKO RGNL (EKO)

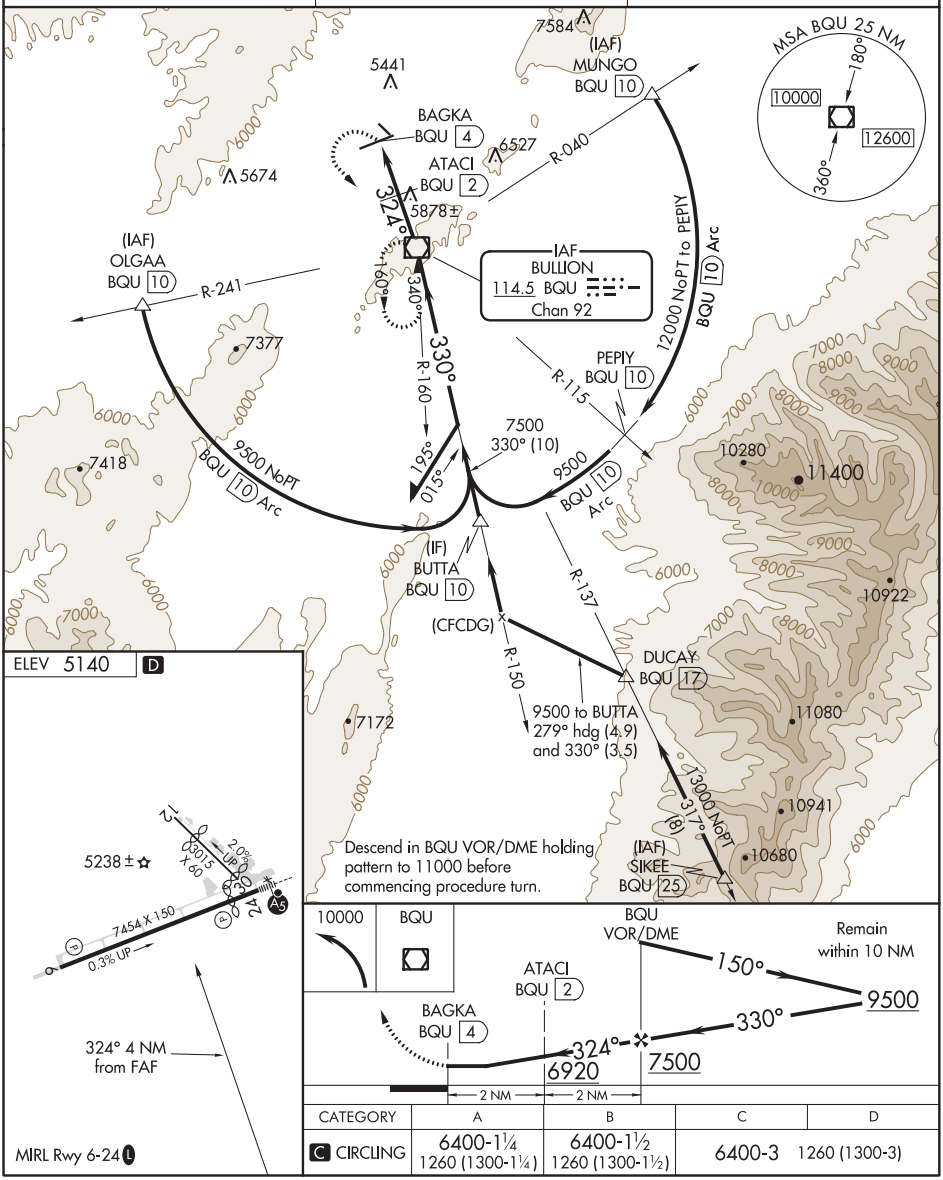
VOR/DME BQU	APP CRS	Rwy ldg	N/A
114.5	324°	TDZE	N/A
Chan 92		Apt Elev	5140

T A -24°C

Circling NA for Cats C and D southeast of Rwy 6-24.
Circling Rwy 24 NA at night.

MISSED APPROACH: Climbing left turn to 10000 direct BQU VOR/DME and hold, continue climb-in-hold to 10000.

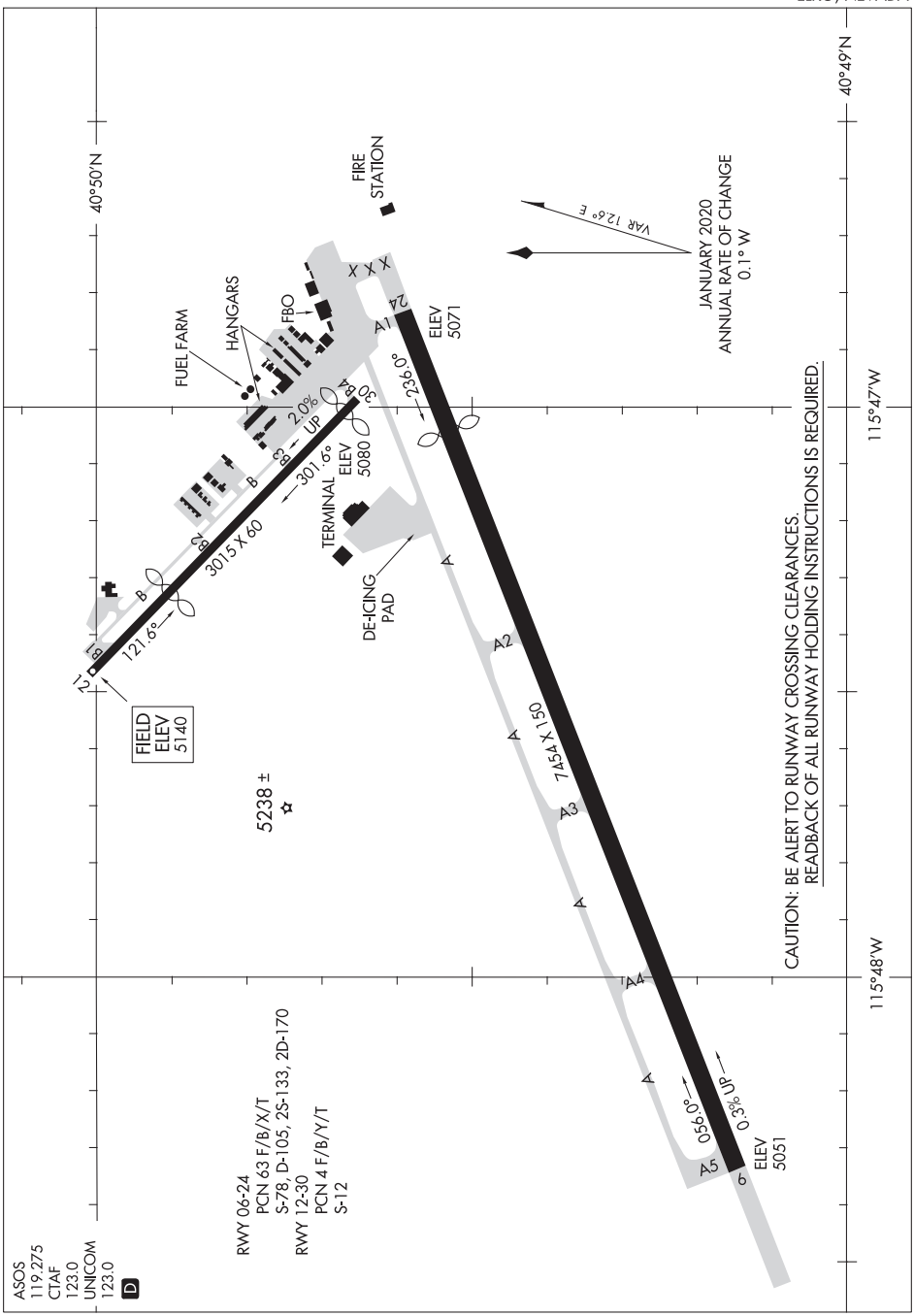
ASOS	SALT LAKE CENTER	UNICOM
119.275	132.25 338.35	123.0 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	6400-1¼ 1260 (1300-1¼)	6400-1½ 1260 (1300-1½)	6400-3 1260 (1300-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELY, NEVADA

AL-5163 (FAA)

20030

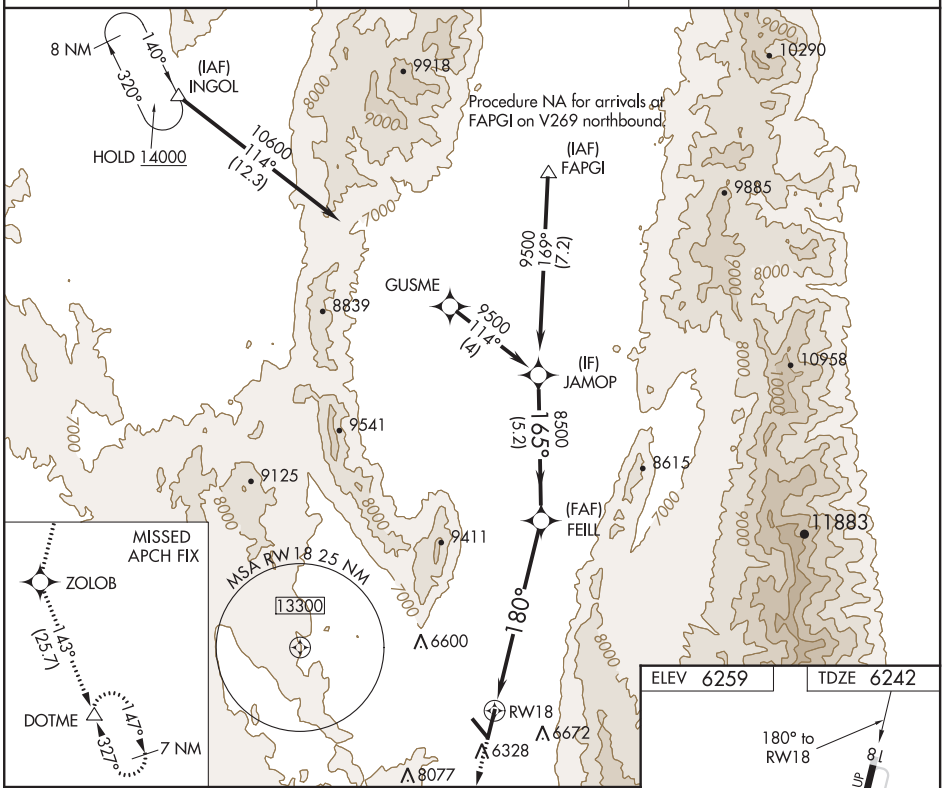
RNAV (GPS) RWY 18
ELY AIRPORT-YELLAND FIELD (ELY)

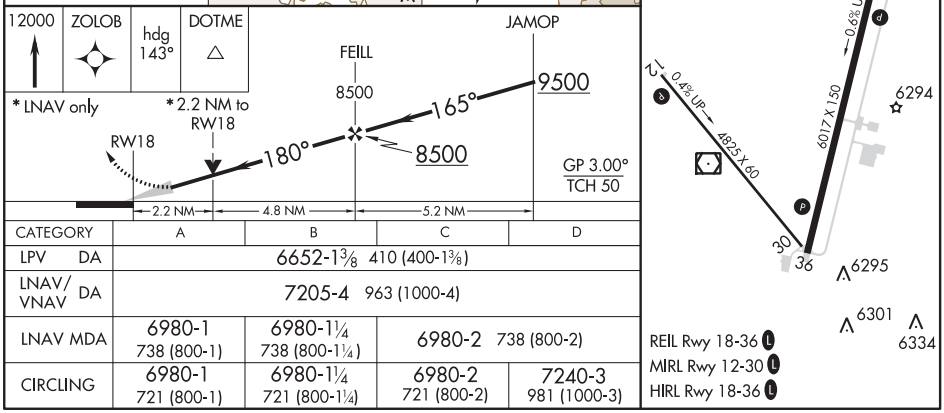
WAAS CH 42823 W18A	APP CRS 180°	Rwy ldg 6017 TDZE 6242 Apt Elev 6259

Baro-VNAV NA.
Circling NA southwest of Rwys 12 and 36.
DME/DME RNP-0.3 NA.
-31°C

MISSED APPROACH: Climb to 12000 direct ZOLOB and on track 143° to DOTME and hold.

ASOS	SALT LAKE CENTER	UNICOM
120.625	133.45 317.625	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	6652-1⅜ 410 (400-1⅜)			
LNAV/VNAV DA	7205-4 963 (1000-4)			
LNAV MDA	6980-1 738 (800-1)	6980-1¼ 738 (800-1¼)	6980-2 738 (800-2)	
CIRCLING	6980-1 721 (800-1)	6980-1¼ 721 (800-1¼)	6980-2 721 (800-2)	7240-3 981 (1000-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VOR/DME ELY 110.6 Chan 43	APP CRS 179°	Rwy ldg N/A TDZE N/A Apt Elev 6259

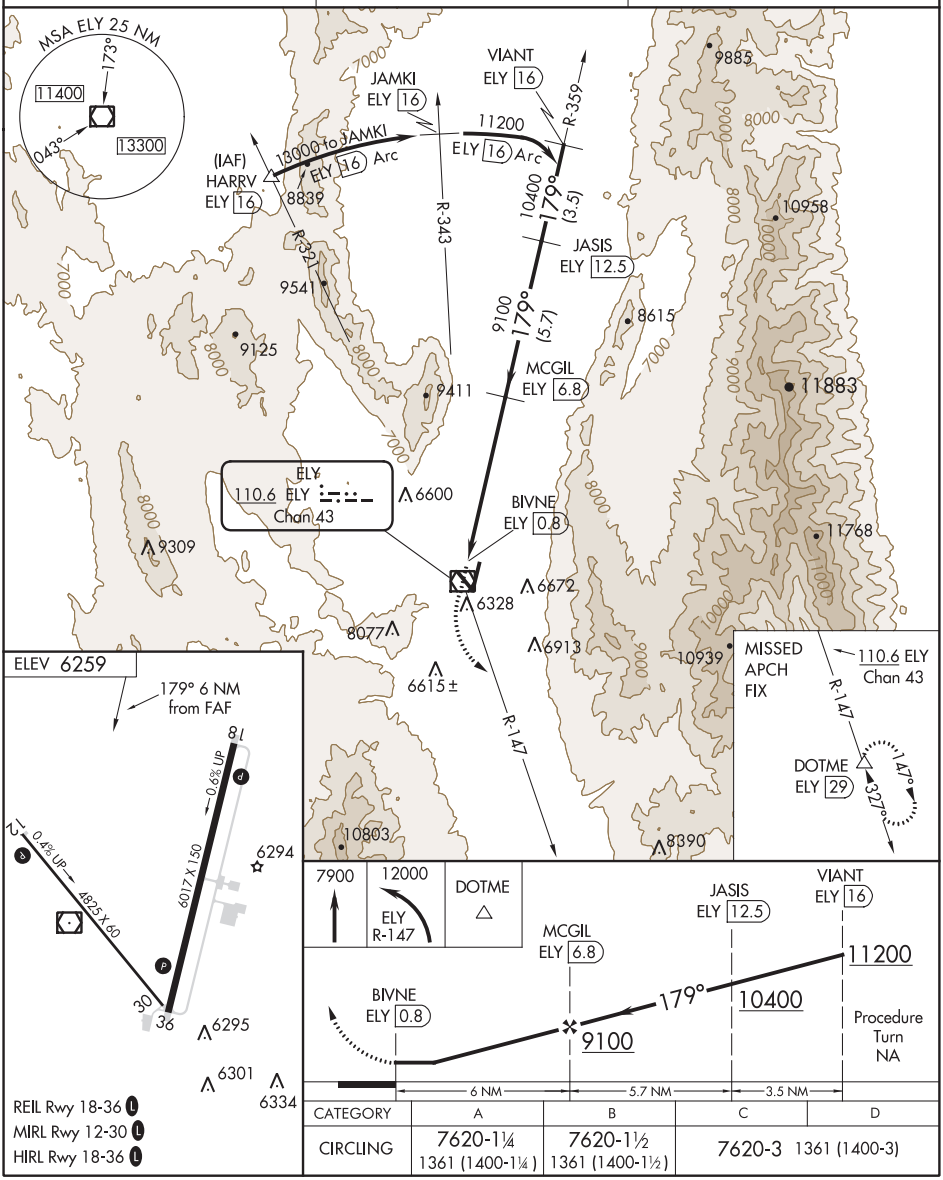
VOR/DME-C
ELY AIRPORT-YELLAND FIELD (ELY)

NA
-31°C

Circling NA southwest of Rwys 12 and 36.

MISSED APPROACH: Climb to 7900 then climbing left turn to 12000 via R-147 to DOTME/ELY 29 DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
120.625	133.45 317.625	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	7620-1¼ 1361 (1400-1¼)	7620-1½ 1361 (1400-1½)	7620-3 1361 (1400-3)	

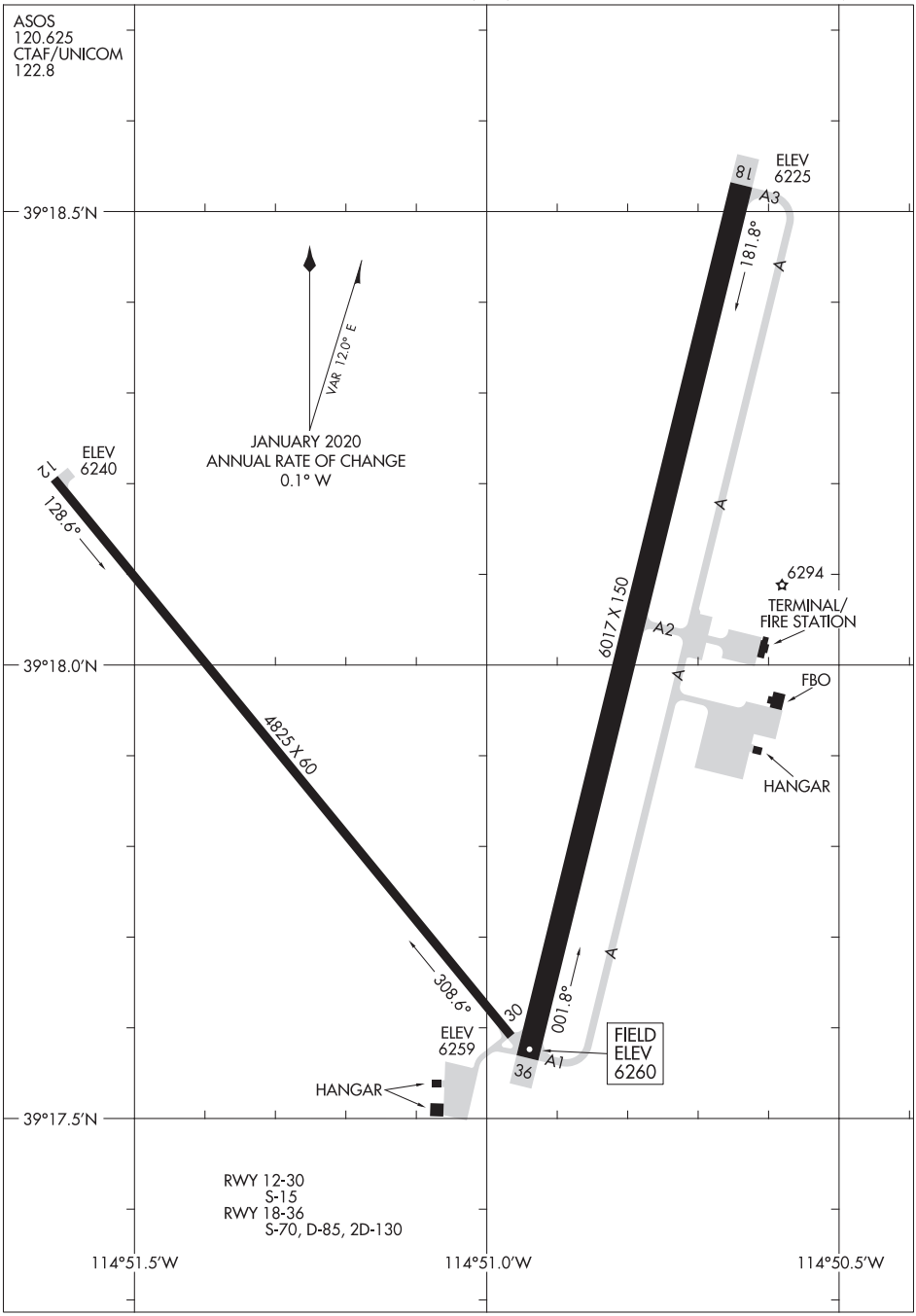
20086

AIRPORT DIAGRAM

AL-5163 (FAA)

ELY ARPT-YELLAND FLD (ELY)

ELY, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

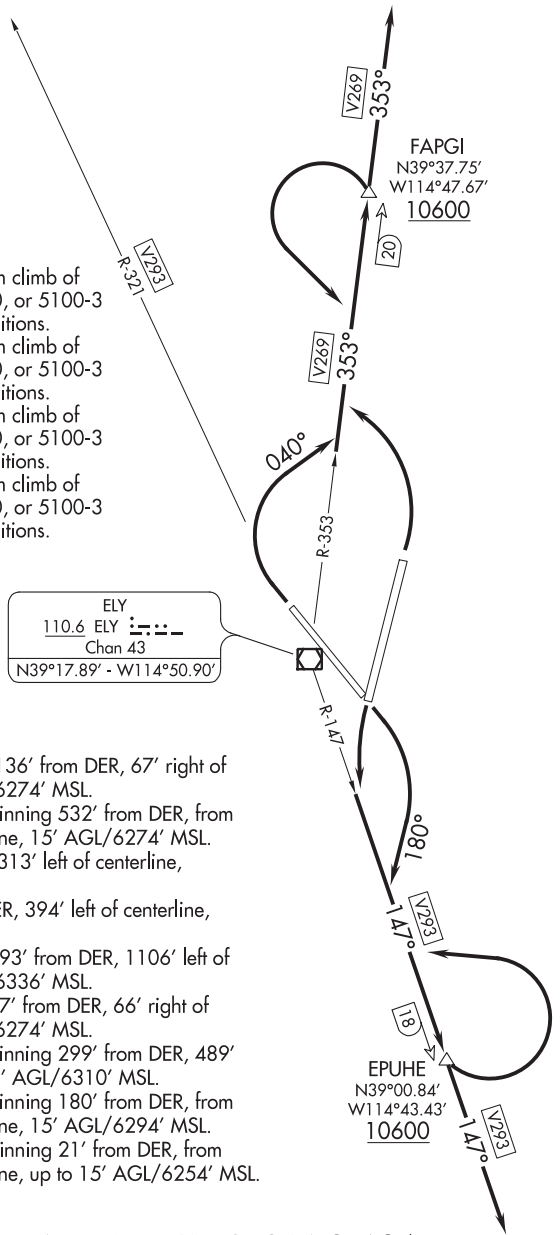
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
ELY, NEVADA
ELY ARPT-YELLAND FLD (ELY)

ELY TWO DEPARTURE (OBSTACLE)

SL-5163 (FAA)

ASOS
120.625
SALT LAKE CENTER
133.45 317.625
UNICOM
122.8



TAKEOFF MINIMUMS

Rwy 12: Standard with minimum climb of 280′ per NM to 10600, or 5100-3 for climb in visual conditions.
Rwy 18: Standard with minimum climb of 267′ per NM to 10600, or 5100-3 for climb in visual conditions.
Rwy 30: Standard with minimum climb of 539′ per NM to 10600, or 5100-3 for climb in visual conditions.
Rwy 36: Standard wtih minimum climb of 238′ per NM to 10600, or 5100-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 12: Aircraft on taxiway, 136′ from DER, 67′ right of centerline, 15′ AGL/6274′ MSL.
Vehicles on road beginning 532′ from DER, from left to right of centerline, 15′ AGL/6274′ MSL.
Pole 981′ from DER, 313′ left of centerline, 40′ AGL/6295′ MSL.
Tower 2617′ from DER, 394′ left of centerline, 64′ AGL/6334′ MSL.
Antenna on tower 2893′ from DER, 1106′ left of centerline, 66′ AGL/6336′ MSL.
Rwy 18: Aircraft on taxiway 17′ from DER, 66′ right of centerline, 15′ AGL/6274′ MSL.
Multiple hangars beginning 299′ from DER, 489′ right of centerline, 35′ AGL/6310′ MSL.
Vehicles on road beginning 180′ from DER, from left to right of centerline, 15′ AGL/6294′ MSL.
Rwy 30: Vehicles on road beginning 21′ from DER, from left to right of centerline, up to 15′ AGL/6254′ MSL.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climbing right turn heading 180° to intercept ELY VOR/DME R-147 to EPUHE/ELY 18 DME, cross EPUHE at or above 10600. Departures V293 southeast bound, continue climb on course to MEA. Departures V269 or V293 northbound, climbing left turn to intercept ELY VOR/DME R-147, continue climb to 12000 to ELY VOR/DME then proceed on course. Do not exceed 250K until completion of turn at EPUHE; or for climb in visual conditions, cross Ely Airport at or above 11200 before proceeding on course.

TAKEOFF RUNWAY 18: Climbing left turn to intercept ELY VOR/DME R-147 to EPUHE, cross EPUHE at or above 10600. Departures V293 southeast bound, continue climb on course to MEA. Departures V269 or V293 northbound, climbing left turn to intercept ELY VOR/DME R-147, continue climb to 12000 to ELY VOR/DME then proceed on course. Do not exceed 250K until completion of turn at EPUHE; or for climb in visual conditions, cross Ely Airport at or above 11200 before proceeding on course.

TAKEOFF RUNWAY 30: Climbing right turn heading 040° to intercept ELY VOR/DME R-353 to FAPGI/ELY 20 DME, cross FAPGI at or above 10600. Departures V269 northbound proceed on course; departures V293 northwest or southeast bound climbing left turn to intercept ELY VOR/DME R-353, continue climb to 12000 to ELY VOR/DME then proceed on course. Do not exceed 250K until completion of turn at FAPGI; or for climb in visual conditions, cross Ely Airport at or above 11200 before proceeding on course.

TAKEOFF RUNWAY 36: Climbing left turn to intercept ELY VOR/DME R-353 to FAPGI, cross FAPGI at or above 10600. Departures V269 northbound proceed on course; departures V293 northwest or southeast bound climbing left turn to intercept ELY VOR/DME R-353, continue climb to 12000 to ELY VOR/DME then proceed on course. Do not exceed 250K until completion of turn at FAPGI; or for climb in visual conditions, cross Ely Airport at or above 11200 before proceeding on course.

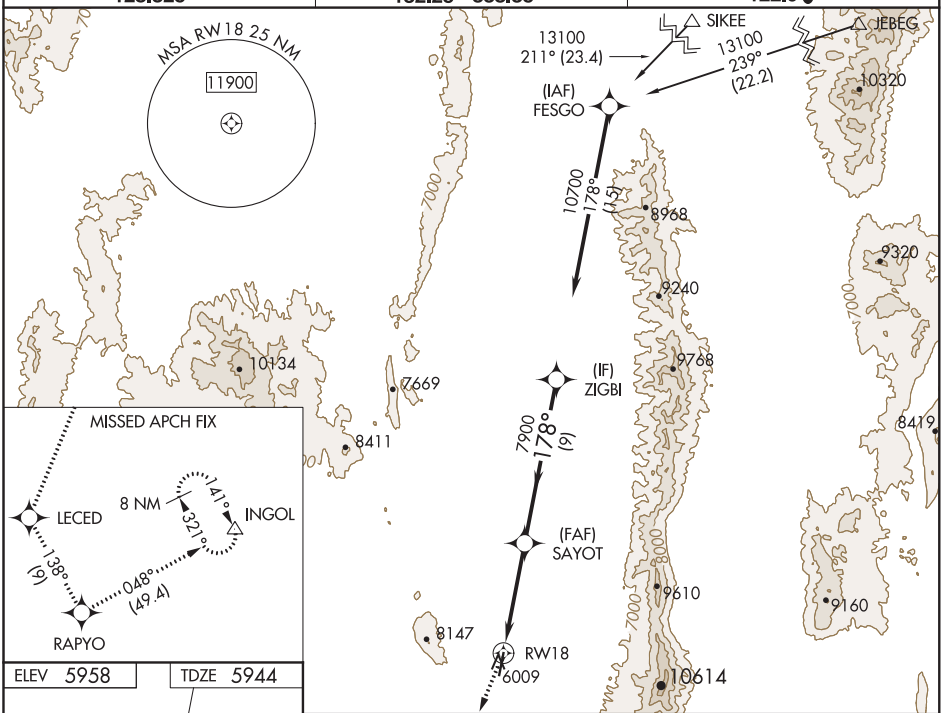
RNAV (GPS) RWY 18
EUREKA (05U)

WAAS CH 42732 W18A	APP CRS 178°	Rwy ldg 7300 TDZE 5944 Apt Elev 5958

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA. Circling NA for Cat D west of Rwy 18-36.
-17°C *Missed approach requires minimum climb of 390 feet per NM to 9200.

MISSED APPROACH: Climbing right turn to 14000 direct LECED and on track 138° to RAPYO and on track 048° to INGOL and hold.

AWOS-3	SALT LAKE CENTER	CTAF
128.325	132.25 338.35	122.9 L



CATEGORY	A	B	C	D
LP MDA*	6360-1 416 (500-1)		6360-1⅛ 416 (500-1⅛)	
LP MDA	7660-1¼ 1716 (1800-1¼)	7660-1½ 1716 (1800-1½)	7660-3 1716 (1800-3)	
LNAV MDA*	6380-1 436 (500-1)		6380-1¼ 436 (500-1¼)	
LNAV MDA	7820-1¼ 1876 (1900-1¼)	7820-1½ 1876 (1900-1½)	7820-3 1876 (1900-3)	
C CIRCLING	7820-1¼ 1862 (1900-1¼)	7820-1½ 1862 (1900-1½)	7820-3 1862 (1900-3)	

HIRL Rwy 18-36 L
REIL Rwys 18 and 36 L

SW-4, 05 NOV 2020 to 31 DEC 2020

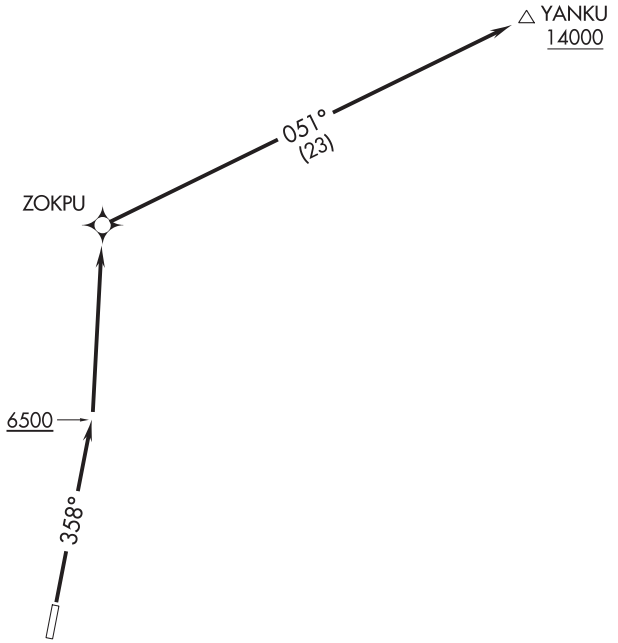
(MINES1.MINES) 16315

MINES ONE DEPARTURE (OBSTACLE) (RNAV)

SL-9852 (FAA)

EUREKA (Ø5U)
EUREKA, NEVADA

NORCAL DEP CON
119.2 279.55
SALT LAKE CENTER
132.25 338.35
CTAF
122.9
RENO RADIO
122.3



NOTE: GPS required.

NOTE: RNAV-1.

TAKEOFF MINIMUMS
Rwy 18: NA - Terrain
Rwy 36: Standard.

TAKEOFF OBSTACLE NOTES
Rwy 36: Pole 34′ from DER, 338′ left of centerline, 8′ AGL/5942′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 36: Climb heading 358° to 6500 then direct ZOKPU, then on track 051° to YANKU. Thence . . .

. . . Maintain 14000 or assigned altitude. Expect filed altitude 10 minutes after departure.

RNAV (GPS)-C
FALLON MUNI (FLX)

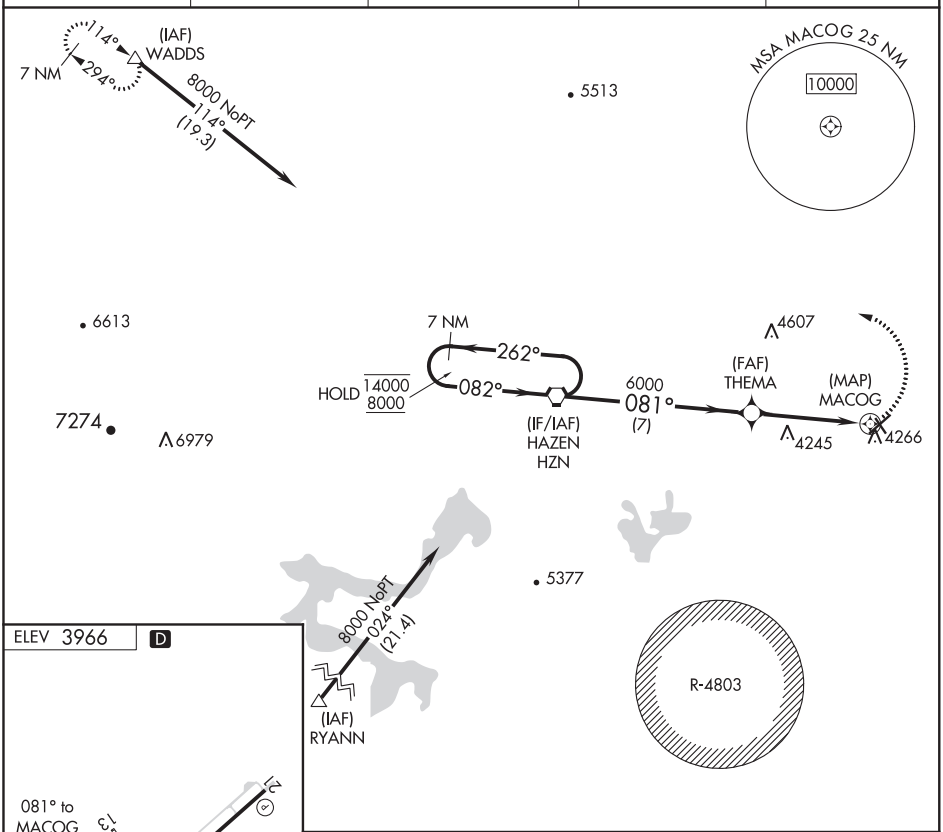
APP CRS	Rwy ldg	N/A
081°	TDZE	N/A
	Apt Elev	3966

RNP APCH.

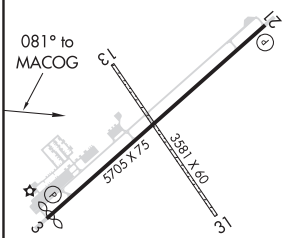
Circling NA to Rwys 13 and 31. Circling to Rwy 21 NA at night. When local altimeter not received, use Fallon NAS altimeter setting.

MISSED APPROACH: Climbing left turn to 10100 direct WADDS and hold, continue climb-in-hold 10100.

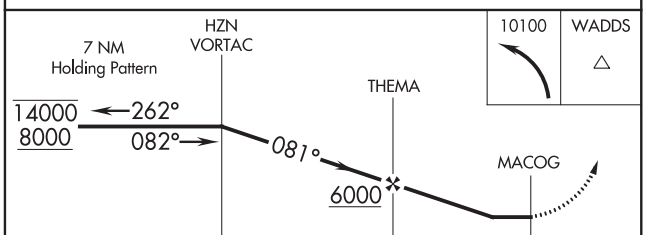
AWOS-AV	NFL ATIS ★	NAVY FALLON APP CON ★	OAKLAND CENTER	UNICOM
118.25	370.925	120.85 360.2	128.8 285.5	122.8 (CTAF)



ELEV 3966 D



MIRL Rwy 3-21



CATEGORY	A	B	C	D
C CIRCLING	4620-1 654 (700-1)		4620-1¾ 654 (700-1¾)	4620-2 654 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC HZN 114.1 Chan 88	APP CRS 078°	Rwy ldg N/A TDZE N/A Apt Elev 3966

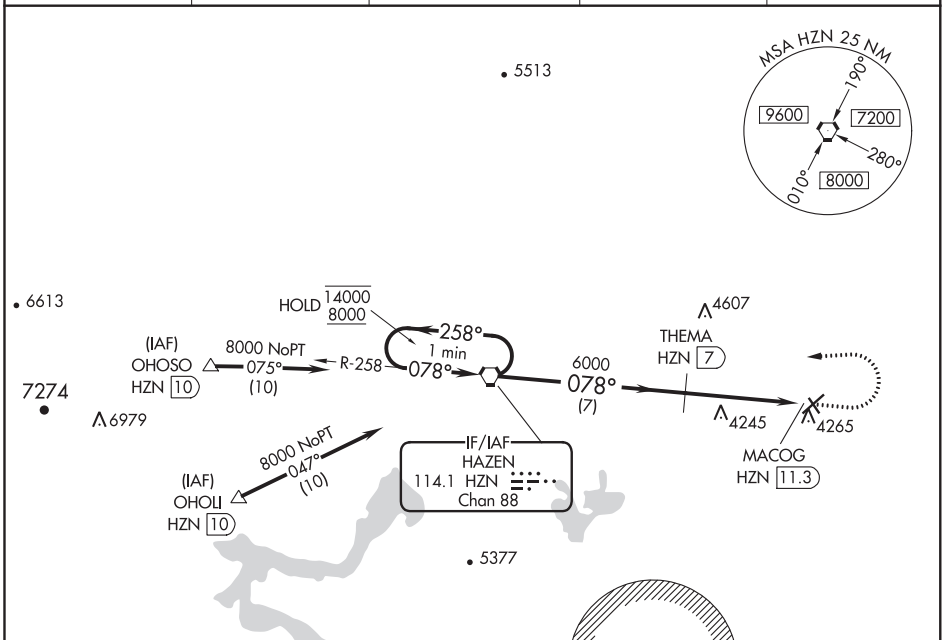
VOR-B
FALLON MUNI (FLX)

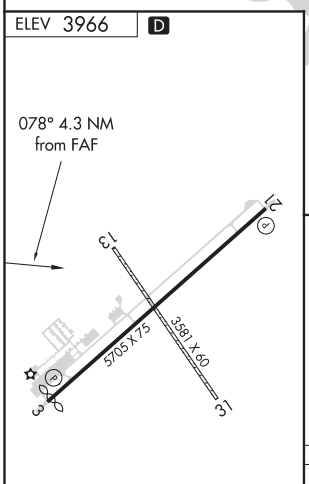
DME required.

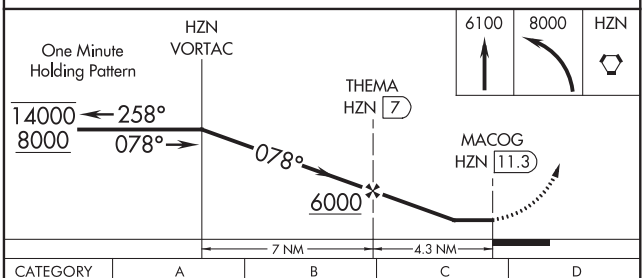
Circling NA to Rwys 13 and 31. Circling to Rwy 21 NA at night. When local altimeter not received, use Fallon NAS altimeter setting.

MISSED APPROACH: Climb to 6100 then climbing left turn to 8000 direct HZN VORTAC and hold.

AWOS-AV	NFL ATIS ★	NAVY FALLON APP CON ★	OAKLAND CENTER	UNICOM
118.25	370.925	120.85 360.2	128.8 285.5	122.8 (CTAF)



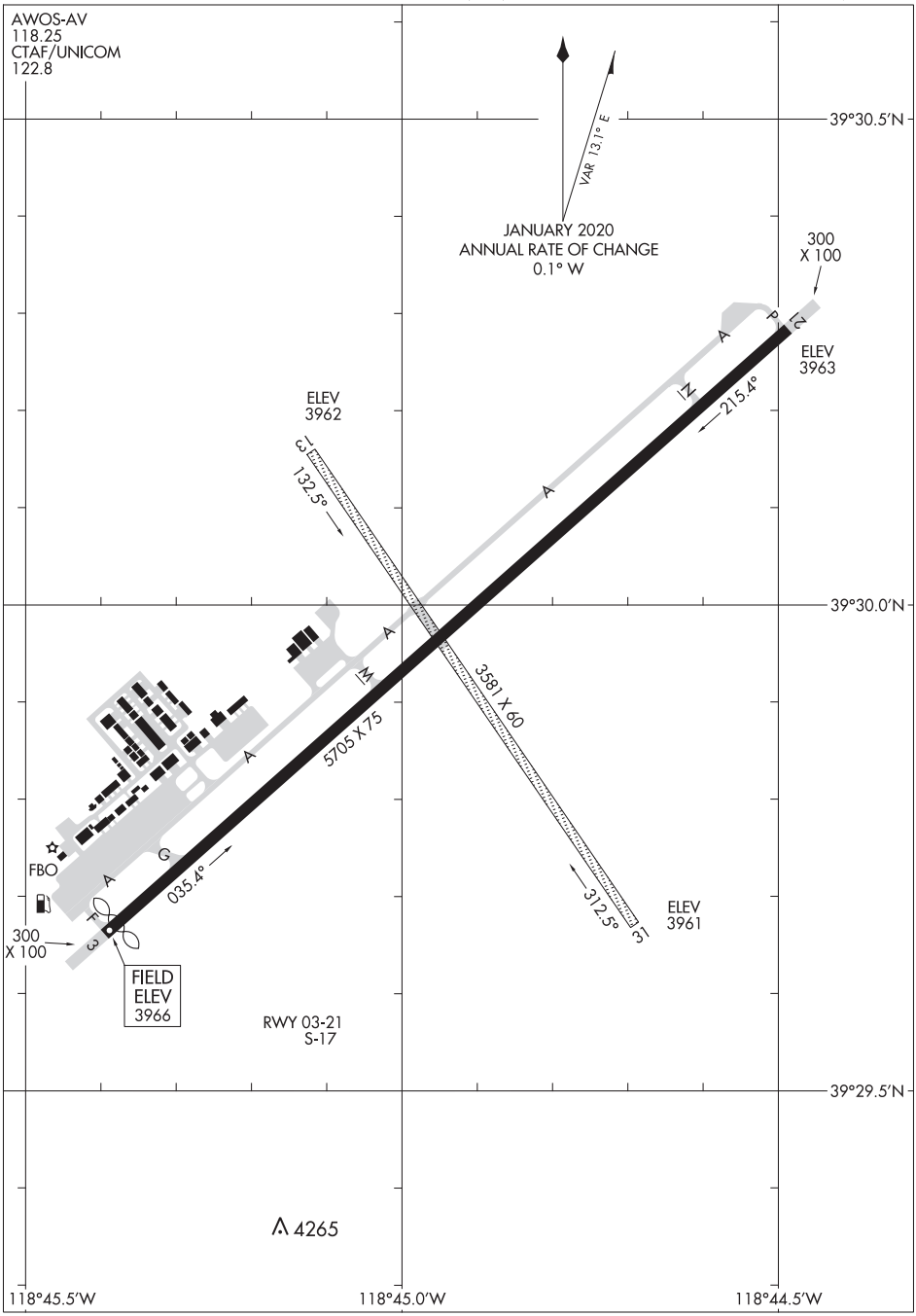




CATEGORY	A	B	C	D
C CIRCLING	4620-1 654 (700-1)		4620-1¾ 654 (700-1¾)	4620-2 654 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-786 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

19339

FALLON, NEVADA

RNAV (GPS) RWY 13R

APCH CRS	Rwy ldg	14,001
131°	TDZE	3935
	Arpt Elev	3935

AL-143 (USN)

FALLON NAS (VAN VOORHIS FLD) (KNFL)

† MISSED APPROACH: Climb to 9800 direct HOROD and hold. Continue climb-in-hold. Max 175 KIAS until 9800. Missed apch requires minimum climb of 270 ft/nm to 9800.

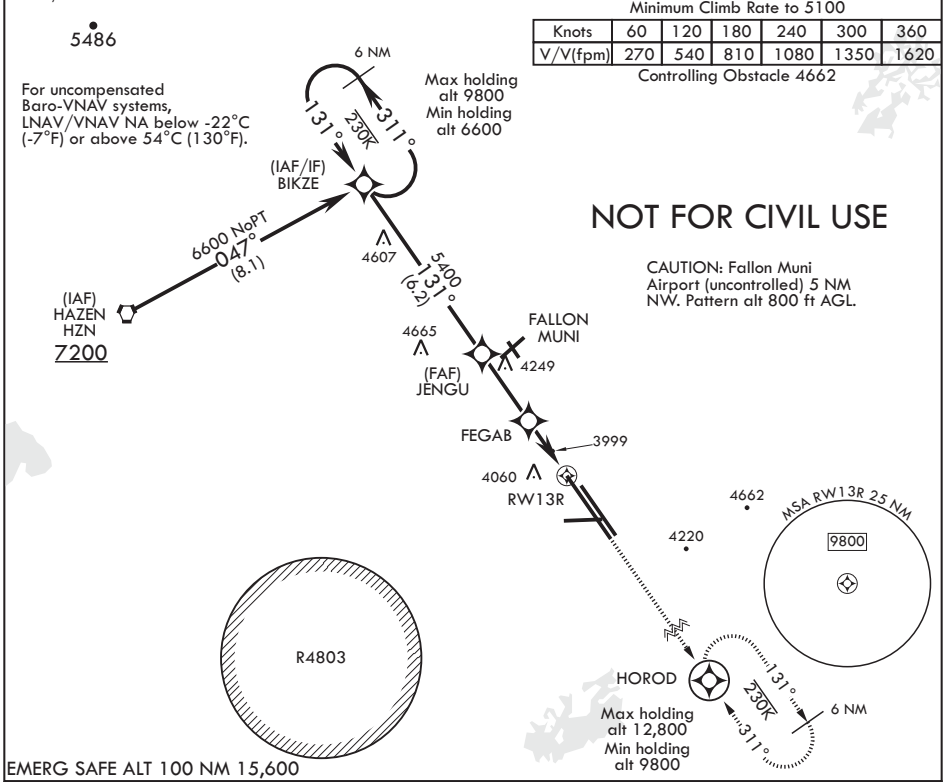
ATIS★	NAVY FALLON APP CON/DEP CON	NAVY FALLON TOWER★	GND CON	CLNC DEL	ASR/PAR
370.925	120.85 360.2	119.25 340.2	251.15	353.55	

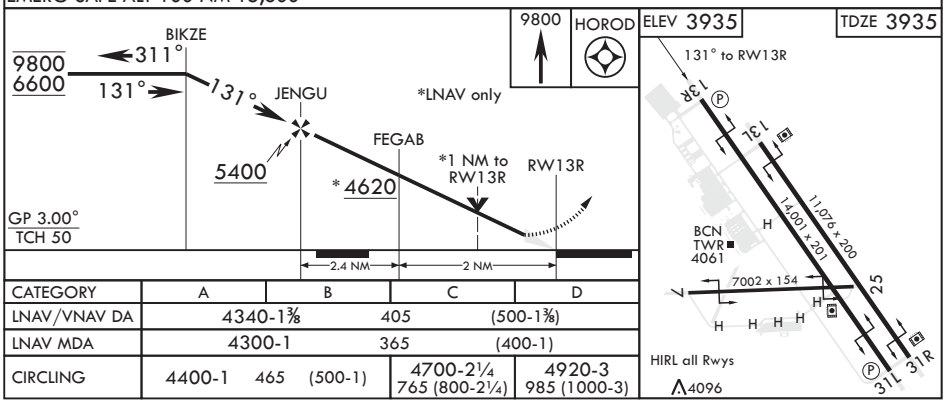
DME/DME RNP-0.3 NA

† CAUTION: Missed Approach Minimum Climb Rate to 5100

Knots	60	120	180	240	300	360
V/V(fpm)	270	540	810	1080	1350	1620

Controlling Obstacle 4662





CATEGORY	A	B	C	D
LNAV/VNAV DA	4340-1⅜ 405 (500-1⅜)			
LNAV MDA	4300-1 365 (400-1)			
CIRCLING	4400-1 465 (500-1)		4700-2¼ 765 (800-2¼)	4920-3 985 (1000-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FALLON, NEVADA

RNAV (GPS) RWY 31L

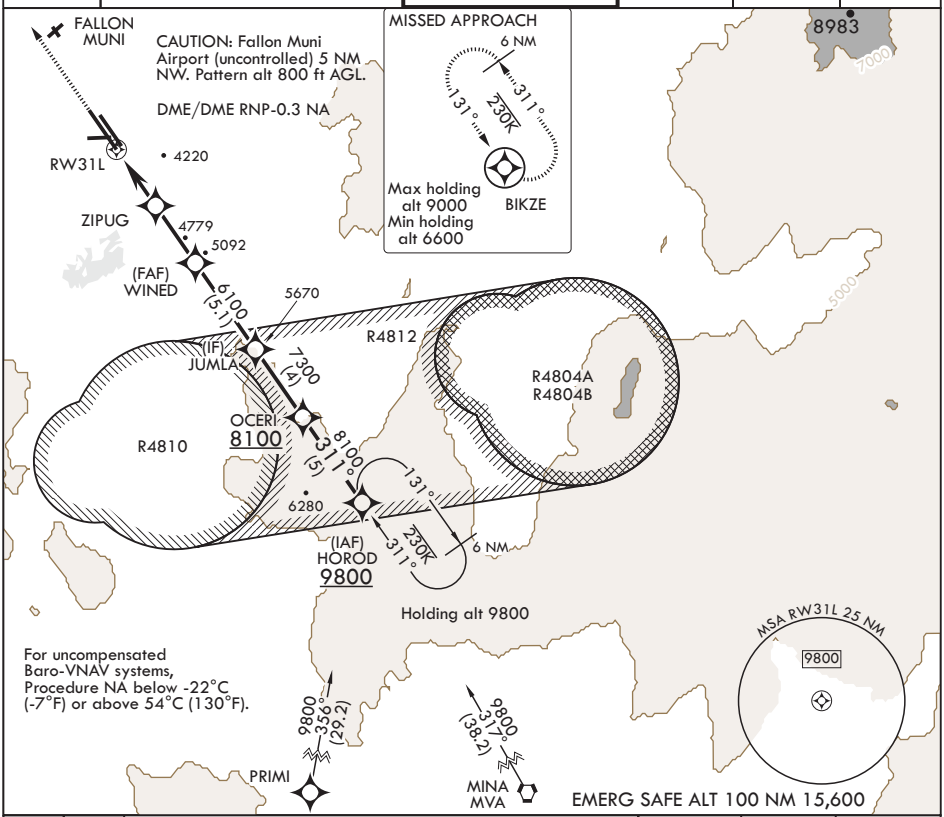
APCH CRS 311°	Rwy ldg 14,001	TDZE 3927	Arpt Elev 3935

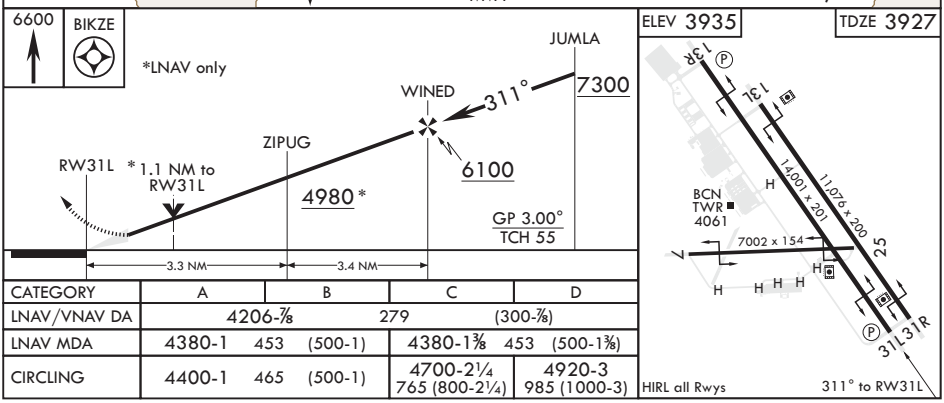
AL-143 (USN)

FALLON NAS (VAN VOORHIS FLD) (KNFL)

MISSED APPROACH: Climb to 6600 direct BIKZE and hold.

ATIS★	NAVY FALLON APP CON/DEP CON	NAVY FALLON TOWER★	GND CON	CLNC DEL	ASR/PAR
370.925	120.85 360.2	119.25 340.2	251.15	353.55	





CATEGORY	A	B	C	D
LNAV/VNAV DA	4206-⅞ 279 (300-⅞)			
LNAV MDA	4380-1 453 (500-1)		4380-1⅜ 453 (500-1⅜)	
CIRCLING	4400-1 465 (500-1)		4700-2¼ 765 (800-2¼)	4920-3 985 (1000-3)

FALLON, NEVADA

Amdt 2 03JAN19

39°25'N - 118°42'W

FALLON NAS (VAN VOORHIS FLD) (KNFL)

RNAV (GPS) RWY 31L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

19339

FALLON, NEVADA

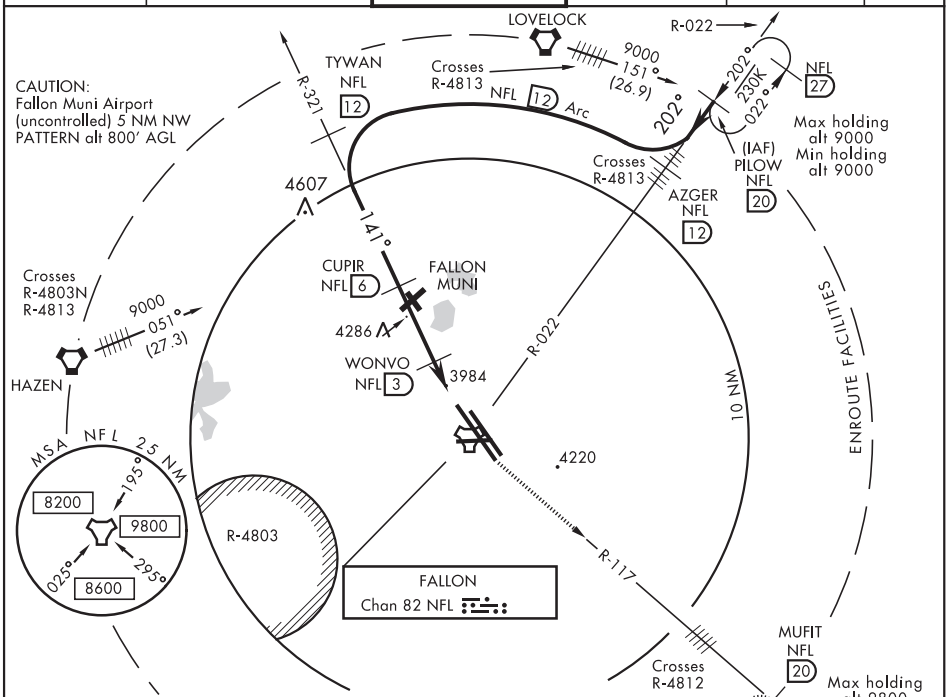
TACAN RWY 13R

TACAN NFL Chan 82	APCH CRS 141°	Rwy ldg 14,001 TDZE 3935 Arpt Elev 3935

AL-143 [USN] FALLON NAS (VAN VOORHIS FLD) (KNFL)

† MISSED APPROACH: Climb direct NFL TACAN, then climbing left turn to 9800. Intercept NFL R-117 outbound to MUFIT and hold. Continue climb-in-hold to 9800.

ATIS ★	NAVY FALLON APP CON	NAVY FALLON TOWER★	GND CON	CLNC DEL	ASR/PAR
370.925	120.85 360.2	119.25 340.2	251.15	353.55	



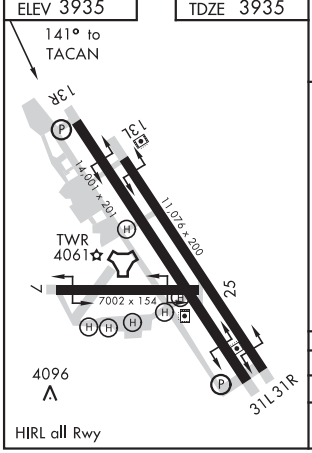
EMERG SAFE ALT 100 NM 15,600

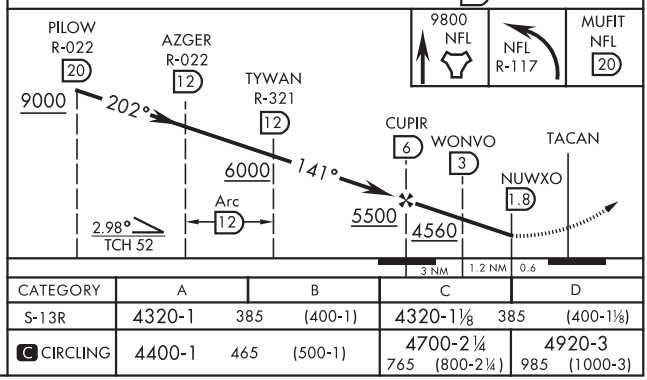
†CAUTION: Missed Approach Minimum Climb Rate to 9800

Knots	60	120	180	240	300	360
V/V(fpm)	220	440	660	880	1100	1320

ATC Minimum Climb Rate

ELEV 3935	TDZE 3935





CATEGORY	A	B	C	D
S-13R	4320-1 385 (400-1)		4320-1⅛ 385 (400-1⅛)	
C CIRCLING	4400-1 465 (500-1)		4700-2¼ 765 (800-2¼)	4920-3 985 (1000-3)

FALLON, NEVADA

Amdt 2 03JAN19

39° 25'N-118° 42'W FALLON NAS (VAN VOORHIS FLD) (KNFL)

TACAN RWY 13R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FALLON, NEVADA

TACAN RWY 31L/R

TACAN NFL Chan 82	APCH CRS 297°	Rwy ldg 31L 14,001 31R 11,076 TDZE 31L 3927 31R 3928 Arpt Elev 3935

AL-143 [USN] FALLON NAS (VAN VOORHIS FLD) (KNFL)

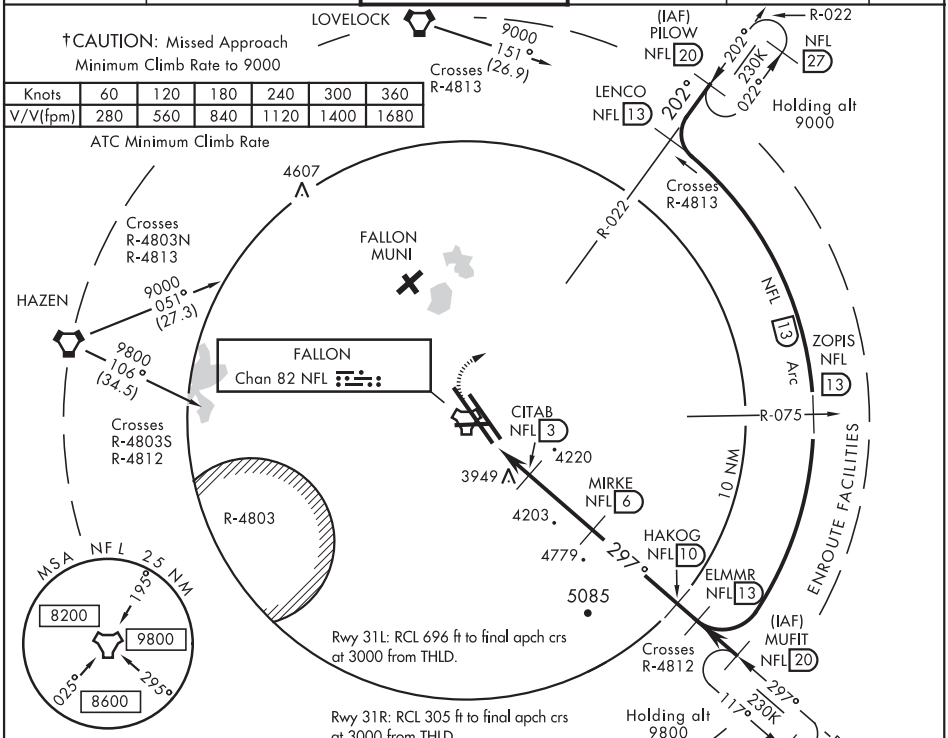
† MISSED APPROACH: Climb direct NFL TACAN, then climbing right turn to 9000. Intercept NFL R-022 outbound to PILOW and hold. Missed approach requires minimum climb of 280 ft/NM to 9000.

ATIS ★	NAVY FALLON APP CON	NAVY FALLON TOWER ★	GND CON	CLNC DEL	ASR/PAR
370.925	120.85 360.2	119.25 340.2	251.15	353.55	

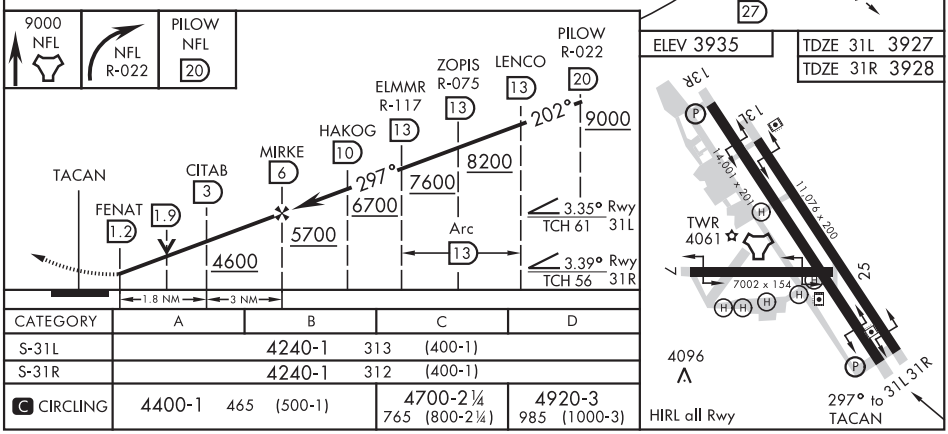
†CAUTION: Missed Approach Minimum Climb Rate to 9000

Knots	60	120	180	240	300	360
V/V(fpm)	280	560	840	1120	1400	1680

ATC Minimum Climb Rate



EMERG SAFE ALT 100 NM 15,600



CATEGORY	A	B	C	D
S-31L	4240-1 313 (400-1)			
S-31R	4240-1 312 (400-1)			
C CIRCLING	4400-1 465 (500-1)		4700-2¼ 765 (800-2¼)	4920-3 985 (1000-3)

FALLON, NEVADA 39° 25′N-118° 42′W FALLON NAS (VAN VOORHIS FLD) (KNFL)

Amdt 2 28FEB19

TACAN RWY 31L/R

SW-4, 05 NOV 2020 to 31 DEC 2020

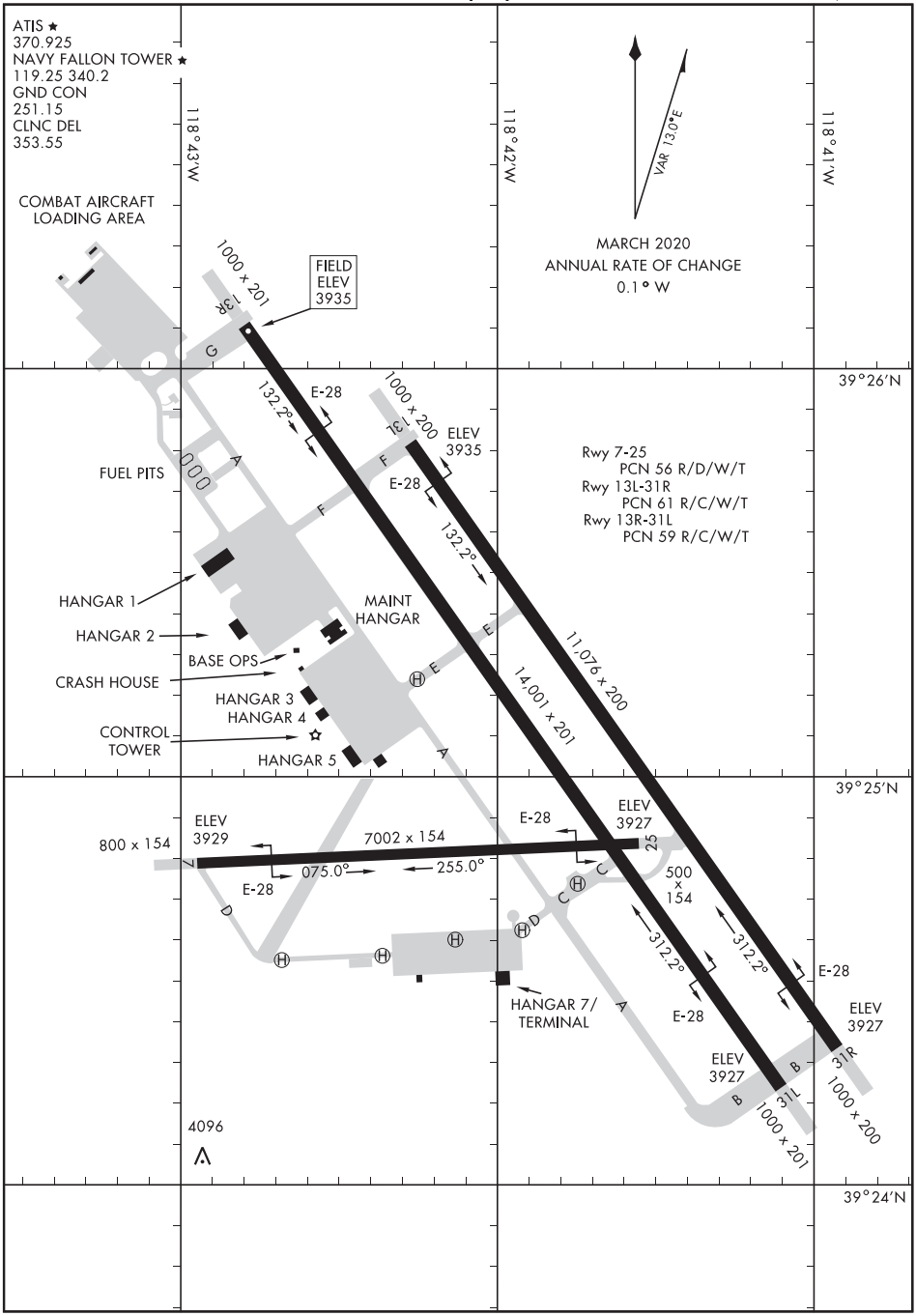
20086

AIRPORT DIAGRAM

FALLON NAS (VAN VOORHIS FLD) (KNFL)

AFD-143 [USN]

FALLON, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

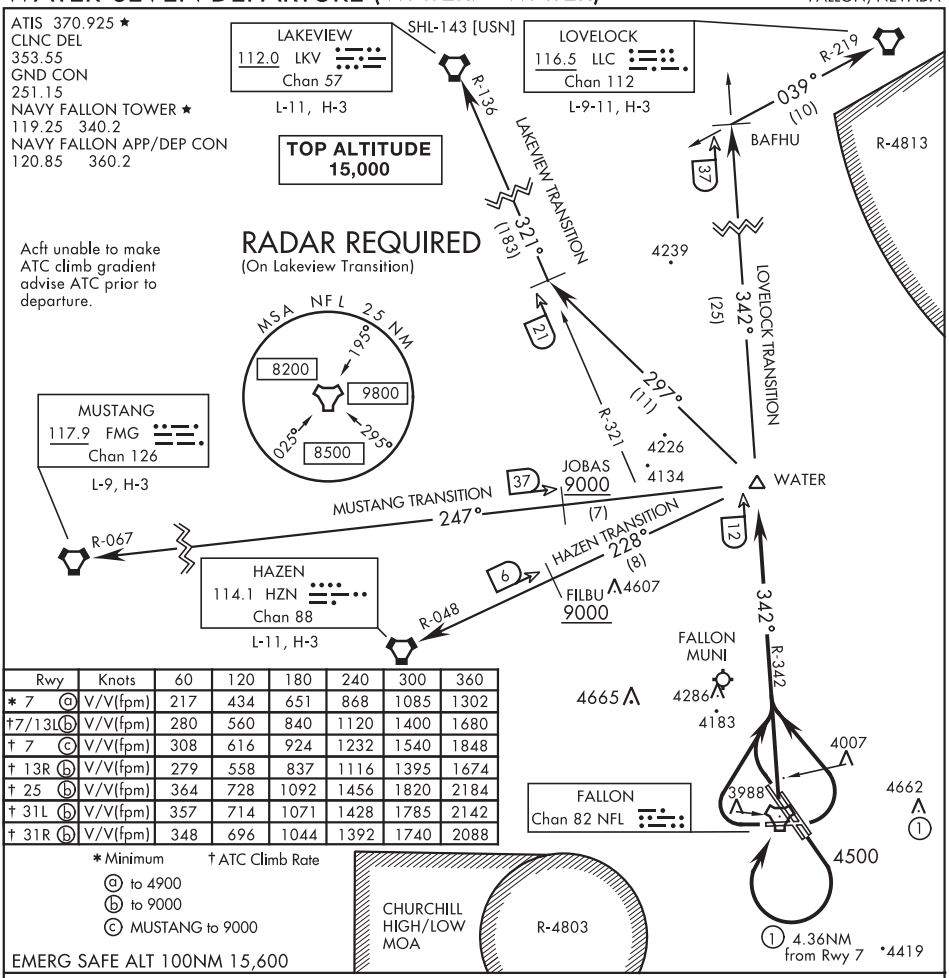
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

FALLON, NEVADA

FALLON NAS (VAN VOORHIS FLD) (KNFL)

WATER-SEVEN DEPARTURE (WATER7 • WATER)



Rwy	Knots	60	120	180	240	300	360
* 7 ⓐ	V/V(fpm)	217	434	651	868	1085	1302
†7/13L ⓑ	V/V(fpm)	280	560	840	1120	1400	1680
† 7 ⓒ	V/V(fpm)	308	616	924	1232	1540	1848
† 13R ⓑ	V/V(fpm)	279	558	837	1116	1395	1674
† 25 ⓑ	V/V(fpm)	364	728	1092	1456	1820	2184
† 31L ⓑ	V/V(fpm)	357	714	1071	1428	1785	2142
† 31R ⓑ	V/V(fpm)	348	696	1044	1392	1740	2088

* Minimum † ATC Climb Rate
ⓐ to 4900
ⓑ to 9000
ⓒ MUSTANG to 9000

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 7: Climbing left turn to intercept NFL TACAN R-342 to WATER. (Right turn-out not authorized). Do not exceed 250 KIAS until WATER.

TAKE-OFF RWY 13L/R: Climb to 4500, then climbing right turn to NFL TACAN, intercept NFL R-342 to WATER. Do not exceed 250 KIAS until WATER.

TAKE-OFF RWY 25: Turn right intercept NFL TACAN R-342 to WATER.

TAKE-OFF RWY 31L/R: Climbing right turn to intercept NFL TACAN R-342 to WATER. Do not exceed 250 KIAS until WATER.

(Continued on next page)

SW-4, 05 NOV 2020 to 31 DEC 2020

SHL-143 [USN]

DEPARTURE ROUTE DESCRIPTION
(Continued)

HAZEN TRANSITION (WATER7·HZN): Fly HZN VORTAC R-048 to HZN. Maintain 250 KIAS until FILBU. Cross FILBU (HZN R-048/6 DME) at or above 9000, cross HAZEN at or or below 15,000 or as assigned by ATC.

LAKEVIEW TRANSITION (WATER7·LKV): Turn left direct NFL VORTAC R-321/21 DME, intercept NFL R-321/LKV VORTAC R-136 to LKV. Maintain 250 KIAS until intercepting NFL R-321. Cross R-321/21 DME at or below 15,000 or as assigned by ATC.

LOVELOCK TRANSITION (WATER7·LLC): Fly NFL R-342 and LLC VORTAC R-219 to LLC. Cross BAFHU at or below 15,000 or as assigned by ATC.

MUSTANG TRANSITION (WATER7·FMG): Fly FMG VORTAC R-067 to FMG. Maintain 250 KIAS until WATER. Cross JOBAS (FMG R-067/37 DME) at or above 9000, cross Mustang at or below 15,000 or as assigned by ATC.

YERIN-SEVEN DEPARTURE (YERIN7 • YERIN)

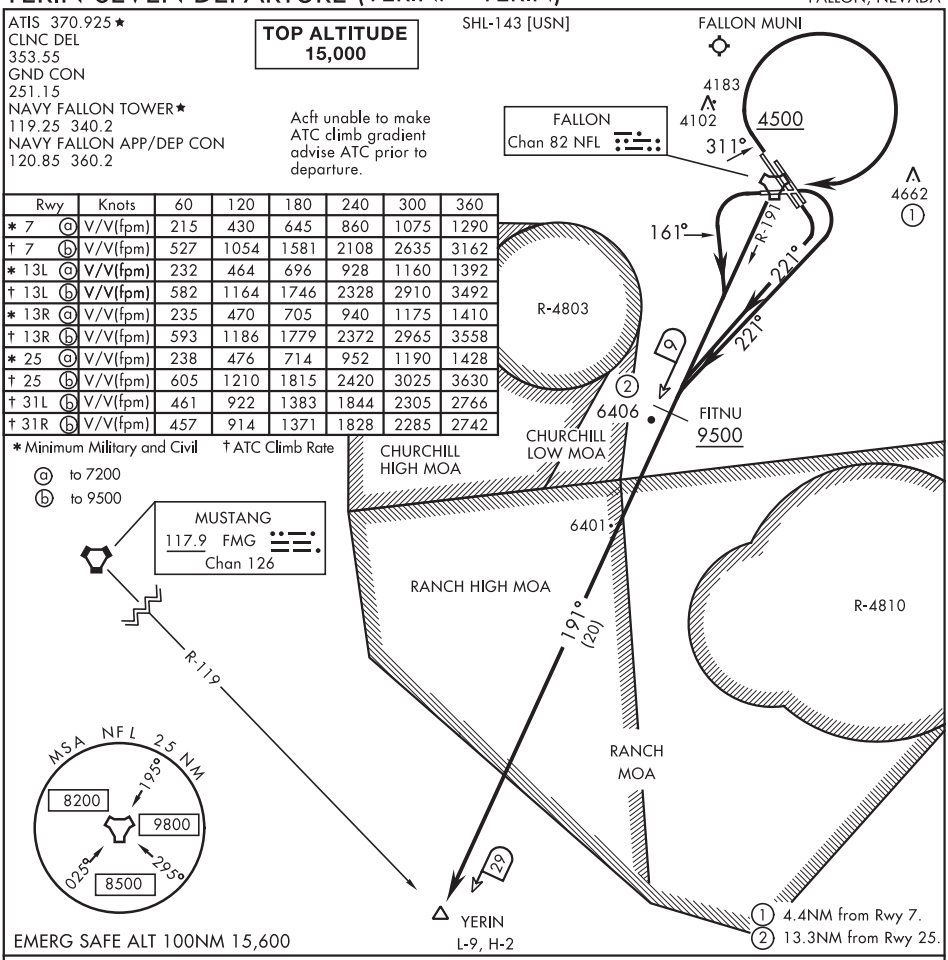
ATIS 370.925★
CLNC DEL
353.55
GND CON
251.15
NAVY FALLON TOWER★
119.25 340.2
NAVY FALLON APP/DEP CON
120.85 360.2

TOP ALTITUDE 15,000

Acft unable to make ATC climb gradient advise ATC prior to departure.

Rwy	Knots	60	120	180	240	300	360
* 7 ⓐ	V/V(fpm)	215	430	645	860	1075	1290
† 7 ⓑ	V/V(fpm)	527	1054	1581	2108	2635	3162
* 13L ⓐ	V/V(fpm)	232	464	696	928	1160	1392
† 13L ⓑ	V/V(fpm)	582	1164	1746	2328	2910	3492
* 13R ⓐ	V/V(fpm)	235	470	705	940	1175	1410
† 13R ⓑ	V/V(fpm)	593	1186	1779	2372	2965	3558
* 25 ⓐ	V/V(fpm)	238	476	714	952	1190	1428
† 25 ⓑ	V/V(fpm)	605	1210	1815	2420	3025	3630
† 31L ⓑ	V/V(fpm)	461	922	1383	1844	2305	2766
† 31R ⓑ	V/V(fpm)	457	914	1371	1828	2285	2742

* Minimum Military and Civil † ATC Climb Rate
ⓐ to 7200
ⓑ to 9500



EMERG SAFE ALT 100NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 7: Turn right hdg 221° to intercept NFL TACAN R-191 to YERIN. Cross FITNU at or above 9500. Do not exceed 250 KIAS until intercepting NFL R-191.

TAKE-OFF RWY 13L/R: Climbing right turn hdg 221° to interecpt NFL R-191 to YERIN. Cross FITNU at or above 9500. Do not exceed 250 KIAS until intercepting NFL R-191.

TAKE-OFF RWY 25: Climbing left turn hdg 161° to intercept NFL R-191 to YERIN. Cross FITNU at or above 9500. Do not exceed 250 KIAS until intercepting NFL R-191.

TAKE-OFF RWY 31L/R: Climb to 4500 via heading 311°, then climbing right turn to NFL TACAN, intercept NFL R-191 to YERIN. Do not exceed 250 KIAS until NFL TACAN. Cross FITNU at or above 9500.

FILLMORE, UTAH AL-10425 (FAA) 20254

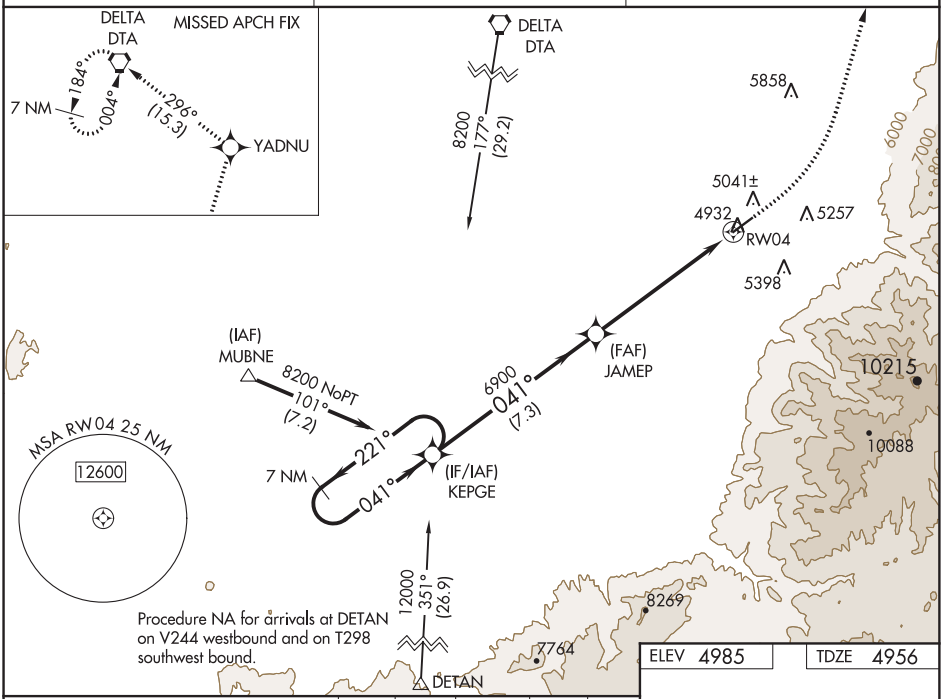
WAAS CH 42917 W04A	APP CRS 041°	Rwy ldg 5040 TDZE 4956 Apt Elev 4985

RNAV (GPS) RWY 4
FILLMORE MUNI (FOM)

T NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

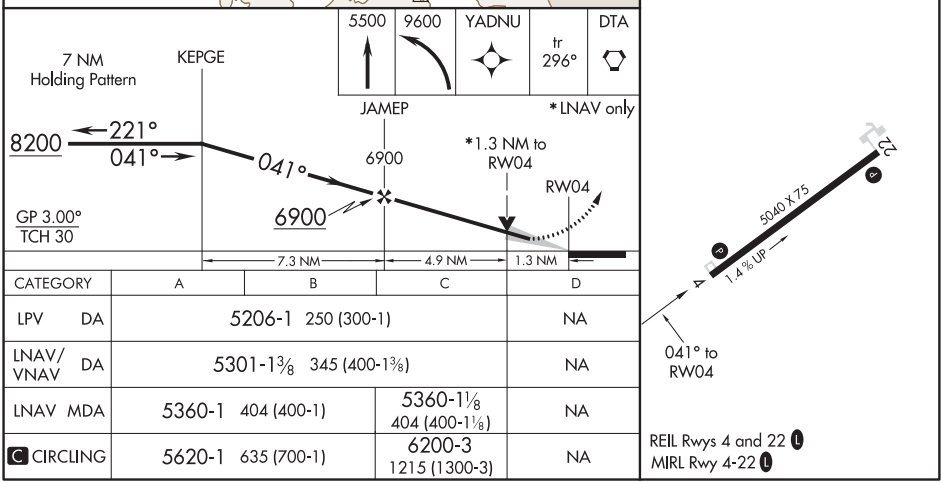
MISSED APPROACH: Climb to 5500 then climbing left turn to 9600 direct YADNU and on track 296° to DTA VORTAC and hold.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
133.775	125.575 379.275	122.8 (CTAF) L



Procedure NA for arrivals at DETAN on V244 westbound and on T298 southwest bound.

ELEV 4985 TDZE 4956



CATEGORY	A	B	C	D
LPV DA	5206-1 250 (300-1)			NA
LNAV/VNAV DA	5301-1⅜ 345 (400-1⅜)			NA
LNAV MDA	5360-1 404 (400-1)		5360-1⅛ 404 (400-1⅛)	NA
C CIRCLING	5620-1 635 (700-1)		6200-3 1215 (1300-3)	NA

REIL Rwys 4 and 22 L
MIRL Rwy 4-22 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 22
FILLMORE MUNI (FOM)

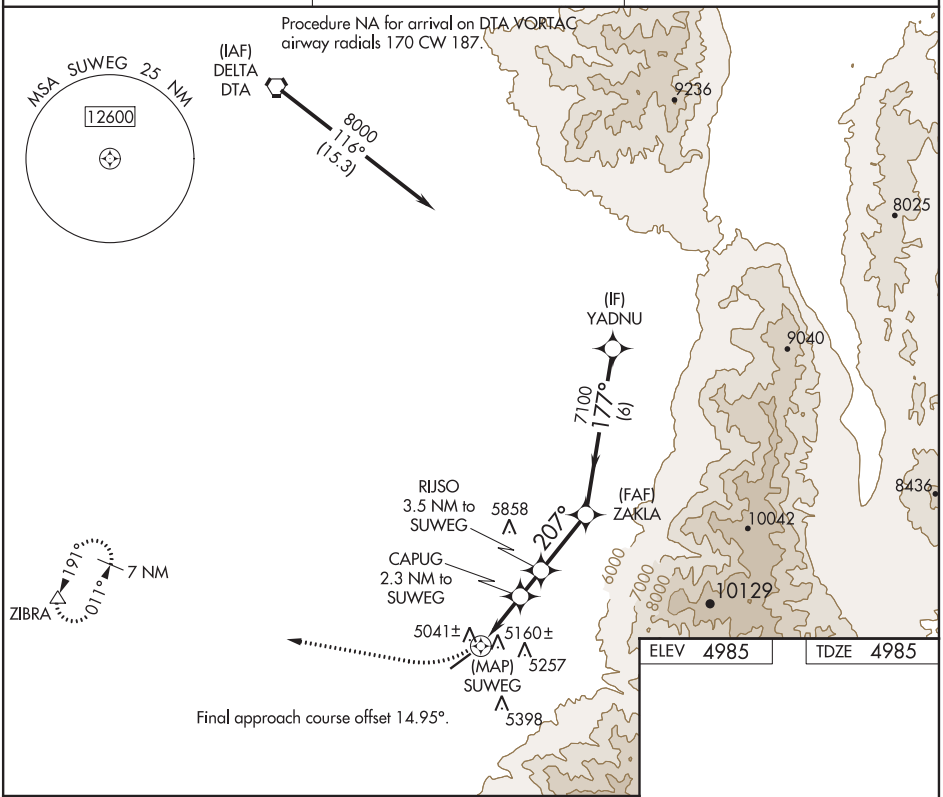
APP CRS	Rwy ldg	5040
207°	TDZE	4985
	Apt Elev	4985

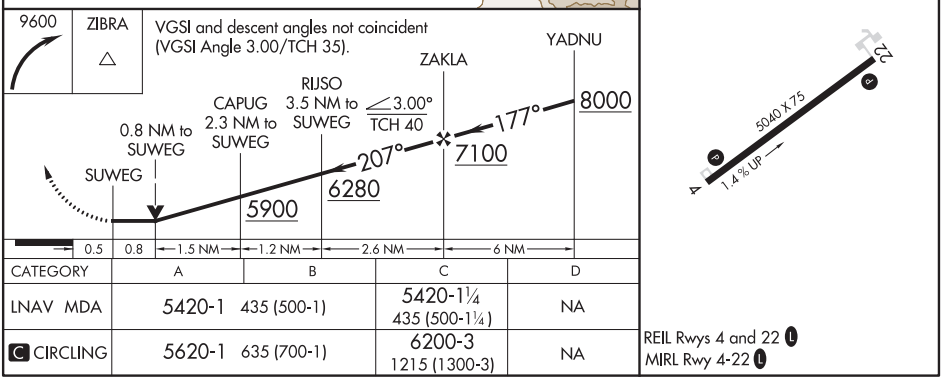
T NA

DME/DME RNP-0.3 NA.
Rwy 22 helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9600 direct ZIBRA and hold, continue climb-in-hold to 9600.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
133.775	125.575 379.275	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	5420-1 435 (500-1)		5420-1¼ 435 (500-1¼)	NA
C CIRCLING	5620-1 635 (700-1)		6200-3 1215 (1300-3)	NA

REIL Rwys 4 and 22 L
MIRL Rwy 4-22 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FLAGSTAFF, ARIZONA | AL-5034 (FAA) | 19115

ILS or LOC RWY 21
FLAGSTAFF PULLIAM (FLG)

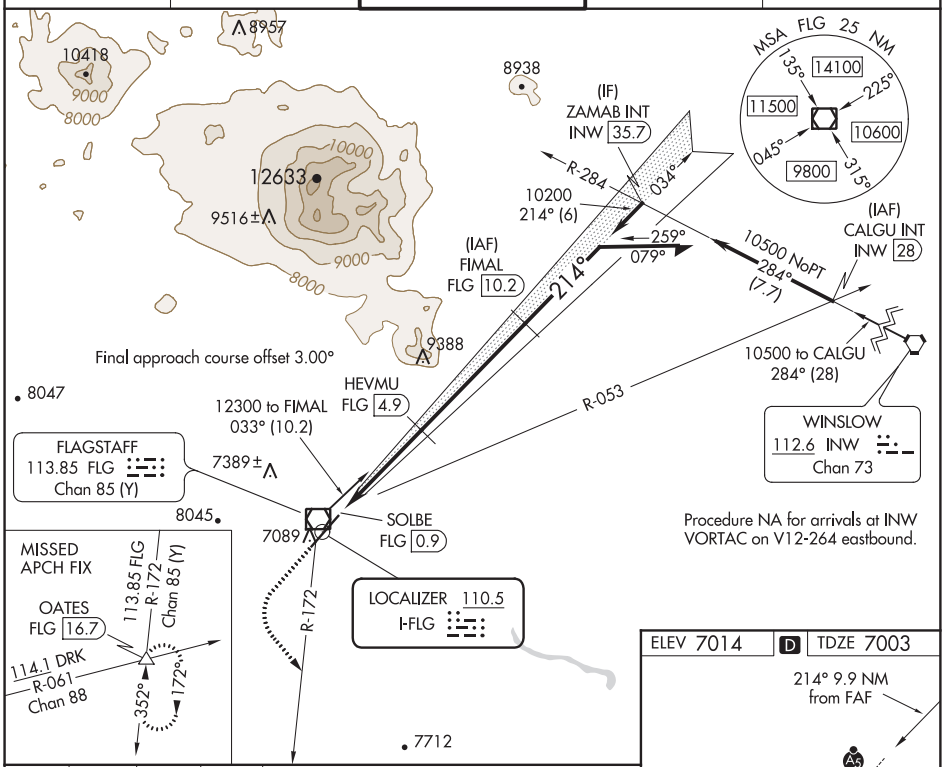
LOC I-FLG	APP CRS	Rwy ldg / TDZE / Apt Elev
110.5	214°	7000 / 7003 / 7014

Autopilot coupled approach NA below 7640 feet. DME required. DME from FLG VOR/DME. Simultaneous reception of I-FLG and FLG DME required. For inop ALS increase S-ILS 21 all Cats visibility to ⅞.

MALSR

MISSED APPROACH: Climb to 7500, then climbing left turn to 11000 on heading 130° and FLG R-172 to OATES INT/FLG VOR/DME 16.7 DME and hold, continue climb-in-hold to 11000.

ATIS	PHOENIX APP CON	FLAGSTAFF TOWER ★	GND CON	UNICOM
125.8	126.375 236.775	134.55 (CTAF) L 239.25	121.9	122.95



CATEGORY	A	B	C	D
S-ILS 21	7258-½ 255 (300-½)			
S-LOC 21	7340-½ 337 (400-½)			
C CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	8100-3 1086 (1100-3)	8560-3 1546 (1600-3)

HIRL Rwy 3-21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

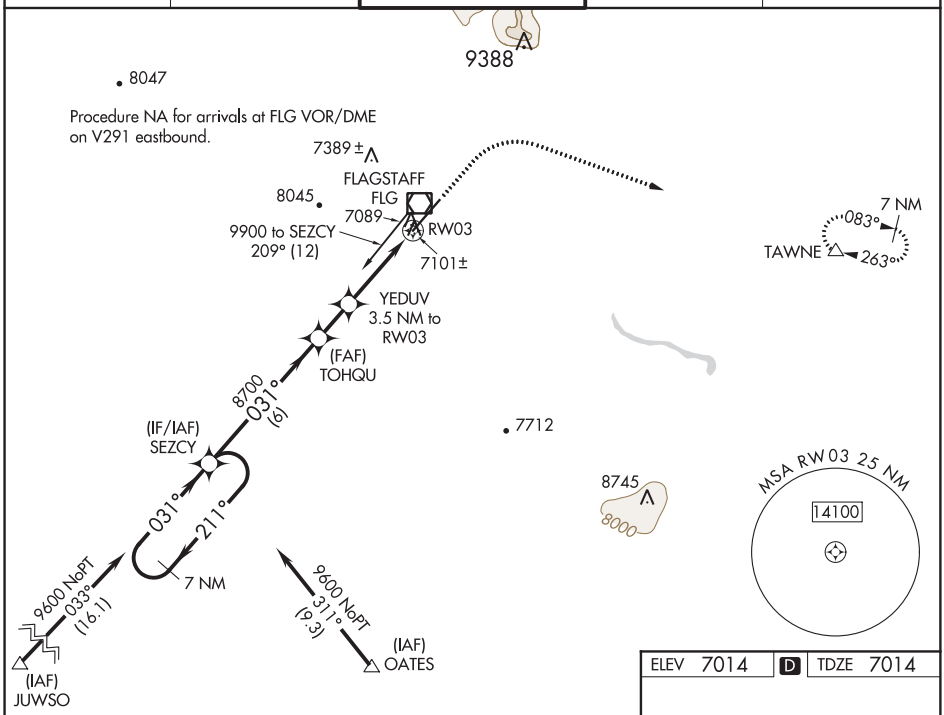
WAAS CH 45718 W03A	APP CRS 031°	Rwy ldg 8800 TDZE 7014 Apt Elev 7014

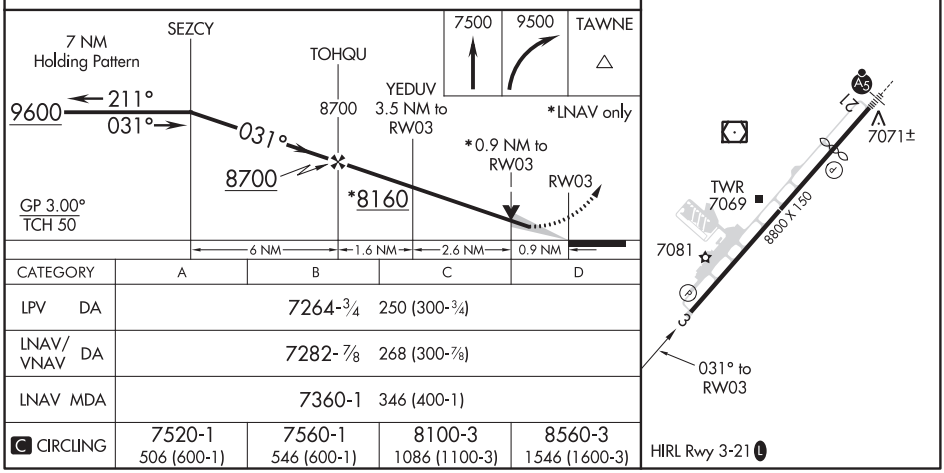
RNAV (GPS) RWY 3
FLAGSTAFF PULLIAM (FLG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (112°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 7500 then climbing right turn to 9500 direct TAWNE and hold.

ATIS	PHOENIX APP CON	FLAGSTAFF TOWER ★	GND CON	UNICOM
125.8	126.375 236.775	134.55 (CTAF) L 239.25	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	7264-¾ 250 (300-¾)			
LNAV/VNAV DA	7282-⅞ 268 (300-⅞)			
LNAV MDA	7360-1 346 (400-1)			
C CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	8100-3 1086 (1100-3)	8560-3 1546 (1600-3)

FLAGSTAFF, ARIZONA | AL-5034 (FAA) | 19115

RNAV (GPS) RWY 21
FLAGSTAFF PULLIAM (FLG)

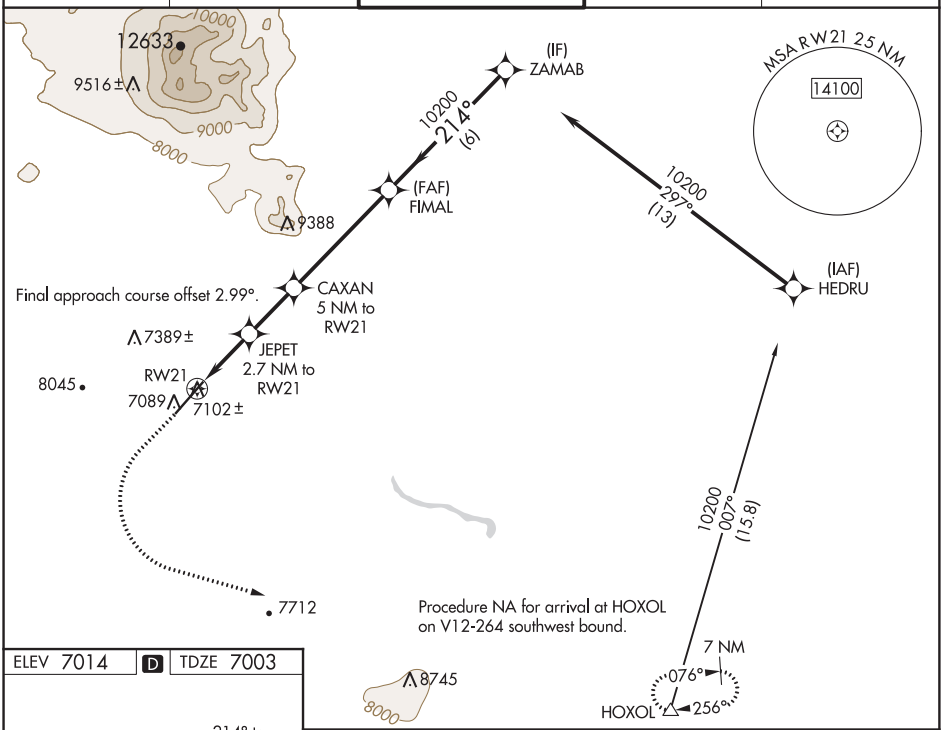
WAAS CH 99341 W21A	APP CRS 214°	Rwy ldg 7000 TDZE 7003 Apt Elev 7014

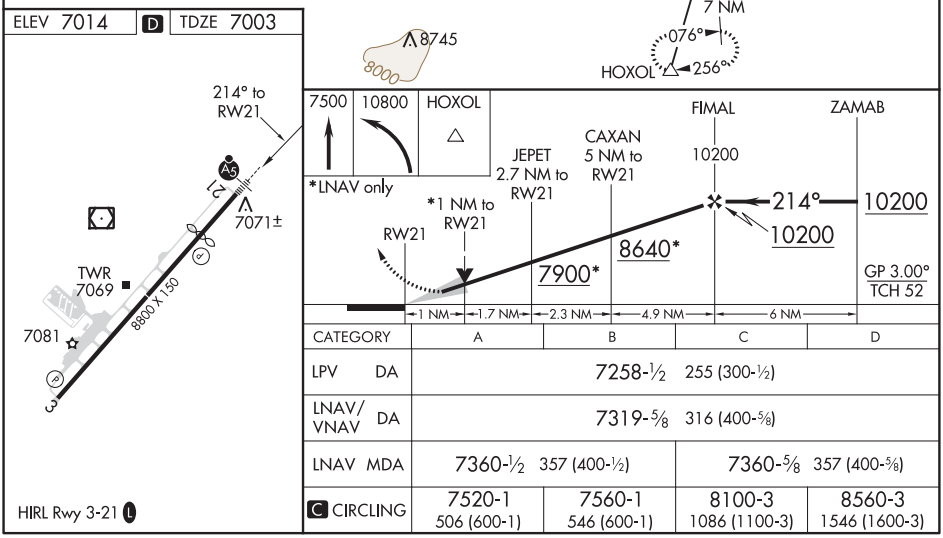
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19 °C (2°F) or above 44°C (111°F). DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to ⅞ SM.

MALSR

MISSED APPROACH: Climb to 7500 then climbing left turn to 10800 direct HOXOL and hold.

ATIS	PHOENIX APP CON	FLAGSTAFF TOWER ★	GND CON	UNICOM
125.8	126.375 236.775	134.55 (CTAF) (L) 239.25	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	7258-½ 255 (300-½)			
LNAV/VNAV DA	7319-⅝ 316 (400-⅝)			
LNAV MDA	7360-½ 357 (400-½)		7360-⅝ 357 (400-⅝)	
(C) CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	8100-3 1086 (1100-3)	8560-3 1546 (1600-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VOR RWY 21
FLAGSTAFF PULLIAM (FLG)

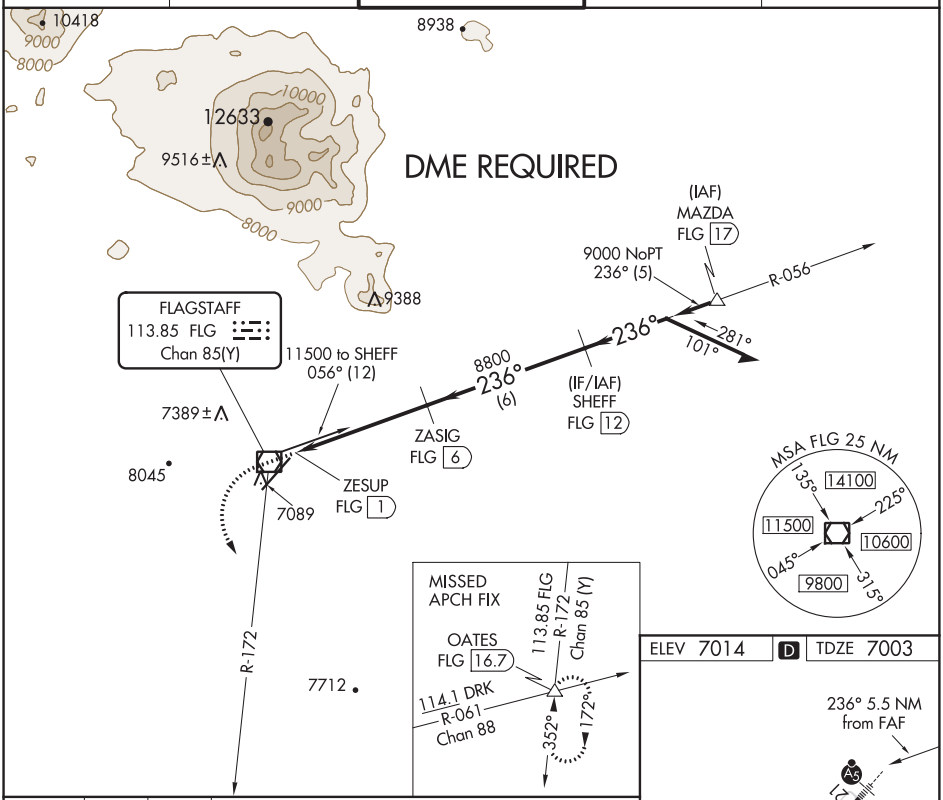
VOR/DME FLG	APP CRS	Rwy ldg	7000
113.85	236°	TDZE	7003
Chan 85 (Y)		Apt Elev	7014

T A Rwy 21 helicopter visibility reduction below 1 SM NA. DME required. Inop table does not apply to S-21 Cats A/B. Night landing: Rwy 21, operational VGSI required, remain on or above VGSI glidepath until threshold.

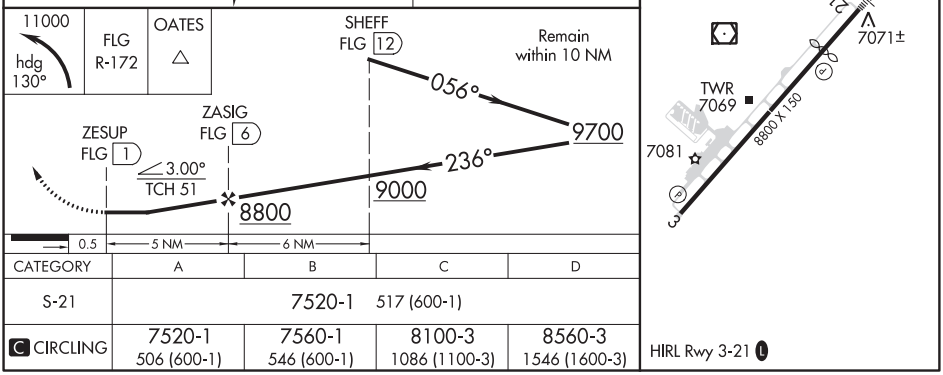
MALSR A5

MISSED APPROACH: Climbing left turn to 11000 on heading 130° and FLG R-172 to OATES INT/16.7 DME, continue climb-in-hold.

ATIS	PHOENIX APP CON	FLAGSTAFF TOWER ★	GND CON	UNICOM
125.8	126.375 236.775	134.55 (CTAF) L 239.25	121.9	122.95



ELEV 7014 D TDZE 7003



CATEGORY	A	B	C	D
S-21	7520-1 517 (600-1)			
C CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	8100-3 1086 (1100-3)	8560-3 1546 (1600-3)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

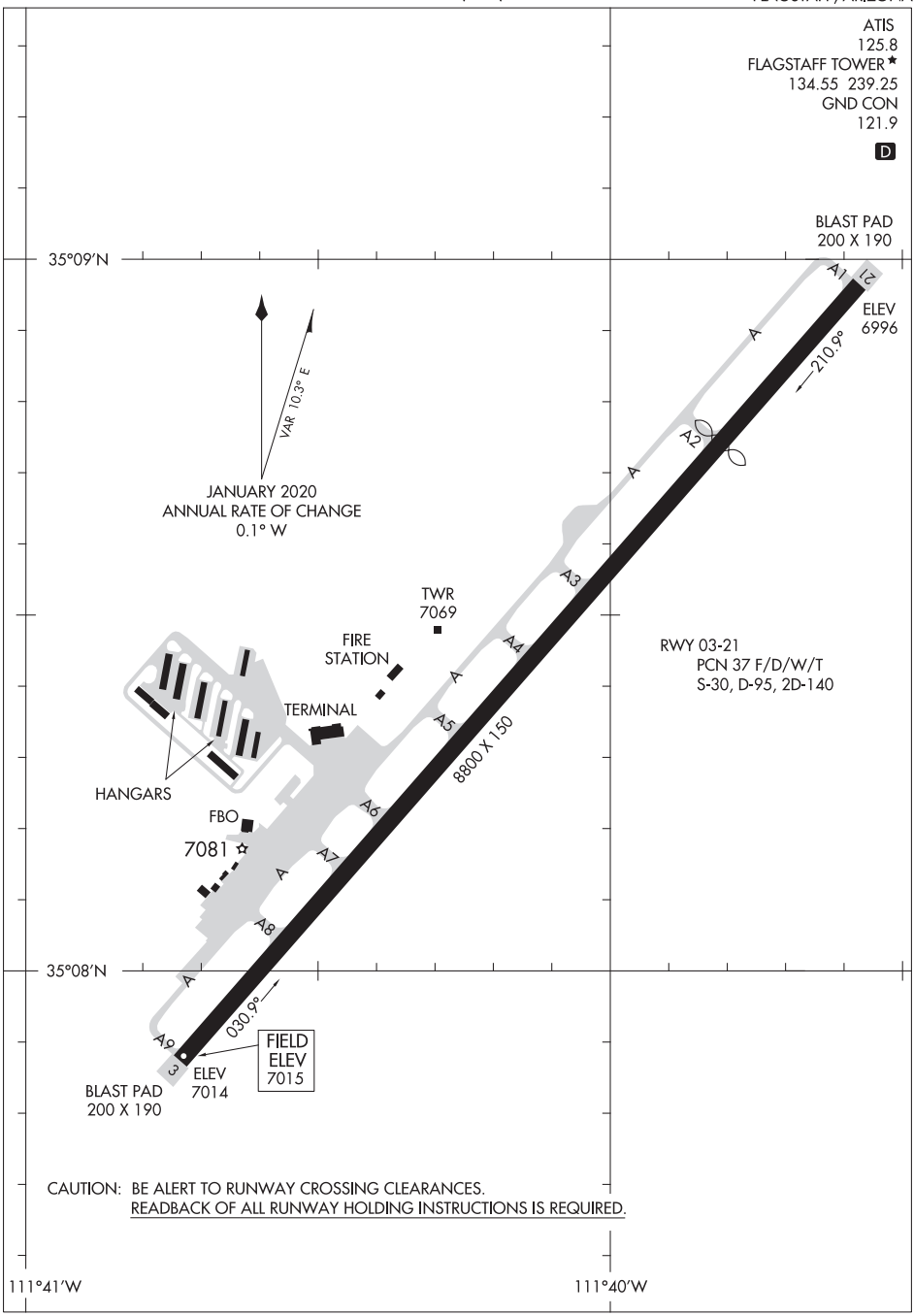
20086

AIRPORT DIAGRAM

AL-5034 (FAA)

FLAGSTAFF PULLIAM (FLG)

FLAGSTAFF, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

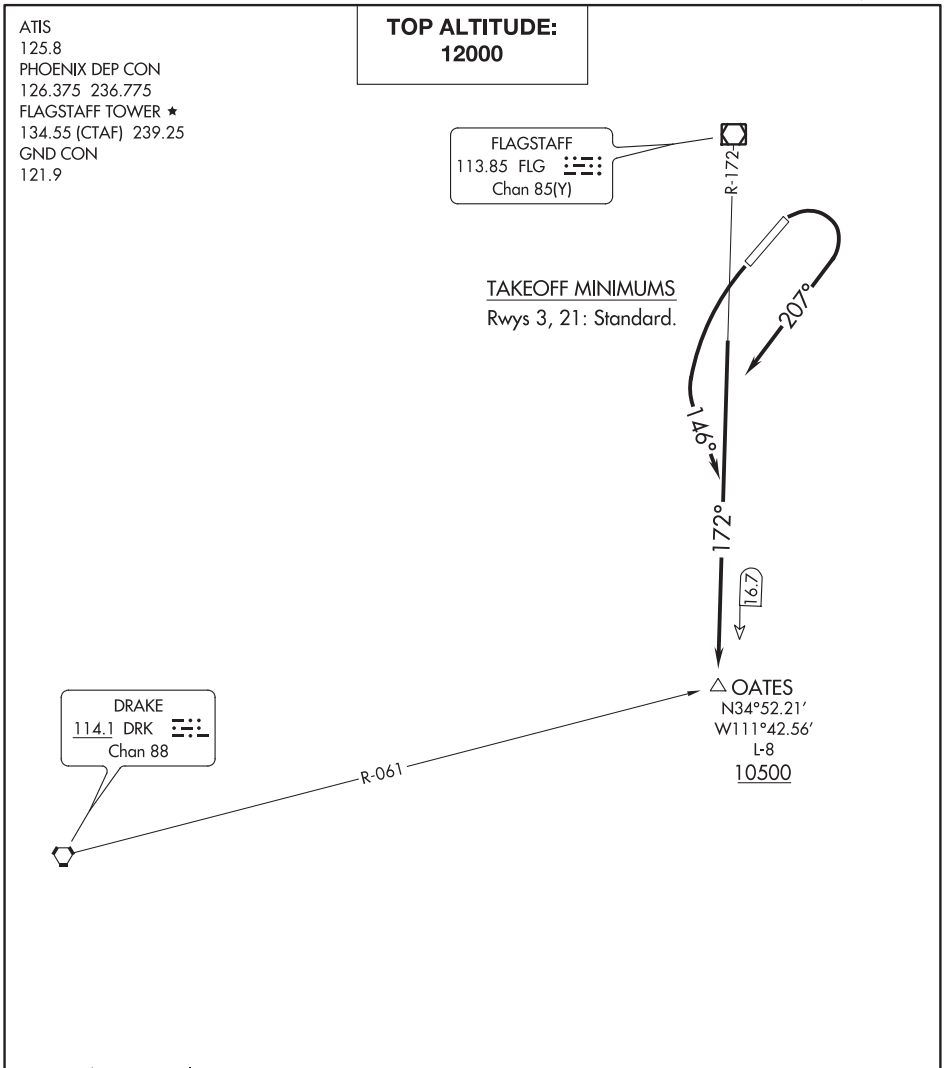
FLAGSTAFF, ARIZONA

FLAGSTAFF PULLIAM (FLG)

20086

FLAGSTAFF ONE DEPARTURE

AL-5034 (FAA)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing right turn heading 207° and FLG R-172 to OATES INT, cross at or above 10500, thence. . . .
TAKEOFF RUNWAY 21: Climbing left turn heading 146° and FLG R-172 to OATES INT, cross at or above 10500, thence. . . .

. . . .as assigned by ATC, continue climb to MEA/MCA for direction of flight.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

FORT HUACHUCA SIERRA VISTA, ARIZONA AL-5081 (FAA) 20142

LOC I-FHU	APP CRS	Rwy ldg	12001
109.9	260°	TDZE	4629
		Apt Elev	4719

ILS or LOC RWY 26

SIERRA VISTA MUNI-LIBBY AAF (FHU)

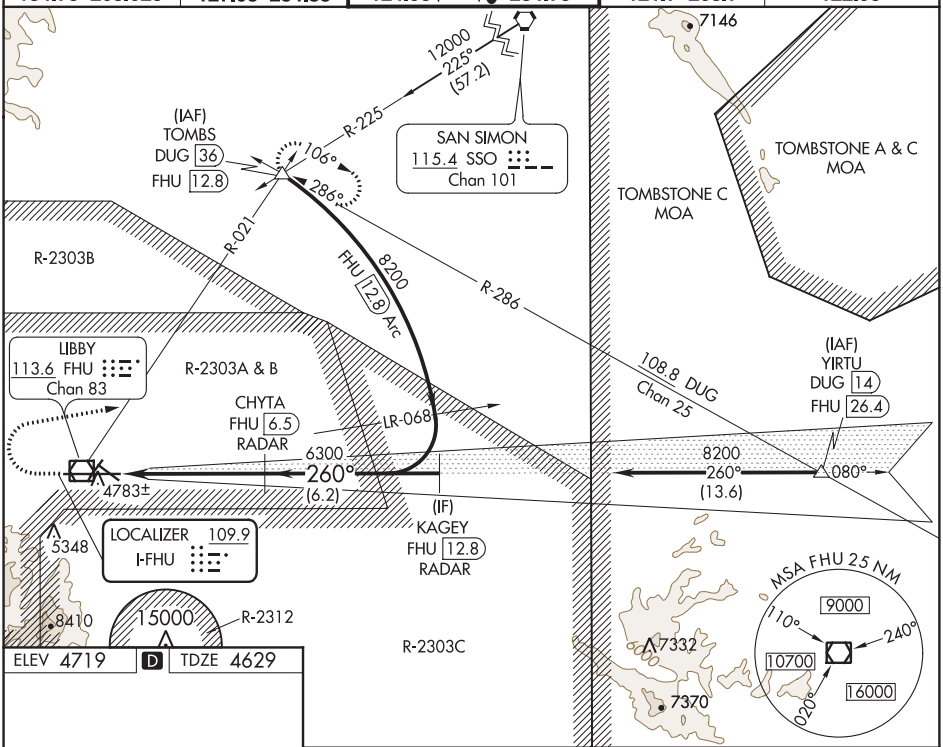
DME or RADAR required.

ASR/PAR

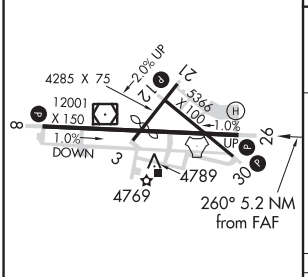
Circling NA south of Rwys 8 and 30.

MISSED APPROACH: Climb to 5300 then climbing right turn to 9500 on heading 067° and FHU VOR/DME R-021 to TOMBS INT/DUG 36 DME and hold, continue climb-in-hold to 9500.

ATIS	LIBBY AAF GCA★	LIBBY TOWER★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95

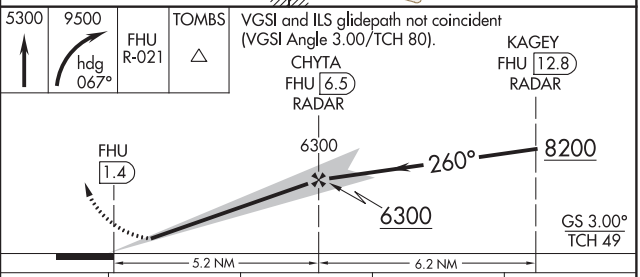


ELEV 4719 D TDZE 4629



HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 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 26	4829-¾ 200 (200-¾)			
S-LOC 26	5020-1 391 (400-1)		5020-1¼ 391 (400-1¼)	
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82123 W08A	APP CRS 080°	Rwy ldg 12001 TDZE 4719 Apt Elev 4719

RNAV (GPS) RWY 8
SIERRA VISTA MUNI-LIBBY AAF (FHU)

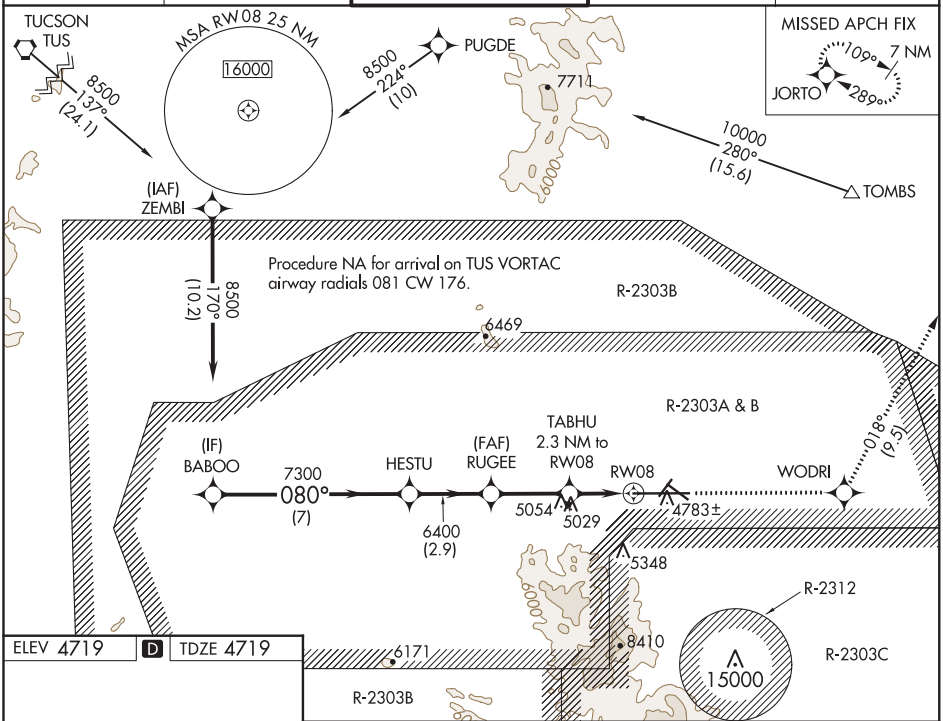
RNP APCH.

T A ASR/PAR

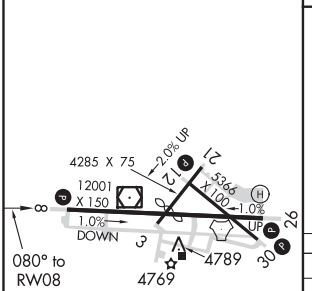
Circling NA south of Rwy 8-30. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C or above 47°C.

MISSED APPROACH: Climb to 9500 direct WODRI and on track 018° to JORTO and hold, continue climb-in-hold to 9500.

ATIS	LIBBY AAF GCA★	LIBBY TOWER ★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95



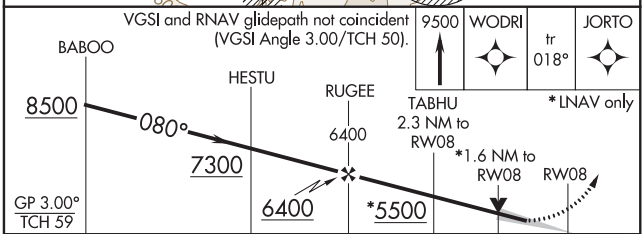
ELEV 4719 D TDZE 4719



HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 50).

9500	WODRI	tr 018°	JORTO



*LNAV only

CATEGORY	A	B	C	D
LPV DA	4919-¾ 200 (200-¾)			
LNAV/VNAV DA	5059-1⅛ 340 (400-1⅛)			
LNAV MDA	5280-1 561 (600-1)		5280-1⅝ 561 (600-1⅝)	
CIRCLING	5280-1 561 (600-1)		5280-1⅝ 561 (600-1⅝)	5280-2 561 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FORT HUACHUCA SIERRA VISTA, ARIZONA AL-5081 (FAA) 20142

APP CRS	Rwy ldg	12001
260°	TDZE	4629
	Apt Elev	4719

RNAV (GPS) RWY 26
SIERRA VISTA MUNI-LIBBY AAF (FHU)

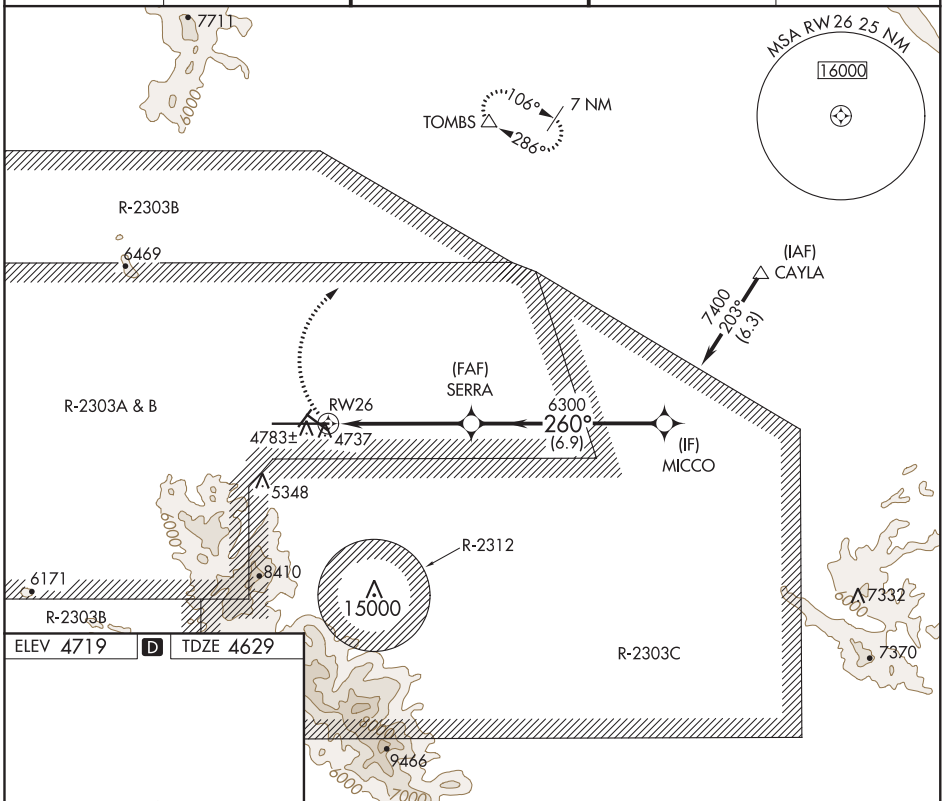
RNP APCH.

ASR/PAR

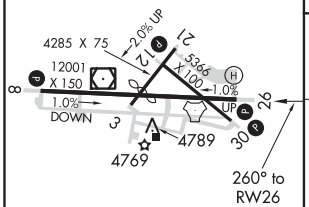
Circling NA south of runways 8 and 30.

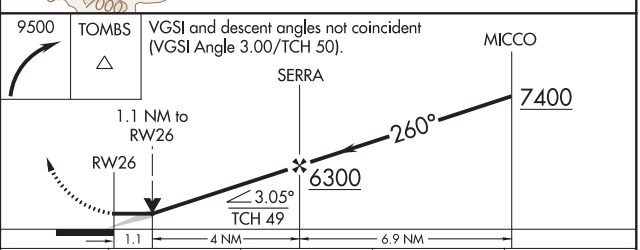
MISSED APPROACH: Climbing right turn to 9500 direct TOMBS and hold, continue climb-in-hold to 9500.

ATIS	LIBBY AAF GCA★	LIBBY TOWER★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95



ELEV 4719 D TDZE 4629





CATEGORY	A	B	C	D
LNAV MDA	5040-1 411 (400-1)		5040-1¼ 411 (400-1¼)	
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)

HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VOR RWY 26

SIERRA VISTA MUNI-LIBBY AAF (FHU)

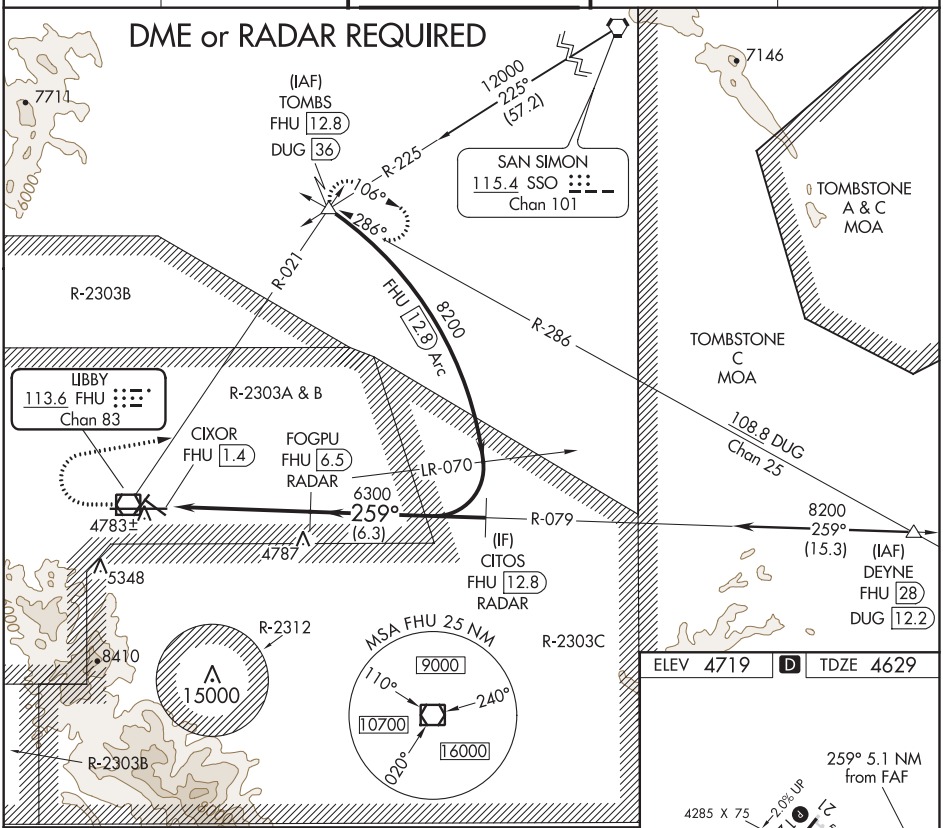
VOR/DME FHU	APP CRS	Rwy ldg	12001
113.6	259°	TDZE	4629
Chan 83		Apt Elev	4719

ASR/PAR

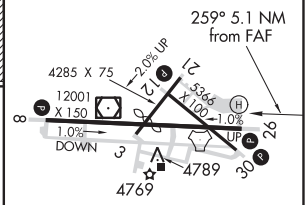
Circling NA south of Rwys 8 and 30.
DME or RADAR required.

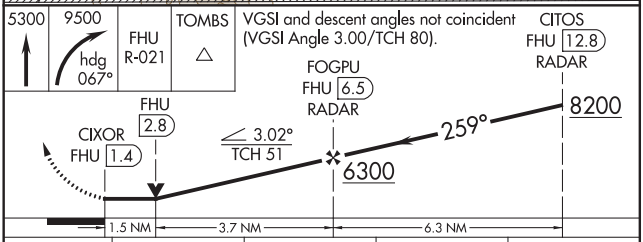
MISSED APPROACH: Climb to 5300 then climbing right turn to 9500 on heading 067° and FHU R-021 to TOMBS INT/ DUG 36 DME and hold, continue climb-in-hold to 9500.

ATIS	LIBBY AAF GCA★	LIBBY TOWER★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95



ELEV 4719 D TDZE 4629





HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 L

CATEGORY	A	B	C	D
S-26	5140-1 511 (500-1)		5140-1⅝ 511 (500-1⅝)	
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1⅝ 461 (500-1⅝)	5280-2 561 (600-2)

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

FORT HUACHUCA SIERRA VISTA, ARIZONA AL-5081 (FAA) 20142

TACAN RWY 8

SIERRA VISTA MUNI-LIBBY AAF (FHU)

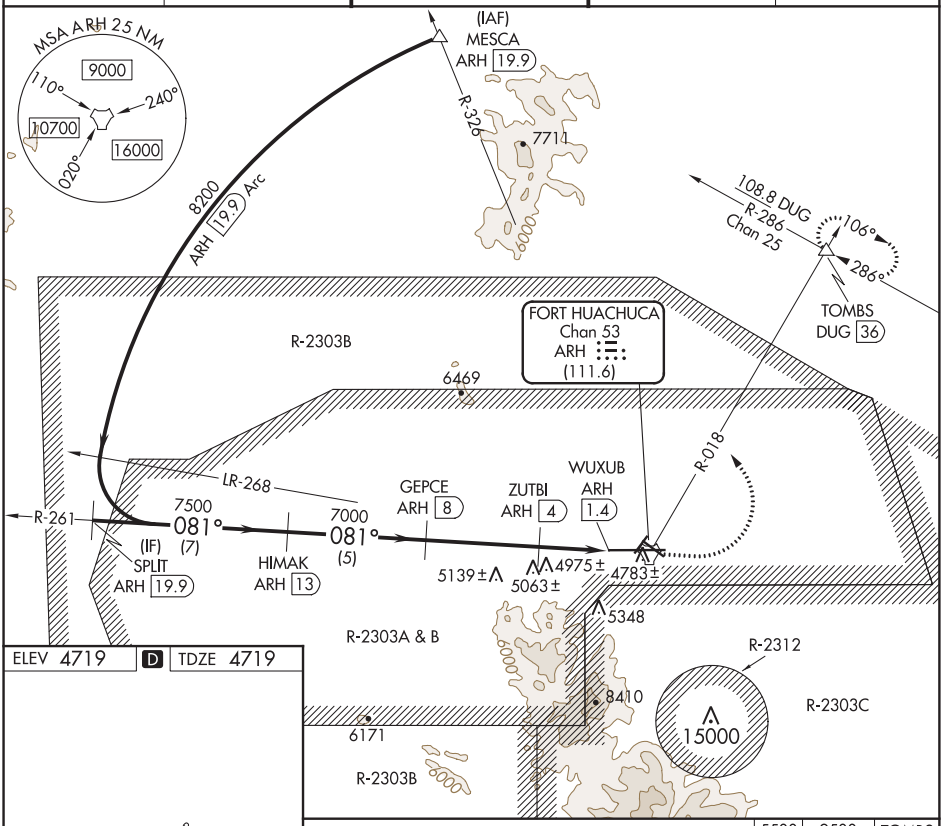
TACAN ARH Chan 53 (111.6)	APP CRS 081°	Rwy ldg 12001 TDZE 4719 Apt Elev 4719

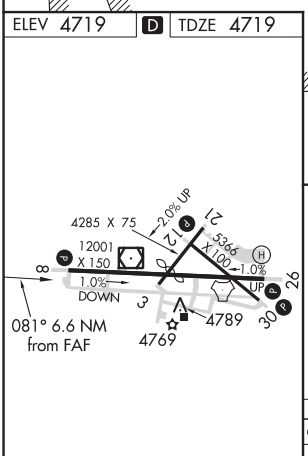
T A ASR/PAR

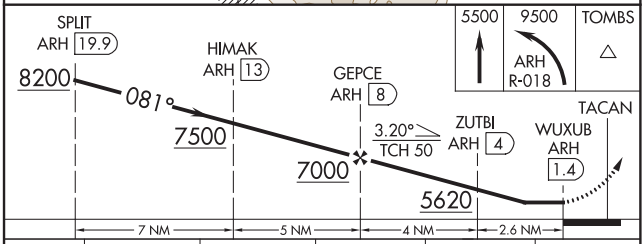
Circling NA south of Rwys 8 and 30.

MISSED APPROACH: Climb to 5500 then climbing left turn to 9500 on ARH R-018 to TOMBS INT/DUG 36 DME and hold.

ATIS	LIBBY AAF GCA★	LIBBY TOWER★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95







CATEGORY	A	B	C	D	E
S-8	5260-1 541 (600-1)		5260-1½ 541 (600-1½)	5260-1¾ 541 (600-1¾)	5260-2 541 (600-2)
CIRCLING	5260-1 541 (600-1)		5260-1½ 541 (600-1½)	5280-2 561 (600-2)	

HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TACAN ARH Chan 53 (111.6)	APP CRS 251°	Rwy ldg 12001 TDZE 4629 Apt Elev 4719

TACAN RWY 26

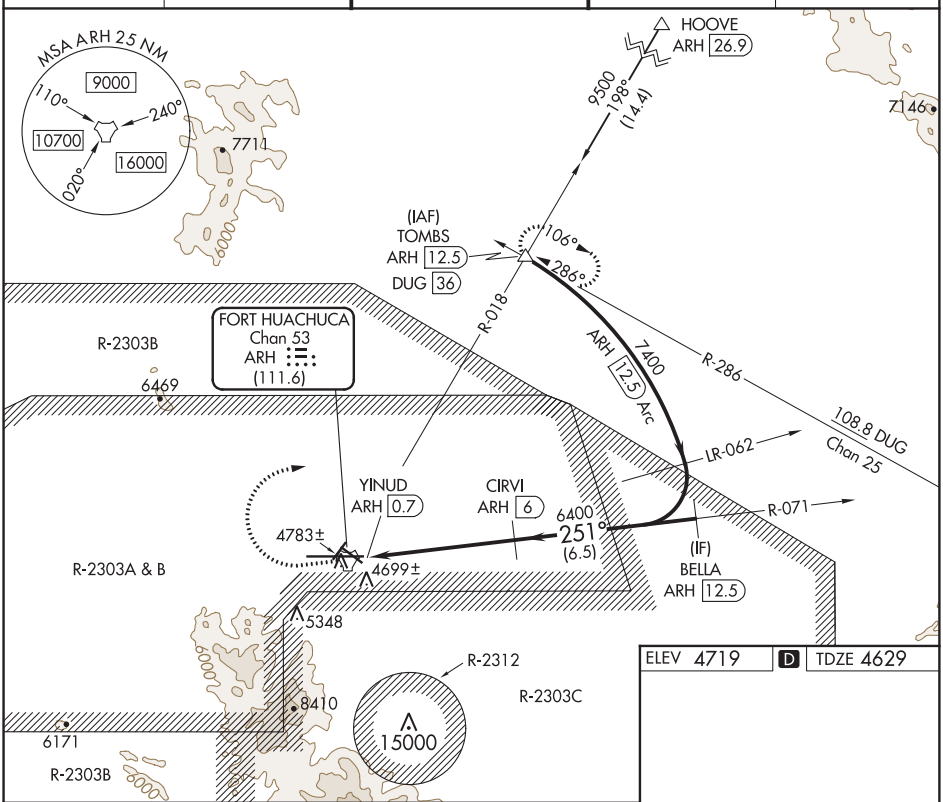
SIERRA VISTA MUNI-LIBBY AAF (FHU)

T A ASR/PAR

Circling NA south of Rwys 8 and 30.

MISSED APPROACH: Climb to 5300 then climbing right turn to 9500 on ARH R-018 to TOMBS INT/DUG 36 DME and hold.

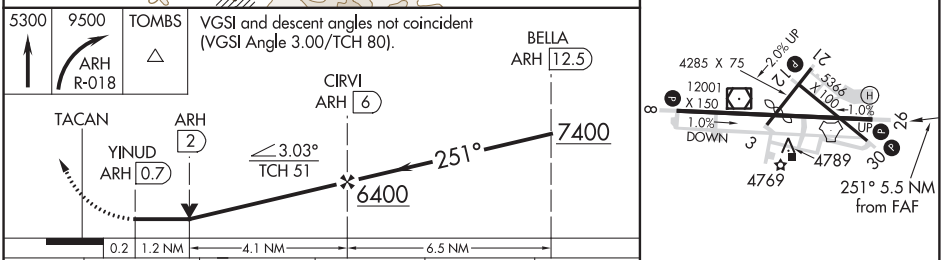
ATIS	LIBBY AAF GCA★	LIBBY TOWER ★	GND CON	UNICOM
134.75 263.025	127.05 254.35	124.95 (CTAF) L 284.75	121.7 268.7	122.95



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 4719 D TDZE 4629



CATEGORY	A	B	C	D	E
S-26	5100-1 471 (400-1)		5100-1¼ 471 (400-1¼)	5100-1½ 471 (400-1½)	5100-1¾ 471 (400-1¾)
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)	

HIRL Rwy 8-26 L
MIRL Rwys 3-21 and 12-30 L

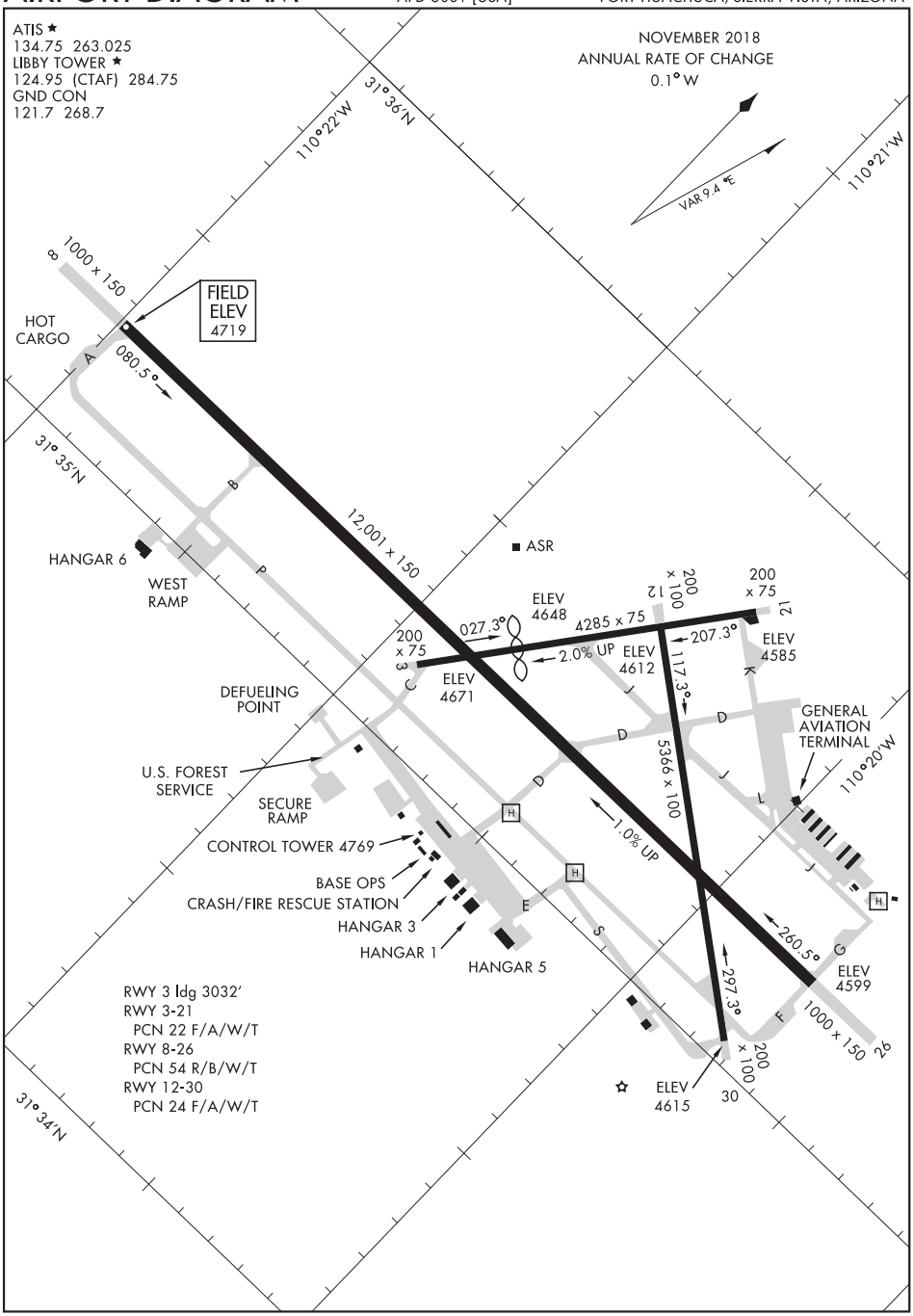
18312

AIRPORT DIAGRAM

FORT HUACHUCA-SIERRA VISTA/SIERRA VISTA MUNI-LIBBY AAF (KFHU)

AFD-5081 [USA]

FORT HUACHUCA/SIERRA VISTA, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

FORT HUACHUCA/SIERRA VISTA, ARIZONA

FORT HUACHUCA-SIERRA VISTA/SIERRA VISTA MUNI-LIBBY AAF (KFHU)

WAAS CH 90306 W01A	APP CRS 014°	Rwy ldg 6279 TDZE 1049 Apt Elev 1071

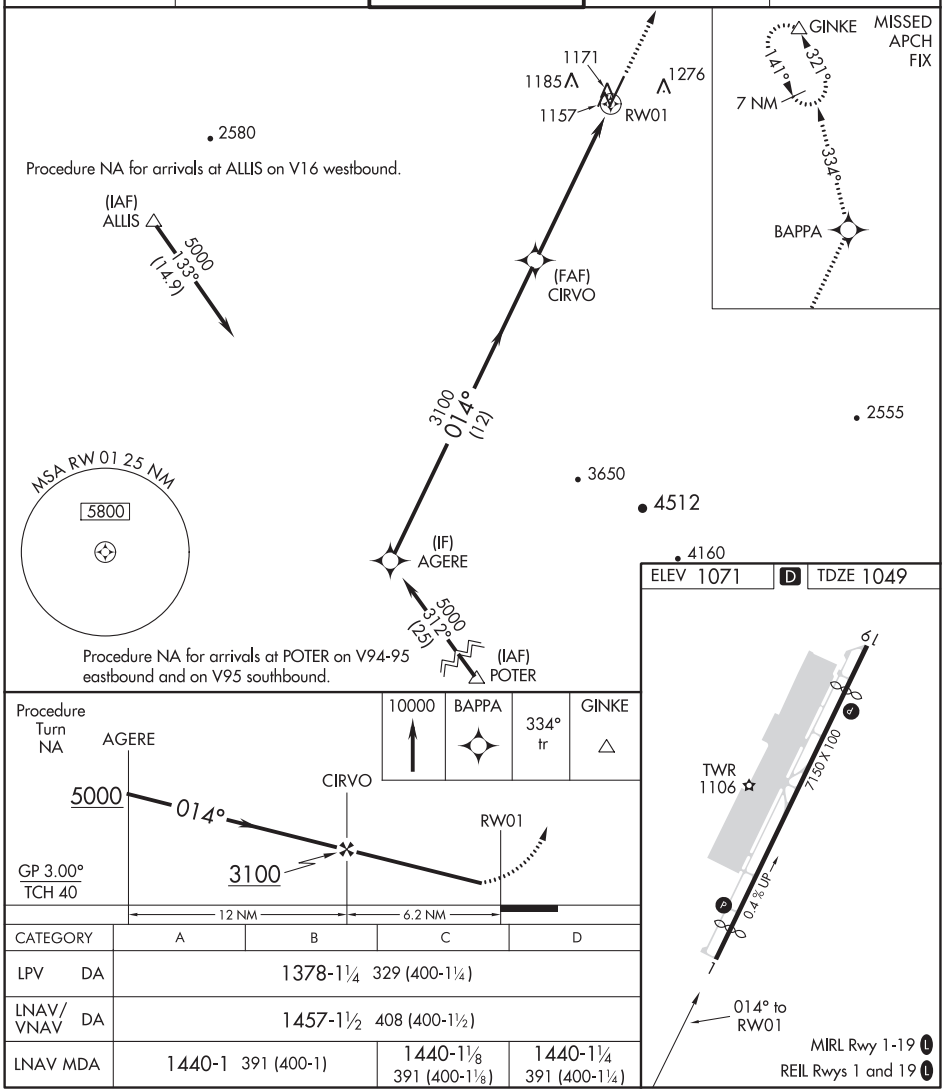
RNAV (GPS) RWY 1
GLENDALE MUNI (GEU)

RNP APCH.

Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 47°C. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting: increase LPV DA to 1438 feet; increase LNAV/VNAV DA to 1517 feet and all visibilities ¼ SM; increase all MDA 60 feet and LNAV Cat C and D visibility ¼ SM. Night landing: Rwy 1, Cat C and D operational VGSI required, remain on or above VGSI glidepath until threshold. Rwy 1 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 10000 direct BAPPA and on 334° track to GINKE and hold, continue climb-in-hold to 10000.

ATIS	LUKE APP CON ★	GLENDALE TOWER ★	GND CON	UNICOM
119.425	118.15 363.125	121.0 (CTAF) L	118.0	122.95



CATEGORY	A	B	C	D
LPV DA	1378-1¼ 329 (400-1¼)			
LNAV/VNAV DA	1457-1½ 408 (400-1½)			
LNAV MDA	1440-1 391 (400-1)		1440-1⅛ 391 (400-1⅛)	1440-1¼ 391 (400-1¼)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

GLENDALE, ARIZONA AL-6915 (FAA) 19199

WAAS CH 87004 W19A	APP CRS 194°	Rwy ldg 6115 TDZE 1065 Apt Elev 1071

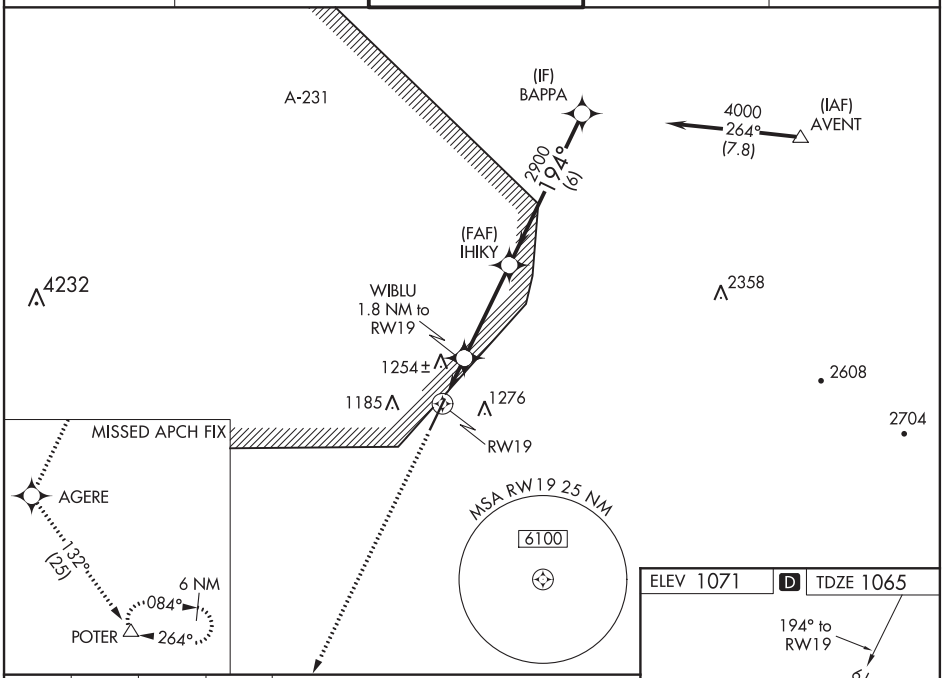
RNAV (GPS) RWY 19
GLENDALE MUNI (GEU)

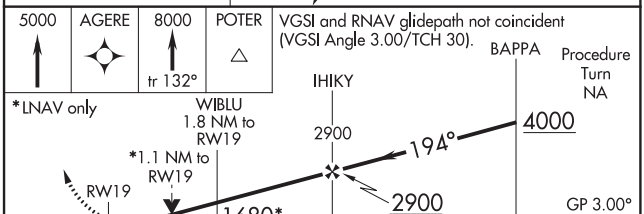
RNP APCH.

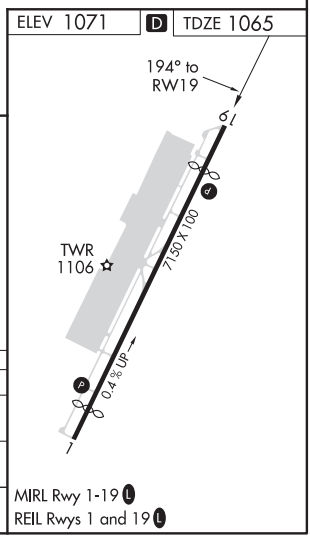
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 47°C. Rwy 19 helicopter visibility reduction below ¾ SM NA. VDP and Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting: increase LPV DA to 1384 feet; increase LNAV/VNAV DA to 1617 feet and all Cats visibility ¼ SM; increase all MDA 60 feet and LNAV Cat C and D visibility ¼ SM.

MISSED APPROACH: Climb to 5000 direct AGERE then climb to 8000 on track 132° to POTER and hold.

ATIS	LUKE APP CON★	GLENDALE TOWER★	GND CON	UNICOM
119.425	118.15 363.125	121.0 (CTAF) L	118.0	122.95





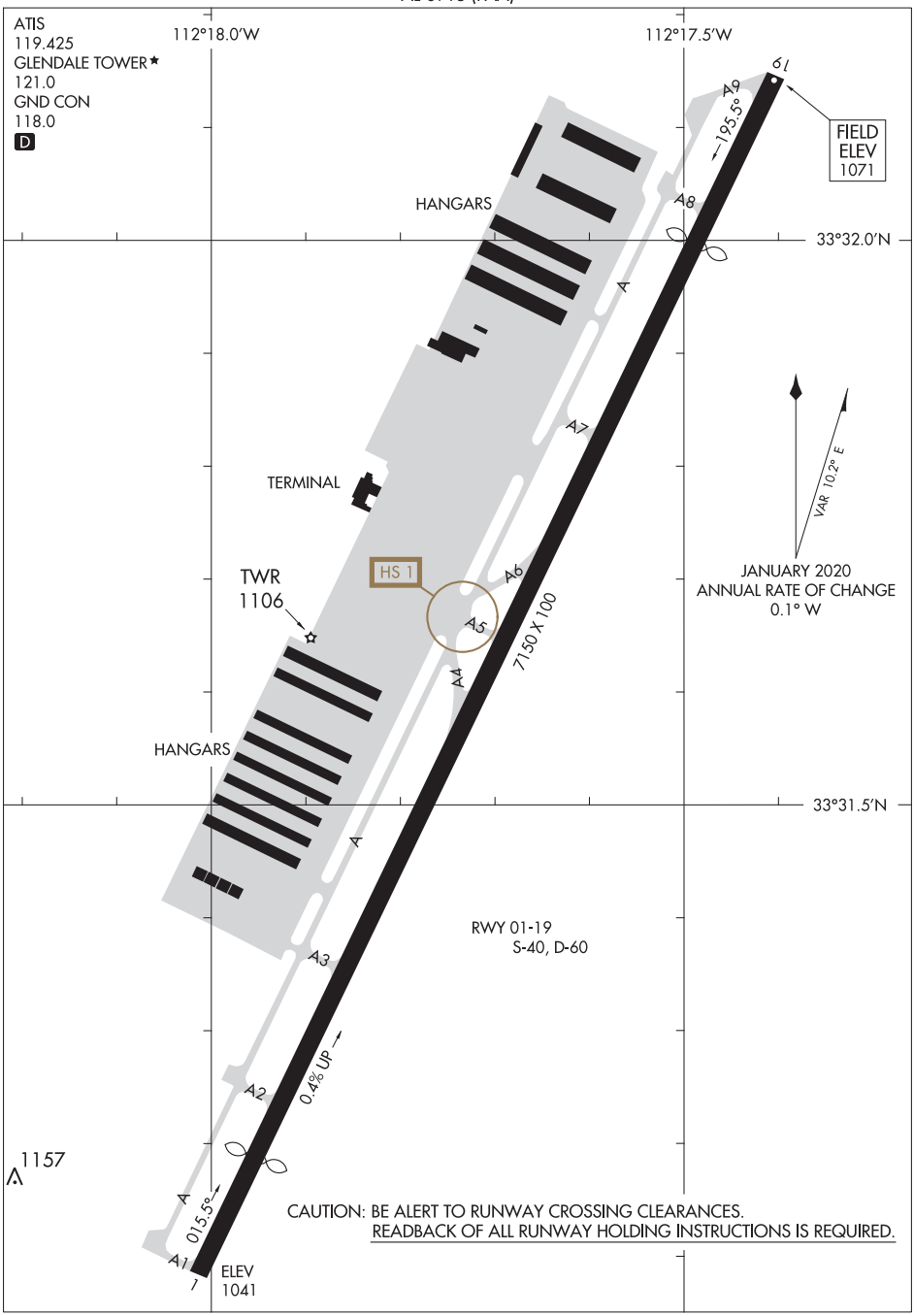


CATEGORY	A	B	C	D
LPV DA	1339-1 274 (300-1)			
LNAV/VNAV DA	1572-1¾ 507 (600-1¾)			
LNAV MDA	1540-1 475 (500-1)		1540-1⅜ 475 (500-1⅜)	1540-1½ 475 (500-1½)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-6915 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

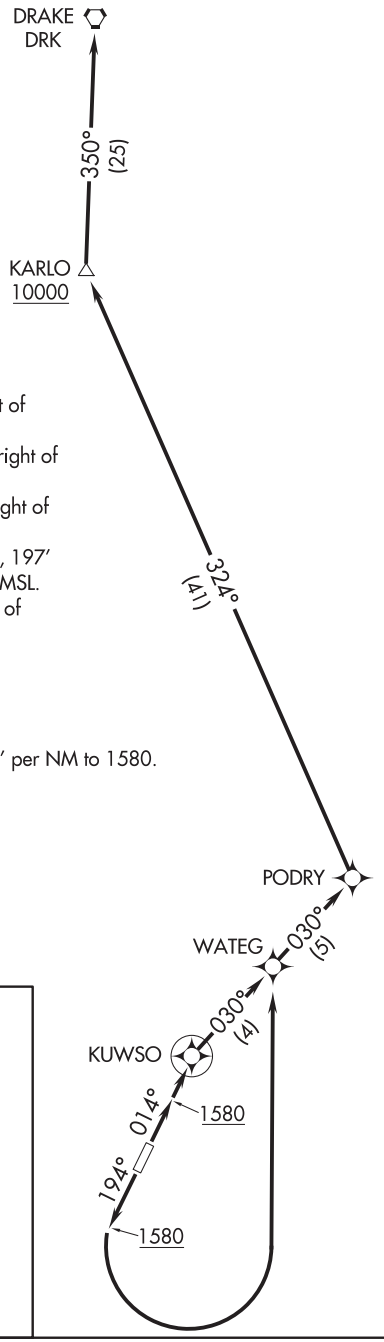
(DRAKE2.DRK) 16315

DRAKE TWO DEPARTURE (OBSTACLE) (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

ATIS
119.425
GND CON
118.0
GLENDALE TOWER★
121.0
LUKE DEP CON★
118.15 363.125
PHOENIX DEP CON
120.7 239.0



TAKEOFF OBSTACLE NOTES

Rwy 1: Light on blast fence 4′ from DER, 130′ left of centerline, up to 10′ AGL/1088′ MSL.
Trees beginning 124′ from DER, left and right of centerline, up to 30′ AGL/1104′ MSL.
Vehicles beginning 299′ from DER, 80′ right of centerline, up to 15′ AGL/1091′ MSL.
Poles and trees beginning 400′ from DER, 197′ right of centerline, up to 75′ AGL/1144′ MSL.

Rwy 19: Trees beginning 281′ from DER, 331′ left of centerline, up to 33′ AGL/1060′ MSL.

TAKEOFF MINIMUMS

Rwys 1, 19: Standard with minimum climb of 500′ per NM to 1580.

NOTE: RNAV 1.

NOTE: GPS required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° to 1580, then direct KUWSO, then as depicted to cross KARLO at/above 10000. . . .
TAKEOFF RUNWAY 19: Climb heading 194° to 1580, then left turn direct WATEG, then as depicted to cross KARLO at/above 10000. . . .

. . . .thence on track 350° to DRK VORTAC.
Expect filed altitude 3 minutes after departure.

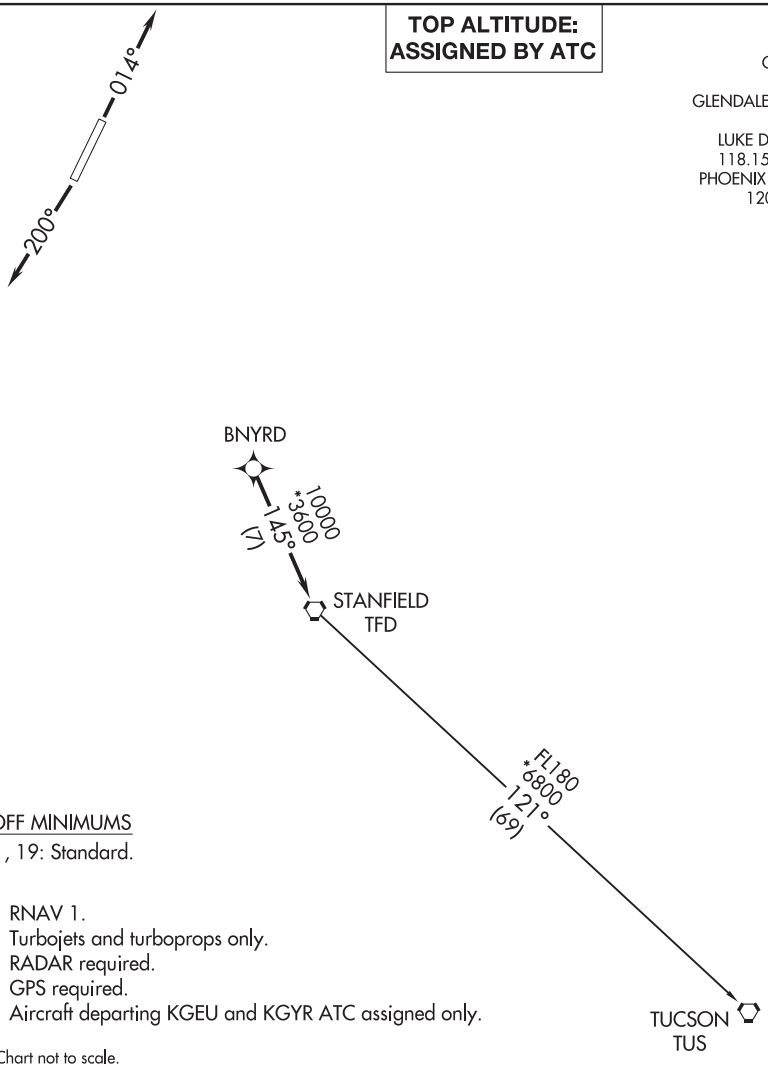
SW-4, 05 NOV 2020 to 31 DEC 2020

DRAKE TWO DEPARTURE (OBSTACLE) (RNAV)
(DRAKE2.DRK) 13NOV14

GLENDALE, ARIZONA
GLENDALE MUNI (GEU)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.425
GND CON
118.0
GLENDALE TOWER★
121.0
LUKE DEP CON★
118.15 363.125
PHOENIX DEP CON
120.7 239.0



TAKEOFF MINIMUMS
Rwys 1, 19: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

FTHLS SIX DEPARTURE (RNAV)

(FTHLS6.FTHLS) 24MAY18

GLENDALE, ARIZONA
GLENDALE MUNI (GEU)

(FTHLS6.FTHLS) 18144

AL-6915 (FAA)

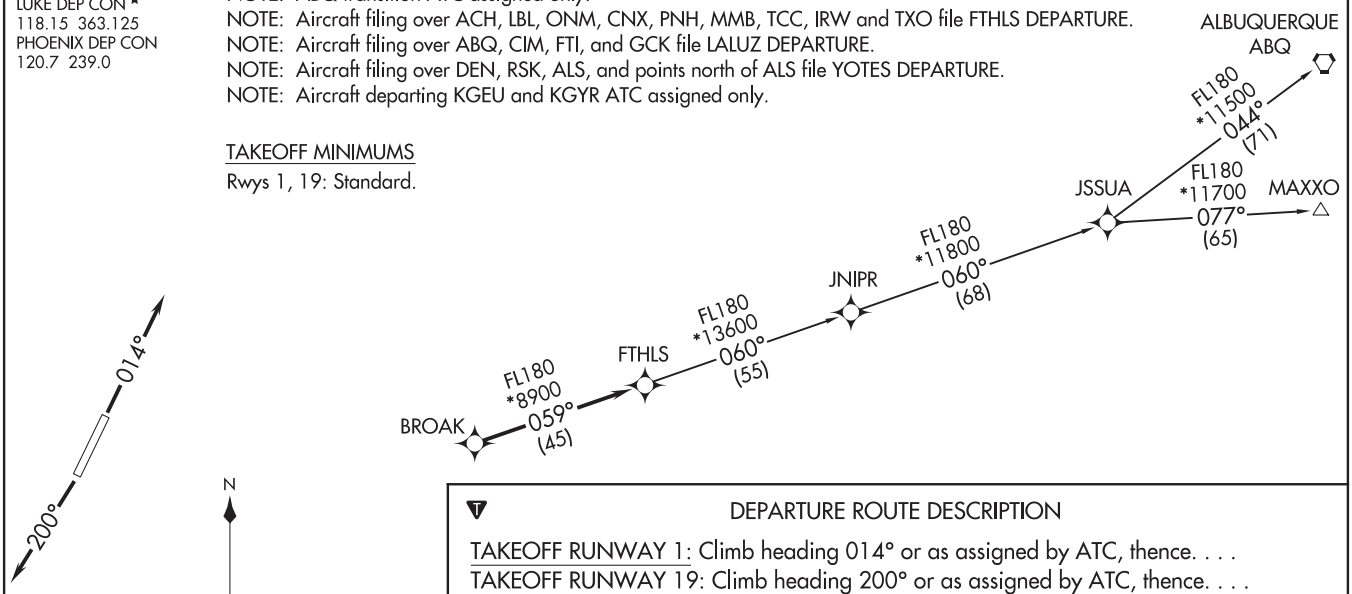
ATIS
119.425
GND CON
118.0
GLENDALE TOWER ★
121.0
LUKE DEP CON ★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwys 1, 19: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)

JNIPR TRANSITION (FTHLS6.JNIPR)

MAXXO TRANSITION (FTHLS6.MAXXO)

NOTE: Chart not to scale.

FTHLS SIX DEPARTURE (RNAV)
GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

ATIS
119.425
GLENDALE TOWER★
121.0
LUKE DEP CON★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

N

NOTE: RADAR required

DRAKE
114.1 DRK
Chan 88
N34°42.15′-W112°28.82′
L-8, H-4

FLAGSTAFF
113.85 FLG
Chan 85(Y)
N35°08.83′-W111°40.45′
L-8, H-4

WINSLOW
112.6 INW
Chan 73
N35°03.70′-W110°47.70′
L-8, H-4

ST JOHNS
112.3 SJN
Chan 70
N34°25.44′-W109°08.61′
L-8, H-4

TAKEOFF MINIMUMS:
Rwy 1: Standard with minimum climb of 230′/NM to 3600.
Rwy 19: Standard.

TAKEOFF OBSTACLE NOTES
Rwy 1: Light on blast fence 4′ from DER, 130′ left of centerline, up to 10′ AGL/1088′ MSL.
Trees beginning 124′ from DER, left and right of centerline, up to 30′ AGL/1104′ MSL.
Vehicles beginning 299′ from DER, 80′ right of centerline, up to 15′ AGL/1091′ MSL.
Poles and trees beginning 400′ from DER, 197′ right of centerline, up to 75′ AGL/1144′ MSL.
Rwy 19: Trees beginning 281′ from DER, 331′ left of centerline, up to 33′ AGL/1060′ MSL.

BUCKEYE
110.6 BXK
Chan 43
N33°27.21′-W112°49.48′
L-5, H-4

GILA BEND
116.6 GBN
Chan 113
N32°57.38′-W112°40.46′
L-5, H-4

STANFIELD
114.8 TFD
Chan 95
N32°53.15′-W111°54.52′
L-5, H-4

PHOENIX
115.6 PXR
Chan 103
N33°25.98′-W111°58.21′
L-5, H-4

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb to assigned altitude on assigned heading between 340° CW to 040° from DER. Thence. . . .

TAKEOFF RUNWAY 19: Climbing right turn to assigned altitude on assigned heading between 200° CW to 220° from DER. Thence. . . .

. . . .Expect radar vectors to assigned route. Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, climb to 6000 then proceed direct BXK VORTAC, then via assigned route.

IZZZO SEVEN DEPARTURE (RNAV)

(IZZZO7.IZZZO) 24MAY18

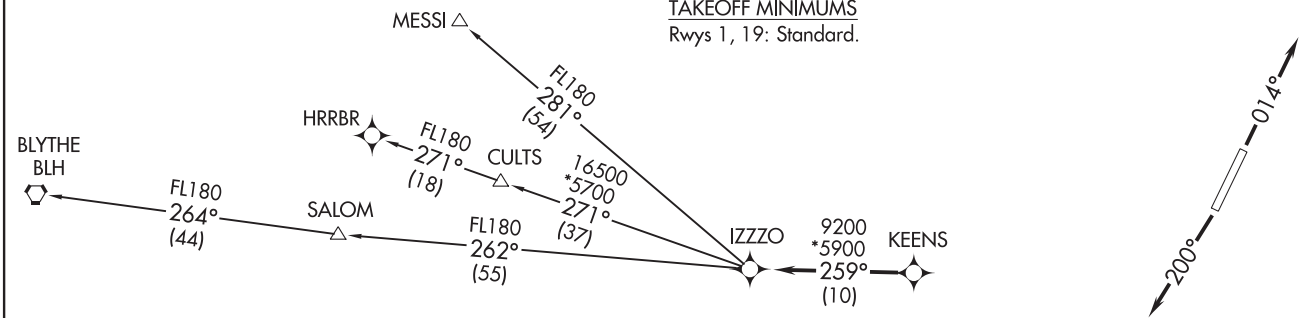
GLENDALE, ARIZONA
GLENDALE MUNI (GEU)

ATIS
119.425
GND CON
118.0
GLENDALE TOWER ★
121.0
LUKE DEP CON ★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 1, 19: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO7.BLH)

HRRBR TRANSITION (IZZZO7.HRRBR)

MESSI TRANSITION (IZZZO7.MESSI)

N

NOTE: Chart not to scale.

IZZZO SEVEN DEPARTURE (RNAV)
(IZZZO7.IZZZO) 18144
GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

AL-6915 (FAA)

SW-4, 05 NOV 2020 to 31 DEC 2020

ATIS
119.425
GND CON
118.0
GLENDALE TOWER ★
121.0
LUKE DEP CON ★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 1, 19: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

ATIS
119.425
GND CON
118.0
GLENDALE TOWER ★
121.0
LUKE DEP CON ★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

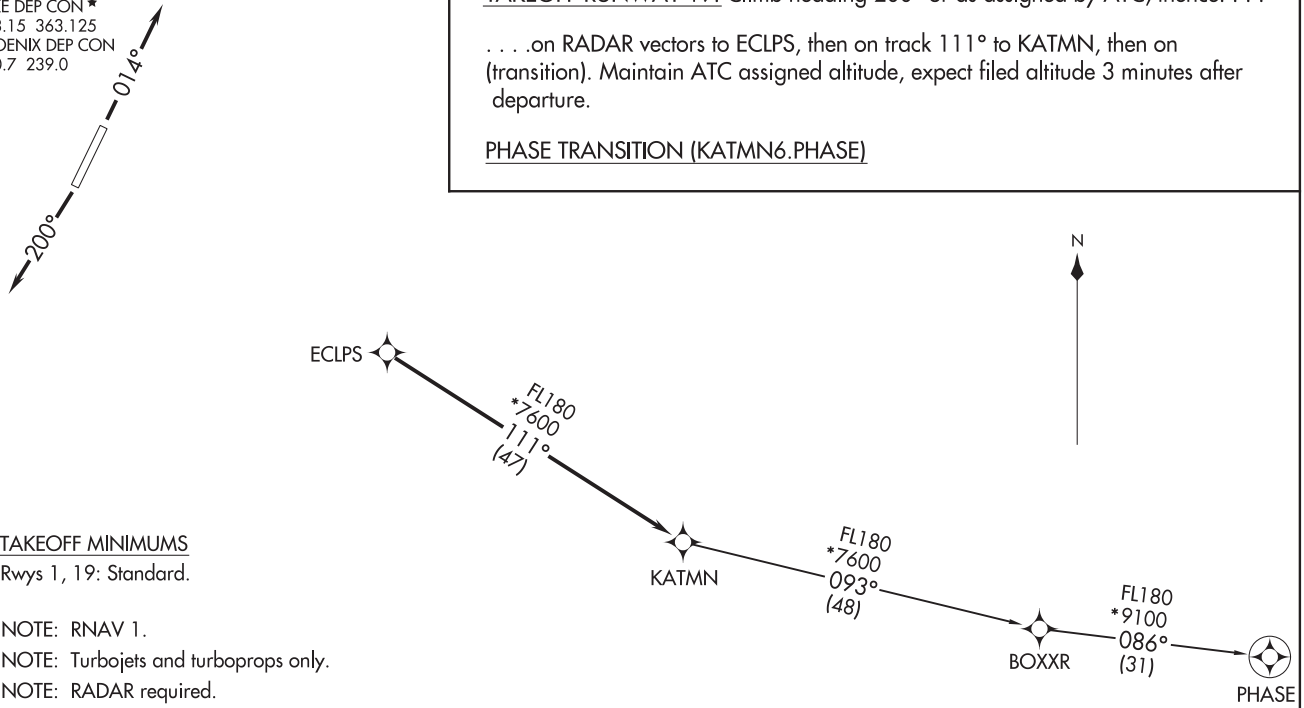
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)



TAKEOFF MINIMUMS

Rwys 1, 19: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

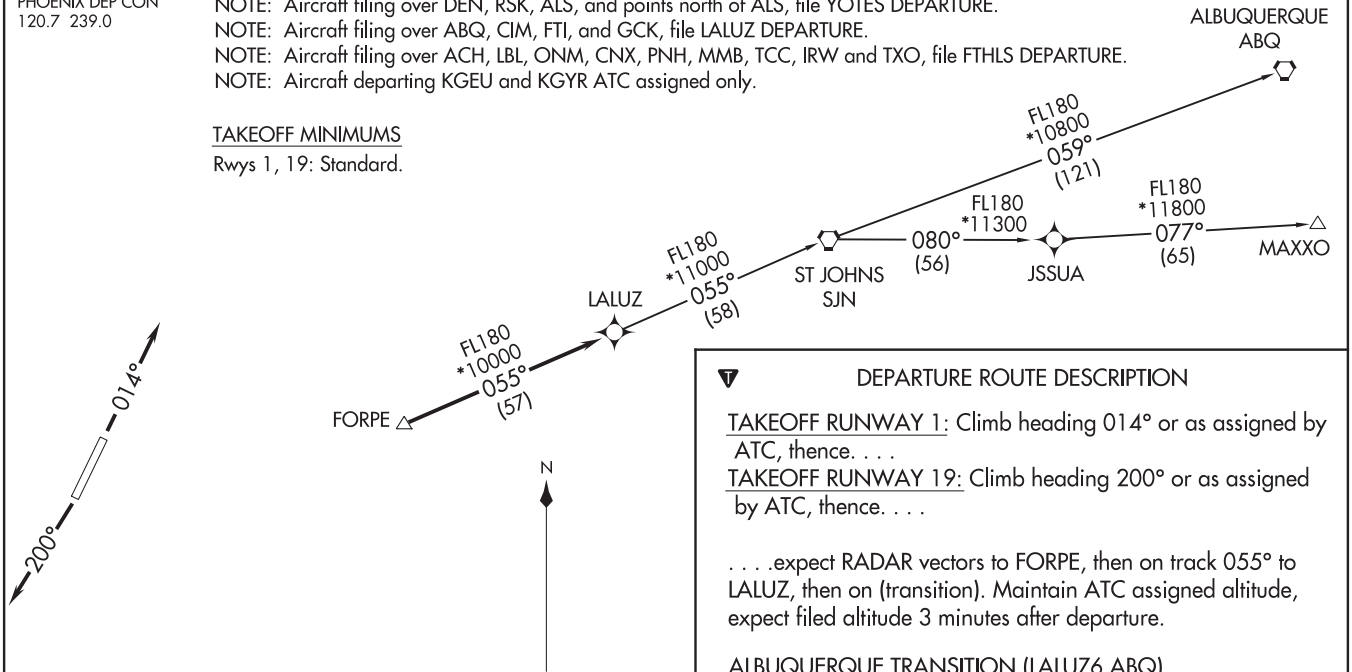
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.425
GND CON
118.0
GLENDALE TOWER ★
121.0
LUKE DEP CON ★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 1, 19: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)
MAXXO TRANSITION (LALUZ6.MAXXO)
ST JOHNS TRANSITION (LALUZ6.SJN)

(MAYSA7.MAYSA) 20142

MAYSA SEVEN DEPARTURE (RNAV)

AL-6915 (FAA)

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
119.425
GND CON
118.0
GLENDALE TOWER★
121.0
LUKE DEP CON★
118.15 363.125
PHOENIX DEP CON
120.7 239.0

RRSTA

FL190
*8400
308°
(15)

MAYSA

FL190
308°
(42)

ZEPER
10000

014°

200°

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
Do not file.

TAKEOFF MINIMUMS

Rwys 1, 19: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb on heading 014° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 19: Climb on heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS 119.425
GND CON 118.0
GLENDALE TOWER★ 121.0
LUKE DEP CON★ 118.15 363.125
PHOENIX DEP CON 120.7 239.0

GRAND CANYON
GCN

FL180 *9500 342° (26)

RIMMM

FL180 *11500 343° (10)

LOFTS

FL180 *11500 343° (36)

CARTL

FL180 *9300 343° (20)

SNOBL

14600 *8100 343° (20)

QUAKY

FL180 *10700 043° (94)

YOOPR

FL180 *10700 050° (123)

JARPA

014°

200°

NOTE: Chart not to scale.

TAKEOFF MINIMUMS

Rwys 1, 19: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

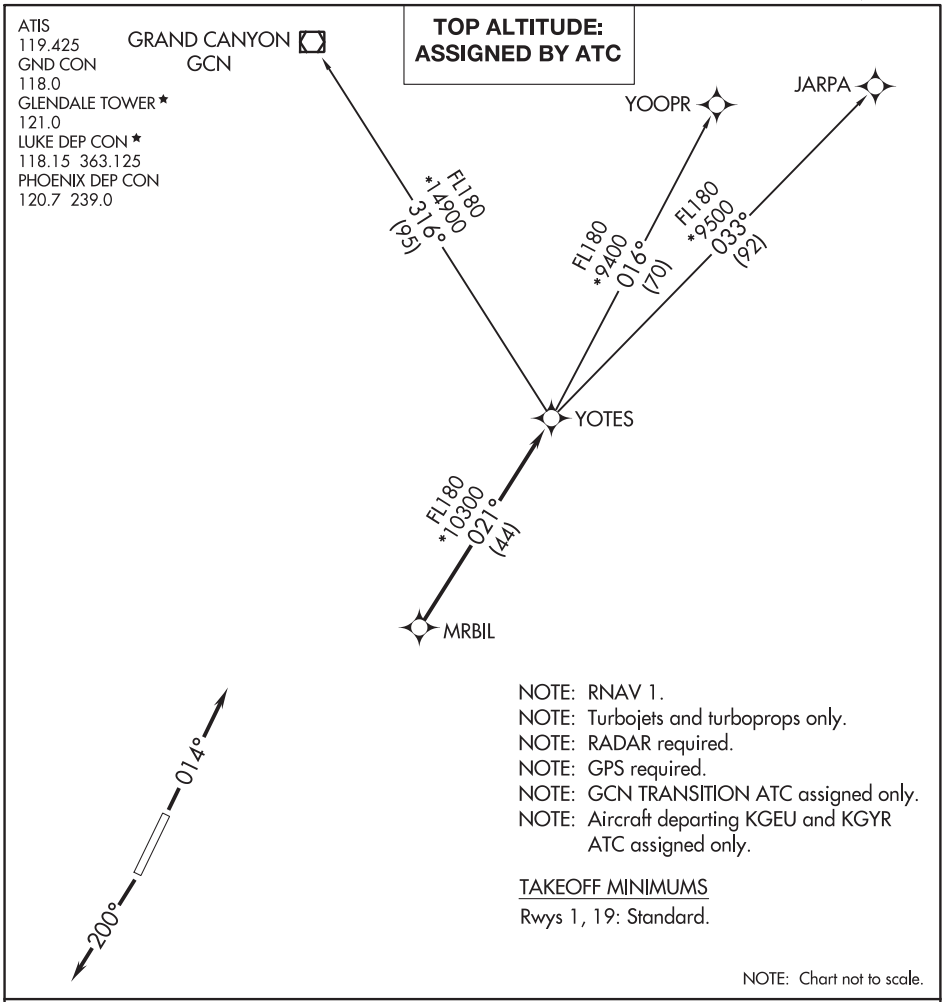
CARTL TRANSITION (SNOBL6.CARTL)
GRAND CANYON TRANSITION (SNOBL6.GCN)
JARPA TRANSITION (SNOBL6.JARPA)
RIMMM TRANSITION (SNOBL6.RIMMM)
YOOPR TRANSITION (SNOBL6.YOOPR)

(YOTES6.YOTES) 18144

YOTES SIX DEPARTURE (RNAV)

AL-6915 (FAA)

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 1, 19: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

YOTES SIX DEPARTURE (RNAV)

(YOTES6.YOTES) 24MAY18

GLENDALE, ARIZONA
GLENDALE MUNI (GEU)

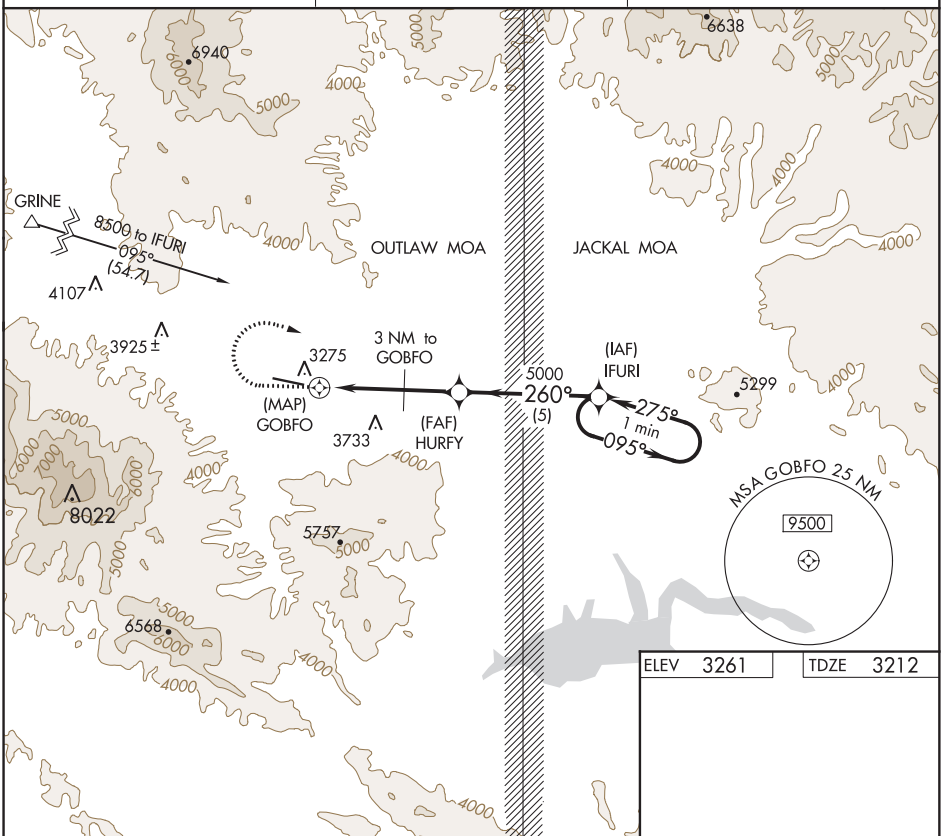
APP CRS	Rwy ldg	6500
260°	TDZE	3212
	Apt Elev	3261

GPS RWY 27
SAN CARLOS APACHE (P13)

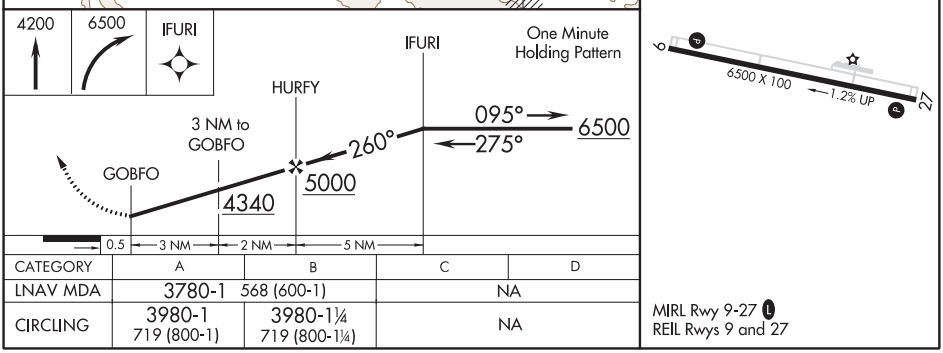
When local altimeter setting not received, procedure NA.
Helicopter visibility reduction below ¾ SM not authorized.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4200, then climbing right turn to 6500 direct IFURI WP and hold.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
120.075	125.4 269.3	122.8 (CTAF)



ELEV	3261	TDZE	3212



CATEGORY	A	B	C	D
LNAV MDA	3780-1 568 (600-1)		NA	
CIRCLING	3980-1 719 (800-1)	3980-1¼ 719 (800-1¼)	NA	

MIRL Rwy 9-27
REIL Rwys 9 and 27

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(IZTIR2.IZTIR) 20198

IZTIR TWO DEPARTURE (OBSTACLE) (RNAV)

AL-6635 (FAA)

SAN CARLOS APACHE (P13)
GLOBE, ARIZONA

ALBUQUERQUE CENTER
125.4 269.3
PRESCOTT RADIO
122.5

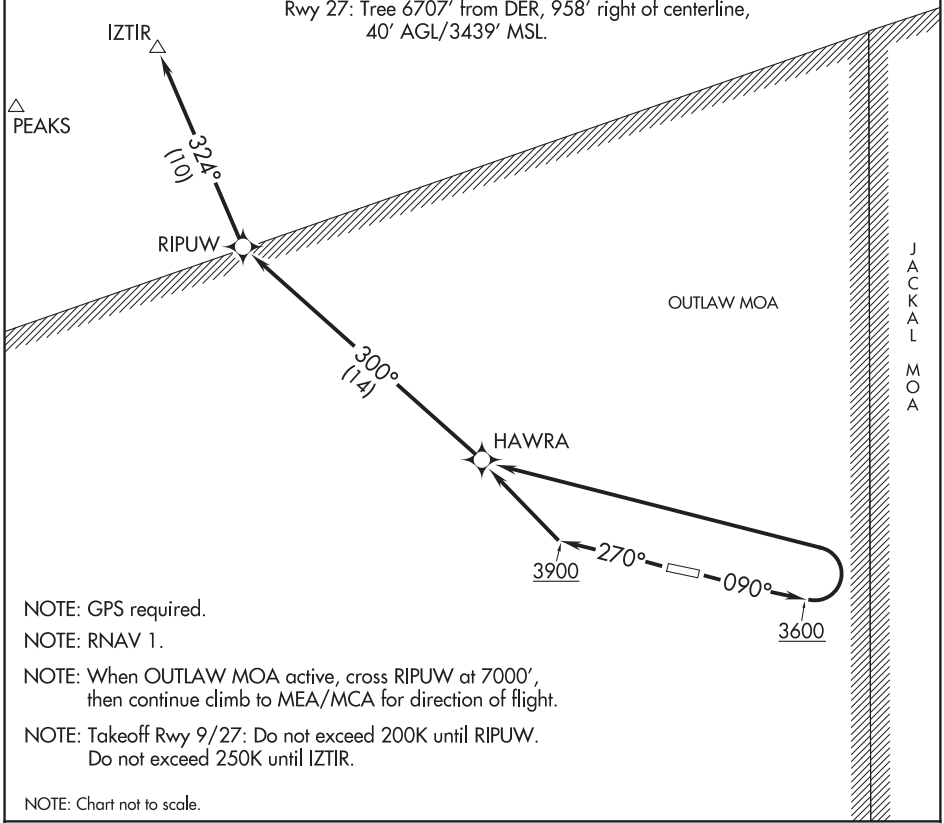
SALTS

TAKEOFF MINIMUMS

Rwy 9: Standard with minimum climb of 409′ per NM to 6900.
Rwy 27: Standard with minimum climb of 370′ per NM to 5500.

TAKEOFF OBSTACLE NOTES

Rwy 9: Numerous trees beginning 566′ from DER, 126′ right of centerline, up to 40′ AGL/3289′ MSL.
Rwy 27: Tree 6707′ from DER, 958′ right of centerline, 40′ AGL/3439′ MSL.



NOTE: GPS required.

NOTE: RNAV 1.

NOTE: When OUTLAW MOA active, cross RIPUW at 7000′, then continue climb to MEA/MCA for direction of flight.

NOTE: Takeoff Rwy 9/27: Do not exceed 200K until RIPUW. Do not exceed 250K until IZTIR.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 9: Climb heading 090° to 3600, then climbing left turn direct HAWRA, then via depicted route to IZTIR. Thence. . . .

TAKEOFF RUNWAY 27: Climb heading 270° to 3900, then climbing right turn direct HAWRA, then via depicted route to IZTIR. Thence. . . .

. . . .climb on course to MEA for assigned route of flight.

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 42839 W03A	APP CRS 030°	Rwy ldg 8500 TDZE 954 Apt Elev 969

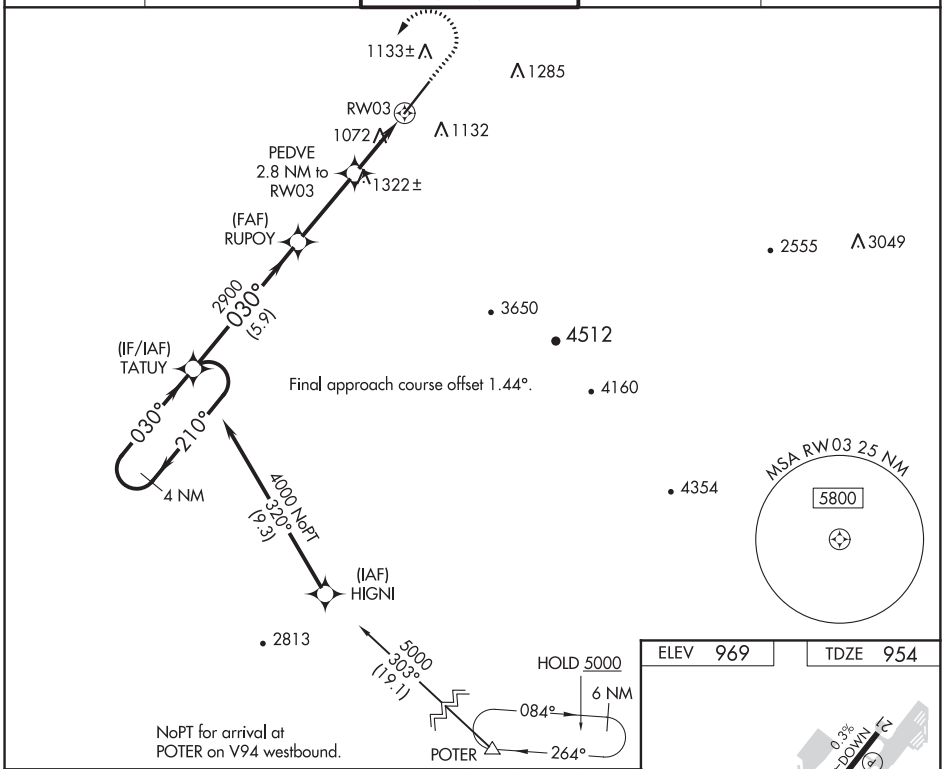
RNAV (GPS) RWY 3
PHOENIX GOODYEAR (GYR)

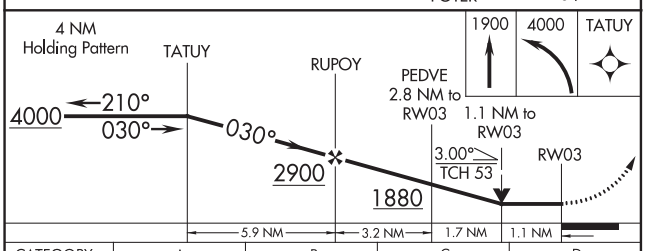
RNP APCH.

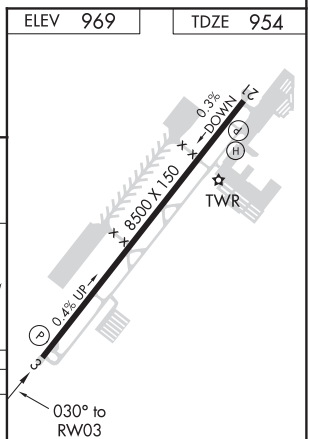
Procedure NA at night. Helicopter visibility reduction below ¾ SM NA. VDP NA when using Phoenix Sky Harbor Intl altimeter setting. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting: increase all MDA 80 feet and visibility LP/LNAV Cat C/D and Circling Cat C ¼ SM.

MISSED APPROACH: Climb to 1900 then climbing left turn to 4000 direct TATUY and hold.

ATIS	LUKE APP CON ★	GOODYEAR TOWER ★	GND CON	UNICOM
118.35	125.45 263.125	120.1 (CTAF) 239.3	121.7	122.95







CATEGORY	A	B	C	D
LP MDA	1340-1 386 (400-1)		1340-1⅛ 386 (400-1⅛)	
LNAV MDA	1580-1 626 (700-1)		1580-1¾ 626 (700-1¾)	
C CIRCLING	1580-1 611 (700-1)		1860-2¾ 891 (900-2¾)	1920-3 951 (1000-3)

REIL Rwys 3 and 21
MIRL Rwy 3-21

SW-4, 05 NOV 2020 to 31 DEC 2020

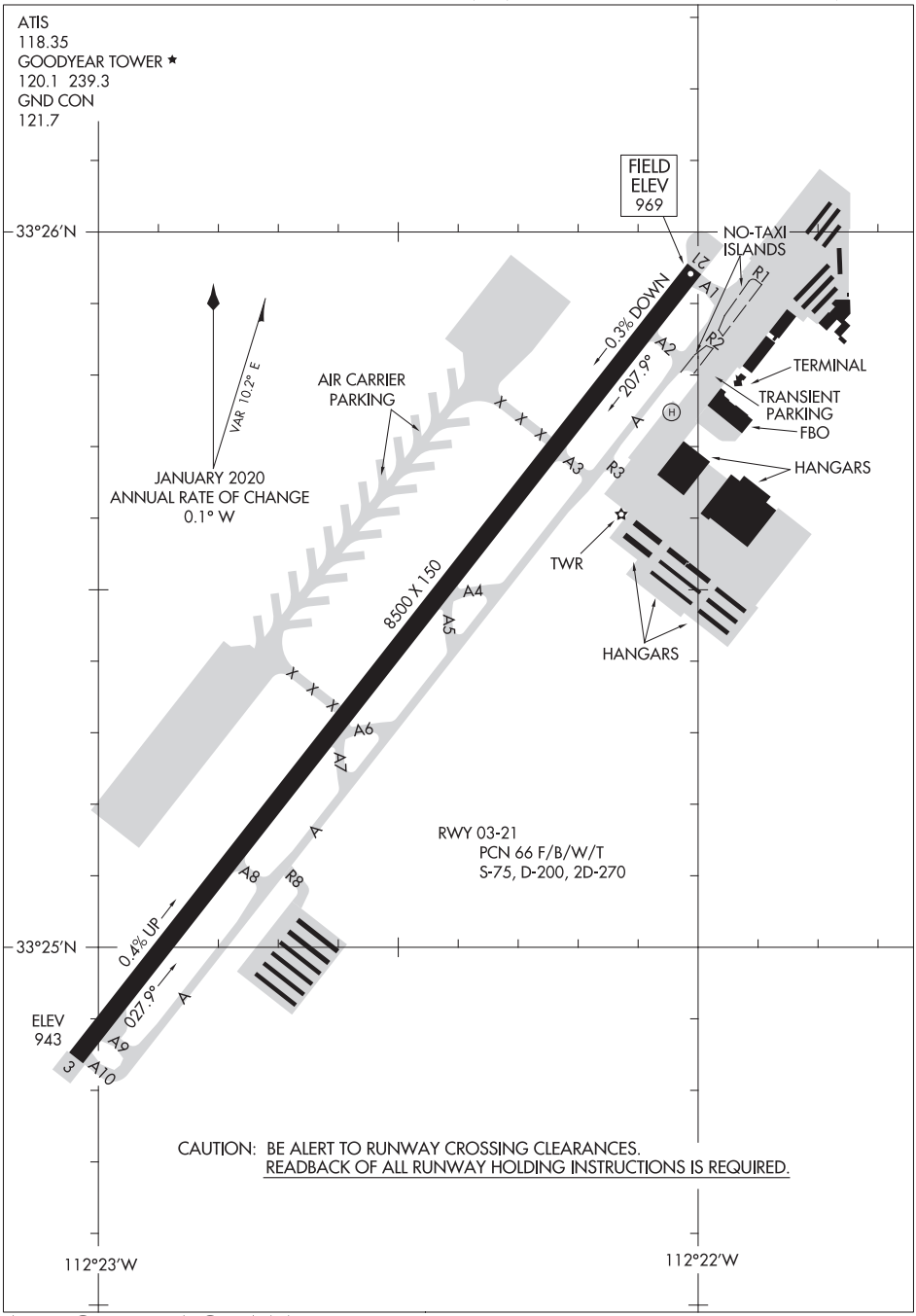
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-6648 (FAA)

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

1480
028°
208°
1480
RUPOY
140°
(30)
POTER

TAKEOFF OBSTACLES NOTES

Rwy 3: Poles beginning 159′ from DER, 267′ right of centerline, up to 47′ AGL/1015′ MSL.
Building 1512′ from DER, 828′ right of centerline, 48′ AGL/1014′ MSL.
Tree 1957′ from DER, 551′ right of centerline, up to 49′ AGL/1019′ MSL.

Rwy 21: Transmission tower 2610′ from DER, 1078′ left of centerline, 125′ AGL/1047′ MSL.
Transmission tower 3190′ from DER, 311′ left of centerline, 112′ AGL/1031′ MSL.
Pole 3193′ from DER, 308′ left of centerline, 112′ AGL/1030′ MSL.

NOTE: RNAV 1.

NOTE: GPS required.

TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 500′ per NM to 1480 then minimum climb of 431′ per NM to 4600.
Rwy 21: Standard with minimum climb of 500′ per NM to 1480.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° to 1480, then right turn direct RUPOY thence. . . .

TAKEOFF RUNWAY 21: Climb heading 208° to 1480, then direct RUPOY thence. . . .

. . . .on track 140° to POTER. Expect filed altitude 3 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(BNYRD6.BNYRD) 18144

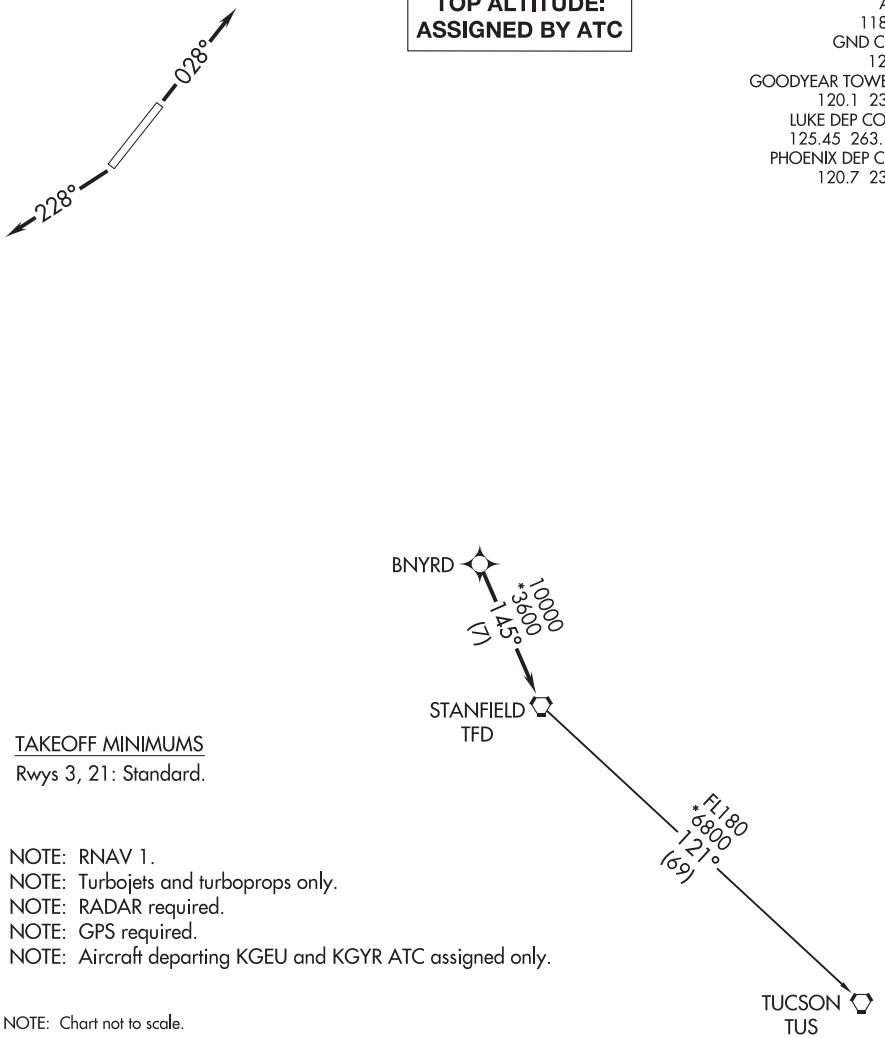
BNYRD SIX DEPARTURE (RNAV)

AL-6648 (FAA)

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0



TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

SW-4, 05 NOV 2020 to 31 DEC 2020

BNYRD SIX DEPARTURE (RNAV)
(BNYRD6.BNYRD) 24MAY18

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

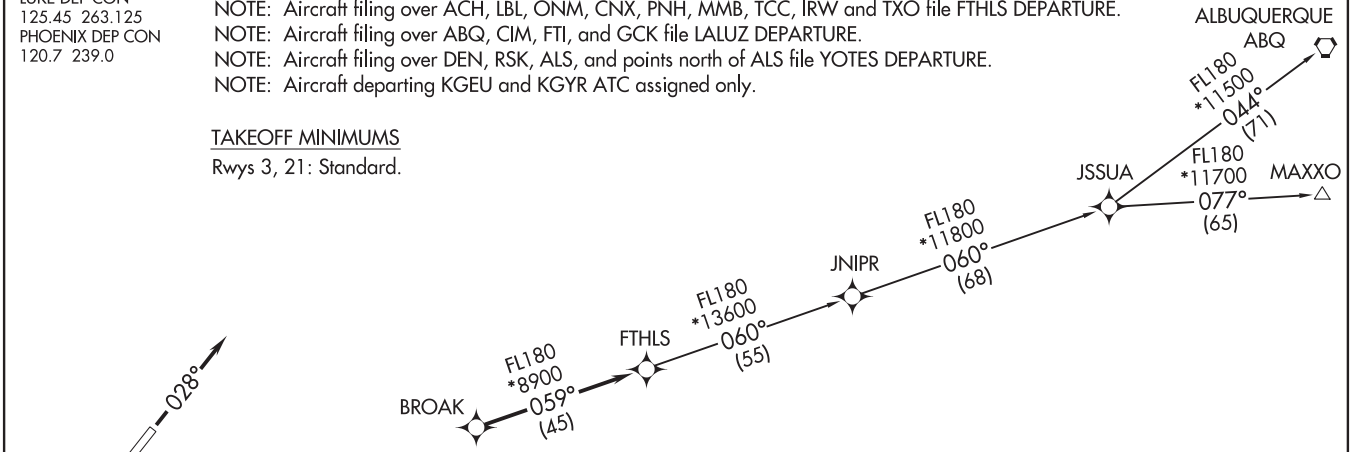
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 3, 21: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)

JNIPR TRANSITION (FTHLS6.JNIPR)

MAXXO TRANSITION (FTHLS6.MAXXO)

NOTE: Chart not to scale.

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON ★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

NOTE: RADAR required.

N

DRAKE
114.1 DRK
Chan 88
N34°42.15′-W112°28.82′
L-8, H-4

FLAGSTAFF
113.85 FLG
Chan 85(Y)
N35°08.83′-W111°40.45′
L-8, H-4

WINSLOW
112.6 INW
Chan 73
N35°03.70′-W110°47.70′
L-8, H-4

ST JOHNS
112.3 SJN
Chan 70
N34°25.44′-W109°08.61′
L-8, H-4

TAKEOFF MINIMUMS
Rwy 3: Standard
Rwy 21: Standard with minimum climb of 252′ per NM to 2300.

TAKEOFF OBSTACLE NOTES
Rwy 3: Poles beginning 159′ from DER, 267′ right of centerline, up to 47′ AGL/1015′ MSL.
Building 1512′ from DER, 828′ right of centerline, 48′ AGL/1014′MSL.
Tree 1957′ from DER, 551′ right of centerline, up to 49′ AGL/1019′ MSL.
Rwy 21: Transmission tower 2610′ from DER, 1078′ left of centerline, 125′ AGL/1047′ MSL.
Transmission tower 3190′ from DER, 311′ left of centerline, 112′ AGL/1031′ MSL.
Pole 3193′ from DER, 308′ left of centerline, 112′ AGL/1030 MSL.

BUCKEYE
110.6 BXK
Chan 43
N33°27.21′-W112°49.48′
L-5, H-4

GILA BEND
116.6 GBN
Chan 113
N32°57.38′-W112°40.46′
L-5, H-4

PHOENIX
115.6 PXR
Chan 103
N33°25.98′-W111°58.21′
L-5, H-4

STANFIELD
114.8 TFD
Chan 95
N32°53.15′-W111°54.52′
L-5, H-4

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb to assigned altitude on assigned heading between 353° CW to 063° from DER, thence . . . .
TAKEOFF RUNWAY 21: Climb to assigned altitude on assigned heading between 208° CW to 243° from DER, thence . . . .

. . . . Expect radar vectors to assigned route. Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within one minute after departure, climb to 6000′ then proceed direct BXK VORTAC, then via assigned route.

IZZZO SEVEN DEPARTURE (RNAV)

(IZZZO7.IZZZO) 24MAY18

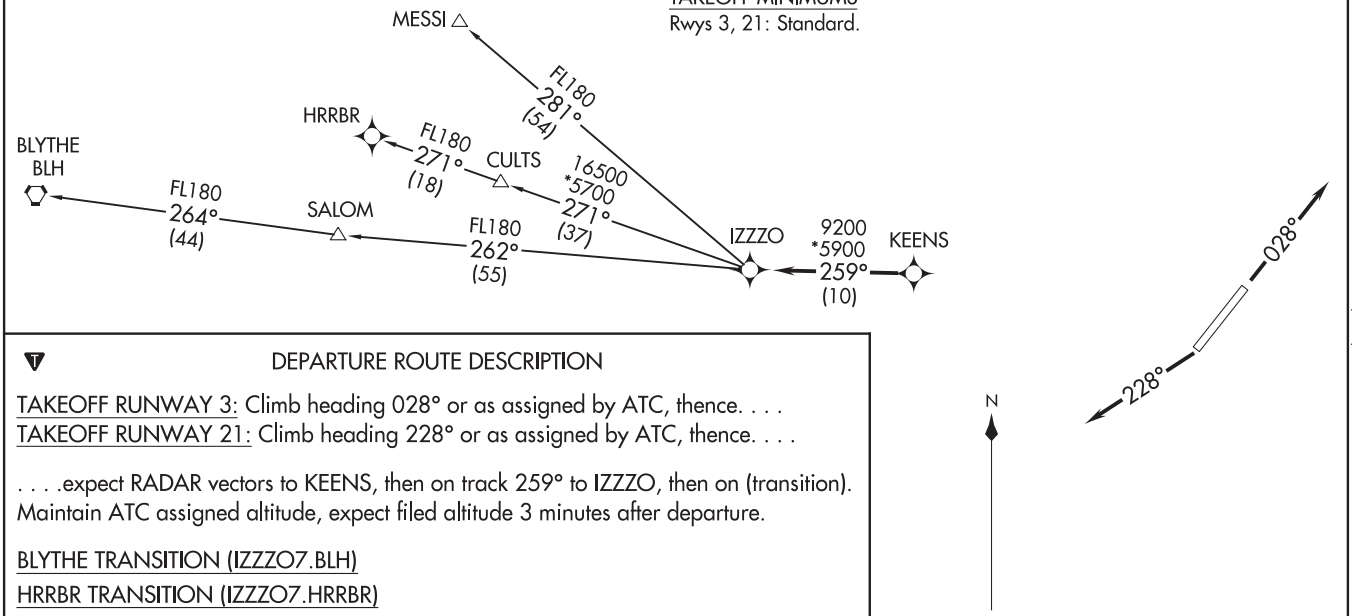
PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON ★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 3, 21: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO7.BLH)

HRRBR TRANSITION (IZZZO7.HRRBR)

MESSI TRANSITION (IZZZO7.MESSI)

NOTE: Chart not to scale.

IZZZO SEVEN DEPARTURE (RNAV)
(IZZZO7.IZZZO) 18144
PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

AL-6648 (FAA)

JUDTH SEVEN DEPARTURE (RNAV)

(JUDTH7.JUDTH) 24MAY18

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .

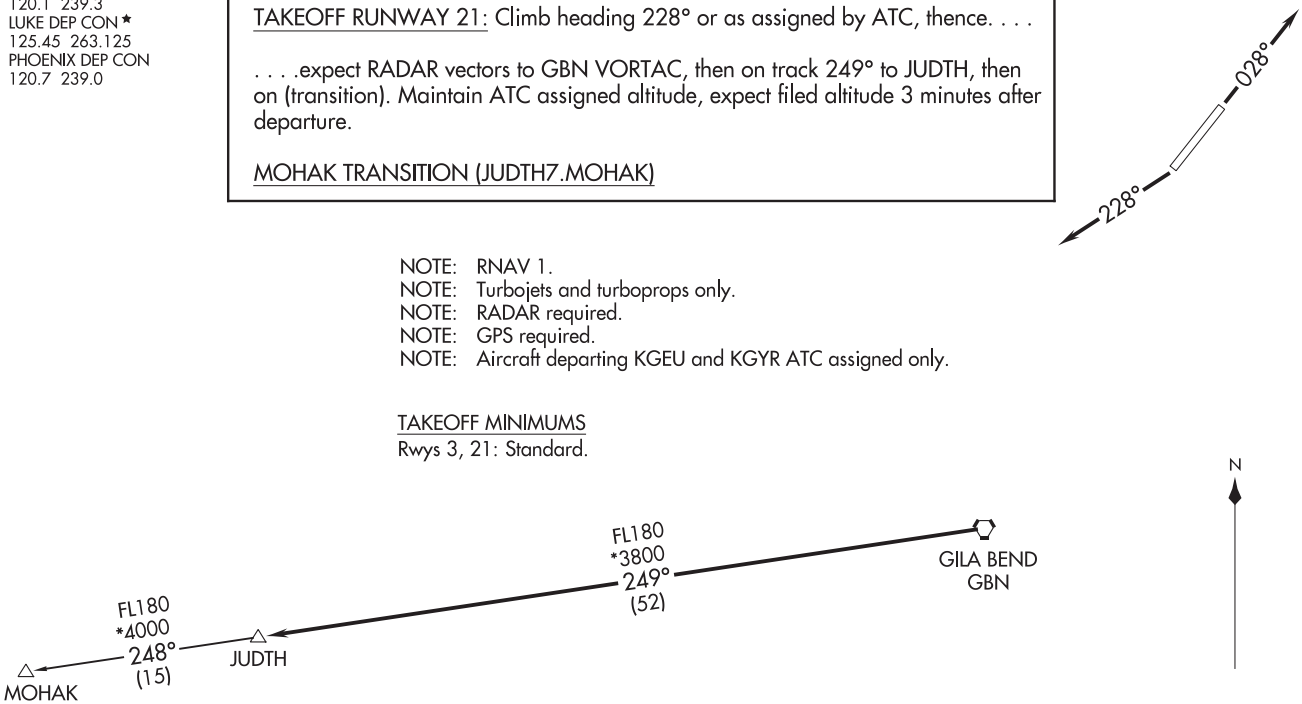
TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 3, 21: Standard.



NOTE: Chart not to scale.

(JUDTH7.JUDTH) 18144
JUDTH SEVEN DEPARTURE (RNAV)
AL-6648 (FAA)
PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

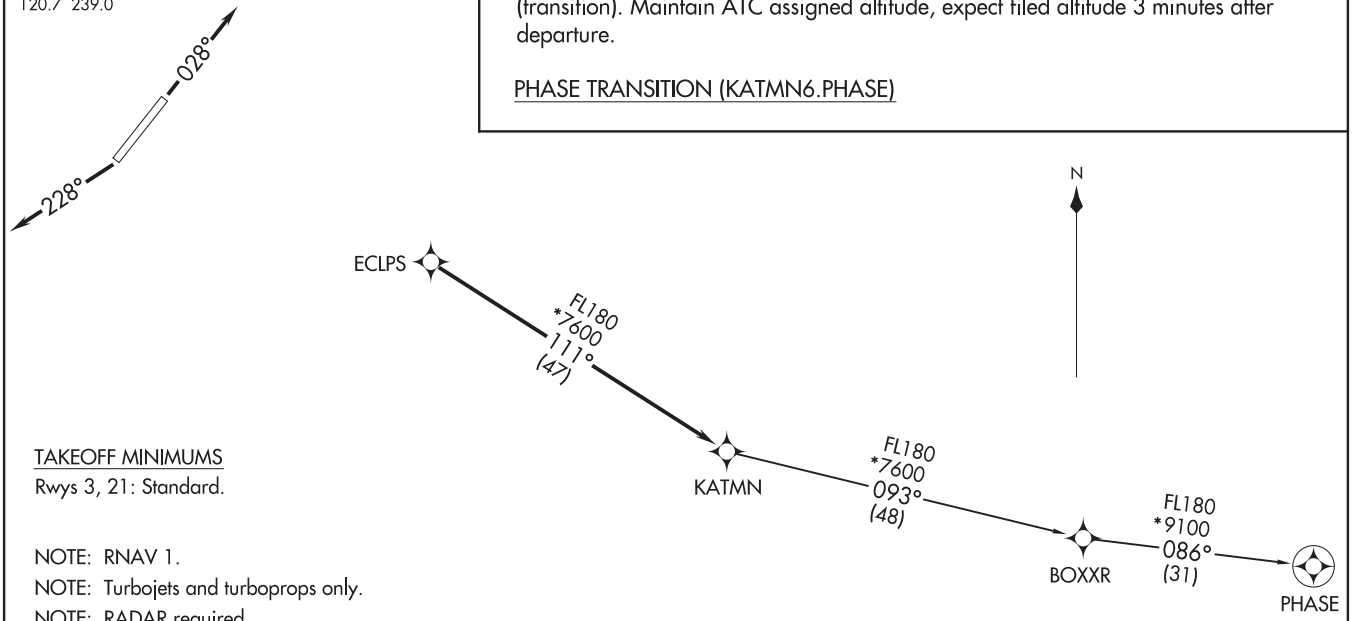
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)



TAKEOFF MINIMUMS
Rwys 3, 21: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing from KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

LALUZ SIX DEPARTURE (RNAV)

(LALUZ6.LALUZ) 24MAY18

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

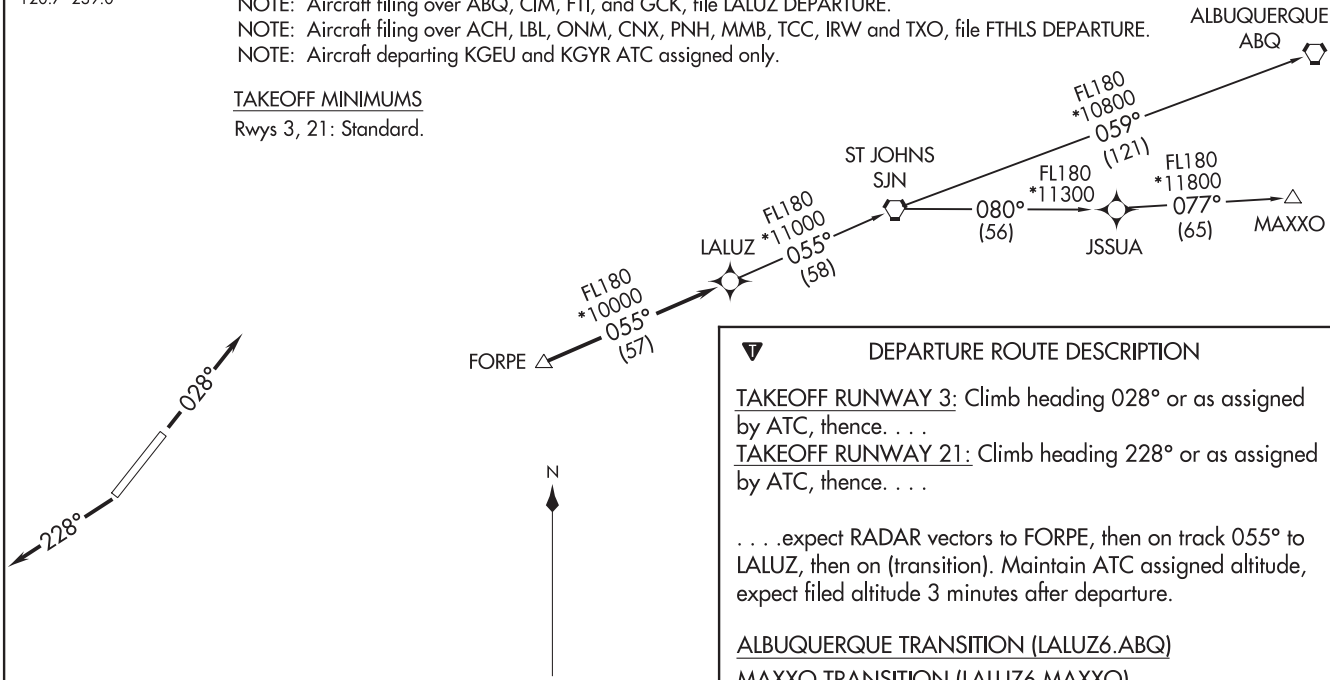
ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwys 3, 21: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climb heading 228° or as as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)
MAXXO TRANSITION (LALUZ6.MAXXO)
ST JOHNS TRANSITION (LALUZ6.SJN)

(LALUZ6.LALUZ) 18144
LALUZ SIX DEPARTURE (RNAV)

AL-6648 (FAA)

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

SW-4, 05 NOV 2020 to 31 DEC 2020

MAYSA SEVEN DEPARTURE (RNAV)

AL-6648 (FAA)

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER★
120.1 239.3
LUKE DEP CON★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

RRSTA

FL190
*8400
308°
(15)

MAYSA

FL190
308°
(42)

ZEPER
10000

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
Do not file.

028°

228°

TAKEOFF MINIMUMS
Rwys 3, 21: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb on heading 028° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climb on heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

(SNOBL6.SNOBL) 18144

SNOBL SIX DEPARTURE (RNAV)

AL-6648 (FAA)

PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.35
GND CON
121.7
GOODYEAR TOWER ★
120.1 239.3
LUKE DEP CON ★
125.45 263.125
PHOENIX DEP CON
120.7 239.0

GRAND CANYON
GCN

342°
(26)
FL180
*9500

RIMMM

343°
(10)
FL180
*11500

LOFTS

343°
(36)
FL180
*11500

CARTL

343°
(20)
FL180
*9300

SNOBL

343°
(20)
14600
*8100

QUAKY

YOOPR

JARPA

FL180
*10700
043°
(94)

FL180
*10700
050°
(123)

TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

028°
228°

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

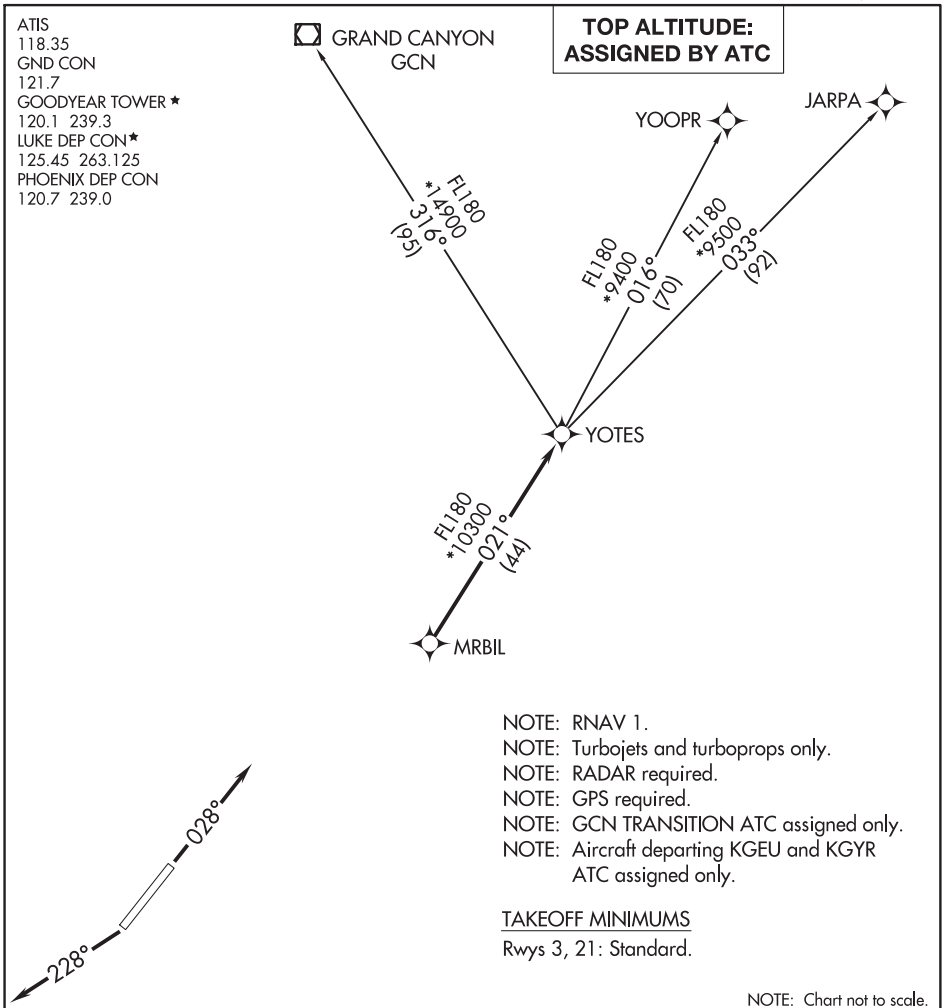
CARTL TRANSITION (SNOBL6.CARTL)
GRAND CANYON TRANSITION (SNOBL6.GCN)
JARPA TRANSITION (SNOBL6.JARPA)
RIMMM TRANSITION (SNOBL6.RIMMM)
YOOPR TRANSITION (SNOBL6.YOOPR)

SW-4, 05 NOV 2020 to 31 DEC 2020

SNOBL SIX DEPARTURE (RNAV)
(SNOBL6.SNOBL) 24MAY18
GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

YOTES SIX DEPARTURE (RNAV)

AL-6648 (FAA)



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

GRAND CANYON, ARIZONA — AL-5381 (FAA) — 19227

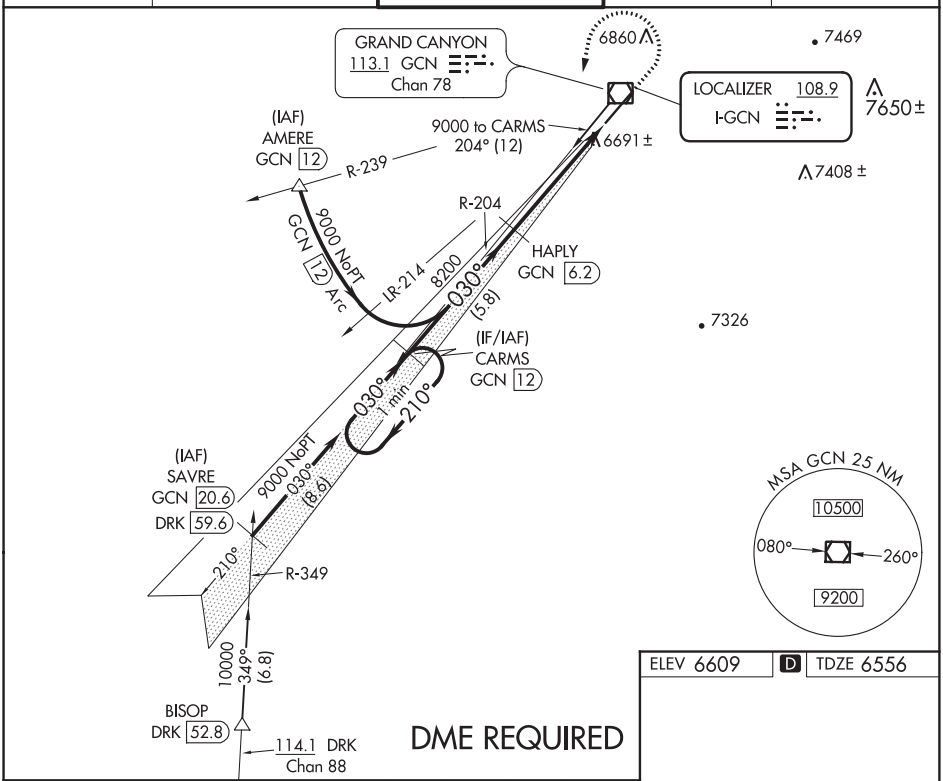
LOC I-GCN	APP CRS	Rwy ldg / TDZE / Apt Elev
108.9	030°	8999 / 6556 / 6609

ILS or LOC RWY 3
GRAND CANYON NATIONAL PARK (GCN)

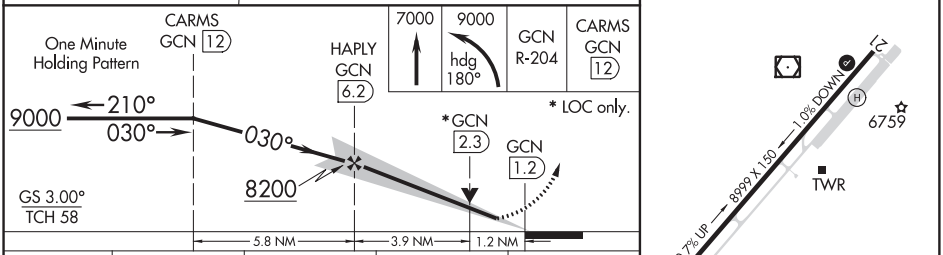
T A DME from GCN VOR/DME. Simultaneous reception of I-GCN and GCN DME required. DME required.

MISSED APPROACH: Climb to 7000 then climbing left turn to 9000 on heading 180° and on GCN VOR/DME R-204 direct CARMS/GCN 12 DME and hold.

ATIS	LOS ANGELES CENTER	CANYON TOWER*	GND CON	UNICOM
124.3	124.85 319.2	119.0 (CTAF) L	121.9	122.95



ELEV 6609 | D | TDZE 6556



CATEGORY	A	B	C	D
S-ILS 3	6795-¾ 239 (200-¾)			
S-LOC 3	6960-1 404 (400-1)		6960-1⅛ 404 (400-1⅛)	
C CIRCLING	7140-1 531 (600-1)	7200-1 591 (600-1)	7280-2 671 (700-2)	7620-3 1011 (1100-3)

GRAND CANYON, ARIZONA
Amdt 1 27APR17

35°57′N-112°09′W

GRAND CANYON NATIONAL PARK (GCN)
ILS or LOC RWY 3

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

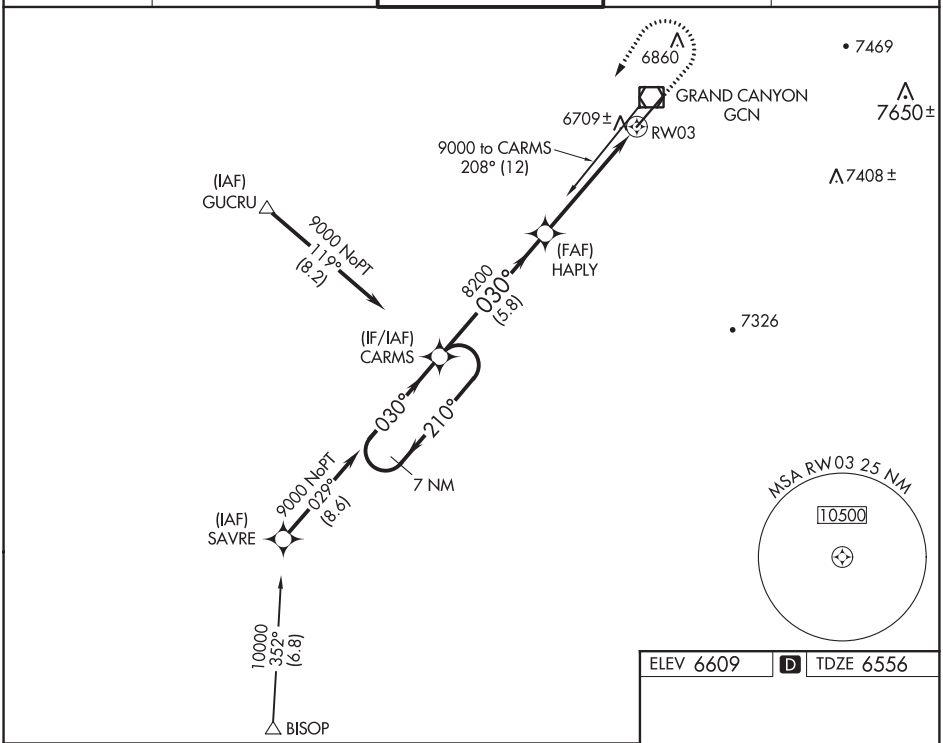
WAAS CH 86340 W03A	APP CRS 030°	Rwy ldg 8999 TDZE 6556 Apt Elev 6609

RNAV (GPS) RWY 3
GRAND CANYON NATIONAL PARK (GCN)

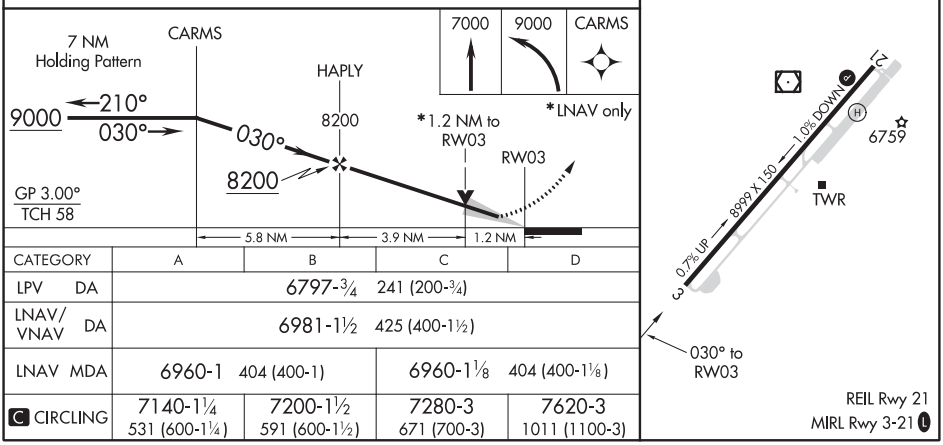
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -12°C (11°F) or above 44°C (111°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 7000 then climbing left turn to 9000 direct CARMS and hold.

ATIS	LOS ANGELES CENTER	CANYON TOWER*	GND CON	UNICOM
124.3	124.85 319.2	119.0 (CTAF) L	121.9	122.95



ELEV 6609 D TDZE 6556



CATEGORY	A	B	C	D
LPV DA	6797-¾ 241 (200-¾)			
LNAV/VNAV DA	6981-1½ 425 (400-1½)			
LNAV MDA	6960-1 404 (400-1)		6960-1⅛ 404 (400-1⅛)	
C CIRCLING	7140-1¼ 531 (600-1¼)	7200-1½ 591 (600-1½)	7280-3 671 (700-3)	7620-3 1011 (1100-3)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

GRAND CANYON, ARIZONA AL-5381 (FAA) 20310

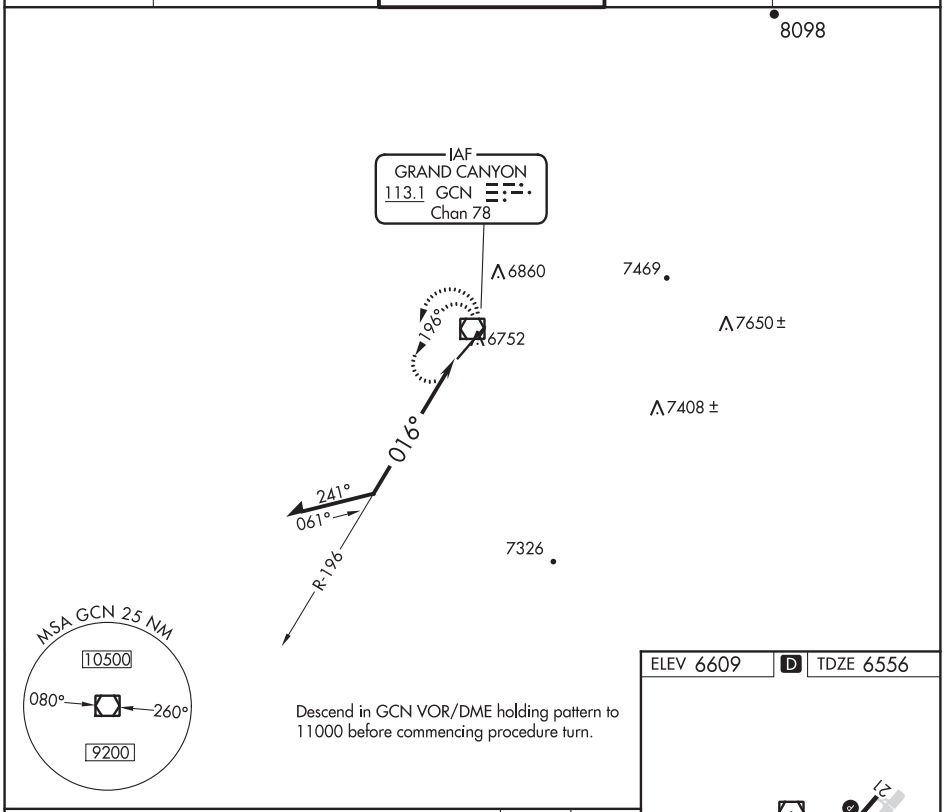
VOR/DME GCN	APP CRS	Rwy ldg 8999
113.1	016°	TDZE 6556
Chan 78		Apt Elev 6609

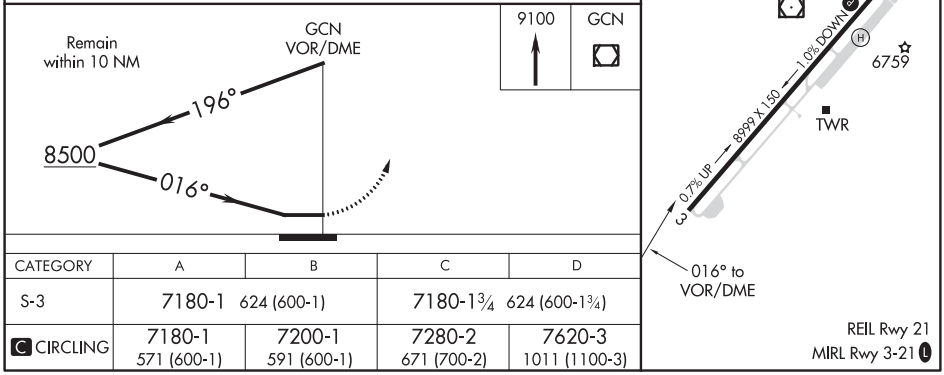
VOR RWY 3
GRAND CANYON NATIONAL PARK (GCN)

T A Rwy 3 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 9100 in GCN VOR/DME holding pattern.

ATIS	LOS ANGELES CENTER	CANYON TOWER*	GND CON	UNICOM
124.3	124.85 319.2	119.0 (CTAF) L	121.9	122.95

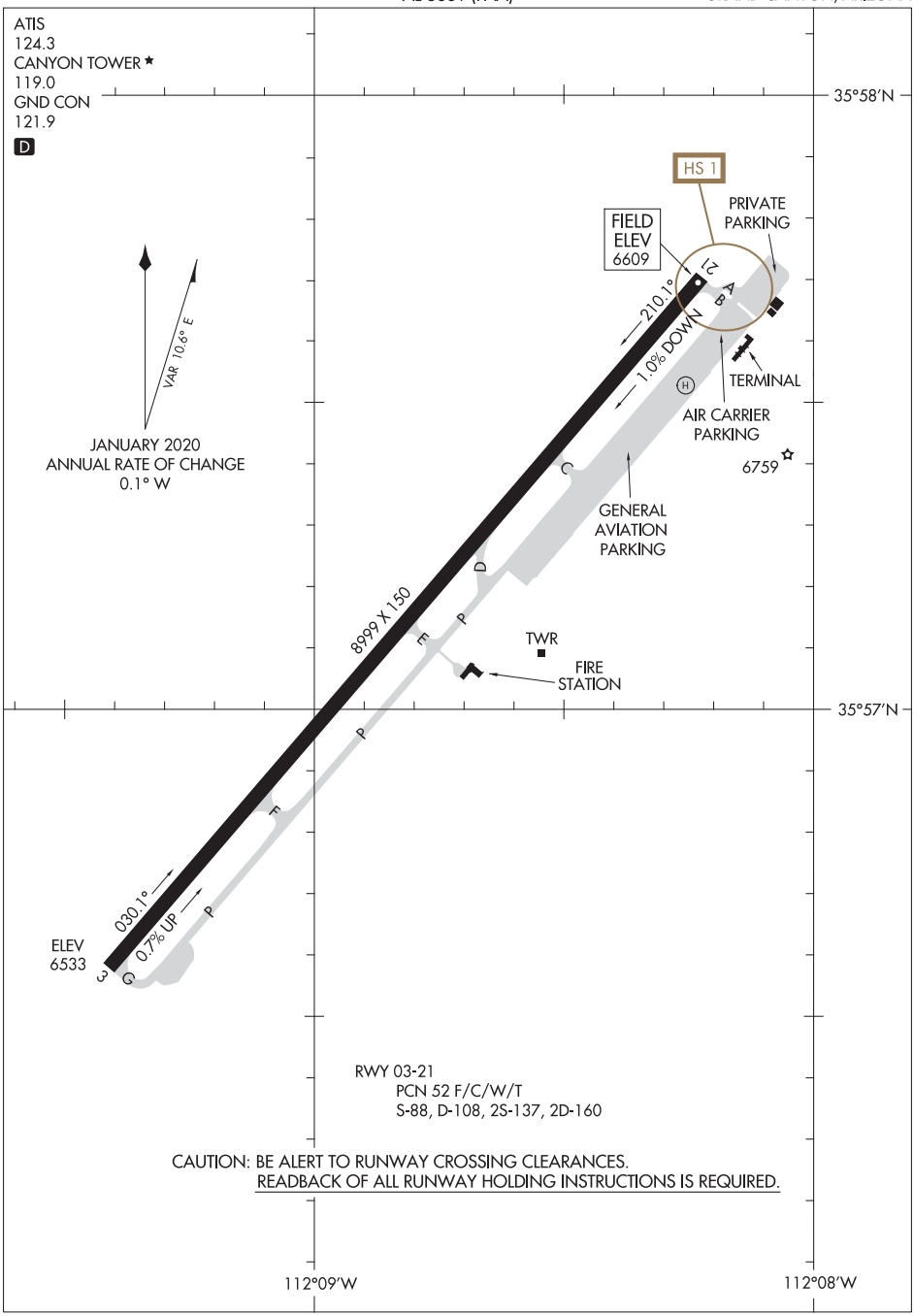




CATEGORY	A	B	C	D
S-3	7180-1 624 (600-1)		7180-1¾ 624 (600-1¾)	
C CIRCLING	7180-1 571 (600-1)	7200-1 591 (600-1)	7280-2 671 (700-2)	7620-3 1011 (1100-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(GRAND4.BISOP) 17117

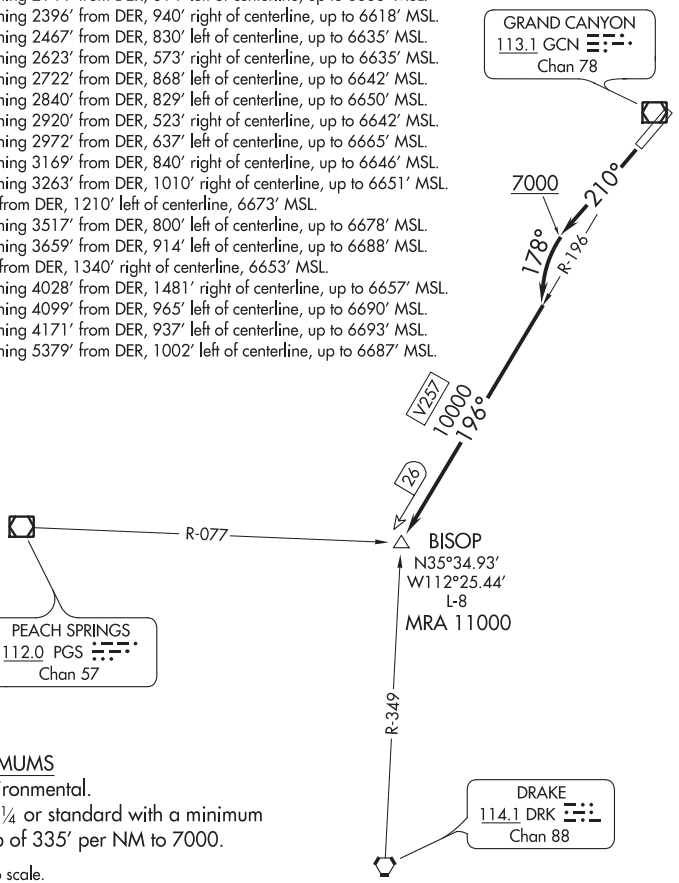
GRAND FOUR DEPARTURE (OBSTACLE)

GRAND CANYON NATIONAL PARK (GCN)
SL-5381 (FAA)
GRAND CANYON, ARIZONA

TAKEOFF OBSTACLE NOTES

Rwy 21: Sign 10′ from DER, 330′ left of centerline, 5′ AGL/ 6536′ MSL.
Tree 282′ from DER, 481′ right of centerline, 6543′ MSL.
Ground 440′ from DER, 615′ left of centerline, 6545′ MSL.
Tree 1024′ from DER, 711′ right of centerline, 6568′ MSL.
Ground 1081′ from DER, 768′ left of centerline, 6571′ MSL.
Tree 1285′ from DER, 835′ right of centerline, 6575′ MSL.
Tree 1691′ from DER, 917′ left of centerline, 6610′ MSL.
Tree 1803′ from DER, 929′ left of centerline, 6621′ MSL.
Trees beginning 1943′ from DER, 835′ left of centerline, up to 6632′ MSL.
Tree 1960′ from DER, 993′ right of centerline, 6601′ MSL.
Tree, pole beginning 2060′ from DER, 912′ right of centerline, up to 6615′ MSL.
Trees beginning 2144′ from DER, 814′ left of centerline, up to 6633′ MSL.
Trees beginning 2396′ from DER, 940′ right of centerline, up to 6618′ MSL.
Trees beginning 2467′ from DER, 830′ left of centerline, up to 6635′ MSL.
Trees beginning 2623′ from DER, 573′ right of centerline, up to 6635′ MSL.
Trees beginning 2722′ from DER, 868′ left of centerline, up to 6642′ MSL.
Trees beginning 2840′ from DER, 829′ left of centerline, up to 6650′ MSL.
Trees beginning 2920′ from DER, 523′ right of centerline, up to 6642′ MSL.
Trees beginning 2972′ from DER, 637′ left of centerline, up to 6665′ MSL.
Trees beginning 3169′ from DER, 840′ left of centerline, up to 6646′ MSL.
Trees beginning 3263′ from DER, 1010′ right of centerline, up to 6651′ MSL.
Tree 3500′ from DER, 1210′ left of centerline, 6673′ MSL.
Trees beginning 3517′ from DER, 800′ left of centerline, up to 6678′ MSL.
Trees beginning 3659′ from DER, 914′ left of centerline, up to 6688′ MSL.
Tree 3996′ from DER, 1340′ right of centerline, 6653′ MSL.
Trees beginning 4028′ from DER, 1481′ right of centerline, up to 6657′ MSL.
Trees beginning 4099′ from DER, 965′ left of centerline, up to 6690′ MSL.
Trees beginning 4171′ from DER, 937′ left of centerline, up to 6693′ MSL.
Trees beginning 5379′ from DER, 1002′ left of centerline, up to 6687′ MSL.

ATIS
124.3
GND CON
121.9
CANYON TOWER★
119.0
ALBUQUERQUE CENTER
128.45 298.9
LOS ANGELES CENTER
124.85 319.2
UNICOM
122.95



TAKEOFF MINIMUMS

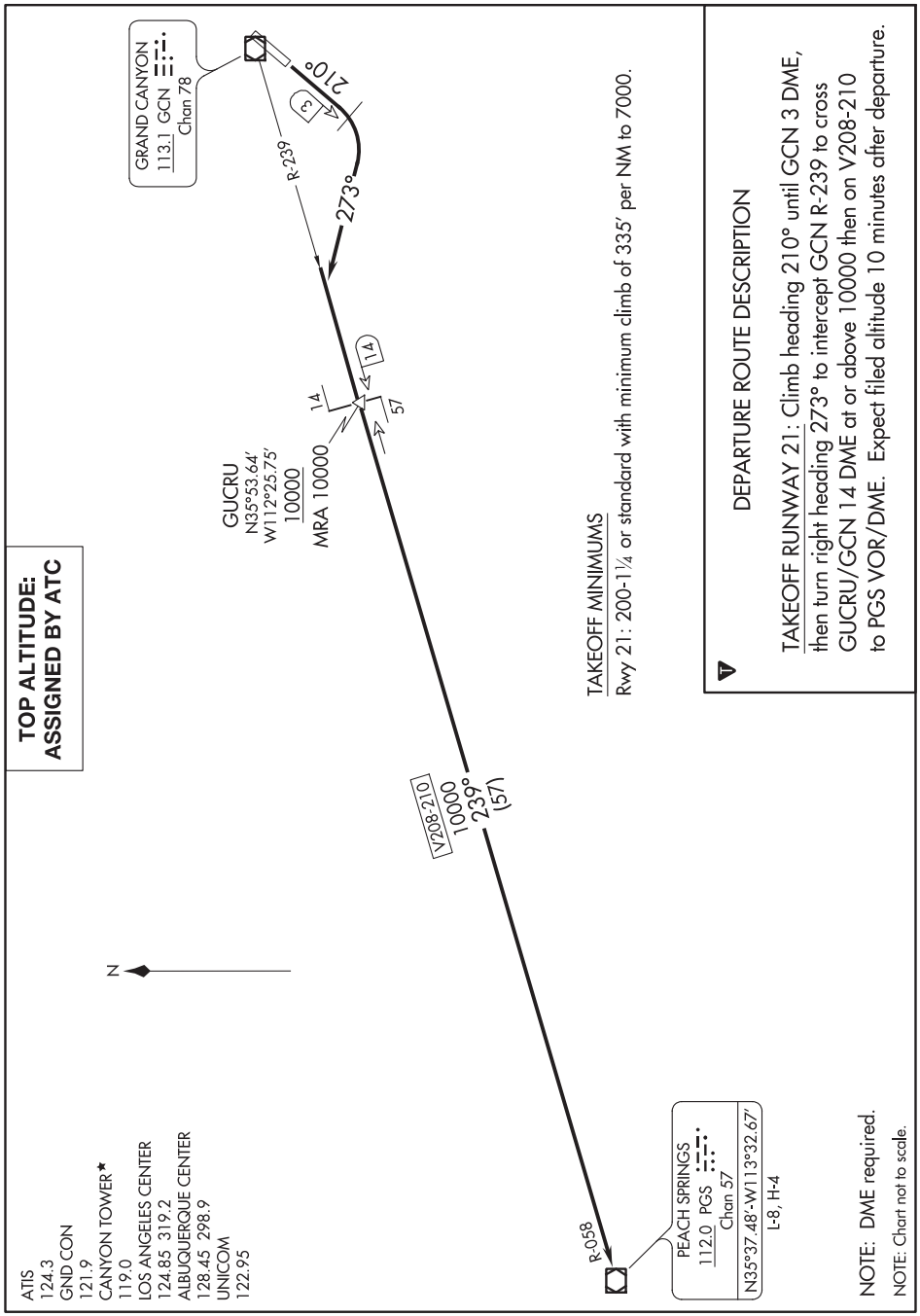
Rwy 3: NA-Environmental.
Rwy 21: 200-1¼ or standard with a minimum climb of 335′ per NM to 7000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 21: Climb heading 210° to 7000, then turn left heading 178° to intercept GCN VOR/DME R-196 to BISOP INT. Expect filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020


TOP ALTITUDE:
ASSIGNED BY ATC
ATIS
124.3
GND CON
121.9
CANYON TOWER*
119.0
LOS ANGELES CENTER
124.85 319.2
ALBUQUERQUE CENTER
128.45 298.9
UNICOM
122.95
N
GRAND CANYON
113.1 GCN
Chan 78
R-239
210°
3
273°
14
57
GUCRU
N35°53.64'
W112°25.75'
10000
MRA 10000
V208-210
10000
239°
(57)
R-058
PEACH SPRINGS
112.0 PGS
Chan 57
N35°37.48'-W113°32.67'
L-8, H-4
TAKEOFF MINIMUMS
Rwy 21: 200-1¼ or standard with minimum climb of 335' per NM to 7000.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAY 21: Climb heading 210° until GCN 3 DME, then turn right heading 273° to intercept GCN R-239 to cross GUCRU/GCN 14 DME at or above 10000 then on V208-210 to PGS VOR/DME. Expect filed altitude 10 minutes after departure.
NOTE: DME required.
NOTE: Chart not to scale.

GRAND CANYON, ARIZONA AL-9240 (FAA) 20310

GPS RWY 1
VALLE (4ØG)

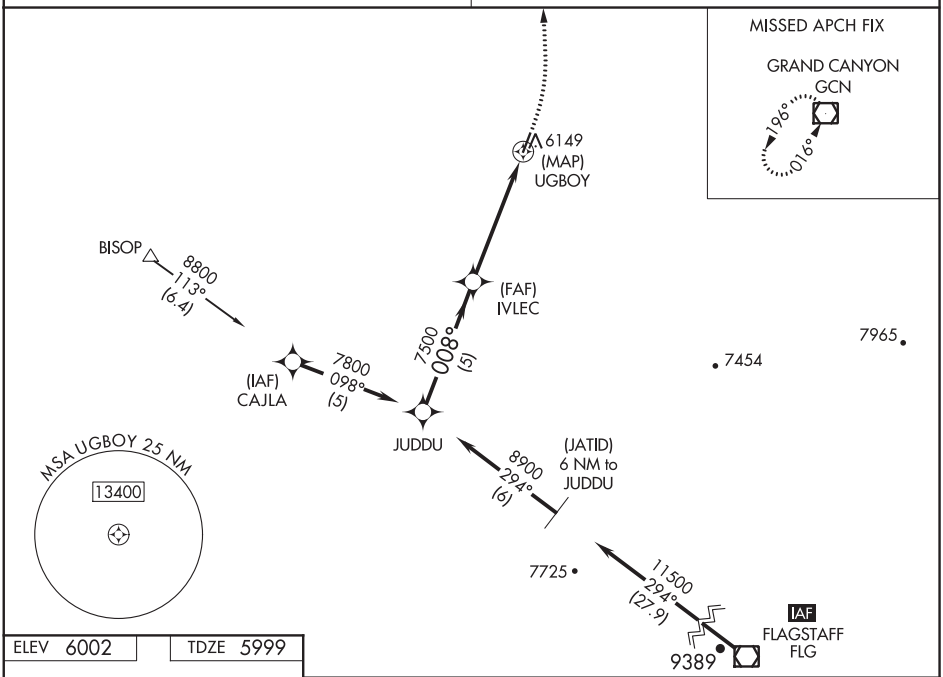
APP CRS	Rwy ldg	4199
008°	TDZE	5999
	Apt Elev	6002

T NA

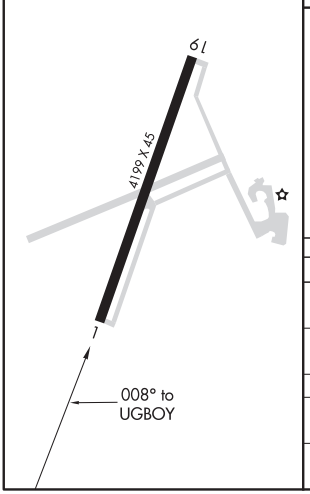
IAF ARM APPROACH MODE PRIOR TO IAF.
Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized. Procedure NA at night.

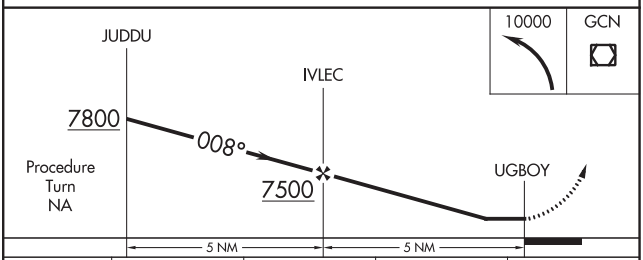
MISSED APPROACH: Climbing left turn to 10000 direct to GCN VOR/DME and hold.

LOS ANGELES CENTER	UNICOM
124.85 319.2	122.8 (CTAF)



ELEV 6002 TDZE 5999





CATEGORY	A	B	C	D
S-1	6480-1	481 (500-1)	6480-1¼ 481 (500-1¼)	NA
CIRCLING	6480-1	478 (500-1)	6500-1½ 498 (500-1½)	NA
GRAND CANYON NATIONAL PARK ALTIMETER SETTING MINIMUMS				
S-1	6620-1	621 (700-1)	6620-1¾ 621 (700-1¾)	NA
CIRCLING	6620-1	618 (700-1)	6640-1¾ 638 (700-1¾)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

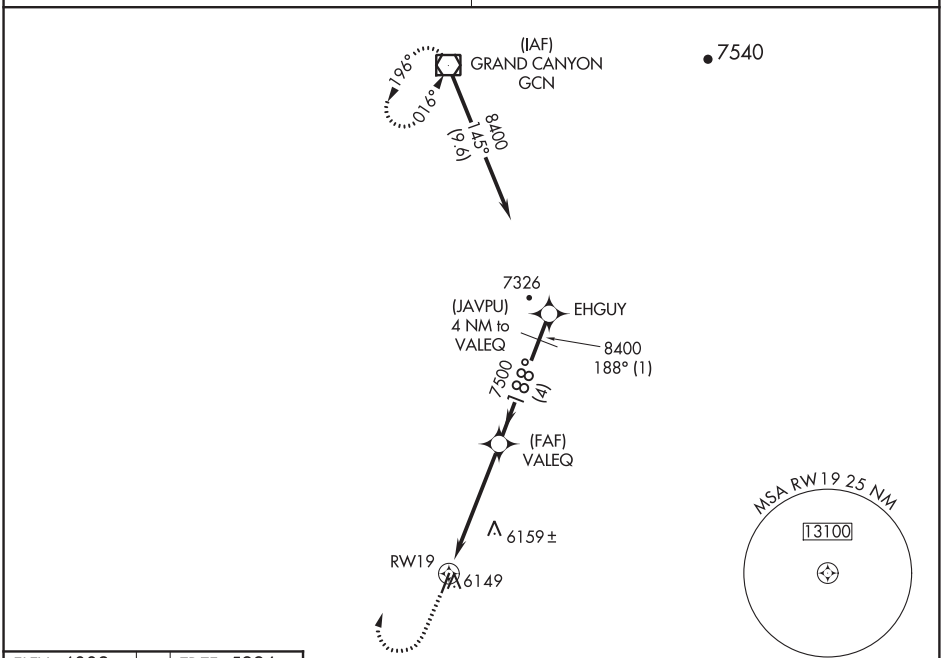
APP CRS	Rwy ldg	4199
188°	TDZE	5996
	Apt Elev	6002

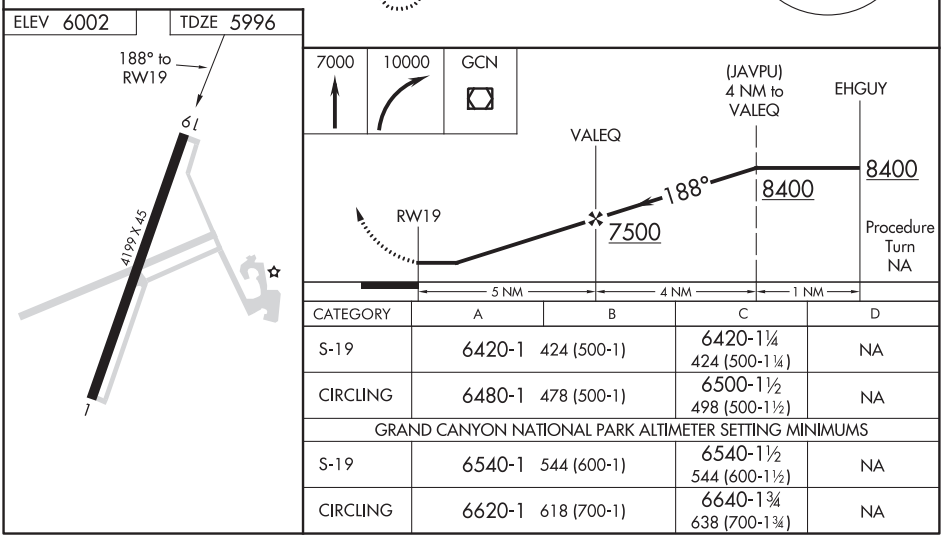
GPS RWY 19
VALLE (4ØG)

T A NA — Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized. Procedure NA at night.

MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct GCN VOR/DME and hold.

LOS ANGELES CENTER	UNICOM
124.85 319.2	122.8 (CTAF)





CATEGORY	A	B	C	D
S-19	6420-1	424 (500-1)	6420-1¼ 424 (500-1¼)	NA
CIRCLING	6480-1	478 (500-1)	6500-1½ 498 (500-1½)	NA
GRAND CANYON NATIONAL PARK ALTIMETER SETTING MINIMUMS				
S-19	6540-1	544 (600-1)	6540-1½ 544 (600-1½)	NA
CIRCLING	6620-1	618 (700-1)	6640-1¾ 638 (700-1¾)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

HAWTHORNE, NEVADA | AL-9919 (FAA) | 18088

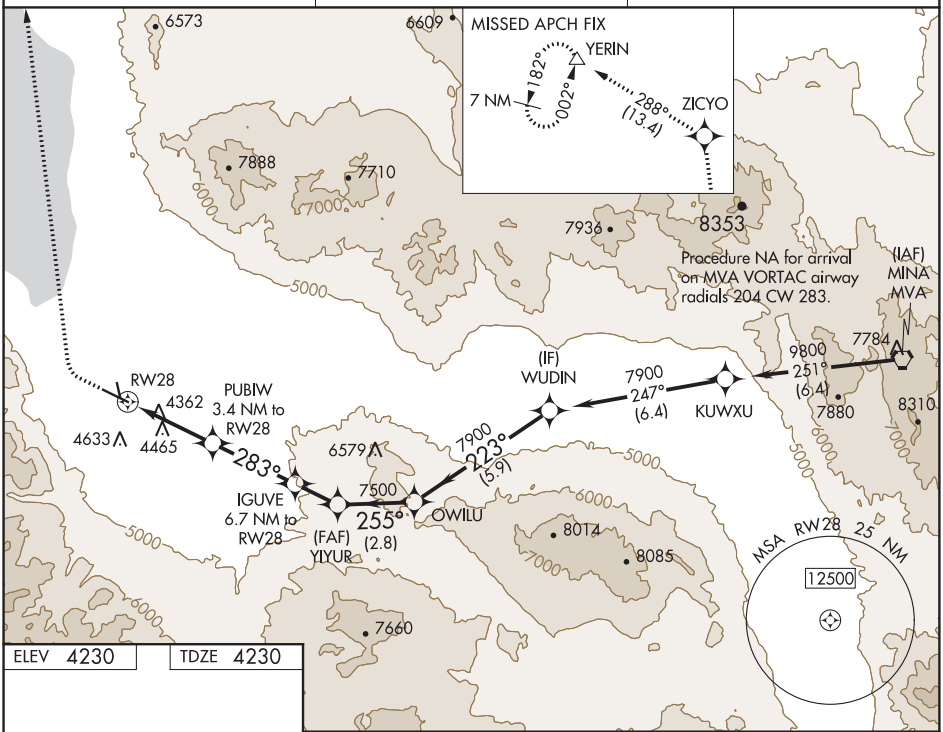
RNAV (GPS) RWY 28
HAWTHORNE INDUSTRIAL (HTH)

WAAS CH 56540 W28A	APP CRS 283°	Rwy ldg 6000 TDZE 4230 Apt Elev 4230

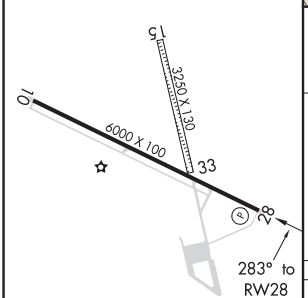
Circling NA to Rwys 15 and 33. When local altimeter setting not received, procedure NA. Circling NA south of Rwy 10-28. DME/DME RNP-0.3 NA. Rwy 28 helicopter visibility reduction below ¾ SM NA.

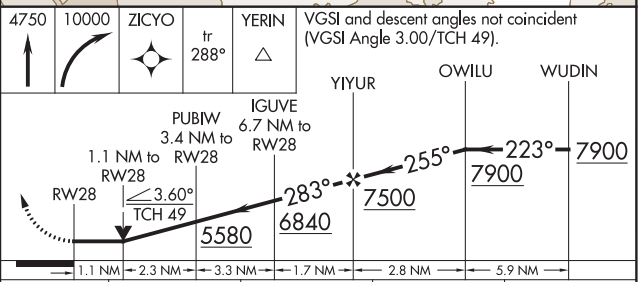
MISSED APPROACH: Climb to 4750 then climbing right turn to 10000 direct ZICYO and on track 288° to YERIN and hold.

AWOS-3	OAKLAND CENTER	UNICOM
120.225	125.75 284.65	122.8 (CTAF) L



ELEV 4230 | TDZE 4230





CATEGORY	A	B	C	D
LP MDA	4620-1 390 (400-1)		4620-1⅛ 390 (400-1⅛)	NA
LNAV MDA	4720-1 490 (500-1)		4720-1⅜ 490 (500-1⅜)	NA
C CIRCLING	4720-1 490 (500-1)		5680-3 1450 (1500-3)	NA

REIL Rwys 10 and 28 L
MIRL Rwys 10-28 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	N/A
179°	TDZE	N/A
	Apt Elev	5637

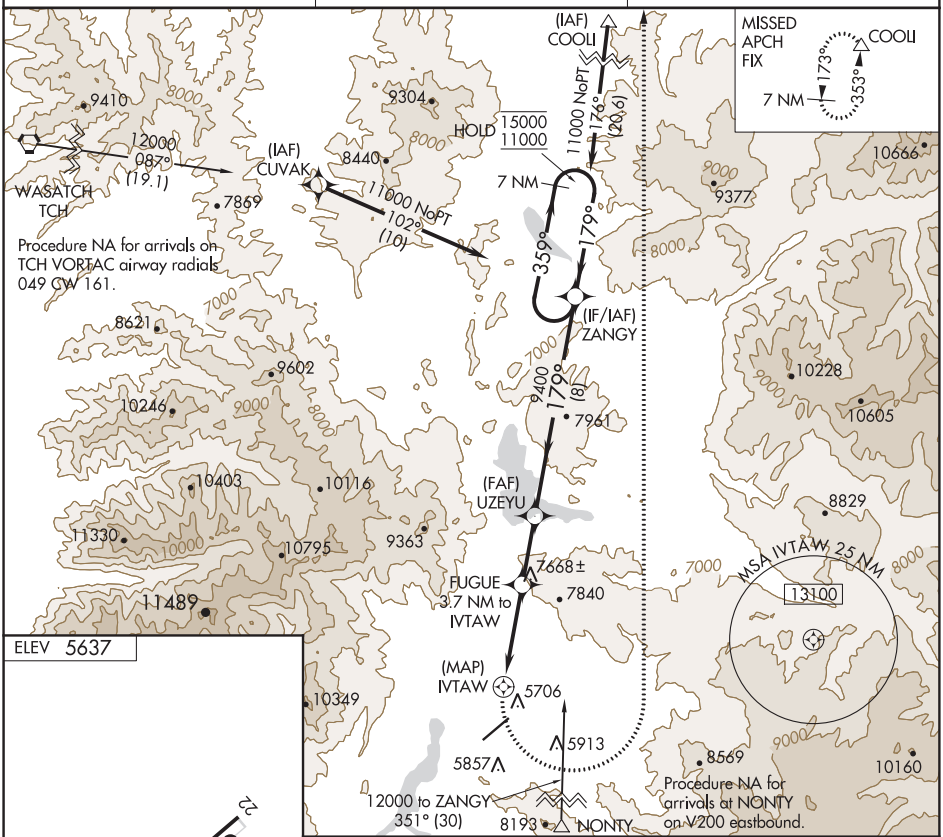
RNAV (GPS)-A
HEBER VALLEY (HCR)

RNP APCH.

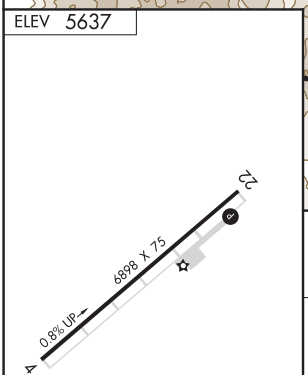
Circling NA south of Rwy 4-22.
Circling Rwy 4 NA at night.

MISSED APPROACH: (Do not exceed 210K until turn completion)
Climbing left turn to 12000 direct COOLI and hold.

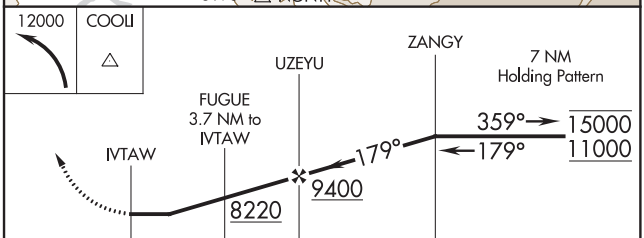
AWOS-3PT	SALT LAKE CITY CENTER	UNICOM
124.825	119.95 377.15	122.8 (CTAF)



ELEV 5637



MIRL Rwy 4-22



CATEGORY	A	B	C	D
C CIRCLING	8020-1½ 2383 (2400-1½)		8020-3 2383 (2400-3)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(COOLI6.COOLI) 19227

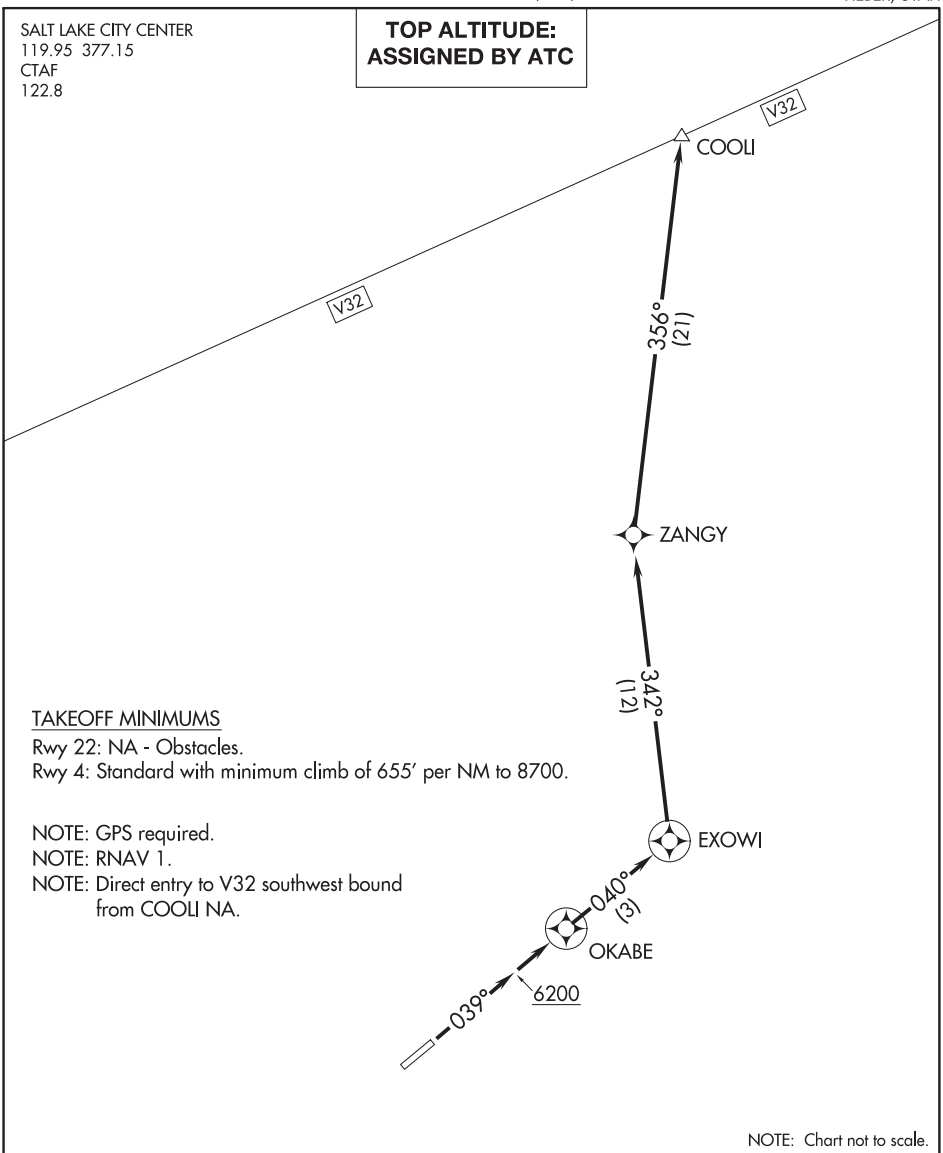
COOLI SIX DEPARTURE (RNAV)

AL-6969 (FAA)

HEBER VALLEY (HCR)
HEBER, UTAH

SALT LAKE CITY CENTER
119.95 377.15
CTAF
122.8

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwy 22: NA - Obstacles.
Rwy 4: Standard with minimum climb of 655′ per NM to 8700.

NOTE: GPS required.
NOTE: RNAV 1.
NOTE: Direct entry to V32 southwest bound from COOLI NA.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4: Climb heading 039° to 6200, then climb to 12000 (or maintain ATC assigned altitude) direct OKABE and on track 040° to EXOWI, then on depicted route to COOLI.

SW-4, 05 NOV 2020 to 31 DEC 2020

OGDEN, UTAH

ILS or LOC X RWY 14

LOC I-HIF	APCH CRS	Rwy ldg 13,500
109.9	139°	TDZE 4786
		Arpt Elev 4789

AL-296 [USAF]

HILL AFB (KHIF)

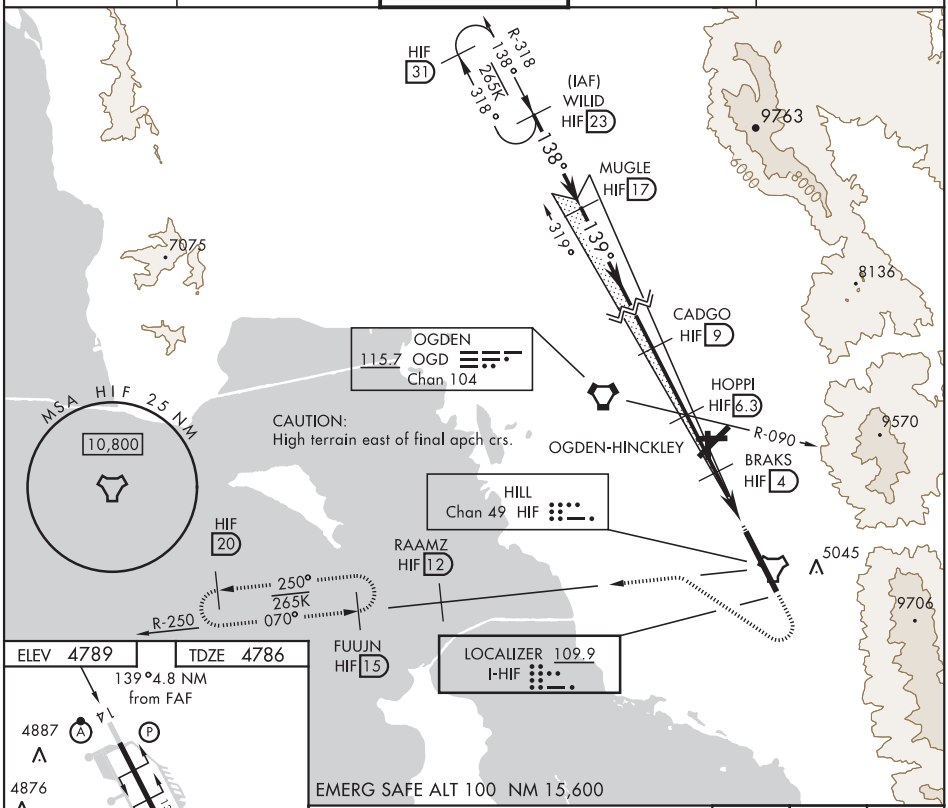
RADAR or DME required for LOC.

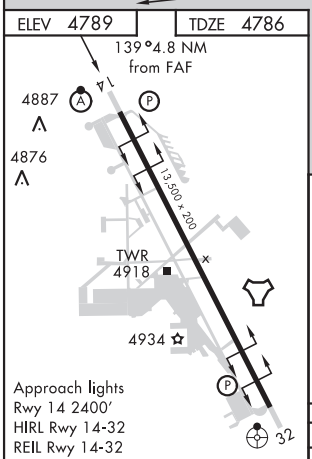
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase RVR to 55 and vis to 1 mile.
*** Circling not authorized in sector NE of Rwy 14-32.

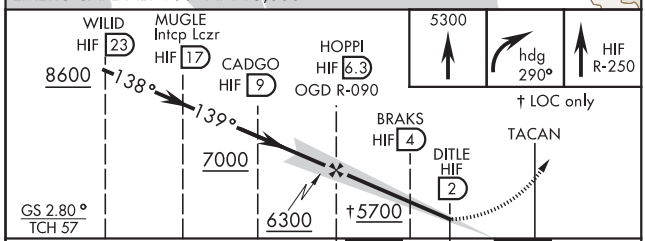
ALSF-2

MISSED APPROACH: Climb to 5300, then turn right heading 290°, remain within HIF TACAN 5.7 DME until established on 290° heading. Intercept the HIF R-250 outbound.Cross RAAMZ at 6500, then climb and maintain 7200 direct to FUUJN and hold.

ATIS	SALT LAKE CITY APP CON	HILL TOWER	GND CON	CLNC DEL
134.925 397.9	121.1 319.25	127.15 263.15	121.6 275.8	124.1 335.8







FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

CATEGORY	A	B	C	D	E
S-ILS 14 *	4986/24		200	(200-½)	
S-LOC 14 **	5040/24		254	(300-½)	
*** C CIRCLING	5240-1	451 (500-1)	5240-1½ 451(500-1½)	5340-2 551 (600-2)	5860-3 1071 (1100-3)

OGDEN, UTAH

41° 07'N-111° 58'W

HILL AFB (KHIF)

Amdt 7 13AUG20

ILS or LOC X RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

20254

OGDEN, UTAH

ILS or LOC Z RWY 14

LOC I-HIF	APCH CRS	Rwy ldg 13,500
109.9	139°	TDZE 4786
		Arpt Elev 4789

AL-296 [USAF]

HILL AFB (KHIF)

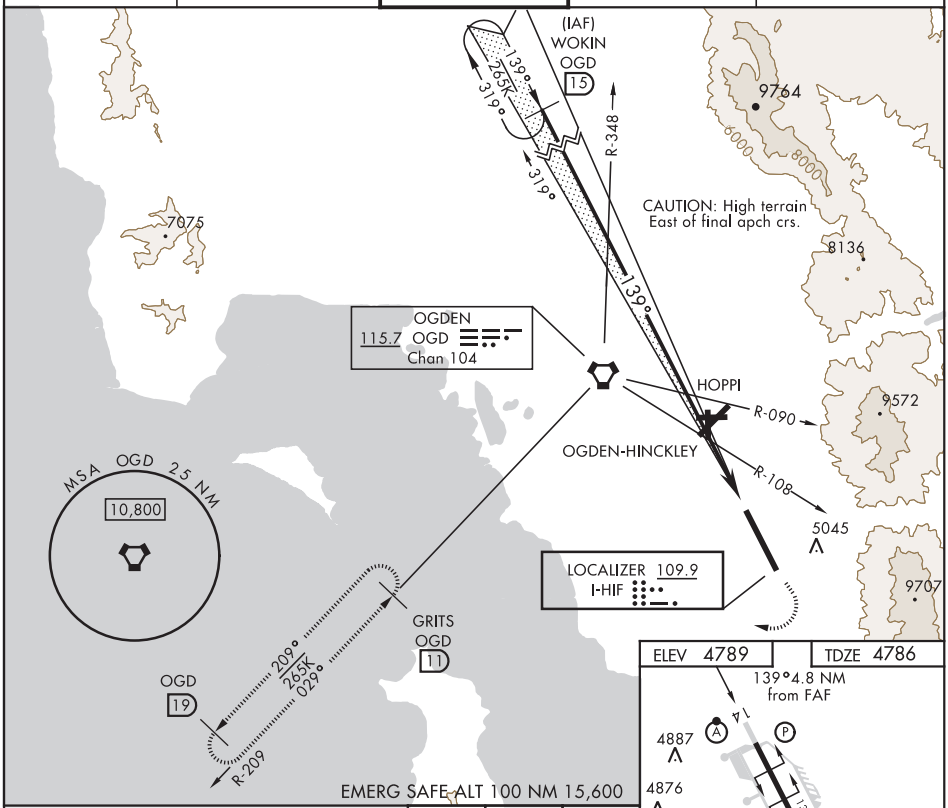
DME required.

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase RVR to 50 and vis to 1 mile.
*** Circling not authorized in sector NE of Rwy 14-32.

ALSF-2

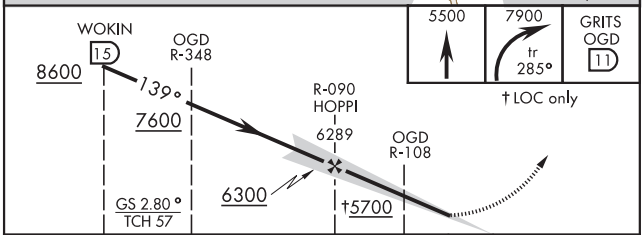
MISSED APPROACH: To 5500, then climbing right turn to 7900, track 285° intercept OGD VORTAC R-209 to GRITS and hold.

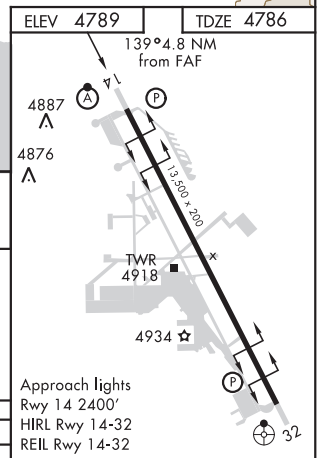
ATIS	SALT LAKE CITY APP CON	HILL TOWER	GND CON	CLNC DEL
134.925 397.9	121.1 319.25	127.15 263.15	121.6 275.8	124.1 335.8



5500	7900	GRITS OGD 11
	tr 285°	

† LOC only





CATEGORY	A	B	C	D	E
S-ILS 14 *	4986/24 200 (200-½)				
S-LOC 14 **	5060/24 274 (300-½)		5060/40 274 (300-¾)		
*** C CIRCLING	5240-1 451 (500-1)		5240-1½ 451(500-1½)	5340-2 551 (600-2)	

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

OGDEN, UTAH

41° 07'N-111° 58'W

HILL AFB (KHIF)

Amdt 3 05MAR15

ILS or LOC Z RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

OGDEN, UTAH

TACAN RWY 14

HILL AFB (KHIF)

TACAN HIF Chan 49	APCH CRS 131°	Rwy ldg 13,500 TDZE 4786 Arpt Elev 4789

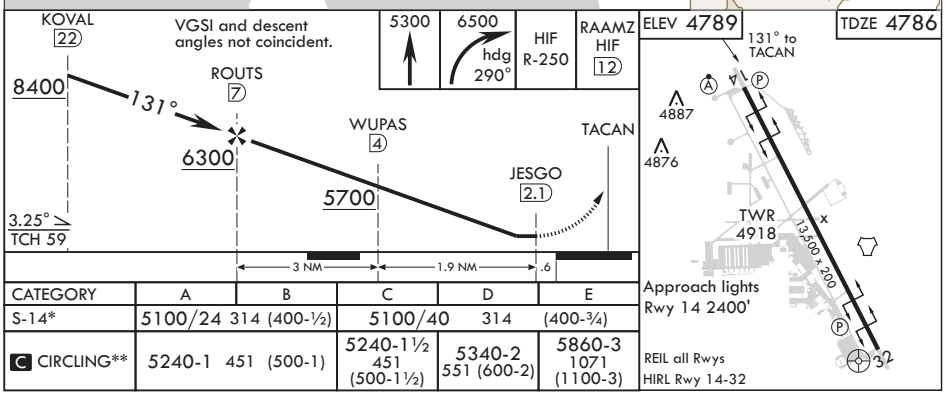
AL-296 (USAF)

* When ALS inop, increase RVR to 55, vis to 1 mile.
** Circling not authorized in sector NE of Rwy 14-32.

ALSF-2

MISSED APPROACH: Climb to 5300, then turn right heading 290°, remain within HIF TACAN 5.7 DME until established on 290° heading. Intercept HIF R-250 outbound. Cross RAAMZ at 6500, then climb and maintain 7200 direct to FUUJN and hold.

ATIS	SALT LAKE CITY APP CON	TOWER	GND CON	CLNC DEL
134.925 397.9	121.1 319.25	127.15 263.15	121.6 275.8	124.1 335.8



CATEGORY	A	B	C	D	E
S-14*	5100/24 314 (400-½)		5100/40 314 (400-¾)		
C CIRCLING**	5240-1 451 (500-1)		5240-1½ 451 (500-1½)	5340-2 551 (600-2)	5860-3 1071 (1100-3)

OGDEN, UTAH

41°07'N - 111°58'W

HILL AFB (KHIF)

Amdt 5 12OCT17

TACAN RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

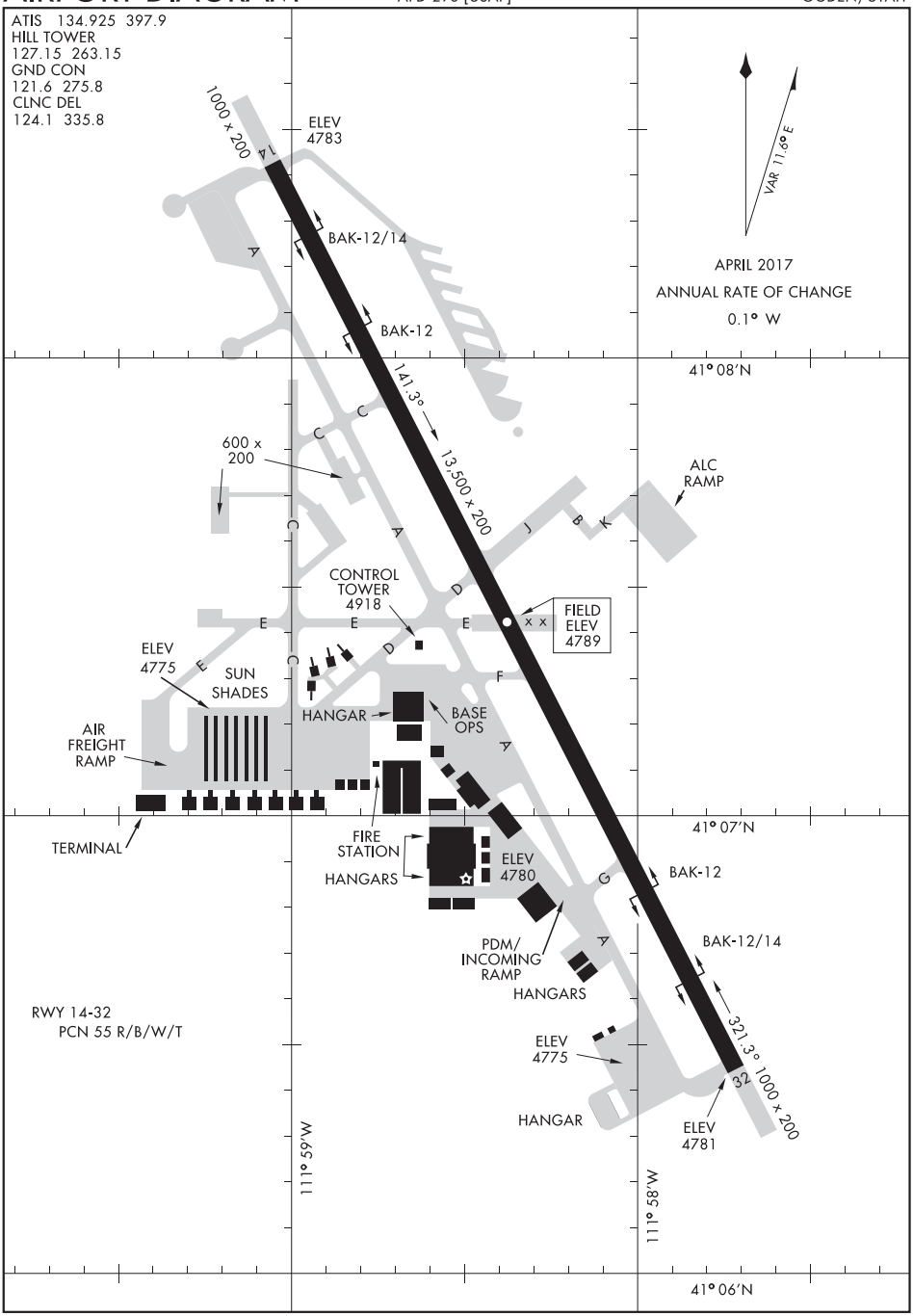
17117

AIRPORT DIAGRAM

HILL AFB (KHIF)

AFD-296 [USAF]

OGDEN, UTAH



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

OGDEN, UTAH

HILL AFB (KHIF)

DEVLN 1 DP (DEVLN1 • DEVLN)

SHL-296 [USAF]

OGDEN, UTAH

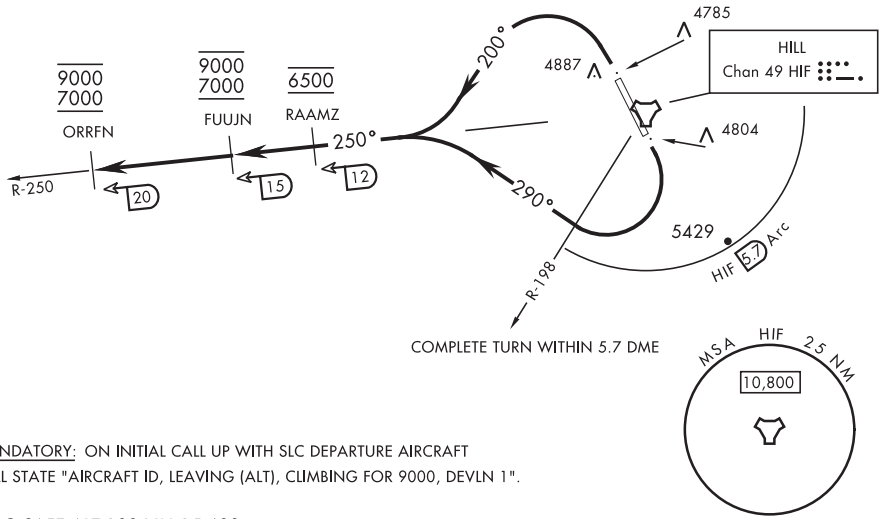
ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65

Rwy	Knots	60	120	180	240	300	360
14	V/V(fpm)	2095	4190	6285	8380	10475	12570
32	V/V(fpm)	4610	9220	13830	18440	23050	27660

ATC Climb Rate to 5200

FOR STEREO FLIGHT
PLAN USE ONLY

AIRSPEED IN EXCESS OF 350 KIAS NOT
AUTHORIZED UNTIL ESTABLISHED:
RWY 14 HEADING 290°
RWY 32 HEADING 200°



MANDATORY: ON INITIAL CALL UP WITH SLC DEPARTURE AIRCRAFT
WILL STATE "AIRCRAFT ID, LEAVING (ALT), CLIMBING FOR 9000, DEVLN 1".

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 5.7 DME until passing the HIF R-198 and established on a heading greater than 256°, intercept HIF R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 9000 as depicted.

TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF TACAN R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 9000 as depicted.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

12348

FALCN 1 DP (FALCN1 • FALCN)

SHL-296 [USAF]

HILL AFB (KHIF)
OGDEN, UTAH

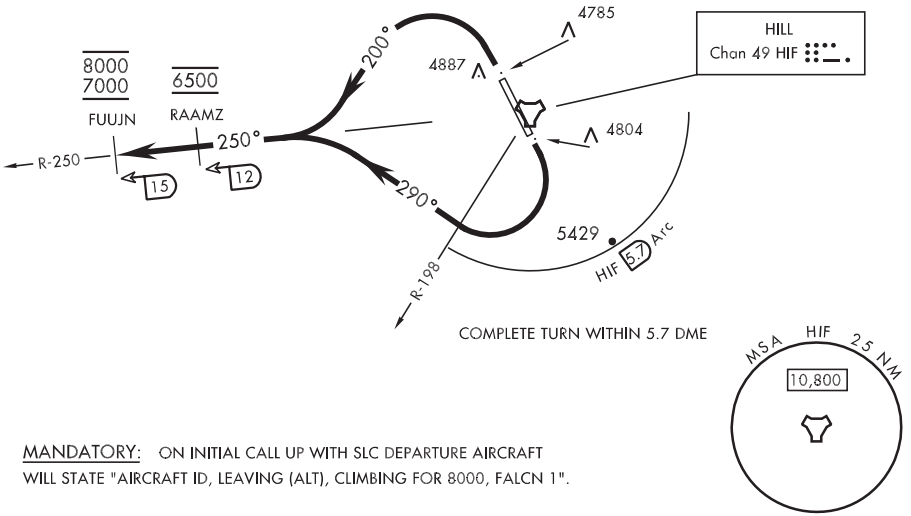
Rwy	Knots	60	120	180	240	300	360
14	V/V(fpm)	2095	4190	6285	8380	10475	12570
32	V/V(fpm)	4610	9220	13830	18440	23050	27660

ATC Climb Rate to 5200

ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65

FOR STEREO FLIGHT
PLAN USE ONLY

AIRSPEED IN EXCESS OF 350 KIAS NOT
AUTHORIZED UNTIL ESTABLISHED:
RWY 14 HEADING 290°
RWY 32 HEADING 200°



MANDATORY: ON INITIAL CALL UP WITH SLC DEPARTURE AIRCRAFT WILL STATE "AIRCRAFT ID, LEAVING (ALT), CLIMBING FOR 8000, FALCN 1".

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 5.7 DME until passing the HIF R-198 and established on a heading greater than 256°, intercept HIF R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 8000.

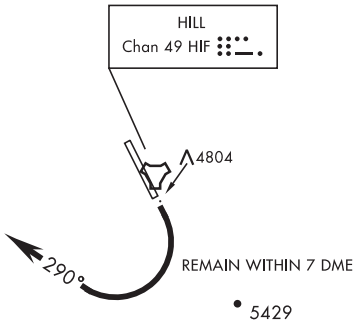
TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF TACAN R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 8000.

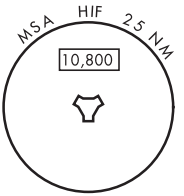
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

FREMONT 1 (VECTOR) DP (FRMNT1 • FRMNT)

SHL-296 [USAF]

ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65





LOST COMMUNICATIONS: IF RADIO CONTACT HAS NOT BEEN ESTABLISHED BY HIF R-225 OR 12 DME, SQUAWK 7600 AND IMMEDIATELY CLIMB TO 7500 MSL.

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 7 DME, maintain 6500.

TACAN OUT: Turn right heading 290°, maintain 6500.

ILONN 1 DP (ILONN1 • ILONN)

SHL-296 [USAF]

OGDEN, UTAH

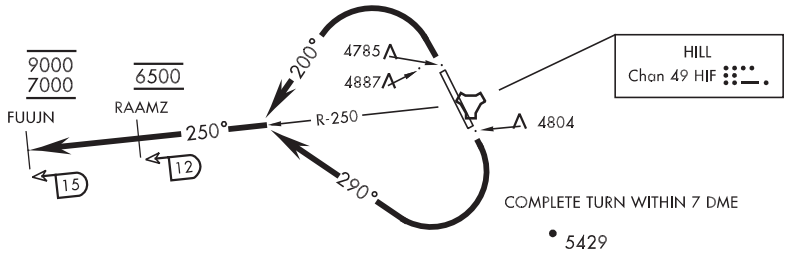
ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65

Rwy	Knots	60	120	180	240	300	360
14 ⓐ	V/V(fpm)	580	1160	1740	2320	2900	3480
14 ⓑ	V/V(fpm)	260	520	780	1040	1300	1560
32 ⓒ	V/V(fpm)	660	1320	1980	2640	3300	3960

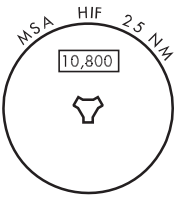
ATC Climb Rate

ⓐ To 5200
ⓑ From 5200 to 6300
ⓒ To 5700

FOR STEREO FLIGHT PLAN USE ONLY



AIRSPEED IN EXCESS OF 350 KIAS NOT AUTHORIZED UNTIL ESTABLISHED:
RWY 14 HEADING 290°
RWY 32 HEADING 200°



EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Turn right heading 290°, intercept HIF TACAN R-250 outbound prior to 12 DME (complete turn within 7 DME), cross RAAMZ at 6500, maintain block 7000 through 9000.

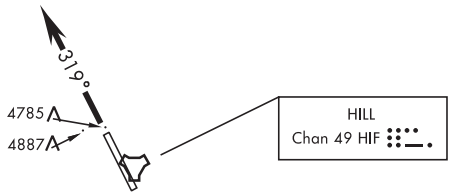
TAKE-OFF RWY 32: Turn left heading 200°, intercept HIF TACAN R-250 outbound prior to 12 DME, cross RAAMZ at 6500, maintain block 7000 through 9000.

WILLARD 1 (VECTOR) DP (WLLRD1 • WLLRD)

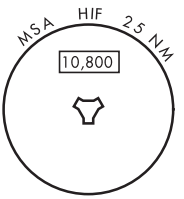
SHL-296 [USAF]

OGDEN, UTAH

ATIS 134.925 397.9
CLNC DEL
124.1 335.8
GND CON
121.6 275.8
HILL TOWER
127.15 263.15
SALT LAKE CITY
DEP CON
121.1 319.25
CLOVER CON
134.1 285.65



5429



EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 32: Track heading 319°, maintain 7000.

WILLARD 1 (VECTOR) DP (WLLRD1 • WLLRD)
OGDEN, UTAH
HILL AFB (KHIF)

SW-4, 05 NOV 2020 to 31 DEC 2020

HUNTINGTON, UTAH | AL-6693 (FAA) | 20310

RNAV (GPS)-C
HUNTINGTON MUNI (69V)

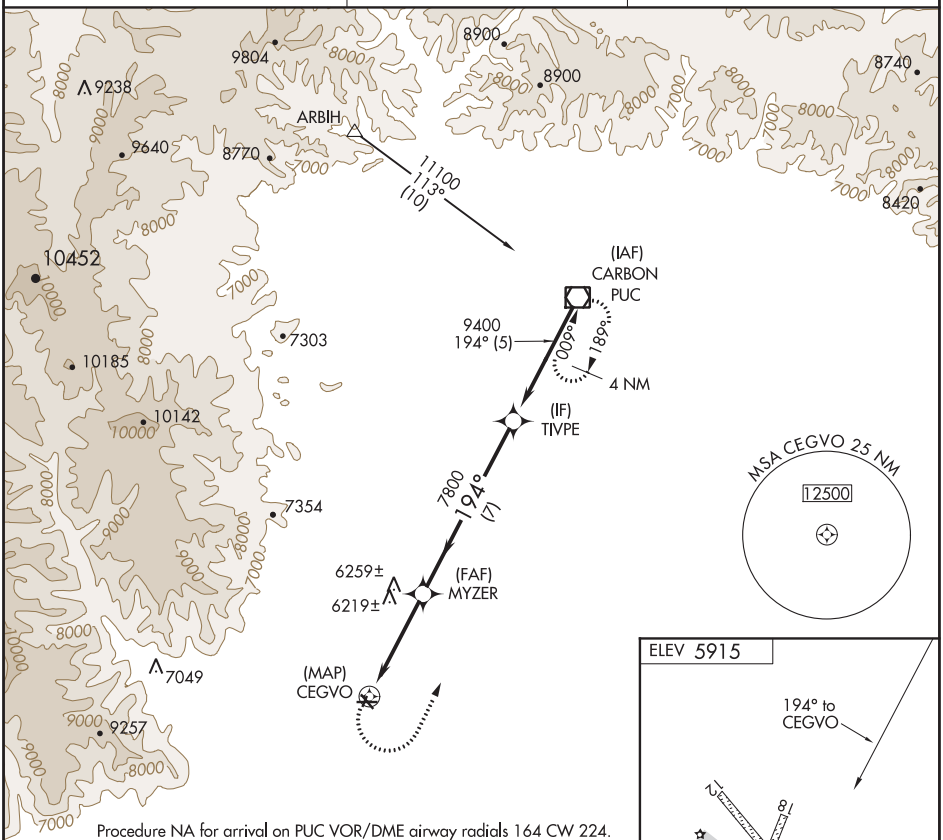
APP CRS	Rwy ldg	N/A
194°	TDZE	N/A
	Apt Elev	5915

NA

Rwy 8, 12, 26, 30 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. Procedure NA at night. Use Price altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climbing left turn to 10000 direct PUC VOR/DME and hold.

PUC ASOS	SALT LAKE CENTER	UNICOM
135.425	133.9 370.85	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	6520-1 605 (700-1)		6600-2 685 (700-2)	NA

MIRL Rwy 8-26 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

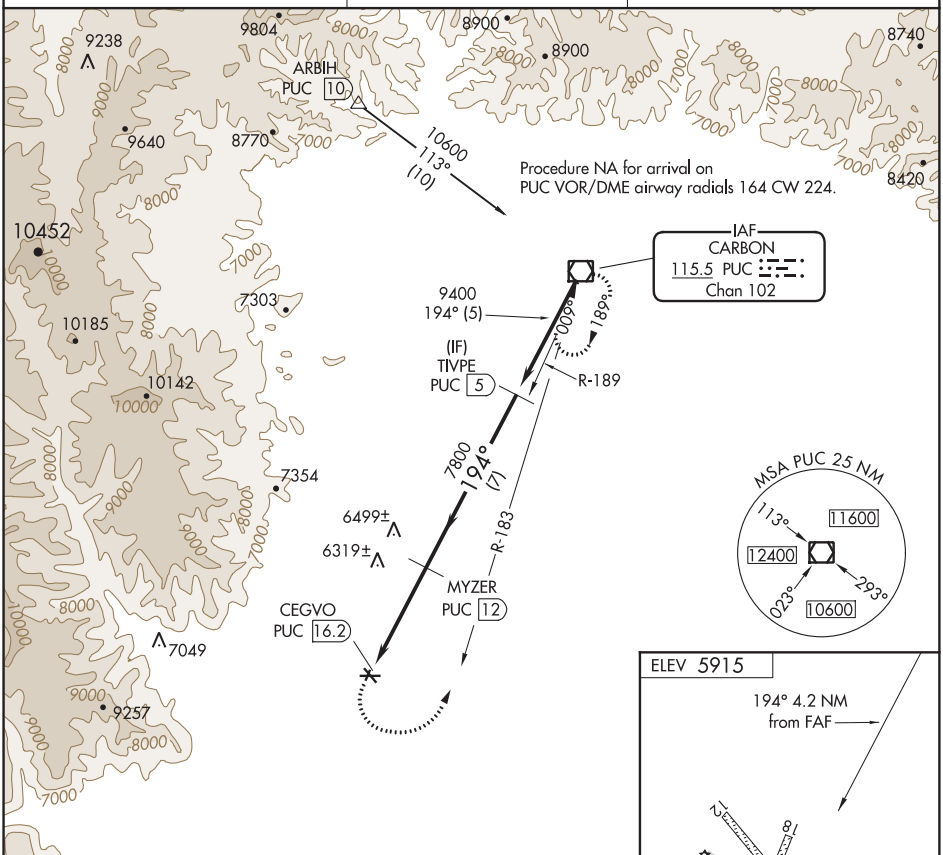
VOR/DME PUC 115.5 Chan 102	APP CRS 194°	Rwy ldg N/A TDZE N/A Apt Elev 5915

VOR-B
HUNTINGTON MUNI (69V)

Rwy 8, 12, 26, 30 helicopter visibility reduction below 1 SM NA. DME required. Procedure NA at night. Use Price altimeter setting; when not received, procedure NA.

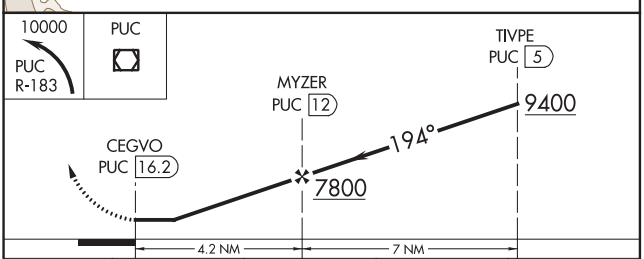
MISSED APPROACH: Climbing left turn to 10000 on PUC VOR/DME R-183 to PUC VOR/DME and hold.

PUC ASOS	SALT LAKE CENTER	UNICOM
135.425	133.9 370.85	122.8 (CTAF) L

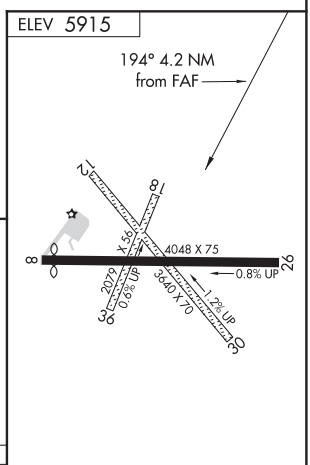


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
CIRCLING	6620-1 705 (800-1)		6620-2 705 (800-2)	NA



KANAB, UTAH | AL-9072 (FAA) | 20254

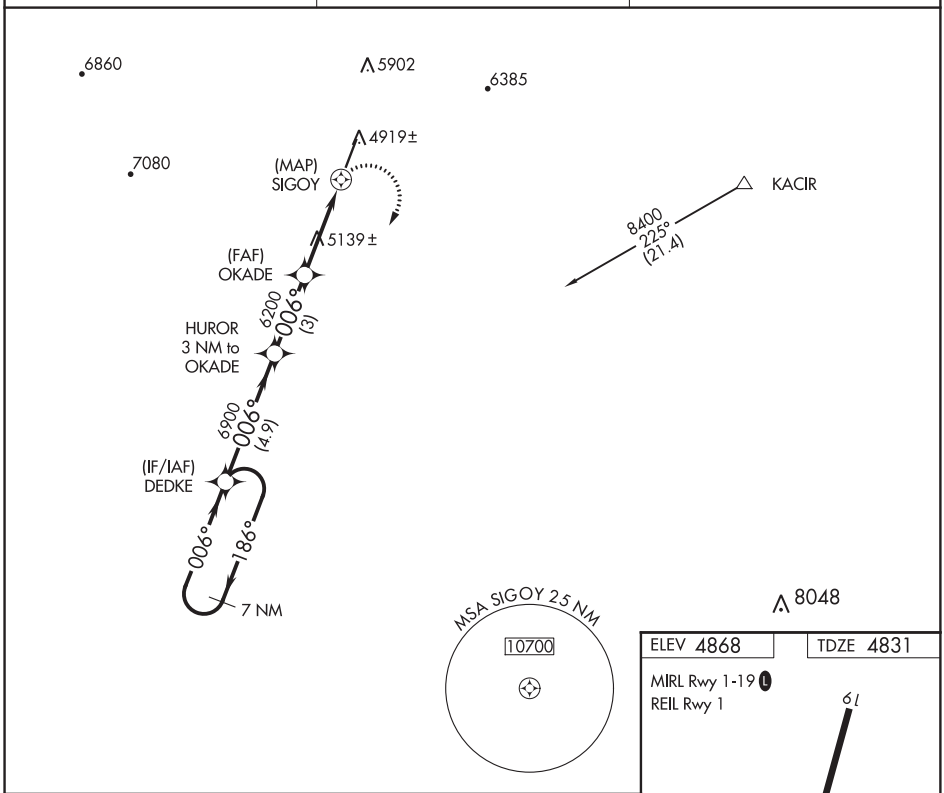
APP CRS	Rwy ldg	6200
006°	TDZE	4831
	Apt Elev	4868

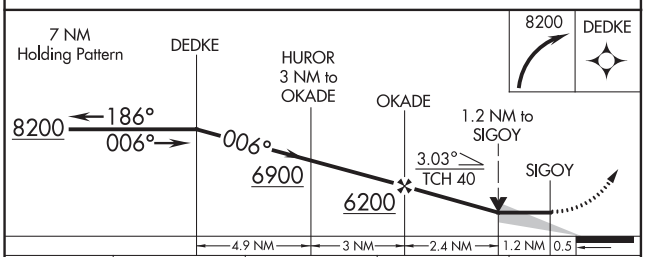
RNAV (GPS) RWY 1
KANAB MUNI (KNB)

DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 8200 direct DEDKE and hold.

AWOS-3	LOS ANGELES CENTER	UNICOM
133.175	124.2 343.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	5400-1 569 (600-1)		5400-1½ 569 (600-1½)	NA
CIRCLING	5600-1 732 (800-1)	5960-1½ 1092 (1100-1½)	6200-3 1332 (1400-3)	NA

ELEV 4868 | TDZE 4831

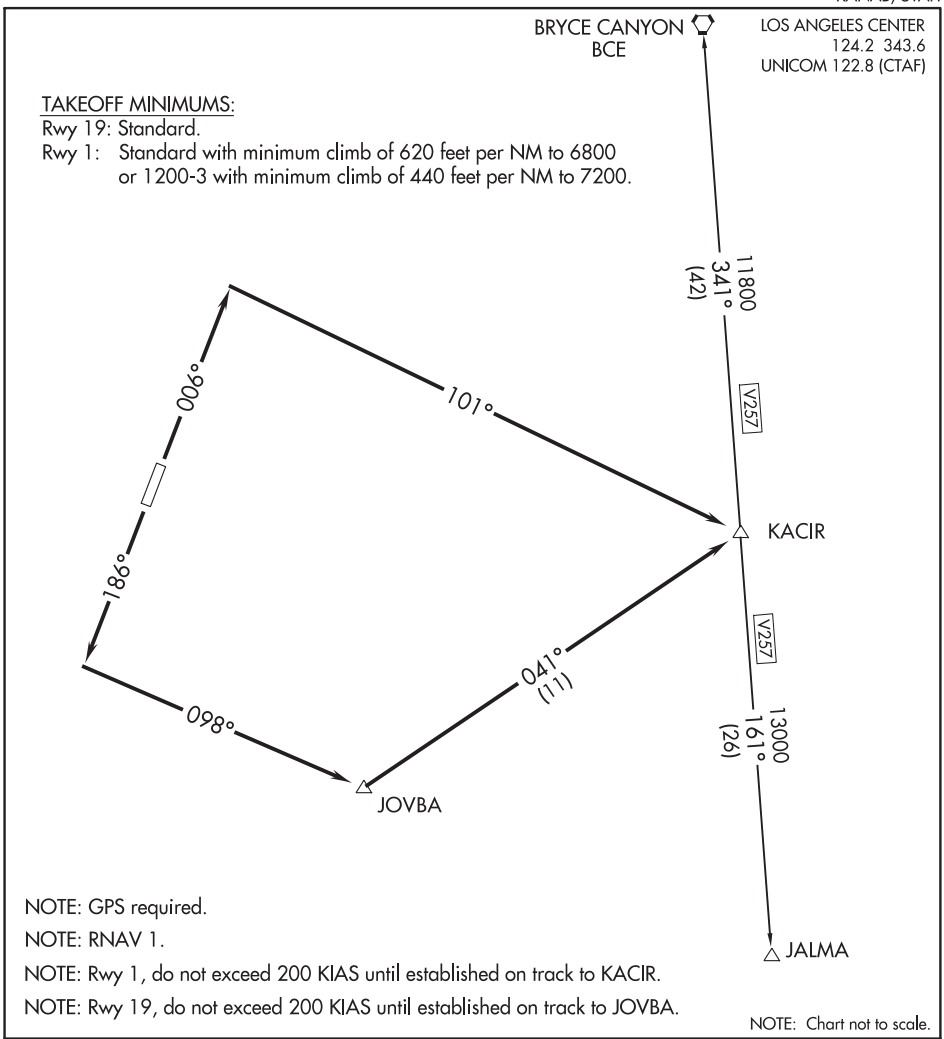
MIRL Rwy 1-19 L
REIL Rwy 1

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

KACIR TWO DEPARTURE (RNAV)

AL-9072 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 006° to intercept course 101° to KACIR, thence. . . .

TAKEOFF RWY 19: Climb heading 186° to intercept course 098° to JOVBA, then on track 041° to KACIR, thence. . . .

. . . . (transition).

BRYCE CANYON TRANSITION (KACIR2.BCE)

JALMA TRANSITION (KACIR2.JALMA)

KINGMAN, ARIZONA

AL-215 (FAA)

20030

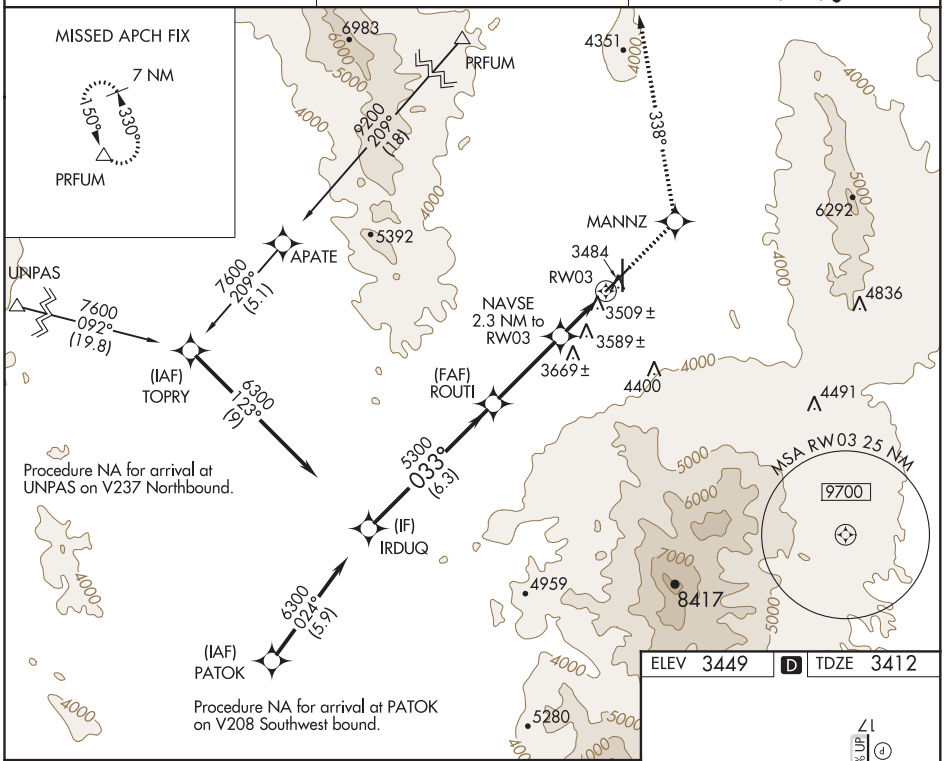
RNAV (GPS) RWY 3
KINGMAN (IGM)

WAAS CH 86312 W03A	APP CRS 033°	Rwy ldg 6827 TDZE 3412 Apt Elev 3449

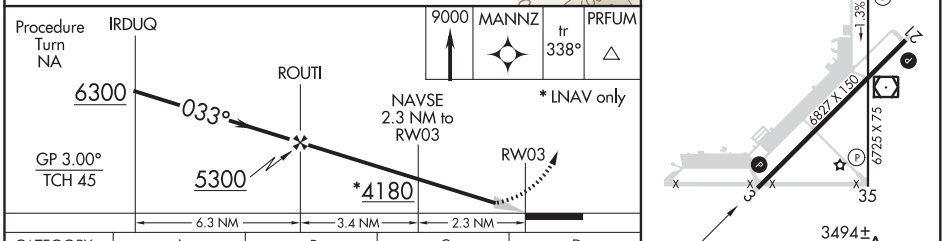
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 42°C (107°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct MANNZ and via track 338° to PRFUM and hold, continue climb-in-hold to 9000.

ASOS	LOS ANGELES CENTER	UNICOM
119.275	124.85 319.2	122.8 (CTAF) L



ELEV 3449	D	TDZE 3412



CATEGORY	A	B	C	D
LPV DA	3713-1		301 (400-1)	
LNAV/VNAV DA	3952-2		540 (600-2)	
LNAV MDA	3840-1	428 (500-1)	3840-1¼ 428 (500-1¼)	3840-1½ 428 (500-1½)
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2¼ 691 (700-2¼)

REIL Rwys 3 and 21 L
MIRL Rwys 3-21 and 17-35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

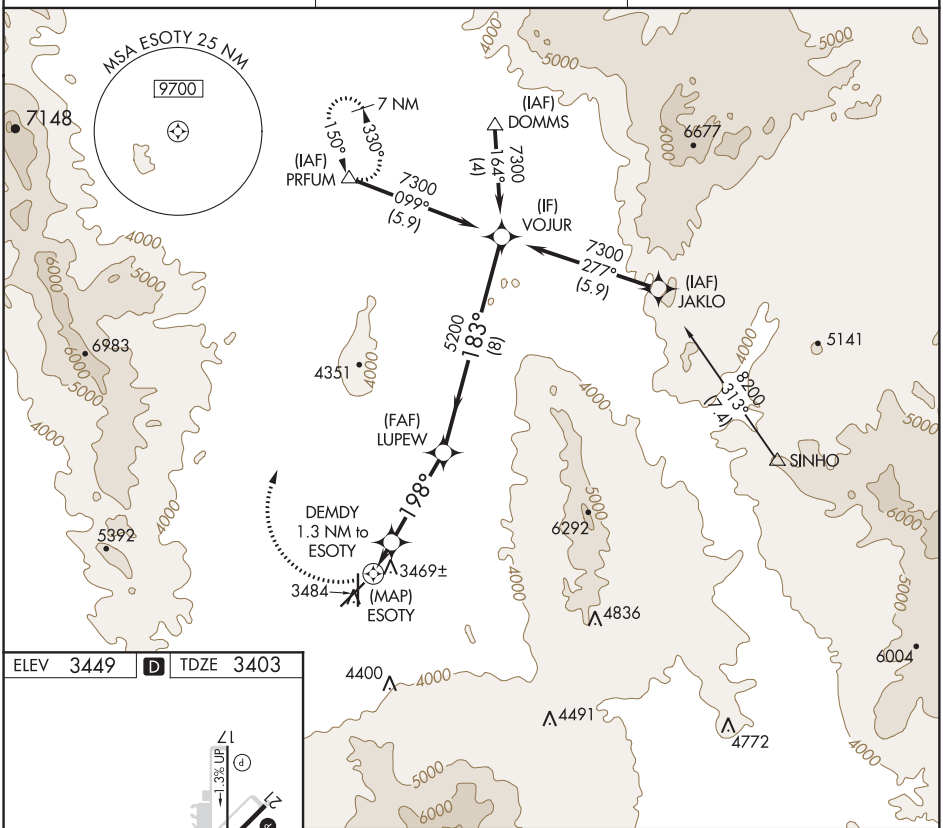
APP CRS	Rwy ldg	6827
198°	TDZE	3403
	Apt Elev	3449

RNAV (GPS) Y RWY 21
KINGMAN (IGM)

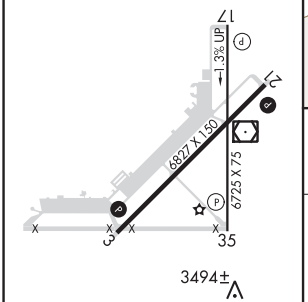
DME/DME RNP-0.3 NA.

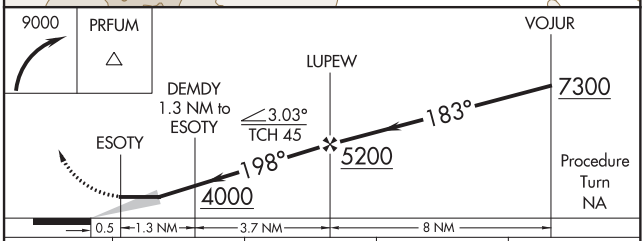
MISSED APPROACH: Climbing right turn to 9000 direct PRFUM and hold, continue climb-in-hold to 9000.

ASOS	LOS ANGELES CENTER	UNICOM
119.275	124.85 319.2	122.8 (CTAF) L



ELEV 3449 D TDZE 3403





CATEGORY	A	B	C	D
LNAV MDA	3820-1 417 (500-1)		3820-1¼ 417 (500-1¼)	
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2¼ 691 (700-2¼)

REIL Rwys 3 and 21 L
MIRL Rwys 3-21 and 17-35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

KINGMAN, ARIZONA | AL-215 (FAA) | 20030

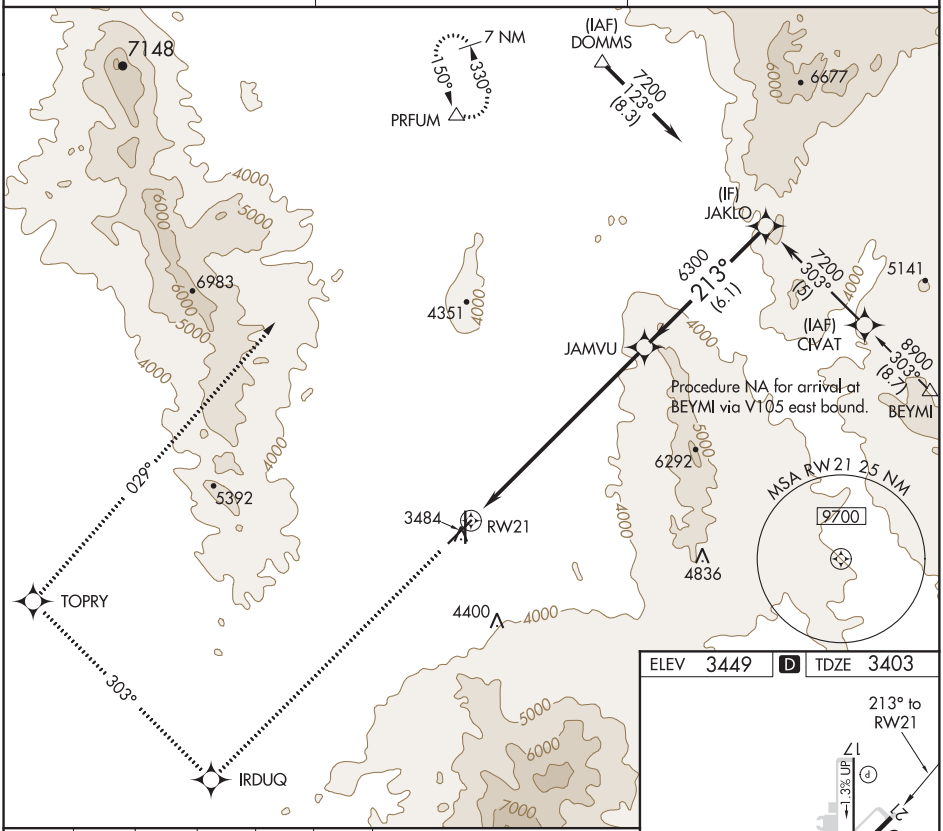
RNAV (GPS) Z RWY 21
KINGMAN (IGM)

WAAS CH 70612 W21A	APP CRS 213°	Rwy ldg 6827 TDZE 3403 Apt Elev 3449

T NA — DME/DME RNP-0.3 NA.

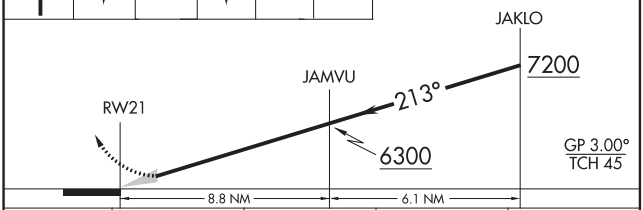
MISSED APPROACH: Climb to 9000 direct IRDUQ and via track 303° to TOPRY and via track 029° to PRFUM and hold.

ASOS	LOS ANGELES CENTER	UNICOM
119.275	124.85 319.2	122.8 (CTAF) L



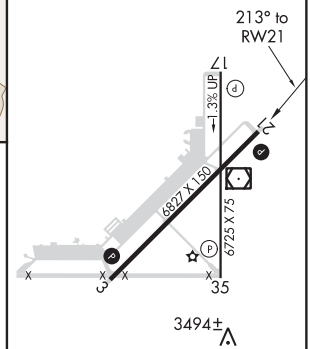
9000	IRDUQ	tr 303°	TOPRY	tr 029°	PRFUM

Procedure Turn NA



CATEGORY	A	B	C	D
LPV DA	3653-1 250 (300-1)			

ELEV 3449 D TDZE 3403



REIL Rwys 3 and 21 L
MIRL Rwys 3-21 and 17-35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

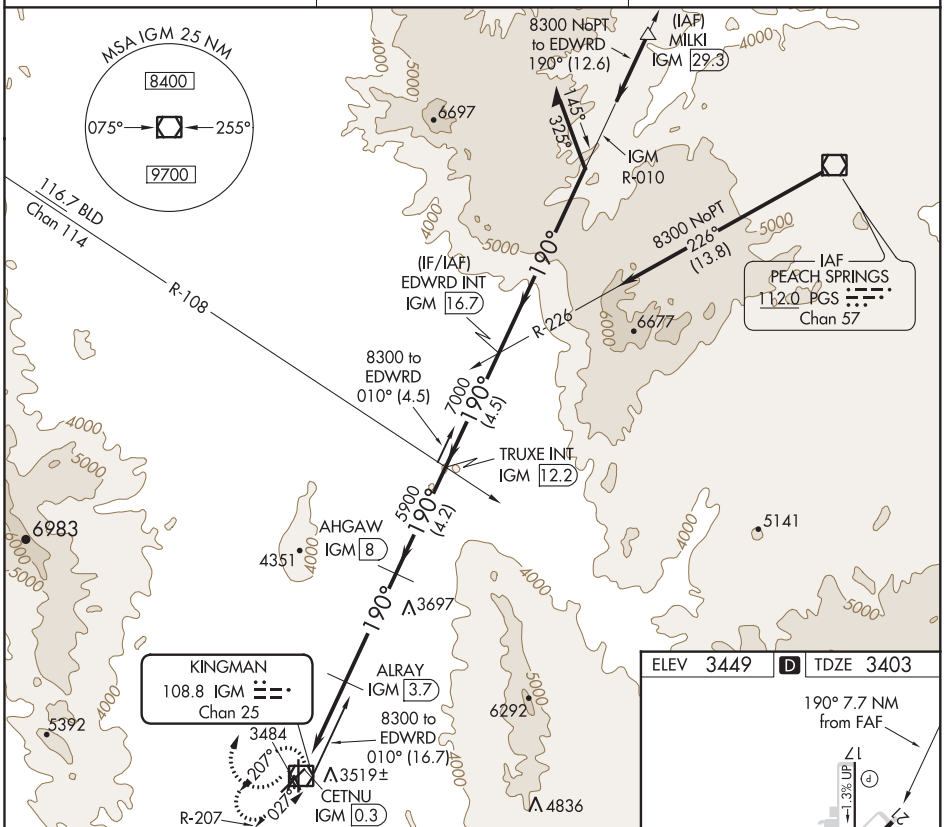
SW-4, 05 NOV 2020 to 31 DEC 2020

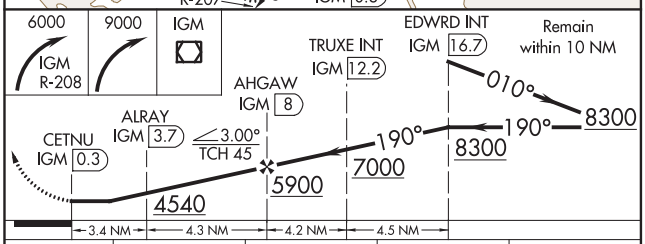
VOR/DME IGM 108.8 Chan 25	APP CRS 190°	Rwy ldg 6827 TDZE 3403 Apt Elev 3449

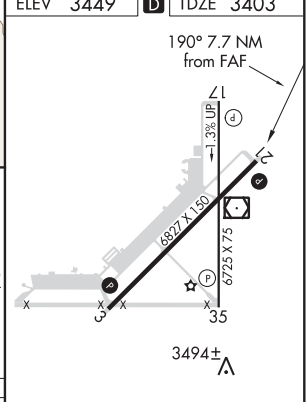
VOR/DME RWY 21
KINGMAN (IGM)

MISSED APPROACH: Climbing right turn to 6000 via IGM VOR/DME R-208 then climbing right turn to 9000 direct IGM VOR/DME and hold.

ASOS	LOS ANGELES CENTER	UNICOM
119.275	124.85 319.2	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-21	3880-1 477 (500-1)		3880-1¼ 477 (500-1¼)	3880-1½ 477 (500-1½)
CIRCLING	3980-1 531 (600-1)	4020-1 571 (600-1)	4020-1½ 571 (600-1½)	4140-2¼ 691 (700-2¼)

MIRL Rwys 3-21 and 17-35 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

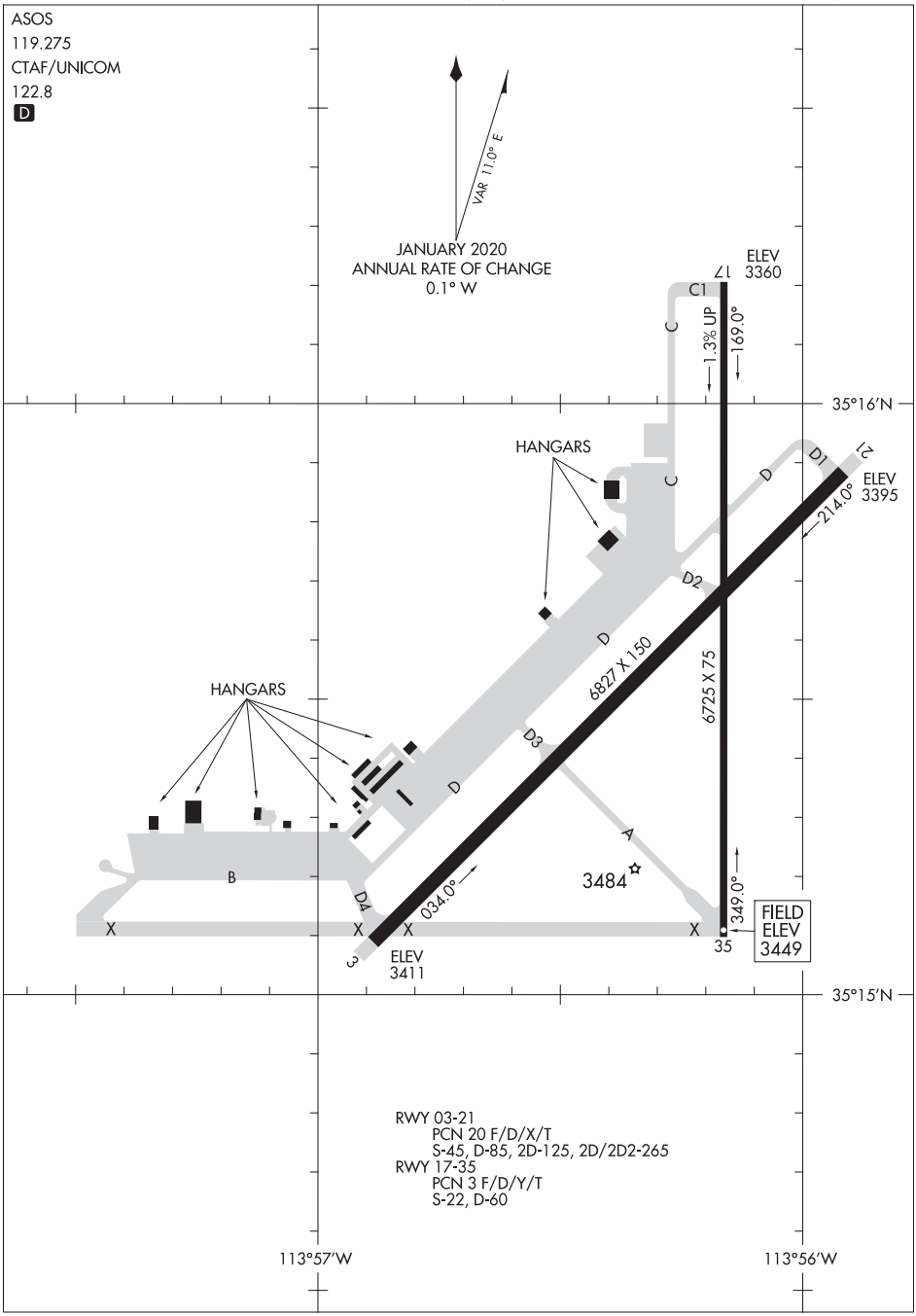
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-215 (FAA)

KINGMAN (IGM)
KINGMAN, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086

KINGMAN, ARIZONA
KINGMAN (IGM)

YUMA PROVING GROUND, ARIZONA

RNAV (GPS) RWY 6

APCH CRS	Rwy ldg	6000
063°	TDZE	387
	Arpt Elev	433

AL-6341 [USA]

LAGUNA AAF (KLGF)

DME/DME RNP-0.3 NA

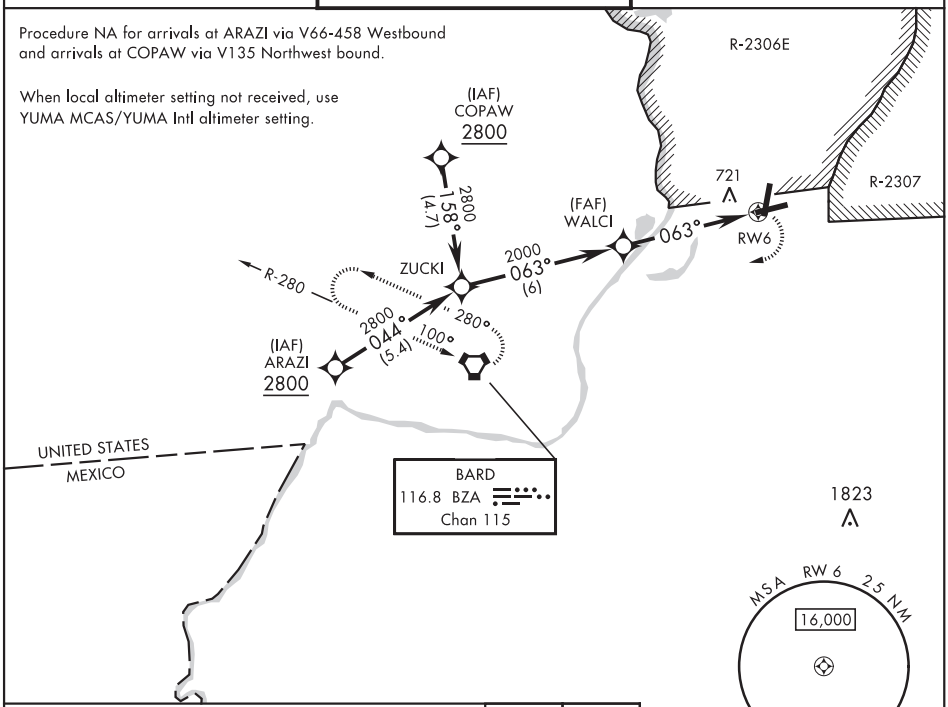
NA Procedure NA when airfield closed.

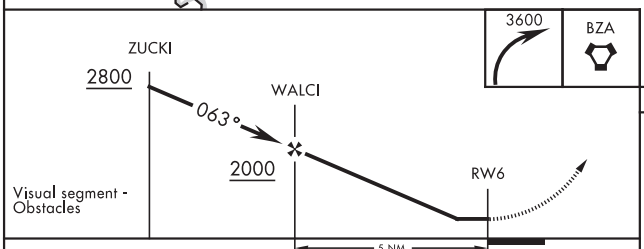
MISSED APPROACH: Climbing right turn to 3600 direct BZA VORTAC and hold.

YUMA APP CON	LAGUNA TOWER ★	GND CON
124.7 374.8	126.2 (CTAF) 242.175	121.8 L 229.4

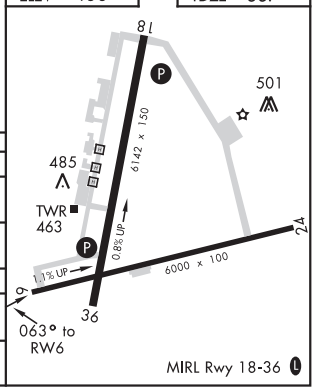
Procedure NA for arrivals at ARAZI via V66-458 Westbound and arrivals at COPAW via V135 Northwest bound.

When local altimeter setting not received, use YUMA MCAS/YUMA Intl altimeter setting.





ELEV 433 TDZE 387



CATEGORY	A	B	C	D
LNAV MDA	1020-1 633 (600-1)		1020-1¾ 633 (600-1¾)	1020-2 633 (600-2)
CIRCLING	1080-1 647 (700-1)		1080-1¾ 647 (700-1¾)	1080-2 647 (700-2)
YUMA MCAS/YUMA Intl ALTIMETER SETTING				
LNAV MDA	1100-1 713 (700-1)		1100-2 713 (700-2)	1100-2¼ 713 (700-2¼)
CIRCLING	1160-1 727 (800-1)		1160-2 727 (800-2)	1160-2¼ 727 (800-2¼)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA PROVING GROUND, ARIZONA

RNAV (GPS) RWY 18

APCH CRS	Rwy ldg	6142
163°	TDZE	410
	Arpt Elev	433

AL-6341 [USA]

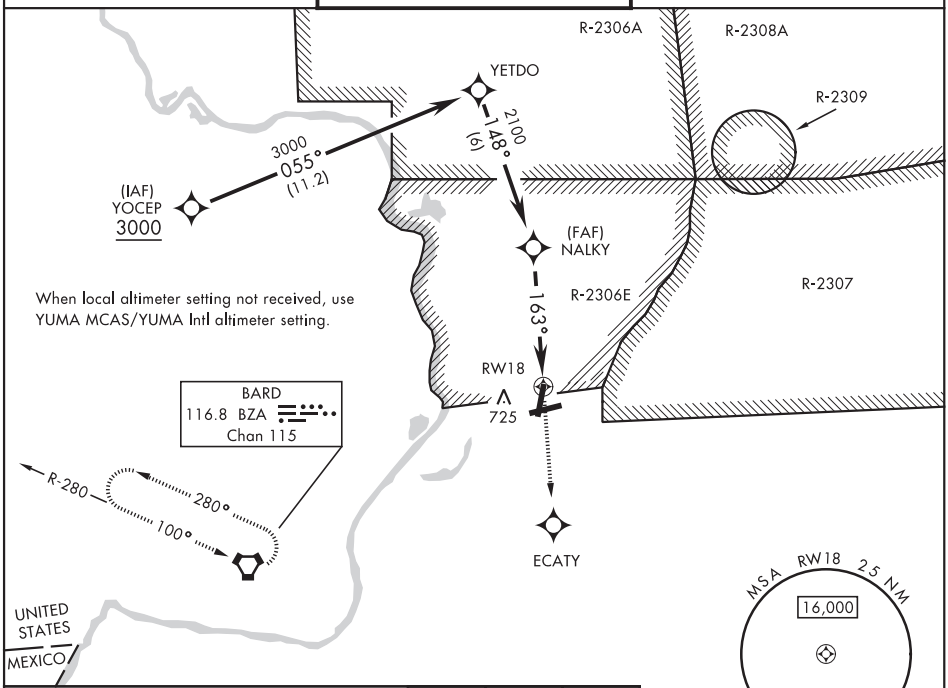
LAGUNA AAF (KLGF)

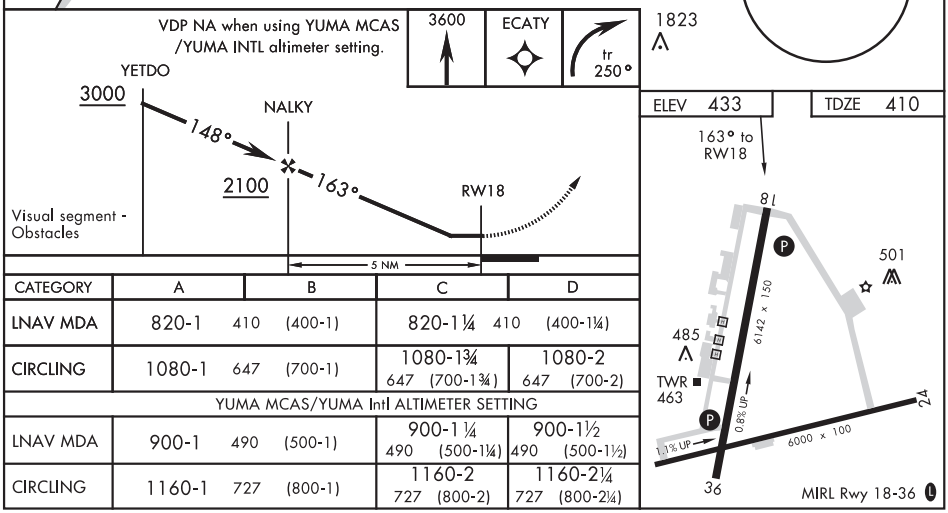
DME/DME RNP-0.3 NA

NA Procedure NA when airfield closed.

MISSED APPROACH: Climb to 3600 direct ECATY, via 250° track to BZA VORTAC and hold, continue climb in hold to 3600.

YUMA APP CON	LAGUNA TOWER ★	GND CON
124.7 374.8	126.2 (CTAF) 242.175	121.8 L 229.4





CATEGORY	A	B	C	D
LNAV MDA	820-1 410 (400-1)		820-1¼ 410 (400-1¼)	
CIRCLING	1080-1 647 (700-1)		1080-1¾ 647 (700-1¾)	1080-2 647 (700-2)
YUMA MCAS/YUMA Intl ALTIMETER SETTING				
LNAV MDA	900-1 490 (500-1)		900-1¼ 490 (500-1¼)	900-1½ 490 (500-1½)
CIRCLING	1160-1 727 (800-1)		1160-2 727 (800-2)	1160-2¼ 727 (800-2¼)

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA PROVING GROUND, ARIZONA

VOR RWY 6

VORTAC BZA	APCH CRS	Rwy ldg	6000
116.8	048°	TDZE	387
Chan 115		Arpt Elev	433

AL-6341 [USA]

LAGUNA AAF (KLGF)

T * Straight-in minima not authorized at night.

A NA

MISSED APPROACH: Climbing right turn to 3200 direct BZA VORTAC and hold.

YUMA APP CON	LAGUNA TOWER ★	GND CON
124.7 374.8	126.2 (CTAF) 242.175	121.8 L 229.4

Procedure not authorized when airfield closed.

Obtain local altimeter setting on CTAF.
When not received, use Yuma MCAS Intl altimeter setting.

1930

R-2306E

1523

R-048

R-2307

IAF
BARD
116.8 BZA
Chan 115

725

(IAF)
GROTE
BZA
10

258°
200K
078°

048°

CEKDU
BZA
5.6

1080

3200 NoPT
075°
(10)

R-255

UNITED STATES
MEXICO

1823

MSA BZA 25 NM
180°
16,000
3700
270°
4400
010°

VORTAC

CEKDU
R-048
5.6

3200
078°
258°
048°
†1320
11.6

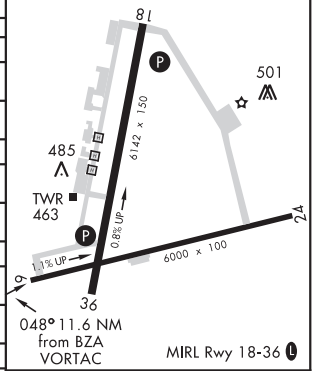
3200

BZA

† 1400 when using Yuma MCAS Intl altimeter setting

11.6 NM

ELEV 433	TDZE 387



MIRL Rwy 18-36 L

CATEGORY	A	B	C	D
S-6 *	1320-1¼ 933 (900-1 ¼)		1320-2¾ 933 (900-2¾)	1320-3 933 (900-3)
CIRCLING	1320-1¼ 887 (900-1¼)		1320-2¾ 887 (900-2¾)	1320-3 887 (900-3)
DME MINIMA				
S-6*	1040-1 653 (700-1)		1040-1¾ 653 (700-1¾)	1040-2 653 (700-2)
CIRCLING	1080-1 647 (700-1)		1080-1¾ 647 (700-1¾)	1080-2 647 (700-2)
YUMA MCAS/YUMA Intl ALTIMETER SETTING				
S-6 *	1400-1¼ 1013 (1000-1¼)	1400-1½ 1013 (1000-1½)	1400-3 1013 (1000-3)	
CIRCLING	1400-1¼ 967 (1000-1¼)	1400-1½ 967 (1000-1½)	1400-3 967 (1000-3)	
YUMA MCAS/YUMA Intl ALTIMETER SETTING DME MINIMA				
S-6 *	1120-1 733 (700-1)	1120-1¼ 733 (700-1¼)	1120-2¼ 733 (700-2¼)	1120-2½ 733 (700-2½)
CIRCLING	1160-1 727 (800-1)		1160-2 727 (800-2)	1160-2¼ 727 (800-2¼)

FAF to MAP 11.6 NM					
Knots	60	90	120	150	180
Min:Sec	11:36	7:44	5:48	4:38	3:52

SW-4, 05 NOV 2020 to 31 DEC 2020

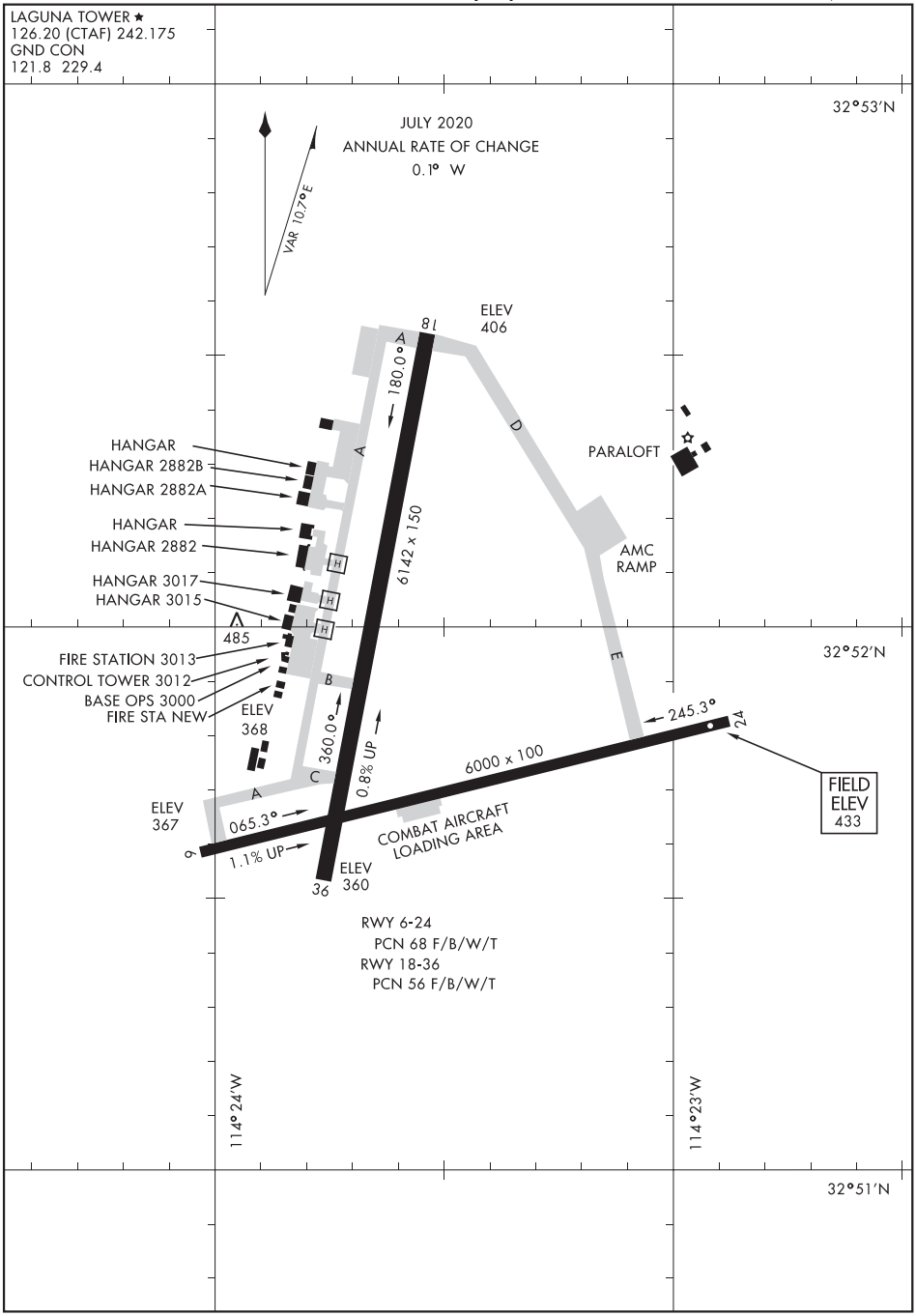
SW-4, 05 NOV 2020 to 31 DEC 2020

20198

AIRPORT DIAGRAM

AFD-6341 [USA]

LAGUNA AAF (KLGF)
YUMA PROVING GROUND, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM

YUMA PROVING GROUND, ARIZONA
LAGUNA AAF (KLGF)

WAAS CH 53330 W14A	APP CRS 134°	Rwy ldg 8000 TDZE 759 Apt Elev 783

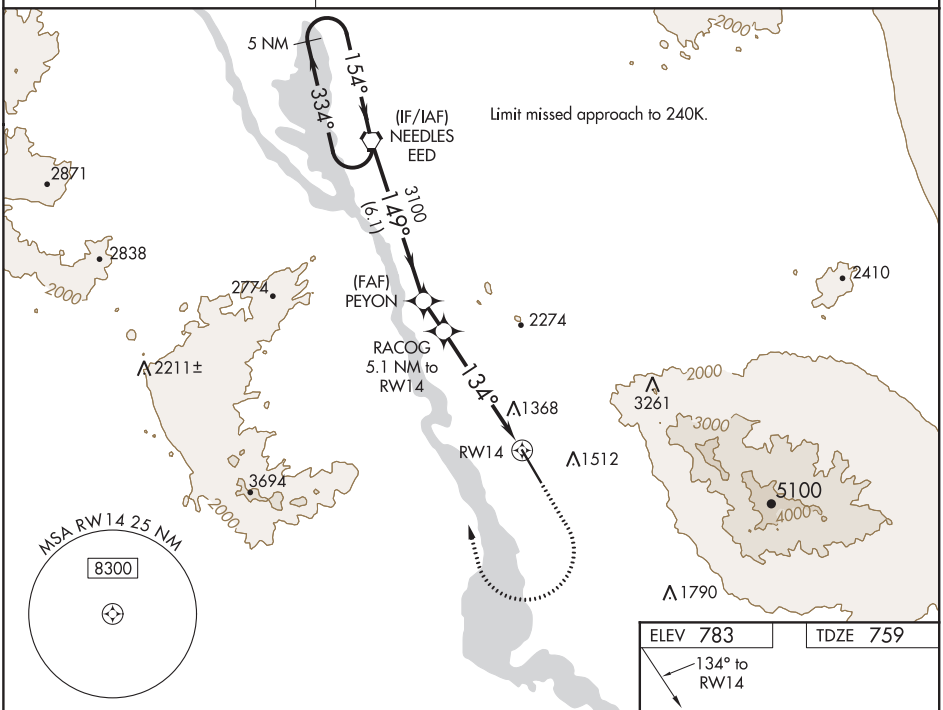
RNAV (GPS) RWY 14
LAKE HAVASU CITY (HII)

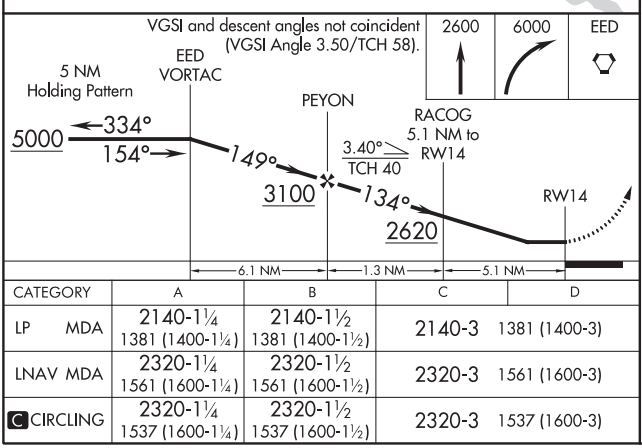
T
A NA

When local altimeter setting not received, use Needles altimeter setting and increase all MDA 80 feet. Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When VGSI inop, procedure NA at night.

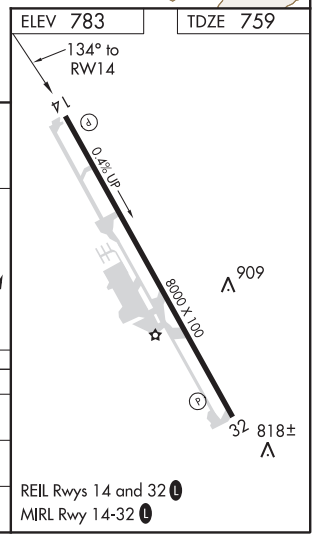
MISSED APPROACH: Climb to 2600 then climbing right turn to 6000 direct EED VORTAC and hold, continue climb-in-hold to 6000.

AWOS-3	LOS ANGELES CENTER	UNICOM
119.025	134.65 314.2	122.7 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	2140-1¼ 1381 (1400-1¼)	2140-1½ 1381 (1400-1½)	2140-3	1381 (1400-3)
LNAV MDA	2320-1¼ 1561 (1600-1¼)	2320-1½ 1561 (1600-1½)	2320-3	1561 (1600-3)
C CIRCLING	2320-1¼ 1537 (1600-1¼)	2320-1½ 1537 (1600-1½)	2320-3	1537 (1600-3)



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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 49110 W32A	APP CRS 317°	Rwy ldg 8000 TDZE 783 Apt Elev 783

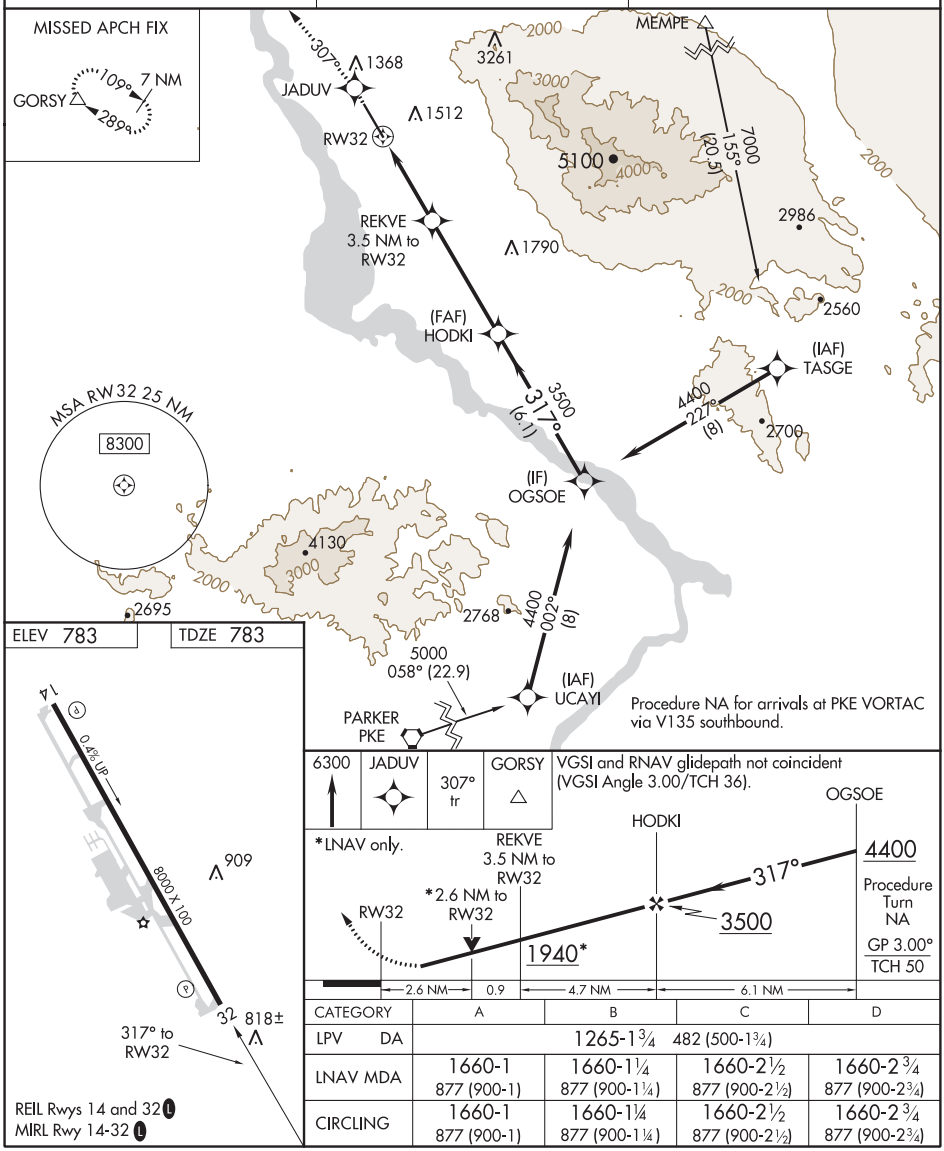
RNAV (GPS) RWY 32
LAKE HAVASU CITY (HII)

T NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Needles altimeter setting and increase all DA/MDA 80 feet and all visibilities ½ mile. VDP NA when using Needles altimeter setting. Circling NA northeast of Rwy 14-32.

MISSED APPROACH: Climb to 6300 direct JADUV and via 307° track to GORSY and hold, continue climb-in-hold to 6300.

AWOS-3	LOS ANGELES CENTER	UNICOM
119.025	134.65 314.2	122.7 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1265-1¾ 482 (500-1¾)			
LNAV MDA	1660-1 877 (900-1)	1660-1¼ 877 (900-1¼)	1660-2½ 877 (900-2½)	1660-2¾ 877 (900-2¾)
CIRCLING	1660-1 877 (900-1)	1660-1¼ 877 (900-1¼)	1660-2½ 877 (900-2½)	1660-2¾ 877 (900-2¾)

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC EED	APP CRS	Rwy ldg	N/A
115.2	139°	TDZE	N/A
Chan 99		Apt Elev	783

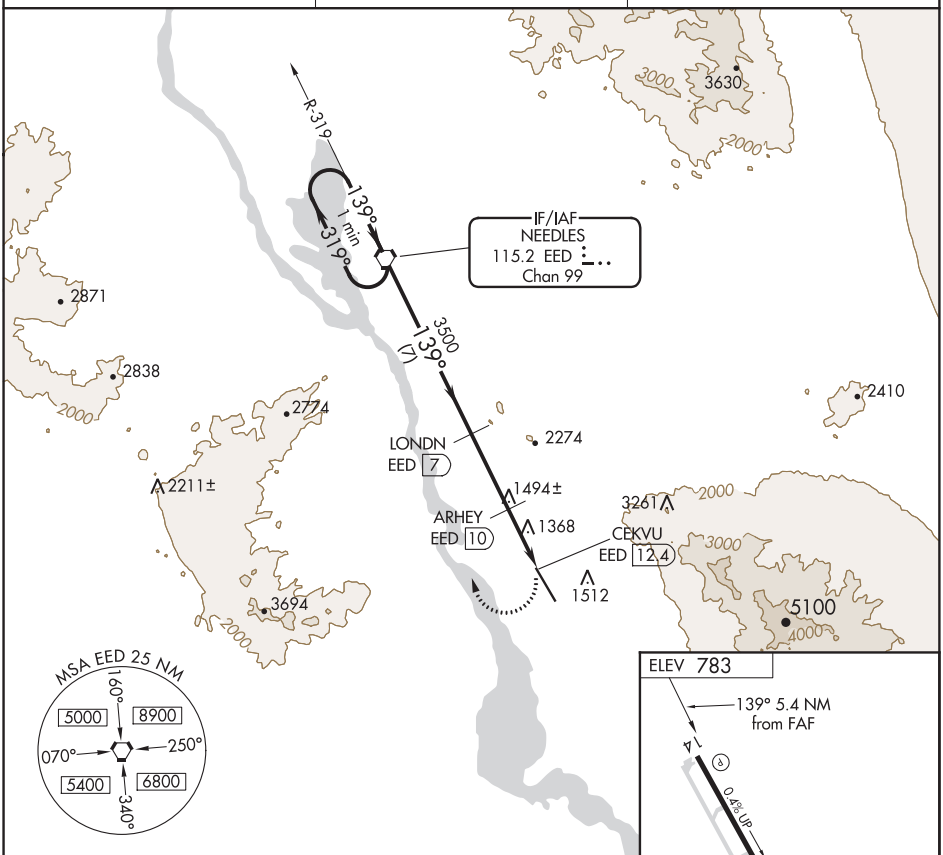
VOR/DME-A
LAKE HAVASU CITY (HII)

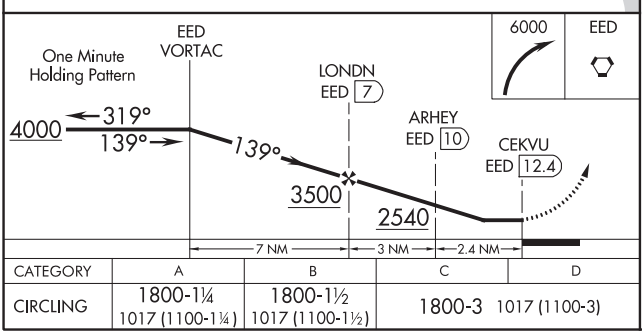
NA

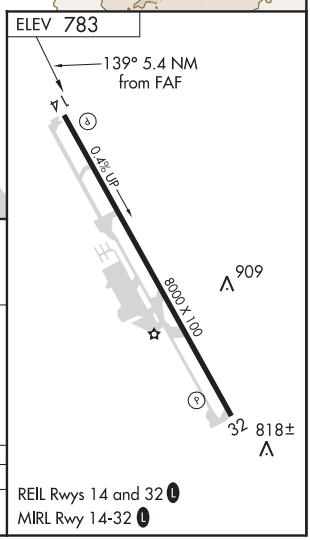
When local altimeter setting not received, use Needles altimeter setting and increase all MDA 80 feet. Circling NA northeast of Rwy 14-32.

MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold, continue climb-in-hold to 6000.

AWOS-3	LOS ANGELES CENTER	UNICOM
119.025	134.65 314.2	122.7 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	1800-1¼ 1017 (1100-1¼)	1800-1½ 1017 (1100-1½)	1800-3 1017 (1100-3)	

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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA | AL-6514 (FAA) | 20282

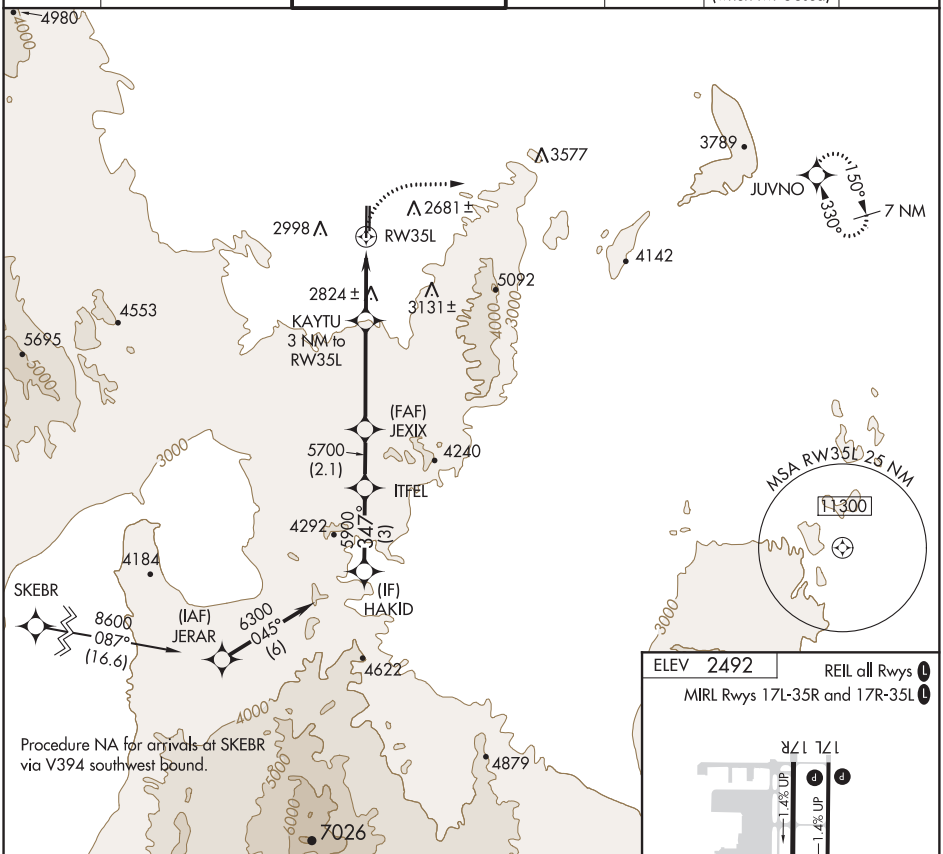
APP CRS	Rwy ldg	N/A
347°	TDZE	N/A
	Apt Elev	2492

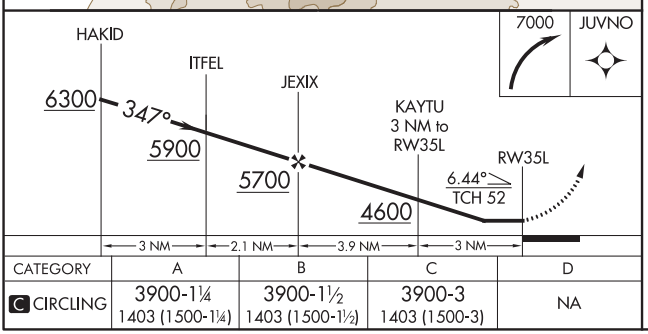
RNAV (GPS)-B
HENDERSON EXECUTIVE (HND)

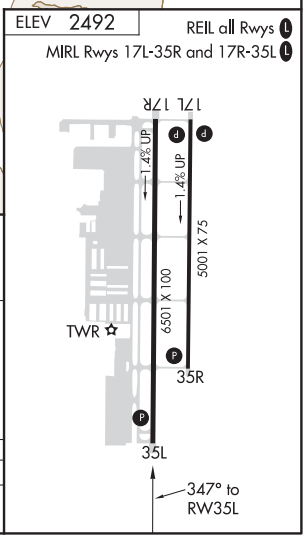
When local altimeter setting not received, use McCarran Intl altimeter setting and increase all MDAs 60 feet.
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing right turn to 7000 direct JUVNO and hold, continue climb-in-hold to 7000.

ATIS	LAS VEGAS APP CON	HENDERSON TOWER★	GND CON	CLNC DEL	CLNC DEL	UNICOM
120.775	118.4 307.25	125.1 (CTAF) L	127.8	135.35	125.9 (when twr closed)	122.95







CATEGORY	A	B	C	D
C CIRCLING	3900-1¼ 1403 (1500-1¼)	3900-1½ 1403 (1500-1½)	3900-3 1403 (1500-3)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

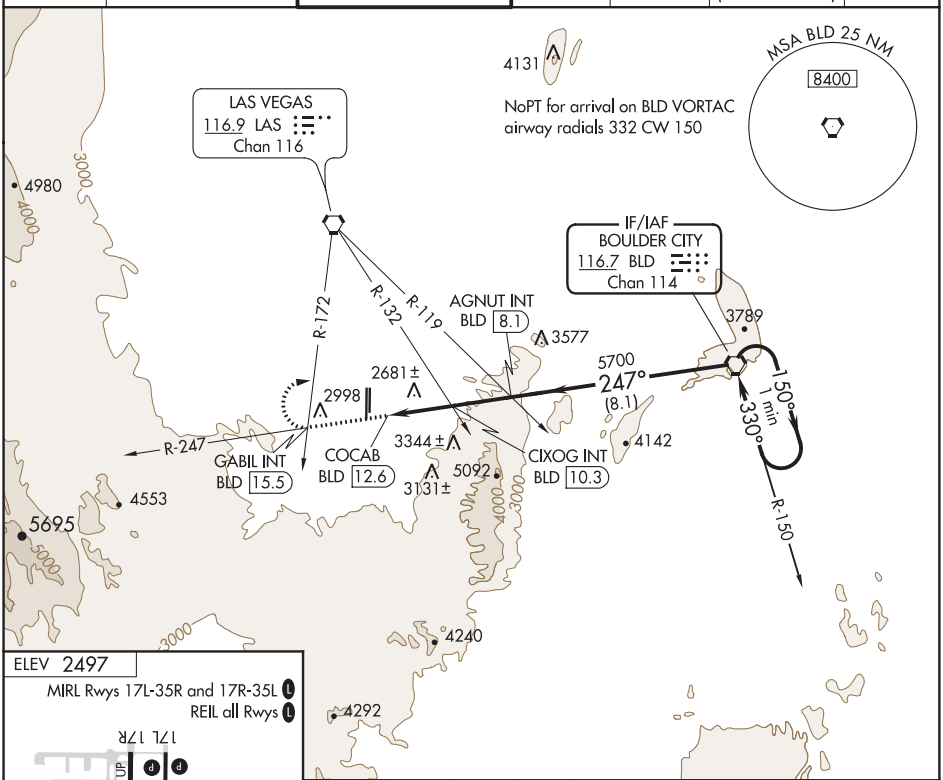
VORTAC BLD	APP CRS	Rwy ldg	N/A
116.7	247°	TDZE	N/A
Chan 114		Apt Elev	2497

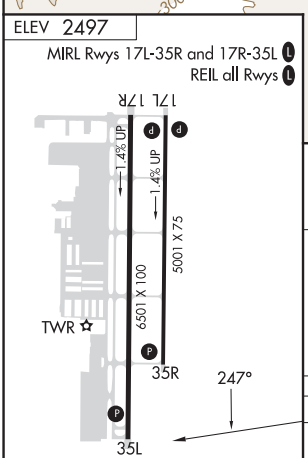
VOR-C
HENDERSON EXECUTIVE (HND)

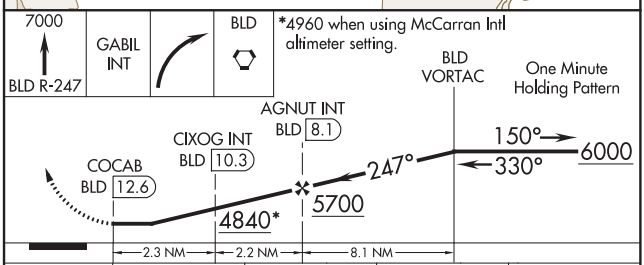
Circling to Rwy 35L NA at night.
If local altimeter setting not received, use McCarran Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climb to 7000 on BLD VORTAC R-247 to GABIL INT/BLD 15.5 DME and right turn direct BLD VORTAC and hold.

ATIS	LAS VEGAS APP CON	HENDERSON TOWER*	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
120.775	118.4 307.25	125.1 (CTAF) L	127.8	135.35	125.9	122.95







CATEGORY	A	B	C	D
CIRCLING	4840-1¼ 2343 (2400-1¼)	4840-1½ 2343 (2400-1½)	4840-3 2343 (2400-3)	NA
CIXOG FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
CIRCLING	3620-1¼ 1123 (1200-1¼)	3620-1½ 1123 (1200-1½)	3620-3 1123 (1200-3)	NA

FAF to MAP 4.5 NM					
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

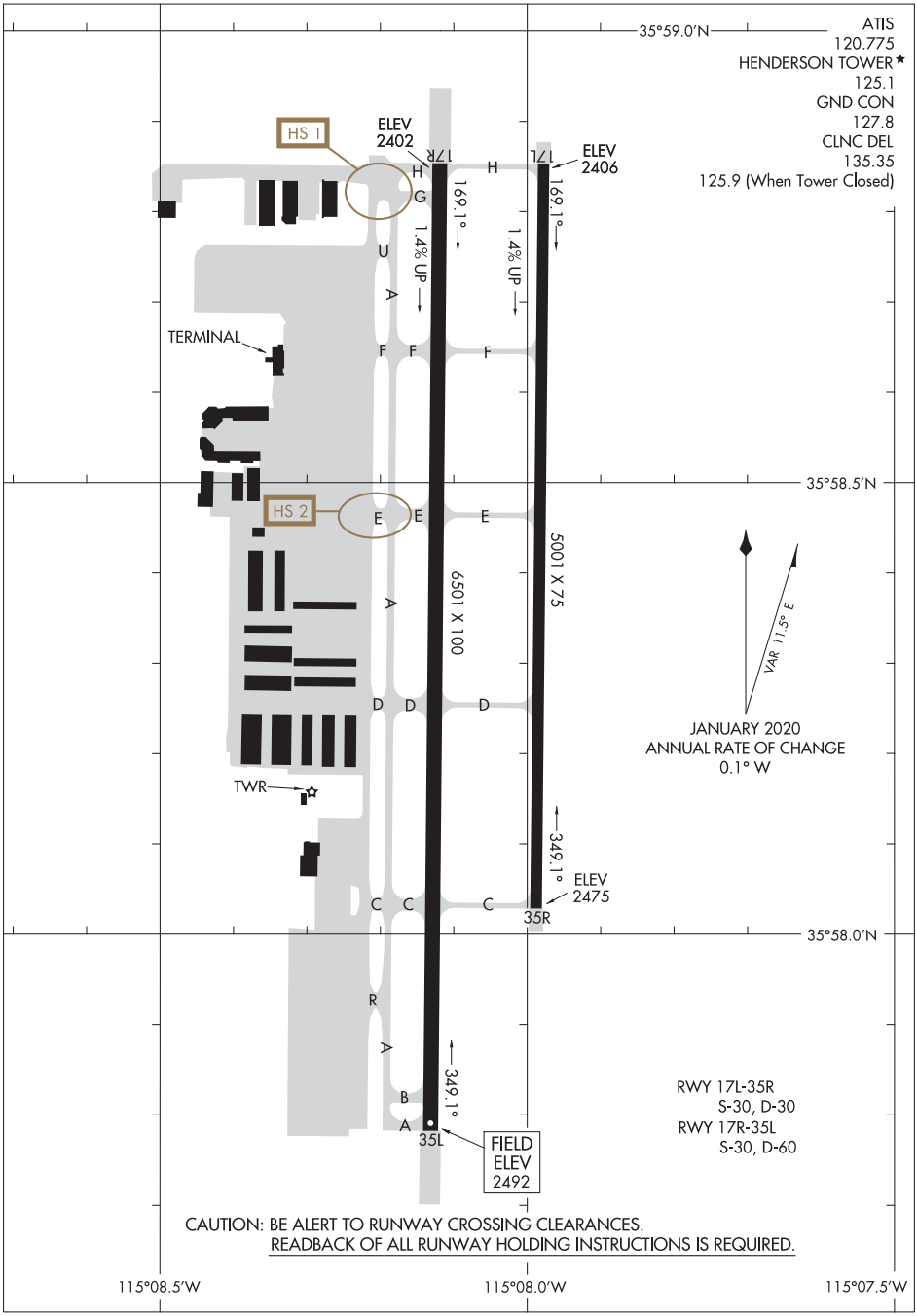
20086

AIRPORT DIAGRAM

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)

LAS VEGAS, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
LAS VEGAS, NEVADA
HENDERSON EXECUTIVE (HND)

AL-6514 (FAA)

TOP ALTITUDE: FL190

ATIS 120.775
GND CON 127.8
HENDERSON TOWER★ 125.1 (CTAF)
LAS VEGAS DEP CON 118.4

NOTE: GPS required.
NOTE: RNAV 1.
NOTE: Do not exceed 200K until leaving 6000.
NOTE: For Jet aircraft only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17R: Climb on heading 168° to intercept course 199° to CAVER, then on track 160° to DAWNI, then on track 099° to CAPTA, then on track 073° to BAWLD, then on track 052° to cross ACSIN at or above 13000, thence. . . .

TAKEOFF RUNWAY 35L: Climb on heading 348° to intercept course 073° to cross KITEE at 6000, then on track 148° to JAMIA, then on track 082° to SCAMR, then on track 082° to cross ACSIN at or above 13000, thence. . . .

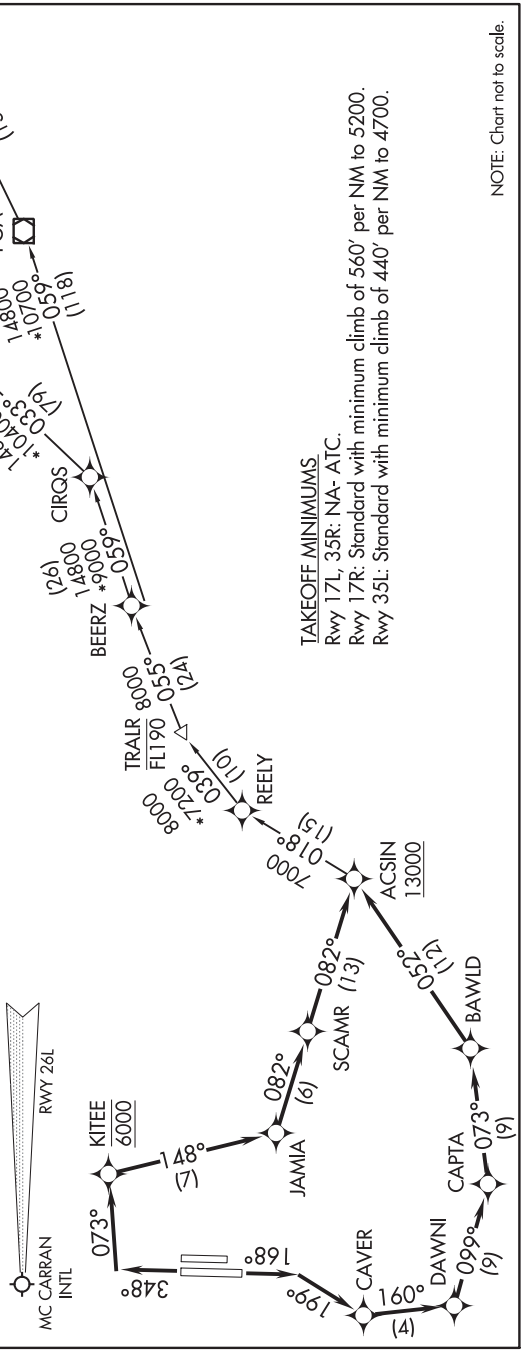
. . . .on assigned transition, maintain FL190, expect filed altitude 10 minutes after departure.

CIRQS TRANSITION (ACSIN6.CIRQS)

DOVE CREEK TRANSITION (ACSIN6.DVC)

VERKN TRANSITION (ACSIN6.VERKN)

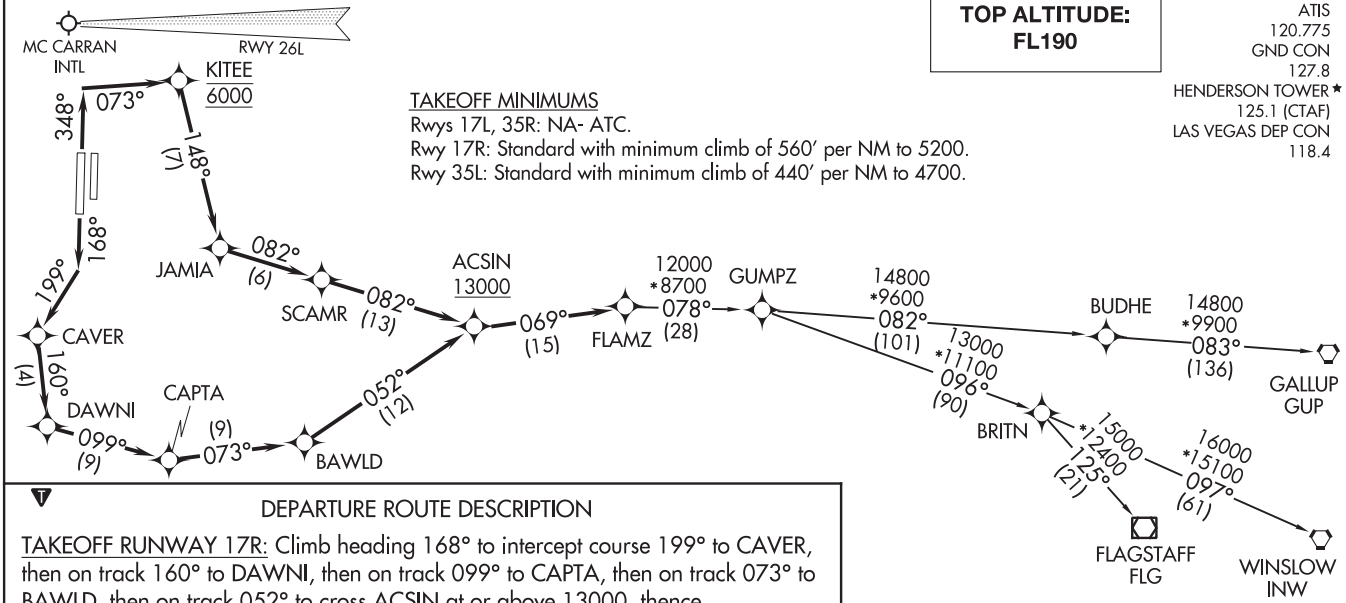
TAKEOFF MINIMUMS
Rwy 17L, 35R: NA- ATC.
Rwy 17R: Standard with minimum climb of 560′ per NM to 5200.
Rwy 35L: Standard with minimum climb of 440′ per NM to 4700.



TOP ALTITUDE: FL190

ATIS 120.775
GND CON 127.8
HENDERSON TOWER ★ 125.1 (CTAF)
LAS VEGAS DEP CON 118.4

TAKEOFF MINIMUMS
Rwys 17L, 35R: NA- ATC.
Rwy 17R: Standard with minimum climb of 560′ per NM to 5200.
Rwy 35L: Standard with minimum climb of 440′ per NM to 4700.



NOTE: GPS required.
NOTE: RNAV 1.
NOTE: For jet aircraft only.

NOTE: Chart not to scale.

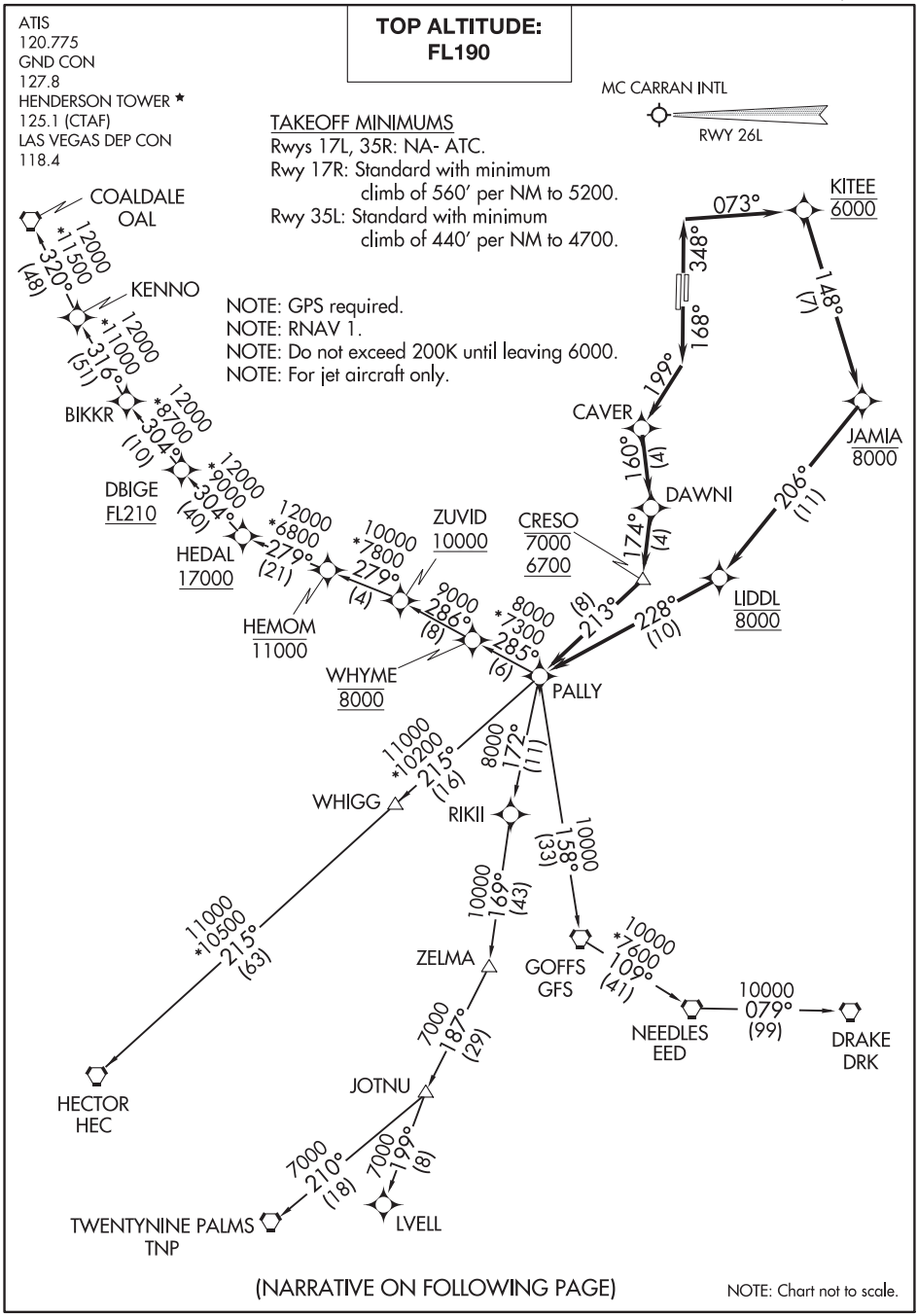
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17R: Climb heading 168° to intercept course 199° to CAVER, then on track 160° to DAWNI, then on track 099° to CAPTA, then on track 073° to BAWLD, then on track 052° to cross ACSIN at or above 13000, thence. . . .

TAKEOFF RUNWAY 35L: Climb heading 348° to intercept course 073° to cross KITEE at 6000, then on track 148° to JAMIA, then on track 082° to SCAMR, then on track 082° to cross ACSIN at or above 13000, thence. . . .

. . . .on track 069° to FLAMZ, then on assigned transition. Maintain FL190, expect filed altitude 10 minutes after departure.

FLAGSTAFF TRANSITION (FLAMZ6.FLG)
GALLUP TRANSITION (FLAMZ6.GUP)
WINSLOW TRANSITION (FLAMZ6.INW)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(PALLY6.PALLY) 19059

PALLY SIX DEPARTURE (RNAV)

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17R: Climb on heading 168° to intercept course 199° to CAVER, then on track 160° to DAWNI, then on track 174° to cross CRESO at or below 7000 and at or above 6700, then on track 213° to PALLY, thence. . . .

TAKEOFF RUNWAY 35L: Climb on heading 348° to intercept course 073° to cross KITEE at 6000, then on track 148° to cross JAMIA at or below 8000, then on track 206° to cross LIDDL at 8000, then on track 228° to PALLY, thence. . . .

. . . .on assigned transition, maintain FL190, expect filed altitude 10 minutes after departure.

COALDALE TRANSITION (PALLY6.OAL)
DRAKE TRANSITION (PALLY6.DRK)
HECTOR TRANSITION (PALLY6.HEC)
KENNO TRANSITION (PALLY6.KENNO)
LVELL TRANSITION (PALLY6.LVELL)
RIKII TRANSITION (PALLY6.RIKII)
TWENTYNINE PALMS TRANSITION (PALLY6.TNP)
WHIGG TRANSITION (PALLY6.WHIGG)

SW-4, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-CUA	APP CRS	Rwy ldg	8401
110.1	014°	TDZE	2176
Chan 38		Apt Elev	2181

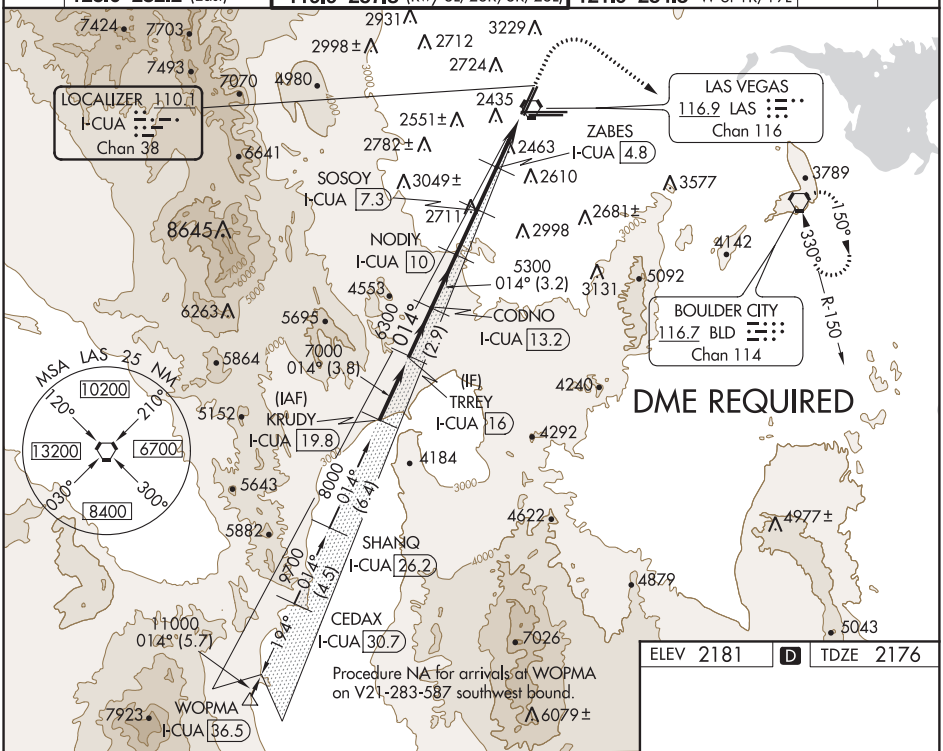
ILS or LOC RWY 1L
MC CARRAN INTL (LAS)

Rwy 1L helicopter visibility reduction below ¾ SM NA.
DME required.
For inop ALS, increase S-ILS 1L all Cats visibility to ⅞ SM.

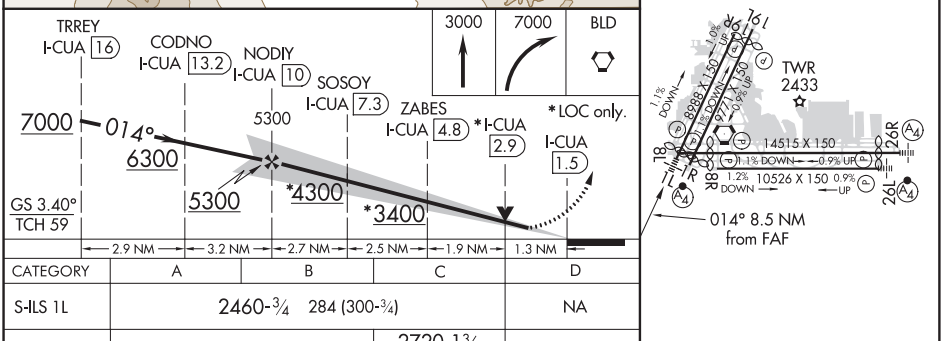
MALSF

MISSED APPROACH: Climb to 3000 then climbing right turn to 7000 direct BLD VORTAC and hold, continue climb-in-hold to 7000.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	



ELEV 2181 | D | TDZE 2176



CATEGORY	A	B	C	D
S-ILS 1L	2460-¾ 284 (300-¾)			NA
S-LOC 1L	2720-¾ 544 (600-¾)		2720-1⅜ 544 (600-1⅜)	NA
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	NA

REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA AL-662 (FAA)

19283

ILS or LOC RWY 26L
MC CARRAN INTL (LAS)

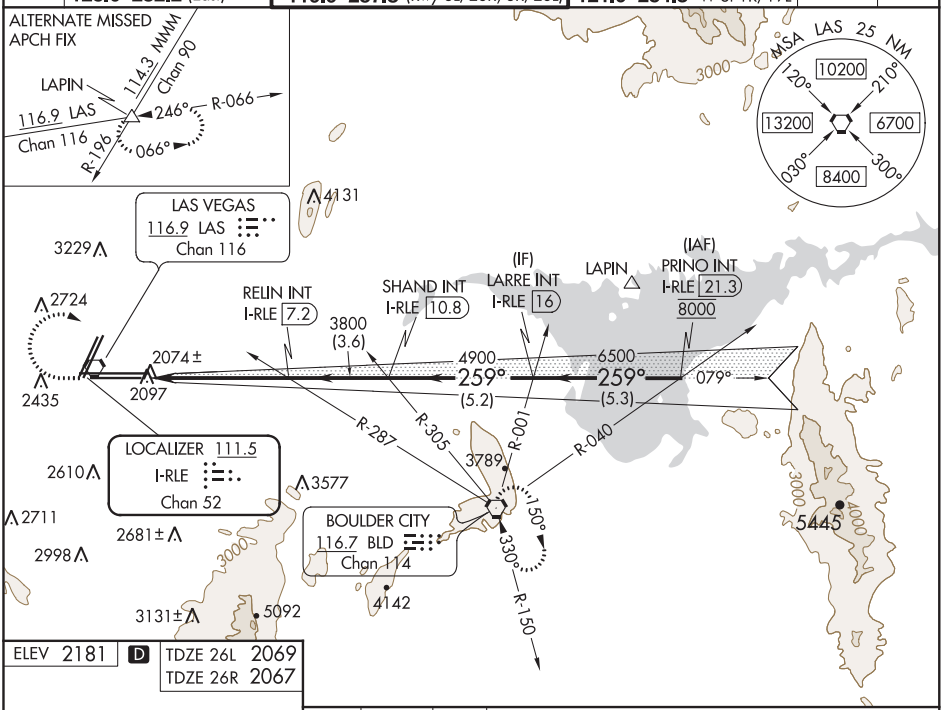
LOC/DME I-RLE	APP CRS		26L	26R
111.5	259°	Rwy ldg	10525	12639
Chan 52		TDZE	2069	2067
		Apt Elev	2181	2181

Inop table does not apply to S-ILS Rwy 26L and Sidestep Rwy 26R. For inop ALS, increase S-LOC 26L Cat C/D/E visibility to 1⅜ SM.

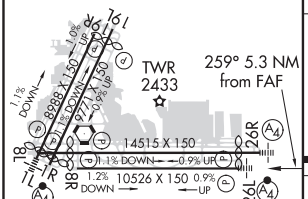
MALSF Rwy 26L (A4) MALS Rwy 26R (A4)

MISSED APPROACH: Climb to 3100 then climbing right turn to 7000 direct BLD VORTAC and hold, continue climb-in-hold to 7000.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	

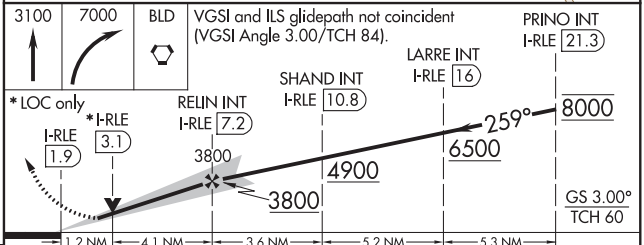


ELEV 2181	D	TDZE 26L 2069
		TDZE 26R 2067



REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D	E
S-ILS 26L	2269-¾ 200 (100-¾)				
S-LOC 26L	2520-¾ 451 (400-¾)		2520-1 451 (400-1)		
SIDESTEP 26R	2560-1 493 (400-1)		2560-1½ 493 (400-1½)	2560-2 493 (400-2)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

19283

ILS or LOC RWY 26R
MC CARRAN INTL (LAS)

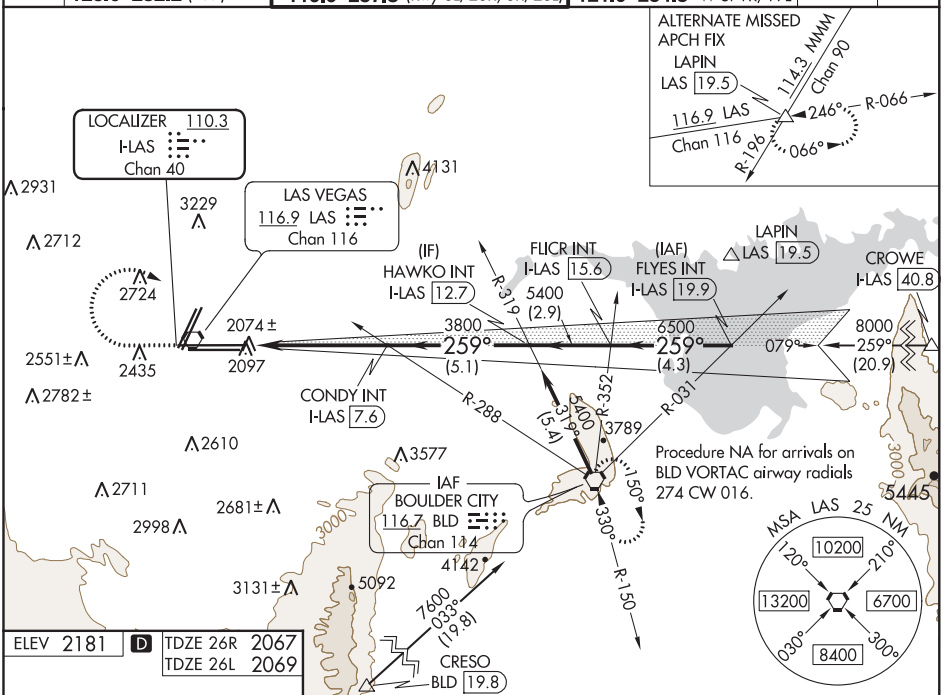
LOC/DME I-LAS	APP CRS	Rwy ldg	26R	26L
110.3	259°		12639	10525
Chan 40		TDZE	2067	2069
		Apt Elev	2181	2181

Inop table does not apply to Sidestep Rwy 26L.
For inop ALS, increase S-ILS 26R all Cats visibility to 1 SM, and S-LOC 26R Cat D and E visibility to 1⅜ SM.

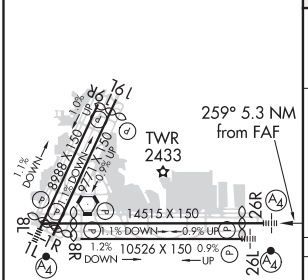
MALS Rwy 26R — MALSF Rwy 26L

MISSED APPROACH: Climb to 3200 then climbing right turn to 6000 direct BLD VORTAC and hold, continue climb-in-hold to 6000.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	

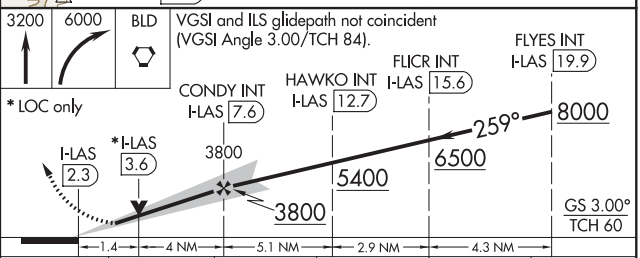


ELEV 2181 D TDZE 26R 2067 TDZE 26L 2069



REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D	E
S-ILS 26R	2359-¾ 292 (200-¾)				
S-LOC 26R	2560-¾ 493 (400-¾)		2560-1⅛ 493 (400-1⅛)		
SIDESTEP RWY 26L	2560-1 491 (400-1)		2560-1½ 491 (400-1½)	2560-2 491 (400-2)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA | AL-662 (FAA) | 19283

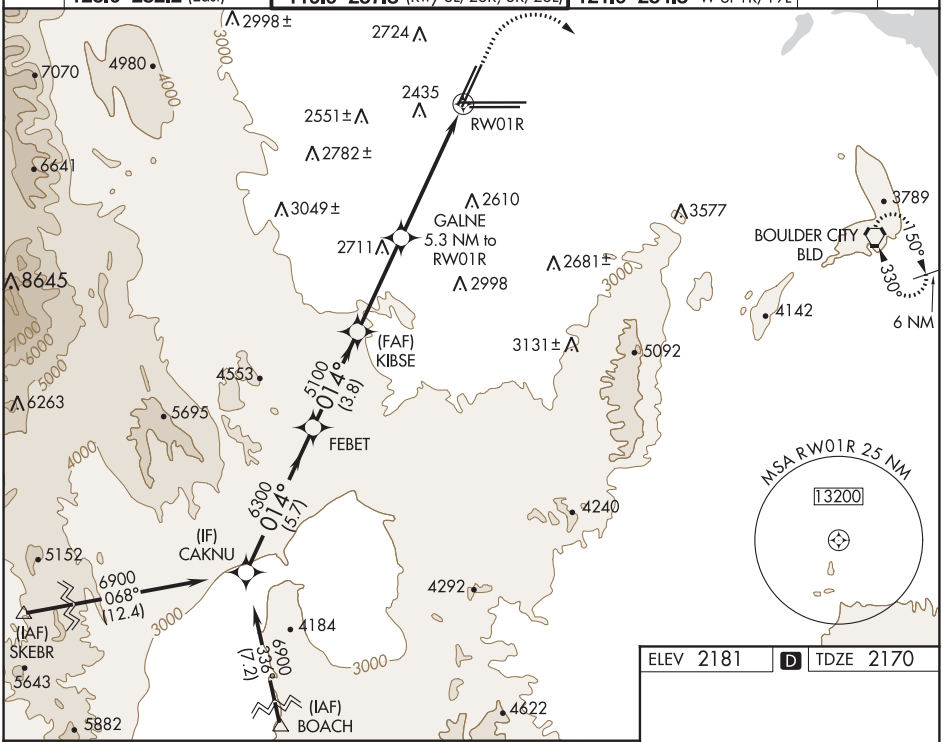
RNAV (GPS) RWY 1R
MC CARRAN INTL (LAS)

WAAS CH 42800 W01A	APP CRS 014°	Rwy ldg 8782 TDZE 2170 Apt Elev 2181

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 52°C (126°F). Rwy 1R helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

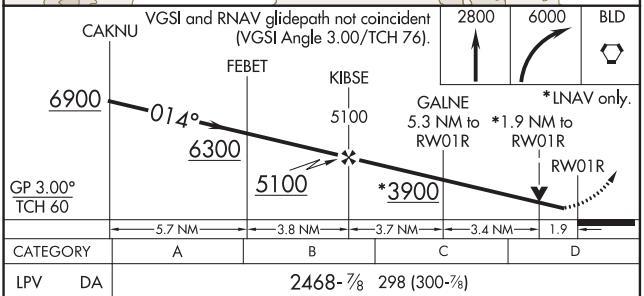
MISSED APPROACH: Climb to 2800 then climbing right turn to 6000 direct BLD VORTAC and hold, continue climb-in-hold to 6000.

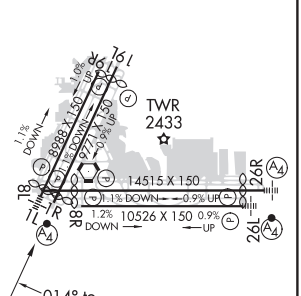
D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	



SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 2181 | D | TDZE 2170





CATEGORY	A	B	C	D
LPV DA	2468-⅞ 298 (300-⅞)			
LNAV/VNAV DA	2633-1½ 463 (500-1½)			
LNAV MDA	2860-1 690 (700-1)		2860-2 690 (700-2)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)

REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

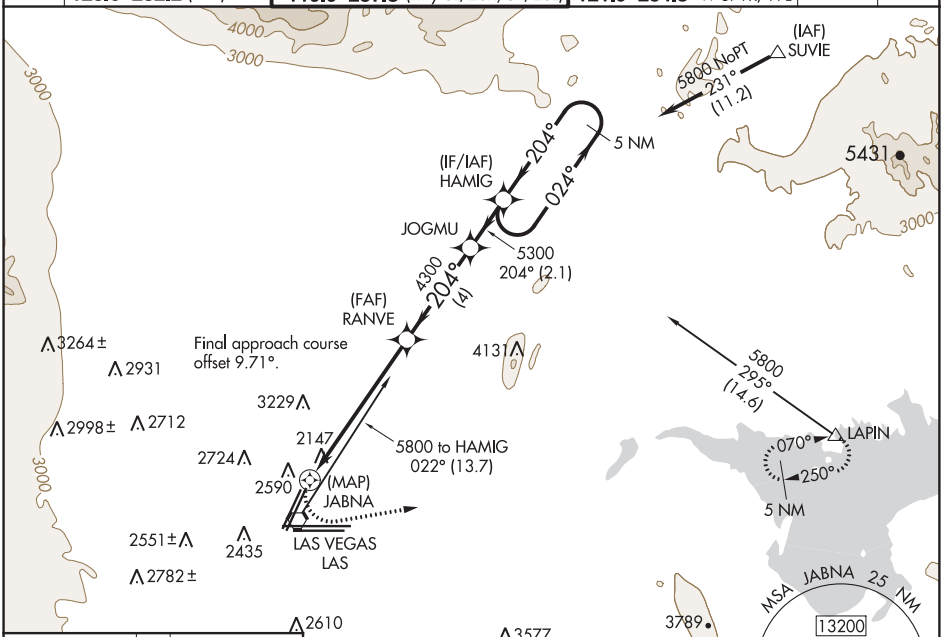
WAAS CH 45542 W19A	APP CRS 204°	Rwy ldg 8803 TDZE 2112 Apt Elev 2181

RNAV (GPS) RWY 19L
MC CARRAN INTL (LAS)

DME/DME RNP-0.3 NA.

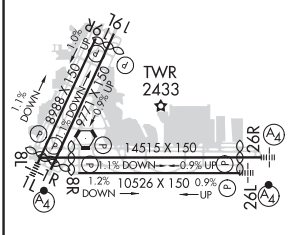
MISSED APPROACH: Climbing left turn to 6000 direct LAPIN and hold.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	



ELEV 2181 | D | TDZE 2112

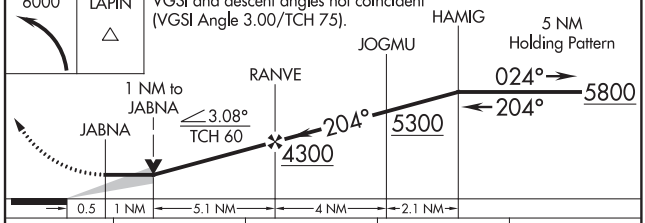
204° to JABNA



REIL Rwys 1R, 8R, 19L, and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R, and 8R-26L

6000 | LAPIN

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 75).



CATEGORY	A	B	C	D
LP MDA	2640-1 528 (500-1)		2640-1½ 528 (500-1½)	
LNAV MDA	2760-1 648 (600-1)		2760-1⅞ 648 (600-1⅞)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA | AL-662 (FAA) | 20198

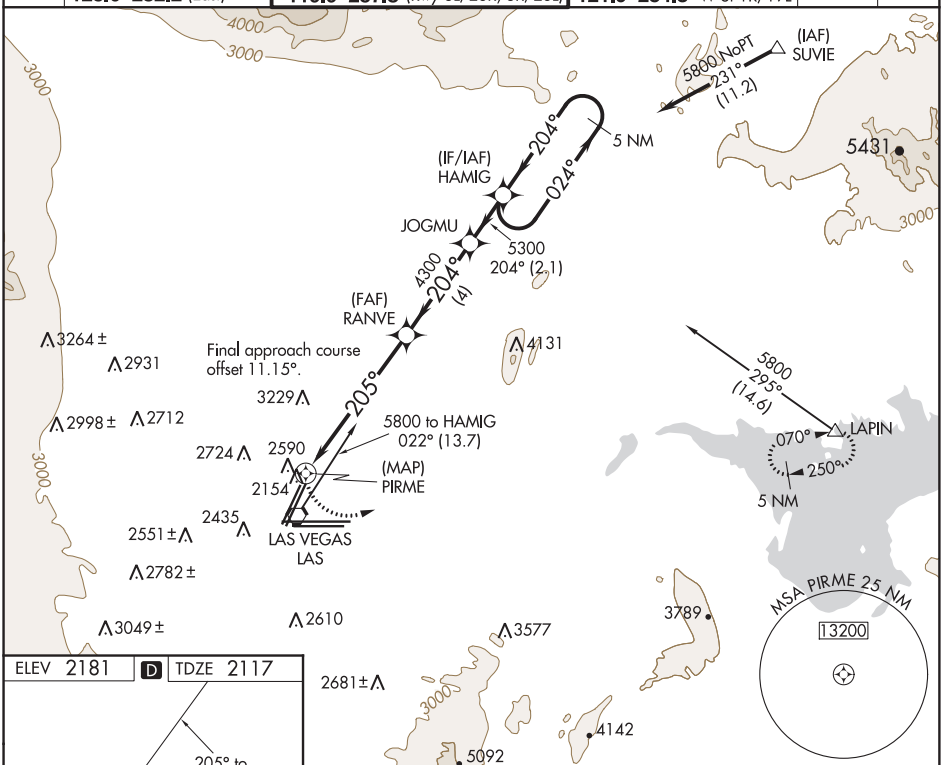
RNAV (GPS) RWY 19R
MC CARRAN INTL (LAS)

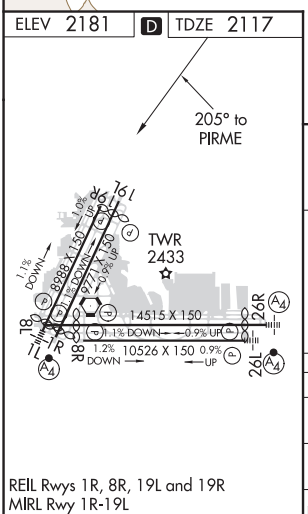
WAAS CH 50142 W19B	APP CRS 205°	Rwy ldg 8400	TDZE 2117	Apt Elev 2181

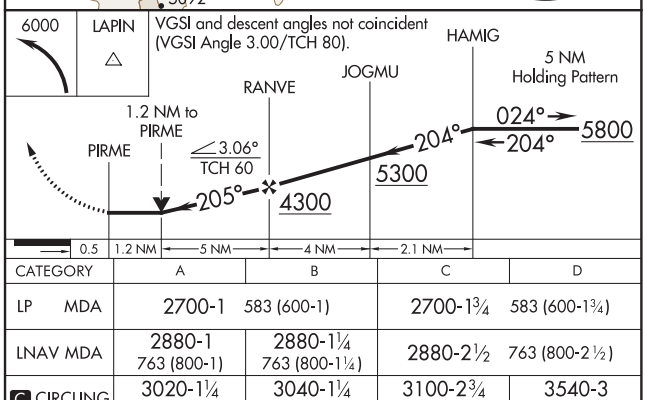
Rwy 19R helicopter visibility reduction below ¾ SM NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 6000 direct LAPIN and hold.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	







CATEGORY	A	B	C	D
LP MDA	2700-1 583 (600-1)		2700-1¾ 583 (600-1¾)	
LNAV MDA	2880-1 763 (800-1)	2880-1¼ 763 (800-1¼)	2880-2½ 763 (800-2½)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)

REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

SW-4, 05 NOV 2020 to 31 DEC 2020

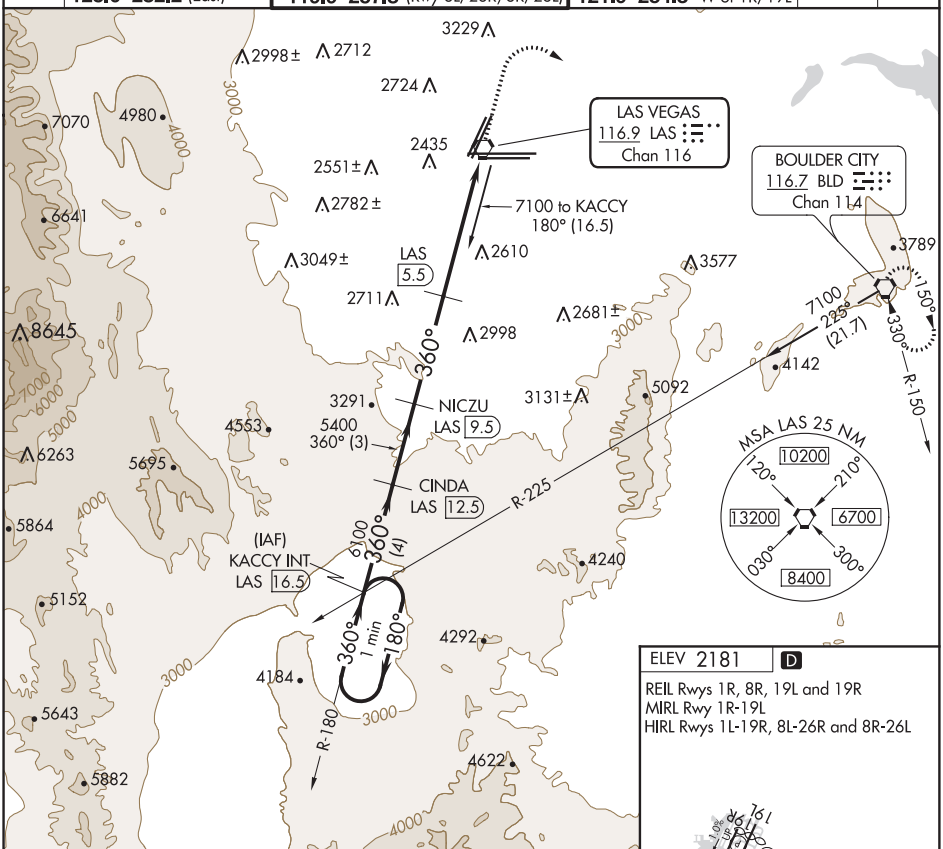
SW-4, 05 NOV 2020 to 31 DEC 2020

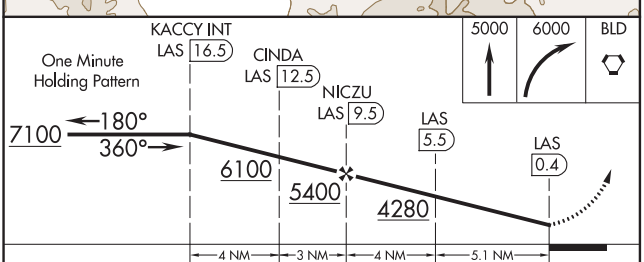
VORTAC LAS 116.9 Chan 116	APP CRS 360°	Rwy ldg N/A TDZE N/A Apt Elev 2181

VOR/DME-A
MC CARRAN INTL (LAS)

MISSED APPROACH: Climb to 5000 then climbing right turn to 6000 direct BLD VORTAC and hold.

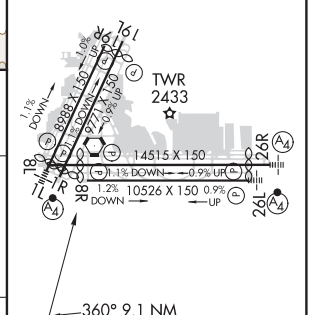
D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	





ELEV 2181 D

REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L



CATEGORY	A	B	C	D
C CIRCLING	3080-1¼ 899 (900-1¼)		3280-3 1099 (1100-3)	3540-3 1359 (1400-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA
Orig-E 23APR20
36°05'N-115°09'W
187
MC CARRAN INTL (LAS)
VOR/DME-A

LAS VEGAS, NEVADA AL-662 (FAA)

19283

VOR RWY 26L/R
MC CARRAN INTL (LAS)

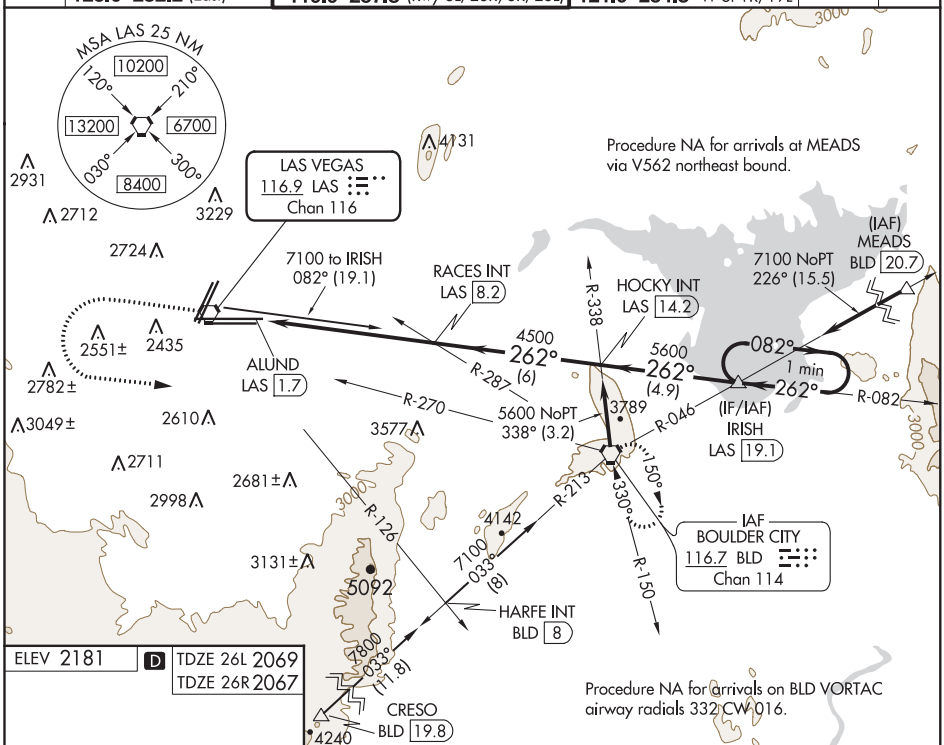
VORTAC LAS	APP CRS		26L	26R
116.9	262°	Rwy ldg	10525	12639
Chan 116		TDZE	2069	2067
		Apt Elev	2181	2181

T A For inop ALS, increase S-26L and S-26R Cat D visibility ¼ SM.

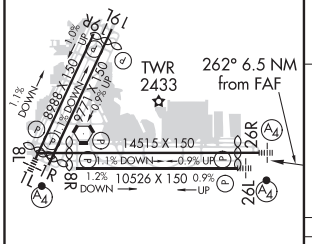
MALSF Rwy 26L (A4) MALS Rwy 26R (A4)

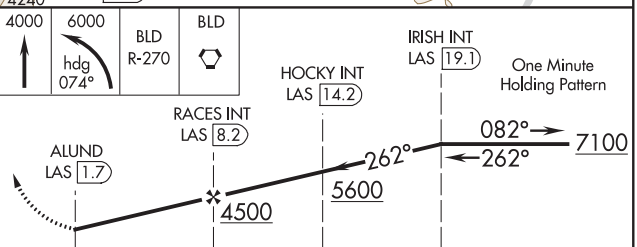
MISSED APPROACH: Climb to 4000 then climbing left turn to 6000 on heading 074° and BLD R-270 to BLD VORTAC and hold.

D-ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON	CLNC DEL	CPDLC
132.4	125.025 379.15 (West) 125.6 282.2 (East)	118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 8L/26R, 8R/26L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	



ELEV 2181 D TDZE 26L 2069 TDZE 26R 2067





REIL Rwys 1R, 8R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rwys 1L-19R, 8L-26R and 8R-26L

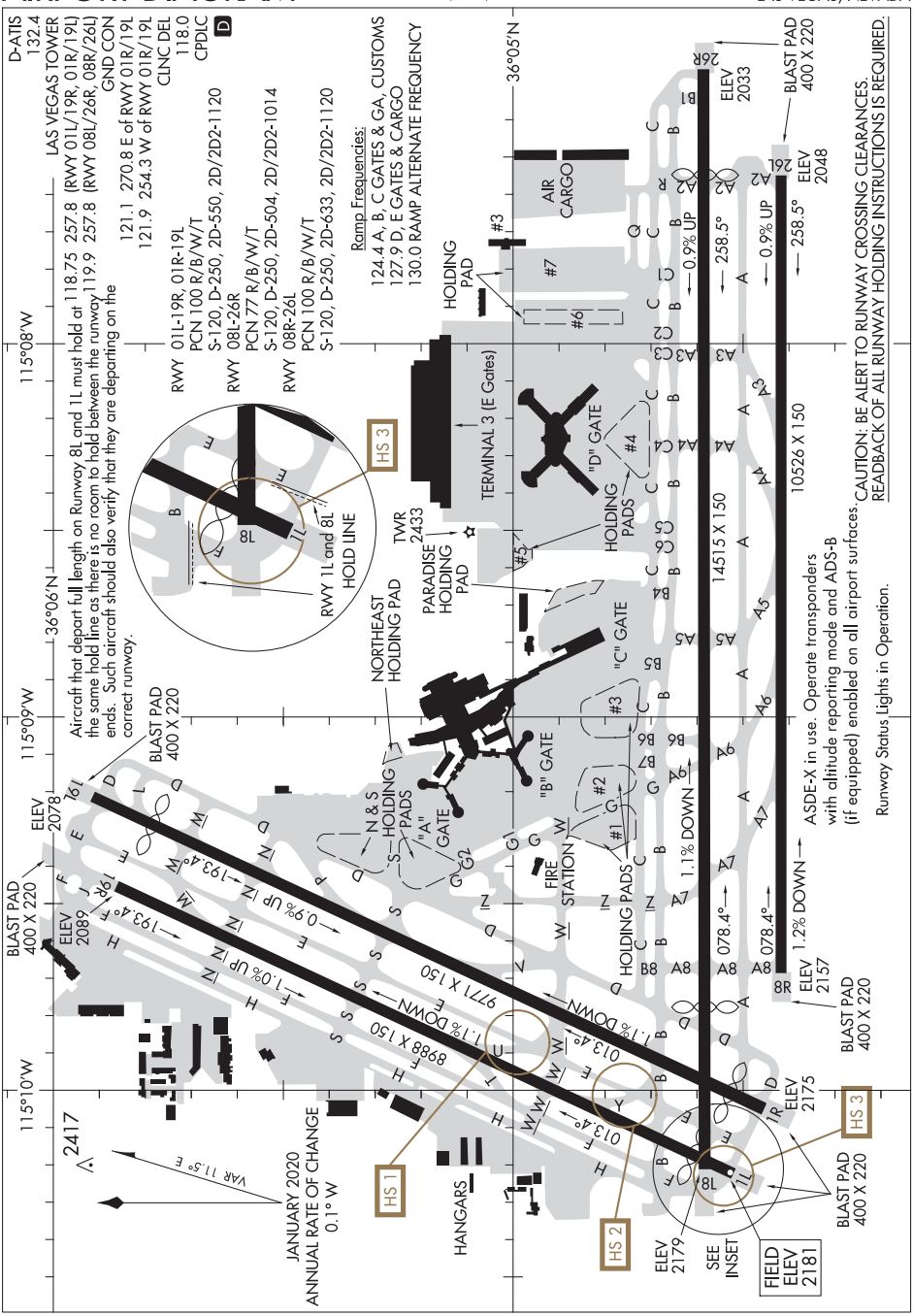
FAF to MAP 6.5 NM

Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10

CATEGORY	A	B	C	D
S-26L	2720-¾ 651 (600-¾)		2720-1⅝ 651 (600-1⅝)	
S-26R	2720-¾ 653 (600-¾)		2720-1⅝ 653 (600-1⅝)	
C CIRCLING	3020-1¼ 839 (900-1¼)	3040-1¼ 859 (900-1¼)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

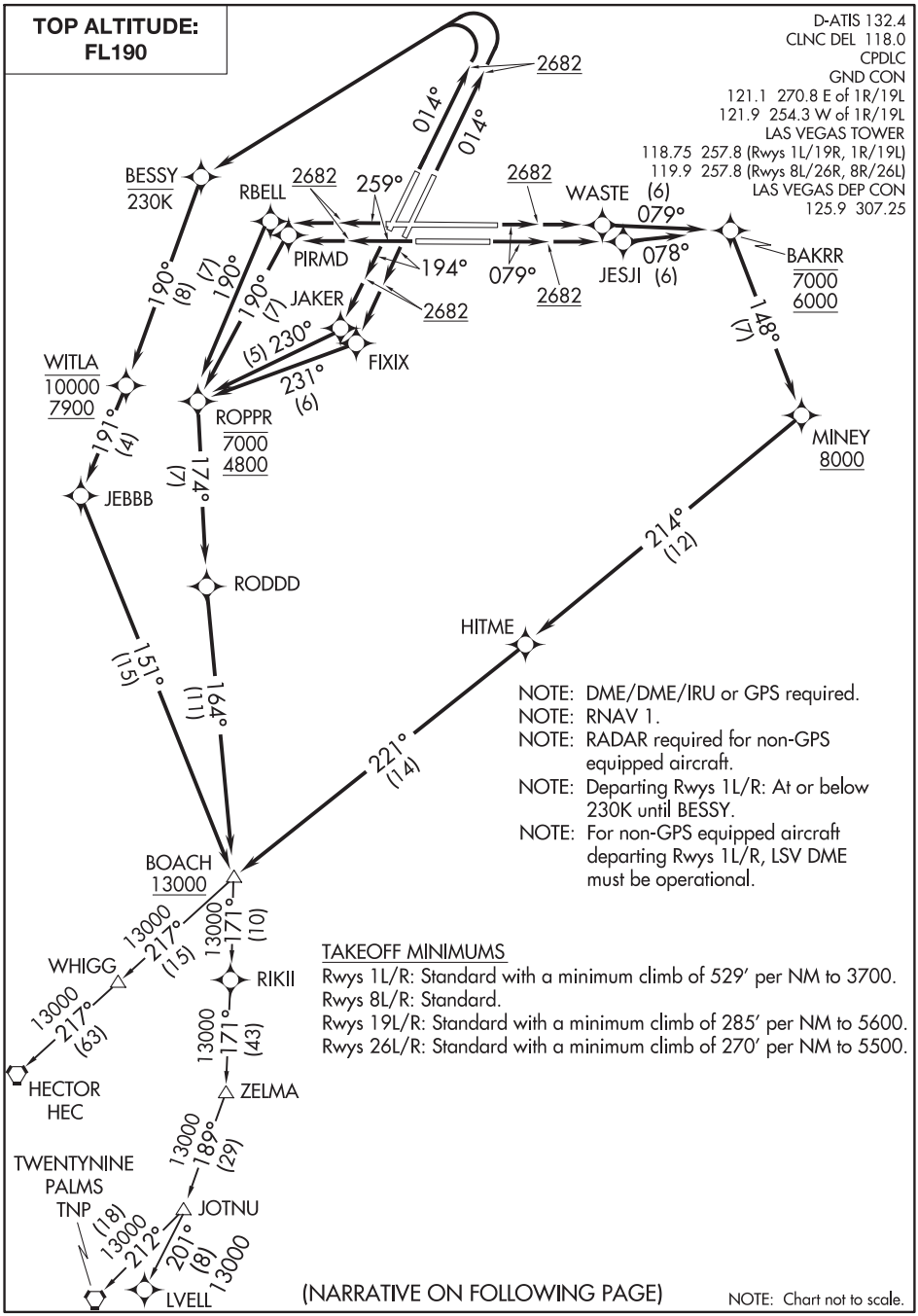
SW-4, 05 NOV 2020 to 31 DEC 2020

(BOACH8.BOACH) 17229

BOACH EIGHT DEPARTURE (RNAV)

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

BOACH EIGHT DEPARTURE (RNAV)

(BOACH8.BOACH) 17AUG17

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L/R: Climb heading 014° to 2682, then left turn direct BESSY, then on track 190° to cross WITLA at or below 10000 and at or above 7900, then on track 191° to JEBBB, then on track 151° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 8L: Climb heading 079° to 2682, then direct WASTE, then on track 079° to cross BAKRR at or below 7000 and at or above 6000, then on track 148° to cross MINEY at or above 8000, then on track 214° to HITME, then on track 221° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 8R: Climb heading 079° to 2682, then direct JESJI, then on track 078° to cross BAKRR at or below 7000 and at or above 6000, then on track 148° to cross MINEY at or above 8000, then on track 214° to HITME, then on track 221° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 194° to 2682, then direct FIXIX, then on track 231° to cross ROPPR at or below 7000 and at or above 4800, then on track 174° to RODDD, then on track 164° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 194° to 2682, then direct JAKER, then on track 230° to cross ROPPR at or below 7000 and at or above 4800, then on track 174° to RODDD, then on track 164° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct PIRMD, then on track 190° to cross ROPPR at or below 7000 and at or above 4800, then on track 174° to RODDD, then on track 164° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct RBELL, then on track 190° to cross ROPPR at or below 7000 and at or above 4800, then on track 174° to RODDD, then on track 164° to cross BOACH at or above 13000. Thence. . . .

. . . . on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (BOACH8.HEC)

LVELL TRANSITION (BOACH8.LVELL)

RIKII TRANSITION (BOACH8.RIKII)

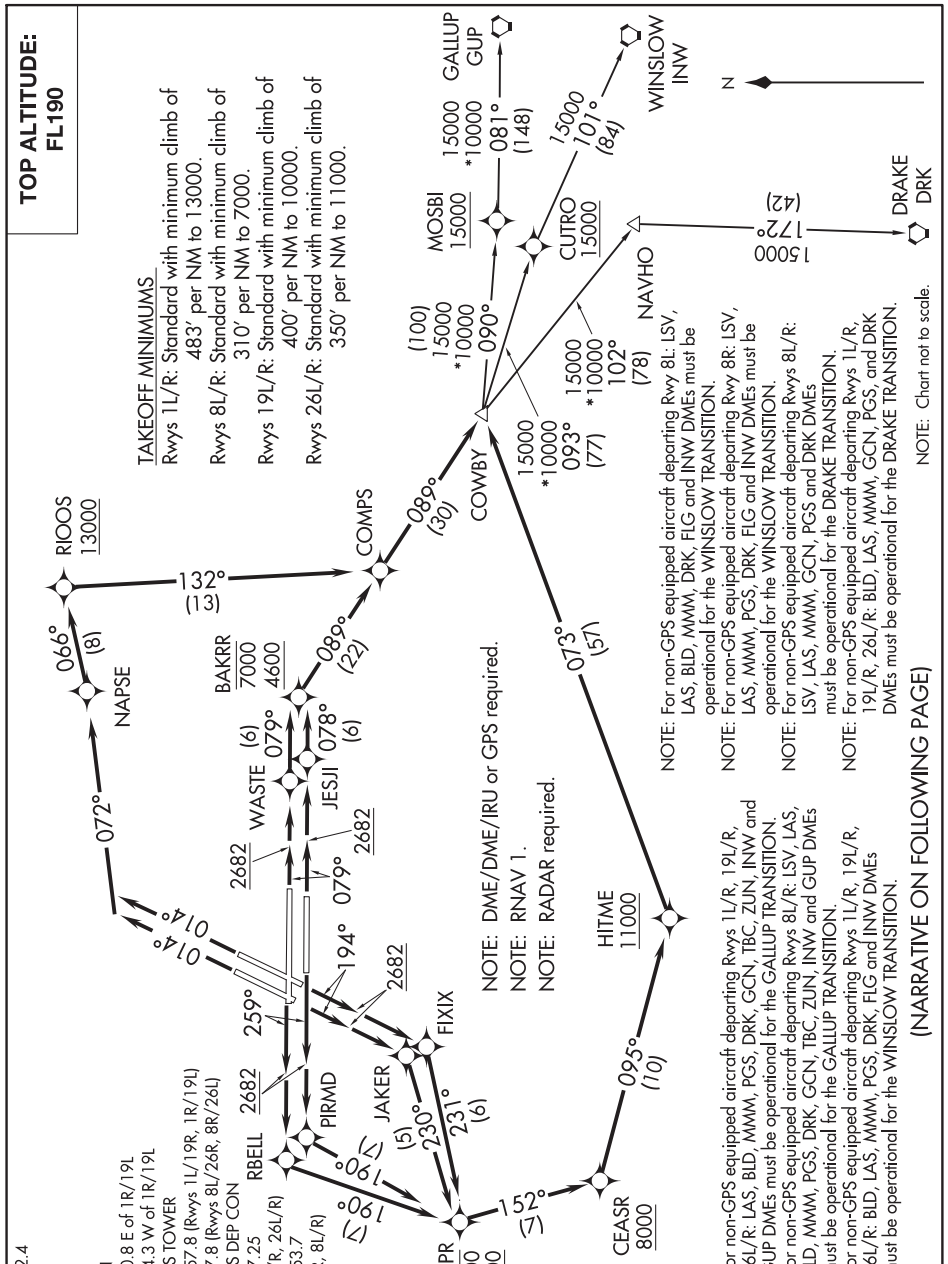
TWENTYNINE PALMS TRANSITION (BOACH8.TNP)

WHIGG TRANSITION (BOACH8.WHIGG)

(COWBY8.COWBY) 17285

COWBY EIGHT DEPARTURE (RNAV) AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



COWBY EIGHT DEPARTURE (RNAV)

(COWBY8.COWBY) 12OCT17

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L/R: Climb heading 014° to intercept course 072° to NAPSE, then on track 066° to cross RIOOS at or above 13000, then on track 132° to COMPS, then on track 089° to COWBY, thence. . . .

TAKEOFF RUNWAY 8L: Climb heading 079° to 2682, then direct WASTE, then on track 079° to cross BAKRR at or below 7000 and at or above 4600, then on track 089° to COMPS, then on track 089° to COWBY, thence. . . .

TAKEOFF RUNWAY 8R: Climb heading 079° to 2682, then direct JESJI, then on track 078° to cross BAKRR at or below 7000 and at or above 4600, then on track 089° to COMPS, then on track 089° to COWBY, thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 194° to 2682, then direct FIXIX, then on track 231° to cross ROPPR at or below 7000 and at or above 5900, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 073° to COWBY, thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 194° to 2682, then direct JAKER, then on track 230° to cross ROPPR at or below 7000 and at or above 5900, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 073° to COWBY, thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct PIRMD, then on track 190° to cross ROPPR at or below 7000 and at or above 5900, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 073° to COWBY, thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct RBELL, then on track 190° to cross ROPPR at or below 7000 and at or above 5900, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 073° to COWBY, thence. . . .

. . . . on (transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (COWBY8.DRK)

GALLUP TRANSITION (COWBY8.GUP)

WINSLOW TRANSITION (COWBY8.INW)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(HOOVR6.LAS) 17229

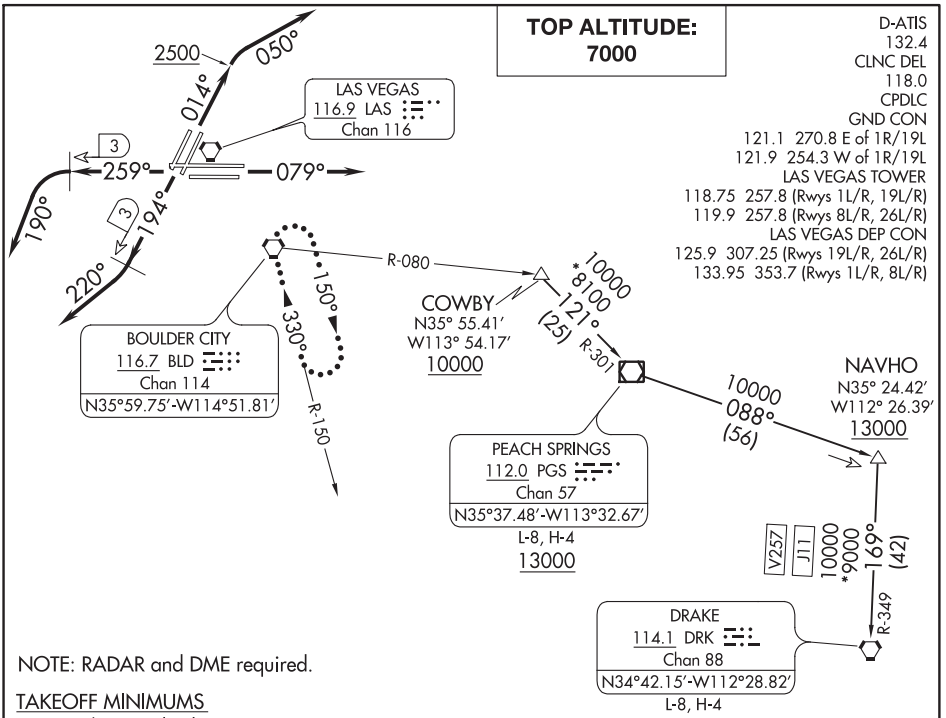
HOOVER SIX DEPARTURE

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

TOP ALTITUDE: 7000

D-ATIS
132.4
CLNC DEL
118.0
CPDLC
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwys 1L/R, 19L/R)
119.9 257.8 (Rwys 8L/R, 26L/R)
LAS VEGAS DEP CON
125.9 307.25 (Rwys 19L/R, 26L/R)
133.95 353.7 (Rwys 1L/R, 8L/R)



NOTE: RADAR and DME required.

TAKEOFF MINIMUMS
Rwys 8L/R: Standard.
Rwys 1L/R: Standard with minimum climb of 400′ per NM to 5200.
Rwys 19L/R, 26L/R: Standard with minimum climb of 360′ per NM to 7000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 2500, then climbing right turn heading 050°, thence. . . .

TAKEOFF RUNWAYS 8L/R: Climb heading 079°, thence. . . .

TAKEOFF RUNWAYS 19L/R: Climb heading 194° until LAS VORTAC 3 DME, then climbing right turn heading 220°, thence. . . .

TAKEOFF RUNWAYS 26L/R: Climb heading 259° until LAS VORTAC 3 DME, then climbing left turn heading 190°, thence. . . .

. . . .RADAR vectors to transition or assigned route. Maintain 7000, expect clearance to filed altitude two minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000, proceed direct BLD VORTAC, then climb in BLD VORTAC holding pattern to appropriate MEA for route of flight.

DRAKE TRANSITION (HOOVR6.DRK): From over COWBY on PGS R-301 to PGS VOR/DME, then on PGS R-088 to NAVHO, then on DRK R-349 to DRK VORTAC.

PEACH SPRINGS TRANSITION (HOOVR6.PGS): From over COWBY on PGS R-301 to PGS VOR/DME.

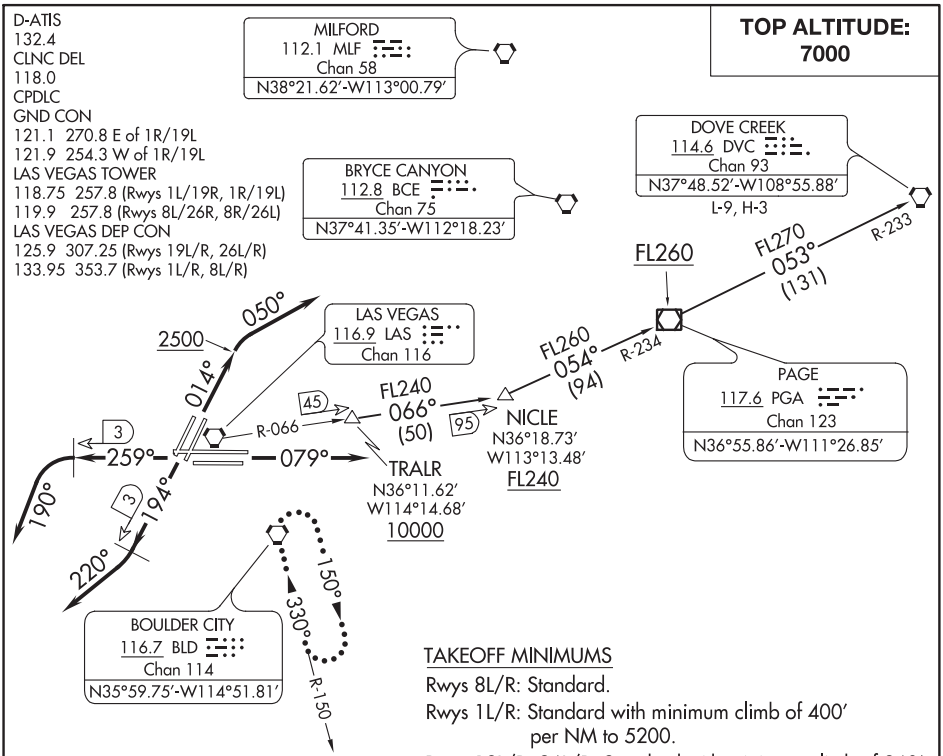
SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS FIVE DEPARTURE

AL-662 (FAA)

D-ATIS
132.4
CLNC DEL
118.0
CPDLC
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwys 1L/19R, 1R/19L)
119.9 257.8 (Rwys 8L/26R, 8R/26L)
LAS VEGAS DEP CON
125.9 307.25 (Rwys 19L/R, 26L/R)
133.95 353.7 (Rwys 1L/R, 8L/R)

TOP ALTITUDE: 7000



TAKEOFF MINIMUMS

Rwys 8L/R: Standard.

Rwys 1L/R: Standard with minimum climb of 400′ per NM to 5200.

Rwys 19L/R, 26L/R: Standard with minimum climb of 360′ per NM to 7000.

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 2500, then climbing right turn heading 050°, thence. . . .

TAKEOFF RUNWAYS 8L/R: Climb heading 079°, thence. . . .

TAKEOFF RUNWAYS 19L/R: Climb heading 194° until LAS VORTAC 3 DME, then climbing right turn heading 220°, thence. . . .

TAKEOFF RUNWAYS 26L/R: Climb heading 259° until LAS VORTAC 3 DME, then climbing left turn heading 190°, thence . . . .

. . . . RADAR vectors to transition or assigned route. Maintain 7000, expect clearance to filed altitude two minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000, proceed direct BLD VORTAC then climb in BLD VORTAC holding pattern to appropriate MEA for route of flight.

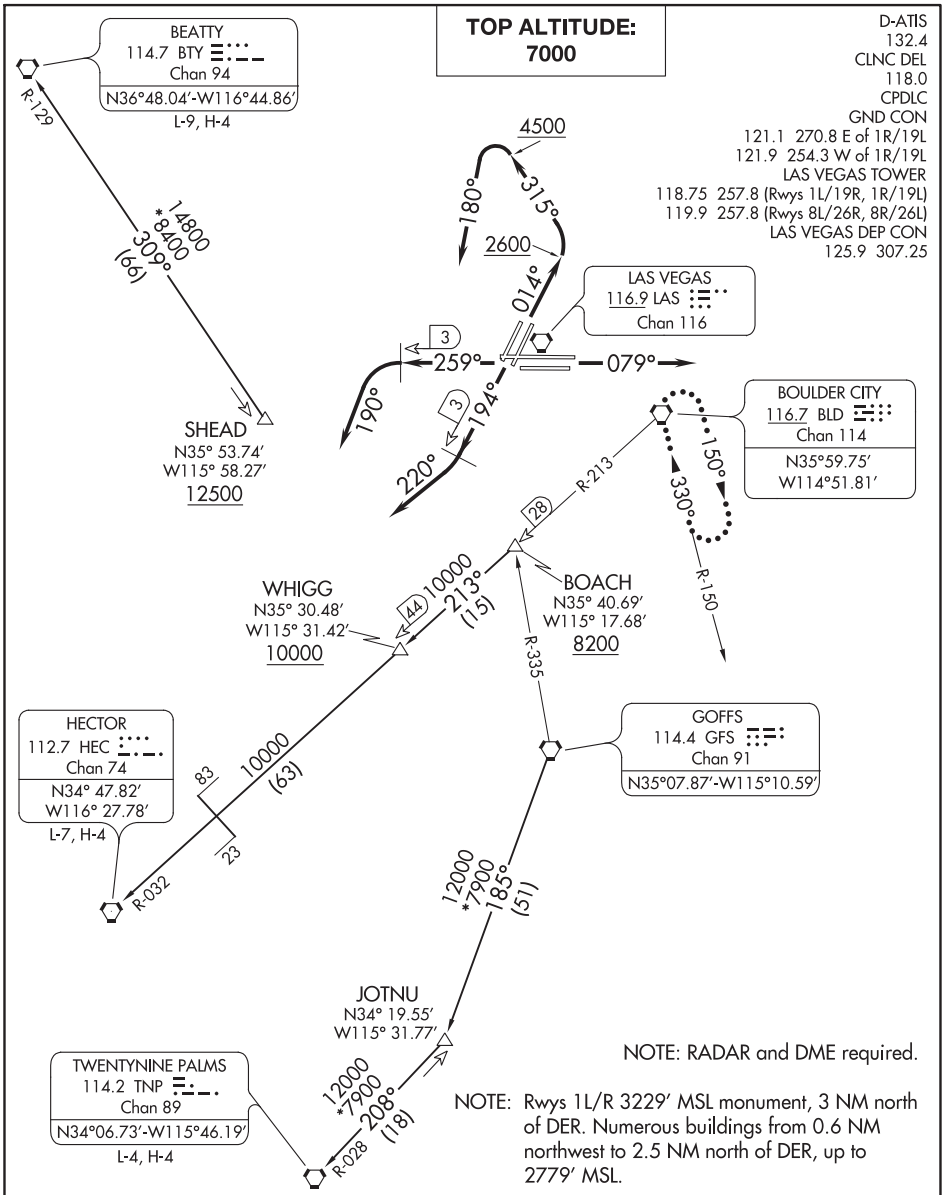
DOVE CREEK TRANSITION (LAS5.DVC): From over TRALR on LAS R-066 to NICLE, then on PGA R-234 to PGA VOR/DME, then on PGA R-053 and DVC R-233 to DVC VORTAC.

(MCCRN5.LAS) 17229

MCCARRAN FIVE DEPARTURE

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



TAKEOFF MINIMUMS

Rwys 1L/R: Standard with minimum climb of 529' per NM to 7000.
Rwys 8L/R: Standard with minimum climb of 440' per NM to 7000.
Rwys 19L/R, 26L/R: Standard with minimum climb of 360' per NM to 7000.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 2600, then climbing left turn heading 315° to 4500, then climbing left turn heading 180°, thence. . . .

TAKEOFF RUNWAYS 8L/R: Climb heading 079°, thence. . . .

TAKEOFF RUNWAYS 19L/R: Climb heading 194° until LAS VORTAC 3 DME, then climbing right turn heading 220°, thence. . . .

TAKEOFF RUNWAYS 26L/R: Climb heading 259° until LAS VORTAC 3 DME, then climbing left turn heading 190°, thence. . . .

. . . .RADAR vectors to transition or assigned route. Maintain 7000, expect clearance to filed altitude two minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC upon reaching 7000, proceed direct BLD VORTAC, then climb in BLD VORTAC holding pattern to the appropriate MEA for route of flight.

BEATTY TRANSITION (MCCRN5.BTY): From over SHEAD on BTY R-129 to BTY VORTAC.

HECTOR TRANSITION (MCCRN5.HEC): From over BOACH on BLD R-213 and HEC R-032 to HEC VORTAC.

TWENTY NINE PALMS TRANSITION (MCCRN5.TNP): From over GFS VORTAC on GFS R-185 and TNP R-028 to TNP VORTAC.

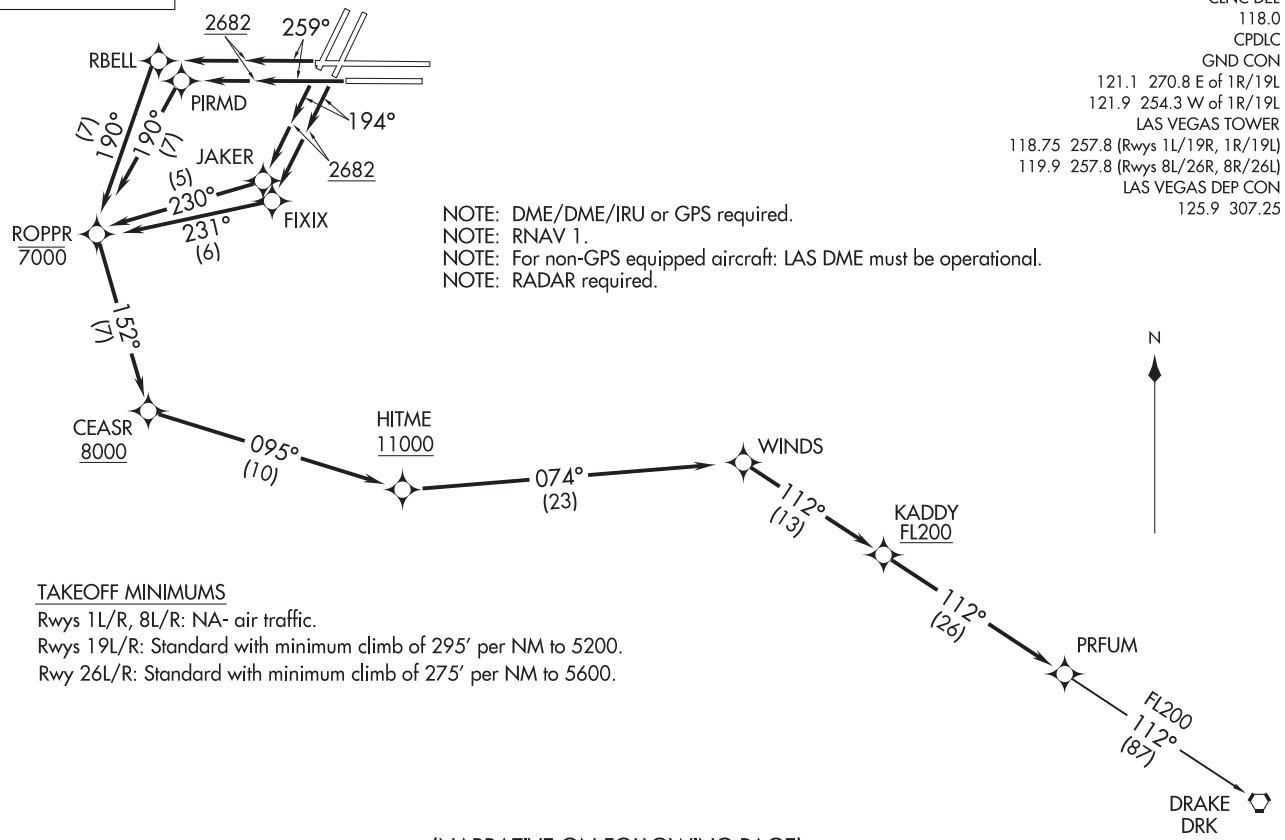
SW-4, 05 NOV 2020 to 31 DEC 2020

(PRFUM4.PRFUM) 19227
PRFUM FOUR DEPARTURE (RNAV)
AL-662 (FAA)
MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

TOP ALTITUDE: FL190

D-ATIS
132.4
CLNC DEL
118.0
CPDLC
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwys 1L/19R, 1R/19L)
119.9 257.8 (Rwys 8L/26R, 8R/26L)
LAS VEGAS DEP CON
125.9 307.25

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: For non-GPS equipped aircraft: LAS DME must be operational.
NOTE: RADAR required.



TAKEOFF MINIMUMS
Rwys 1L/R, 8L/R: NA- air traffic.
Rwys 19L/R: Standard with minimum climb of 295′ per NM to 5200.
Rwy 26L/R: Standard with minimum climb of 275′ per NM to 5600.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 19L: Climb heading 194° to 2682, then direct FIXIX, then on track 231° to cross ROPPR at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 074° to WINDS, then on track 112° to cross KADDY at or above FL200, then on track 112° to PRFUM. Thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 194° to 2682, then direct JAKER, then on track 230° to cross ROPPR at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 074° to WINDS, then on track 112° to cross KADDY at or above FL200, then on track 112° to PRFUM. Thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct PIRMD, then on track 190° to cross ROPPR at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 074° to WINDS, then on track 112° to cross KADDY at or above FL200, then on track 112° to PRFUM. Thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct RBELL, then on track 190° to cross ROPPR at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 095° to cross HITME at or above 11000, then on track 074° to WINDS, then on track 112° to cross KADDY at or above FL200, then on track 112° to PRFUM. Thence. . . .

. . . .(transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (PRFUM4.DRK)

(SHEAD1.SHEAD) 17229

SHEAD ONE DEPARTURE (RNAV)

AL-662 (FAA)

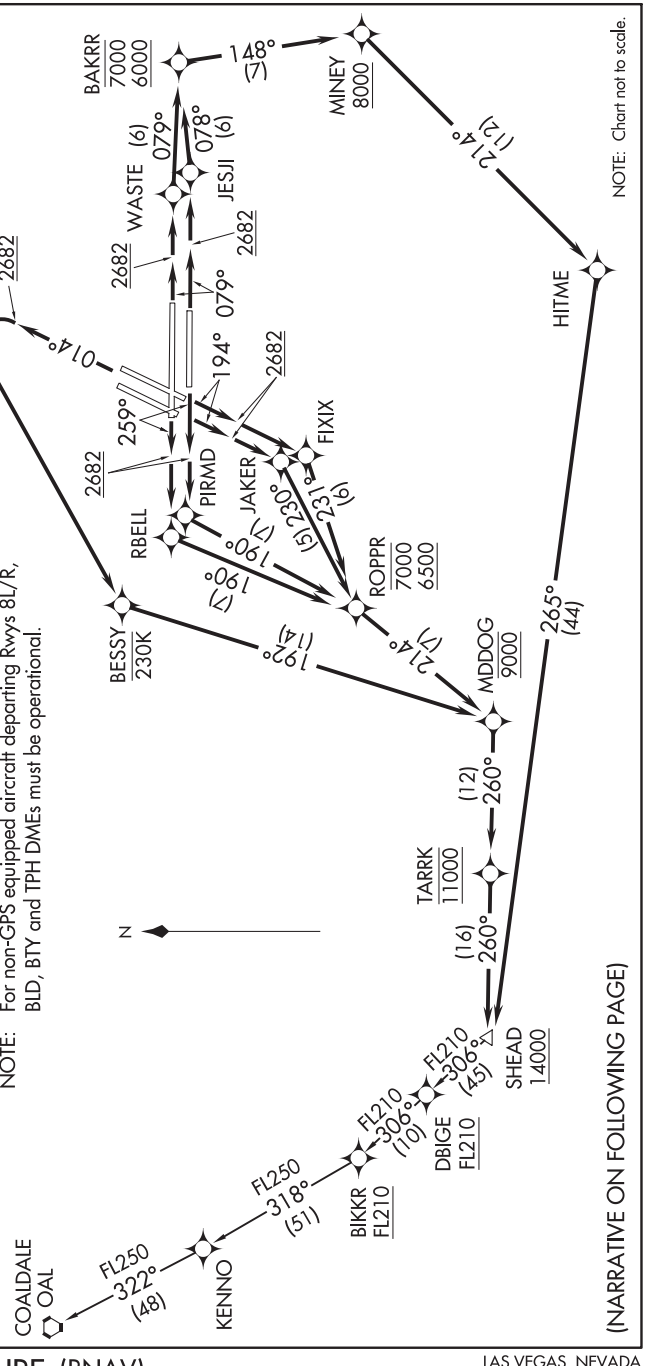
MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

D-ATIS 132.4
CLNC DEL 118.0
CPDLC
GND CON 121.1 270.8 (E of 1R/19L)
121.9 254.3 (W of 1R/19L)
LAS VEGAS TOWER 118.75 257.8 (Rwys 1L/19R, 1R/19L)
119.9 257.8 (Rwys 8L/26R, 8R/26L)
LAS VEGAS DEP CON 125.9 307.25

TOP ALTITUDE: FL190

TAKEOFF MINIMUMS
Rwys 1L/R: 1100-3 with minimum climb of 500′ per NM to 6000.
Rwys 8L/R: Standard with minimum climb of 400′ per NM to 8000.
Rwys 19L/R: Standard with minimum climb of 483′ per NM to 9000.
Rwys 26L/R: Standard with minimum climb of 470′ per NM to 9000.

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: For non-GPS equipped aircraft departing Rwys 1L/R, 19L/R, 26L/R, LSV, BLD, BTY and TPH DMEs must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 8L/R, BLD, BTY and TPH DMEs must be operational.



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 06 NOV 2020 to 31 DEC 2020

SHEAD ONE DEPARTURE (RNAV)

(SHEAD1.SHEAD) 17AUG17

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 014° to 2682, then left turn direct BESSY, then on track 192° to cross MDDOG at 9000, then on track 260° to cross TARRK at 11000, then on track 260° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 8L: Climb heading 079° to 2682, then direct WASTE, then on track 079° to cross BAKRR at or above 6000, at or below 7000, then on track 148° to cross MINEY at or above 8000, then on track 214° to HITME, then on track 265° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 8R: Climb heading 079° to 2682, then direct JESJI, then on track 078° to cross BAKRR at or above 6000, at or below 7000, then on track 148° to cross MINEY at or above 8000, then on track 214° to HITME, then on track 265° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 194° to 2682, then direct FIXIX, then on track 231° to cross ROPPR at or above 6500, at or below 7000, then on track 214° to cross MDDOG at 9000, then on track 260° to cross TARRK at 11000, then on track 260° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 194° to 2682, then direct JAKER, then on track 230° to cross ROPPR at or above 6500, at or below 7000, then on track 214° to cross MDDOG at 9000, then on track 260° to cross TARRK at 11000, then on track 260° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct PIRMD, then on track 190° to cross ROPPR at or above 6500, at or below 7000, then on track 214° to cross MDDOG at 9000, then on track 260° to cross TARRK at 11000, then on track 260° to cross SHEAD at or above 14000. Thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct RBELL, then on track 190° to cross ROPPR at or above 6500, at or below 7000, then on track 214° to cross MDDOG at 9000, then on track 260° to cross TARRK at 11000, then on track 260° to cross SHEAD at or above 14000. Thence. . . .

. . . .(Transition). Maintain FL190. Expect filed altitude 10 min after departure.

COALDALE TRANSITION (SHEAD1.OAL)

KENNO TRANSITION (SHEAD1.KENNO)

STAAV EIGHT DEPARTURE (RNAV)

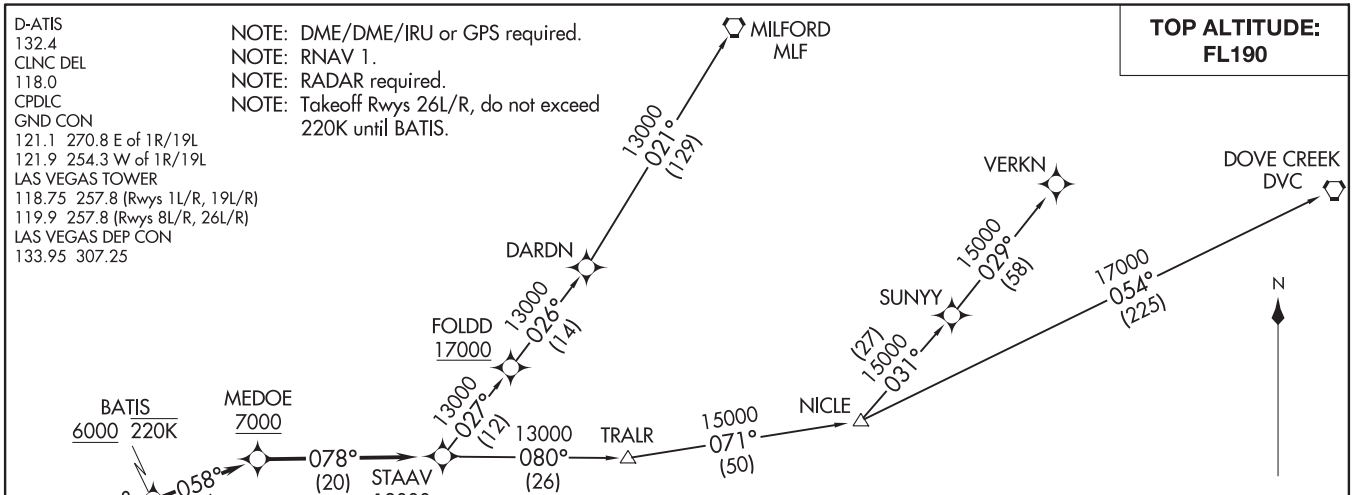
(STAAV8.STAAV) 17AUG17

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

D-ATIS
132.4
CLNC DEL
118.0
CPDLC
GND CON
121.1 270.8 E of 1R/19L
121.9 254.3 W of 1R/19L
LAS VEGAS TOWER
118.75 257.8 (Rwys 1L/R, 19L/R)
119.9 257.8 (Rwys 8L/R, 26L/R)
LAS VEGAS DEP CON
133.95 307.25

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: Takeoff Rwys 26L/R, do not exceed 220K until BATIS.

TOP ALTITUDE: FL190



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct POOLZ, then on track 337° to cross TOMIS at or above 5000, then on track 036° to cross BATIS at or above 6000, then on track 058° to cross MEDOE at or above 7000, then on track 078° to cross STAAV at or above 13000. Thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct LEELN, then on track 336° to cross TOMIS at or above 5000, then on track 036° to cross BATIS at or above 6000, then on track 058° to cross MEDOE at or above 7000, then on track 078° to cross STAAV at or above 13000. Thence. . . .

. . . .on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

DOVE CREEK TRANSITION (STAAV8.DVC)
MILFORD TRANSITION (STAAV8.MLF)
VERKN TRANSITION (STAAV8.VERKN)

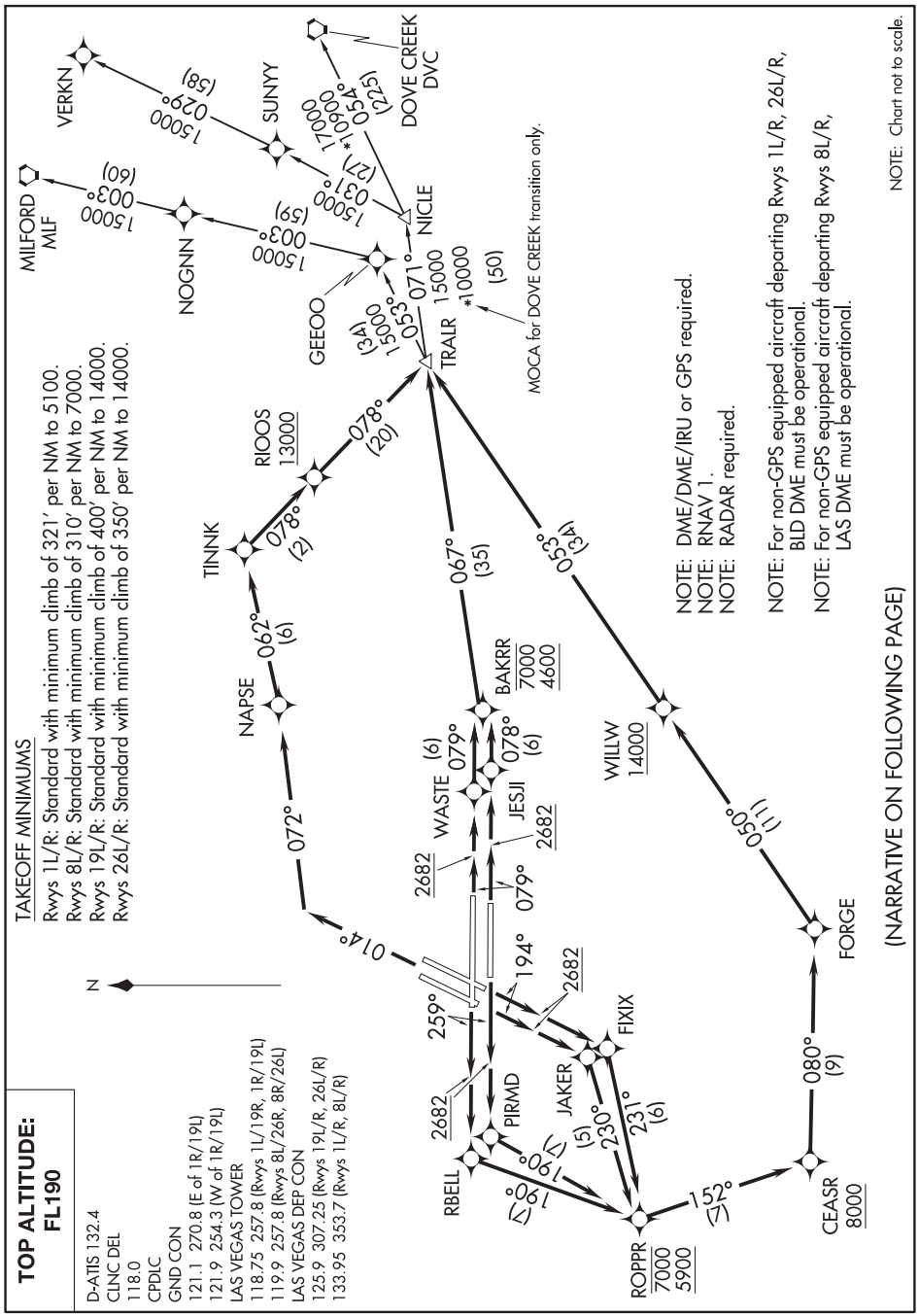
TAKEOFF MINIMUMS
Rwys 26L/26R: Standard with minimum climb of 313′ per NM to 4500.

NOTE: Chart not to scale.

(STAAV8.STAAV) 17229
STAAV EIGHT DEPARTURE (RNAV)

AL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA


TOP ALTITUDE: FL190
D-ATIS 132.4
CLNC DEL 118.0
CPDLC
GND CON
121.1 270.8 (E of 1R/19L)
121.9 254.3 (W of 1R/19L)
LAS VEGAS TOWER
118.75 257.8 (Rwys 1L/19R, 1R/19L)
119.9 257.8 (Rwys 8L/26R, 8R/26L)
LAS VEGAS DEP CON
125.9 307.25 (Rwys 19L/R, 26L/R)
133.95 353.7 (Rwys 1L/R, 8L/R)
N
TAKEOFF MINIMUMS
Rwys 1L/R: Standard with minimum climb of 321' per NM to 5100.
Rwys 8L/R: Standard with minimum climb of 310' per NM to 7000.
Rwys 19L/R: Standard with minimum climb of 400' per NM to 14000.
Rwys 26L/R: Standard with minimum climb of 350' per NM to 14000.
MILFORD MLF
VERKN
NOGNN
SUNYY
DOVE CREEK DVC
NICLE
GEEOO
TRALR
MOCA for DOVE CREEK transition only.
TINNK
RIOOS 13000
NAPSE
BAKRR 7000 4600
WASTE
JESJI
WILLW 14000
FIXIX
JAKER
PIRMD
RBELL
ROPPR 7000 5900
CEASR 8000
FORGE
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: For non-GPS equipped aircraft departing Rwys 1L/R, 26L/R, BLD DME must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 8L/R, LAS DME must be operational.
(NARRATIVE ON FOLLOWING PAGE)
NOTE: Chart not to scale.
SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L/R: Climb heading 014° to intercept course 072° to NAPSE, then on track 062° to TINNK, then on track 078° to cross RIOOS at or above 13000, then on track 078° to TRALR, thence. . . .

TAKEOFF RUNWAY 8L: Climb heading 079° to 2682, then direct WASTE, then on track 079° to cross BAKRR at or above 4600, at or below 7000, then on track 067° to TRALR, thence. . . .

TAKEOFF RUNWAY 8R: Climb heading 079° to 2682, then direct JESJI, then on track 078° to cross BAKRR at or above 4600, at or below 7000, then on track 067° to TRALR, thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 194° to 2682, then direct FIXIX, then on track 231° to cross ROPPR at or above 5900, at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 080° to FORGE, then on track 050° to cross WILLW at or above 14000, then on track 053° to TRALR, thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 194° to 2682, then direct JAKER, then on track 230° to cross ROPPR at or above 5900, at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 080° to FORGE, then on track 050° to cross WILLW at or above 14000, then on track 053° to TRALR, thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 259° to 2682, then direct PIRMD, then on track 190° to cross ROPPR at or above 5900, at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 080° to FORGE, then on track 050° to cross WILLW at or above 14000, then on track 053° to TRALR, thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 259° to 2682, then direct RBELL, then on track 190° to cross ROPPR at or above 5900, at or below 7000, then on track 152° to cross CEASR at or above 8000, then on track 080° to FORGE, then on track 050° to cross WILLW at or above 14000, then on track 053° to TRALR, thence. . . .

. . . . on (transition). Maintain FL190, expect filed altitude 10 minutes after departure.

DOVE CREEK TRANSITION (TRALR9.DVC)
MILFORD TRANSITION (TRALR9.MLF)
VERKN TRANSITION (TRALR9.VERKN)

LOC/DME I-HWG	APP CRS	Rwy ldg	4199
110.7	120°	TDZE	2189
Chan 44		Apt Elev	2205

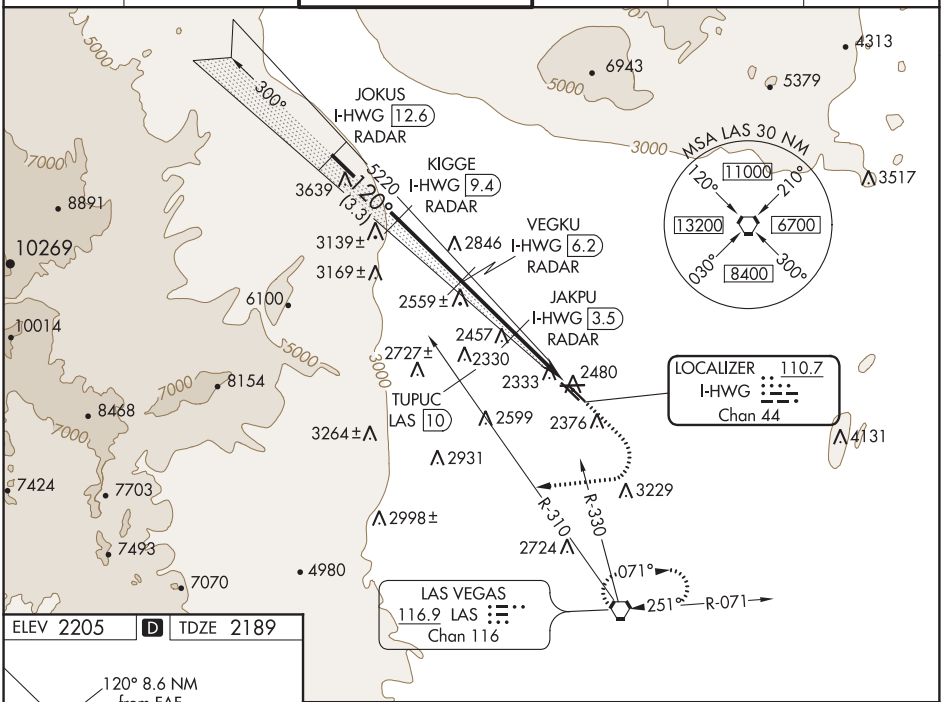
ILS or LOC RWY 12L
NORTH LAS VEGAS (VGT)

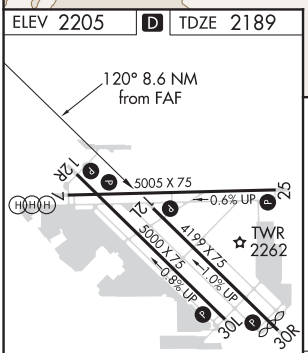
DME and RADAR required.

When local altimeter setting not received, use McCarran Intl altimeter setting and increase DA to 2478, and visibility Cats A/B ¼ mile; increase all MDA 40 feet. Rwy 12L helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600, then climbing right turn heading 250° to 6000, intercept LAS R-310 outbound to TUPUC/LAS 10 DME then turn right via LAS R-330 inbound to LAS VORTAC and hold.

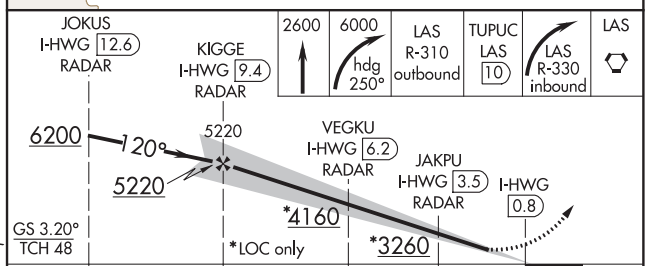
ATIS	LAS VEGAS APP CON	NORTH LAS VEGAS TOWER★	GND CON	CLNC DEL	UNICOM
118.05	119.4 360.85	125.7 (CTAF) L 360.75	121.7	124.0	122.95





REIL all Rwys L
MIRL all Rwys L

FAF to MAP 8.6 NM					
Knots	60	90	120	150	180
Min:Sec	8:36	5:44	4:18	3:26	2:52



CATEGORY	A	B	C	D
S-ILS 12L	2456-1	267 (300-1)	NA	
S-LOC 12L	2620-1	431 (500-1)	NA	
C CIRCLING	2720-1	515 (600-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA | AL-6970 (FAA) | 20086

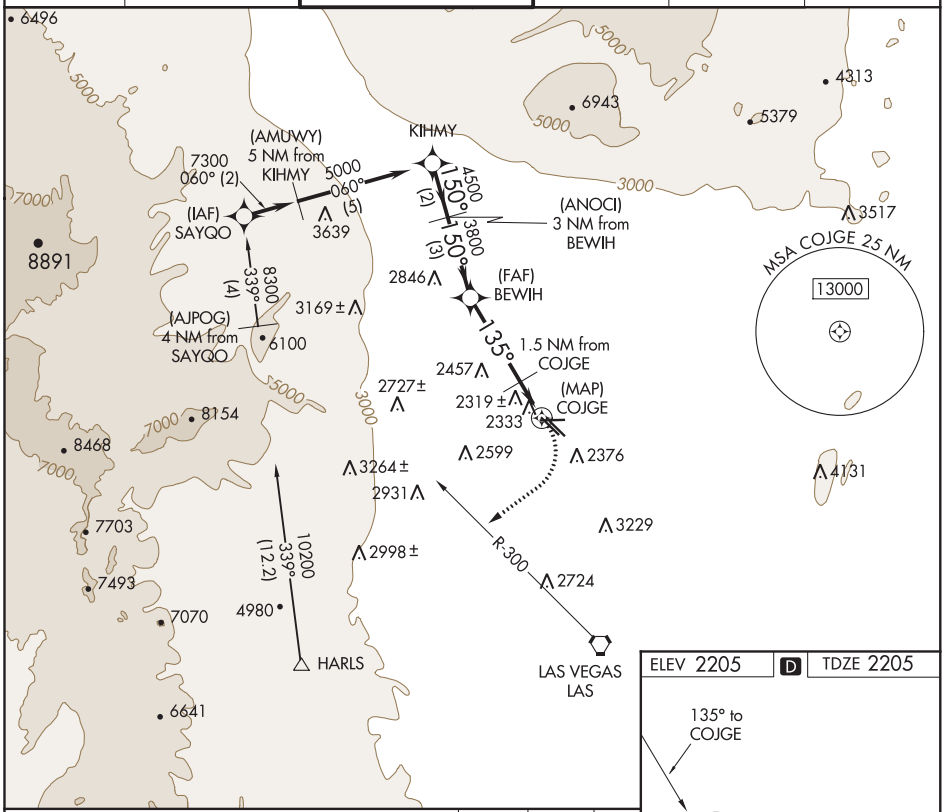
GPS RWY 12R
NORTH LAS VEGAS (VGT)

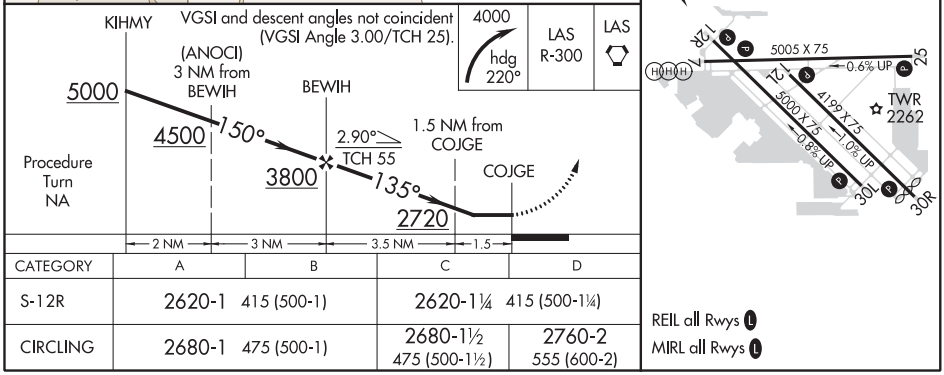
APP CRS	Rwy ldg	5000
135°	TDZE	2205
	Apt Elev	2205

T NA When local altimeter setting not received, use McCarran Intl altimeter setting and increase all MDA 40 feet and S-12R Cat D visibility ¼ mile. Circling to Rwy 12L-30R NA.

MISSED APPROACH: Climbing right turn to 4000 via heading 220° and LAS R-300 to LAS VORTAC.

ATIS	LAS VEGAS APP CON	NORTH LAS VEGAS TOWER★	GND CON	CLNC DEL	UNICOM
118.05	119.4 360.85	125.7 (CTAF) L 360.75	121.7	124.0	122.95





CATEGORY	A	B	C	D
S-12R	2620-1 415 (500-1)		2620-1¼ 415 (500-1¼)	
CIRCLING	2680-1 475 (500-1)		2680-1½ 475 (500-1½)	2760-2 555 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

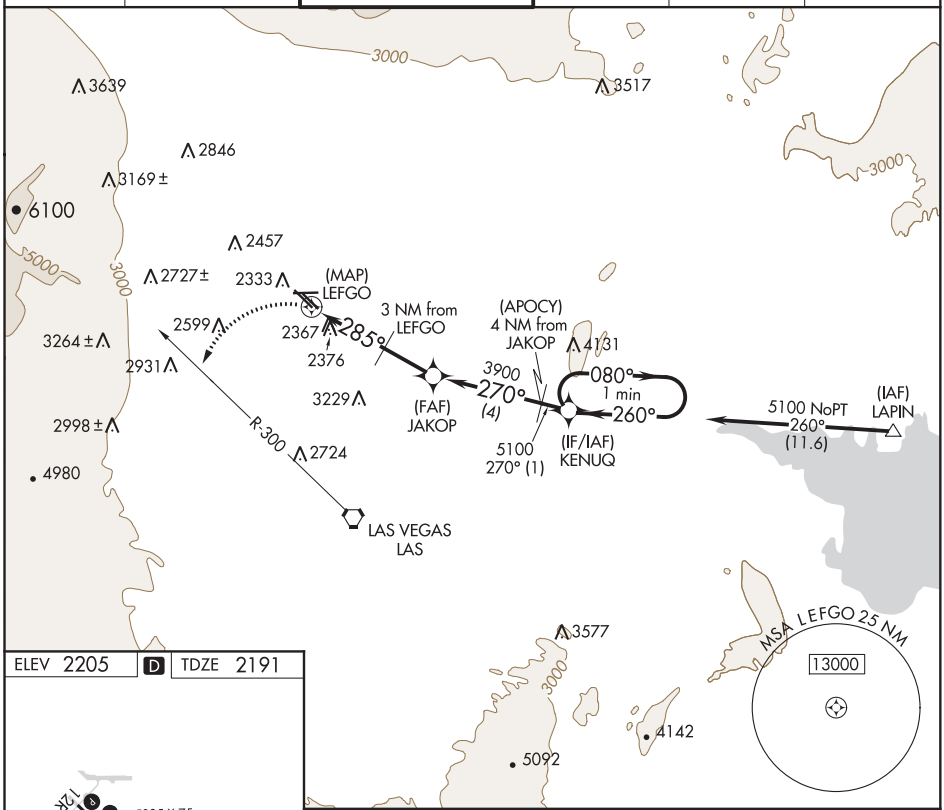
APP CRS	Rwy ldg	5000
285°	TDZE	2191
	Apt Elev	2205

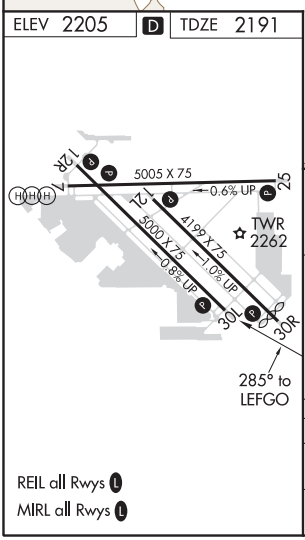
GPS RWY 30L
NORTH LAS VEGAS (VGT)

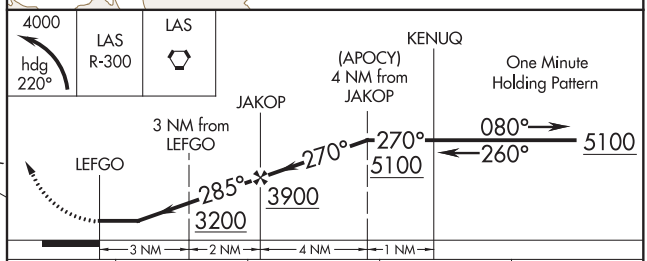
T A NA — When local altimeter setting not received, use McCarran Intl altimeter setting and increase all MDA 40 feet and S-30L Cats C/D visibility ¼ mile. Circling to Rwy 12L-30R NA.

MISSED APPROACH: Climbing left turn to 4000 via heading 220° and LAS R-300 to LAS VORTAC.

ATIS	LAS VEGAS APP CON	NORTH LAS VEGAS TOWER★	GND CON	CLNC DEL	UNICOM
118.05	119.4 360.85	125.7 (CTAF) L 360.75	121.7	124.0	122.95







CATEGORY	A	B	C	D
S-30L	2680-1	489 (500-1)	2680-1¼ 489 (500-1¼)	2680-1½ 489 (500-1½)
CIRCLING	2720-1	515 (600-1)	2720-1½ 515 (600-1½)	2760-2 555 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

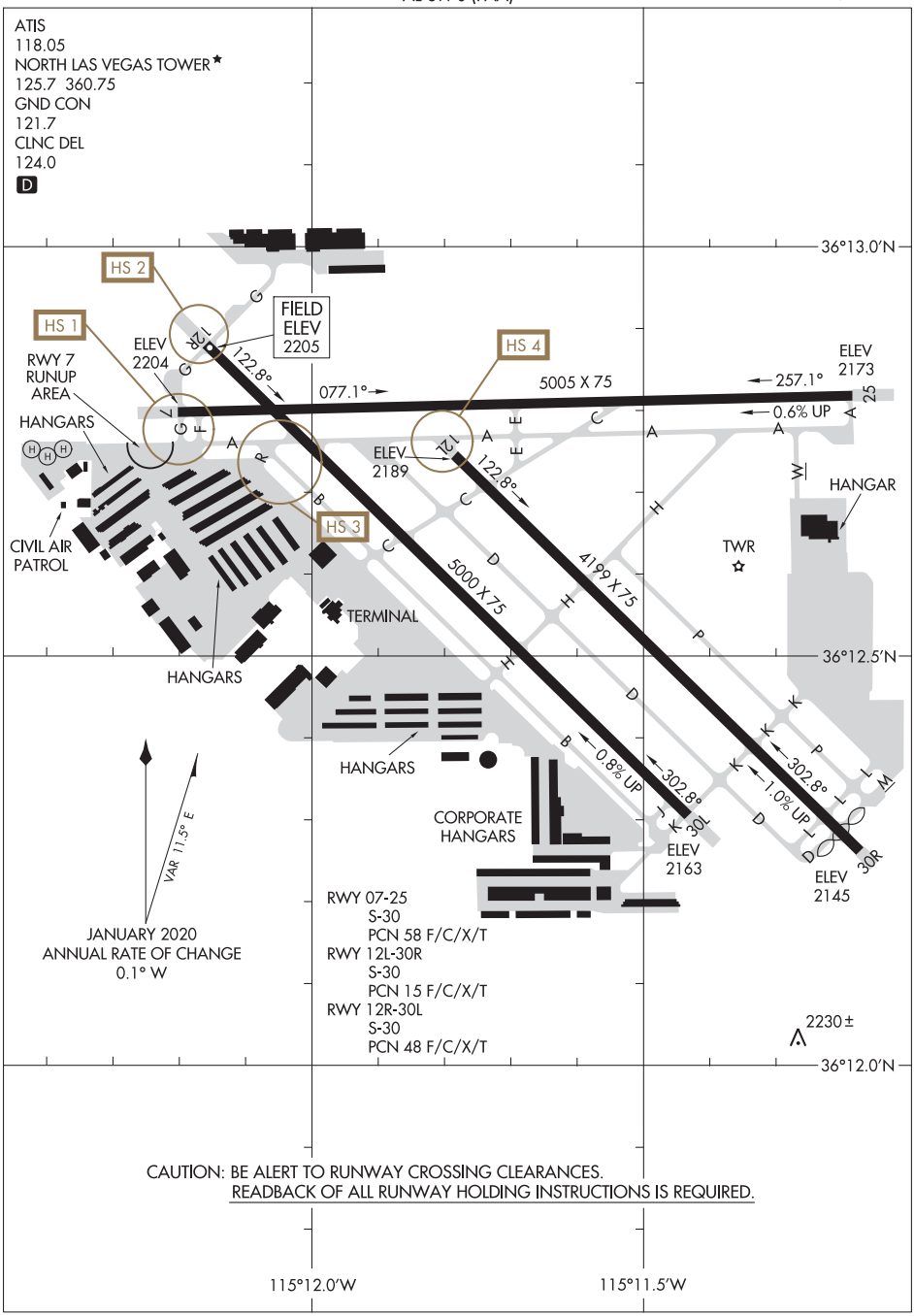
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-6970 (FAA)

NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
LAS VEGAS, NEVADA
NORTH LAS VEGAS (VGT)

BOULDER CITY ONE DEPARTURE (OBSTACLE)

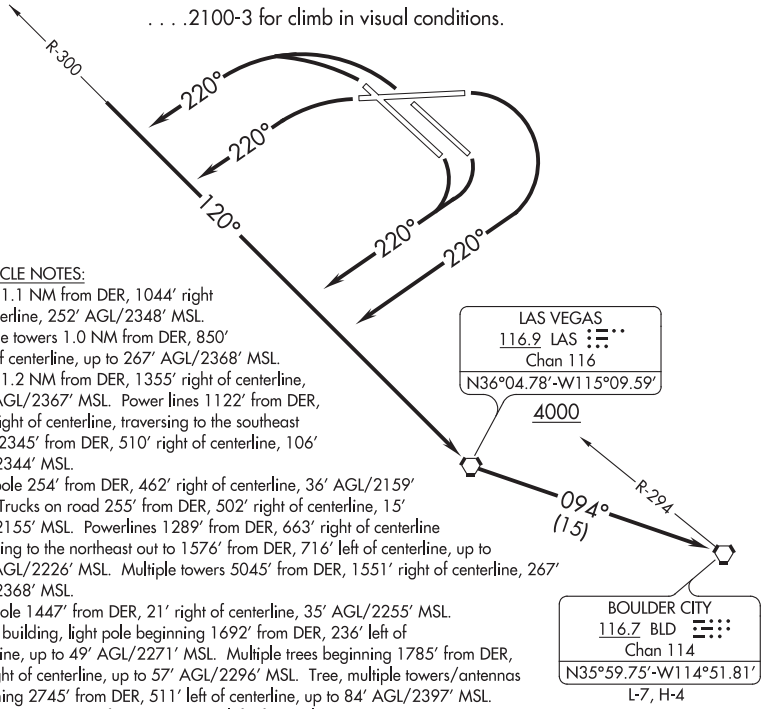
SL-6970 (FAA)

ATIS
118.05
GND CON
121.7
UNICOM
122.95
CTAF
125.7

TAKEOFF MINIMUMS:

Rwy 7: Standard with minimum climb of 339′ per NM to 3600 or. . . .
Rwy 12L: Standard with minimum climb of 393′ per NM to 3600 or. . . .
Rwy 12R: Standard with minimum climb of 373′ per NM to 3600 or. . . .
Rwy 25: Standard with minimum climb of 257′ per NM to 4500 or. . . .
Rwy 30R: Standard with minimum climb of 354′ per NM to 4700 or. . . .
Rwy 30L: Standard with minimum climb of 367′ per NM to 4700 or. . . .

. . . .2100-3 for climb in visual conditions.



TAKEOFF OBSTACLE NOTES:

Rwy 7: Tower 1.1 NM from DER, 1044′ right of centerline, 252′ AGL/2348′ MSL.

Rwy 12R: Multiple towers 1.0 NM from DER, 850′ right of centerline, up to 267′ AGL/2368′ MSL. Tower 1.2 NM from DER, 1355′ right of centerline, 270′ AGL/2367′ MSL. Power lines 1122′ from DER, 764′ right of centerline, traversing to the southeast out to 2345′ from DER, 510′ right of centerline, 106′ AGL/2344′ MSL.

Rwy 12L: Light pole 254′ from DER, 462′ right of centerline, 36′ AGL/2159′ MSL. Trucks on road 255′ from DER, 502′ right of centerline, 15′ AGL/2155′ MSL. Powerlines 1289′ from DER, 663′ right of centerline traversing to the northeast out to 1576′ from DER, 716′ left of centerline, up to 129′ AGL/2226′ MSL. Multiple towers 5045′ from DER, 1551′ right of centerline, 267′ AGL/2368′ MSL.

Rwy 25: Light pole 1447′ from DER, 21′ right of centerline, 35′ AGL/2255′ MSL.

Rwy 30L: Signs, building, light pole beginning 1692′ from DER, 236′ left of centerline, up to 49′ AGL/2271′ MSL. Multiple trees beginning 1785′ from DER, 78′ right of centerline, up to 57′ AGL/2296′ MSL. Tree, multiple towers/antennas beginning 2745′ from DER, 511′ left of centerline, up to 84′ AGL/2397′ MSL.

Rwy 30R: Antenna tower 4639′ from DER, 1736′ left of centerline, 84′ AGL/2327′ MSL. Anemometer 552′ from DER, 570′ left of centerline, 34′ AGL/2216′ MSL. Vent on building 1632′ from DER, 566′ right of centerline, 58′ AGL/2240′ MSL. Antenna on hangar 2012′ from DER, 195′ right of centerline, 61′ AGL/2247′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 7, 12 L/R: Turn right.

TAKEOFF RWYS 25, 30L/R: Turn left.

All aircraft climb to 6000 via heading 220° and LAS-300 to LAS VORTAC, cross LAS VORTAC at or above 4000. Continue climb via LAS VORTAC R-094 to BLD VORTAC.

RWYS 7, 12L/R, 25, 30L/R: For climb in visual conditions: cross North Las Vegas Airport at or above 4200 then via BLD VORTAC R-294 to BLD VORTAC.

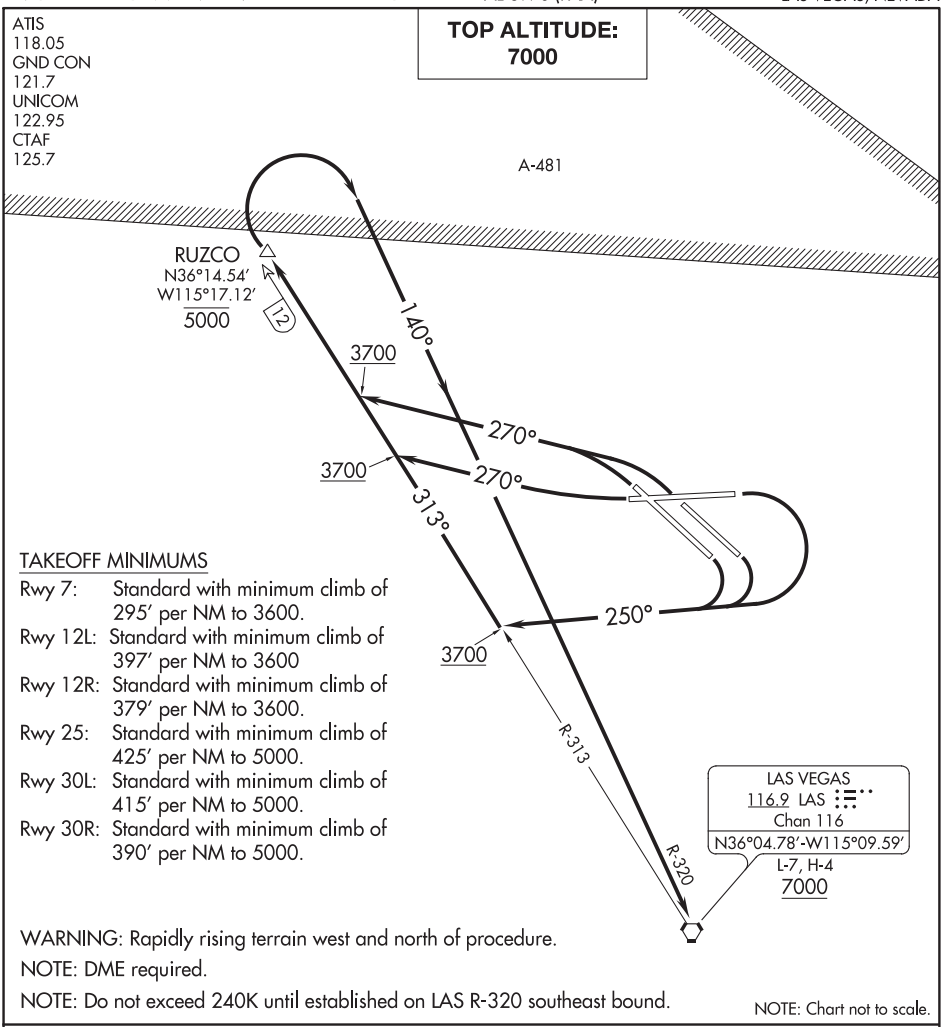
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(NOTWN5.LAS) 18312

NORTHTOWN FIVE DEPARTURE

AL-6970 (FAA)

NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA



TAKEOFF MINIMUMS

Rwy 7: Standard with minimum climb of 295′ per NM to 3600.
Rwy 12L: Standard with minimum climb of 397′ per NM to 3600
Rwy 12R: Standard with minimum climb of 379′ per NM to 3600.
Rwy 25: Standard with minimum climb of 425′ per NM to 5000.
Rwy 30L: Standard with minimum climb of 415′ per NM to 5000.
Rwy 30R: Standard with minimum climb of 390′ per NM to 5000.

WARNING: Rapidly rising terrain west and north of procedure.

NOTE: DME required.

NOTE: Do not exceed 240K until established on LAS R-320 southeast bound.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7, 12L/R: Climbing right turn on heading 250° to intercept LAS R-313 outbound at or above 3700, thence. . .

TAKEOFF RUNWAY 25: Climbing right turn on heading 270° to intercept LAS R-313 outbound at or above 3700, thence. . .

TAKEOFF RUNWAYS 30L/R: Climbing left turn on heading 270° to intercept LAS R-313 outbound at or above 3700, thence. . .

. . .on LAS R-313 outbound to cross RUZCO/LAS 12 DME at or below 5000, then climbing right turn to intercept LAS R-320 to LAS VORTAC. Cross LAS VORTAC at or above 7000.

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS or LOC/DME RWY 17
LOGAN-CACHE (LGU)

LOC/DME I-LGU	APP CRS	Rwy ldg	9010
109.15	172°	TDZE	4457
Chan 28 (Y)		Apt Elev	4457

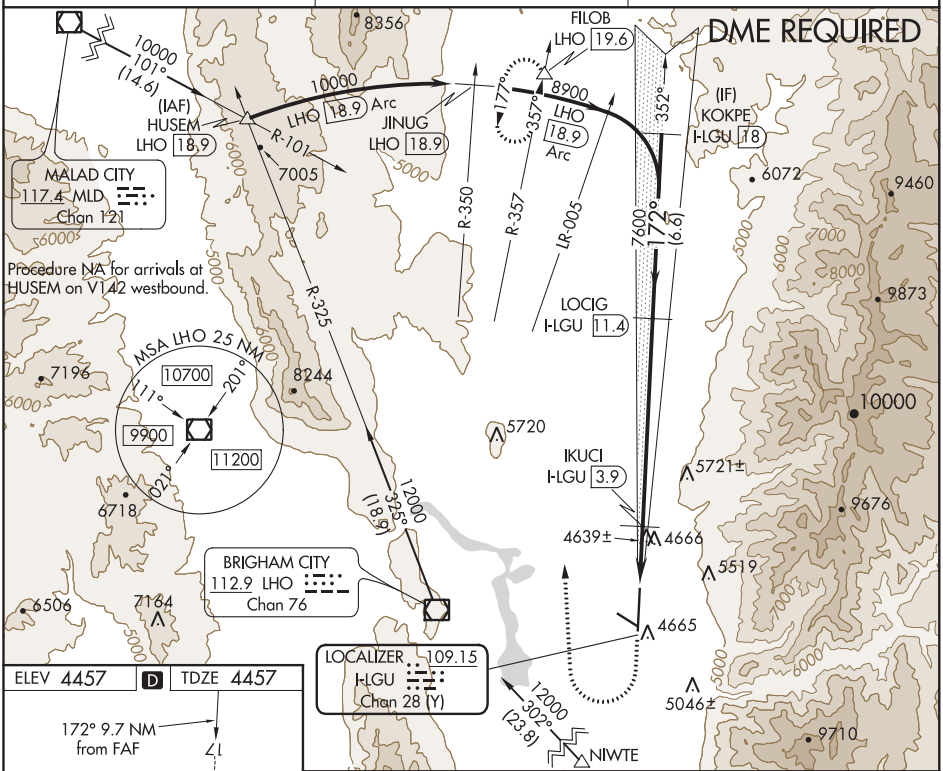
NA
-15°C

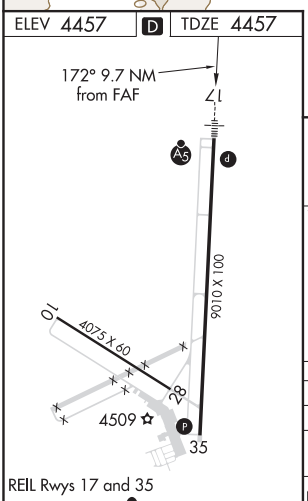
Circling NA east of Rwy 17-35
Night Landing: Rwy 10, 28 NA.

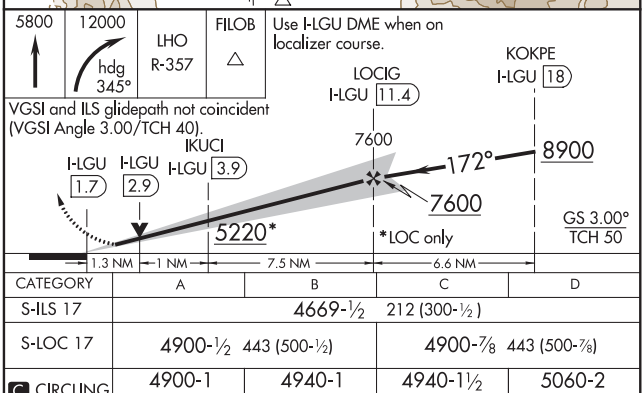
MALSR

MISSED APPROACH: Climb to 5800 then climbing right turn to 12000 on heading 345° and on LHO VOR/DME R-357 to FILOB INT/LHO 19.6 DME and hold, continue climb-in-hold to 12000.

ASOS	SALT LAKE CENTER	UNICOM
135.275	127.7 354.125	122.8 (CTAF)







CATEGORY	A	B	C	D
S-ILS 17	4669-½ 212 (300-½)			
S-LOC 17	4900-½ 443 (500-½)		4900-⅞ 443 (500-⅞)	
C CIRCLING	4900-1 443 (500-1)	4940-1 483 (500-1)	4940-1½ 483 (500-1½)	5060-2 603 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

LOGAN, UTAH | AL-663 (FAA) | 20086

RNAV (GPS) RWY 17
LOGAN-CACHE (LGU)

APP CRS	Rwy ldg	9010
172°	TDZE	4457
	Apt Elev	4457

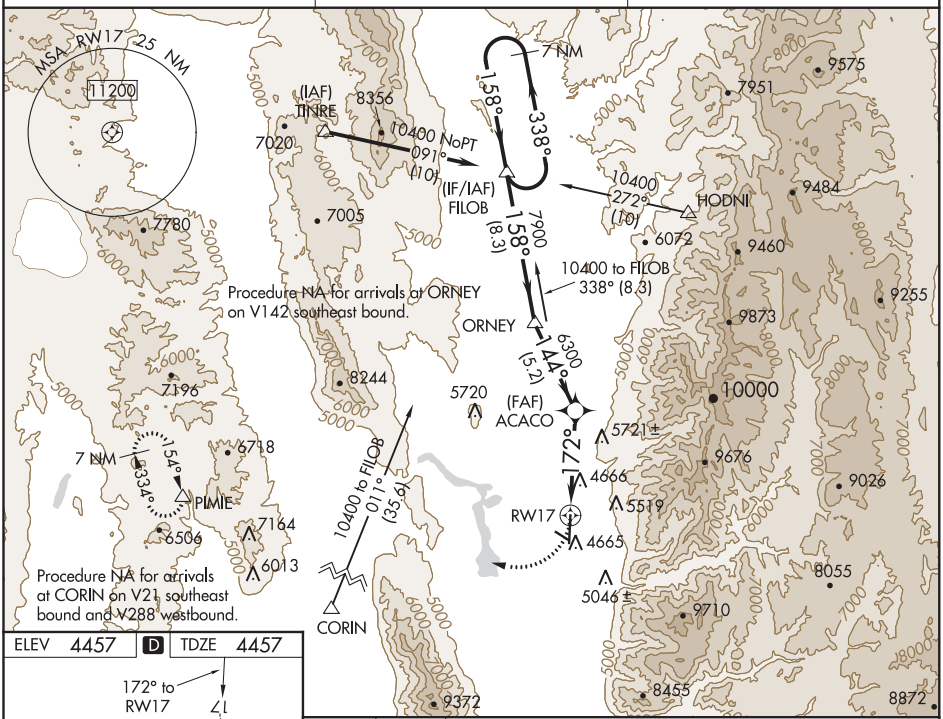
T
A
-15°C

DME/DME RNP-0.3 NA. Circling NA east of Rwy 17-35.
Night Landing: Rwy 10-28 NA.
Inop table does not apply to LNAV Cats C/D.
*Missed approach requires minimum climb of 310 feet per NM to 7700.

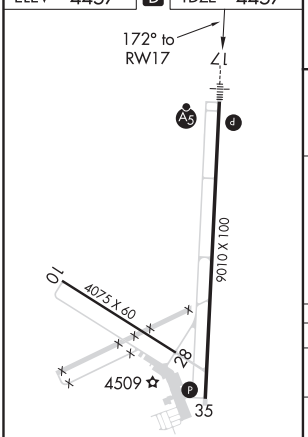
MALSR

MISSED APPROACH:
Climbing right turn to 10000 direct PIMIE and hold, continue climb-in-hold to 10000.

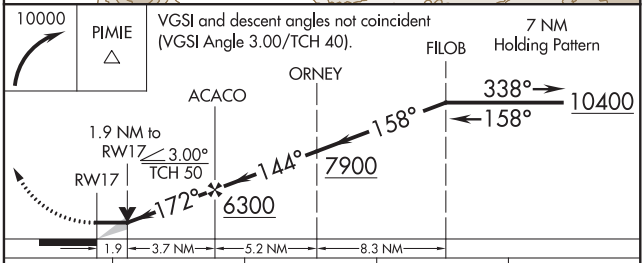
ASOS	SALT LAKE CENTER	UNICOM
135.275	127.7 354.125	122.8 (CTAF) L



ELEV 4457 | D | TDZE 4457



REIL Rwys 17 and 35
HIRL Rwy 17-35 L



CATEGORY	A	B	C	D
*LNAV MDA	5100-½	643 (700-½)	5100-1⅜	643 (700-1⅜)
LNAV MDA	5800-¾ 1343 (1400-¾)	5800-1 1343 (1400-1)	5800-3	1343 (1400-3)
C CIRCLING	5800-1¼ 1343 (1400-1¼)	5800-1½ 1343 (1400-1½)	5800-3	1343 (1400-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 57900 W35A	APP CRS 352°	Rwy ldg 9010 TDZE 4457 Apt Elev 4457

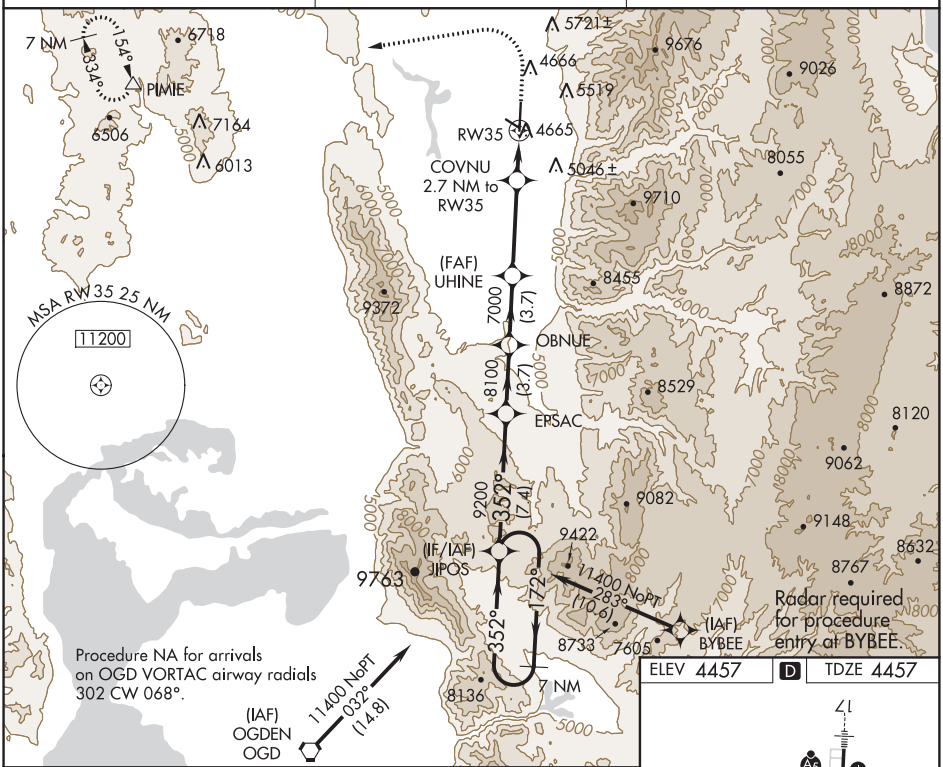
RNAV (GPS) RWY 35
LOGAN-CACHE (LGU)

T A -15°C

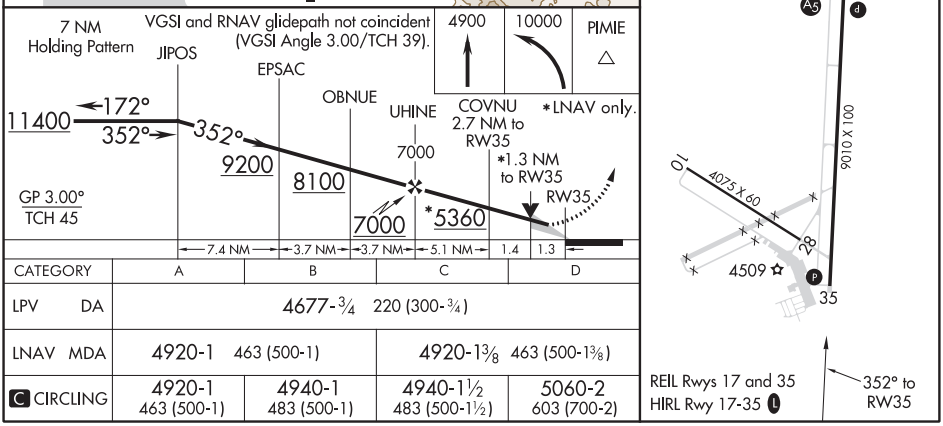
DME/DME RNP-0.3 NA. Circling NA east of Rwy 17-35. Night Landing: Rwy 10, 28 NA.

MISSED APPROACH: Climb to 4900 then climbing left turn to 10000 direct PIMIE and hold, continue climb-in-hold to 10000.

ASOS	SALT LAKE CENTER	UNICOM
135.275	127.7 354.125	122.8 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020



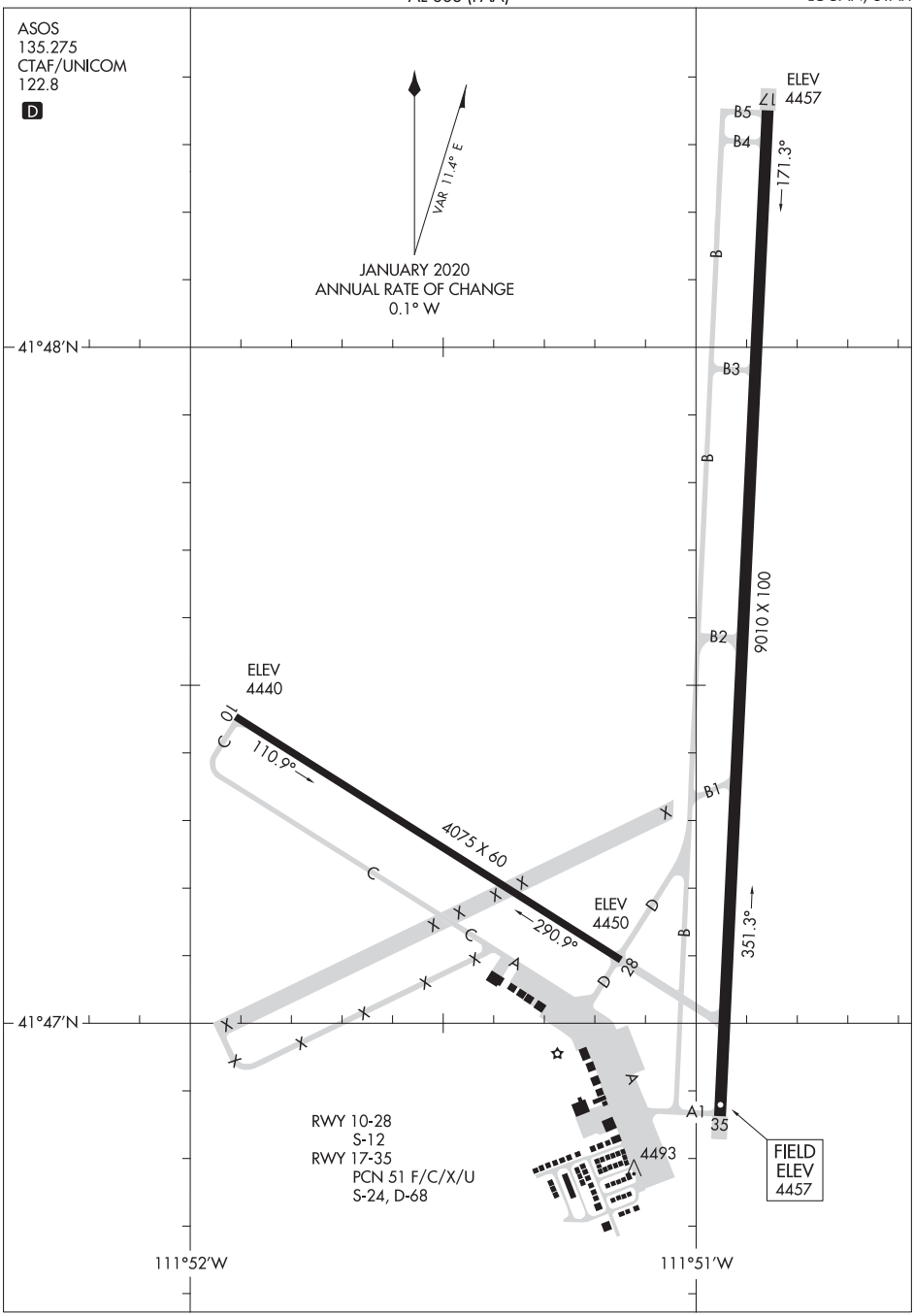
CATEGORY	A	B	C	D
LPV DA	4677-¾ 220 (300-¾)			
LNAV MDA	4920-1 463 (500-1)		4920-1⅜ 463 (500-1⅜)	
C CIRCLING	4920-1 463 (500-1)	4940-1 483 (500-1)	4940-1½ 483 (500-1½)	5060-2 603 (700-2)

20086

AIRPORT DIAGRAM

AL-663 (FAA)

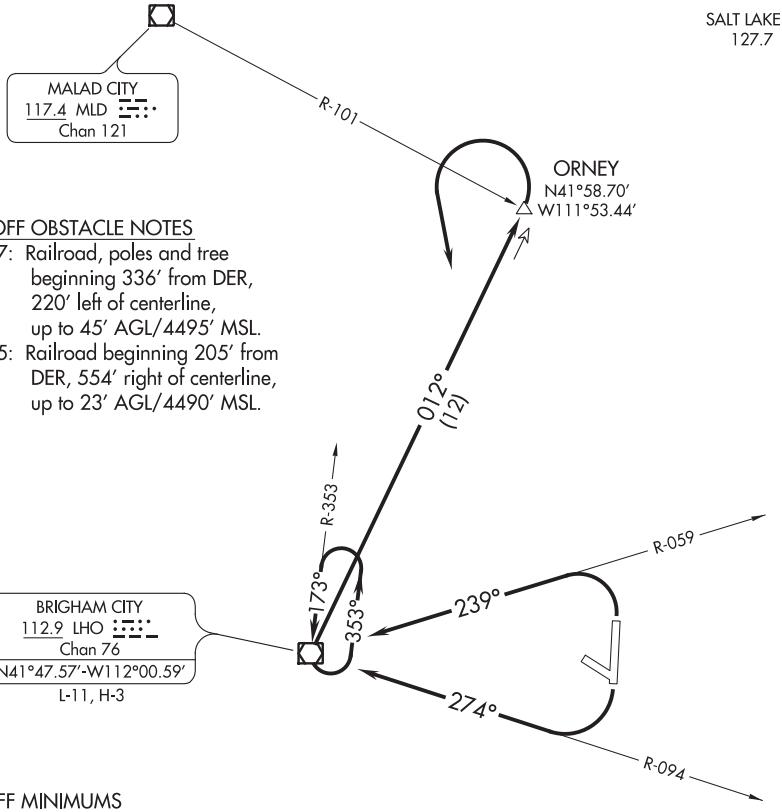
LOGAN-CACHE (LGU)
LOGAN, UTAH



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
LOGAN, UTAH
LOGAN-CACHE (LGU)



TAKEOFF OBSTACLE NOTES

Rwy 17: Railroad, poles and tree beginning 336′ from DER, 220′ left of centerline, up to 45′ AGL/4495′ MSL.

Rwy 35: Railroad beginning 205′ from DER, 554′ right of centerline, up to 23′ AGL/4490′ MSL.

TAKEOFF MINIMUMS

Rwys 10, 28: NA-obstacles.

Rwy 17: Standard with minimum climb of 276′ per NM to 7100′, or 4700-3 for climb in visual conditions.

Rwy 35: Standard with minimum climb of 274′ per NM to 9500′, or 4700-3 for climb in visual conditions.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17: Climbing right turn to 12000 via LHO VOR/DME R-094 to LHO VOR/DME and right turn via LHO R-012 to ORNEY INT/LHO 12 DME and left turn via LHO R-012 to LHO VOR/DME, thence . . . or for climb in visual conditions, cross Logan-Cache Airport at or above 9000, climb to 12000 via LHO R-077 to LHO VOR/DME, thence . . .

TAKEOFF RUNWAY 35: Climbing left turn to 12000 via LHO VOR/DME R-059 to LHO VOR/DME and right turn via LHO R-012 to ORNEY INT/LHO 12 DME and left turn via LHO R-012 to LHO VOR/DME, thence . . . or for climb in visual conditions, cross Logan-Cache Airport at or above 9000, climb to 12000 via LHO R-077 to LHO VOR/DME, thence . . .

. . . continue climbing in LHO VOR/DME holding pattern to 12000 before proceeding on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

LOVELOCK, NEVADA | AL-941 (FAA) | 19227

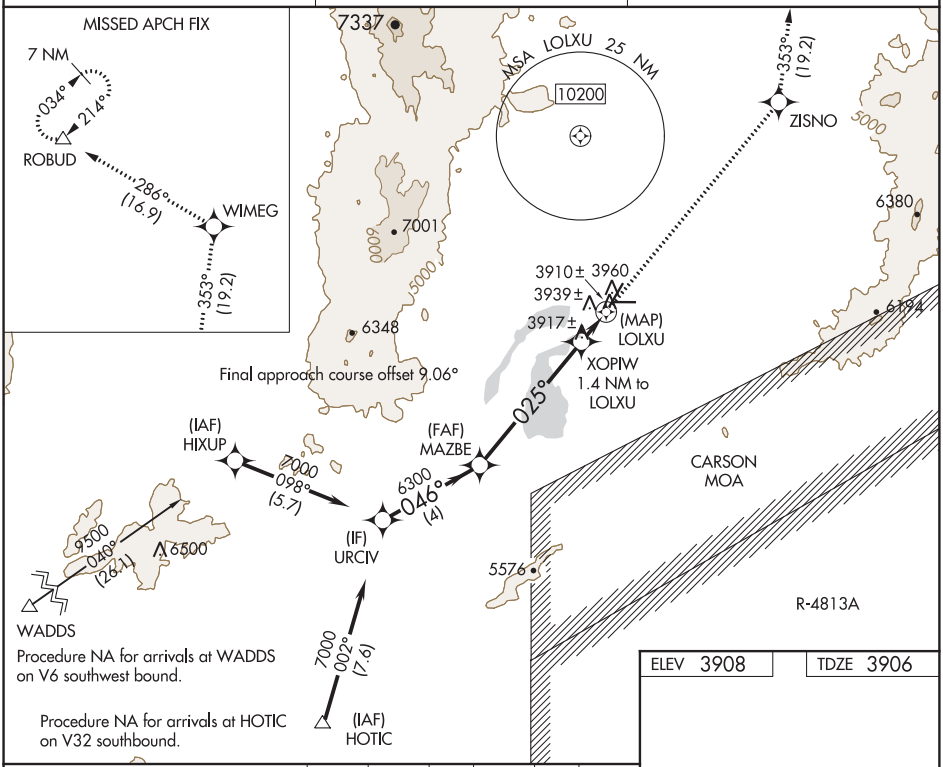
WAAS CH 72840 W02A	APP CRS 025°	Rwy ldg 5529 TDZE 3906 Apt Elev 3908

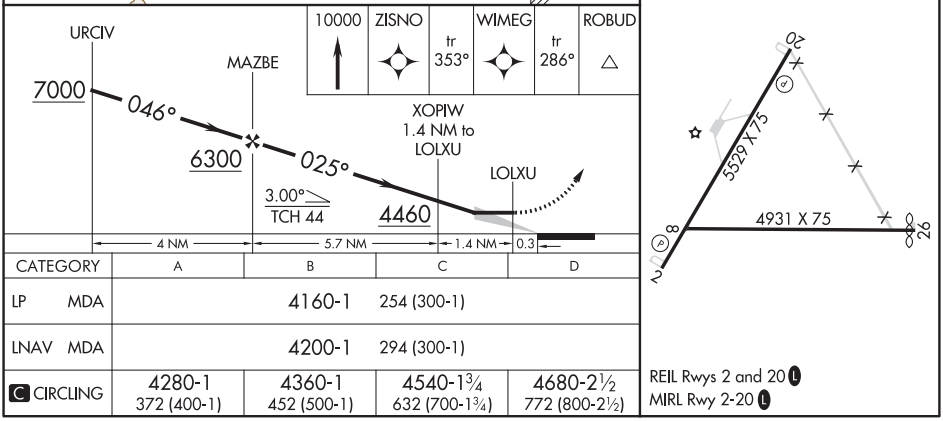
RNAV (GPS) RWY 2
DERBY FIELD (LOL)

Circling NA northwest of Rwy 2-20.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 10000 direct ZISNO and on track 353° to WIMEG and on track 286° to ROBUD and hold, continue climb-in-hold to 10000.

ASOS	OAKLAND CENTER	UNICOM
120.675	128.8 285.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	4160-1 254 (300-1)			
LNAV MDA	4200-1 294 (300-1)			
C CIRCLING	4280-1 372 (400-1)	4360-1 452 (500-1)	4540-1¾ 632 (700-1¾)	4680-2½ 772 (800-2½)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

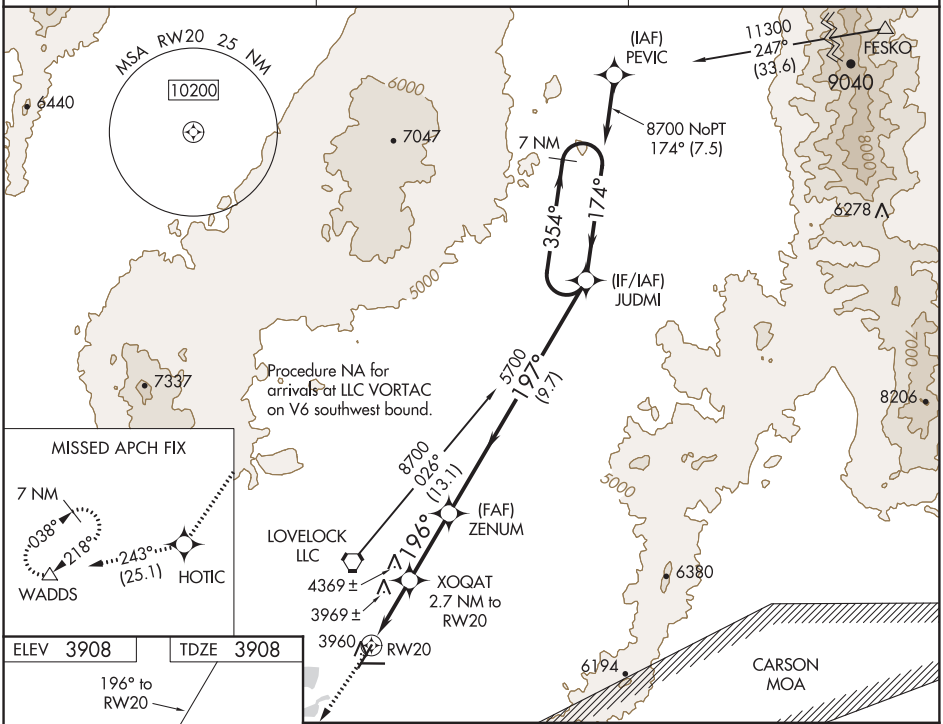
WAAS CH 78240 W20A	APP CRS 196°	Rwy ldg 5529 TDZE 3908 Apt Elev 3908

RNAV (GPS) RWY 20
DERBY FIELD (LOL)

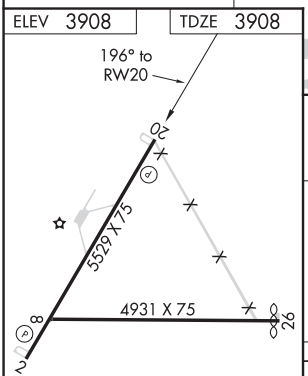
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 52°C (127°F). Circling NA northwest of Rwy 2-20. DME/DME RNP-0.3 NA.

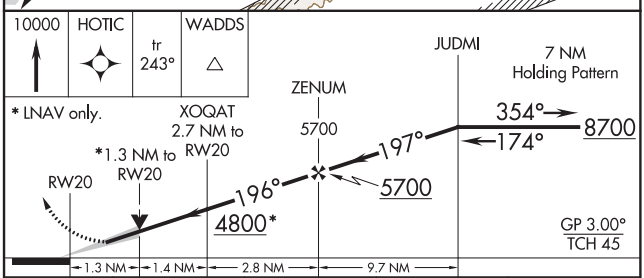
MISSED APPROACH: Climb to 10000 direct HOTIC and on track 243° to WADDS and hold.

ASOS	OAKLAND CENTER	UNICOM
120.675	128.8 285.5	122.8 (CTAF) L



ELEV 3908 TDZE 3908





CATEGORY	A	B	C	D
LPV DA	4158-1	250 (300-1)		
LNAV/VNAV DA	4249-1⅛	341 (400-1⅛)		
LNAV MDA	4360-1 452 (500-1)		4360-1⅜	452 (500-1⅜)
C CIRCLING	4360-1	452 (500-1)	4540-1¾ 632 (700-1¾)	4680-2½ 772 (800-2½)

REIL Rwys 2 and 20 L
MIRL Rwy 2-20 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LOVELOCK, NEVADA | AL-941 (FAA) | 20310

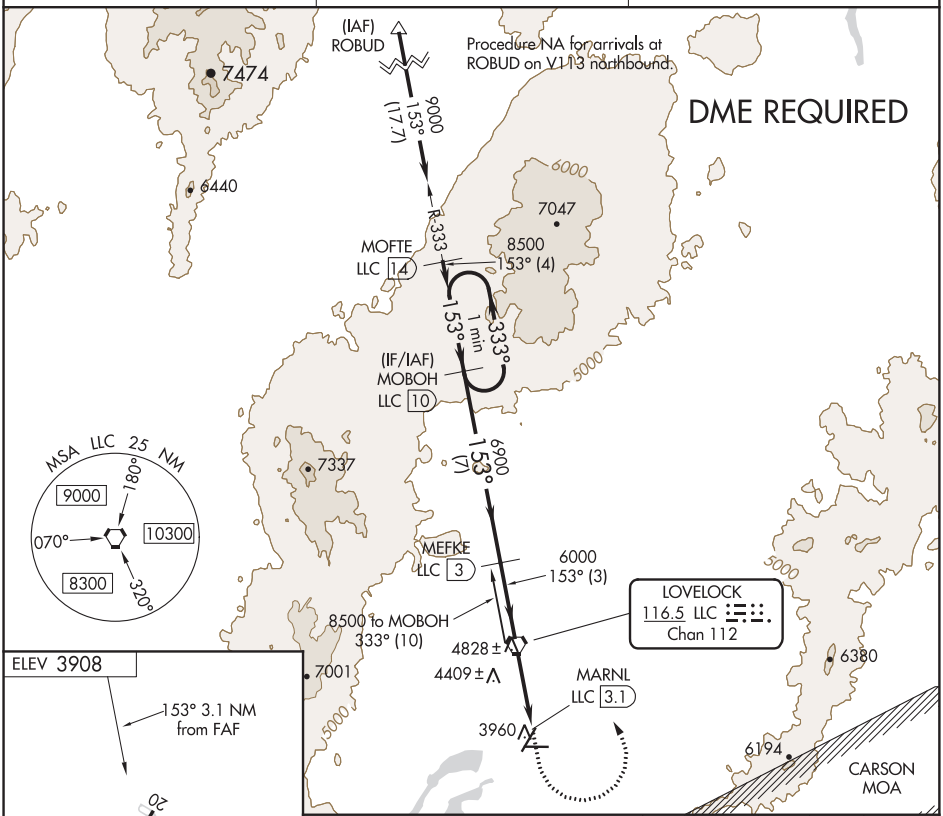
VORTAC LLC 116.5 Chan 112	APP CRS 153°	Rwy ldg N/A TDZE N/A Apt Elev 3908

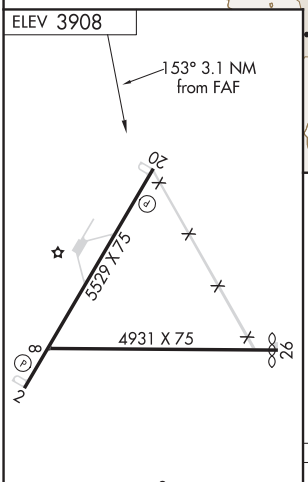
VOR-A
DERBY FIELD (LOL)

Circling NA northwest of Rwy 2-20.
DME required.

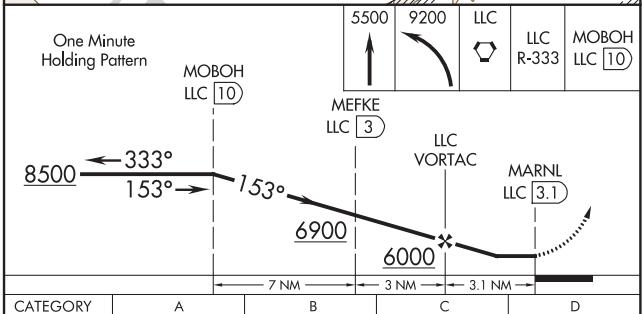
MISSED APPROACH: Climb to 5500 then climbing left turn to 9200 direct LLC VORTAC and on LLC VORTAC R-333 to MOBOH/LLC 10 DME and hold, continue climb-in-hold to 9200.

ASOS	OAKLAND CENTER	UNICOM
120.675	128.8 285.5	122.8 (CTAF) L





REIL Rwys 2 and 20 L
MIRL Rwy 2-20 L



CATEGORY	A	B	C	D
C CIRCLING	4800-1¼	892 (900-1¼)	4800-2¾ 892 (900-2¾)	4860-3 952 (1000-3)

LOVELOCK, NEVADA
Amdt 1 14SEP17

40°04′N-118°34′W

DERBY FIELD (LOL)
VOR-A

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 65839 W03A	APP CRS 034°	Rwy ldg 5021 TDZE 5503 Apt Elev 5516

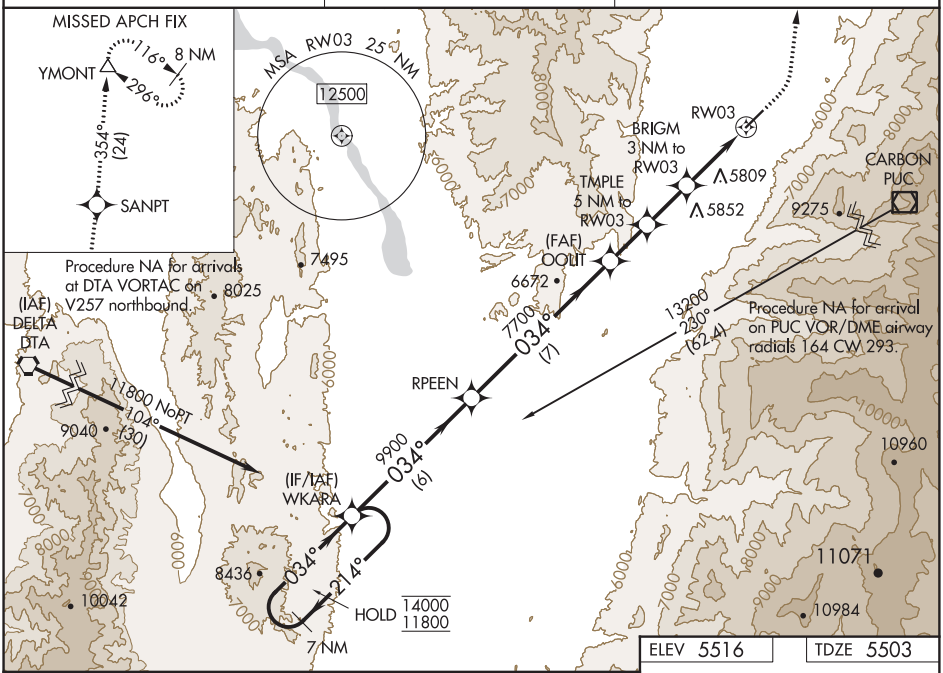
RNAV (GPS) RWY 3
MANTI-EPHRAIM (41U)

RNP APCH.

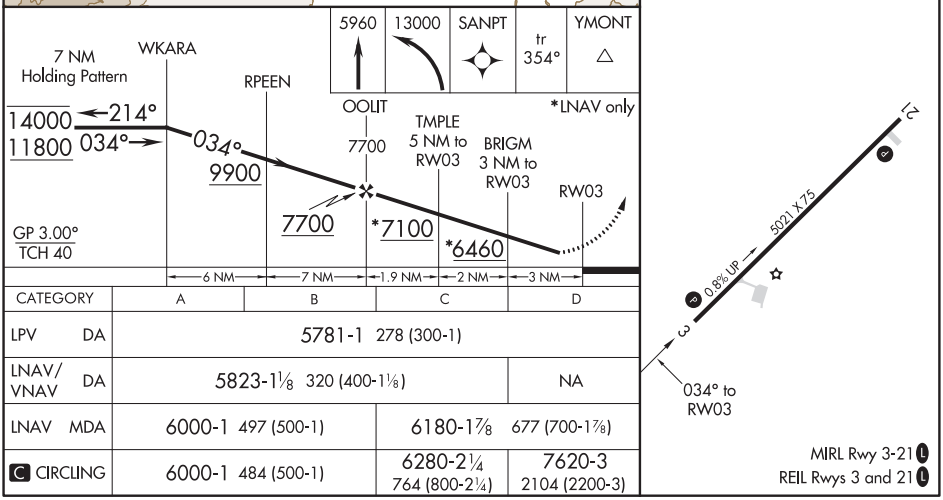
Circling NA southeast of Rwy 3-21. Procedure NA at night. Rwy 3 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C or above 54°C. When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 5960 then climbing left turn to 13000 direct SANPT and on track 354° direct YMONT and hold.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.025	133.6 296.25	122.8 (CTAF)



ELEV 5516 TDZE 5503



CATEGORY	A	B	C	D
LPV DA	5781-1 278 (300-1)			
LNAV/VNAV DA	5823-1⅛ 320 (400-1⅛)			NA
LNAV MDA	6000-1 497 (500-1)		6180-1⅞ 677 (700-1⅞)	
C CIRCLING	6000-1 484 (500-1)		6280-2¼ 764 (800-2¼)	7620-3 2104 (2200-3)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

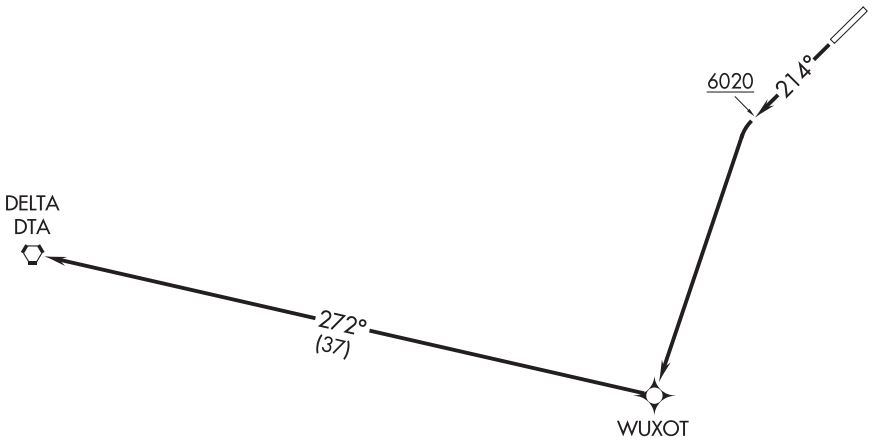
(WUXOT1.DTA) 17173 AL-10960 (FAA)

WUXOT ONE DEPARTURE (OBSTACLE) (RNAV)

MANTI-EPHRAIM (41U)
MANTI, UTAH

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3PT
120.025
SALT LAKE CENTER
133.6 269.25
CTAF
122.8



NOTE: RNAV-1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 21: Standard with minimum climb of 300′ per NM to 7300.

TAKEOFFF OBSTACLE NOTES

Rwy 21: Vehicles on road 67′ from DER, 518′ right of centerline, up to 5480′ MSL.
Vehicles on road beginning 108′ from DER, left and right of centerline, up to 5493′ MSL.
Tree 996′ from DER, 437′ right of centerline, 62′ AGL/5519′ MSL.
Tree 1122′ from DER, 550′ right of centerline, 82′ AGL/5536′ MSL.
Tree 1313′ from DER, 748′ left of centerline, 65′ AGL/5531′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

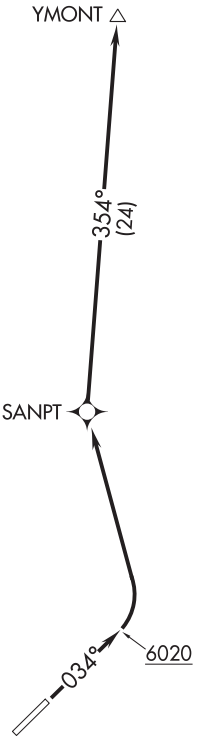
TAKEOFF RUNWAY 21: Climb heading 214° to 6020 then climbing left turn to 10300 direct WUXOT and on track 272° to DTA VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020

YMONT ONE DEPARTURE (OBSTACLE) (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3PT
120.025
SALT LAKE CENTER
133.6 296.25
CTAF
122.8



NOTE: RNAV-1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 340′ per NM to 7000.

TAKEOFF OBSTACLE NOTES

Rwy 3: Rising terrain 7′ from DER, left and right of centerline, up to 5517′ MSL.
Rising terrain 48′ from DER, 324′ right of centerline, 5522′ MSL.
Vehicles on road beginning 115′ from DER, 522′ left of centerline, up to 5526′ MSL.
Vehicles on road and rising terrain beginning 122′ from DER, 212′ right of centerline, up to 5539′ MSL.
Vehicles on road beginning 169′ from DER, 24′ left of centerline, up to 5537′ MSL.
Vehicles on road and rising terrain beginning 225′ from DER, 273′ right of centerline, up to 5543′ MSL.
Trees, bushes, poles and vehicles on road beginning 552′ from DER, 40′ right of centerline, up to 39′ AGL/5568′ MSL.
Pole 1710′ from DER, 630′ right of centerline, 5573′ MSL.
Communication tower 1.9 NM from DER, 3176′ right of centerline, 124′ AGL/5851′ MSL.
Pole 2 NM from DER, 3612′ right of centerline, 5854′ MSL.
Pole 2.1 NM from DER, 3970′ right of centerline, 30′ AGL/5900′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 034° to 6020 then climbing left turn to 13000 direct SANPT then on track 354° to YMONT.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

MARANA, ARIZONA | AL-10213 (FAA) | 20198

APP CRS	Rwy ldg	3398
033°	TDZE	2026
	Apt Elev	2032

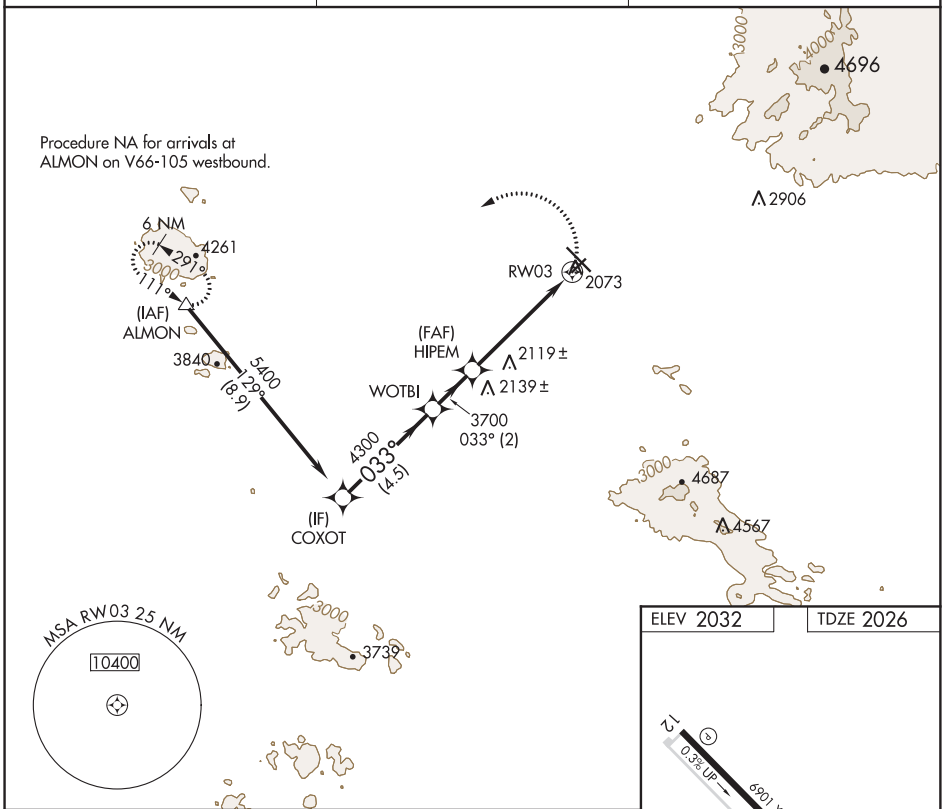
RNAV (GPS) RWY 3
MARANA RGNL (AVQ)

RNP APCH.

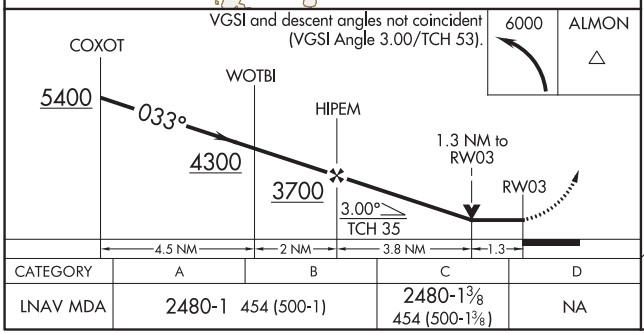
VDP NA when using Ryan Field altimeter setting. Rwy 3 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet and LNAV Cat C visibility ¼ SM.

MISSED APPROACH: Climbing left turn to 6000 direct ALMON and hold, continue climb-in-hold to 6000.

AWOS-3	TUCSON APP CON	UNICOM
118.375	119.4 318.1	123.0 (CTAF) L

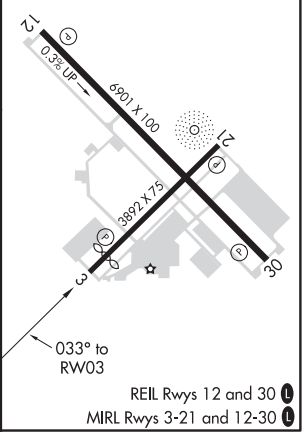


SW-4, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
LNAV MDA	2480-1 454 (500-1)		2480-1⅜ 454 (500-1⅜)	NA

ELEV 2032 | TDZE 2026



REIL Rwys 12 and 30 L
MIRL Rwys 3-21 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

MARANA, ARIZONA
Orig-C 15AUG19

32°25′N-111°13′W

MARANA RGNL (AVQ)
RNAV (GPS) RWY 3

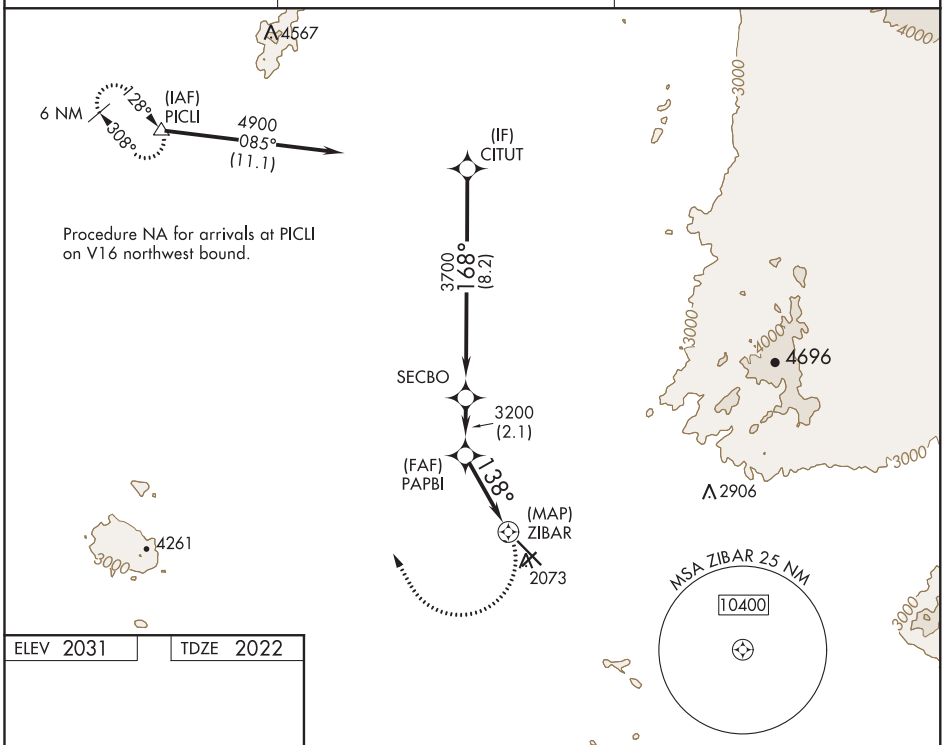
WAAS CH 58324 W12A	APP CRS 138°	Rwy ldg 6901 TDZE 2022 Apt Elev 2031

RNAV (GPS) RWY 12
MARANA RGNL (AVQ)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDA 100 feet, increase all Cat C visibility ¼ mile.

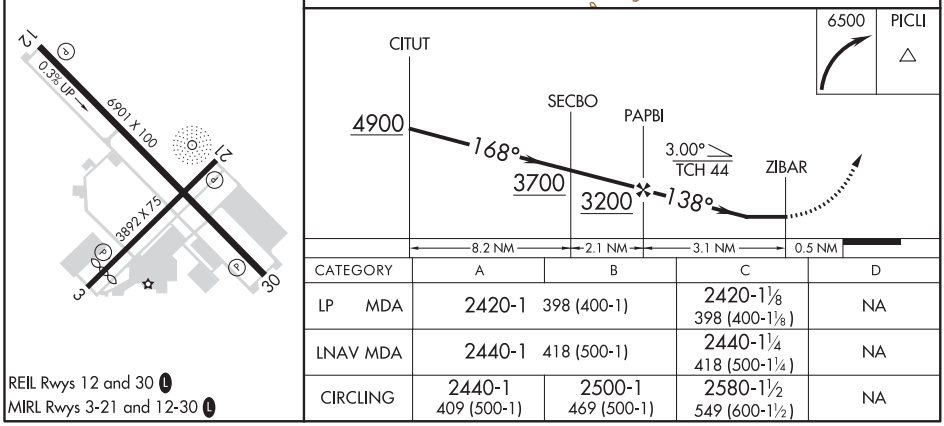
MISSED APPROACH: Climbing right turn to 6500 direct PICLI and hold, continue climb-in-hold to 6500.

AWOS-3	TUCSON APP CON	UNICOM
118.375	119.4 318.1	123.0 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 2031 TDZE 2022



CATEGORY	A	B	C	D
LP MDA	2420-1	398 (400-1)	2420-1⅛ 398 (400-1⅛)	NA
LNAV MDA	2440-1	418 (500-1)	2440-1¼ 418 (500-1¼)	NA
CIRCLING	2440-1 409 (500-1)	2500-1 469 (500-1)	2580-1½ 549 (600-1½)	NA

REIL Rwys 12 and 30 L
MIRL Rwys 3-21 and 12-30 L

MARANA, ARIZONA | AL-10213 (FAA) | 20198

RNAV (GPS) RWY 21
MARANA RGNL (AVQ)

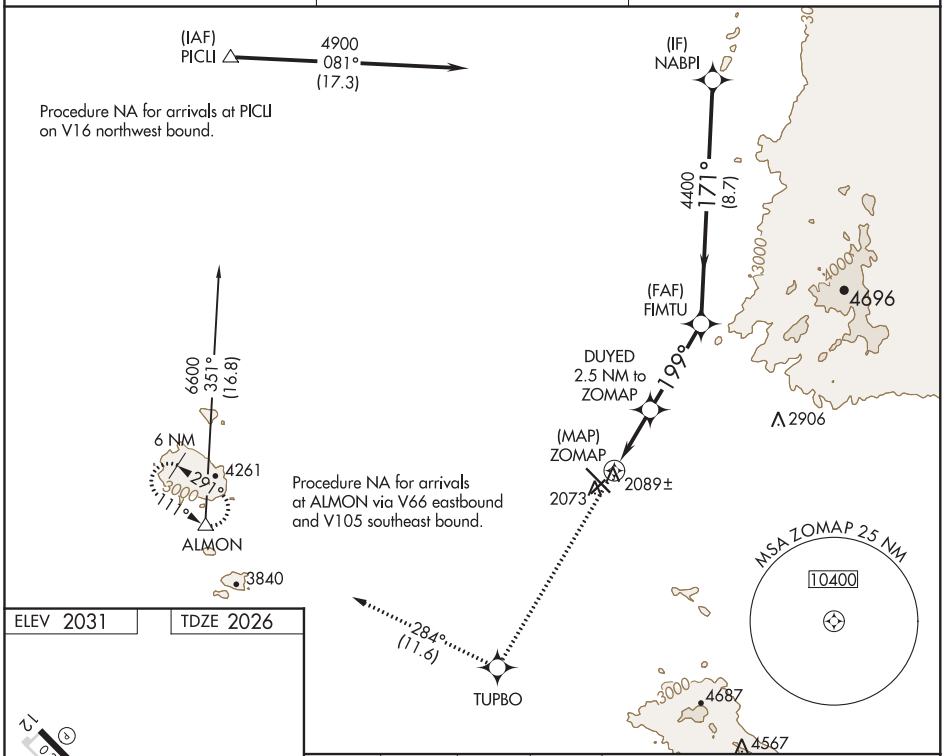
WAAS CH 56325 W21A	APP CRS 199°	Rwy ldg 3892 TDZE 2026 Apt Elev 2031

RNP APCH.

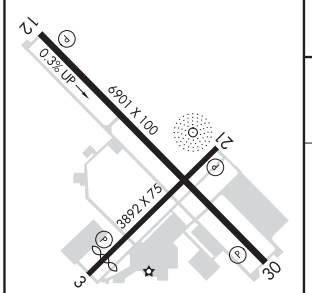
T NA Rwy 21 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet, increase LP Cat C visibility ⅛ SM and increase LNAV Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 6700 direct TUPBO and on track 284° to ALMON and hold, continue climb-in-hold 6700.

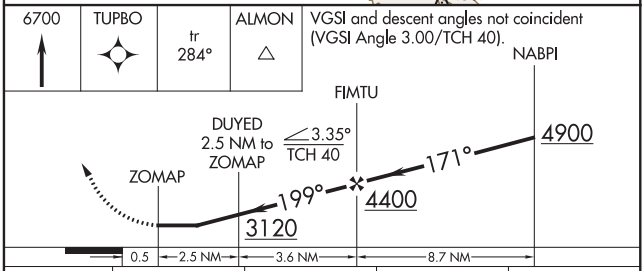
AWOS-3	TUCSON APP CON	UNICOM
118.375	119.4 318.1	123.0 (CTAF) L



ELEV 2031 | TDZE 2026



REIL Rwys 12 and 30 L
MIRL Rwys 3-21 and 12-30 L



CATEGORY	A	B	C	D
LP MDA	2340-1 314 (400-1)			NA
LNAV MDA	2640-1 614 (700-1)		2640-1¾ 614 (700-1¾)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

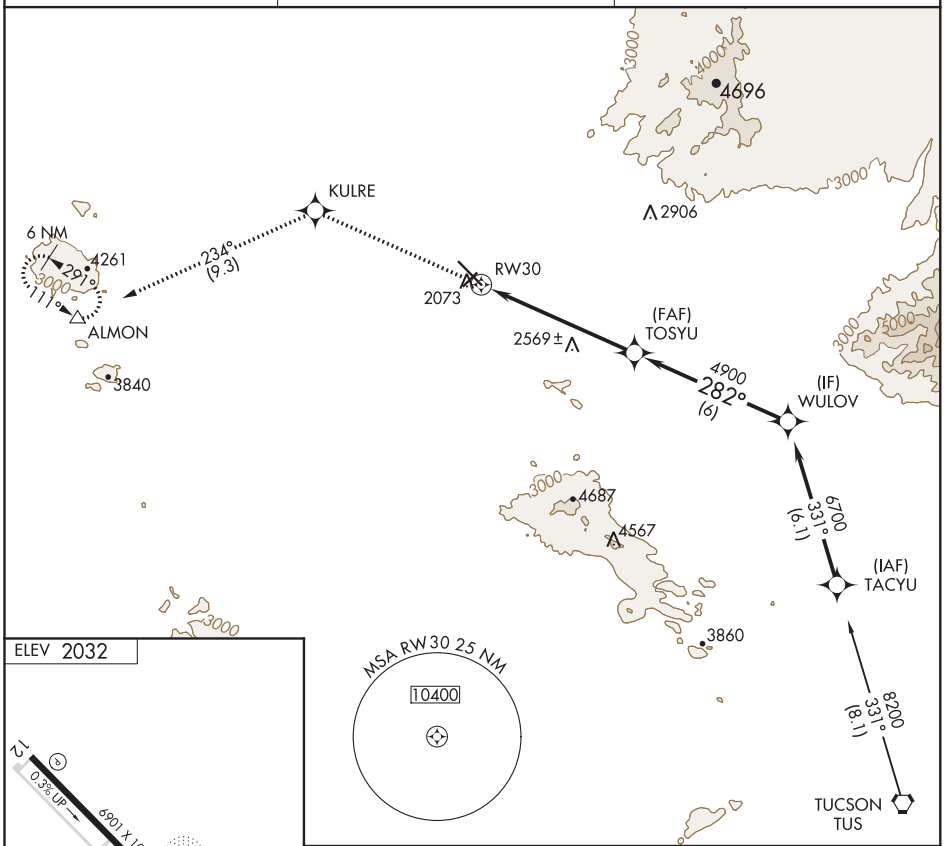
APP CRS	Rwy ldg	N/A
282°	TDZE	N/A
	Apt Elev	2032

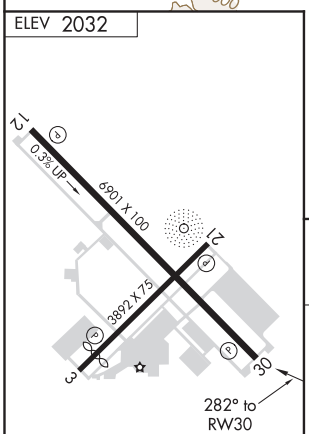
RNAV (GPS)-E
MARANA RGNL (AVQ)

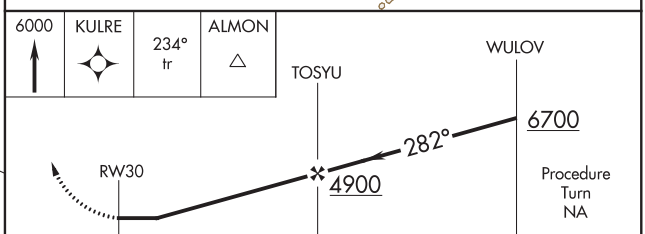
When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet and increase Circling Cat A visibility ¼ SM and Cat C ½ SM. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct KULRE and 234° track to ALMON and hold, continue climb-in-hold to 6000.

AWOS-3	TUCSON APP CON	UNICOM
118.375	119.4 318.1	123.0 (CTAF) L







CATEGORY	A	B	C	D
C CIRCLING	2820-1 788 (800-1)	2820-1¼ 788 (800-1¼)	2820-2¼ 788 (800-2¼)	NA

REIL Rwys 12 and 30 L
MIRL Rwys 3-21 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

MESA, ARIZONA | AL-6647 (FAA) | 20142

WAAS CH 56625 W04A	APP CRS 039°	Rwy ldg 3799 TDZE 1383 Apt Elev 1394

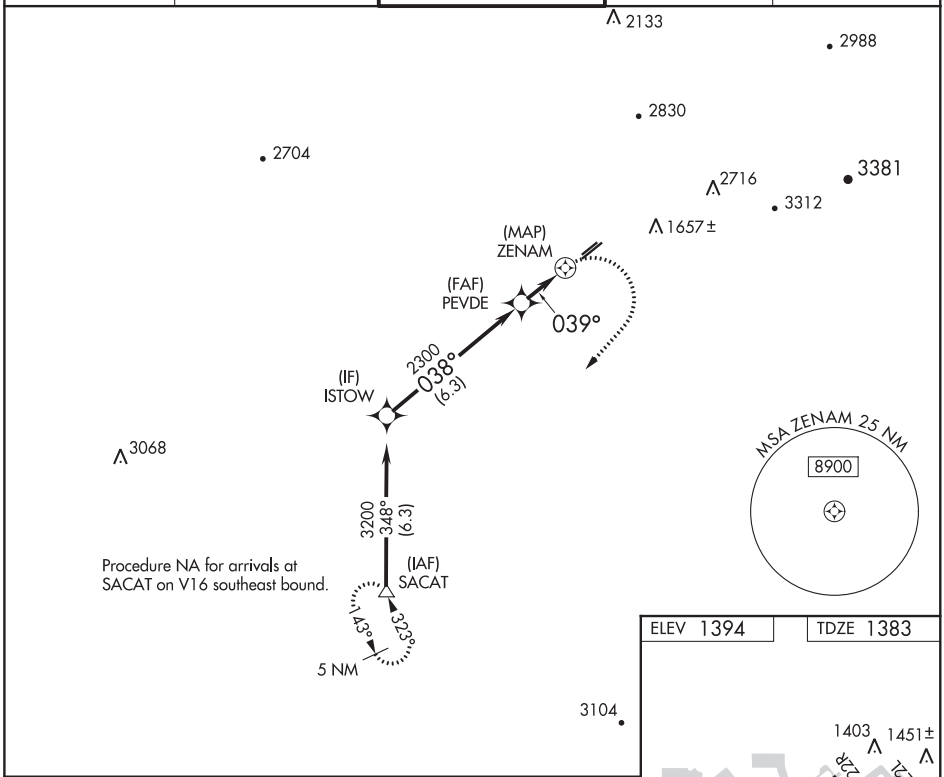
RNAV (GPS) RWY 4L
FALCON FIELD (FFZ)

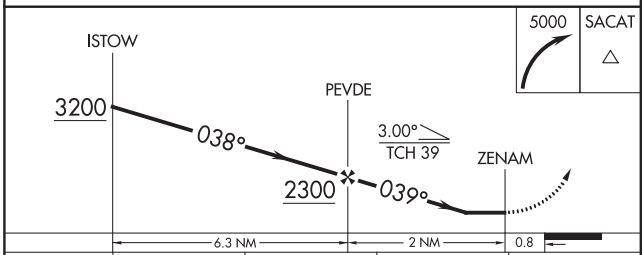
RNP APCH.

When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet and increase LP Cat C visibility ¼ SM and LNAV Cat C visibility ⅛ SM.

MISSED APPROACH: Climbing right turn to 5000 direct SACAT and hold, continue climb-in-hold to 5000.

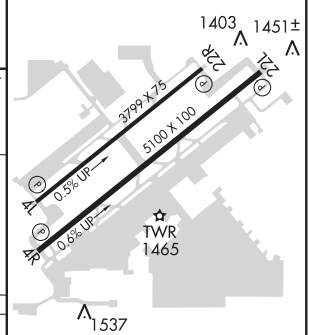
ATIS	PHOENIX APP CON	FALCON TOWER ★	GND CON	UNICOM
118.25	120.7 239.0	124.6 (CTAF) L	121.3	122.95





CATEGORY	A	B	C	D
LP MDA	1780-1 397 (400-1)		1780-1⅛ 397 (400-1⅛)	NA
LNAV MDA	1800-1 417 (500-1)		1800-1¼ 417 (500-1¼)	NA

ELEV 1394 | TDZE 1383



REIL Rwys 4L, 4R and 22R
MIRL Rwy 4R-22L L
MIRL Rwy 4L-22R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

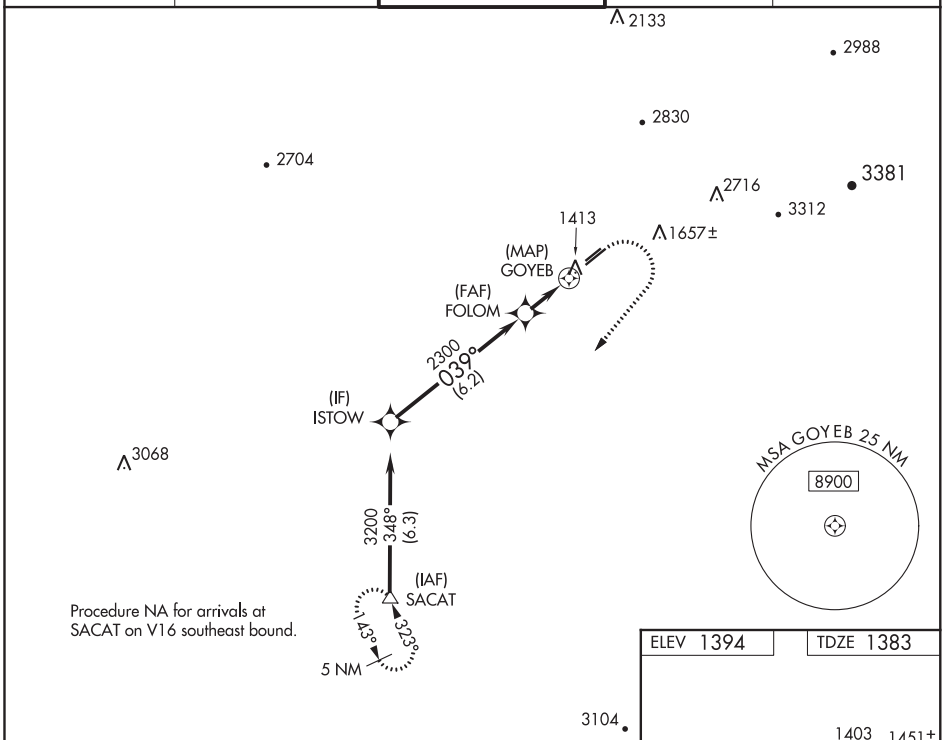
WAAS CH 90525 W04B	APP CRS 039°	Rwy ldg 5100 TDZE 1383 Apt Elev 1394

RNAV (GPS) RWY 4R
FALCON FIELD (FFZ)

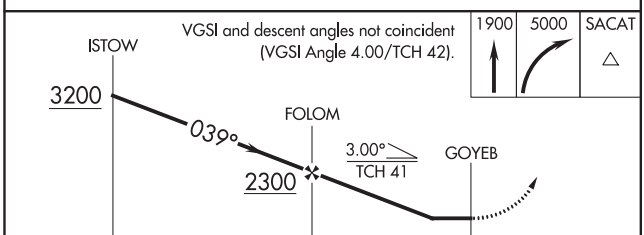
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet and increase LNAV Cat C visibility ⅛ mile. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1900 then climbing right turn to 5000 direct SACAT and hold, continue climb-in-hold to 5000.

ATIS	PHOENIX APP CON	FALCON TOWER ★	GND CON	UNICOM
118.25	120.7 239.0	124.6 (CTAF) L	121.3	122.95

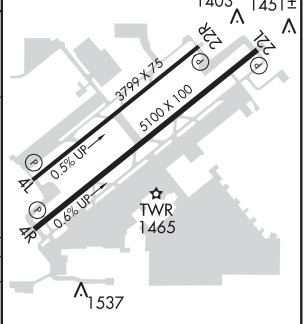


Procedure NA for arrivals at SACAT on V16 southeast bound.



CATEGORY	A	B	C	D
LP MDA	1680-1 297 (300-1)			NA
LNAV MDA	1800-1 417 (500-1)		1800-1¼ 417 (500-1¼)	NA
CIRCLING	1900-1 506 (600-1)		1900-1½ 506 (600-1½)	NA

ELEV 1394 TDZE 1383



REIL Rwys 4R, 4L and 22R
MIRL Rwy 4R-22L L
MIRL Rwy 4L-22R

SW-4, 05 NOV 2020 to 31 DEC 2020

MESA, ARIZONA | AL-6647 (FAA) | 20310

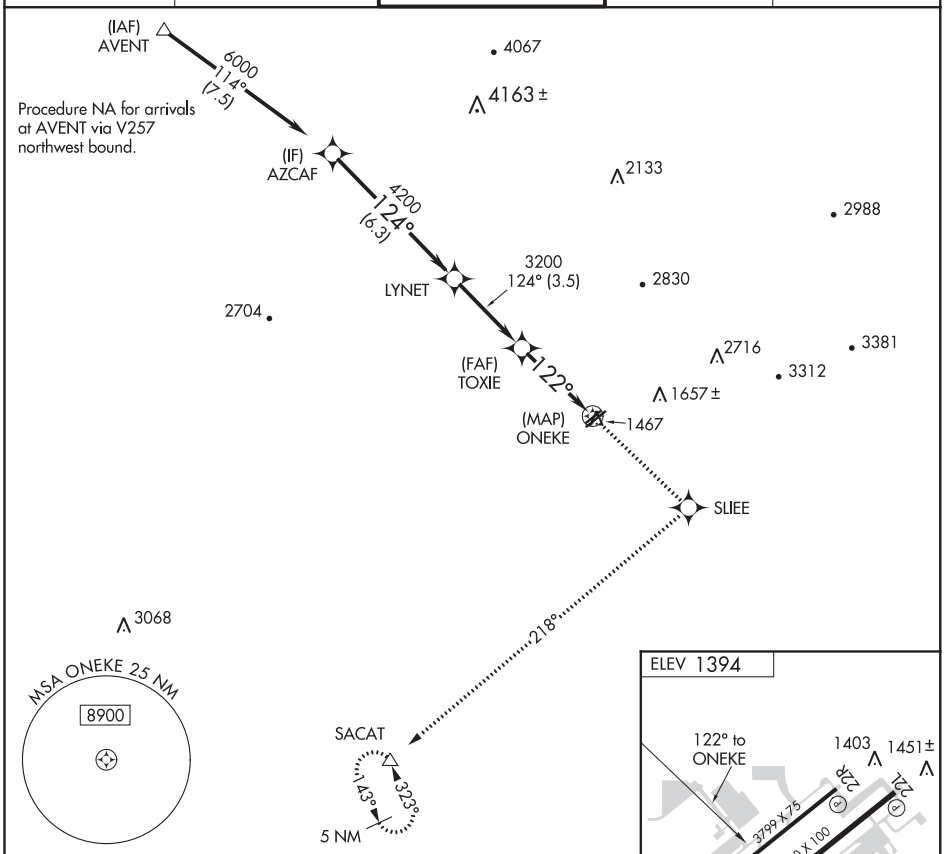
APP CRS	Rwy ldg	N/A
122°	TDZE	N/A
	Apt Elev	1394

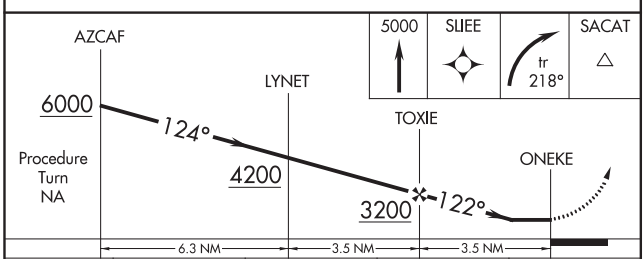
RNAV (GPS)-B
FALCON FIELD (FFZ)

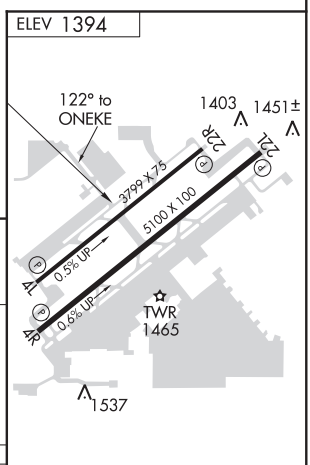
DME/DME RNP- 0.3 NA.
When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 5000 direct SLIEE and right turn on track 218° to SACAT and hold, continue climb-in-hold to 5000.

ATIS	PHOENIX APP CON	FALCON TOWER ★	GND CON	UNICOM
118.25	120.7 239.0	124.6 (CTAF) L	121.3	122.95







CATEGORY	A	B	C	D
CIRCLING	1900-1	506 (600-1)	1900-1½ 506 (600-1½)	NA

REIL Rwys 4R, 4L and 22R
MIRL Rwy 4R-22L L
MIRL Rwy 4L-22R

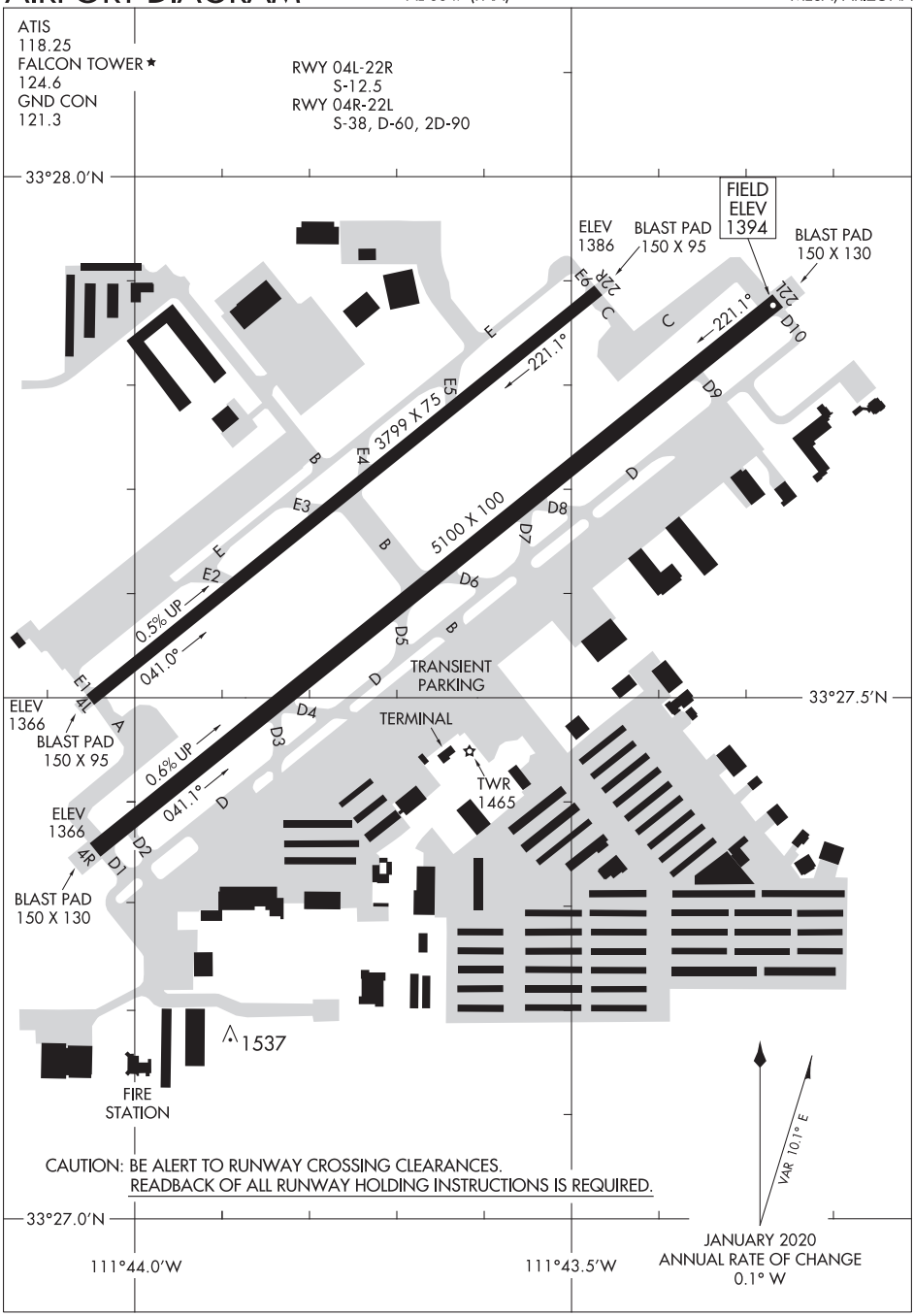
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

MESA, ARIZONA
Orig 29JUL10

33°28'N-111°44'W

FALCON FIELD (FFZ)
RNAV (GPS)-B


ATIS
118.25
FALCON TOWER ★
124.6
GND CON
121.3
RWY 04L-22R
S-12.5
RWY 04R-22L
S-38, D-60, 2D-90
33°28.0'N
FIELD
ELEV
1394
ELEV
1386
BLAST PAD
150 X 95
BLAST PAD
150 X 130
22R
22L
221.1°
3799 X 75
5100 X 100
0.5% UP
041.0°
ELEV
1366
BLAST PAD
150 X 95
4L
0.6% UP
041.1°
ELEV
1366
4R
BLAST PAD
150 X 130
TRANSIENT
PARKING
TERMINAL
TWR
1465
33°27.5'N
1537
FIRE
STATION
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
VAR 10.1° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
33°27.0'N
111°44.0'W
111°43.5'W

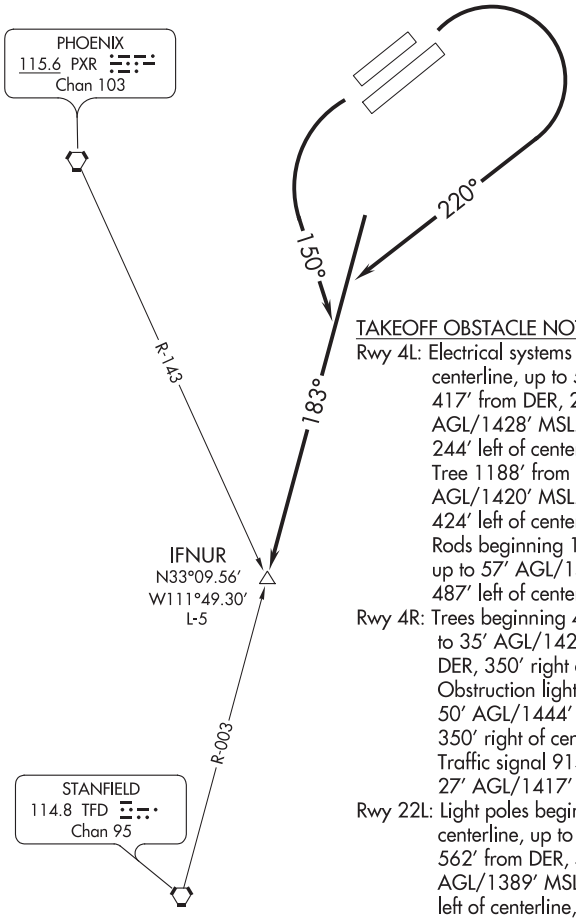
(MESA1.MESA) 16315

MESA ONE DEPARTURE (OBSTACLE)

SL-6647 (FAA)

FALCON FIELD (FFZ)
MESA, ARIZONA

FALCON TOWER *
124.6 (CTAF)
PHOENIX DEP CON
120.7 239.0



NOTE: Chart not to scale.

TAKEOFF OBSTACLE NOTES

Rwy 4L: Electrical systems beginning 248′ from DER, 416′ left of centerline, up to 50′ AGL/1430′ MSL. Light poles 417′ from DER, 29′ left of centerline, up to 48′ AGL/1428′ MSL. Trees beginning 418′ from DER, 244′ left of centerline, up to 40′ AGL/1423′ MSL. Tree 1188′ from DER, 155′ right of centerline, 40′ AGL/1420′ MSL. Obstruction light 1314′ from DER, 424′ left of centerline, 54′ AGL/1434′ MSL. Rods beginning 1236′ from DER, 424′ left of centerline, up to 57′ AGL/1437′ MSL. Windsock 1523′ from DER, 487′ left of centerline, 34′ AGL/1414′ MSL.

Rwy 4R: Trees beginning 412′ from DER, 15′ left of centerline, up to 35′ AGL/1425′ MSL. Light poles beginning 513′ from DER, 350′ right of centerline, up to 51′ AGL/1441′ MSL. Obstruction light 531′ from DER, 583′ right of centerline, 50′ AGL/1444′ MSL. Trees beginning 585′ from DER, 350′ right of centerline, up to 40′ AGL/1460′ MSL. Traffic signal 914′ from DER, 68′ left of centerline, 27′ AGL/1417′ MSL.

Rwy 22L: Light poles beginning 256′ from DER, 421′ right of centerline, up to 24′ AGL/1384′ MSL. Windmill 562′ from DER, 457′ right of centerline, 39′ AGL/1389′ MSL. Light pole 1206′ from DER, 510′ left of centerline, 38′ AGL/1398′ MSL.

Rwy 22R: Light poles beginning 297′ from DER, 65′ right of centerline, up to 43′ AGL/1403′ MSL. Trees beginning 369′ from DER, 127′ right of centerline, up to 25′ AGL/1385′ MSL.

TAKEOFF MINIMUMS

Rwys 22L/R: Standard.
Rwy 4L: Standard with minimum climb of 480′ per NM to 3600 or 1100-3 for climb in visual conditions.
Rwy 4R: Standard with minimum climb of 495′ per NM to 3600 or 1100-3 for climb in visual conditions.

DEPARTURE ROUTE DESCRIPTION

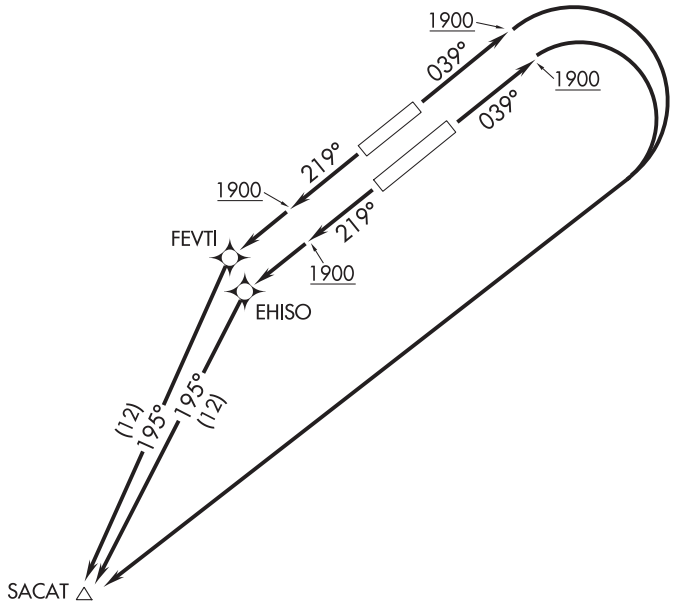
TAKEOFF RUNWAYS 4L/4R: Climbing right turn to 5000 heading 220° and TFD VORTAC R-003 to IFNUR INT or for climb in visual condition, cross Falcon Field Airport at or above 2300 then climb to 5000 via TFD R-003 to IFNUR INT, expect filed altitude 10 minutes after departure.

TAKEOFF RUNWAYS 22L/22R: Climbing left turn to 5000 heading 150° and TFD VORTAC R-003 to IFNUR INT, expect filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020

FALCON TOWER ★
124.6
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS
Rwys 22L/R: Standard.
Rwy 4L: Standard with minimum climb of 510′ per NM to 4300.
Rwy 4R: Standard with minimum climb of 525′ per NM to 4200.

NOTE: GPS required.
NOTE: RNAV 1.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/4R: Climb heading 039° to 1900 then climbing right turn direct SACAT. Thence. . . .

TAKEOFF RUNWAY 22L: Climb heading 219° to 1900 then direct EHISO then on track 195° to SACAT. Thence. . . .

TAKEOFF RUNWAY 22R: Climb heading 219° to 1900 then direct FEVTI then on track 195° to SACAT. Thence. . . .

. . . .maintain 5000, expect clearance to filed altitude/flight level 10 minutes after departure.

WAAS CH 69641 W02A	APP CRS 023°	Rwy ldg 5121 TDZE 1936 Apt Elev 1978

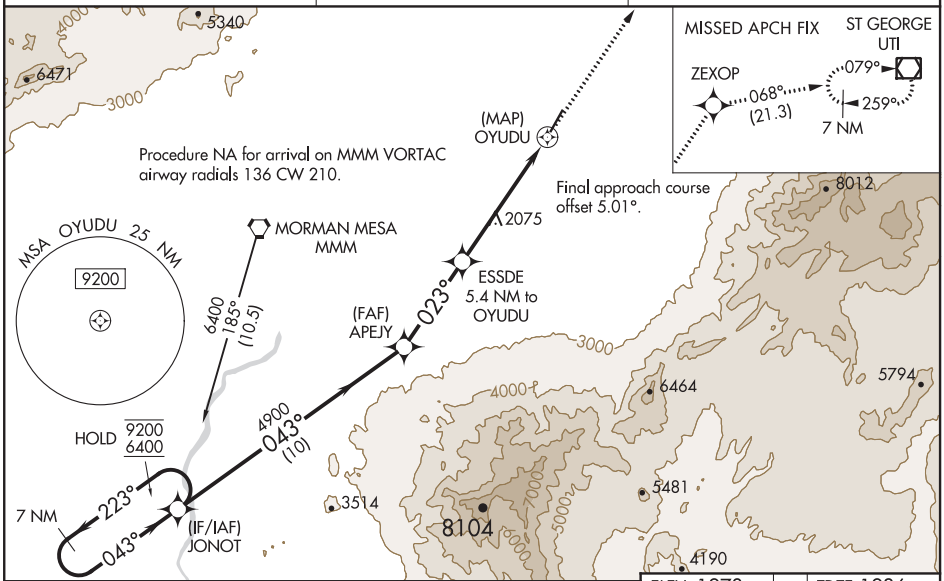
RNAV (GPS) RWY 2
MESQUITE (67L)

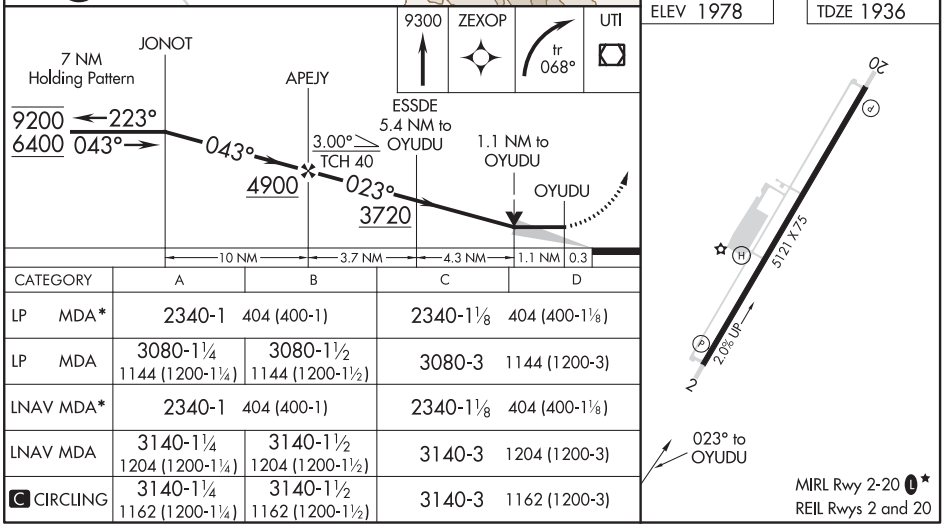
RNP APCH.

NA VDP NA when using St George altimeter setting. When local altimeter setting not received, use St. George altimeter setting and increase all MDAs 200 feet and LP* and LNAV* Cats C/D visibility 5/8 SM. Circling NA for Cat D west of Rwy 2-20. Circling Rwy 20 NA at night.

MISSED APPROACH: Climb to 9300 direct ZEXOP and climbing right turn on track 068° to UTI VOR/DME and hold, continue climb-in-hold to 9300.
*Missed approach requires minimum climb of 258 feet per NM to 6200.

AWOS-2	LOS ANGELES CENTER	UNICOM
118.525	124.2 343.6	122.8 (CTAF) L*





CATEGORY	A	B	C	D
LP MDA*	2340-1 404 (400-1)		2340-1⅛ 404 (400-1⅛)	
LP MDA	3080-1¼ 1144 (1200-1¼)	3080-1½ 1144 (1200-1½)	3080-3 1144 (1200-3)	
LNAV MDA*	2340-1 404 (400-1)		2340-1⅛ 404 (400-1⅛)	
LNAV MDA	3140-1¼ 1204 (1200-1¼)	3140-1½ 1204 (1200-1½)	3140-3 1204 (1200-3)	
C CIRCLING	3140-1¼ 1162 (1200-1¼)	3140-1½ 1162 (1200-1½)	3140-3 1162 (1200-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

DUGWAY PROVING GROUND, UTAH

RNAV (GPS) RWY 12

APCH CRS	Rwy ldg	10,000
122°	TDZE	4346
	Arpt Elev	4351

AL-5071 [USA]

MICHAEL AAF (KDPG)

T NA

* Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.
DME/DME RNP-0.3 NA.

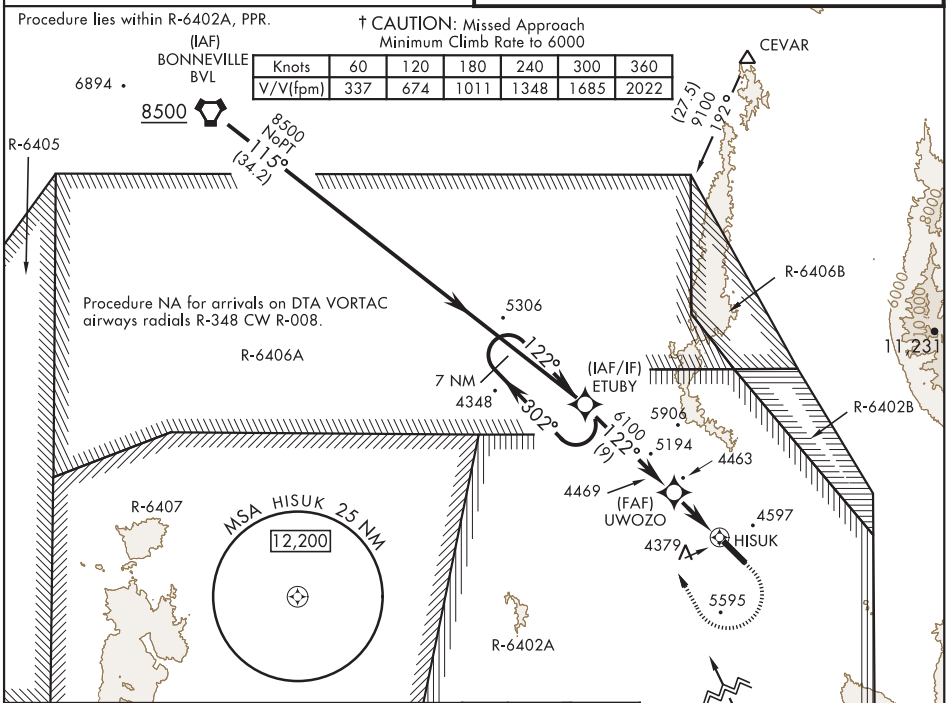
MISSED APPROACH: Climb to 4760 then climbing right turn to 8500 direct ETUBY and hold, continue climb in hold to 8500.

CLOVER CON	CTAF
134.1 363.5	L 126.2 270.3

Procedure lies within R-6402A, PPR.

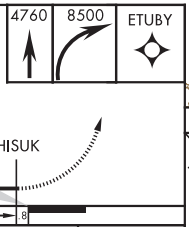
† CAUTION: Missed Approach Minimum Climb Rate to 6000

Knots	60	120	180	240	300	360
V/V(fpm)	337	674	1011	1348	1685	2022



VGSI and descent angles not coincident

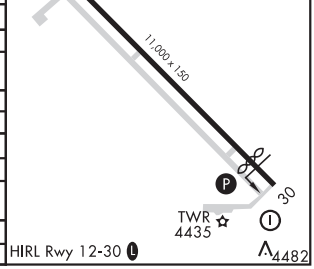
VDP NA with Wendover altimeter setting minimums.



ELEV 4351 | TDZE 4346

122° from FAF

Rwy 12 ldg 10,000′
Rwy 30 ldg 9998′



CATEGORY	A	B	C	D	E
LNAV MDA	4640-1 294 (300-1)		5140-2½ 794 (800-2½)		
C CIRCLING	4800-1 449 (500-1)	4920-1 569 (600-1)	5160-2½ 809 (900-2½)	5880-3 1529 (1600-3)	NA
†BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT of 337 ft/NM					
LNAV MDA	NA		4640-1 294 (300-1)		
*WENDOVER ALTIMETER SETTING MINIMUMS					
LNAV MDA	4800-1 454 (500-1)		5300-3 954 (1000-3)		
C CIRCLING	4960-1 609 (700-1)	5080-1 729 (800-1)	5320-3 969 (1000-3)	6040-3 1689(1700-3)	NA
†BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT of 337 ft/NM					
LNAV MDA	NA		4800-3 454 (500-3)		

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

19339

DUGWAY PROVING GROUND, UTAH

TACAN RWY 12

TACAN Chan	MIJ 79	APCH CRS 117°	Rwy ldg 10,000 TDZE 4346 Arpt Elev 4351

AL-5071 [USA]

MICHAEL AAF (KDPG)

T
A NA

* Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.

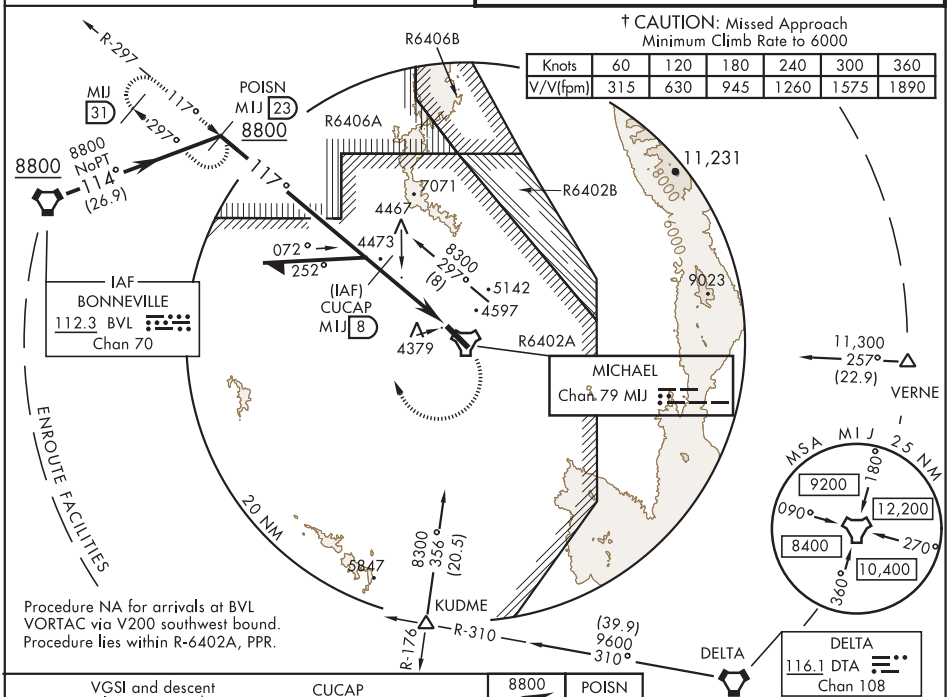
MISSED APPROACH: Climbing right turn to 8800 via MIJ TACAN R-297 to POISN/MIJ 23 DME and hold.

CLOVER CON
134.1 363.5

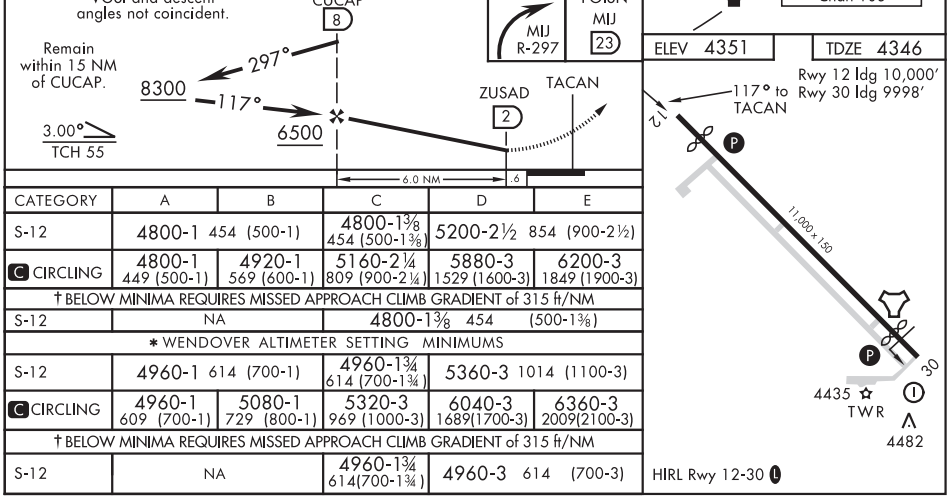
CTAF
L 126.2 270.3

† CAUTION: Missed Approach Minimum Climb Rate to 6000

Knots	60	120	180	240	300	360
V/V(fpm)	315	630	945	1260	1575	1890

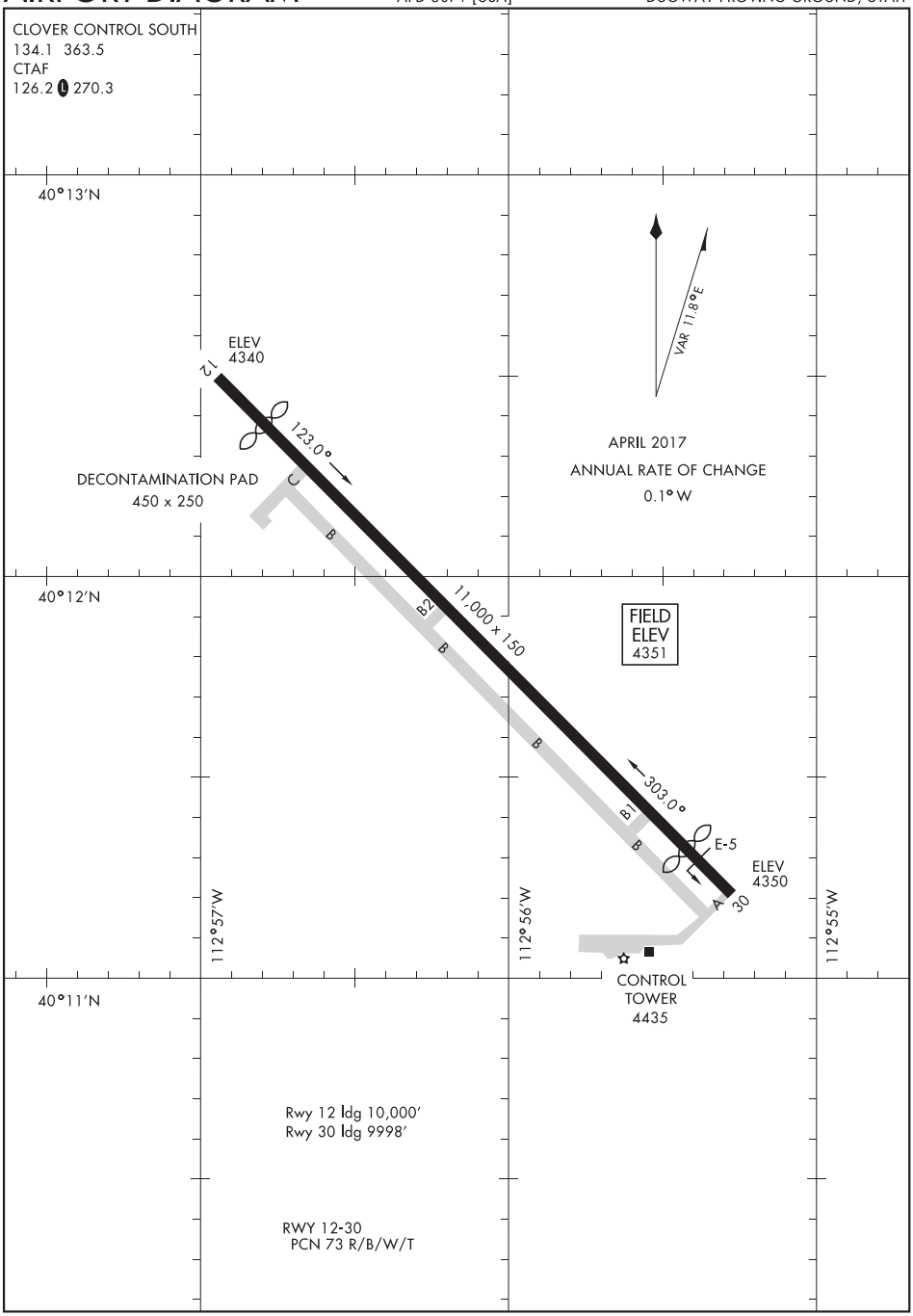


Procedure NA for arrivals at BVL VORTAC via V200 southwest bound. Procedure lies within R-6402A, PPR.



CATEGORY	A	B	C	D	E
S-12	4800-1 454 (500-1)		4800-1⅜ 454 (500-1⅜)	5200-2½ 854 (900-2½)	
C CIRCLING	4800-1 449 (500-1)	4920-1 569 (600-1)	5160-2¼ 809 (900-2¼)	5880-3 1529 (1600-3)	6200-3 1849 (1900-3)
† BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT of 315 ft/NM					
S-12	NA		4800-1⅜ 454 (500-1⅜)		
* WENDOVER ALTIMETER SETTING MINIMUMS					
S-12	4960-1 614 (700-1)		4960-1¾ 614 (700-1¾)	5360-3 1014 (1100-3)	
C CIRCLING	4960-1 609 (700-1)	5080-1 729 (800-1)	5320-3 969 (1000-3)	6040-3 1689(1700-3)	6360-3 2009(2100-3)
† BELOW MINIMA REQUIRES MISSED APPROACH CLIMB GRADIENT of 315 ft/NM					
S-12	NA		4960-1¾ 614(700-1¾)	4960-3 614 (700-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

MILFORD, UTAH | AL-260 (FAA) | 20086

APP CRS	Rwy ldg	5004
165°	TDZE	5033
	Apt Elev	5039

RNAV (GPS) RWY 16

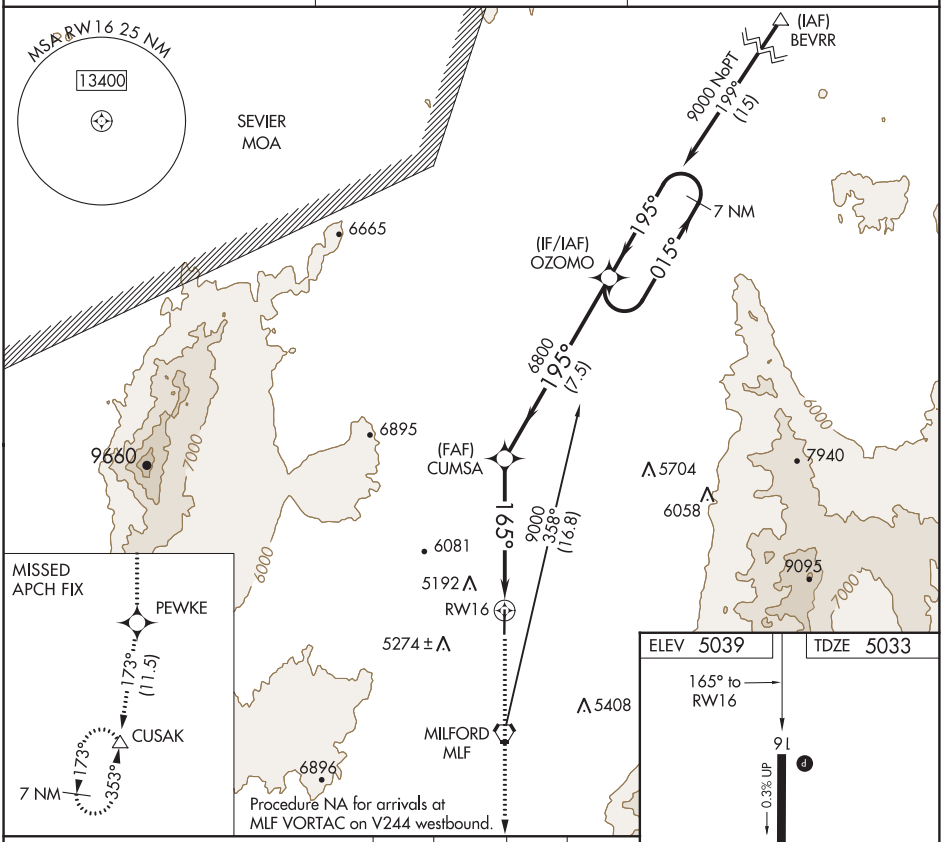
MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

RNP APCH.

When local altimeter setting not received, use Cedar City altimeter setting and increase all MDA 200 feet and increase LNAV Cat C/D visibility ½ mile.

MISSED APPROACH: Climb to 10000 direct PEWKE and on track 173° to CUSAK and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.025	125.575 379.275	122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	5480-1 447 (500-1)		5480-1⅜ 447 (500-1⅜)	

MIRL Rwy 16-34 L
REIL Rwys 16 and 34 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	5004
345°	TDZE	5039
	Apt Elev	5039

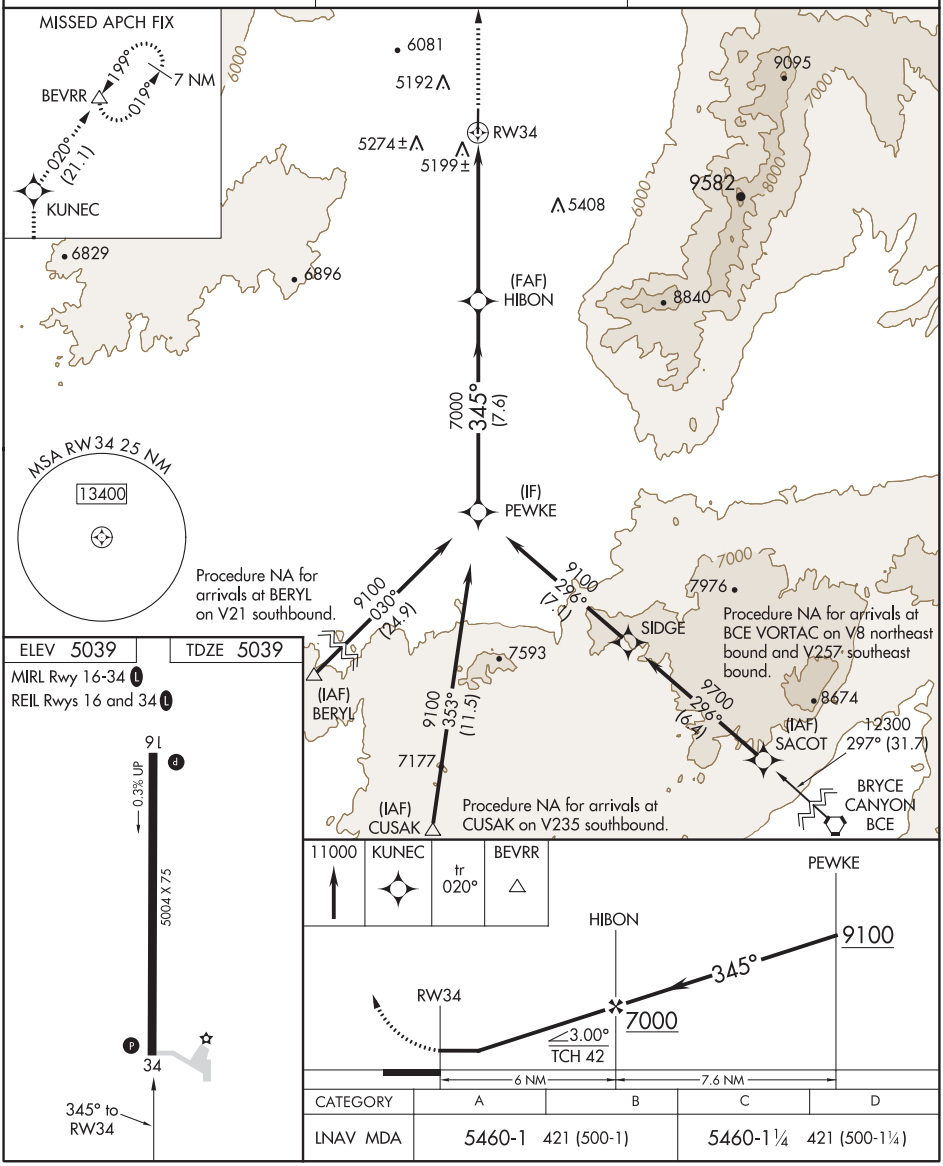
RNAV (GPS) RWY 34
MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

RNP APCH.

When local altimeter setting not received, use Cedar City altimeter setting and increase all MDA 180 feet; increase LNAV Cat C/D visibility ½ mile.

MISSED APPROACH: Climb to 11000 direct KUNEC and on track 020° to BEVRR and hold, continue climb-in-hold to 11000.

ASOS	SALT LAKE CENTER	UNICOM
135.025	125.575 379.275	122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	5460-1 421 (500-1)		5460-1¼ 421 (500-1¼)	

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

MILFORD, UTAH | AL-260 (FAA) | 20086

VORTAC MLF 112.1 Chan 58	APP CRS 344°	Rwy ldg N/A TDZE N/A Apt Elev 5039

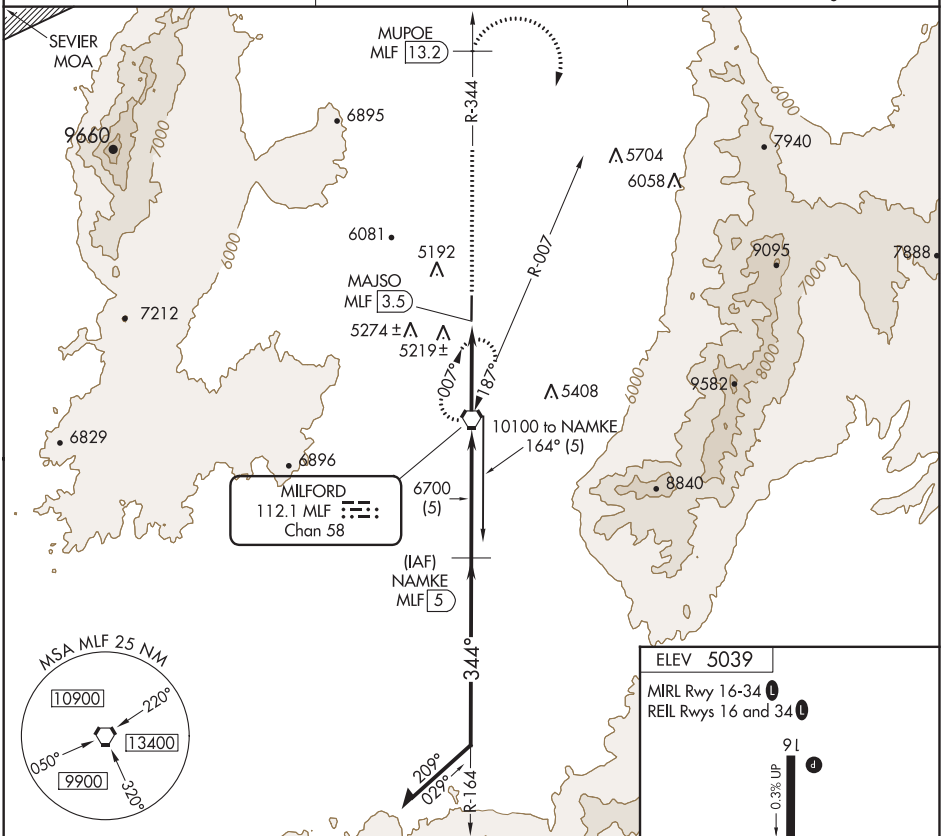
VOR/DME-A

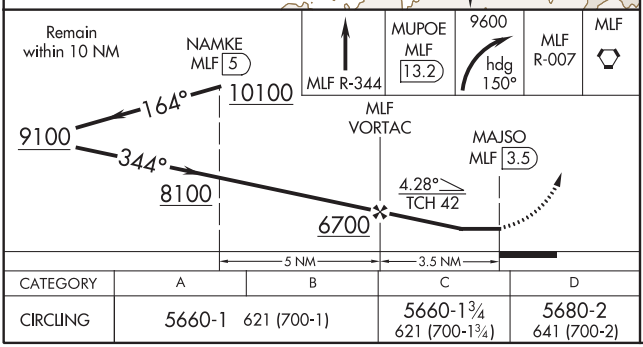
MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

When local altimeter setting not received, use Cedar City altimeter setting and increase MDA 200 feet, and increase Cat C visibility ½ mile and Cat D visibility ¾ mile. When VGSI inop, procedure NA at night. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb on MLF VORTAC R-344 to MUPOE/MLF 13.2 DME then climbing right turn to 9600 on heading 150° and MLF VORTAC R-007 to MILFORD VORTAC and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.025	125.575 379.275	122.8 (CTAF) L

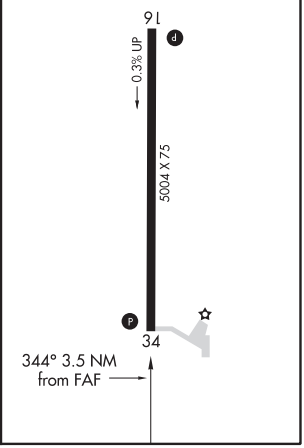




ELEV 5039

MIRL Rwy 16-34 L

REIL Rwys 16 and 34 L



CATEGORY	A	B	C	D
CIRCLING	5660-1 621 (700-1)		5660-1¾ 621 (700-1¾)	5680-2 641 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	N/A
160°	TDZE	N/A
	Apt Elev	4724

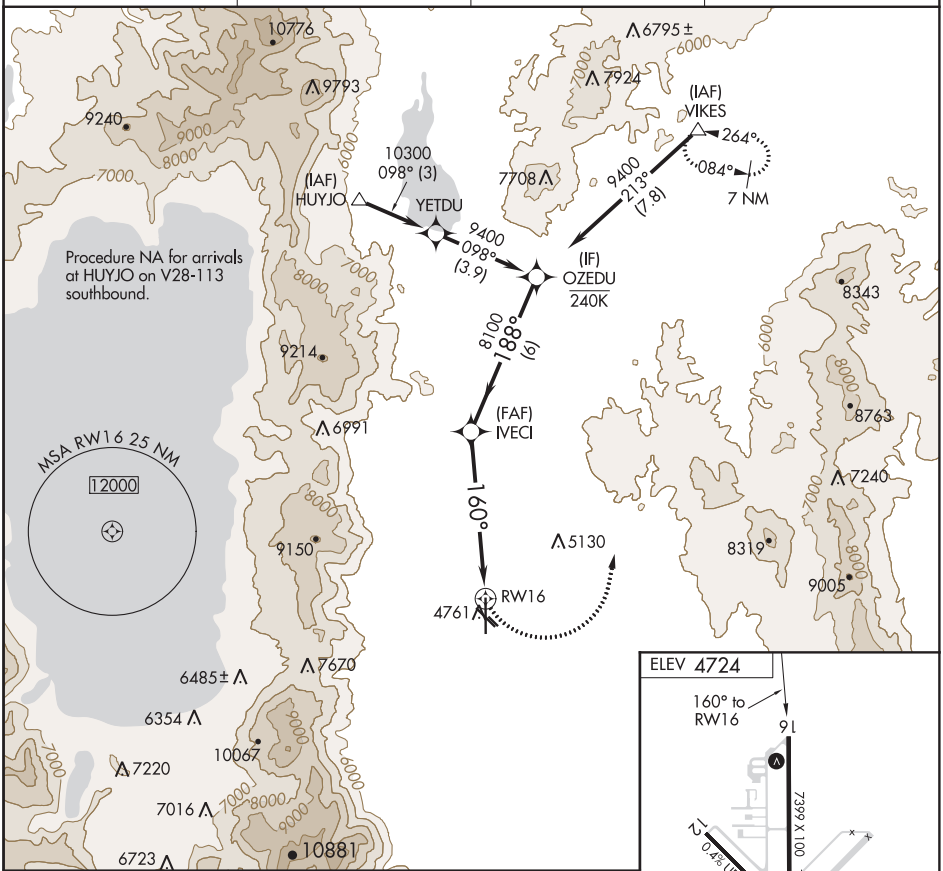
RNAV (GPS)-A
MINDEN-TAHOE (MEV)

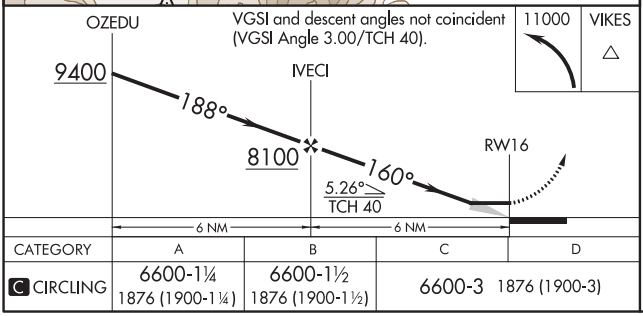
RNP APCH.

Circling NA for Cat D southwest of Rwys 12 and 34.
Circling Rwy 12L, 30R NA at night.

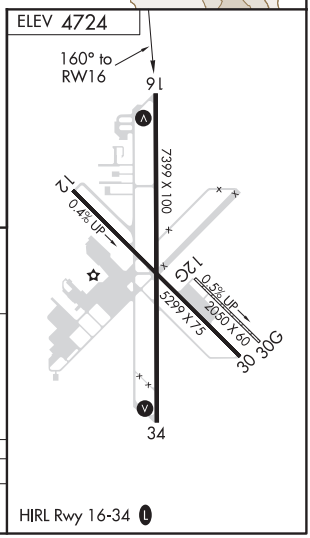
MISSED APPROACH: Climbing left turn to 11000 direct VIKES and hold, continue climb-in-hold to 11000.

AWOS-3PT	NORCAL APP CON	CLNC DEL	UNICOM
119.325	119.2 279.55	133.25	123.05 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	6600-1¼ 1876 (1900-1¼)	6600-1½ 1876 (1900-1½)	6600-3 1876 (1900-3)	



HIRL Rwy 16-34 L

SW-4, 05 NOV 2020 to 31 DEC 2020

MINDEN, NEVADA | AL-9430 (FAA) | 19171

APP CRS	Rwy ldg	N/A
345°	TDZE	N/A
	Apt Elev	4724

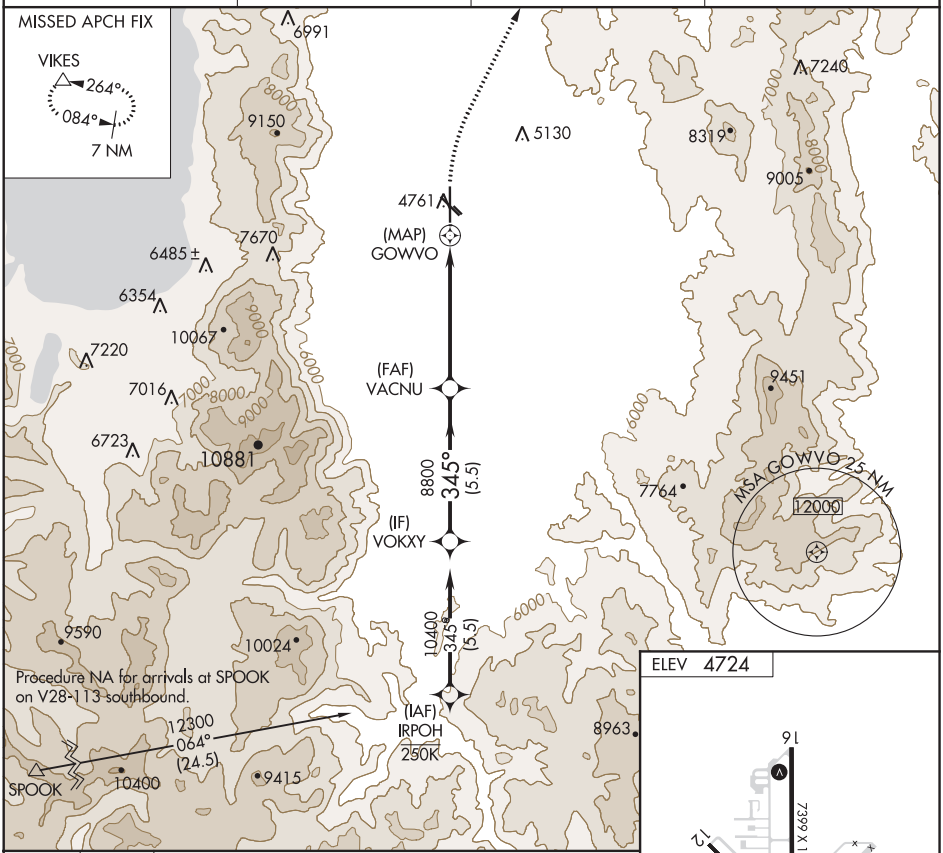
RNAV (GPS)-B
MINDEN-TAHOE (MEV)

RNP APCH.

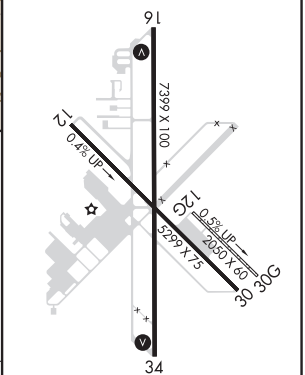
Circling NA for Cat D southwest of Rwys 12 and 34.
Circling Rwy 12L, 30R NA at night.

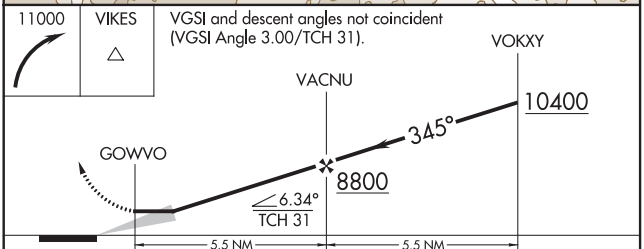
MISSED APPROACH: Climbing right turn to 11000 direct VIKES and hold, continue climb-in-hold to 11000.

AWOS-3PT	NORCAL APP CON	CLNC DEL	UNICOM
119.325	119.2 279.55	133.25	123.05 (CTAF) L



ELEV 4724

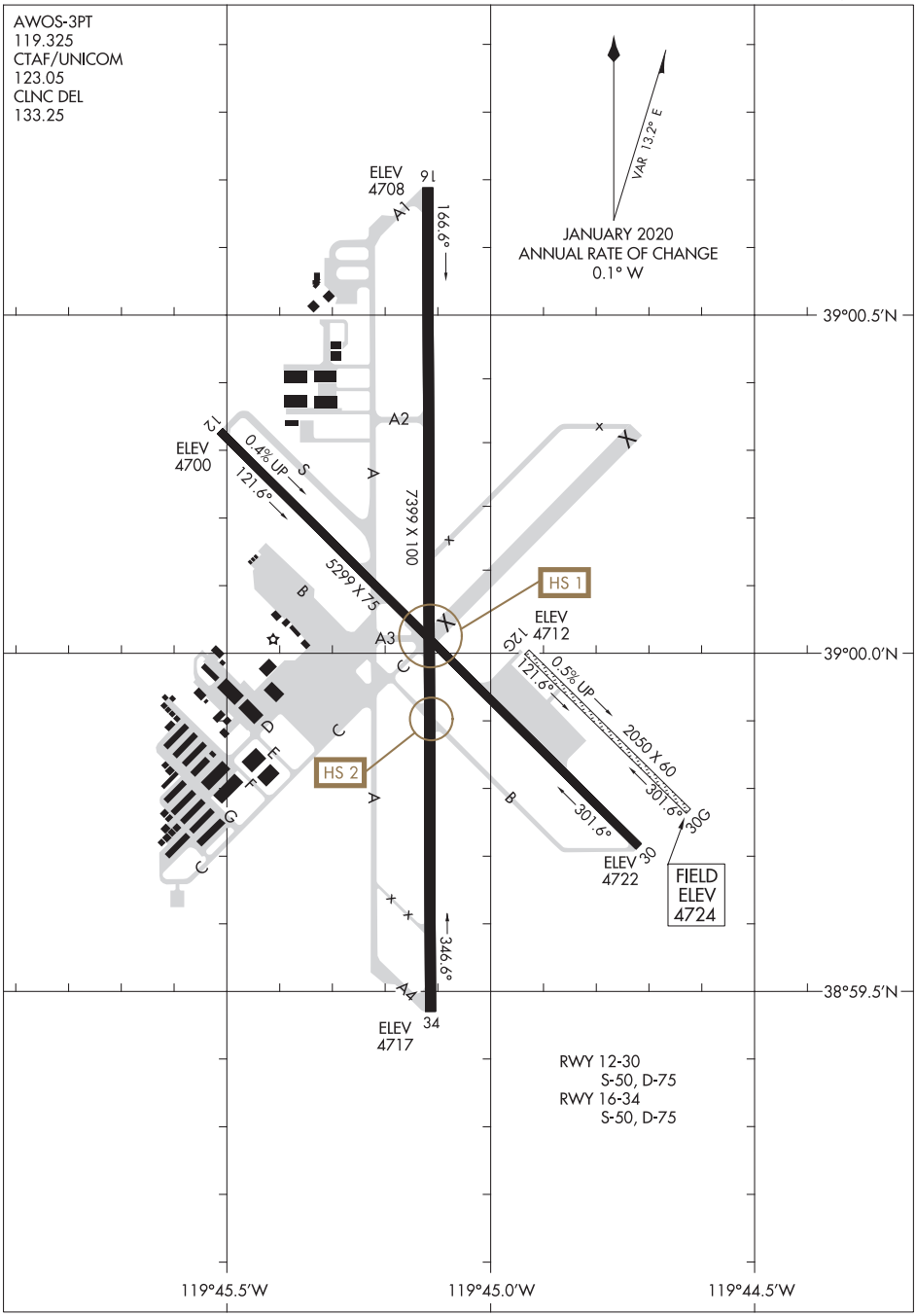




CATEGORY	A	B	C	D
C CIRCLING	6480-1¼ 1756 (1800-1¼)	6480-1½ 1756 (1800-1½)	6480-3 1756 (1800-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

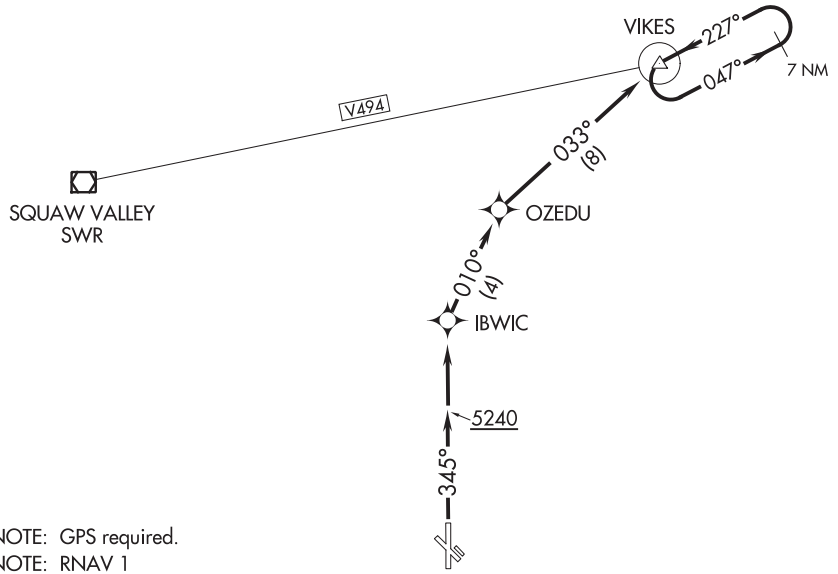
SW-4, 05 NOV 2020 to 31 DEC 2020

(MINDN2.VIKES) 16315

MINDEN TWO DEPARTURE (OBSTACLE) (RNAV)

MINDEN-TAHOE (MEV)
SL-9430 (FAA) MINDEN, NEVADA

RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55



NOTE: GPS required.
NOTE: RNAV 1

TAKEOFF MINIMUMS
Rwys 16, 12, 30: NA - obstacles.
Rwy 34: Standard with a minimum climb of 413′ per NM to 7800.

TAKEOFF OBSTACLE NOTES
Rwy 34: Fence 235′ from DER, 302′ right of centerline, 7′ AGL/4714′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34: Climb heading 345° to 5240 then direct IBWIC, then on track 010° to OZEDU, then on track 033° to VIKES, then climb in VIKES holding pattern (hold NE, left turn, 227° inbound) to cross VIKES at or above MEA/MCA for assigned route of flight.

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 93642 W03A	APP CRS 044°	Rwy ldg 6301 TDZE 4558 Apt Elev 4590

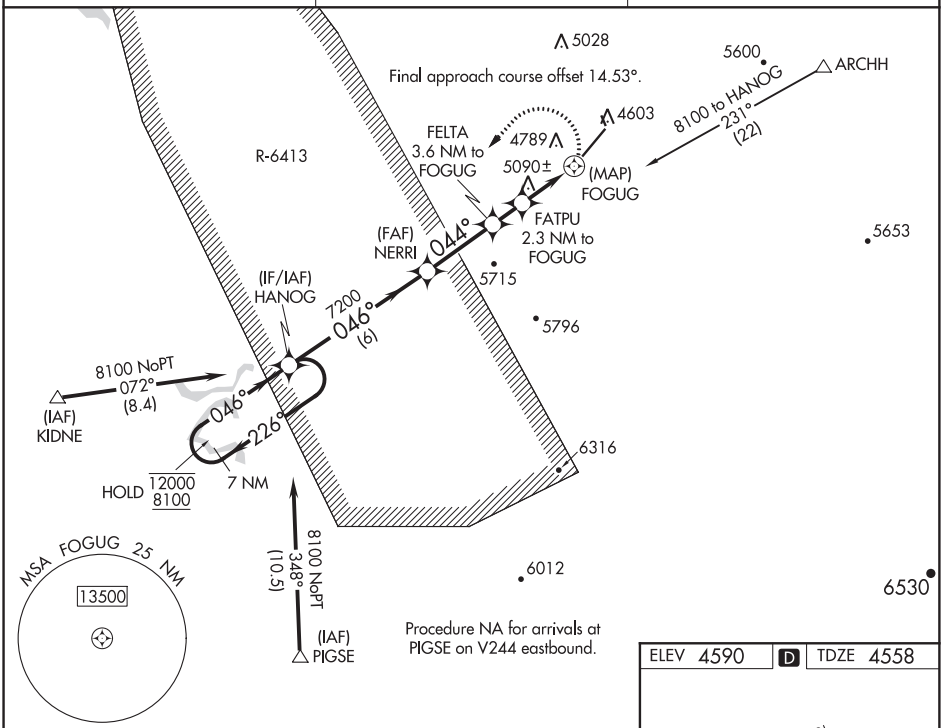
RNAV (GPS) RWY 3
CANYONLANDS FIELD (CNY)

RNP APCH.

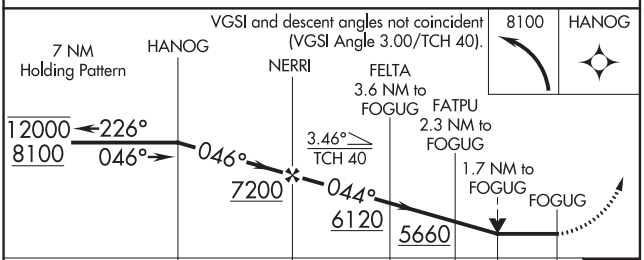
T A NA Circling NA to Rwys 15 and 33. Rwy 3 helicopter visibility reduction below ¾ SM NA. Procedure NA when R-6413 in operation.

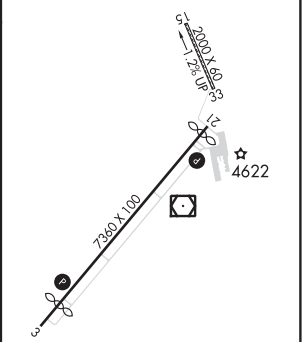
MISSED APPROACH: Climbing left turn to 8100 direct HANOG and hold, continue climb-in-hold to 8100.

ASOS	DENVER CENTER	UNICOM
118.525	134.5 327.8	122.8 (CTAF) L



ELEV 4590 D TDZE 4558





CATEGORY	A	B	C	D
LP MDA	5340-1 782 (800-1)	5340-1¼ 782 (800-1¼)	5340-2½ 782 (800-2½)	
LNAV MDA	5340-1 782 (800-1)	5340-1¼ 782 (800-1¼)	5340-2½ 782 (800-2½)	
C CIRCLING	5660-1 1070 (1100-1)	5660-1¼ 1070 (1100-1¼)	5720-3 1130 (1200-3)	6220-3 1630 (1700-3)

REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

MOAB, UTAH | AL-5585 (FAA) | 20310

VOR-A
CANYONLANDS FIELD (CNY)

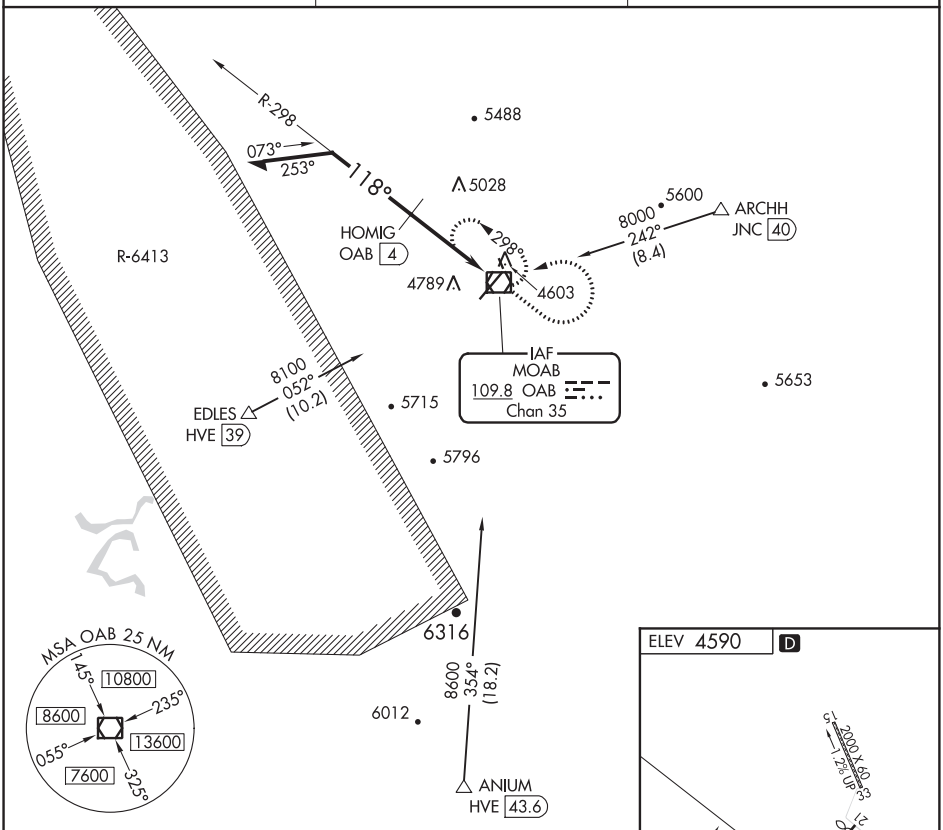
VOR/DME OAB	APP CRS	Rwy ldg	N/A
109.8	118°	TDZE	N/A
Chan 35		Apt Elev	4590

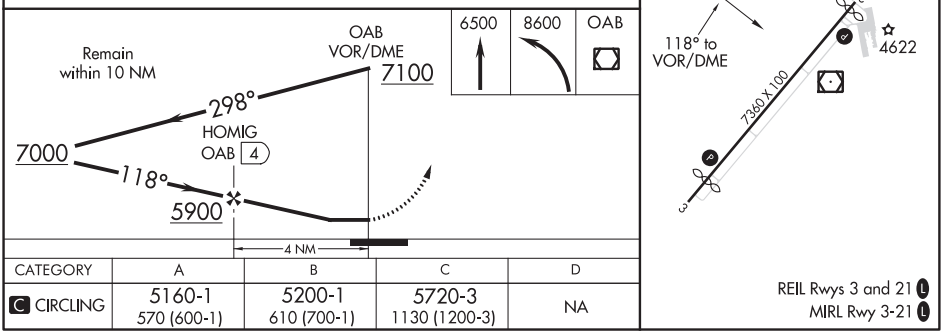
DME required.

T A NA — Circling NA to Rwys 15 and 33. Procedure NA when R-6413 in operation.

MISSED APPROACH: Climb to 6500 then climbing left turn to 8600 direct OAB VOR/DME and hold, continue climb-in-hold to 8600.

ASOS	DENVER CENTER	UNICOM
118.525	134.5 327.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	5160-1 570 (600-1)	5200-1 610 (700-1)	5720-3 1130 (1200-3)	NA

REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LAS VEGAS, NEVADA

ILS or LOC X RWY 21L

NELLIS AFB (KLSV)

LOC I-DIQ	APCH CRS
109.1	209°

	21L	21R
Rwy ldg	10,051	10,120
TDZE	1865	1869
Arpt Elev	1869	

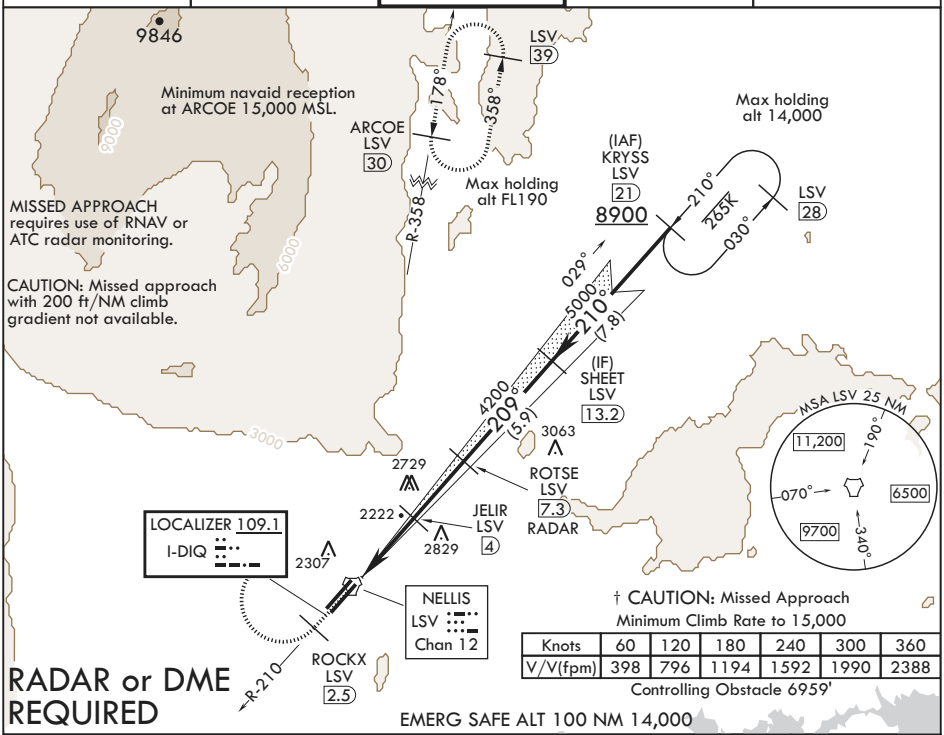
AL-227 (USAF)

* When ALS inop, increase all CAT RVR to 40, vis to 3/4 mile.
** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CDE vis to 1 3/4 miles.
*** Circling not authorized E of Rwy 3R-21L.

Rwy 21L ALSF-1

† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV TACAN R-358 to ARCOE and hold, continue climb in hold to 15,000. Missed approach not for civil use.

ATIS	APP CON	TOWER	GND CON	CLNC DEL
270.1	124.95 273.55	132.55 327.0	121.8 275.8	120.9 289.4



† CAUTION: Missed Approach Minimum Climb Rate to 15,000

Knots	60	120	180	240	300	360
V/V(fpm)	398	796	1194	1592	1990	2388

Controlling Obstacle 6959'

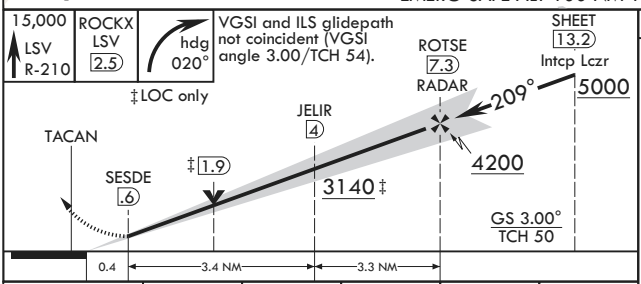
RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,000

15,000 LSV R-210 | ROCKX LSV 2.5 | hdg 020°

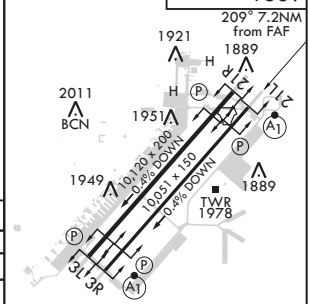
VGSI and ILS glidepath not coincident (VGSI angle 3.00/TCH 54).

‡LOC only



ELEV 1869

TDZE 21L 1865
TDZE 21R 1869



CATEGORY	A	B	C	D	E
S-ILS 21L*	2065/24		200	(200-½)	
S-LOC 21L**	2480/24 615 (700-½)		2480-1⅜ 615	(700-1⅜)	
SIDESTEP21R	2500-1 631 (700-1)		2500-1¾ 631	(700-1¾)	
C CIRCLING***	2480-1 611 (700-1)	2620-1 751 (800-1)	2620-2¼ 751 (800-2¼)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

19339

LAS VEGAS, NEVADA

LOC Y RWY 21L

LOC I-DIQ	APCH CRS	Rwy ldg 21L	Rwy ldg 21R
109.1	209°	10,051 TDZE 1865 Arpt Elev 1869	10,120 TDZE 1869

AL-227 [USAF] NELLIS AFB (KLSV)

* When ALS inop, increase CAT CDE vis to 1⅜ miles.
** Circling not authorized E of Rwy 3R-21L.

ALSF-1 A1

† MISSED APPROACH: Climb to 8000, intercept the LAS VORTAC R-018 to 10.3 DME (IREEN), then to LAS and hold.

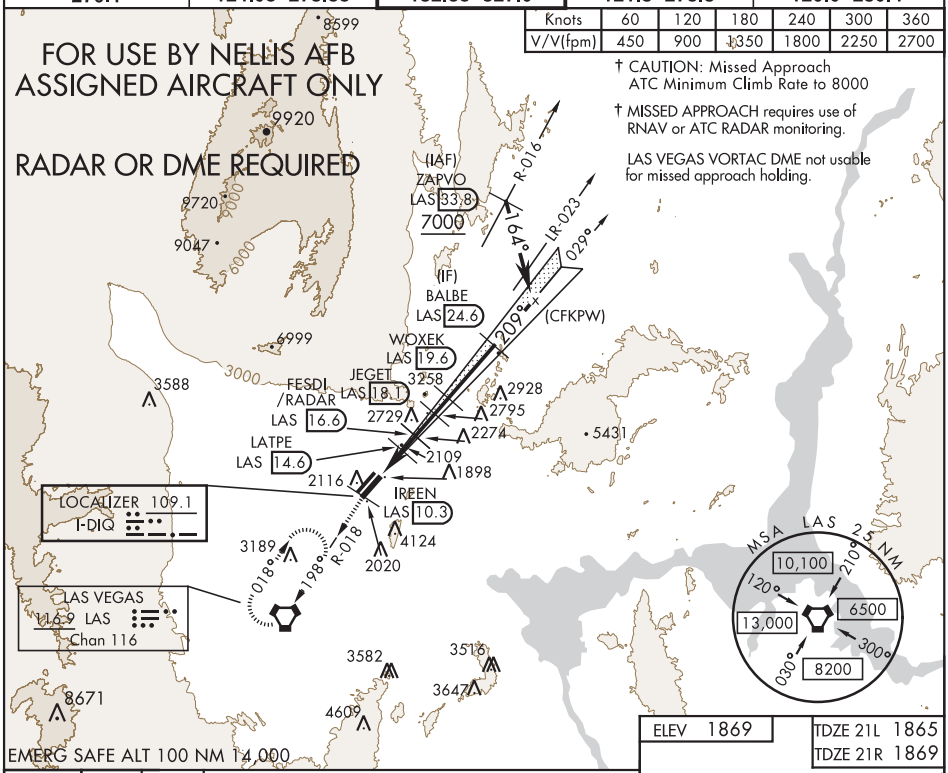
ATIS	NELLIS APP CON	NELLIS TOWER	GND CON	CLNC DEL
270.1	124.95 273.55	132.55 327.0	121.8 275.8	120.9 289.4

Knots	60	120	180	240	300	360
V/V(fpm)	450	900	1350	1800	2250	2700

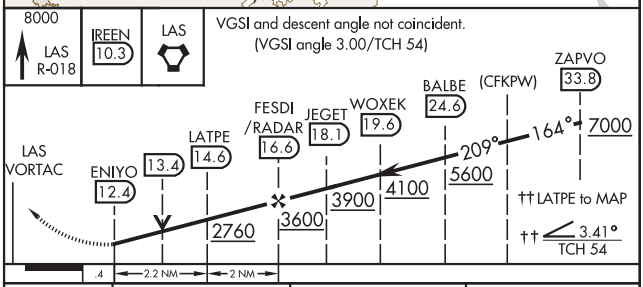
† CAUTION: Missed Approach ATC Minimum Climb Rate to 8000

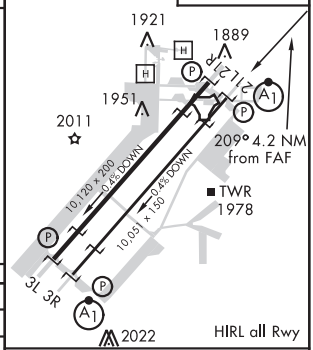
† MISSED APPROACH requires use of RNAV or ATC RADAR monitoring.

LAS VEGAS VORTAC DME not usable for missed approach holding.



SW-4, 05 NOV 2020 to 31 DEC 2020





CATEGORY	C	D	E
S-21L *	2360/50 495 (500-1)		
SIDESTEP 21R	2380-1⅜ 511 (600-1⅜)		
C CIRCLING **	2620-2¼ 751 (800-2¼)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)

FAF to MAP 4.2 NM

Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24

LAS VEGAS, NEVADA 36°14′N-115°02′W NELLIS AFB (KLSV)

Amdt 7 03JAN19

LOC Y RWY 21L

LAS VEGAS, NEVADA

TACAN X RWY 21L

NELLIS AFB (KLSV)

TACAN LSV Chan 12	APCH CRS 210°		21L	21R
		Rwy ldg	10,051	10,120
		TDZE	1865	1869
		Arpt Elev	1869	

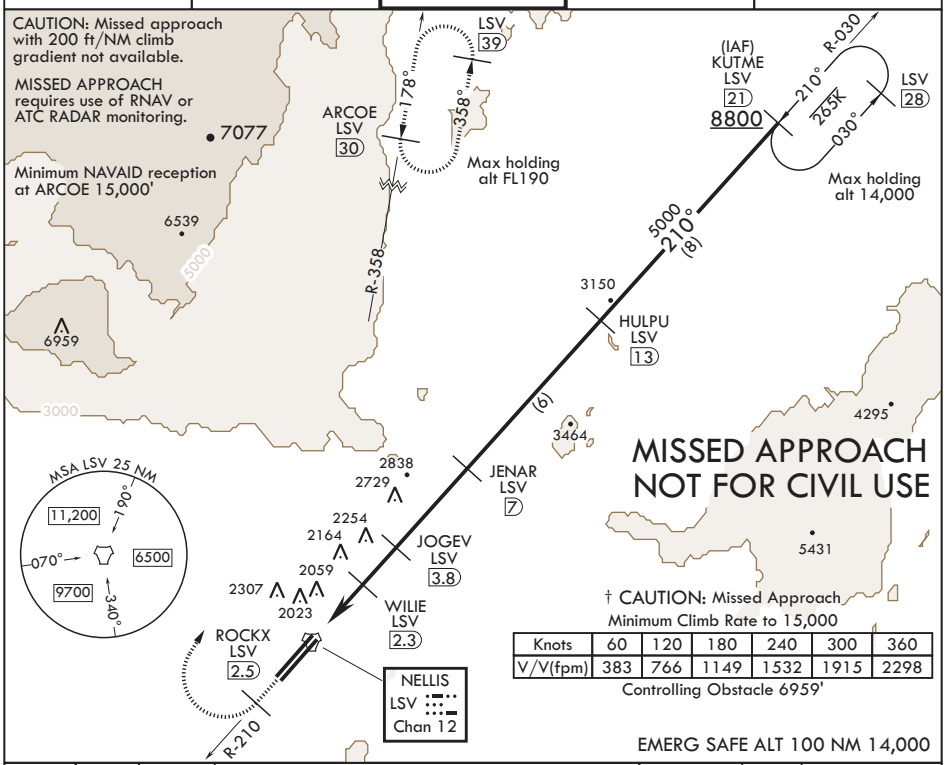
AL-227 (USAF)

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CDE vis to 1 3/4 miles.
** Circling not authorized E of Rwy 3R-21L.

Rwy 21L ALSF-1 (A1)

† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV TACAN R-358 to ARCOE and hold, continue climb in hold to 15,000. Missed approach not for civil use.

ATIS	APP CON	TOWER	GND CON	CLNC DEL
270.1	124.95 273.55	132.55 327.0	121.8 275.8	120.9 289.4

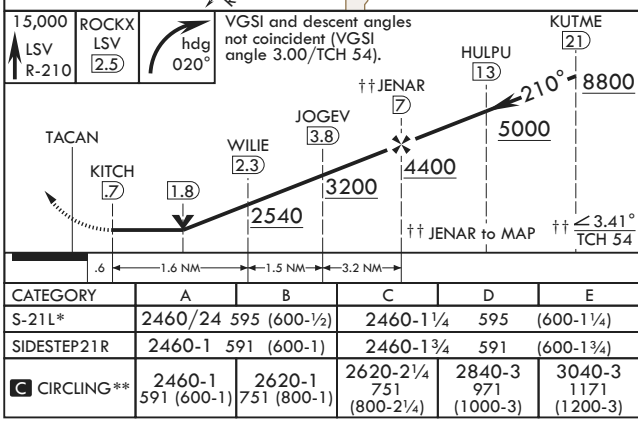


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

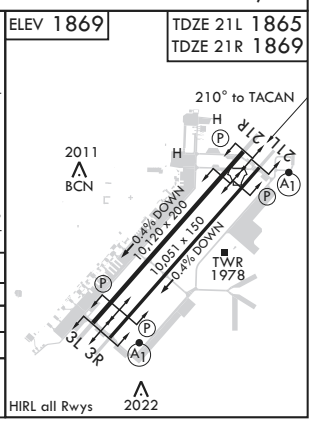
15,000 LSV R-210 | ROCKX LSV 2.5 | hdg 020°

VGSI and descent angles not coincident (VGSI angle 3.00/TCH 54).



ELEV 1869

TDZE 21L 1865
TDZE 21R 1869



CATEGORY	A	B	C	D	E
S-21L*	2460/24 595 (600-½)		2460-1¼ 595 (600-1¼)		
SIDESTEP21R	2460-1 591 (600-1)		2460-1¾ 591 (600-1¾)		
C CIRCLING**	2460-1 591 (600-1)	2620-1 751 (800-1)	2620-2¼ 751 (800-2¼)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)

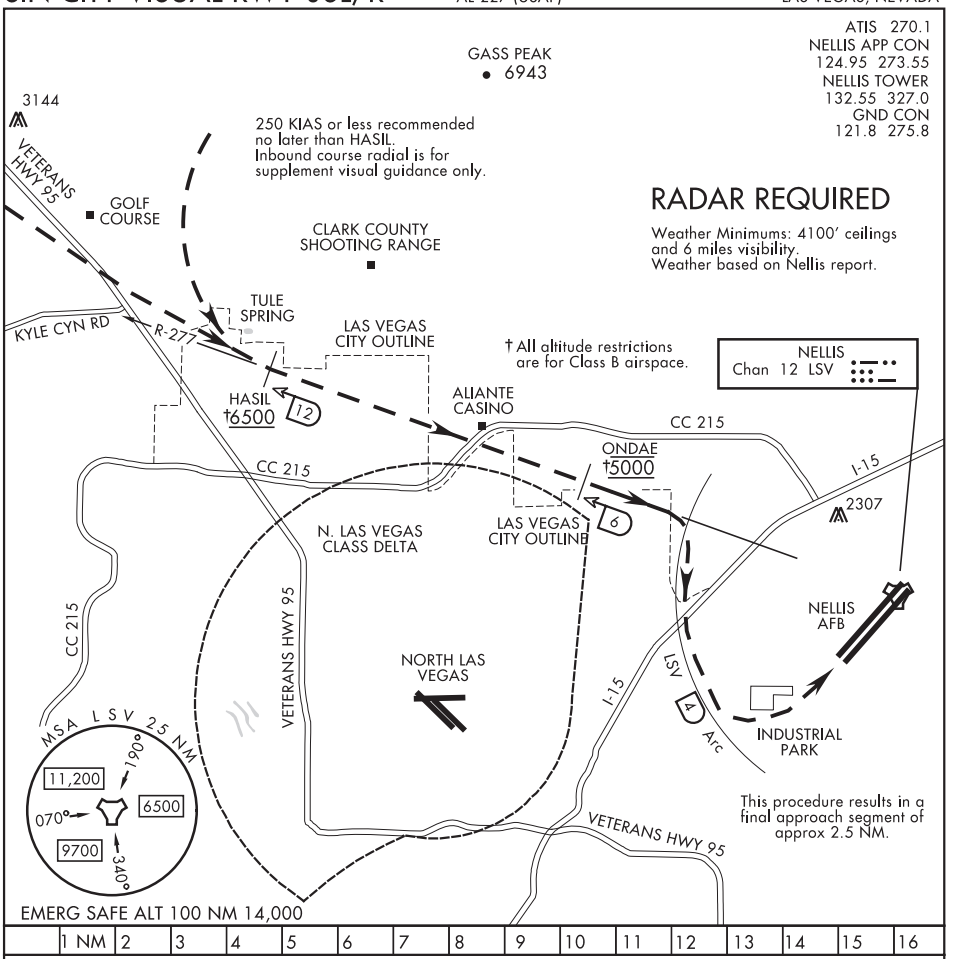
18088

NELLIS AFB (KLSV)

SIN CITY VISUAL RWY 03L/R

AL-227 (USAF)

LAS VEGAS, NEVADA



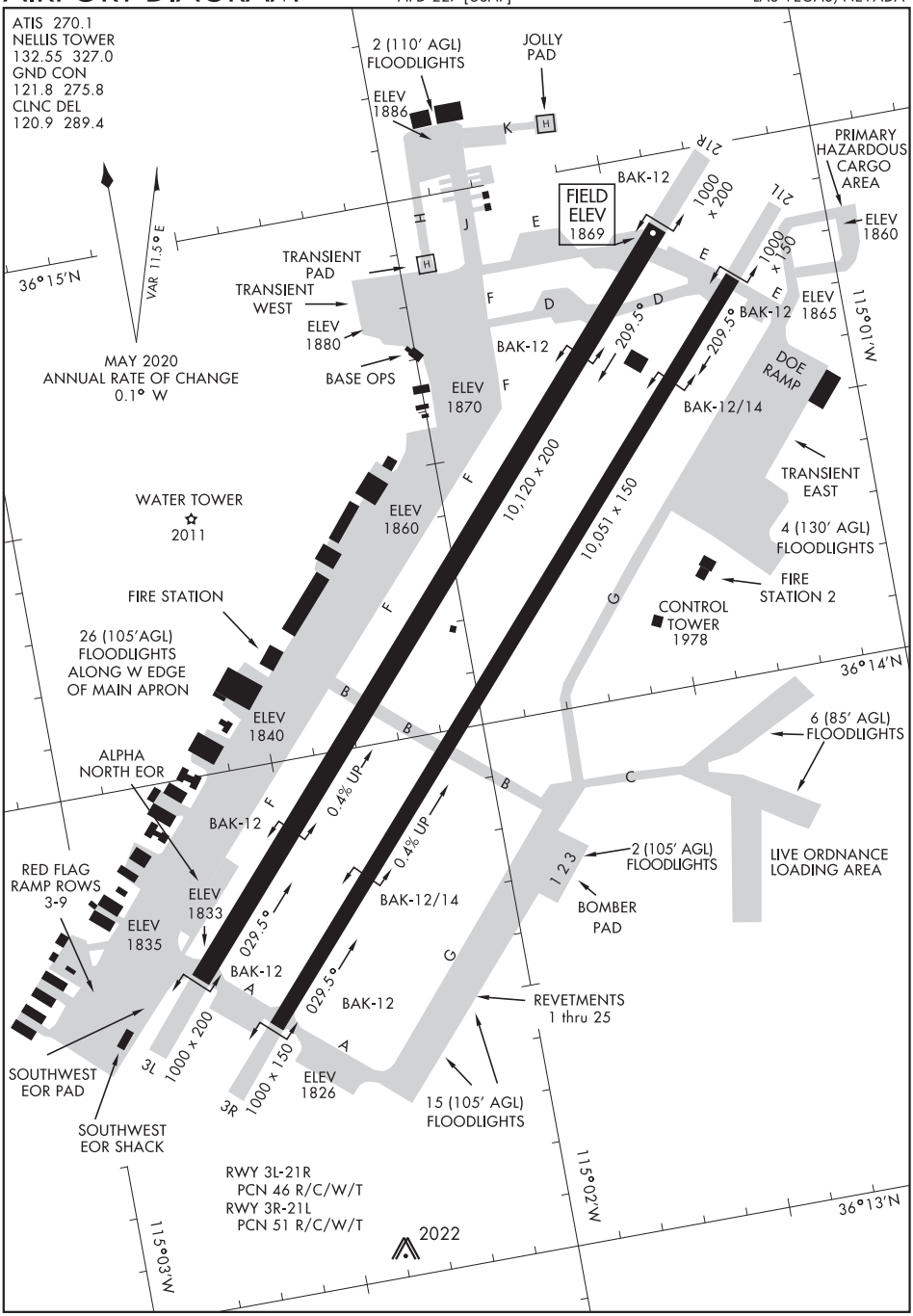
SIN CITY VISUAL RWY 03L/R

Expect RADAR vectors to HASIL (LSV TACAN R-277/12 DME) and report Northwest Las Vegas city outline in sight (ATC Clearance - "Cleared Sin City Visual Rwy 03 Approach") Cross HASIL at or above 6500, proceed visually via LSV R-277 and descend to cross ONDAE at 5000.

Based on traffic conditions, ATC may assign a different DME ond/or an altitude to maintain until estabilished visually on LSV R-277; pilots shall advise ATC if unable to comply with the revised clearance and any remaining published altitude restrictions. - example:"Cleared Sin City Visual Rwy 03 Approach via 10 DME, maintain (altitude) until estabilished inbound on LSV R-277".

Continue visual descent in right turn to join LSV TACAN 4 DME Arc until extended final Rwy 03. Make base turn to remin within 4 DME to protect against Las Vegas Approach airspace/traffic. Tower will assign either RWY 03 L/R.

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DREAM SIX DEPARTURE (DREAM6 • DREAM)

LAS VEGAS, NEVADA

ATIS 270.1
CLNC DEL
120.9 289.4
GND CON
121.8 275.8
NELLIS TOWER
132.55 327.0
NELLIS DEP CON
135.1 385.4

SHL-227 [USAF]

Rwy	Knots	60	120	180	240	300	360
* 3 L (a)	V/V(fpm)	269	538	807	1076	1345	1614
* 3 R (b)	V/V(fpm)	229	458	687	916	1145	1374
† 3 L (c)	V/V(fpm)	498	996	1494	1992	2490	2988
† 3 R (c)	V/V(fpm)	496	992	1488	1984	2480	2976
* 21 L (d)	V/V(fpm)	389	778	1167	1556	1945	2334
* 21 R (d)	V/V(fpm)	395	790	1185	1580	1975	2370
† 21 L (c)	V/V(fpm)	453	906	1359	1812	2265	2718
† 21 R (c)	V/V(fpm)	457	914	1371	1828	2285	2742

* Minimum † ATC Climb Rate

(a) to 3400
(b) to 3000
(c) to 17,000
(d) to 8500

NOT FOR CIVIL USE

DREAM
66
71
R-349
R-344
MINTT
17,000
JUNNO
17,000
38
44
LAS R-352
BLD R-340
9912
CAUTION: If unable to comply with restrictions advise ATC prior to departure.
① 12.24 NM from Rwy 21R
② 12.40 NM from Rwy 21L
③ 5.70 NM from Rwy 3L
④ 4.81 NM from Rwy 3R
344°
349°
① ② 6959
ATALF **
LSV 11.5
R-028
R-031
** Lead DME:
ATALF - LSV 9.5
HEREM - LSV 8.8
③ 3211
④ 2729
HEREM **
LSV 10.8
2086
NELLIS
Chan 12 LSV
1859
4131
LAS 7.5 Arc
R-349
R-344
LAS VEGAS
116.9 LAS
Chan 116
BOULDER CITY
116.7 BLD
Chan 114

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L: Fly runway heading to intercept the LSV TACAN R-028 then direct ATALF, intercept the BLD VORTAC R-344 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 3R: Fly runway heading to intercept the LSV TACAN R-031 then direct HEREM, intercept the BLD VORTAC R-344 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 21L/R: Turn right to intercept LAS VORTAC R-349 outbound. Remain North of LAS 7.5 DME turning Northbound. Intercept LAS R-349 between 5000 and 6000, do not proceed West of LAS R-349. Cross MINTT at above 17,000, then via assigned route.

NOISE ABATEMENT PROCEDURES: Fly IAW Nellis Noise Abatement instructions published in AP/1.

SW-4, 05 NOV 2020 to 31 DEC 2020

FYTTR FIVE DEPARTURE (FYTTR5 • FYTTR)

SHL-227 [USAF]

NELLIS AFB (KLSV)
LAS VEGAS, NEVADA

ATIS
270.1
CLNC DEL
120.9 289.4
GND CON
121.8 275.8
NELLIS TOWER
132.55 327.0
NELLIS CONTROL
119.35 254.4
NELLIS DEP CON
135.1 385.4

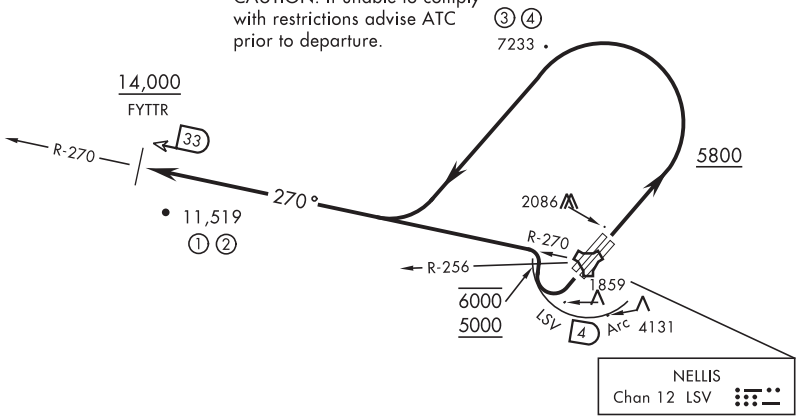
Rwy		Knots	60	120	180	240	300	360
3L	ⓐ	V/V(fpm)	394	788	1182	1576	1970	2364
3R	ⓐ	V/V(fpm)	392	784	1176	1568	1960	2352
21L	ⓑ	V/V(fpm)	388	776	1164	1552	1940	2328
21R	ⓑ	V/V(fpm)	390	780	1170	1560	1950	2340

Minimum Climb Rate
ⓐ to 9300
ⓑ to 13,500

① 29.84 NM from Rwy 21L
② 29.71 NM from Rwy 21R
③ 15.55 NM from Rwy 3L
④ 15.69 NM from Rwy 3R

RADAR REQUIRED ABOVE FL190
RADAR REQUIRED FOR
RWY 3L/R DEPARTURES

CAUTION: If unable to comply with restrictions advise ATC prior to departure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Fly runway heading until reaching 5800, then climbing left turn to intercept LSV TACAN R-270 outbound. Cross FYTTR at or above 14,000 or as assigned, then via assigned route.

TAKE-OFF RWY 21L/R: Turn right to intercept LSV TACAN R-270 outbound, remain within LSV 4 DME until joining LSV R-270, cross LSV R-256 between 5000 and 6000. Cross FYTTR at or above 14,000 or as assigned, then via assigned route.

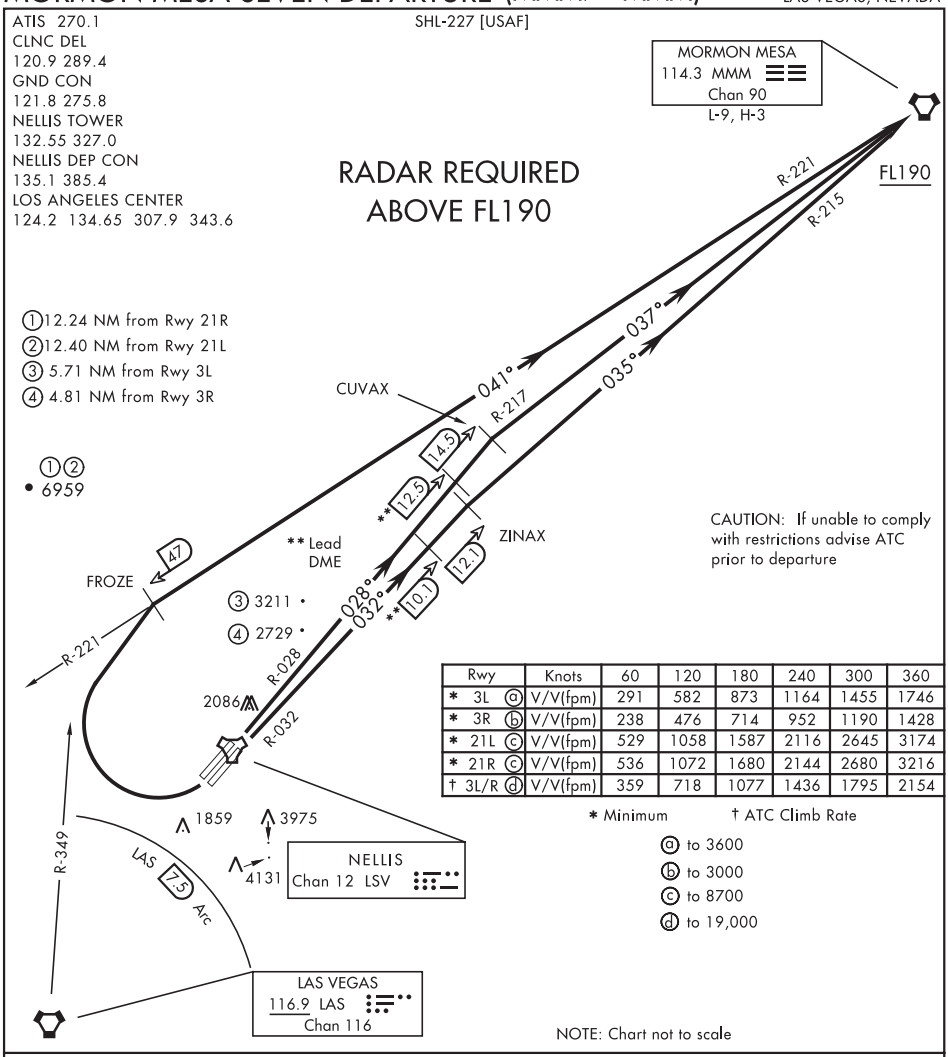
NOISE ABATEMENT PROCEDURES: Fly IAW Nellis Noise Abatement instructions published in AP/1.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

MORMON MESA SEVEN DEPARTURE (MMM7 • MMM)

NELLIS AFB (KLSV)
LAS VEGAS, NEVADA



Rwy	Knots	60	120	180	240	300	360
* 3L ⓐ	V/V(fpm)	291	582	873	1164	1455	1746
* 3R ⓑ	V/V(fpm)	238	476	714	952	1190	1428
* 21L ⓒ	V/V(fpm)	529	1058	1587	2116	2645	3174
* 21R ⓒ	V/V(fpm)	536	1072	1680	2144	2680	3216
† 3L/R ⓓ	V/V(fpm)	359	718	1077	1436	1795	2154

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L: Fly runway heading to intercept LSV TACAN R-028 then direct CUVAX, intercept the MMM VORTAC R-217 then direct MMM climbing to FL190 or as assigned, then via assigned route.

TAKE-OFF RWY 3R: Fly runway heading to intercept LSV TACAN R-032 then direct ZINAX, intercept the MMM VORTAC R-215 then direct MMM climbing to FL190 or as assigned, then via assigned route.

TAKE-OFF RWY 21L/R: Turn right to intercept MMM VORTAC R-221 prior to MMM 47 DME (FROZE), remain north of the LAS VORTAC 7.5 DME, remain East of LAS R-349, intercept MMM R-221 then direct MMM, cross MMM at or above FL190 then via assigned route.

NOISE ABATEMENT PROCEDURES: Fly IAW Nellis Noise Abatement instructions published in AP/1.

MORMON MESA SEVEN DEPARTURE (MMM7 • MMM)
Amdt 6 26MAR20
LAS VEGAS, NEVADA
NELLIS AFB (KLSV)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 63221 W17A	APP CRS 168°	Rwy ldg 6300 TDZE 5005 Apt Elev 5022

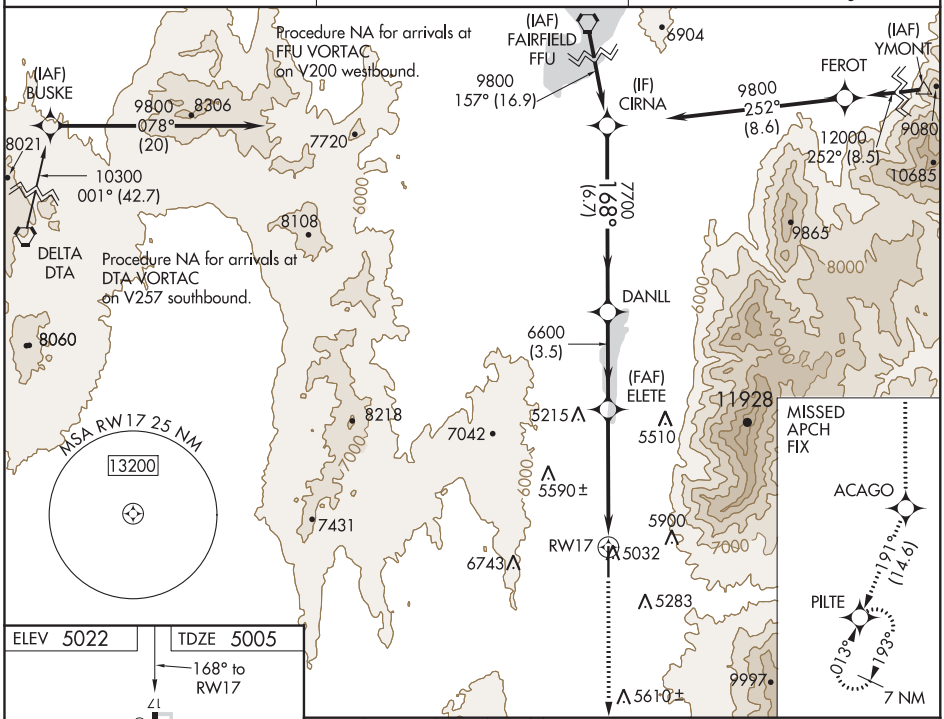
RNAV (GPS) RWY 17

NEPHI MUNI (U14)

T NA Baro-VNAV NA when using Provo Muni altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 12°C (53°F). When local altimeter setting not received, use Provo Muni altimeter setting and increase all DA 142 feet; increase all MDA 160 feet and visibility all Cats ½ mile. Circling NA for Cat D east of Rwy 17-35. DME/DME RNP-0.3 NA. VDP NA with Provo Muni altimeter setting.

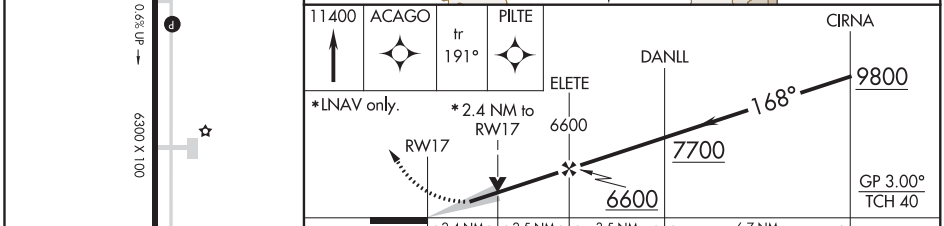
MISSED APPROACH: Climb to 11400 direct ACAGO and on track 191° to PILTE and hold.

AWOS-3	SALT LAKE CENTER	UNICOM
118.275	127.825 239.025	123.075 (CTAF) L



ELEV 5022	TDZE 5005

168° to RW17



CATEGORY	A	B	C	D
LPV DA	5433-1½ 428 (400-1½)			
LNAV/VNAV DA	5692-2½ 687 (700-2½)			
LNAV MDA	5800-1 795 (800-1)	5800-1¼ 795 (800-1¼)	5800-2½ 795 (800-2½)	
CIRCLING	5800-1 778 (800-1)	5800-1¼ 778 (800-1¼)	5800-2½ 778 (800-2½)	

MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

NEPHI, UTAH | AL-9496 (FAA) | 18144

WAAS CH 58221 W35A	APP CRS 348°	Rwy ldg 6300 TDZE 5022 Apt Elev 5022

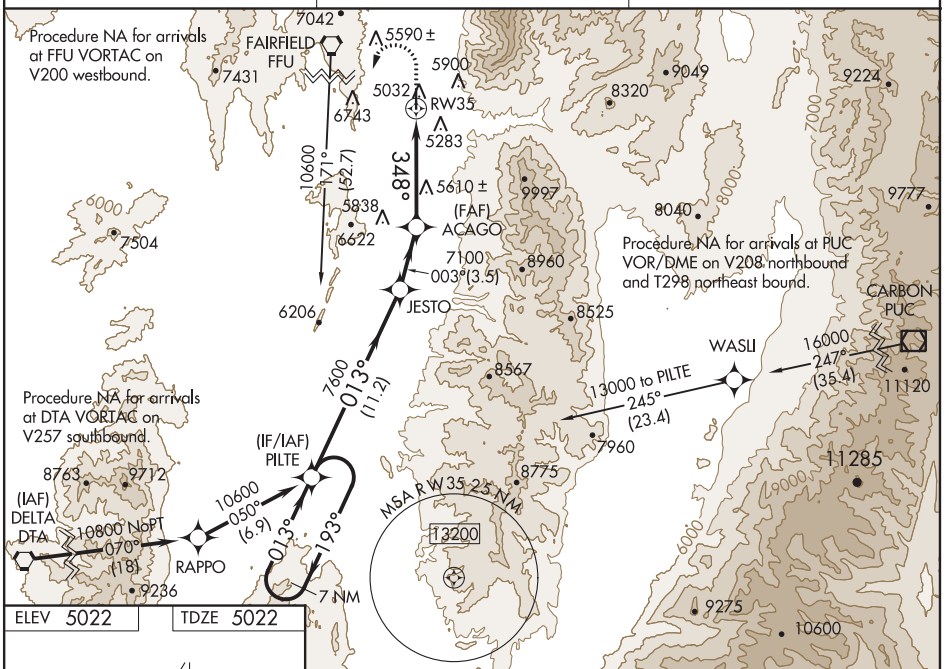
RNAV (GPS) RWY 35
NEPHI MUNI (U14)

T A NA

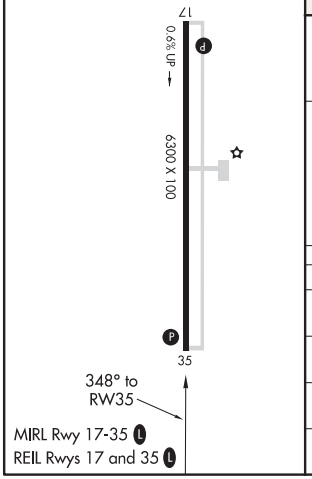
Baro-VNAV NA when using Provo altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 12°C (53°F). Circling NA for Cat D east of Rwy 17-35. Rwy 35 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. VDP NA with Provo altimeter setting. When local altimeter setting not received, use Provo altimeter setting and increase all DA 142 feet; increase all MDA 160 feet and visibility all Cats ½ SM.

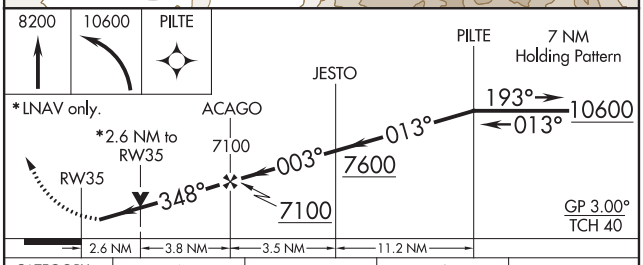
MISSED APPROACH: Climb to 8200 then climbing left turn to 10600 direct PILTE and hold.

AWOS-3	SALT LAKE CENTER	UNICOM
118.275	127.825 239.025	123.075 (CTAF) L



ELEV 5022 | TDZE 5022





CATEGORY	A	B	C	D
LPV DA	5272-⅞ 250 (300-⅞)			
LNAV/VNAV DA	5596-2 574 (600-2)			
LNAV MDA	5900-1 878 (900-1)	5900-1¼ 878 (900-1¼)	5900-2½ 878 (900-2½)	
CIRCLING	5900-1¼ 878 (900-1¼)		5900-2½ 878 (900-2½)	5900-2¾ 878 (900-2¾)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

NEPHI, UTAH
Orig-B 01FEB18

39°44'N-111°52'W

NEPHI MUNI (U14)
RNAV (GPS) RWY 35

NEPHI TWO DEPARTURE (OBSTACLE) (RNAV)

AL-9496 (FAA)

SALT LAKE CENTER
127.825 239.025

TAKEOFF OBSTACLE NOTES

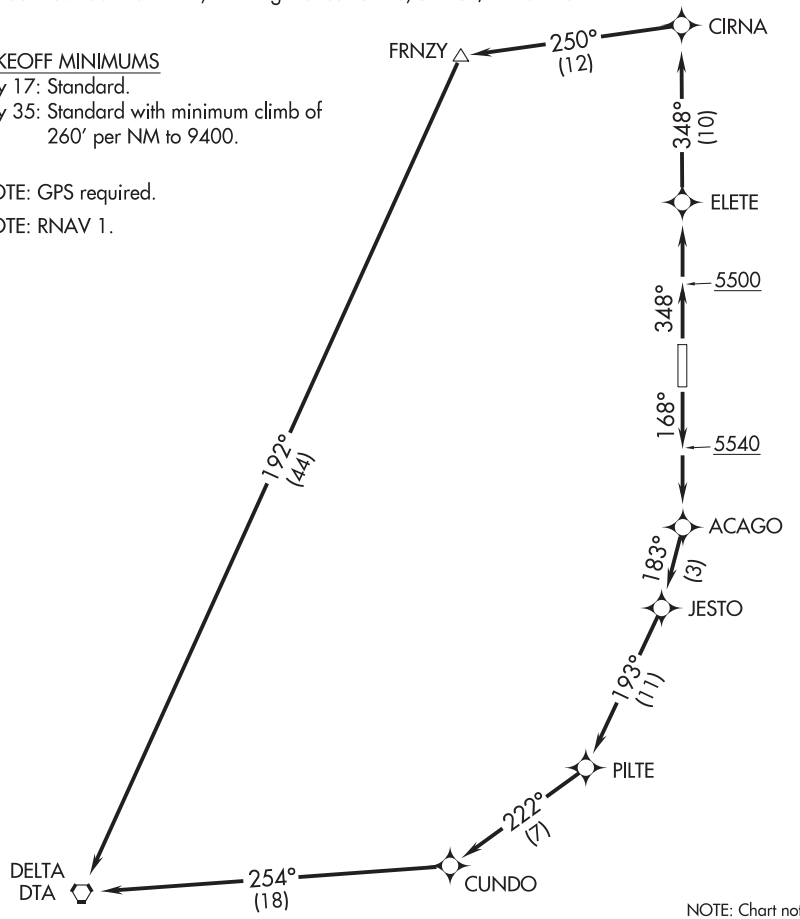
Rwy 17: Bush 11′ from DER, 101′ left of centerline, 4′ AGL/5024′ MSL.
Bush 92′ from DER, 509′ left of centerline, 5′ AGL/5025′ MSL.
Pole 1021′ from DER, 498′ right of centerline, 35′ AGL/5053′ MSL.
Pole 1223′ from DER, 202′ right of centerline, 35′ AGL/5058′ MSL.
Tree 2250′ from DER, 1009′ right of centerline, 85′ AGL/5099′ MSL.
Rwy 35: Bush 68′ from DER, 499′ right of centerline, 5′ AGL/4990′ MSL.

TAKEOFF MINIMUMS

Rwy 17: Standard.
Rwy 35: Standard with minimum climb of 260′ per NM to 9400.

NOTE: GPS required.

NOTE: RNAV 1.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17: Climb heading 168° to 5540, then direct ACAGO, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 348° to 5500, then direct ELETE, thence. . . .

. . . .on depicted route to DTA VORTAC. Climb to 11000 or ATC assigned altitude.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

NOGALES, ARIZONA | AL-6151 (FAA) | 20310

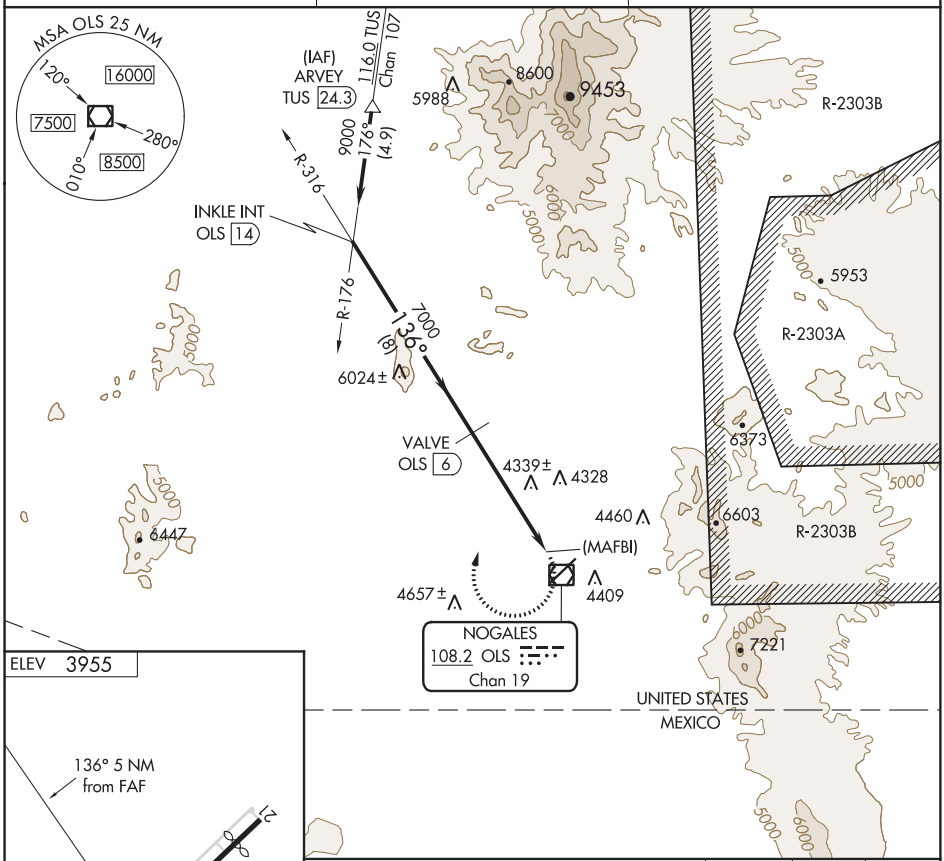
VOR/DME or GPS-B
NOGALES INTL (OLS)

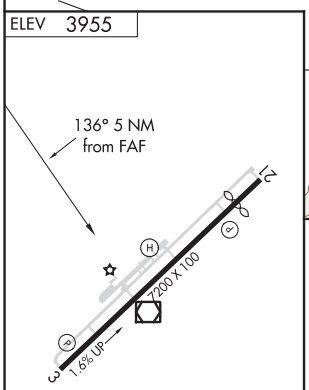
VOR/DME OLS	APP CRS	Rwy ldg	N/A
108.2	136°	TDZE	N/A
Chan 19		Apt Elev	3955

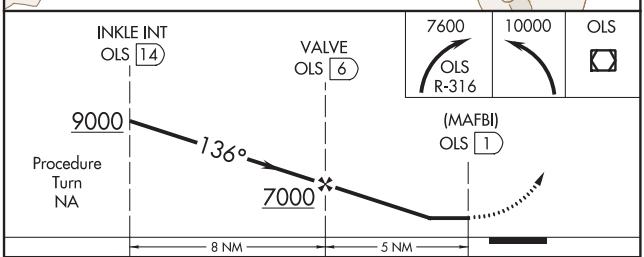
Night landing Rwy 21 NA.
Helicopter visibility reduction below 1 SM not authorized.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 7600 via OLS R-316 then climbing left turn to 10000 direct OLS VOR/DME.

ASOS	TUCSON APP CON	UNICOM
121.125	118.75 269.55	122.8 (CTAF)







CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1245 (1300-1¼)	5200-1½ 1245 (1300-1½)	5200-3 1245 (1300-3)	

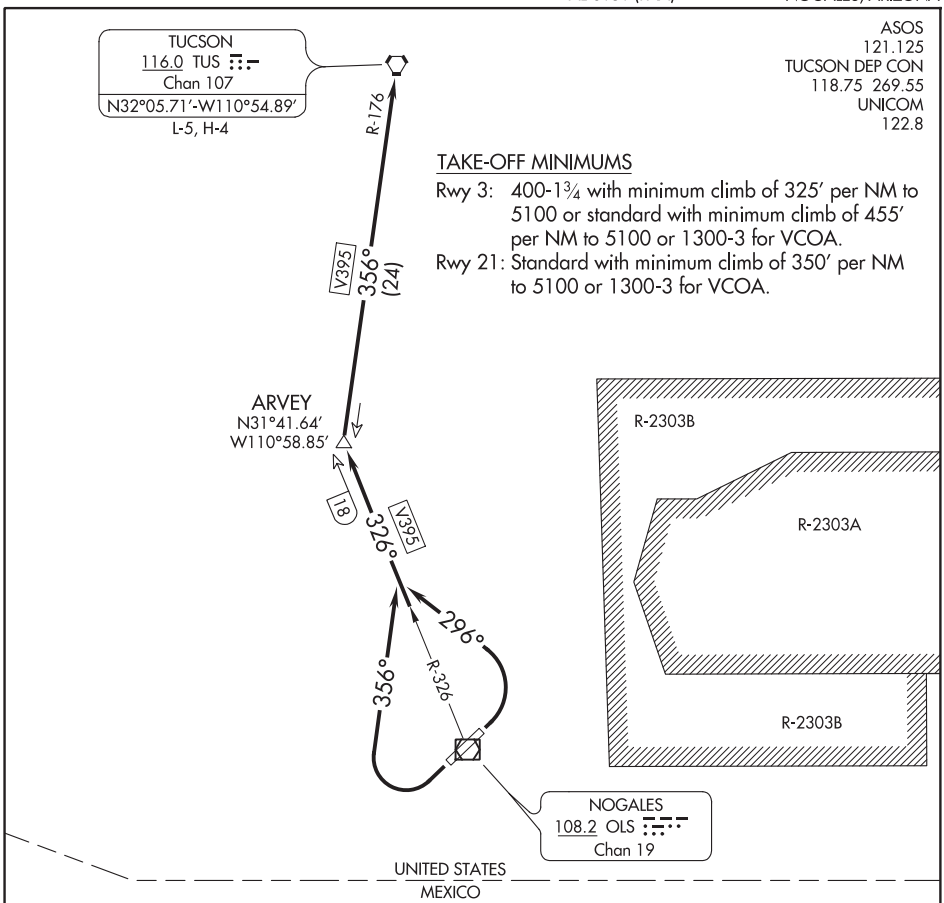
MIRL Rwy 3-21

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

NOGALES TWO DEPARTURE (OBSTACLE)

AL-6151 (FAA)



NOTE: Chart not to scale.

(NOTES CONTINUED ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 296° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, thence. . . .

TAKEOFF RUNWAY 21: Climb right turn heading 356° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, thence. . . .

VCOA ALL RUNWAYS: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Nogales Intl Airport at or above 6900 before proceeding on OLS R-326 to ARVEY INT/OLS 18 DME, thence. . . .

. . . .on TUS VORTAC R-176 to cross TUS VORTAC at or above MEA/MCA for assigned route of flight.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

TAKEOFF OBSTACLE NOTES

Rwy 3: Trees 58′ from DER, 455′ left of centerline, 3963′ MSL. Tree 80′ from DER, 174′ right of centerline, 6′ AGL/3958′ MSL. Trees beginning 97′ from DER, 446′ left of centerline, up to 15′ AGL/3964′ MSL. Tree 252′ from DER, 43′ right of centerline, 5′ AGL/3962′ MSL. Tree 261′ from DER, 463′ left of centerline, 3971′ MSL. Trees beginning 308′ from DER, 37′ right of centerline, up to 9′ AGL/ 3964′ MSL. Trees, fence beginning 334′ from DER, 136′ left of centerline, up to 3987′ MSL. Trees beginning 368′ from DER, 64′ right of centerline, up to 3991′ MSL. Tree, terrain beginning 603′ from DER, 546′ right of centerline, up to 3993′ MSL. Trees, fence, terrain beginning 659′ from DER, 13′ left of centerline, up to 3995′ MSL. Trees, terrain, fence beginning 833′ from DER, 103′ right of centerline, up to 4010′ MSL. Trees, terrain beginning 1179′ from DER, 118′ left of centerline, up to 5′ AGL/ 3996′ MSL. Trees, terrain beginning 1199′ from DER, 97′ right of centerline, up to 4036′ MSL. Trees, terrain beginning 1241′ from DER, 66′ left of centerline, up to 4018′ MSL. Trees, terrain beginning 1412′ from DER, 90′ right of centerline, up to 4043′ MSL. Traverse way, terrain beginning 1624′ from DER, 642′ left of centerline, up to 4028′ MSL. Terrain beginning 1637′ from DER, 2′ right of centerline, up to 4052′ MSL. Trees, traverse way, terrain beginning 1688′ from DER, 45′ left of centerline, up to 4035′ MSL. Terrain beginning 1825′ from DER, 38′ right of centerline, up to 4067′ MSL. Pole, traverse way, trees beginning 1853′ from DER, 475′ left of centerline, up to 21′ AGL/4043′ MSL. Terrain 2033′ from DER, 186′ left of centerline, 4047′ MSL. Trees, traverse way, terrain beginning 2041′ from DER, 74′ left of centerline, up to 7′ AGL/4052′ MSL. Terrain 2221′ from DER, 269′ left of centerline, 4055′ MSL. Tree, traverse way, terrain beginning 2253′ from DER, 170′ left of centerline, up to 18′ AGL/4080′ MSL. Terrain beginning 2354′ from DER, 20′ right of centerline, up to 4068′ MSL. Trees, traverse way, pole, terrain beginning 2491′ from DER; 55′ left of centerline, up to 14′ AGL/4093′ MSL. Terrain beginning 2539′ from DER, 125′ right of centerline, up to 4087′ MSL. Traverse way 2657′ from DER, 32′ left of centerline, 15′ AGL/ 4095′ MSL. Traverse way, trees, terrain beginning 2672′ from DER, 6′ left of centerline, up to 15′ AGL/4096′ MSL. Traverse way, terrain beginning 2688′ from DER, 2′ right of centerline, up to 15′ AGL/4096′ MSL. Terrain, traverse way beginning 2768′ from DER, 98′ right of centerline, up to 4112′ MSL. Traverse way 2987′ from DER, 530′ right of centerline, 4117′ MSL. Traverse way 2995′ from DER, 635′ right of centerline, 4121′ MSL. Traverse way, terrain beginning 3009′ from DER, 489′ right of centerline, up to 4123′ MSL. Tree, traverse way, terrain beginning 3351′ from DER, 12′ right of centerline, up to 4130′ MSL. Traverse way, terrain beginning 3449′ from DER, 633′ right of centerline, up to 4143′ MSL. Traverse way 3499′ from DER, 1364′ right of centerline, 4149′ MSL. Traverse way, terrain, vegetation beginning 3570′ from DER, 101′ right of centerline, up to 4155′ MSL. Tree, terrain beginning 3581′ from DER, 42′ left of centerline, up to 4112′ MSL. Terrain beginning 4127′ from DER, 627′ right of centerline, up to 4156′ MSL. Tree, terrain beginning 4143′ from DER, 768′ right of centerline, up to 4180′ MSL. Trees, terrain beginning 4262′ from DER, 426′ right of centerline, up to 4184′ MSL. Tree, terrain beginning 4495′ from DER, 709′ right of centerline, up to 4210′ MSL. Terrain beginning 4627′ from DER, 1171′ right of centerline, up to 4217′ MSL. Tree, terrain beginning 4737′ from DER, 216′ right of centerline, up to 4223′ MSL. Tree, terrain beginning 5806′ from DER, 409′ right of centerline, up to 4241′ MSL. Trees, terrain beginning 5953′ from DER, 420′ right of centerline, up to 4254′ MSL. Trees, terrain beginning 1 NM from DER, 58′ right of centerline, up to 4256′ MSL. Trees, terrain beginning 1 NM from DER, 1260′ left of centerline, up to 4136′ MSL. Trees, terrain beginning 1.1 NM from DER, 442′ left of centerline, up to 4151′ MSL. Pole, trees, terrain beginning 1.2 NM from DER, 164′ left of centerline, up to 16′ AGL/4221′ MSL. Trees, terrain beginning 1.3 NM from DER, 84′ left of centerline, up to 4254′ MSL. Trees, terrain beginning 1.4 NM from DER, 58′ right of centerline, up to 11′ AGL/ 4326′ MSL. Trees, terrain beginning 1.4 NM from DER, 25′ left of centerline, up to 11′ AGL/4283′ MSL. Trees, terrain beginning 1.5 NM from DER, 79′ right of centerline, up to 11′ AGL/4327′ MSL. Trees, terrain beginning 1.7 NM from DER, 639′ right of centerline, up to 4345′ MSL. Trees, terrain beginning 1.8 NM from DER, 172′ right of centerline, up to 4367′ MSL. Trees, terrain beginning 1.9 NM from DER, 628′ right of centerline, up to 4384′ MSL. Terrain, traverse way, trees beginning 2 NM from DER, 935′ right of centerline, up to 4406′ MSL. Terrain 2.1 NM from DER, 616′ left of centerline, 4299′ MSL. Trees, terrain, traverse way beginning 2.2 NM from DER, 1859′ right of centerline, up to 100′ AGL/4451′ MSL. Trees, traverse way, terrain beginning 2.2 NM from DER, 234′ left of centerline, up to 4359′ MSL. Trees, terrain, traverse way beginning 2.3 NM from DER, 835′ right of centerline, up to 14′ AGL/4535′ MSL.

Rwy 21: Tree 3′ from DER, 445′ left of centerline, 3847′ MSL. Tree 19′ from DER, 141′ left of centerline, 10′ AGL/3848′ MSL. Tree 29′ from DER, 339′ left of centerline, 3849′ MSL. Tree, vegetation beginning 45′ from DER, 201′ left of centerline, up to 17′ AGL/3851′ MSL. Tree 48′ from DER, 504′ right of centerline, 3845′ MSL. Trees, vegetation beginning 112′ from DER, 49′ right of centerline, up to 24′ AGL/3854′ MSL.

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 3
OGDEN-HINCKLEY (OGD)

LOC/DME I-OGD	APP CRS	Rwy ldg	7252
111.7	034°	TDZE	4473
Chan 54		Apt Elev	4473

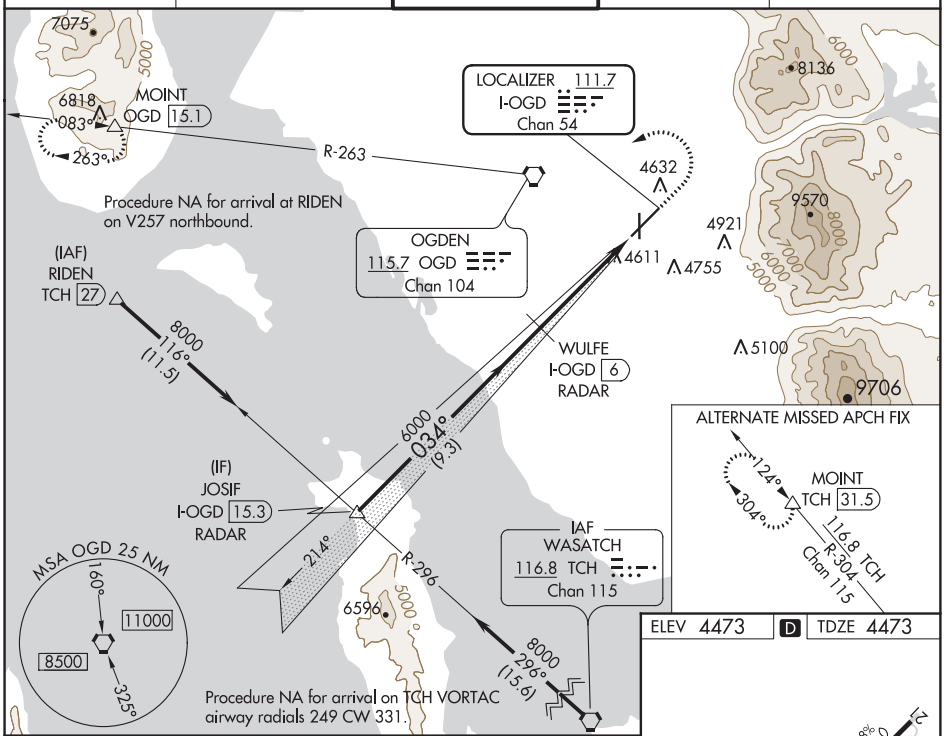
DME required. RADAR required for procedure entry.

Rwy 3 helicopter visibility reduction below ¾ SM NA. For inop ALS, increase S-ILS 3 all Cats visibility to ⅞ SM. For inop ALS, increase S-LOC 3 Cat C/D visibility to 1⅛ SM. Circling NA for Cats C and D east of Rwys 21 and 35.

MALS

MISSED APPROACH: Climb to 5000 then climbing left turn to 9000 direct OGD VORTAC and on OGD VORTAC R-263 to MOINT/OGD 15.1 DME and hold, continue climb-in-hold to 9000.

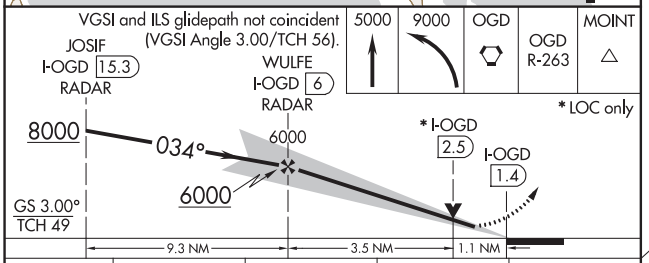
ATIS	SALT LAKE CITY APP CON	OGDEN TOWER*	GND CON	UNICOM
125.55	121.1 319.25	118.7 (CTAF) L 253.5	121.7	122.95

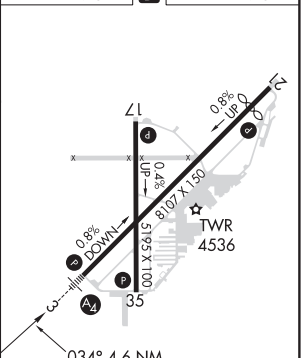


ELEV 4473 D TDZE 4473

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 56).

5000	9000	OGD	OGD R-263	MOINT





HIRL Rwy 3-21 L
MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

CATEGORY	A	B	C	D
S-ILS 3	4740-¾ 267 (300-¾)			
S-LOC 3	4880-¾ 407 (500-¾)		4880-1 407 (500-1)	
C CIRCLING	4980-1 507 (600-1)	5100-1 627 (700-1)	5100-1¾ 627 (700-1¾)	5180-2¼ 707 (800-2¼)

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

SW-4, 05 NOV 2020 to 31 DEC 2020

OGDEN, UTAH | AL-297 (FAA) | 20142

RNAV (GPS) RWY 3
OGDEN-HINCKLEY (OGD)

WAAS CH 65620 W03A	APP CRS 034°	Rwy ldg 7252 TDZE 4473 Apt Elev 4473

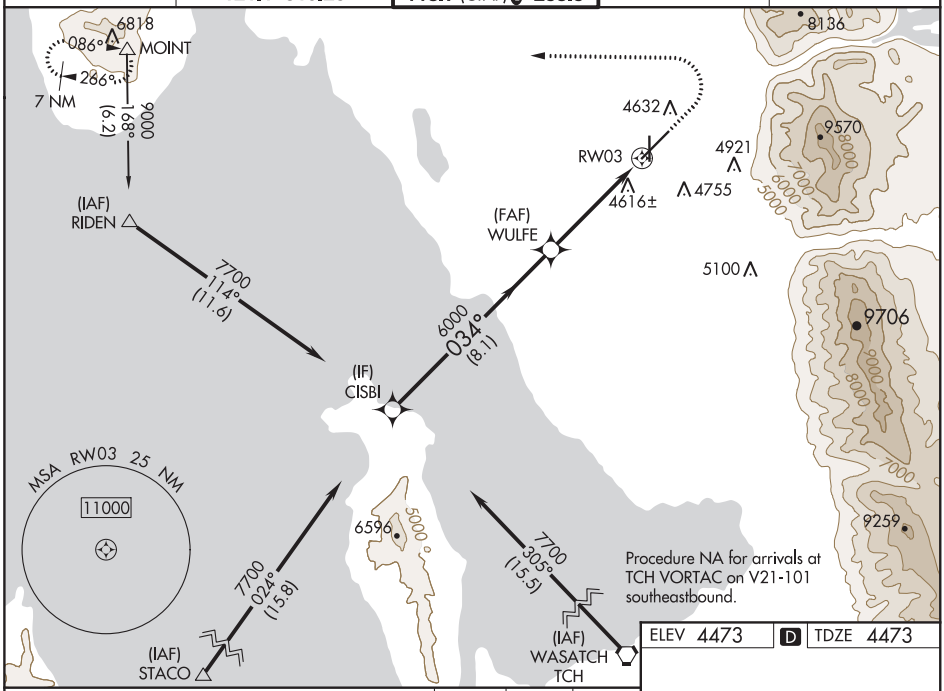
RNP APCH.

Baro-VNAV and VDP NA when using Hill AFB altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 50°C. When local altimeter setting not received, use Hill AFB altimeter setting. Circling NA for Cats C and D east of Rwys 21 and 35. For Inop ALS, increase LPV all Cats visibility to ⅞ SM, increase LNAV/VNAV all Cats and LNAV Cat C/D visibility to 1⅛ SM.

MALS

MISSED APPROACH: Climb to 5000 then climbing left turn to 9000 direct MOINT and hold, continue climb-in-hold to 9000.

ATIS	SALT LAKE CITY APP CON	OGDEN TOWER*	GND CON	UNICOM
125.55	121.1 319.25	118.7 (CTAF) L 253.5	121.7	122.95

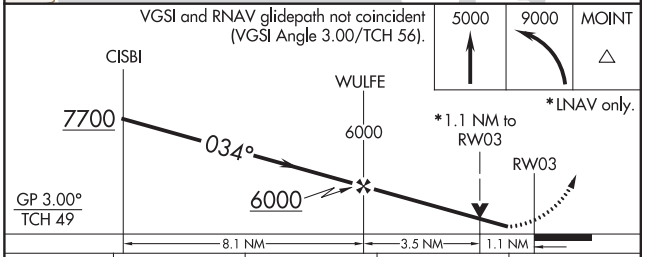


ELEV 4473 | D | TDZE 4473

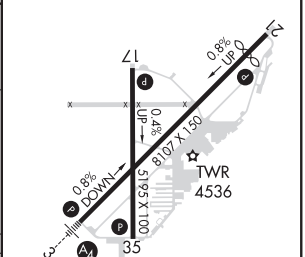
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 56).

5000	9000	MOINT

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	4741-¾ 268 (300-¾)			
LNAV/VNAV DA	4889-1 416 (500-1)			
LNAV MDA	4880-¾ 407 (500-¾)		4880-1 407 (500-1)	
C CIRCLING	4980-1 507 (600-1)	5100-1 627 (700-1)	5100-1¾ 627 (700-1¾)	5180-2¼ 707 (800-2¼)



HIRL Rwy 3-21 L
MIRL Rwy 17-35 L
REIL Rwys 17 and 35 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

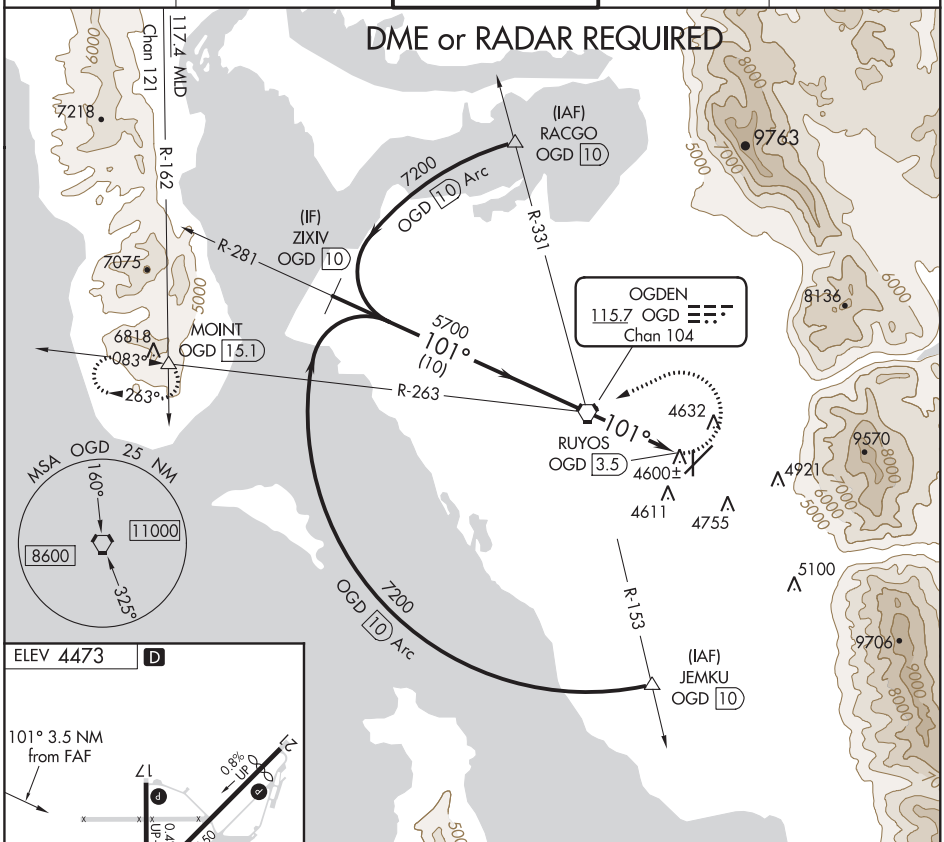
VOR-A
OGDEN-HINCKLEY (OGD)

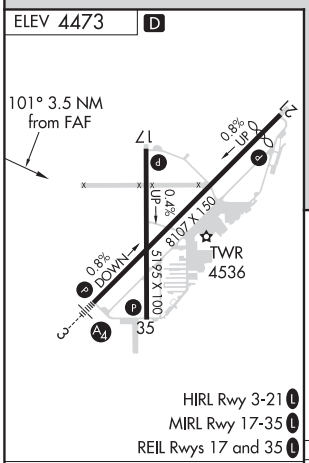
VORTAC OGD 115.7 Chan 104	APP CRS 101°	Rwy ldg N/A TDZE N/A Apt Elev 4473

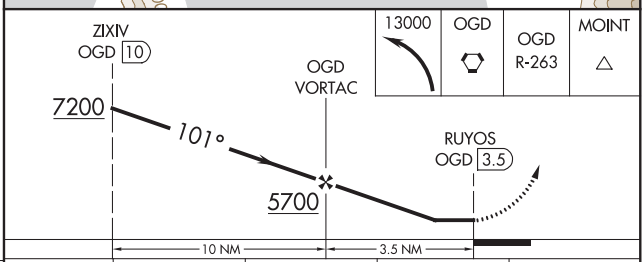
Circling to Rwy 17 NA at night.
Circling NA for Cat C/D east of Rwys 21 and 35.
Rwy 17 and 35 helicopter visibility reduction below 1 SM NA.
When local altimeter setting not received, use Hill AFB altimeter setting.

MISSED APPROACH: Climbing left turn to 13000 direct OGD VORTAC and on OGD VORTAC R-263 to MOINT INT/15.1 DME and hold, continue climb-in-hold to 13000.

ATIS	SALT LAKE CITY APP CON	OGDEN TOWER★	GND CON	UNICOM
125.55	121.1 319.25	118.7 (CTAF) L 253.5	121.7	122.95







FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10

CATEGORY	A	B	C	D
C CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5100-1¾ 627 (700-1¾)	5100-2 627 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

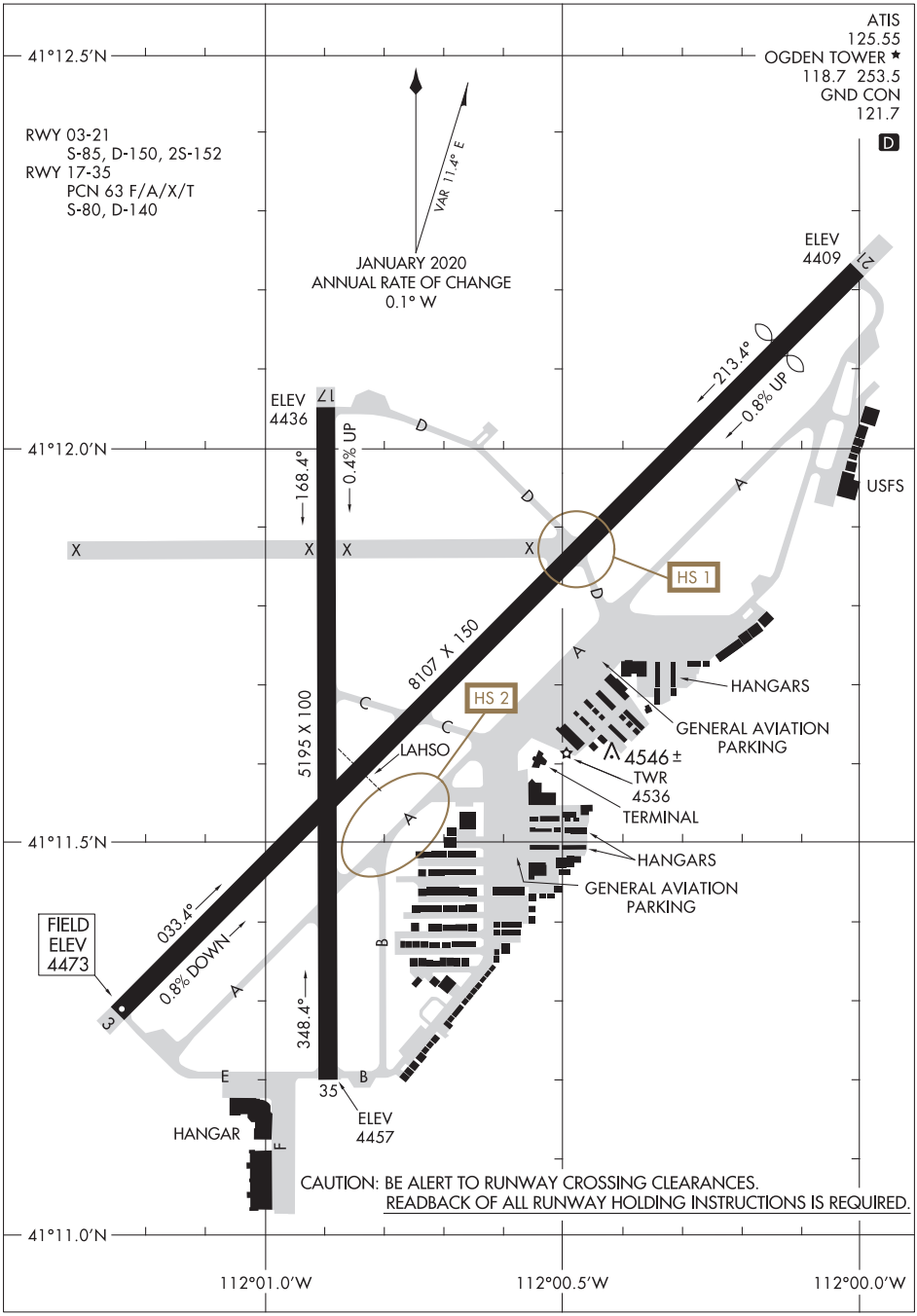
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-297 (FAA)

OGDEN-HINCKLEY (OGD)
OGDEN, UTAH

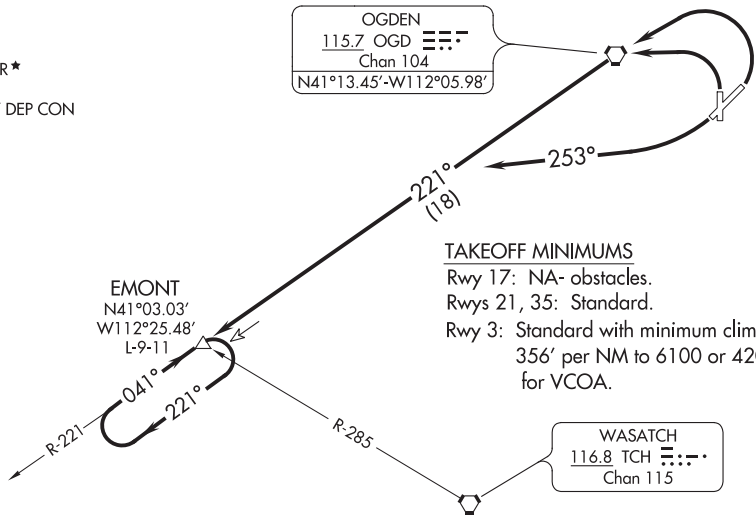


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
OGDEN, UTAH
OGDEN-HINCKLEY (OGD)

ATIS
125.55
GND CON
121.7
OGDEN TOWER ★
118.7 253.5
SALT LAKE CITY DEP CON
121.1 319.25



TAKEOFF MINIMUMS

Rwy 17: NA- obstacles.
Rwys 21, 35: Standard.
Rwy 3: Standard with minimum climb of 356′ per NM to 6100 or 4200-3 for VCOA.

TAKEOFF OBSTACLE NOTES

Rwy 3: Navaid, vehicle on road beginning 195′ from DER, 267′ right of centerline, up to 17′ AGL/4426′ MSL.
Pole 241′ from DER, 535′ left of centerline, 39′ AGL/4447′ MSL.
Pole 348′ from DER, 582′ right of centerline, 41′AGL/4451 MSL.
Trees, building beginning 375′ from DER, 62′ left of centerline, up to 4451′ MSL.
Tree, pole beginning 430′ from DER, 502′ right of centerline, up to 4455′ MSL.
Rwy 21: Tree 702′ from DER, 649′ left of centerline, 4492′ MSL.
Tree 1133′ from DER, 701′ left of centerline, 4513′ MSL.
Trees, building, pole beginning 2074′ from DER, 792′ left of centerline, up to 4570′ MSL.
Tree 3429′ from DER, 421′ right of centerline, 4561′ MSL.
Rwy 35: Tree 209′ from DER, 185′ left of centerline, 4446′ MSL.
Tree 243′ from DER, 233′ left of centerline, 4447′ MSL.
Trees beginning 292′ from DER, 87′ right of centerline, up to 4454′ MSL.
Tree 686′ from DER, 397′ right of centerline, 4479′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn direct OGD VORTAC then on OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
VCOA RUNWAY 3: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross OGD VORTAC southwest bound at or above 8500, then on OGD R-221 to EMONT, thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 253° to intercept OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
TAKEOFF RUNWAY 35: Climbing left turn direct OGD VORTAC then on OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .

. . . .Climb in EMONT INT holding pattern to MEA for assigned route of flight.

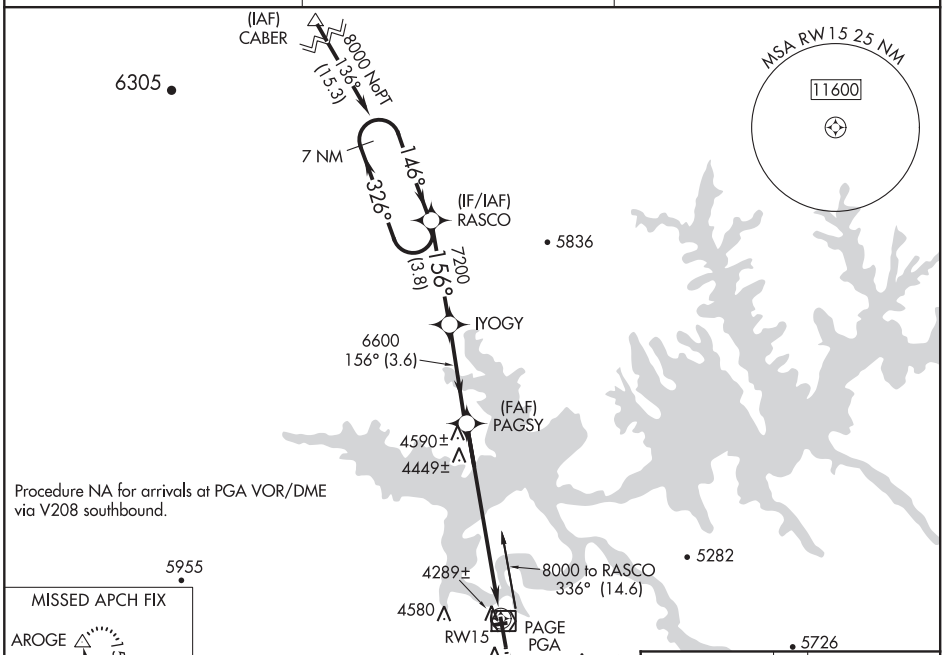
WAAS CH 45604 W15A	APP CRS 156°	Rwy ldg 5950 TDZE 4264 Apt Elev 4316

RNAV (GPS) RWY 15
PAGE MUNI (PGA)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 41°C (105° F). DME/DME RNP-0.3 NA. Circling NA to Rwy 7-25

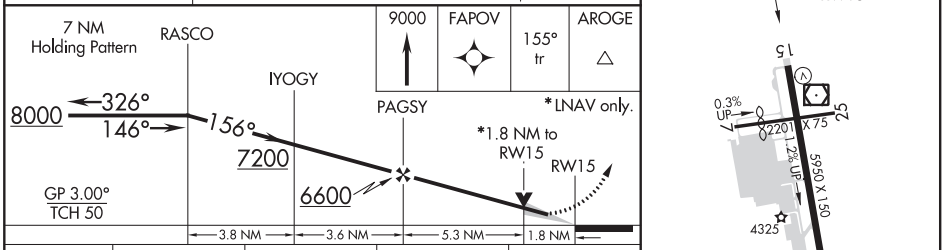
MISSED APPROACH: Climb to 9000 direct FAPOV and via 155° track to AROGE and hold, continue climb-in-hold to 9000.

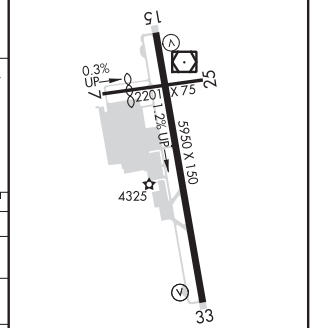
ASOS	DENVER CENTER	UNICOM
120.625	127.55 256.875	122.8 (CTAF) L



ELEV 4316 D TDZE 4264

156° to RW15





CATEGORY	A	B	C	D
LPV DA	4599-1¼ 335 (300-1¼)			
LNAV/VNAV DA	4670-1½ 406 (400-1½)			
LNAV MDA	4860-1 596 (600-1)		4860-1½ 596 (600-1½)	4860-1¾ 596 (600-1¾)
CIRCLING	4860-1 544 (600-1)		4860-1½ 544 (600-1½)	4920-2 604 (700-2)

REIL Rwys 15 and 33 L
MIRL Rwy 15-33 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

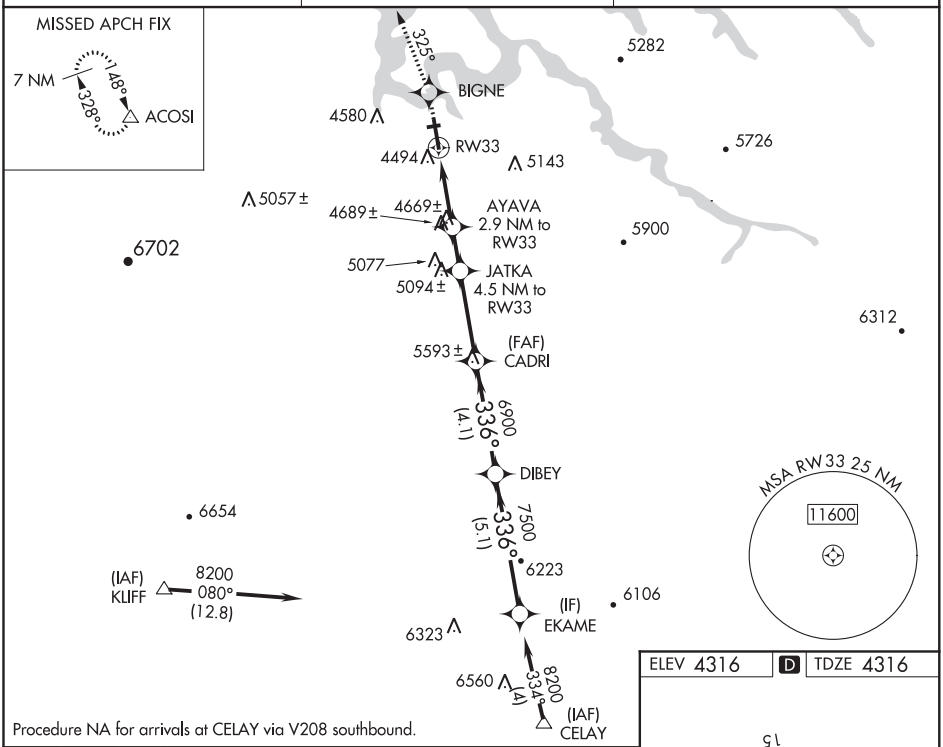
WAAS CH 69204 W33A	APP CRS 336°	Rwy ldg 5950 TDZE 4316 Apt Elev 4316

RNAV (GPS) RWY 33
PAGE MUNI (PGA)

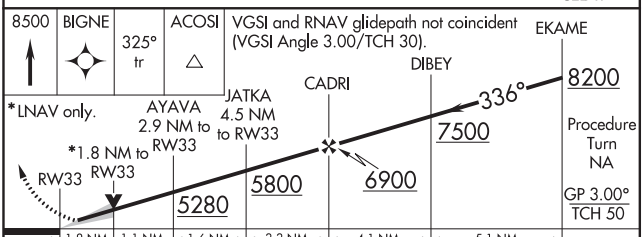
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 41°C (105°F). DME/DME RNP-0.3 NA. Circling NA to Rwy 7-25.

MISSED APPROACH: Climb to 8500 direct BIGNE and via 325° track to ACOSI and hold, continue climb-in-hold to 8500.

ASOS	DENVER CENTER	UNICOM
120.625	127.55 256.875	122.8 (CTAF) L

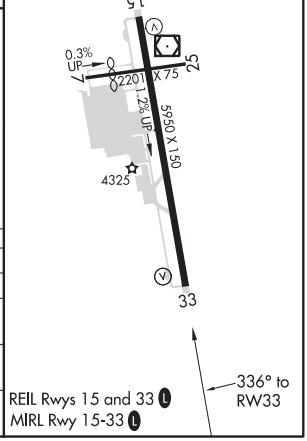


Procedure NA for arrivals at CELAY via V208 southbound.



CATEGORY	A	B	C	D
LPV DA	4566-1 250 (300-1)			
LNAV/VNAV DA	4744-1½ 428 (500-1½)			
LNAV MDA	4920-1 604 (700-1)		4920-1¾ 604 (700-1¾)	4920-2 604 (700-2)
CIRCLING	4920-1 604 (700-1)		4920-1¾ 604 (700-1¾)	4920-2 604 (700-2)

ELEV 4316 D TDZE 4316



SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

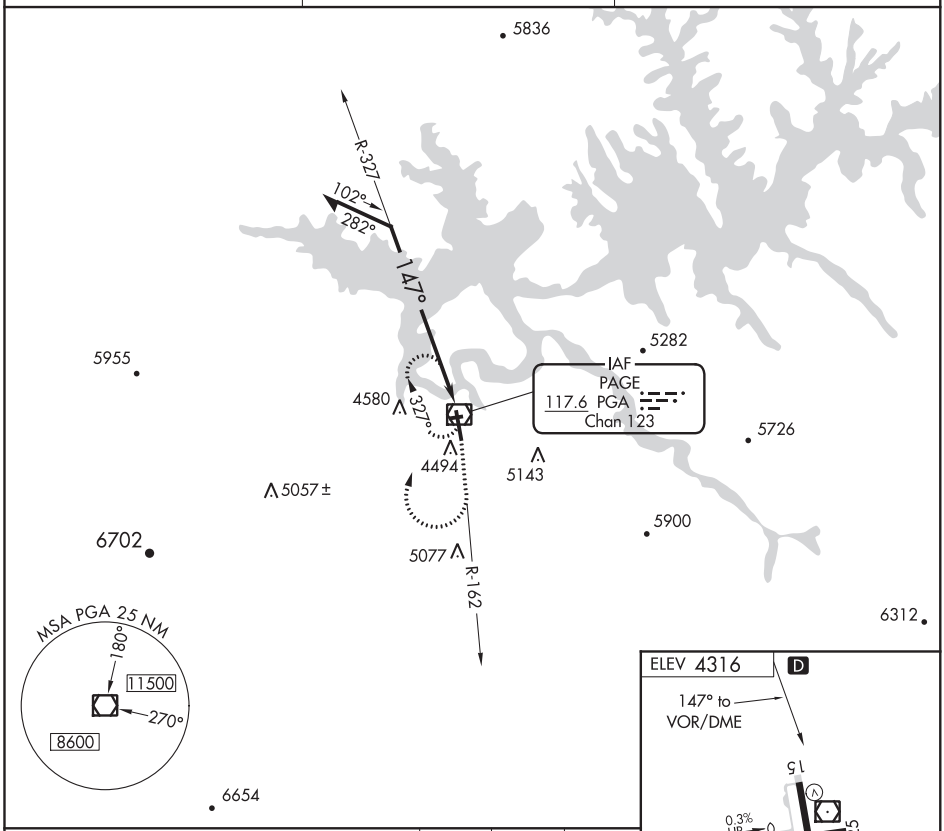
VOR/DME PGA	APP CRS	Rwy ldg	N/A
117.6	147°	TDZE	N/A
Chan 123		Apt Elev	4316

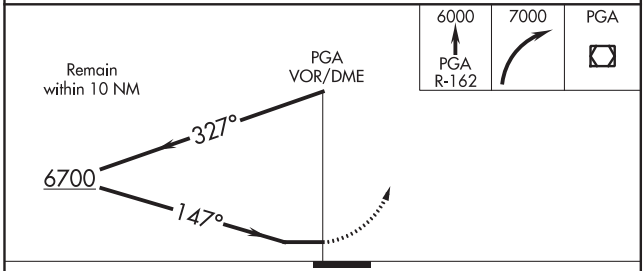
VOR-B
PAGE MUNI (PGA)

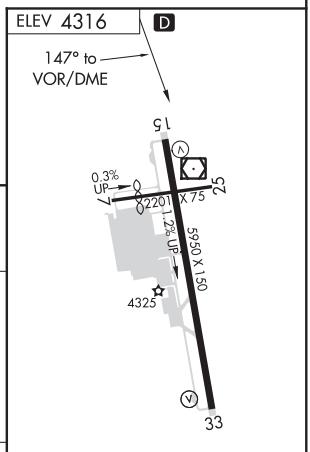
T
A NA Circling NA to Rwy 7-25.

MISSED APPROACH: Climb on the PGA R-162 to 6000, then climbing right turn to 7000 direct PGA VOR/DME and hold.

ASOS	DENVER CENTER	UNICOM
120.625	127.55 256.875	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 884 (900-1¼)		5200-2¾ 884 (900-2¾)	5200-3 884 (900-3)

REIL Rwys 15 and 33 L
MIRL Rwy 15-33 L

SW-4, 05 NOV 2020 to 31 DEC 2020

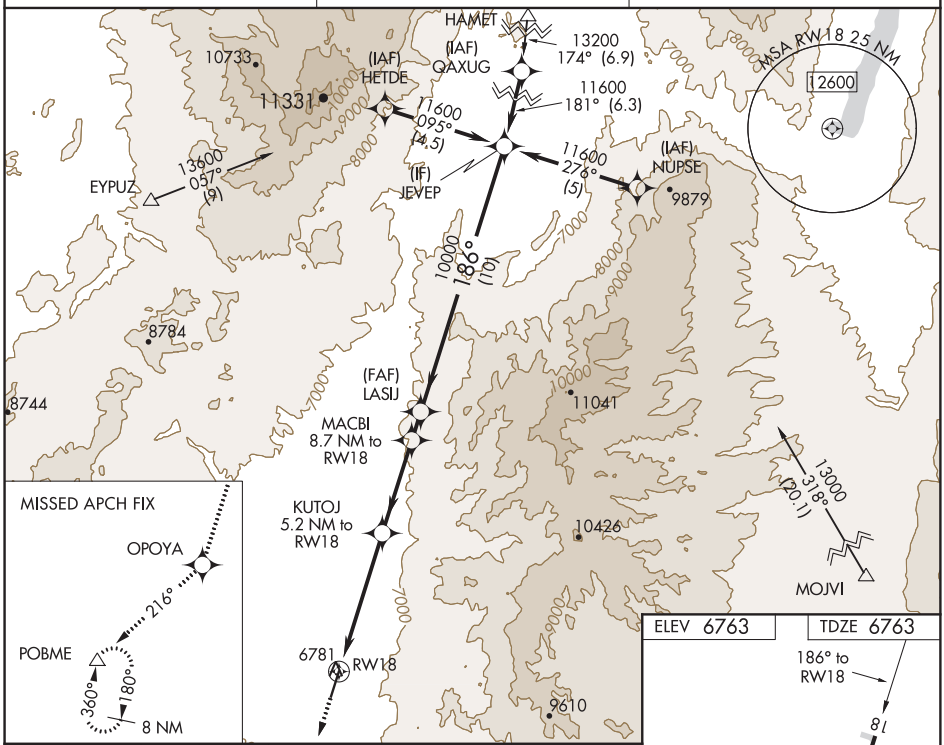
WAAS CH 82418 W18A	APP CRS 186°	Rwy ldg 5700 TDZE 6763 Apt Elev 6763

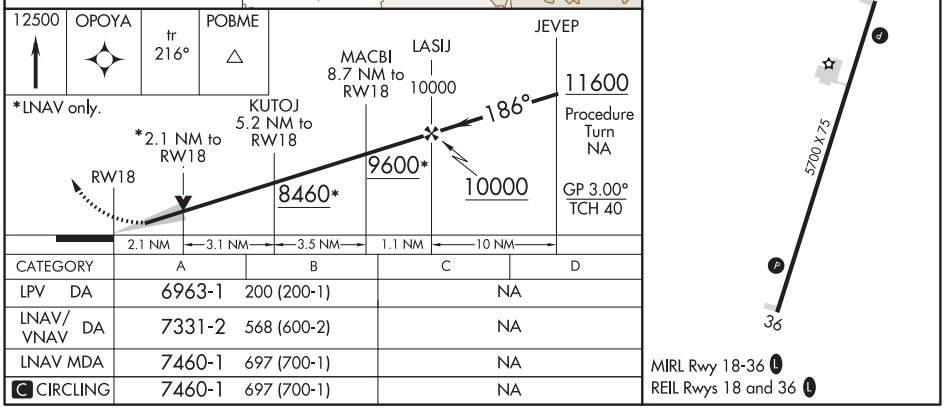
RNAV (GPS) RWY 18
PANGUITCH MUNI (U55)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received use Bryce Canyon altimeter setting and increase all DA 149 feet and all MDA 160 feet, increase LPV visibility ¼ mile and increase LNAV visibility and Circling Cat B visibility ¼ mile. Baro-VNAV and VDP NA with Bryce Canyon altimeter setting. -28°C

MISSED APPROACH: Climb to12500 direct OPOYA and on track 216° to POBME and hold, continue climb-in-hold 12500.

AWOS-3	SALT LAKE CENTER	CTAF
133.125	133.6 269.25	122.9 L





CATEGORY	A	B	C	D
LPV DA	6963-1	200 (200-1)	NA	
LNAV/VNAV DA	7331-2	568 (600-2)	NA	
LNAV MDA	7460-1	697 (700-1)	NA	
C CIRCLING	7460-1	697 (700-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

PANGUITCH, UTAH

AL-9439 (FAA)

20254

APP CRS	Rwy ldg	5700
005°	TDZE	6757
	Apt Elev	6763

RNAV (GPS) RWY 36

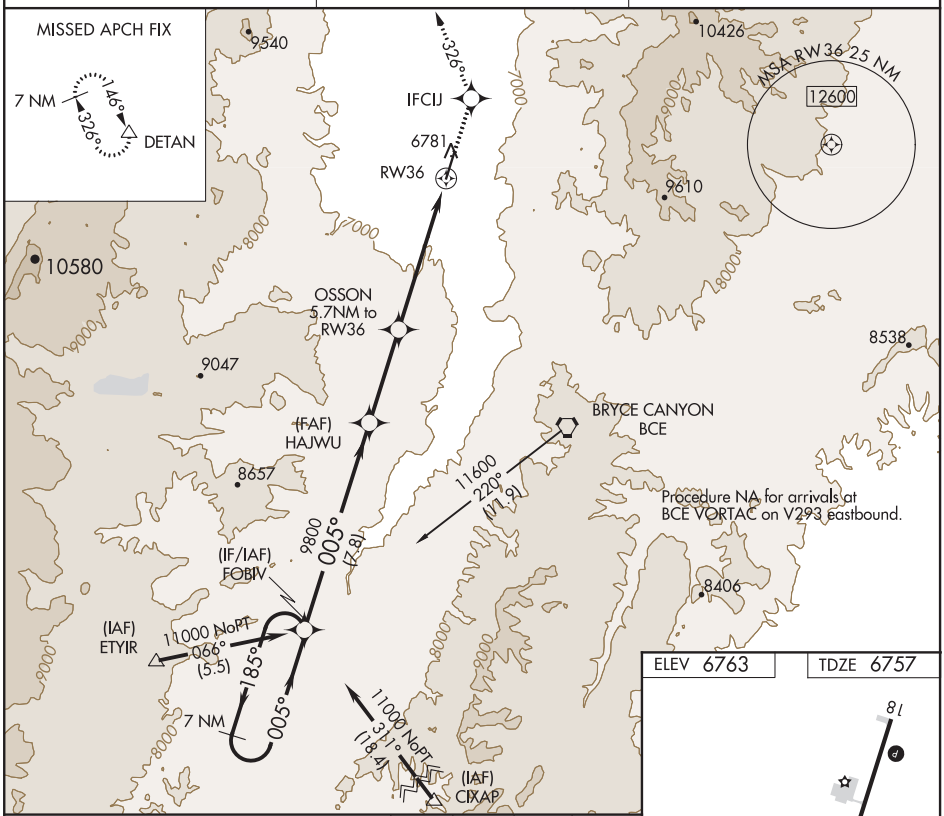
PANGUITCH MUNI (U55)

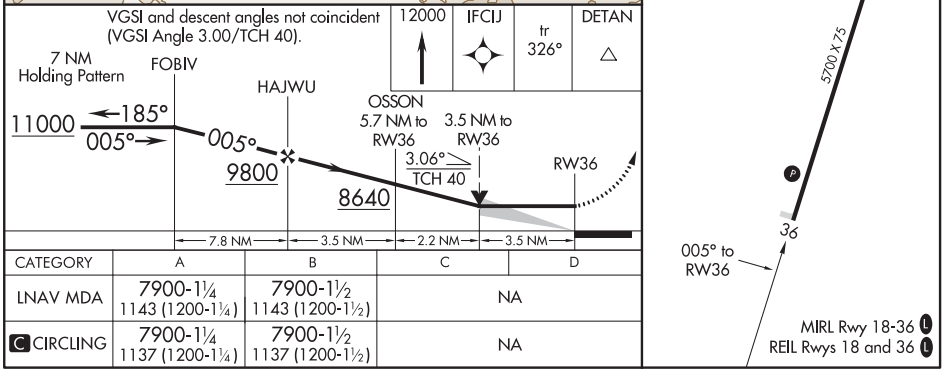
T
A
-28°C

DME/DME RNP-0.3 NA. When local altimeter setting not received use Bryce Canyon altimeter setting and increase all MDA 160 feet. VDP NA with Bryce Canyon altimeter setting.

MISSED APPROACH: Climb to 12000 direct IFCIJ and on track 326° to DETAN and hold.

AWOS-3	SALT LAKE CENTER	CTAF
133.125	133.6 269.25	122.9 L





CATEGORY	A	B	C	D
LNAV MDA	7900-1¼ 1143 (1200-1¼)	7900-1½ 1143 (1200-1½)	NA	
C CIRCLING	7900-1¼ 1137 (1200-1¼)	7900-1½ 1137 (1200-1½)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

PANGUITCH, UTAH

Orig-A 23APR20

37°51′N-112°24′W

PANGUITCH MUNI (U55)

RNAV (GPS) RWY 36

WAAS CH 72936 W01A	APP CRS 012°	Rwy ldg 6250 TDZE 456 Apt Elev 458

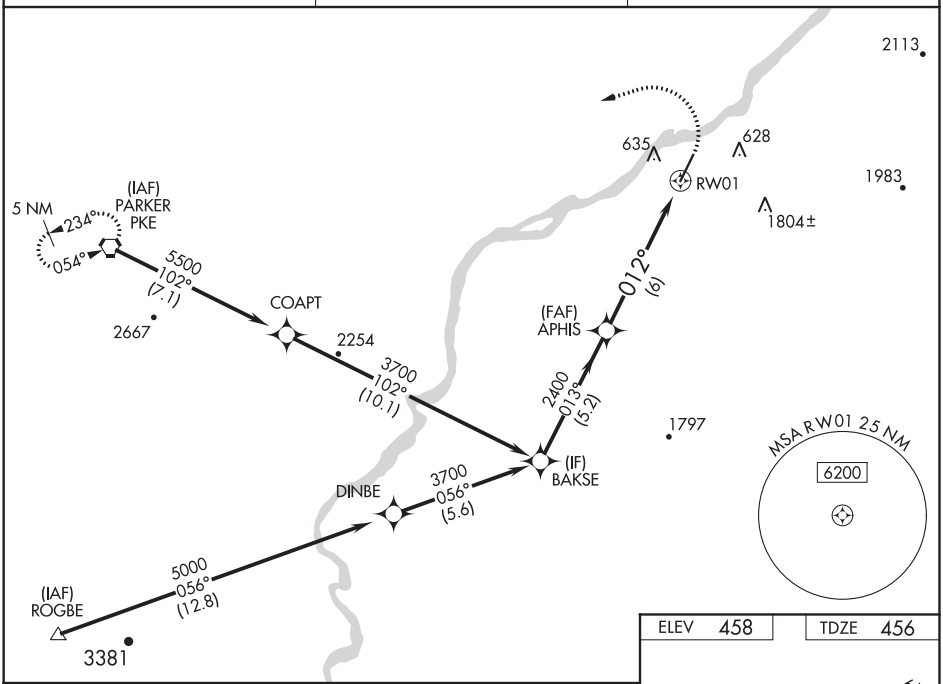
RNAV (GPS) RWY 1
AVI SUQUILLA (P2Ø)

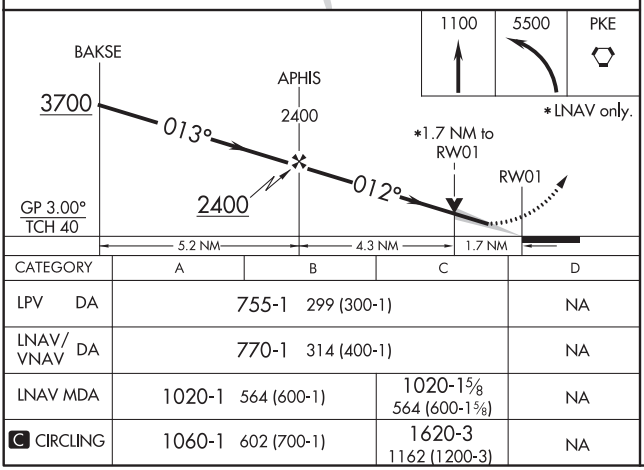
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Blythe altimeter setting. When local altimeter setting not received, use Blythe altimeter setting: increase all DA 98 feet and all MDA 100 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility ⅜ mile, and LNAV Cat C visibility ¼ mile.

NA

MISSED APPROACH: Climb to 1100 then climbing left turn to 5500 direct PKE VORTAC and hold, continue climb-in-hold to 5500.

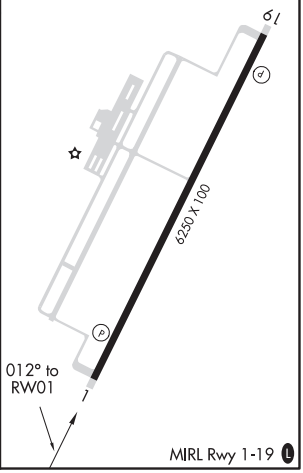
AWOS-3PT	LOS ANGELES CENTER	UNICOM
132.75	128.15 285.6	122.725 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	755-1 299 (300-1)			NA
LNAV/VNAV DA	770-1 314 (400-1)			NA
LNAV MDA	1020-1 564 (600-1)		1020-1⅝ 564 (600-1⅝)	NA
C CIRCLING	1060-1 602 (700-1)		1620-3 1162 (1200-3)	NA

ELEV 458	TDZE 456



PARKER, ARIZONA | AL-6633 (FAA) | 20310

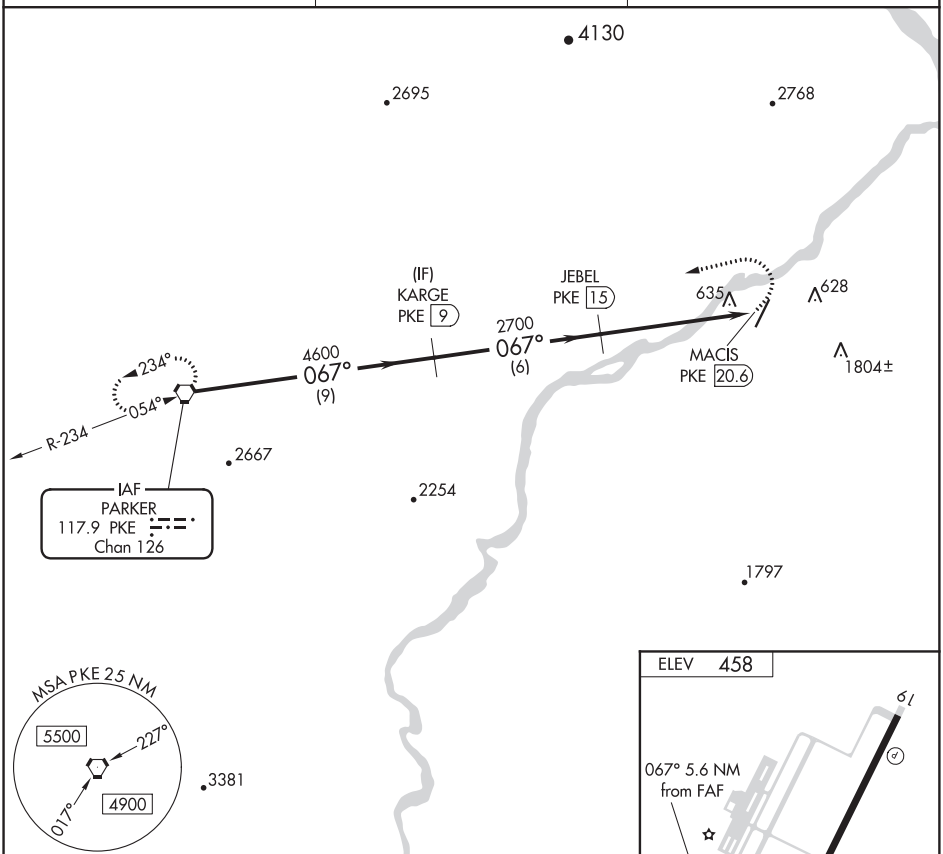
VOR/DME-A
AVI SUQUILLA (P2Ø)

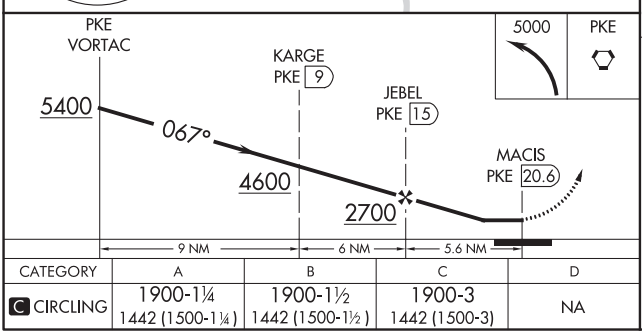
VORTAC PKE 117.9 Chan 126	APP CRS 067°	Rwy ldg N/A TDZE N/A Apt Elev 458

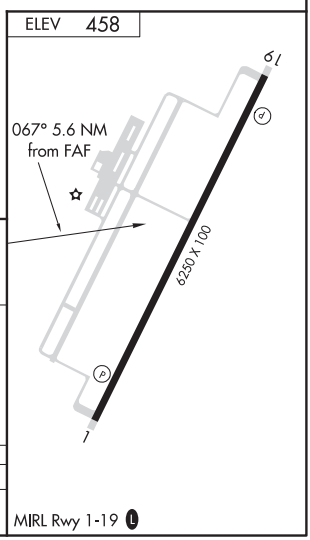
When local altimeter setting not received, use Blythe altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing left turn to 5000 direct PKE VORTAC and hold.

AWOS-3PT	LOS ANGELES CENTER	UNICOM
132.75	128.15 285.6	122.725 (CTAF) L







MIRL Rwy 1-19 L

CATEGORY	A	B	C	D
C CIRCLING	1900-1¼ 1442 (1500-1¼)	1900-1½ 1442 (1500-1½)	1900-3 1442 (1500-3)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy Idg	N/A
352°	TDZE	N/A
	Apt Elev	5157

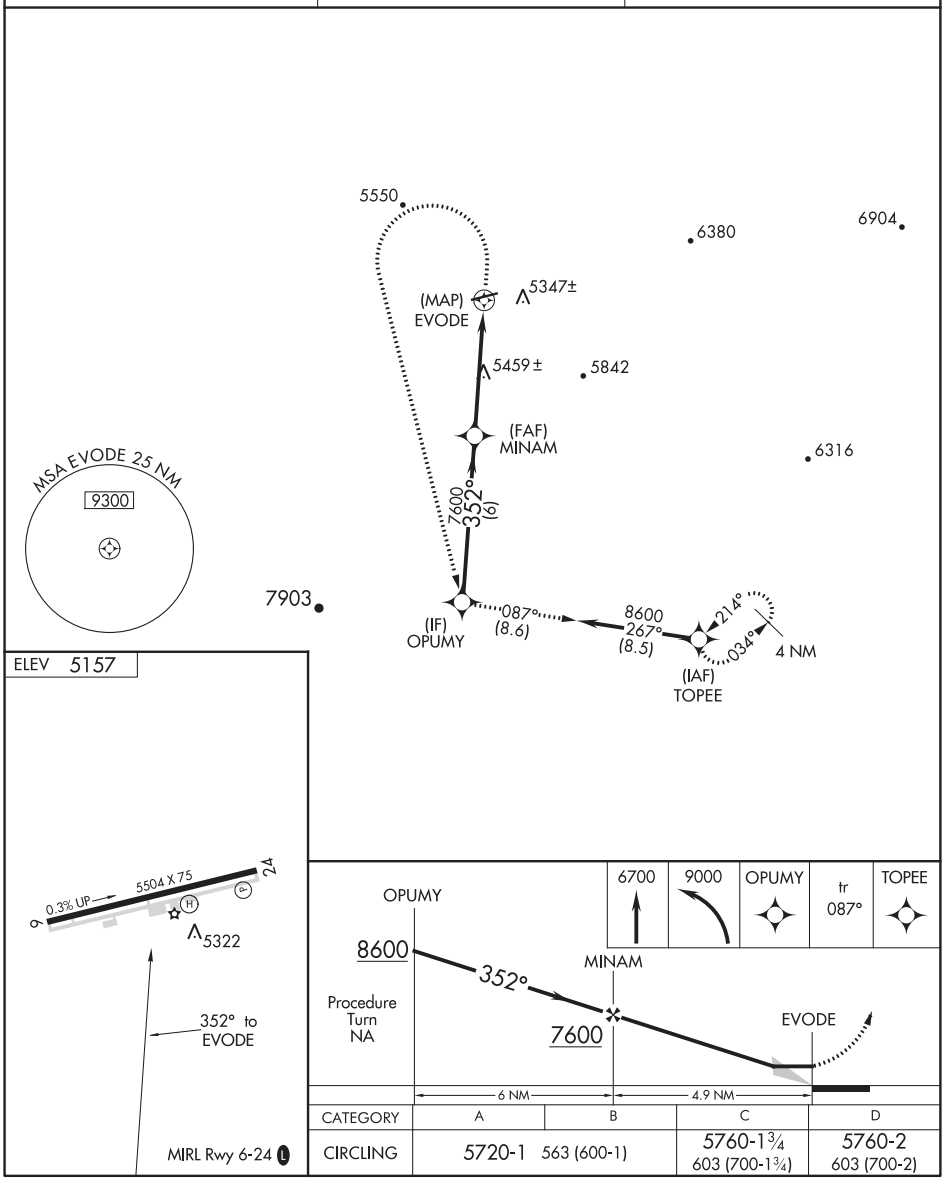
RNAV (GPS)-A

PAYSON (PAN)

T A NA GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6700 then climbing left turn to 9000 direct OPUMY WP and via 087° track to TOPEE WP and hold.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
119.325	127.675 306.2	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	5720-1	563 (600-1)	5760-1¾ 603 (700-1¾)	5760-2 603 (700-2)

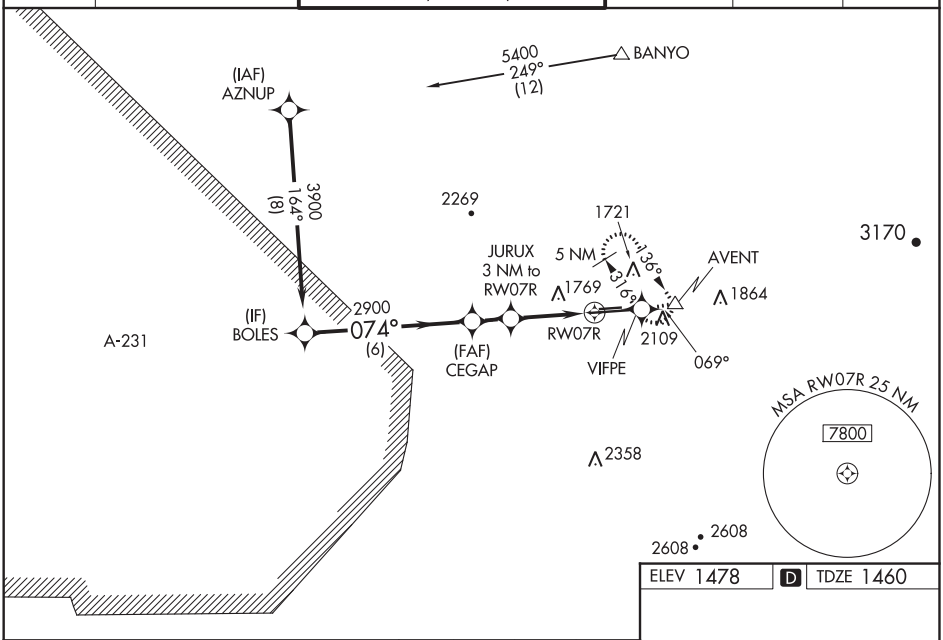
WAAS CH 72917 W07A	APP CRS 074°	Rwy ldg 7299 TDZE 1460 Apt Elev 1478

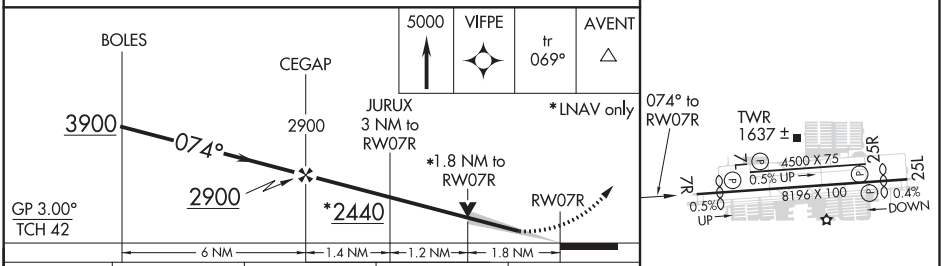
RNAV (GPS) RWY 7R
PHOENIX DEER VALLEY (DVT)

When VGSI inop, Circling Rwy 25R NA at night. Baro-VNAV NA when using Scottsdale altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. VDP NA when using Scottsdale altimeter setting. When local altimeter setting not received, use Scottsdale altimeter setting: Increase LPV DA to 1822 and all visibilities ⅛ SM. Increase LNAV/VNAV DA to 2160, increase all MDA's 40 feet and increase Circling Cat B/C visibility ¼ mile. Circling NA north of Rwy 7R-25L at night.

MISSED APPROACH: Climb to 5000 direct VIFPE and track 069° to AVENT and hold, continue climb-in-hold to 5000. When directed by ATC, continue climb-in-hold to 7000.

ATIS	PHOENIX APP CON	DEER VALLEY TOWER ★	GND CON	CLNC DEL	UNICOM
126.5	120.7 239.0	118.4 (070°-250°) (CTAF) 120.2 (251°-069°)	121.8	123.9	122.95





CATEGORY	A	B	C	D
LPV DA	1795-1⅛ 335 (400-1⅛)			
LNAV/VNAV DA	2133-2½ 673 (700-2½)			
LNAV MDA	2060-1 600 (600-1)		2060-1¾ 600 (600-1¾)	
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	2460-3 982 (1000-3)

MIRL Rwys 7L-25R and 7R-25L
REIL Rwys 7L, 7R, 25L, and 25R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 90117 W25A	APP CRS 254°	Rwy ldg 7281 TDZE 1475 Apt Elev 1478

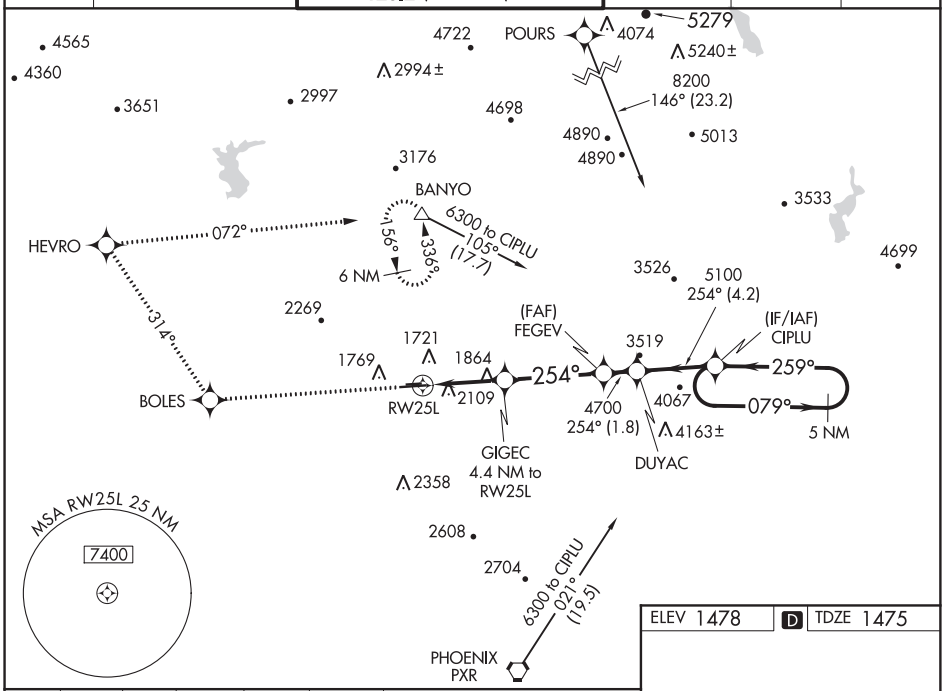
RNAV (GPS) RWY 25L
PHOENIX DEER VALLEY (DVT)

RNP APCH.

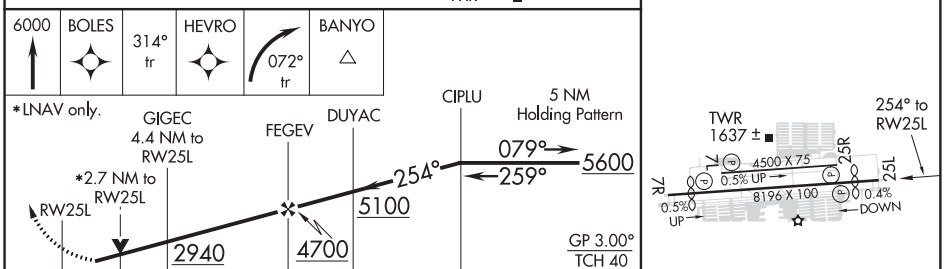
When VGSI inop, Circling to Rwy 25R NA at night. Circling NA north of Rwy 7R-25L at night. When local altimeter setting not received, use Scottsdale altimeter setting; increase LPV all Cats DA to 1877 feet and LPV all Cats visibility ⅛ SM. Increase all MDA 40 feet and Circling Cats B and C visibility ¼ SM. Rwy 25L helicopter visibility reduction below ¾ SM NA. VDP NA when using Scottsdale altimeter setting.

MISSED APPROACH: Climb to 6000 direct BOLES, and via 314° track to HEVRO, and right turn via 072° track to BANYO and hold.

ATIS	PHOENIX APP CON	DEER VALLEY TOWER ★	GND CON	CLNC DEL	UNICOM
126.5	120.7 239.0	118.4 (070°-250°) (CTAF) 120.2 (251°-069°)	121.8	123.9	122.95



ELEV 1478 D TDZE 1475



CATEGORY	A	B	C	D
LPV DA	1850-1¼ 375 (400-1¼)			
LNAV MDA	2360-1¼ 885 (900-1¼)		2360-2¾ 885 (900-2¾)	2360-3 885 (900-3)
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	2420-3 942 (1000-3)

MIRL Rwys 7L-25R and 7R-25L
REIL Rwys 7L, 7R, 25L, and 25R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

PHOENIX, ARIZONA | AL-6646 (FAA) | 20310

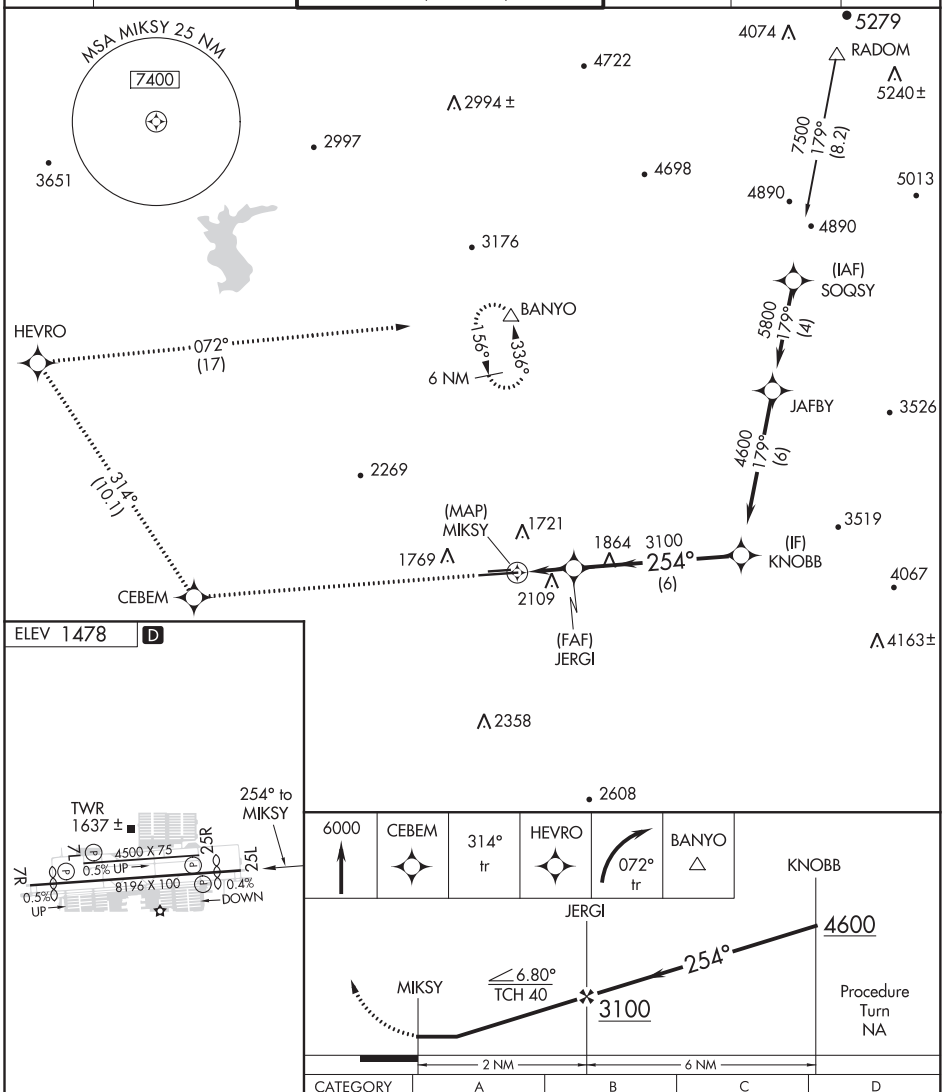
APP CRS	Rwy ldg	N/A
254°	TDZE	N/A
	Apt Elev	1478

RNAV (GPS)-B
PHOENIX DEER VALLEY (DVT)

DME/DME RNP-0.3 NA. When VGSI inoperative, Circling to Rwy 25R NA at night. Circling not authorized at night north of Rwy 7R-25L. If local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDAs 100 feet.

MISSED APPROACH: Climb to 6000 direct CEBEM and via 314° track to HEVRO, and right turn via 072° track to BANYO and hold.

ATIS	PHOENIX APP CON	DEER VALLEY TOWER ★	GND CON	CLNC DEL	UNICOM
126.5	120.7 239.0	118.4 (070°-250°) (CTAF) 120.2 (251°-069°)	121.8	123.9	122.95



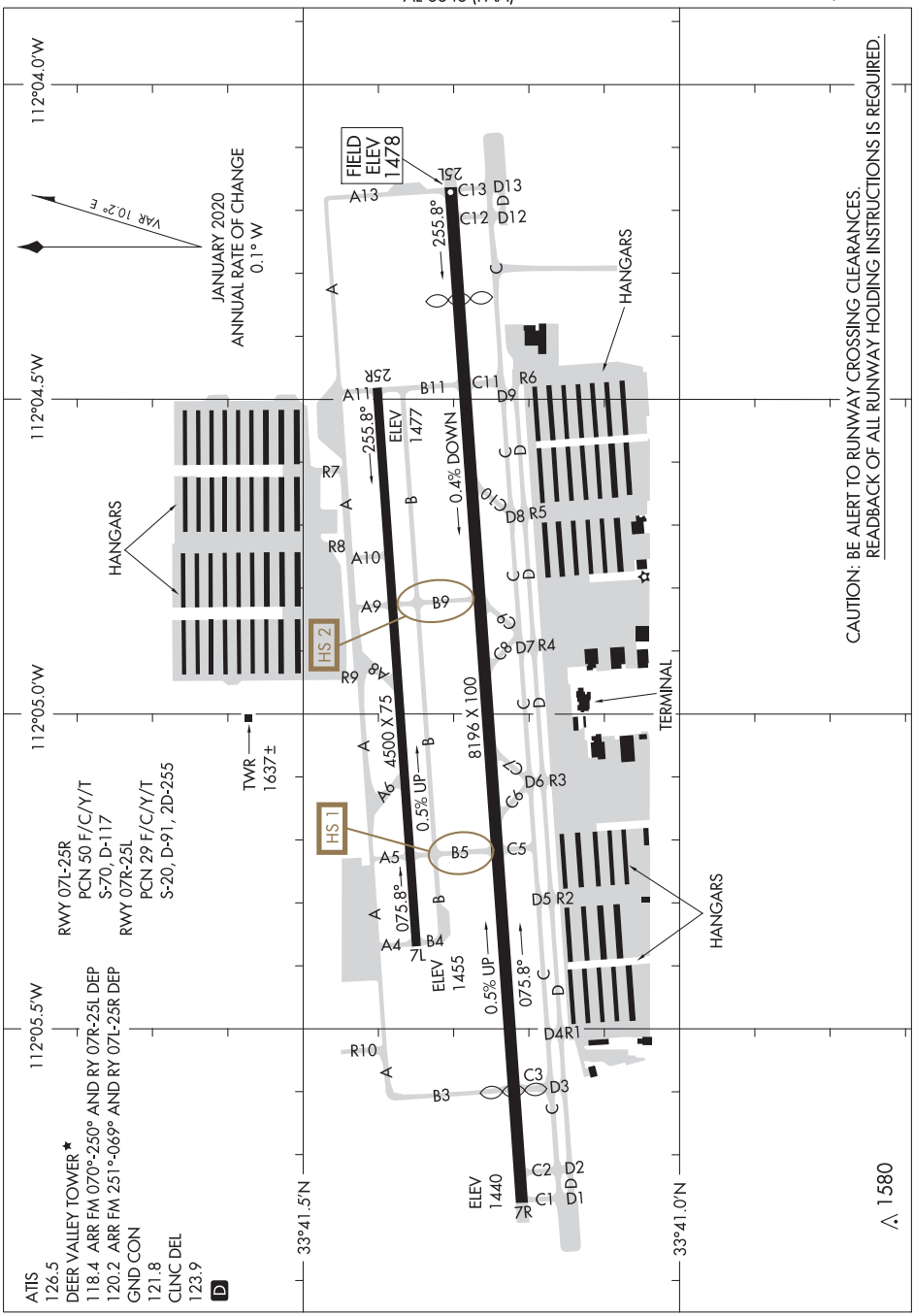
MIRL Rwys 7L-25R and 7R-25L
REIL Rwys 7L, 7R, 25L, and 25R

CATEGORY	A	B	C	D
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-6646 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

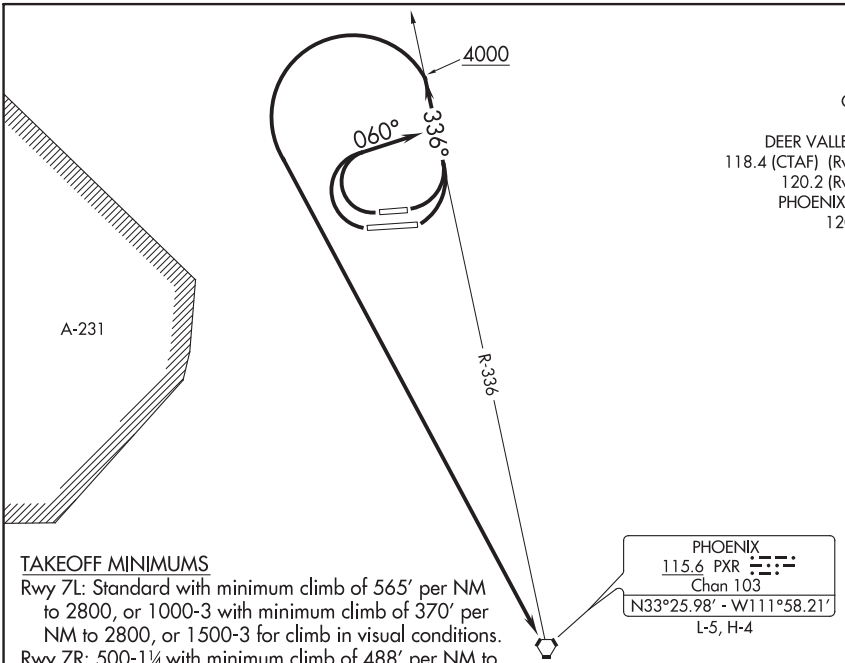
(DVT1.PXR) 16315

DEERVALLEY ONE DEPARTURE (OBSTACLE)

SL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (CTAF) (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0



TAKEOFF MINIMUMS

Rwy 7L: Standard with minimum climb of 565′ per NM to 2800, or 1000-3 with minimum climb of 370′ per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 7R: 500-1¼ with minimum climb of 488′ per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 25R: Standard with minimum climb of 487′ per NM to 2800, or 1500-3 for climb in visual conditions.

Rwy 25L: Standard with minimum climb of 451′ per NM to 2800, or 1500-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 7L: Multiple poles and vegetation beginning 912′ from DER, 125′ left of centerline, up to 30′ AGL/2423′ MSL. Cactus 3824′ from DER, 96′ right of centerline, 16′ AGL/1596′ MSL. Windsock 340′ from DER, 354′ right of centerline, 9′ AGL/1488′ MSL.

Rwy 7R: Multiple antennas and vegetation beginning 546′ from DER, 267′ left of centerline, up to 52′ AGL/1952′ MSL. Multiple antennas and vegetation beginning 978′ from DER, 431′ right of centerline, up to 40′ AGL/1609′ MSL.

Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847′ right of centerline, up to 96′ AGL/1806′ MSL.

Rwy 25L: Pole 1127′ from DER, 498′ right of centerline, 36′ AGL/1475′ MSL. Pole 1184′ from DER, 495′ left of centerline, 32′ AGL/1471′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R: Climbing left turn via PXR VORTAC R-336 northwestbound to 4000. Thence. . . .Or, climb in visual conditions to cross Phoenix Deer Valley Airport at or above 2800, then via PXR VORTAC R-336 northwestbound to 4000. Thence. . . .

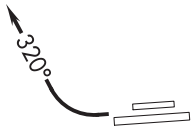
TAKEOFF RUNWAYS 25L/R: Climbing right turn via heading 060° and PXR VORTAC R-336 northwestbound to 4000. Thence. . . .Or, climb in visual conditions to cross Phoenix Deer Valley Airport at or above 2800, then via PXR VORTAC R-336 northwestbound to 4000. Thence. . . .

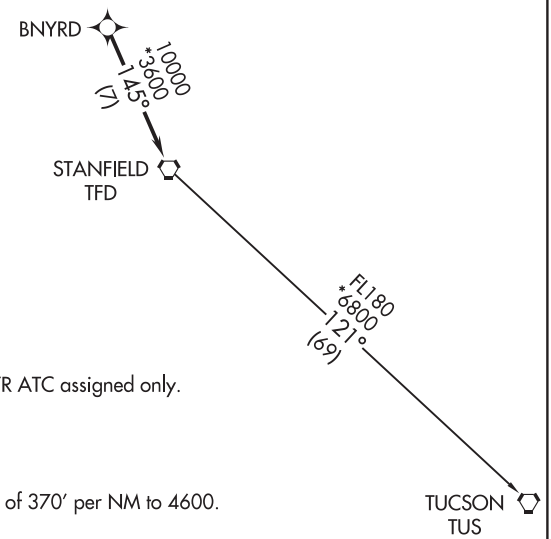
. . . .climbing left turn direct PXR VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0





NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 7L/R: NA - Obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

FTHLS SIX DEPARTURE (RNAV)

(FTHLS6.FTHLS) 24MAY18

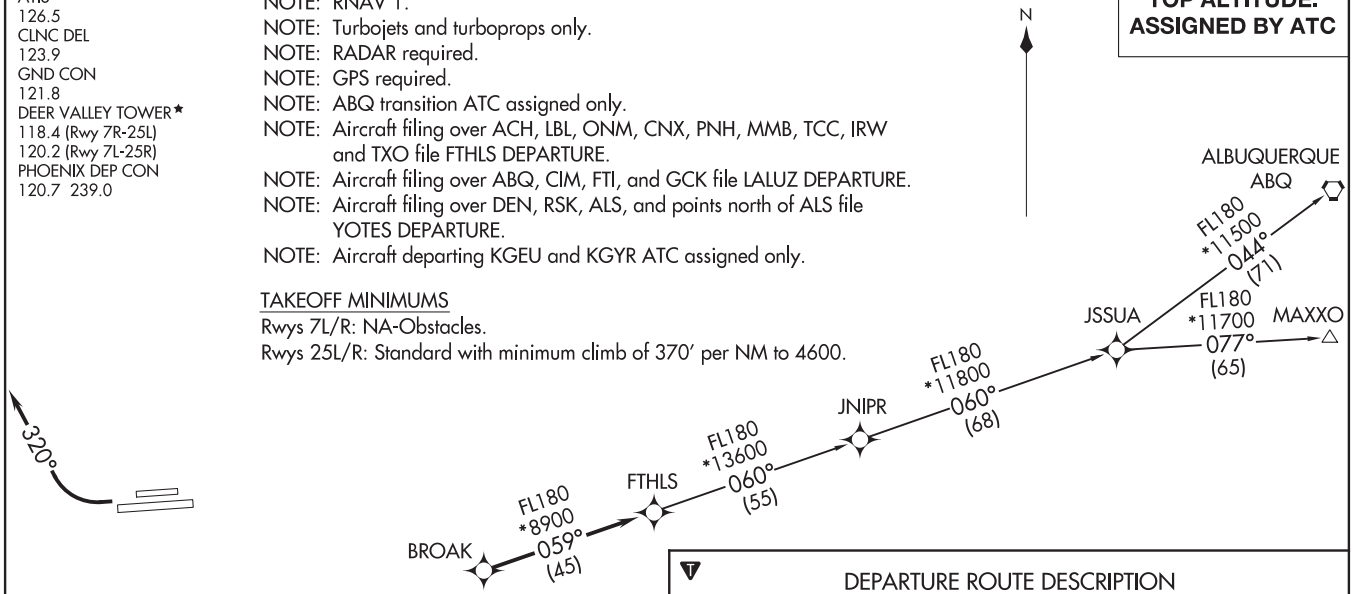
PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER*
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 7L/R: NA-Obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)
JNIPR TRANSITION (FTHLS6.JNIPR)
MAXXO TRANSITION (FTHLS6.MAXXO)

(FTHLS6.FTHLS) 18144
FTHLS SIX DEPARTURE (RNAV)
PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

AL-6646 (FAA)

IZZZO SEVEN DEPARTURE (RNAV)

(IZZZO7.IZZZO) 24MAY18

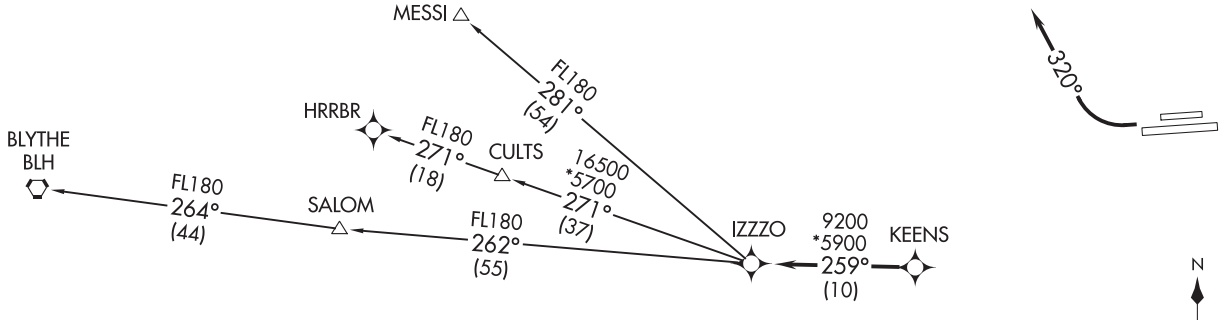
PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER ★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 7L/R: NA - Obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition).
Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO7.BLH)

HRRBR TRANSITION (IZZZO7.HRRBR)

MESSI TRANSITION (IZZZO7.MESSI)

NOTE: Chart not to scale.

IZZZO SEVEN DEPARTURE (RNAV)
(IZZZO7.IZZZO) 18144
PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

AL-6646 (FAA)

JUDTH SEVEN DEPARTURE (RNAV)

(JUDTH7.JUDTH) 24MAY18

PHOENIX DEER VALLEY (DVT)

PHOENIX, ARIZONA

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 7L/R: NA - Obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

JUDTH SEVEN DEPARTURE (RNAV)
(JUDTH7.JUDTH) 18144
PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

AL-6646 (FAA)

ATIS 126.5
CLNC DEL 123.9
GND CON 121.8
DEER VALLEY TOWER ★ 118.4 (Rwy 7R-25L) 120.2 (Rwy 7L-25R)
PHOENIX DEP CON 120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

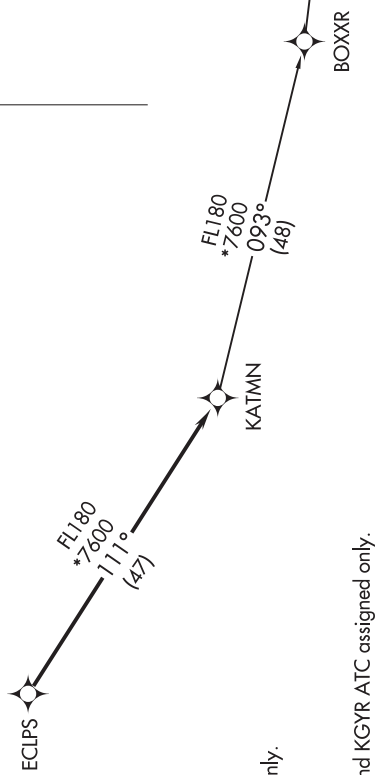
320°

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)



NOTE: Chart not to scale.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 7L/R: NA-obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

AL-6646 (FAA)

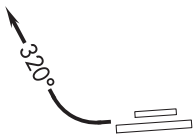
ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0

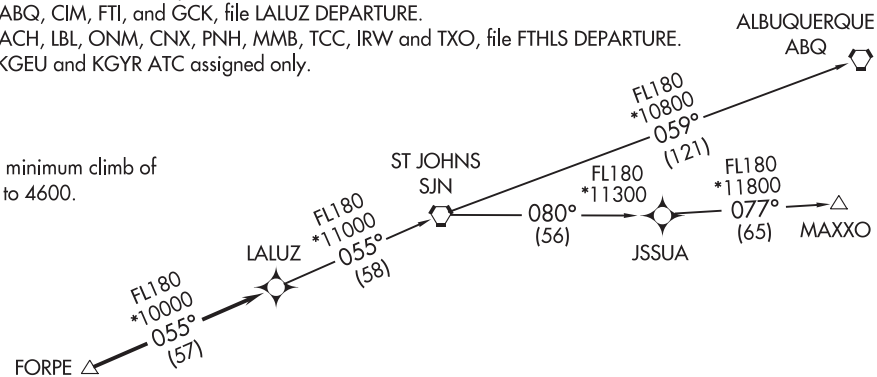
TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R: NA-obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)

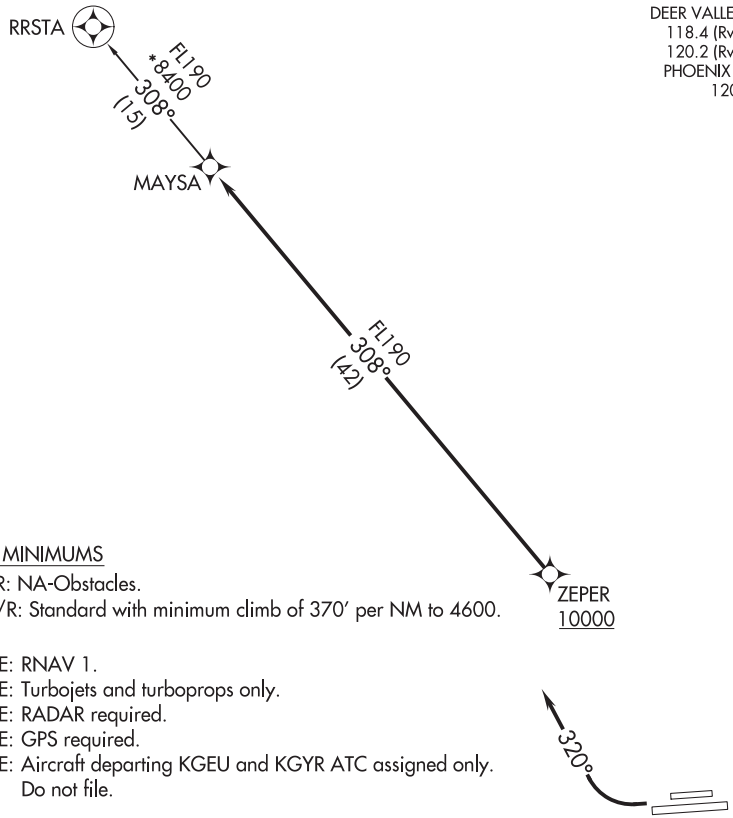
MAXXO TRANSITION (LALUZ6.MAXXO)

ST JOHNS TRANSITION (LALUZ6.SJN)

NOTE: Chart not to scale.

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0



TAKEOFF MINIMUMS
Rwys 7L/R: NA-Obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only. Do not file.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

(SNOBL6.SNOBL) 18144

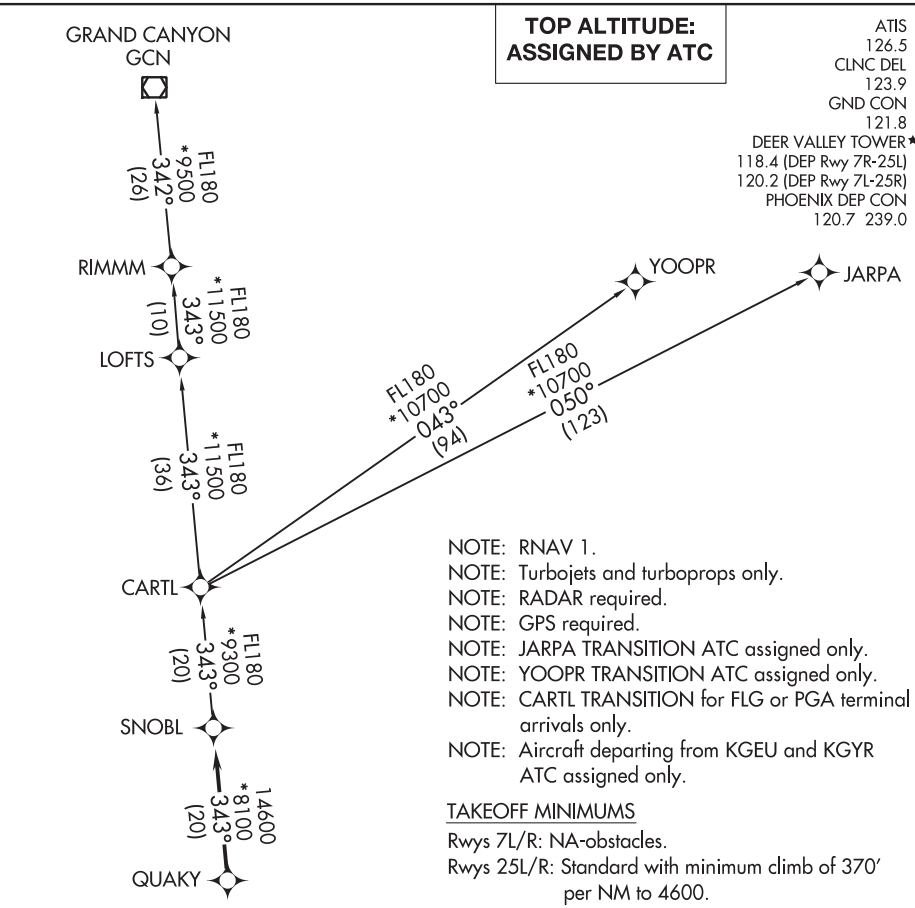
SNOBL SIX DEPARTURE (RNAV)

AL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

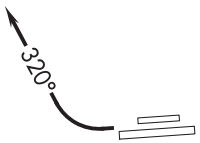
ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (DEP Rwy 7R-25L)
120.2 (DEP Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing from KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R: NA-obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL6.CARTL)
GRAND CANYON TRANSITION (SNOBL6.GCN)
JARPA TRANSITION (SNOBL6.JARPA)
RIMMM TRANSITION (SNOBL6.RIMMM)
YOOPR TRANSITION (SNOBL6.YOOPR)

SW-4, 05 NOV 2020 to 31 DEC 2020

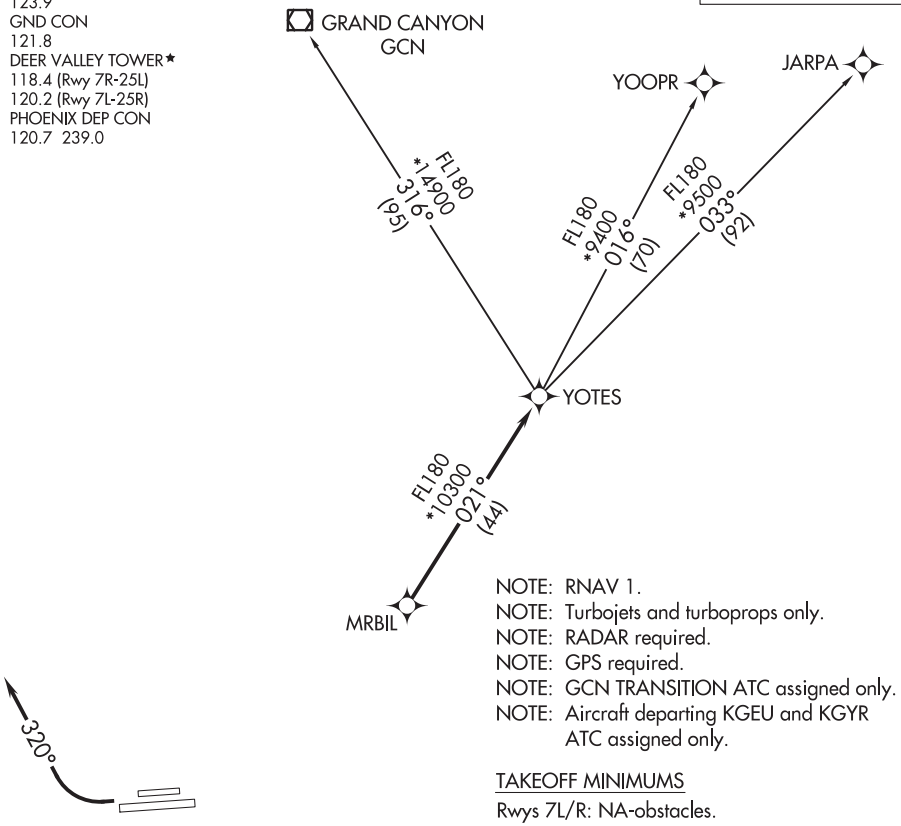
SW-4, 05 NOV 2020 to 31 DEC 2020

YOTES SIX DEPARTURE (RNAV)

AL-6646 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
126.5
CLNC DEL
123.9
GND CON
121.8
DEER VALLEY TOWER★
118.4 (Rwy 7R-25L)
120.2 (Rwy 7L-25R)
PHOENIX DEP CON
120.7 239.0



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R: NA-obstacles.
Rwys 25L/R: Standard with minimum climb of 370′ per NM to 4600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L/R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

SW-4, 05 NOV 2020 to 31 DEC 2020

PHOENIX, ARIZONA

AL-322 (FAA)

20114

ILS or LOC RWY 7R
PHOENIX SKY HARBOR INTL (PHX)

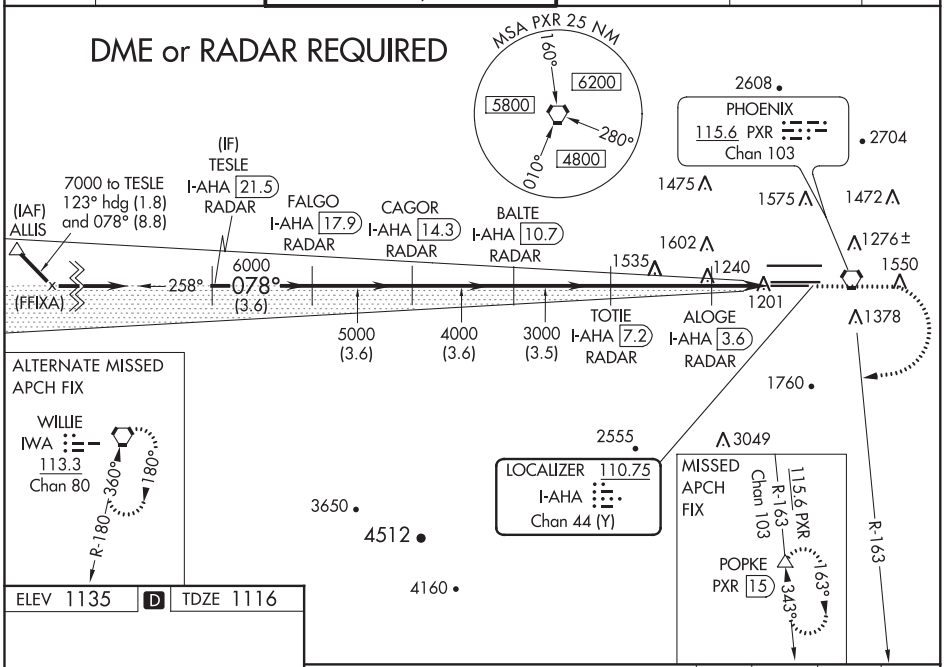
LOC/DME I-AHA	APP CRS	Rwy ldg	7800
110.75	078°	TDZE	1116
Chan 44 (Y)		Apt Elev	1135

T A Inoperative table does not apply to S-ILS 7R. Simultaneous approach authorized with ILS or LOC Rwy 8. DME required. Rwy 7R helicopter visibility reduction below ¾ SM NA. LOC procedure NA during simultaneous operations. For inoperative ALS, increase S-LOC 7R visibility Cats A/B to 1 SM and Cats C/D to 1⅛ SM.

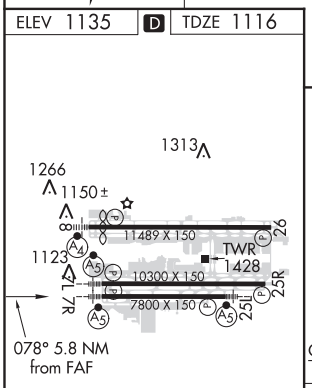
MALSR A5

MISSED APPROACH: Climb to 3300 then climbing right turn to 5000 on heading 250° and PXR VORTAC R-163 to POPKE/PXR 15 DME and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	

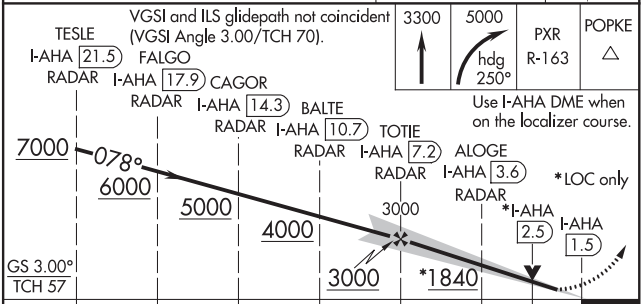


ELEV 1135 D TDZE 1116



HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

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
S-ILS 7R	1369-¾ 253 (300-¾)			
S-LOC 7R	1520-¾ 404 (400-¾)			
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

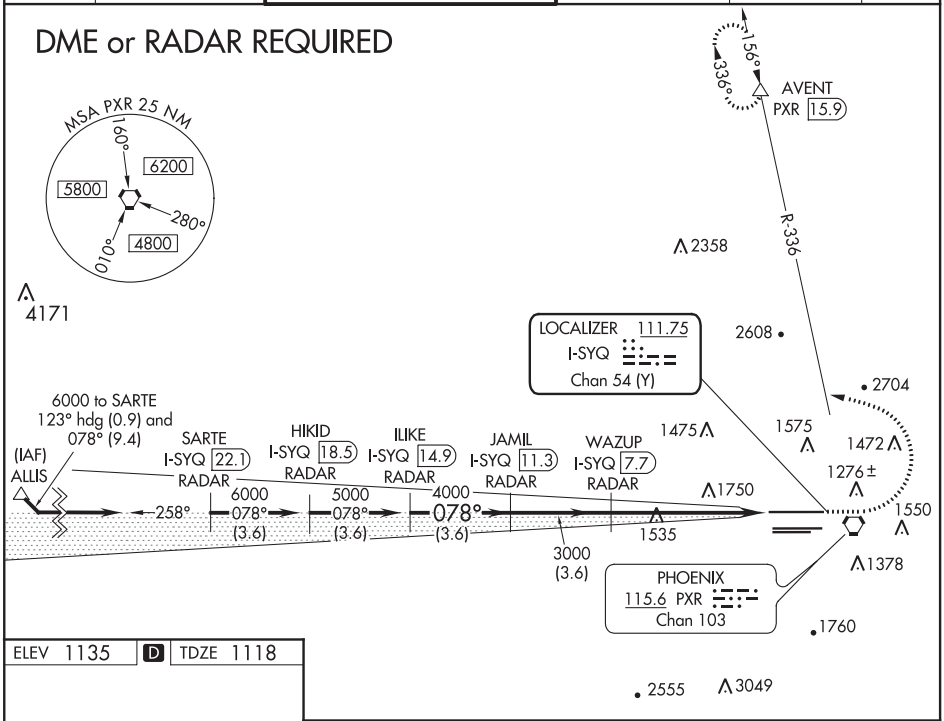
SW-4, 05 NOV 2020 to 31 DEC 2020

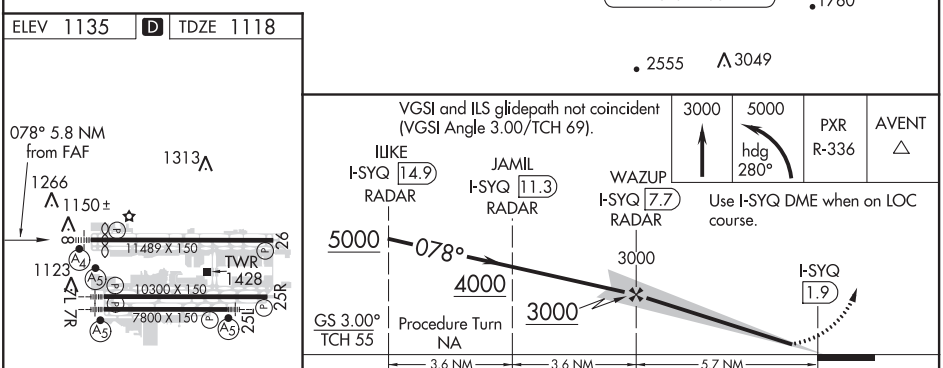
LOC/DME I-SYQ 111.75 Chan 54 (Y)	APP CRS 078°	Rwy ldg 10591 TDZE 1118 Apt Elev 1135

ILS or LOC RWY 8
PHOENIX SKY HARBOR INTL (PHX)

T A Simultaneous approach authorized with Rwy 7R and RNAV (RNP) Z Rwy 7L, RNAV (GPS) Y Rwy 7L. DME required.	MALSF A4	MISSED APPROACH: Climb to 3000, then climbing left turn to 5000 via heading 280° and PXR R-336 to AVENT/PXR 15.9 DME and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	





HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

	A	B	C	D
S-ILS 8	1368-1 250 (300-1)			
S-LOC 8	1860-1 742 (800-1)	1860-1¼ 742 (800-1¼)	1860-2¼ 742 (800-2¼)	1860-2½ 742 (800-2½)
C CIRCLING	1860-1 725 (800-1)	1860-1¼ 725 (800-1¼)	2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

LOC/DME I-RJG	APP CRS	Rwy ldg	7800
110.75	258°	TDZE	1126
Chan 44 (Y)		Apt Elev	1135

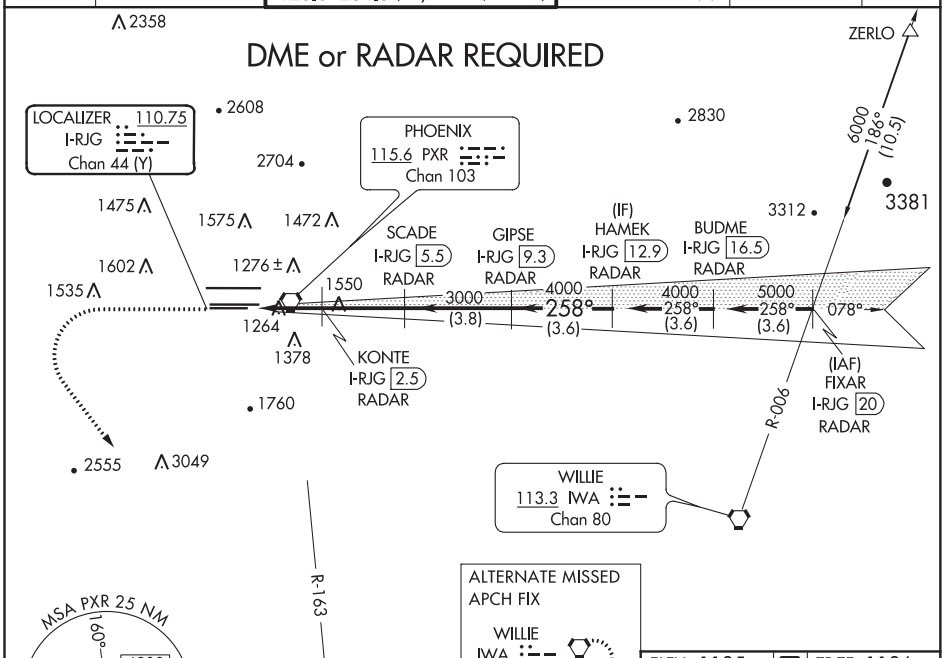
ILS or LOC RWY 25L
PHOENIX SKY HARBOR INTL (PHX)

T Autopilot coupled approach NA below 1925.
A Simultaneous approach authorized with Rwy 26.

MALSR (A5)

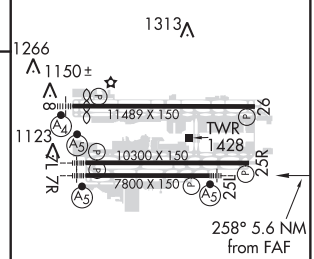
MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 on heading 130° and PXR R-163 to POPKE/15 DME and hold.

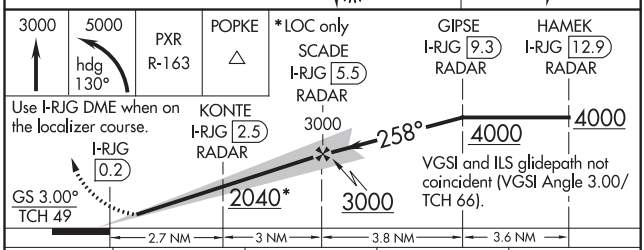
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 1135 | D | TDZE 1126





CATEGORY	A	B	C	D
S-ILS 25L	1326-½ 200 (200-½)			
S-LOC 25L	1520-½ 394 (400-½)			1520-¾ 394 (400-¾)
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

ILS or LOC RWY 26

PHOENIX SKY HARBOR INTL (PHX)

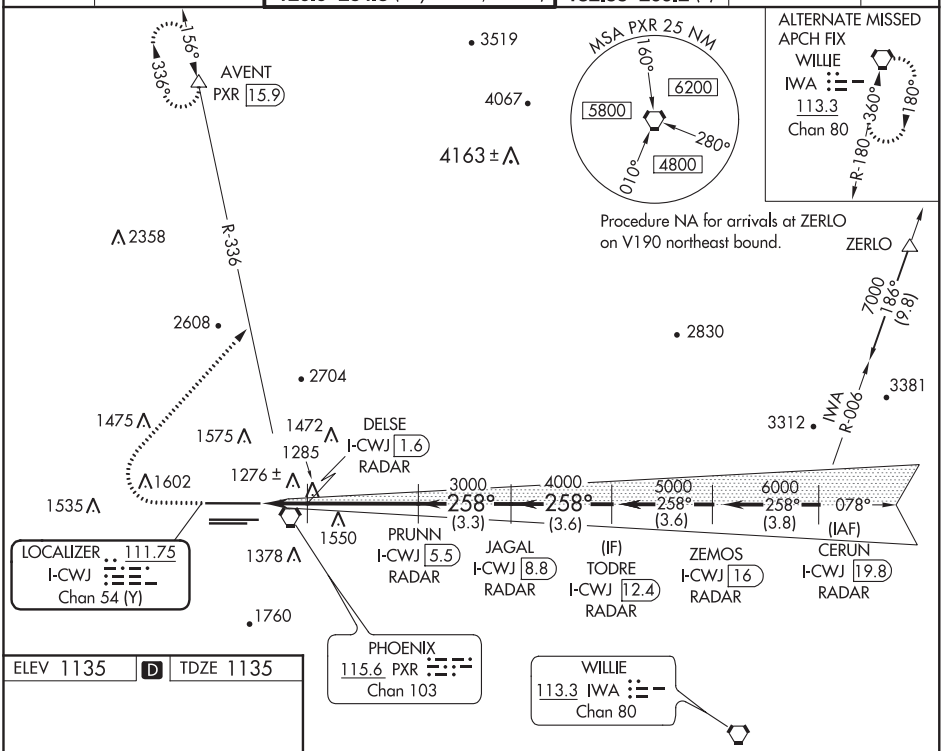
LOC/DME I-CWJ	APP CRS	Rwy ldg 11489
111.75	258°	TDZE 1135
Chan 54 (Y)		Apt Elev 1135

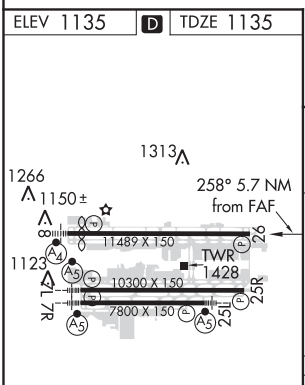
DME or RADAR required.

T A Simultaneous approach authorized.

MISSED APPROACH: Climb to 2500 then climbing right turn to 5000 on heading 030° and PXR VORTAC R-336 to AVENT/PXR 15.9 DME and hold.

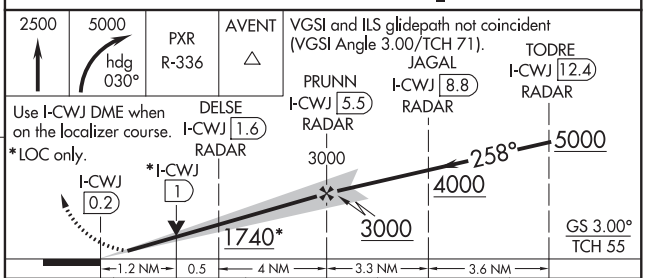
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	





HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



CATEGORY	A	B	C	D
S-ILS 26	1385-¾ 250 (300-¾)			
S-LOC 26	1580-1 445 (500-1)		1580-1⅜ 445 (500-⅜)	
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

PHOENIX, ARIZONA
Amdt 1 15AUG19
33°26′N-112°01′W
289
PHOENIX SKY HARBOR INTL (PHX)
ILS or LOC RWY 26

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

PHOENIX, ARIZONA | AL-322 (FAA) | 20114

ILS or LOC/DME RWY 7L
PHOENIX SKY HARBOR INTL (PHX)

LOC/DME I-PHX	APP CRS	Rwy ldg	10300
111.5	078°	TDZE	1116
Chan 52		Apt Elev	1135

For inoperative ALS, increase S-LOC 7L Cats C/D visibility to RVR 5500.

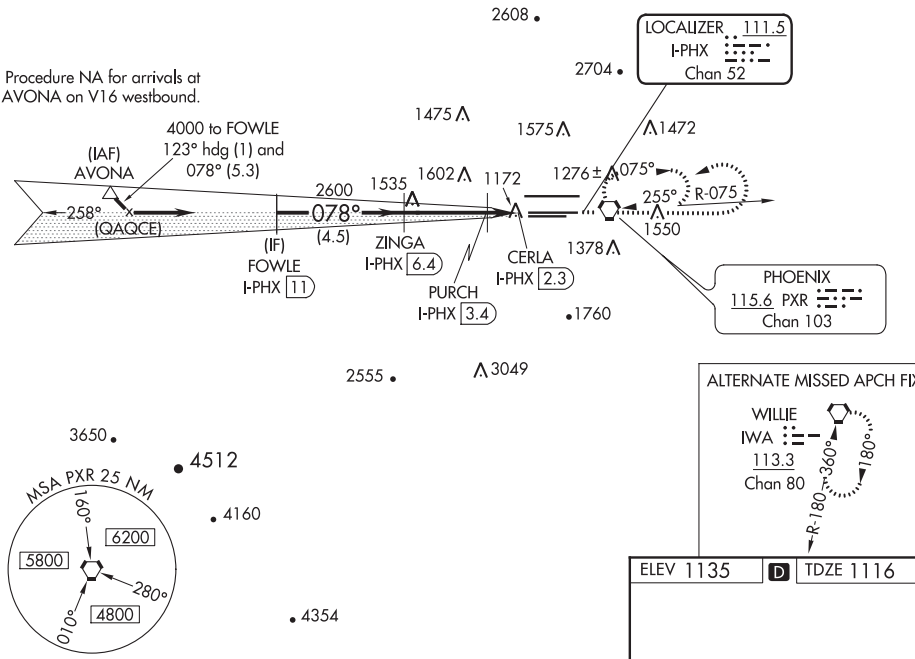
MALSR

MISSED APPROACH: Climb to 5000 then left turn direct PXR VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	

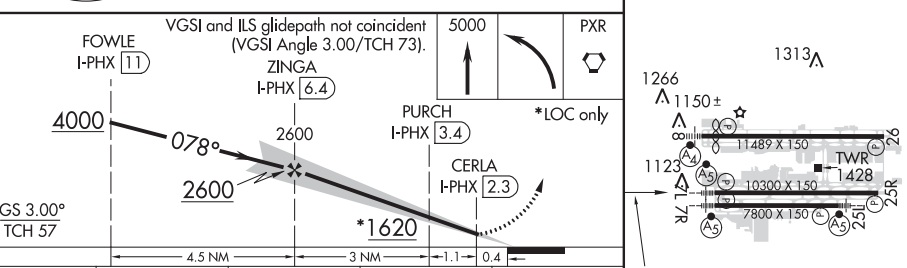
DME REQUIRED

Procedure NA for arrivals at AVONA on V16 westbound.



ELEV 1135 | D | TDZE 1116

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).



CATEGORY	A	B	C	D
S-ILS 7L	1326/24 210 (200-½)			
S-LOC 7L	1460/24 344 (400-½)		1460/30 344 (400-⅝)	
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10300
078°	TDZE	1116
	Apt Elev	1135

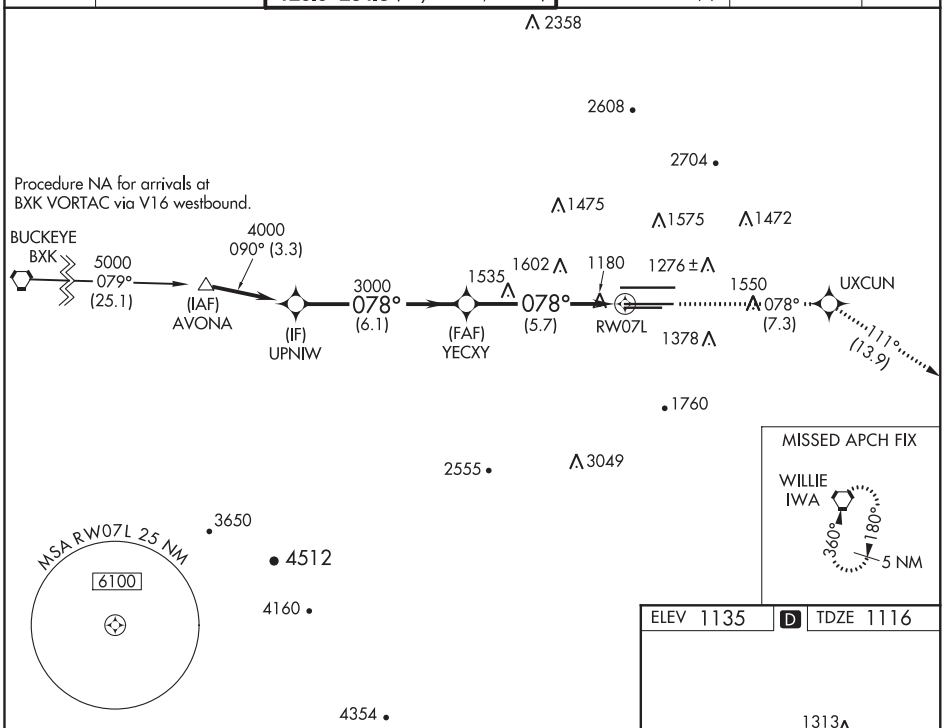
RNAV (RNP) Z RWY 7L
PHOENIX SKY HARBOR INTL (PHX)

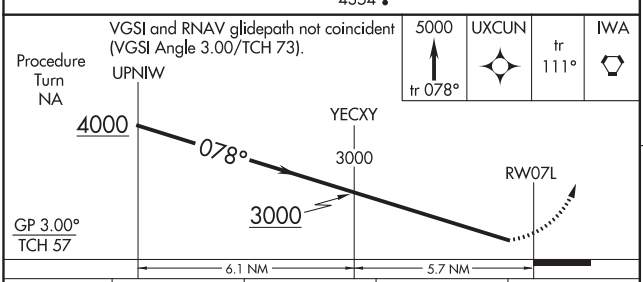
GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½ mile. Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MALSR

MISSED APPROACH: Climb to 5000 via track 078° to UXCUN and via track 111° to IWA VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	

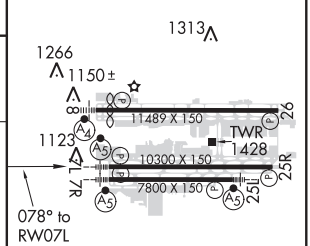




CATEGORY	A	B	C	D
RNP 0.30 DA	1523/50 407 (400-1)			

AUTHORIZATION REQUIRED

ELEV 1135 D TDZE 1116



HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

PHOENIX, ARIZONA
Orig-C 08MAR12
33°26′N-112°01′W
PHOENIX SKY HARBOR INTL (PHX)
RNAV (RNP) Z RWY 7L
291

APP CRS	Rwy ldg	7800
078°	TDZE	1116
	Apt Elev	1135

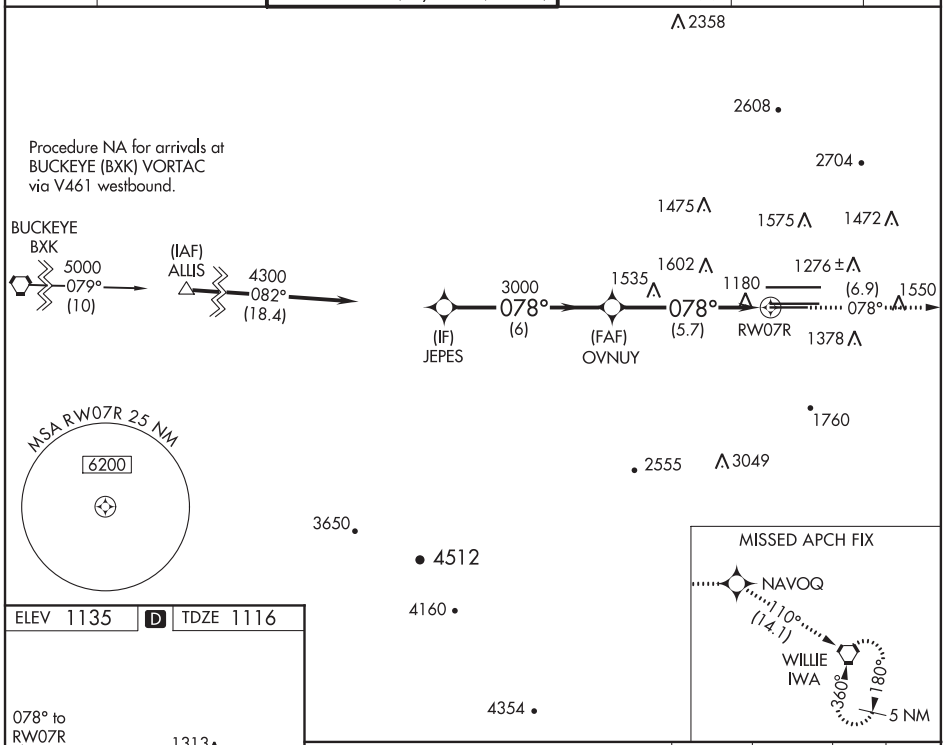
RNAV (RNP) Z RWY 7R
PHOENIX SKY HARBOR INTL (PHX)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½ . Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

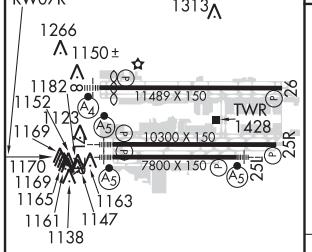
MALSR

MISSED APPROACH: Climb to 5000 via track 078° to NAVOQ and via track 110° to IWA VORTAC and hold.

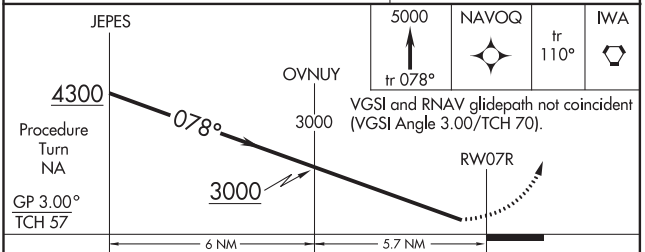
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1116



HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26



CATEGORY	A	B	C	D
RNP 0.30 DA	1523-1 407 (400-1)			

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10591
078°	TDZE	1118
	Apt Elev	1135

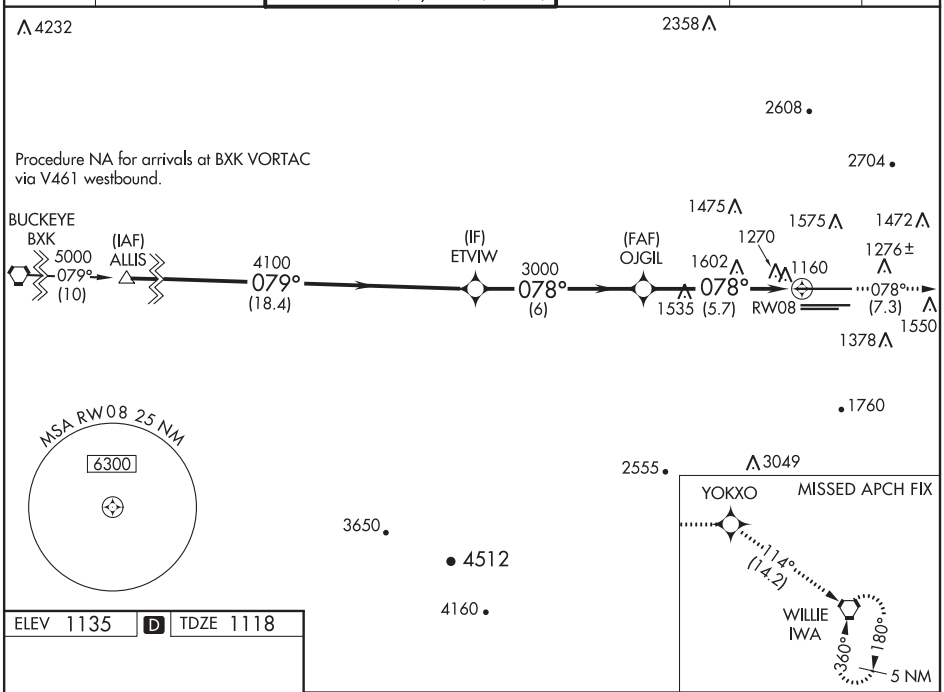
RNAV (RNP) Z RWY 8
PHOENIX SKY HARBOR INTL (PHX)

T GPS required. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).
For inoperative MALSF, increase RNP 0.13 all Cats visibility to 1¼, and RNP 0.30 all Cats visibility to 1¾.

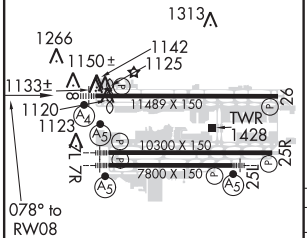
MALSF

MISSED APPROACH: Climb to 5000 via track 078° to YOKXO and via track 114° to IWA VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	

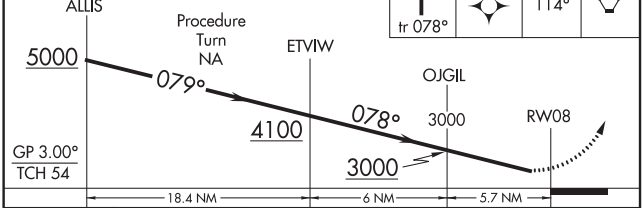


ELEV 1135 D TDZE 1118



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 69).

5000	YOKXO	tr	IWA
tr 078°		114°	



CATEGORY	A	B	C	D
RNP 0.13 DA	1478-1 360 (400-1)			
RNP 0.30 DA	1603-1½ 485 (500-1½)			

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	7800
258°	TDZE	1126
	Apt Elev	1135

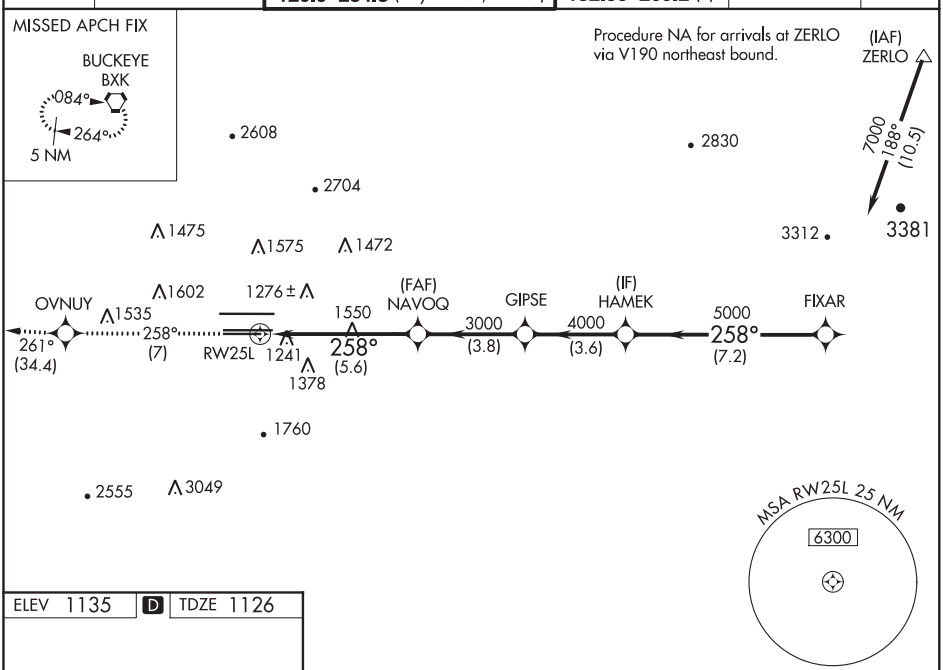
RNAV (RNP) Z RWY 25L
PHOENIX SKY HARBOR INTL (PHX)

For inoperative MALSR, increase RNP 0.11 all Cats visibility to 1¾, RNP 0.30 all Cats visiibility to 2. Visibility reduction by helicopters NA. GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). Simultaneous approach authorized with ILS or LOC Rwy 26. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

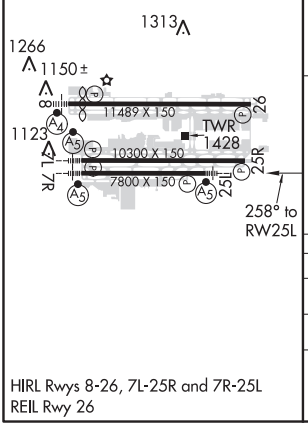
MALSR

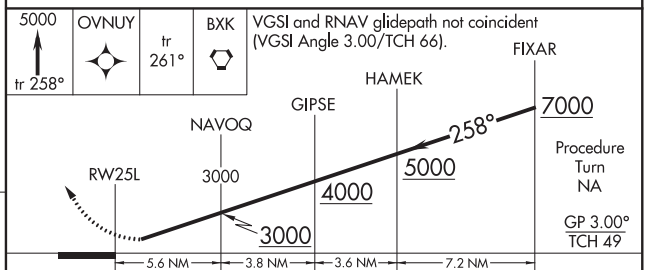
MISSED APPROACH: Climb to 5000 via track 258° to OVNUY and via track 261° to BXK VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1126





CATEGORY	A	B	C	D
RNP 0.11 DA	1617-1¼ 491 (500-1¼)			
RNP 0.30 DA	1664-1½ 538 (600-1½)			

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

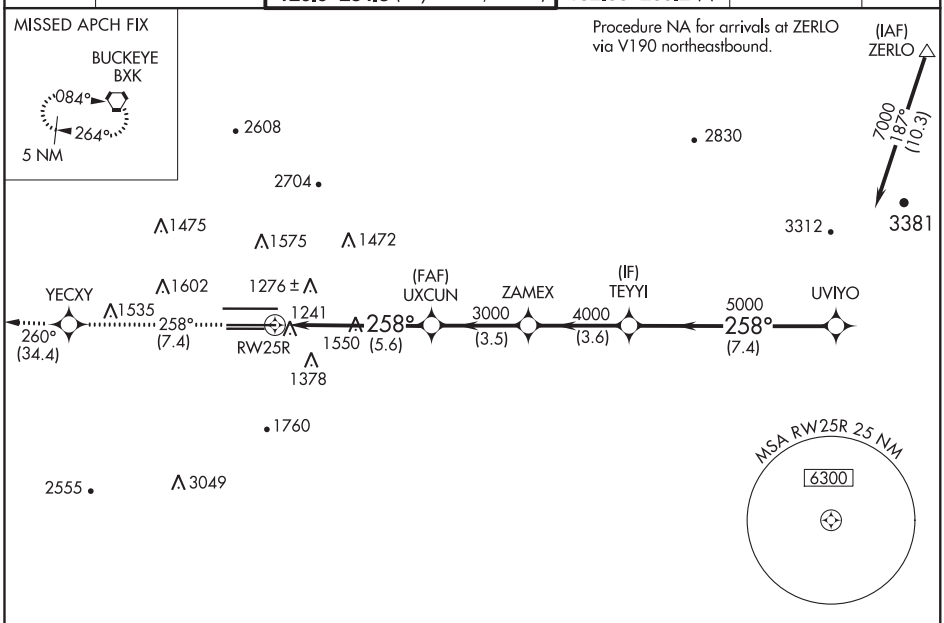
APP CRS	Rwy ldg	10300
258°	TDZE	1134
	Apt Elev	1135

RNAV (RNP) Z RWY 25R
PHOENIX SKY HARBOR INTL (PHX)

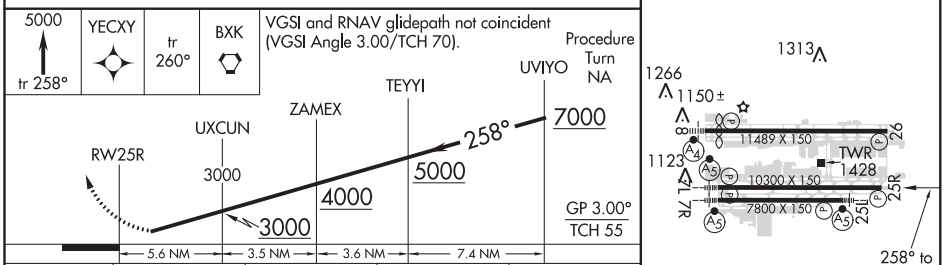
T Visibility reduction by helicopters NA. GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). Simultaneous approach authorized with ILS or LOC Rwy 26. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MISSED APPROACH: Climb to 5000 via track 258° to YECXY and via track 260° to BXK VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135	D	TDZE 1134



CATEGORY	A	B	C	D
RNP 0.20 DA	1597-1½ 463 (500-1½)			
RNP 0.30 DA	1622-1¾ 488 (500-1¾)			

AUTHORIZATION REQUIRED

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

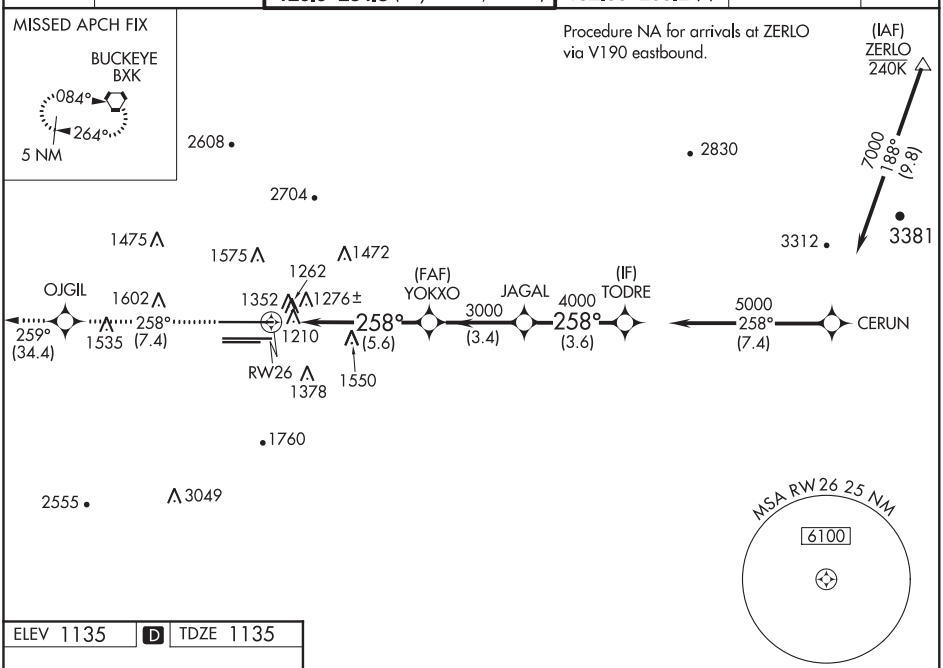
APP CRS		
258°	Rwy ldg	11489
	TDZE	1135
	Apt Elev	1135

RNAV (RNP) Z RWY 26
PHOENIX SKY HARBOR INTL (PHX)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). Simultaneous approach authorized with ILS or LOC Rwy 25L. Used of FD or AP providing RNAV track guidance required during simultateous operations.

MISSED APPROACH: Climb to 5000 via track 258° to OJGIL and via track 259° to BXK VORTAC and hold.

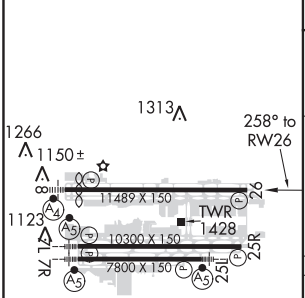
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



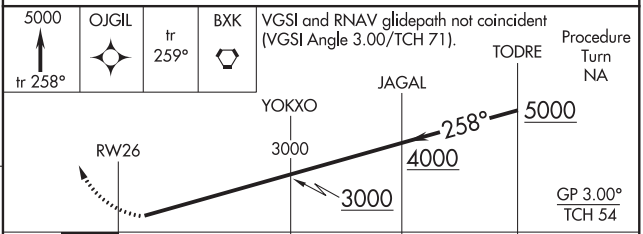
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 1135 | D | TDZE 1135



HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26



CATEGORY	A	B	C	D
RNP 0.11 DA	1490-1¼ 355 (400-1¼)			
RNP 0.20 DA	1590-1½ 455 (500-1½)			
RNP 0.30 DA	1654-1¾ 519 (600-1¾)			

AUTHORIZATION REQUIRED

WAAS CH 65811 W07A	APP CRS 078°	Rwy ldg 10300 TDZE 1116 Apt Elev 1135

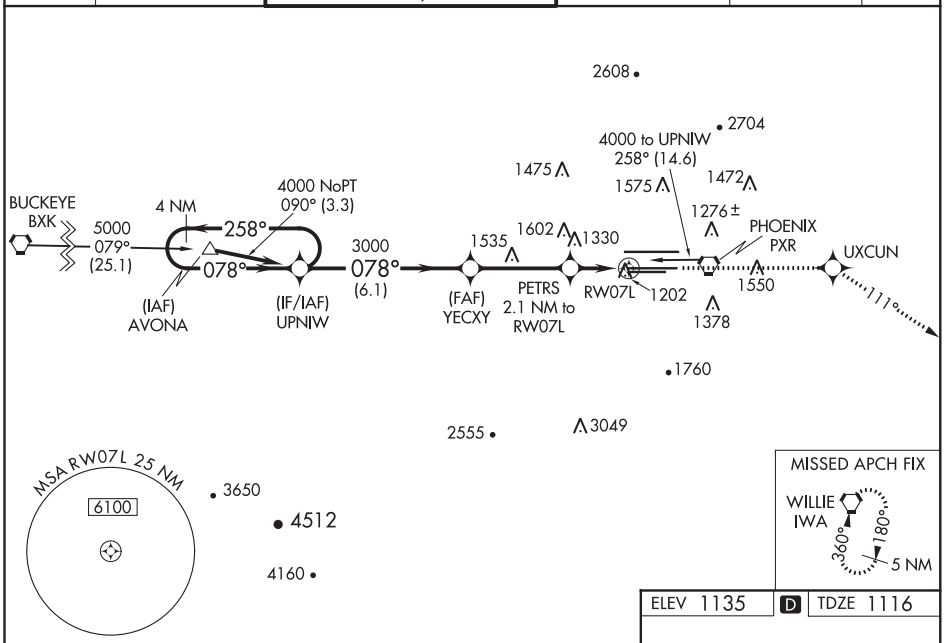
RNAV (GPS) Y RWY 7L
PHOENIX SKY HARBOR INTL (PHX)

For inoperative ALS, increase visibility LPV all Cats to RVR 4500, LNAV/VNAV all Cats to RVR 6000, LNAV Cats C/D to 1⅜ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

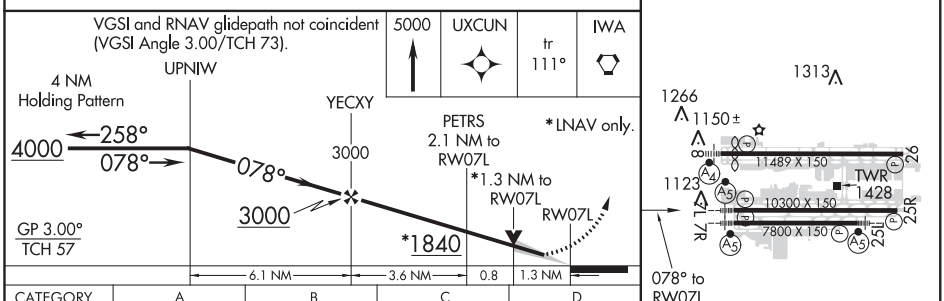
MALSR

MISSED APPROACH: Climb to 5000 direct UXCUN and via 111° track to IWA VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1116



CATEGORY	A	B	C	D
LPV DA	1389/24 273 (300-½)			
LNAV/VNAV DA	1519/50 403 (400-1)			
LNAV MDA	1580/24 464 (500-½)		1580/40 464 (500-¾)	1580/50 464 (500-1)
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 73011 W07B	APP CRS 078°	Rwy ldg 7800 TDZE 1116 Apt Elev 1135

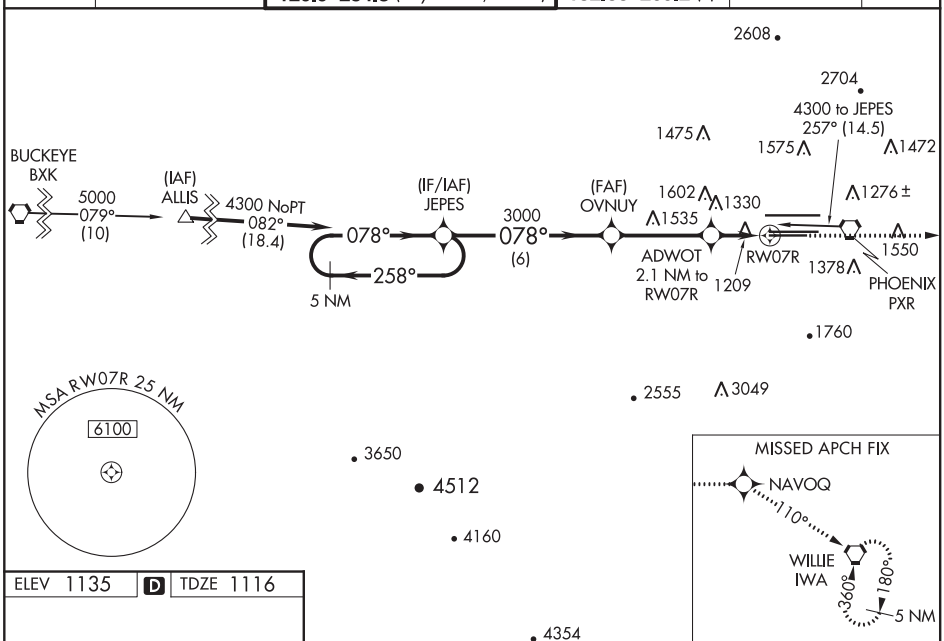
RNAV (GPS) Y RWY 7R
PHOENIX SKY HARBOR INTL (PHX)

For inop ALS, increase visibility LPV all Cats to ⅞ SM, LNAV/VNAV all Cats to 1⅛ SM, LNAV Cats A/B to 1 SM and C/D to 1⅜ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA. Rwy 7R helicopter visibility reduction below ¾ SM NA. Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

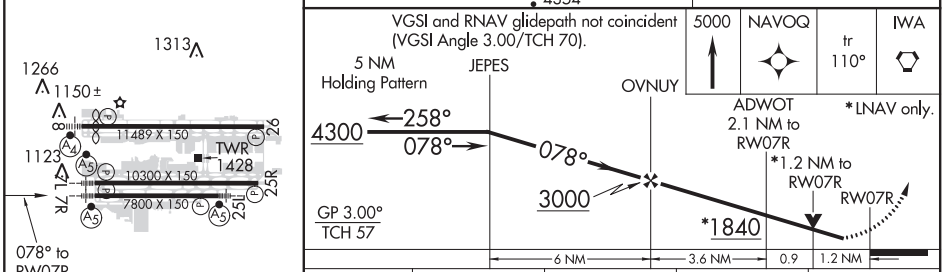
MALSR

MISSED APPROACH: Climb to 5000 direct NAVOQ and via 110° track to IWA VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1116



CATEGORY	A	B	C	D
LPV DA	1390-¾ 274 (300-¾)			
LNAV/VNAV DA	1520-1 404 (400-1)			
LNAV MDA	1580-¾ 464 (500-¾)		1580-1 464 (500-1)	
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 86611 W08A	APP CRS 078°	Rwy ldg 10591 TDZE 1118 Apt Elev 1135

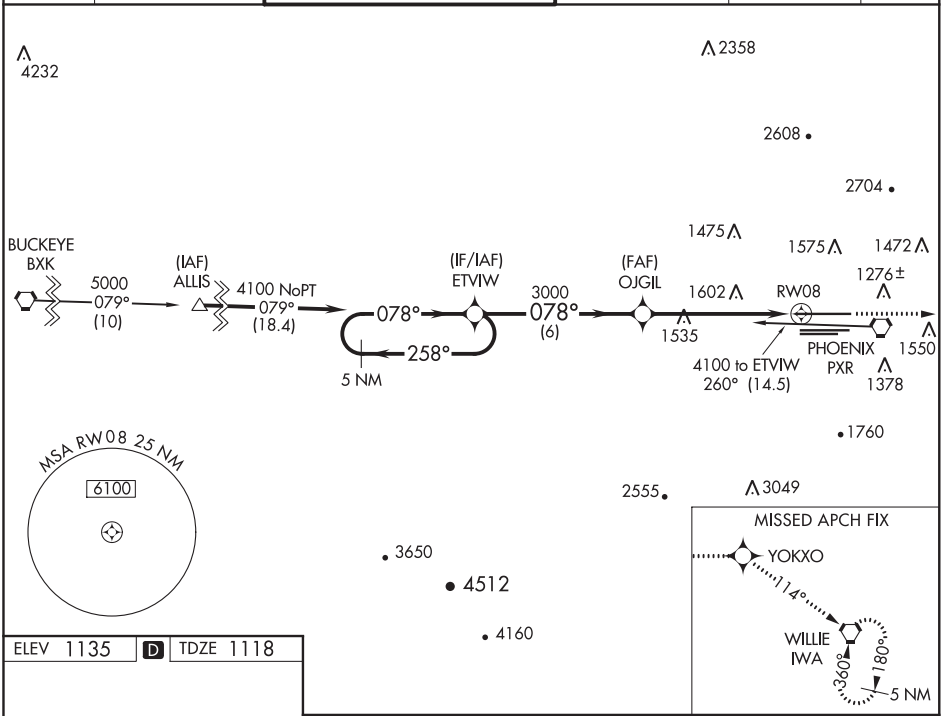
RNAV (GPS) Y RWY 8
PHOENIX SKY HARBOR INTL (PHX)

T A Inoperative table does not apply. DME/DME RNP- 0.3 NA. Rwy 8 helicopter visibility reduction below 1 SM NA.

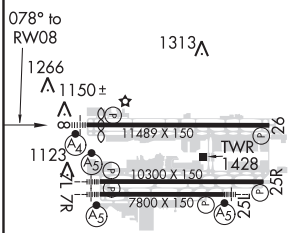
MALSF A4

MISSED APPROACH: Climb to 5000 direct YOKXO and via 114° track to IWA VORTAC and hold.

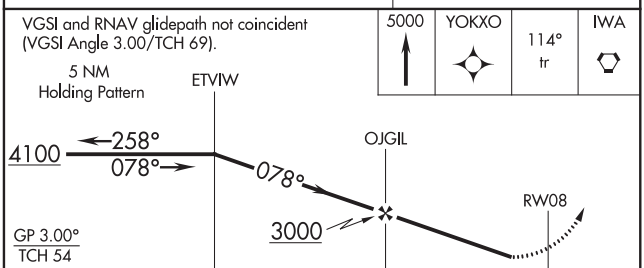
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 D TDZE 1118



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 69).



CATEGORY	A	B	C	D
LPV DA	1394-1 276 (300-1)			
LNAV MDA	1860-1 742 (800-1)	1860-1¼ 742 (800-1¼)	1860-2¼ 742 (800-2¼)	1860-2½ 742 (800-2½)
C CIRCLING	1860-1 725 (800-1)	1860-1¼ 725 (800-1¼)	2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82211 W25B	APP CRS 258°	Rwy ldg 7800 TDZE 1126 Apt Elev 1135

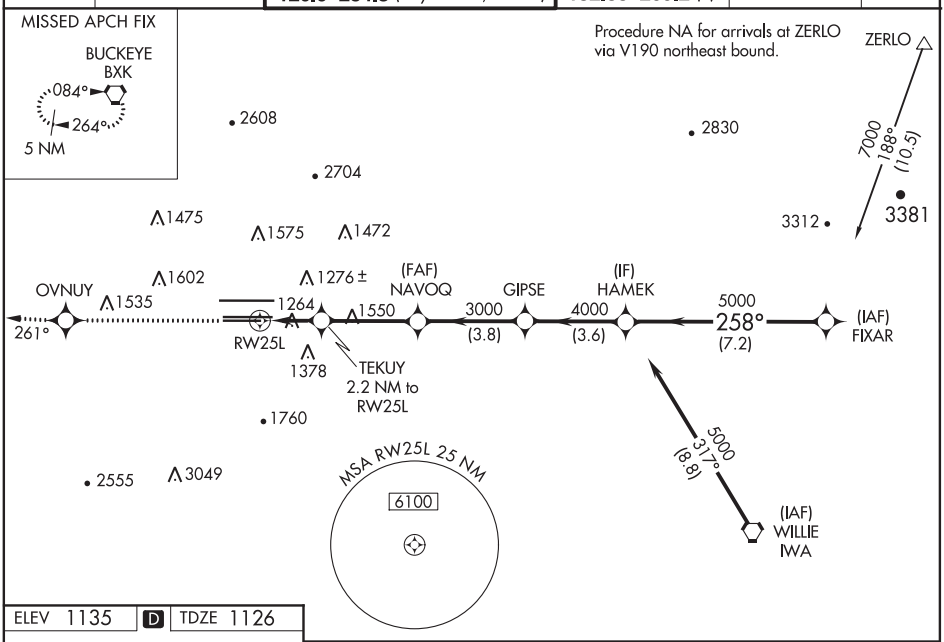
RNAV (GPS) Y RWY 25L
PHOENIX SKY HARBOR INTL (PHX)

For inop ALS, increase visibility LNAV/VNAV all Cats to 1⅜ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 26. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

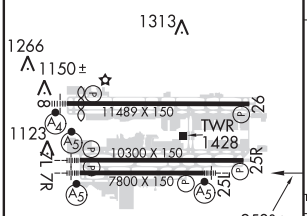
MALSR

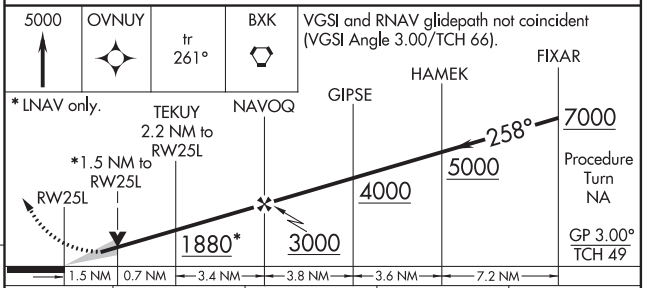
MISSED APPROACH: Climb to 5000 direct OVNUY and via 261° track to BXK VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1126





CATEGORY	A	B	C	D
LPV DA	1482-¾ 356 (400-¾)			
LNAV/VNAV DA	1613-1¼ 487 (500-1¼)			
LNAV MDA	1680-½ 554 (600-½)		1680-1⅛ 554 (600-1⅛)	1680-1¼ 554 (600-1¼)
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

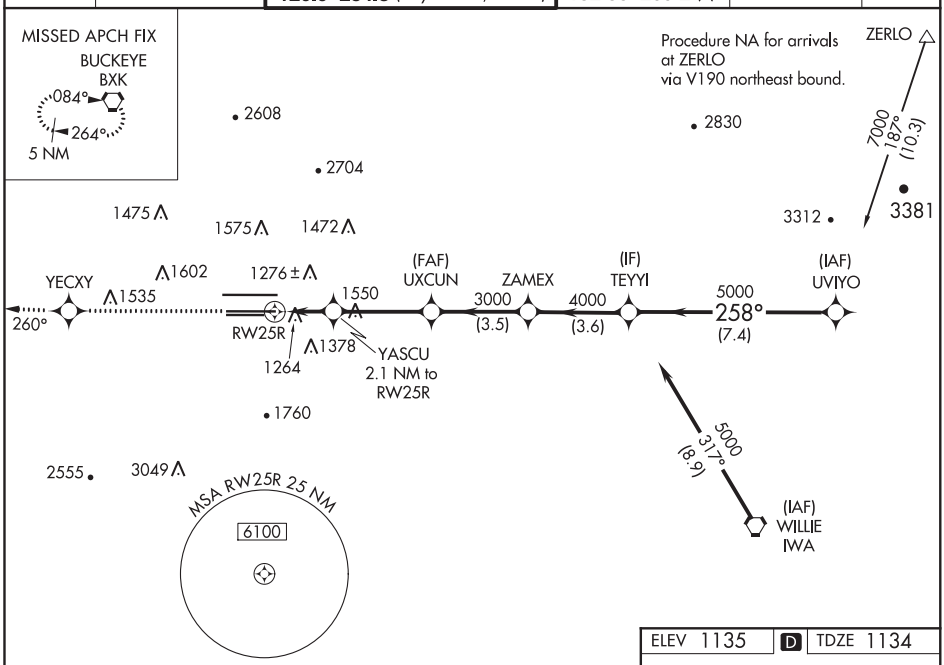
WAAS CH 40022 W25A	APP CRS 258°	Rwy ldg 10300 TDZE 1134 Apt Elev 1135

RNAV (GPS) Y RWY 25R
PHOENIX SKY HARBOR INTL (PHX)

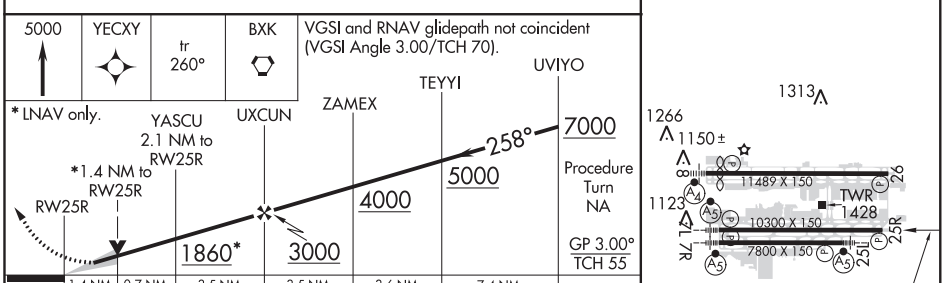
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 26. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

MISSED APPROACH: Climb to 5000 direct YECXY and via 260° track to BXK VORTAC and hold.

D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1134



CATEGORY	A	B	C	D
LPV DA	1439-1 305 (400-1)			
LNAV/VNAV DA	1580-1½ 446 (500-1½)			
LNAV MDA	1640-1 506 (600-1)		1640-1½ 506 (600-1½)	
C CIRCLING	1740-1 605 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

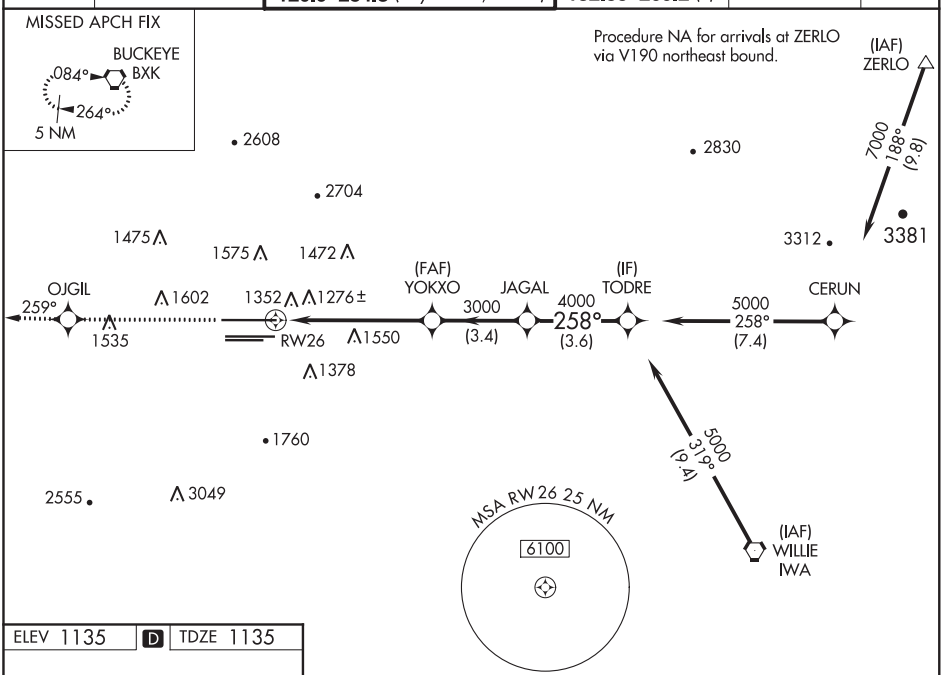
WAAS CH 70321 W26A	APP CRS 258°	Rwy ldg 11489 TDZE 1135 Apt Elev 1135

RNAV (GPS) Y RWY 26
PHOENIX SKY HARBOR INTL (PHX)

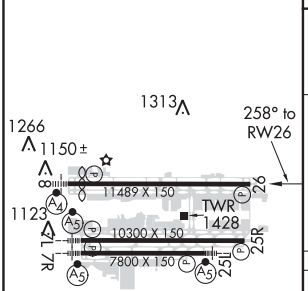
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP- 0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 25L. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations.

MISSED APPROACH: Climb to 5000 direct OJGIL and via 259° track to BXK VORTAC and hold.

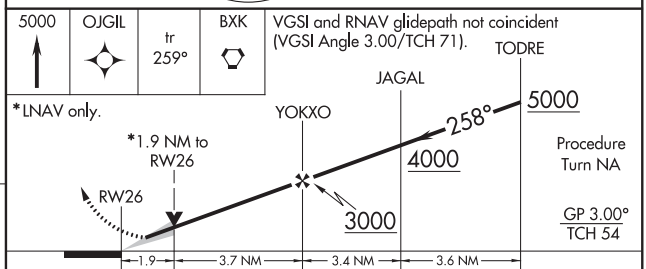
D-ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.9	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



ELEV 1135 | D | TDZE 1135

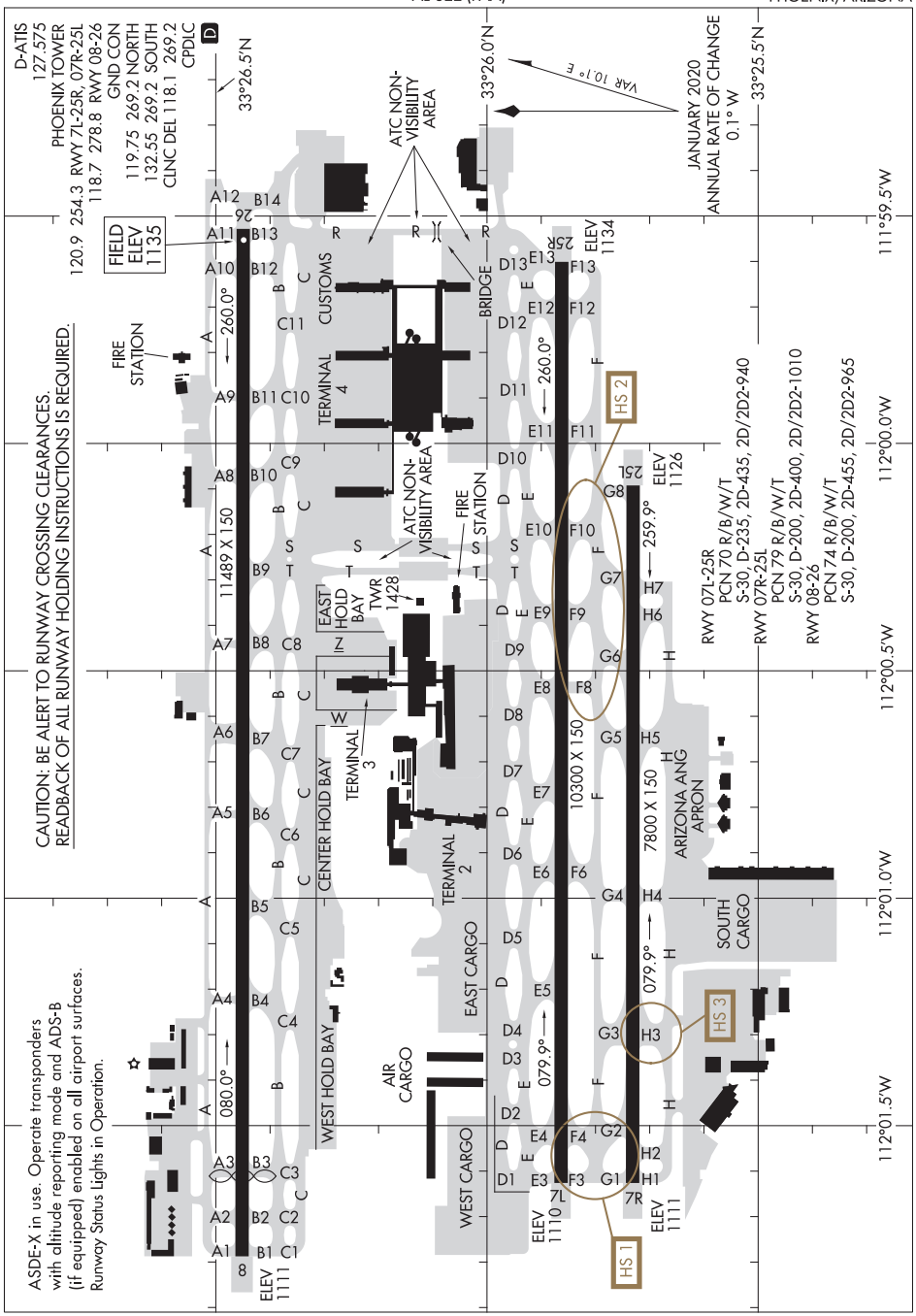


HIRL Rwys 8-26, 7L-25R and 7R-25L
REIL Rwy 26



CATEGORY	A	B	C	D
LPV DA	1436-1 301 (400-1)			
LNAV/VNAV DA	1659-1¾ 524 (600-1¾)			
LNAV MDA	1800-1 665 (700-1)		1800-1¾ 665 (700-1¾)	1800-2 665 (700-2)
C CIRCLING	1800-1 665 (700-1)		2040-2¾ 905 (1000-2¾)	2560-3 1425 (1500-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

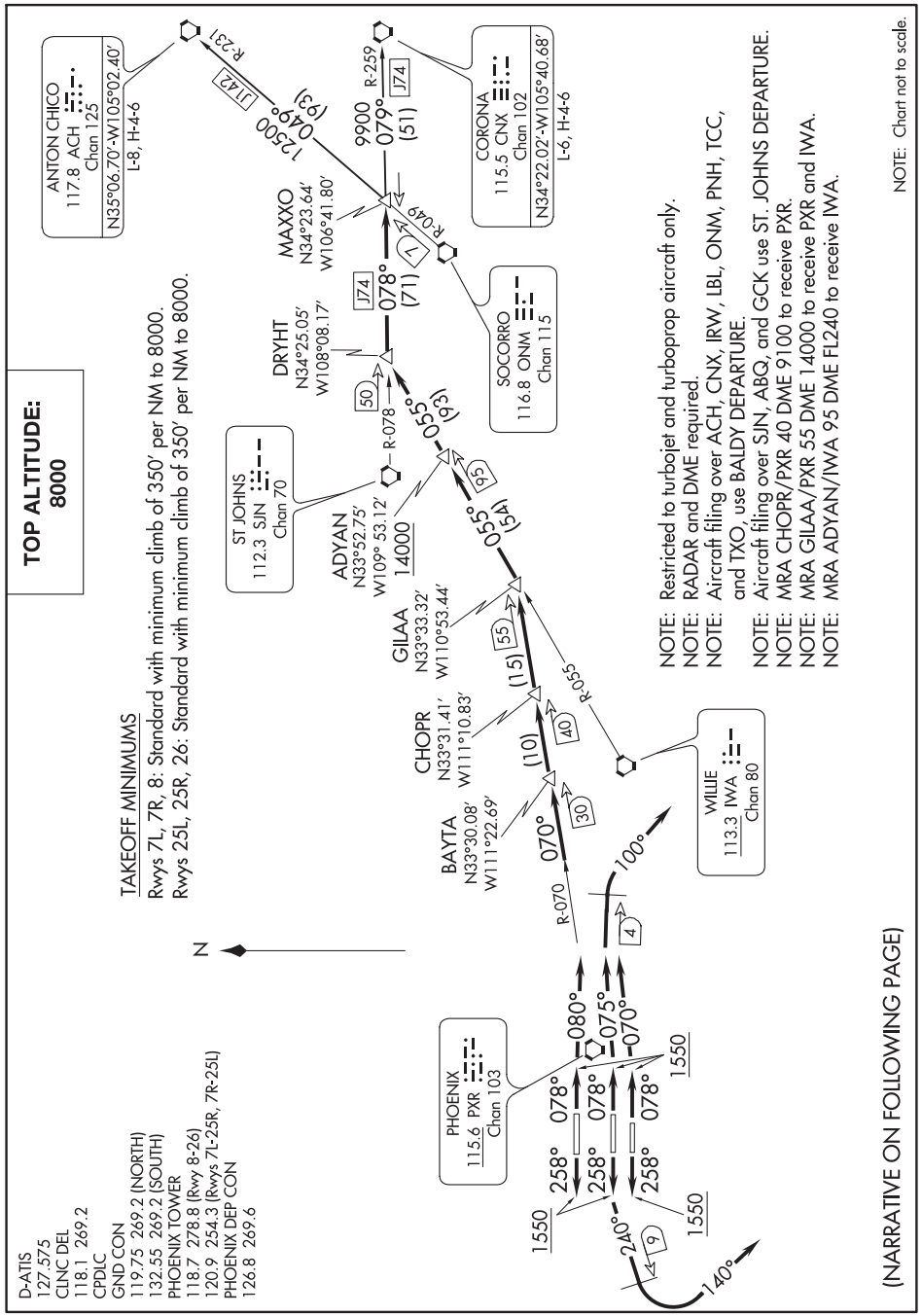

D-ATIS 127.575
PHOENIX TOWER
120.9 254.3 RWY 7L-25R, 07R-25L
118.7 278.8 RWY 08-26
GND CON
119.75 269.2 NORTH
132.55 269.2 SOUTH
CLNC DEL 118.1 269.2
CPDLC
D
FIELD ELEV 1135
33°26.5'N
33°26.0'N
33°25.5'N
VAR 10.1° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
111°59.5'W
112°00.0'W
112°00.5'W
112°01.0'W
112°01.5'W
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
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.
FIRE STATION
CUSTOMS
TERMINAL 4
ATC NON-VISIBILITY AREA
BRIDGE
ELEV 1134
ELEV 1126
ELEV 1111
ELEV 1110
26
8
25R
25L
7L
7R
260.0°
080.0°
079.9°
259.9°
11489 X 150
10300 X 150
7800 X 150
EAST HOLD BAY
TWR 1428
CENTER HOLD BAY
TERMINAL 3
TERMINAL 2
WEST HOLD BAY
AIR CARGO
EAST CARGO
WEST CARGO
ARIZONA ANG APRON
SOUTH CARGO
HS 1
HS 2
HS 3
RWY 07L-25R
PCN 70 R/B/W/T
S-30, D-235, 2D-435, 2D/2D2-940
RWY 07R-25L
PCN 79 R/B/W/T
S-30, D-200, 2D-400, 2D/2D2-1010
RWY 08-26
PCN 74 R/B/W/T
S-30, D-200, 2D-455, 2D/2D2-965

(BALDY3.MAXXO) 19059

BALDY THREE DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

BALDY THREE DEPARTURE

(BALDY3.MAXXO) 28FEB19

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence . . . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence . . . .

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence . . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence . . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 140°. Thence . . . .

. . . . maintain 8000 for RADAR vectors to PXR R-070 to GILAA/PXR 55 DME, then pilot nav on IWA R-055 to ADYAN/IWA 95 DME, cross ADYAN at or above 14000 and proceed on RADAR vector 055° to join SJN R-078/CNX R-259 to MAXXO/CNX 51 DME; then (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ANTON CHICO TRANSITION (BALDY3.ACH): From over MAXXO INT on ONM R-049 and ACH R-231 to ACH VORTAC.

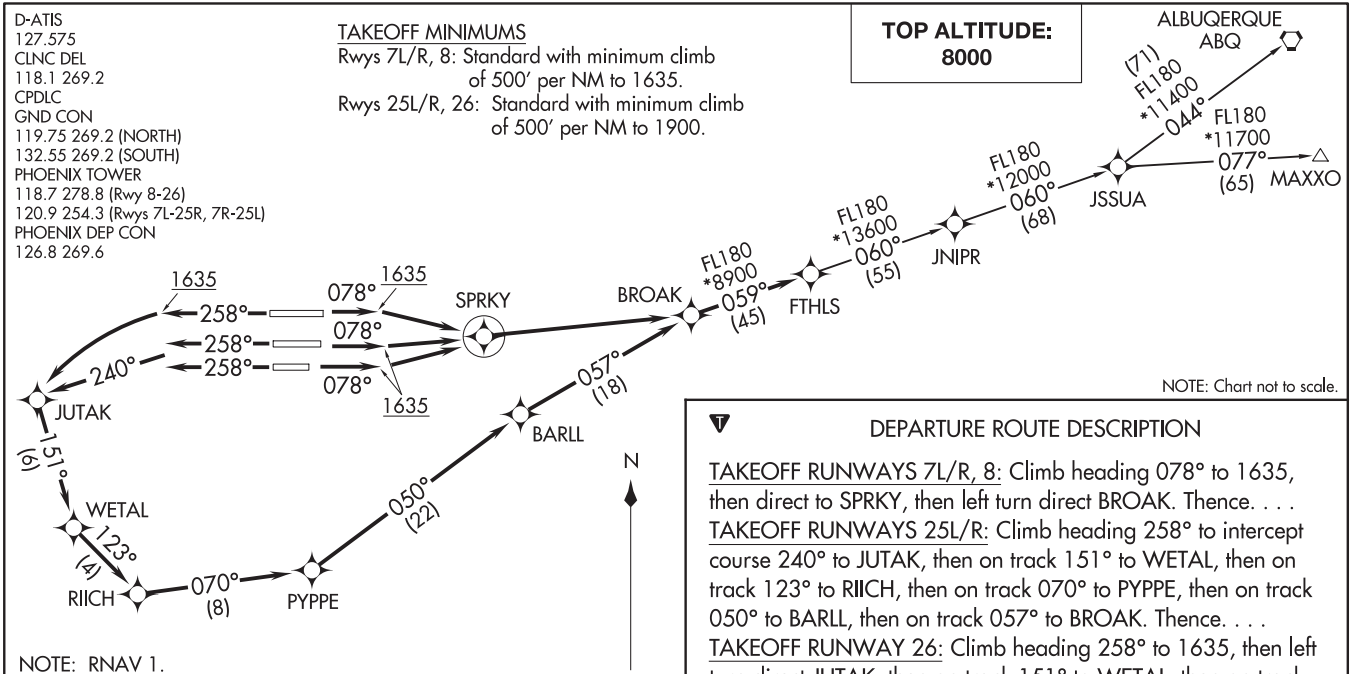
CORONA TRANSITION (BALDY3.CNX): From over MAXXO INT on CNX R-259 to CNX VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6

TAKEOFF MINIMUMS
Rwys 7L/R, 8: Standard with minimum climb of 500′ per NM to 1635.
Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1900.

TOP ALTITUDE: 8000



NOTE: Chart not to scale.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file BROAK DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file FORPE DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file MRBIL DEPARTURE.
NOTE: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then left turn direct BROAK. Thence. . . .
TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 070° to PYPPE, then on track 050° to BARLL, then on track 057° to BROAK. Thence. . . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 070° to PYPPE, then on track 050° to BARLL, then on track 057° to BROAK. Thence. . . .

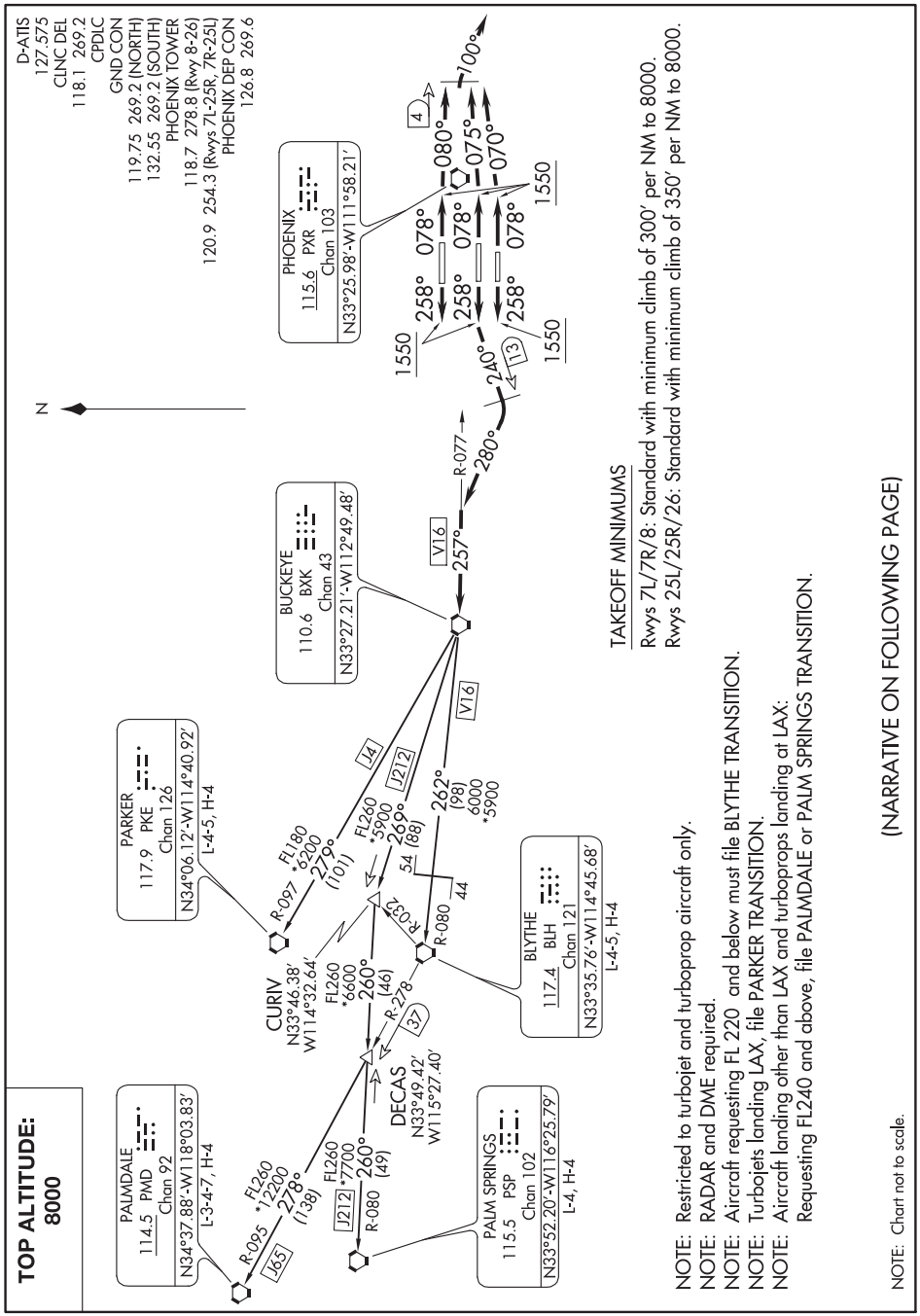
. . . on track 059° to FTHLS, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (BROAK1.ABQ)

JNIPR TRANSITION (BROAK1.JNIPR)

MAXXO TRANSITION (BROAK1.MAXXO)

(BROAK1.BROAK) 18144
BROAK ONE DEPARTURE (RNAV)
AL-322 (FAA)
PHOENIX SKY HARBOR INTL (PHIX)
PHOENIX, ARIZONA



TAKEOFF MINIMUMS

Rwys 7L/7R/8: Standard with minimum climb of 300' per NM to 8000.
Rwys 25L/25R/26: Standard with minimum climb of 350' per NM to 8000.

NOTE: Restricted to turbojet and turboprop aircraft only.
NOTE: RADAR and DME required.
NOTE: Aircraft requesting FL 220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file PARKER TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX:
Requesting FL240 and above, file PALMDALE or PALM SPRINGS TRANSITION.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXK VORTAC. Thence . . . .

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXK VORTAC. Thence . . . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Expect RADAR vectors to BXK VORTAC. Thence . . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXK R-077 to BXK VORTAC. Thence . . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXK R-077 to BXK VORTAC. Thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 13 DME west of PXR VORTAC, climbing right turn heading 280° to the BXK R-077 to BXK VORTAC. Thence . . . .

. . . . maintain 8000, thence via (transition). Expect filed altitude 3 minutes after departure.

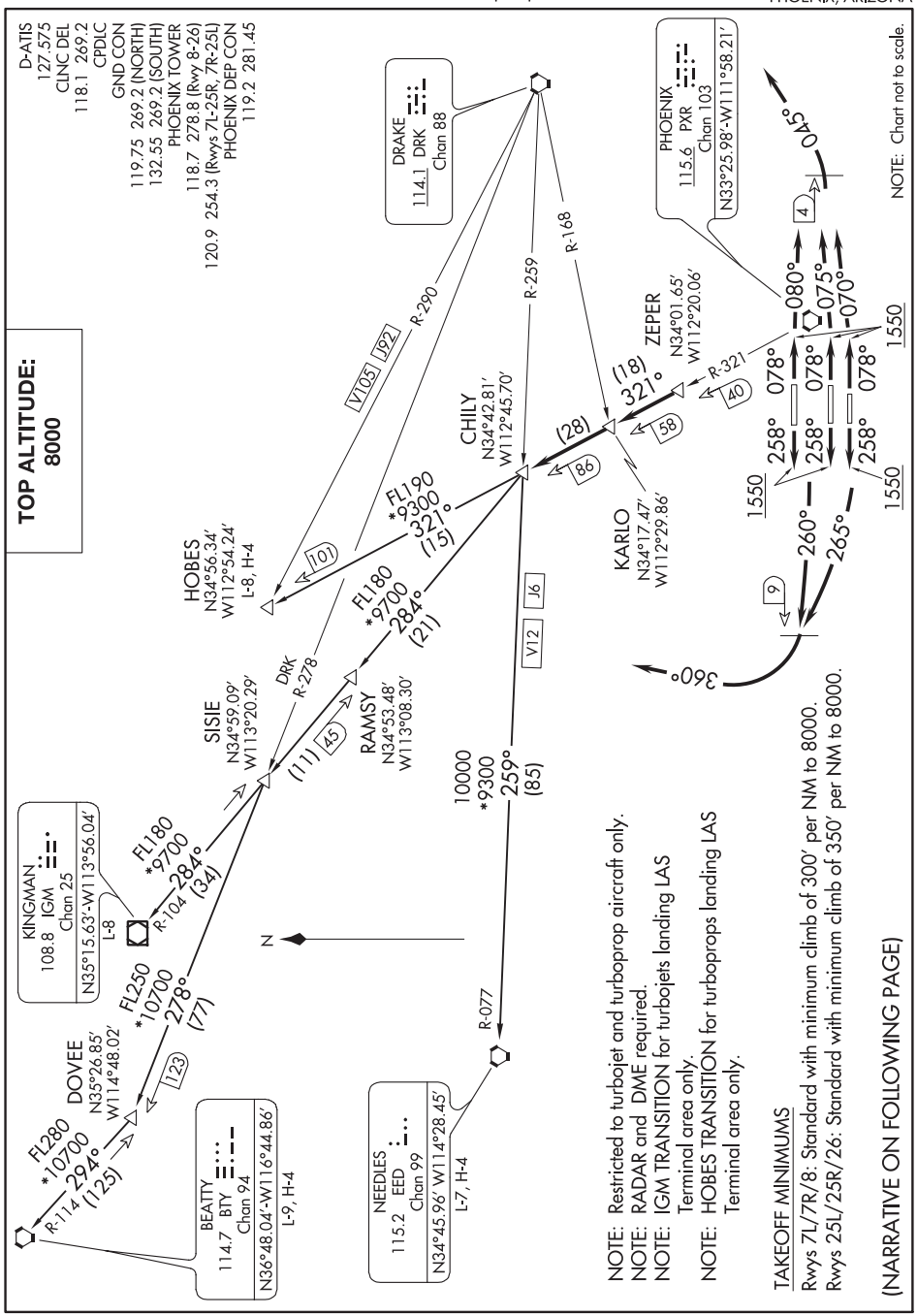
LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (BXK4.BLH): From over BXK VORTAC via BXK R-262 and BLH R-080 to BLH VORTAC.

PALMDALE TRANSITION (BXK4.PMD): From over BXK VORTAC via BXK R-269 to CURIV INT, then via PSP R-080 to DECAS INT, then via BLH R-278 and PMD R-095 to PMD VORTAC.

PALM SPRINGS TRANSITION (BXK4.PSP): From over BXK VORTAC via BXK R-269 to CURIV INT, then via PSP R-080 to PSP VORTAC.

PARKER TRANSITION (BXK4.PKE): From over BXK VORTAC via BXK R-279 and PKE R-097 to PKE VORTAC.



SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence . . . .
TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence . . . .
TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045°. Thence . . . .
TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence . . . .
TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence . . . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°. Thence . . . .

. . . . maintain 8000, expect RADAR vectors to PXR R-321 to ZEPER/PXR 40 DME then CHILY INT. Thence via (transition). Expect filed altitude 3 minutes after departure.

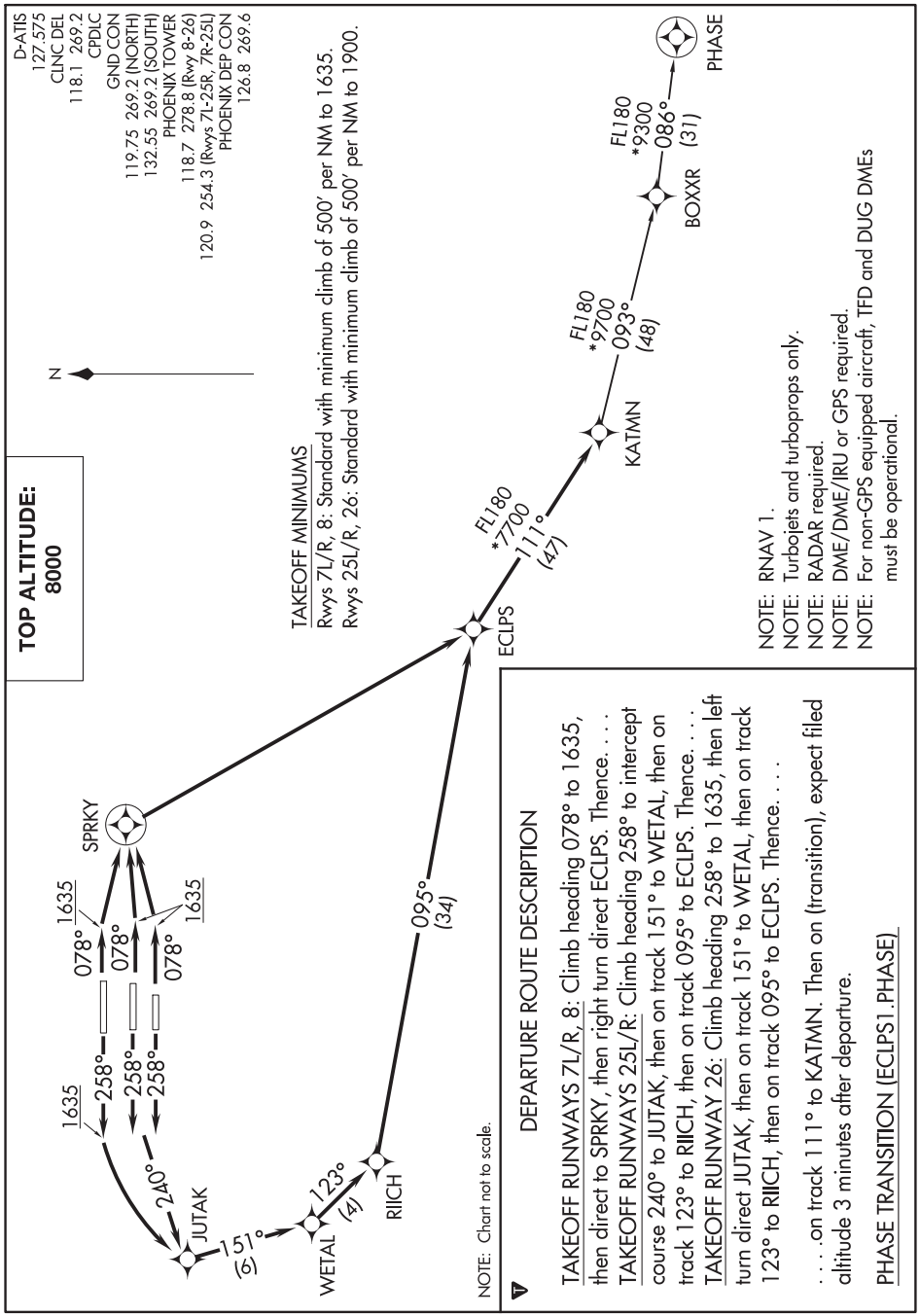
LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BEATTY TRANSITION (CHILY4.BTY): From over CHILY INT via IGM R-104 to SISIE INT, then via DRK R-278 to DOVEE INT, then via BTY R-114 to BTY VORTAC.

HOBES TRANSITION (CHILY4.HOBES): From over CHILY INT via PXR R-321 to HOBES INT.

KINGMAN TRANSITION (CHILY4.IGM): From over CHILY INT via IGM R-104 to IGM VOR/DME.

NEEDLES TRANSITION (CHILY4.EED): From over CHILY INT via DRK R-259 and EED R-077 to EED VORTAC.


D-ATIS 127.575
CLNC DEL 118.1 269.2
CPDLC
GND CON 119.75 269.2 (NORTH) 132.55 269.2 (SOUTH)
PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON 126.8 269.6
N
TOP ALTITUDE: 8000
TAKEOFF MINIMUMS
Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1635.
Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1900.
SPRKY
1635
078°
258°
240°
JUTAK
151°
(6)
WETAL
123°
(4)
RIICH
095°
(34)
ECLPS
FL180
*7700
111°
(47)
KATMN
FL180
*9700
093°
(48)
BOXXR
FL180
*9300
086°
(31)
PHASE
NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then right turn direct ECLPS. Thence. . . .
TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 095° to ECLPS. Thence. . . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 123° to RIICH, then on track 095° to ECLPS. Thence. . . .
. . . .on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.
PHASE TRANSITION (ECLPS1.PHASE)
NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft, TFD and DUG DMEs must be operational.

(FORPE1.FORPE) 18144

FORPE ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

TOP ALTITUDE: 8000

TAKEOFF MINIMUMS
Rwys 7L/R, 8: Standard with minimum climb of 500′ per NM to 1635 then minimum climb of 250′ per NM to 7300.
Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1635.

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

ZILUB
035° (12)
OXYGN
002° (5)
ZIDOG 5000 230K
HIRVU
349° (5)
349° (6)
349° (6)
OSGUE
YOVKU
WIVLA 1635
260° (6)
JINOL 1635
260° (7)
ZOLUP 1635
260° (7)
258°
078°
1635
SPRKY
084° (37)
FORPE
FL180 *10000 055° (57)
LALUZ
FL180 *11000 055° (58)
ST JOHNS SJN
080°
FL180 *11300 (56)
JSSUA
FL180 *11700 077° (65) MAXXO
FL180 *11100 059° (121) FL180 *11700
ALBUQUERQUE ABQ
N

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS and points north of ALS, file MRBIL DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI and GCK, file FORPE DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW, and TXO, file BROAK DEPARTURE.
NOTE: For non-GPS equipped aircraft using MAXXO and ABQ TRANSITIONS, ABQ DME must be operational.
NOTE: For non-GPS equipped aircraft, PXR DME must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 25L/R and 26, IWA and TFD DMEs must be operational.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020

FORPE ONE DEPARTURE (RNAV)

(FORPE1.FORPE) 24MAY18

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1635, then direct SPRKY, then left turn direct FORPE, thence . . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOVKU, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence . . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 084° to FORPE, thence . . . .

. . . . on track 055° to LALUZ, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FORPE1.ABQ)
MAXXO TRANSITION (FORPE1.MAXXO)
ST JOHNS TRANSITION (FORPE1.SJN)

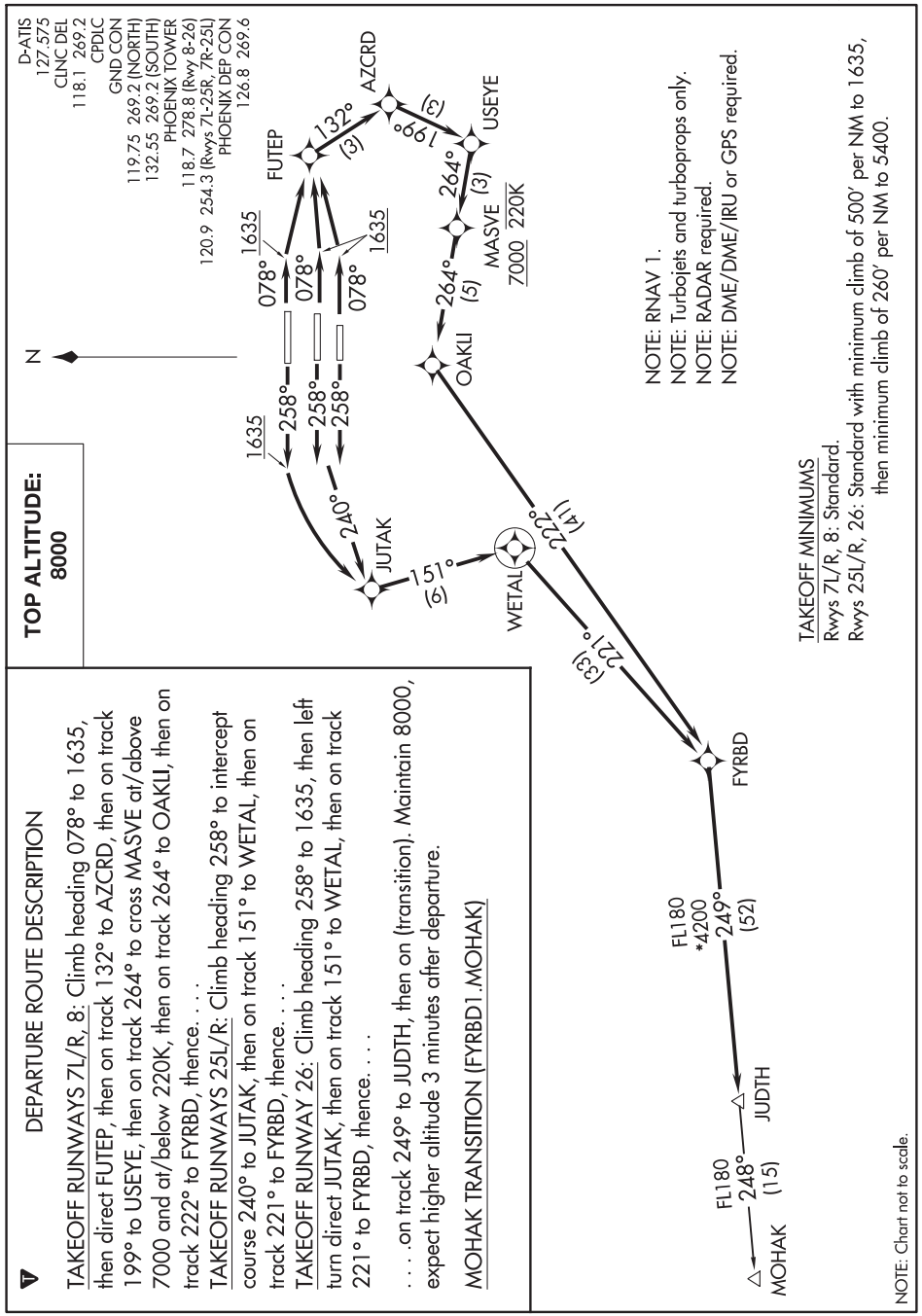
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(FYRBD1.FYRBD) 18144

FYRBD ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

FYRBD ONE DEPARTURE (RNAV)

(FYRBD1.FYRBD) 24MAY18

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

TOP ALTITUDE: 8000

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct FUTEP, then on track 132° to AZCRD, then on track 199° to USEYE, then on track 264° to cross MASVE at/above 7000 and at/below 220K, then on track 264° to OAKLI, then on track 268° to KEENS, thence. . . .

TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to WULKO, then on track 268° to KEENS, thence. . . .

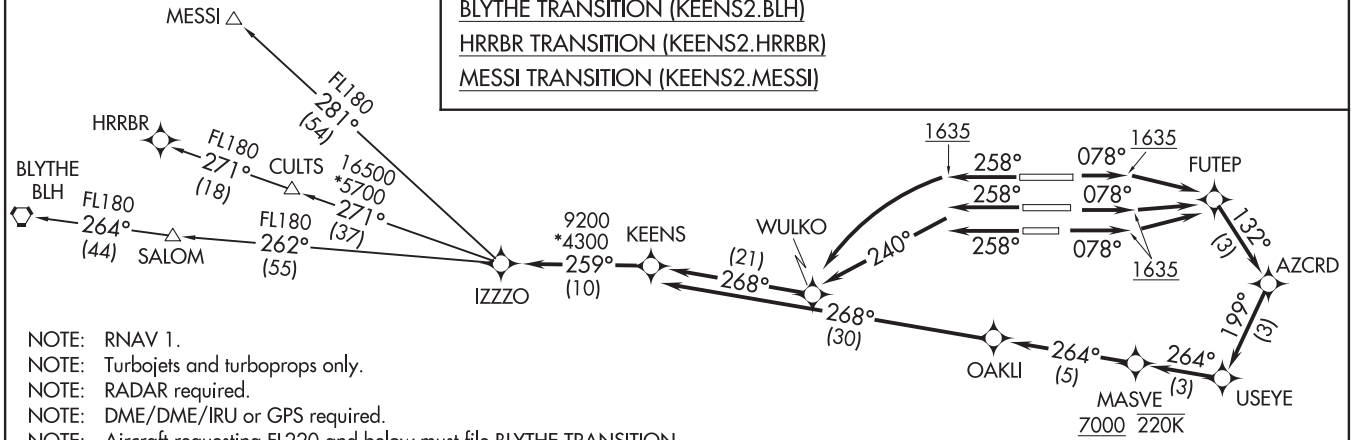
TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct WULKO, then on track 268° to KEENS, thence. . . .

. . . .on track 259° to IZZZO, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

BLYTHE TRANSITION (KEENS2.BLH)

HRRBR TRANSITION (KEENS2.HRRBR)

MESSI TRANSITION (KEENS2.MESSI)



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.

NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 7L/R, 8: Standard.
Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1635.

(MOBIE4.MOBIE) 18088

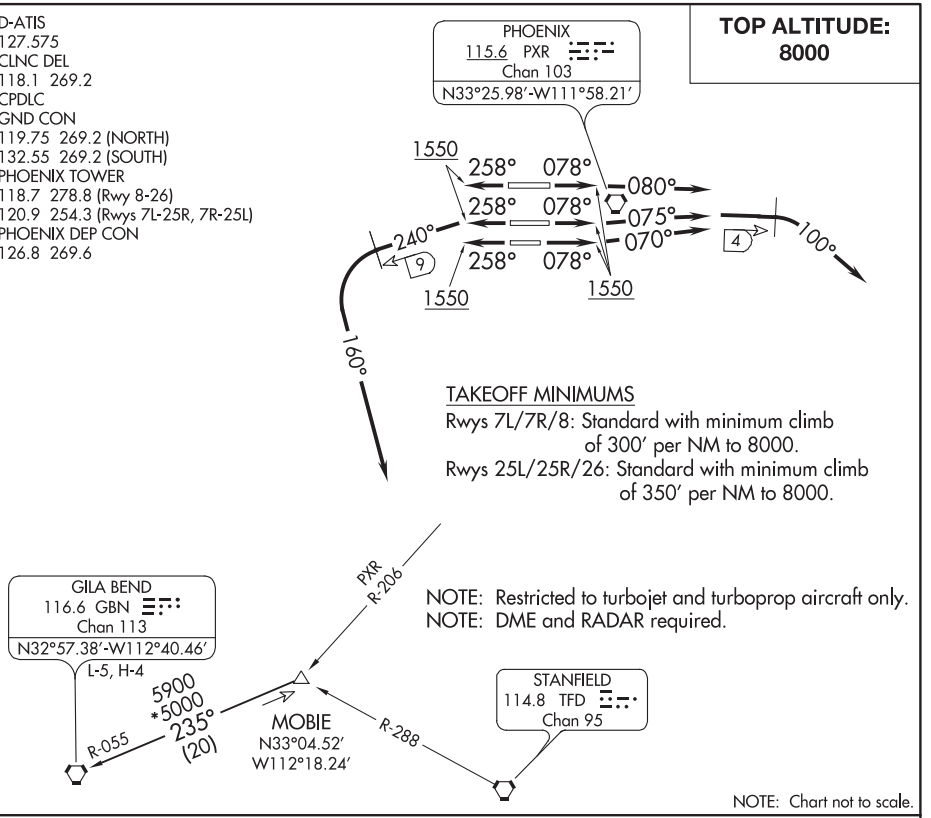
MOBIE FOUR DEPARTURE

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6

TOP ALTITUDE: 8000



TAKEOFF MINIMUMS
Rwys 7L/7R/8: Standard with minimum climb of 300′ per NM to 8000.
Rwys 25L/25R/26: Standard with minimum climb of 350′ per NM to 8000.

NOTE: Restricted to turbojet and turboprop aircraft only.
NOTE: DME and RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .
TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .
TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .
TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . . .
TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . . .
TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . . .

. . . . maintain 8000, expect RADAR vectors to MOBIE INT thence via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

GILA BEND TRANSITION (MOBIE4.GBN): From over MOBIE INT via GBN R-055 to GBN VORTAC.

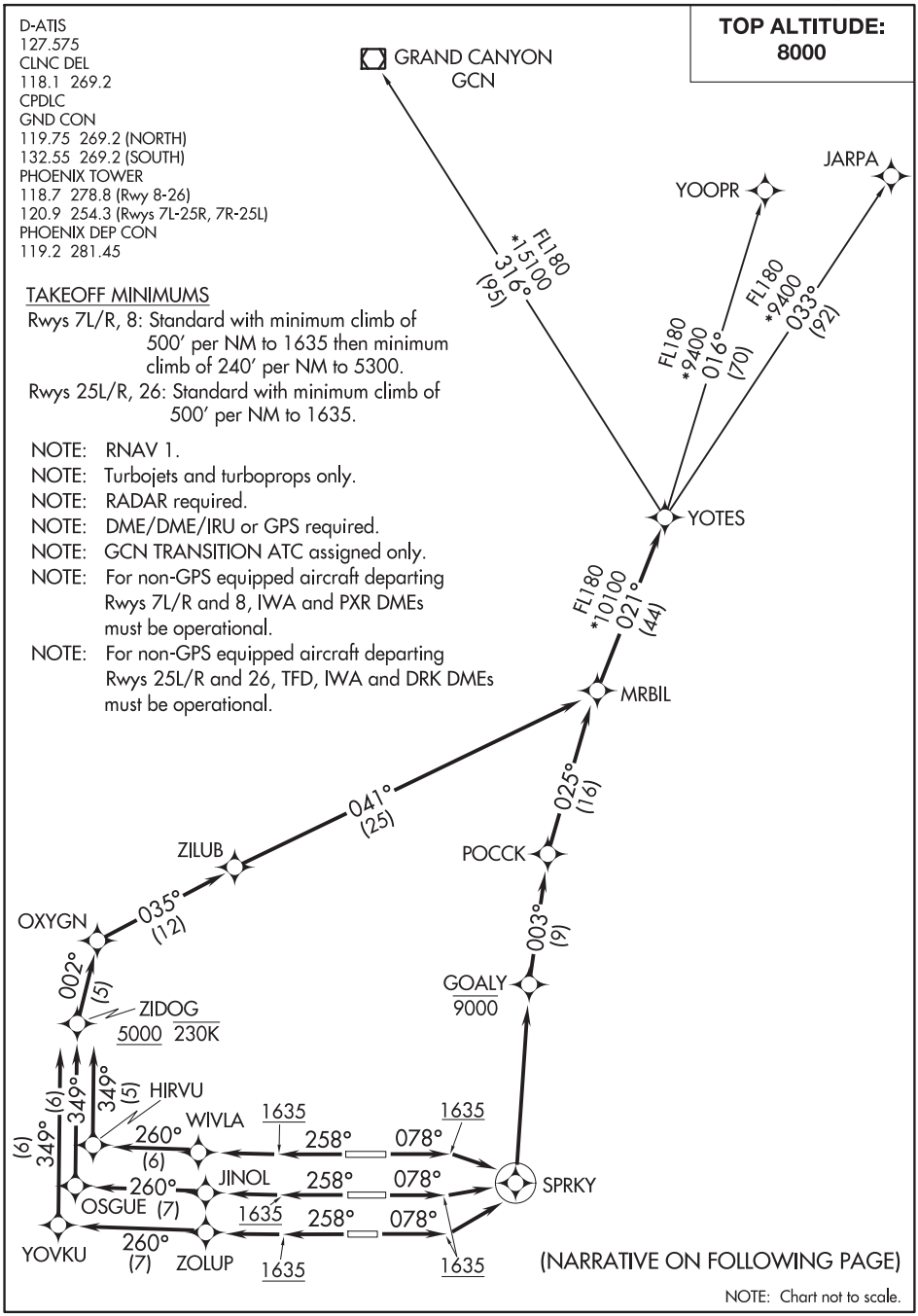
SW-4, 05 NOV 2020 to 31 DEC 2020

MRBIL ONE DEPARTURE (RNAV)

AL-322 (FAA)

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

TOP ALTITUDE: 8000



TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500′ per NM to 1635 then minimum climb of 240′ per NM to 5300.

Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1635.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: For non-GPS equipped aircraft departing Rwys 7L/R and 8, IWA and PXR DMEs must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 25L/R and 26, TFD, IWA and DRK DMEs must be operational.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to SPRKY, then turn left direct to cross GOALY at/below 9000, then on track 003° to POCCK, then on track 025° to MRBIL, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOVKU, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at/above 5000 and at/below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 041° to MRBIL, thence. . . .

. . . .on track 021° to YOTES, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

GRAND CANYON TRANSITION (MRBIL1.GCN)
JARPA TRANSITION (MRBIL1.JARPA)
YOOPR TRANSITION (MRBIL1.YOOPR)

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

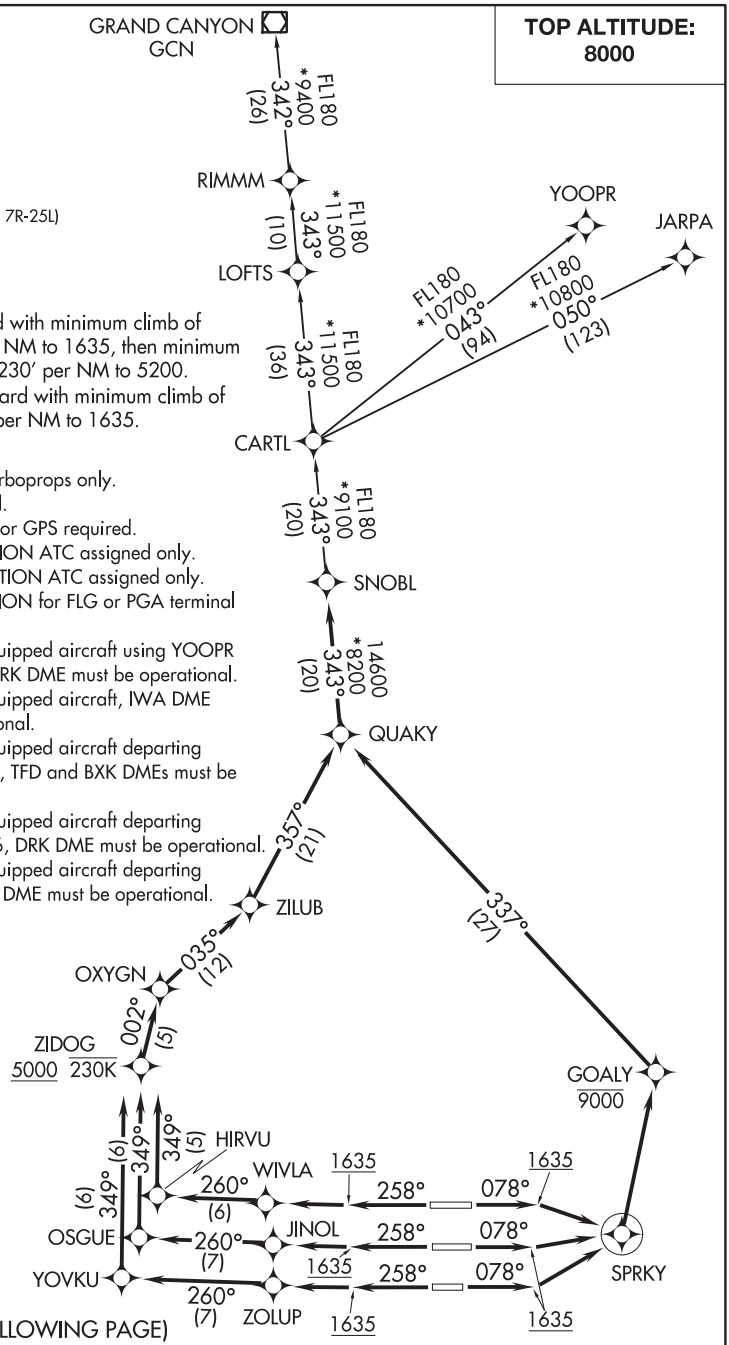
TOP ALTITUDE: 8000

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500′ per NM to 1635, then minimum climb of 230′ per NM to 5200.

Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1635.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: For non-GPS equipped aircraft using YOOPR TRANSITION, DRK DME must be operational.
NOTE: For non-GPS equipped aircraft, IWA DME must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 25L/R, 26, TFD and BXK DMEs must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 8, 25R, 26, DRK DME must be operational.
NOTE: For non-GPS equipped aircraft departing Rwys 7L/R, PXR DME must be operational.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct SPRKY, then left turn direct to cross GOALY at/below 9000, then on track 337° to QUAKY, thence . . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1635, then direct ZOLUP, then on track 260° to YOVKU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence . . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 002° to OXYGN, then on track 035° to ZILUB, then on track 357° to QUAKY, thence . . . .

. . . . on track 343° to SNOBL, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

CARTL TRANSITION (QUAKY1.CARTL)
GRAND CANYON TRANSITION (QUAKY1.GCN)
JARPA TRANSITION (QUAKY1.JARPA)
RIMMM TRANSITION (QUAKY1.RIMMM)
YOOPR TRANSITION (QUAKY1.YOOPR)

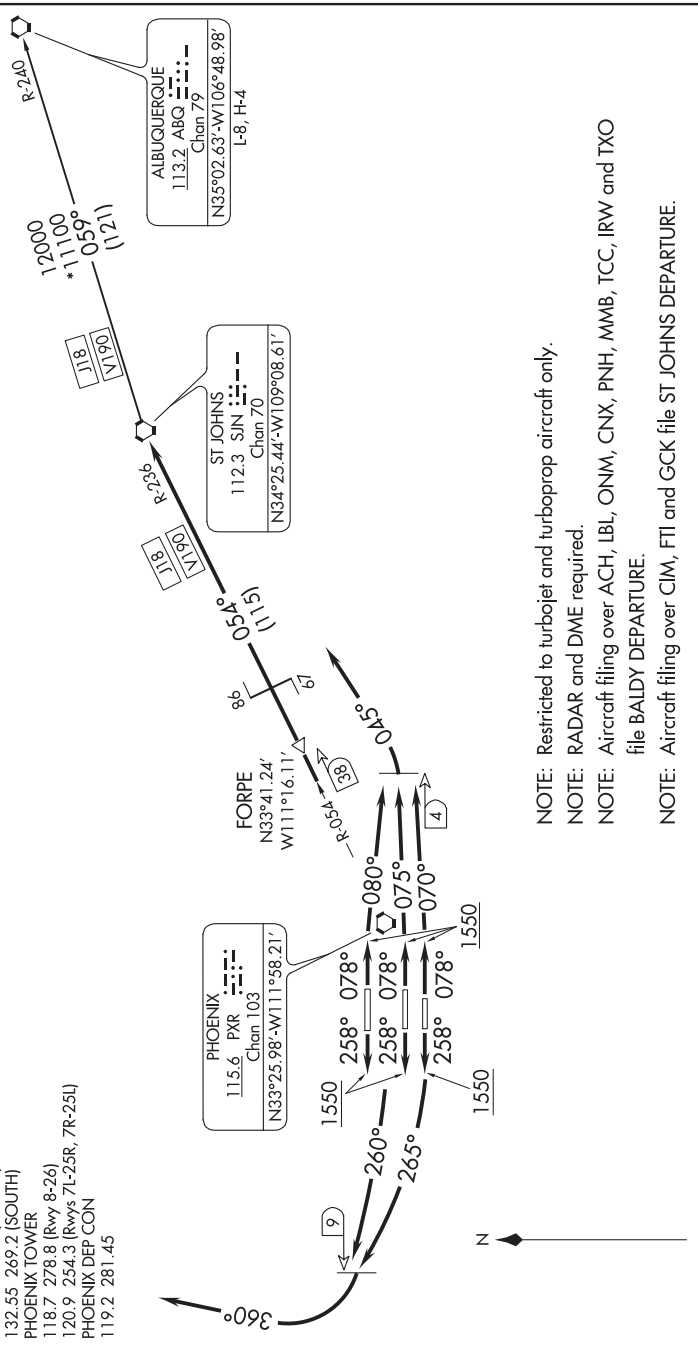
SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: 8000

TAKEOFF MINIMUMS

Rwys 7L, 7R, 8: Standard with minimum climb of 350' per NM to 8000.
Rwys 25L, 25R, 26: Standard with minimum climb of 350' per NM to 8000.

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45



NOTE: Restricted to turbojet and turboprop aircraft only.
NOTE: RADAR and DME required.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file BALDY DEPARTURE.
NOTE: Aircraft filing over CIM, FTI and GCK file ST JOHNS DEPARTURE.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence . . . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence . . . .

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing left turn heading 045° to PXR R-054 to SJN VORTAC, maintain 8000. Thence . . . .

TAKEOFF RUNWAY 25L: Climb heading 258° to 1550, then climbing right turn heading 265°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence . . . .

TAKEOFF RUNWAY 25R: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1550, then climbing right turn heading 260°, at 9 DME west of PXR VORTAC, climbing right turn heading 360°, maintain 8000 for RADAR vectors to PXR R-054 to SJN VORTAC. Thence . . . .

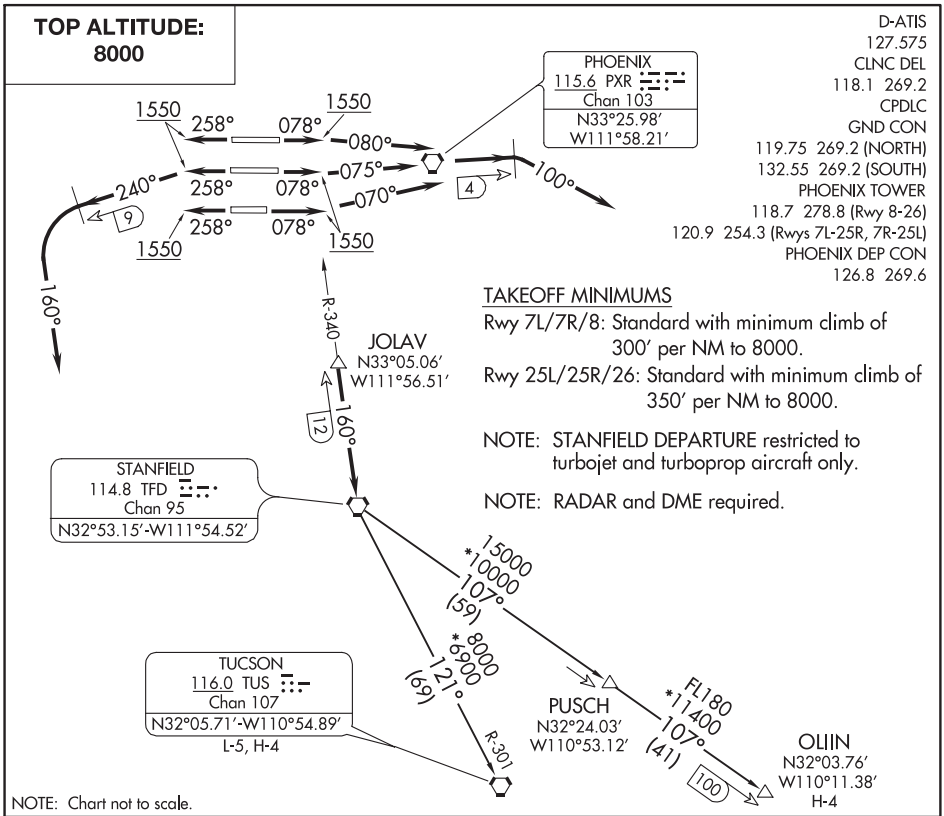
. . . . (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SJN9.ABQ): From over SJN VORTAC on SJN R-059 and ABQ R-240 to ABQ VORTAC.

TOP ALTITUDE: 8000

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
126.8 269.6



TAKEOFF MINIMUMS

Rwy 7L/7R/8: Standard with minimum climb of 300′ per NM to 8000.

Rwy 25L/25R/26: Standard with minimum climb of 350′ per NM to 8000.

NOTE: STANFIELD DEPARTURE restricted to turbojet and turboprop aircraft only.

NOTE: RADAR and DME required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 1550, then climbing right turn heading 080°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .

TAKEOFF RUNWAY 7L: Climb heading 078° to 1550, then climbing left turn heading 075°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .

TAKEOFF RUNWAY 7R: Climb heading 078° to 1550, then climbing left turn heading 070°, at 4 DME east of PXR VORTAC, climbing right turn heading 100°. Thence. . . .

TAKEOFF RUNWAY 25L/25R/26: Climb heading 258° to 1550, then climbing left turn heading 240°, at 9 DME west of PXR VORTAC, climbing left turn heading 160°. Thence. . . .

. . . .maintain 8000, expect RADAR vectors to TFD R-340 to TFD VORTAC. Thence via (Transition). Expect further clearance to filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

OLIIN TRANSITION (TFD4.OLIIN): From over TFD VORTAC on TFD R-107 to OLIIN INT.

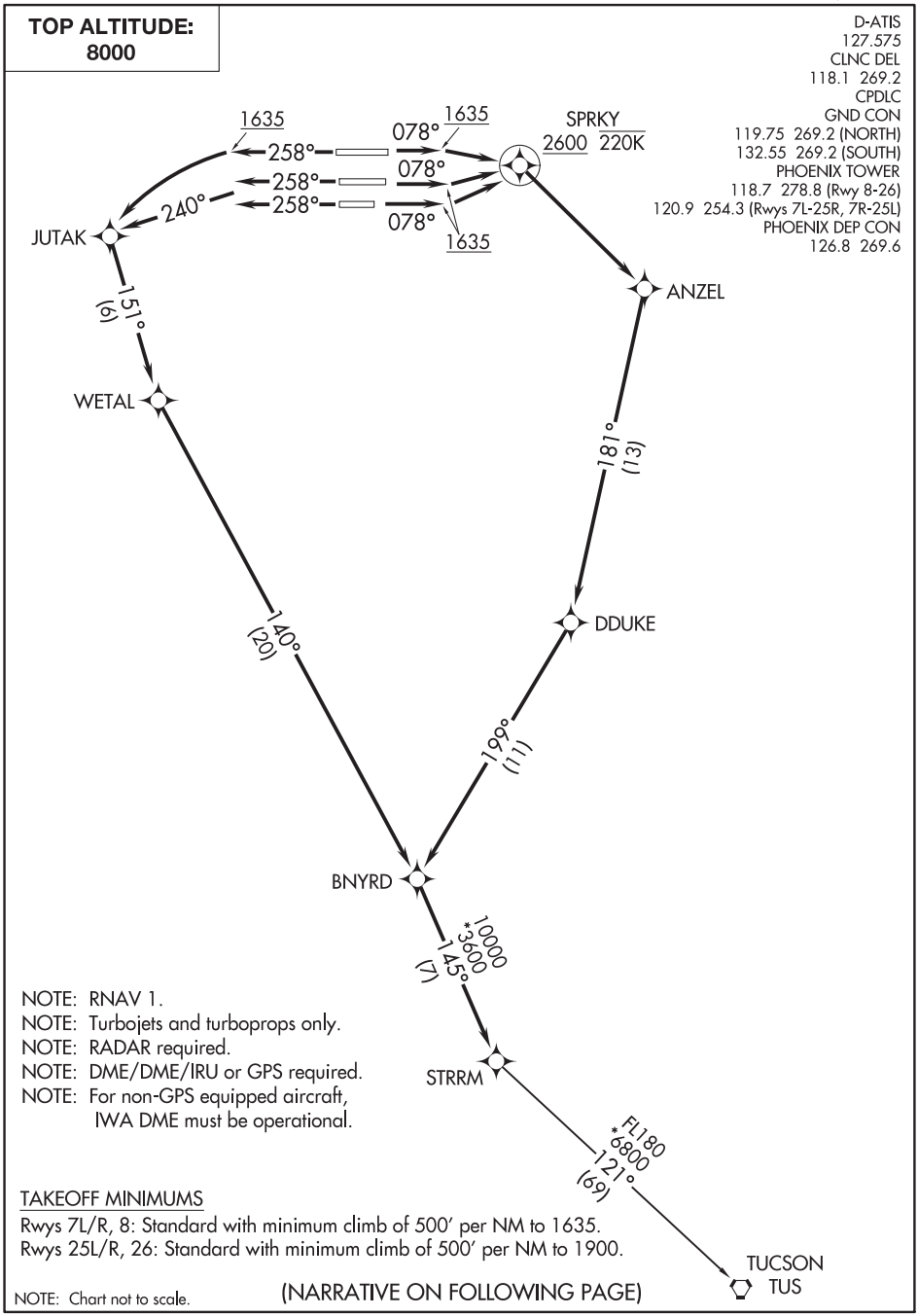
TUCSON TRANSITION (TFD4.TUS): From over TFD VORTAC on TFD R-121 and TUS R-301 to TUS VORTAC.

(STRRM1.STRRM) 18144

STRRM ONE DEPARTURE (RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

STRRM ONE DEPARTURE (RNAV)

(STRRM1.STRRM) 24MAY18

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb heading 078° to 1635, then direct to cross SPRKY at or above 2600 and at or below 220K, then right turn direct ANZEL, then on track 181° to DDUKE, then on track 199° to BNYRD, thence . . . .

TAKEOFF RUNWAYS 25L/R: Climb heading 258° to intercept course 240° to JUTAK, then on track 151° to WETAL, then on track 140° to BNYRD, thence . . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 1635, then left turn direct JUTAK, then on track 151° to WETAL, then on track 140° to BNYRD, thence . . . .

. . . . on track 145° to STRRM, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

TUCSON TRANSITION (STRRM1.TUS)

SW-4, 05 NOV 2020 to 31 DEC 2020

(ZEPER2.ZEPER) 20170

ZEPER TWO DEPARTURE(RNAV)

AL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

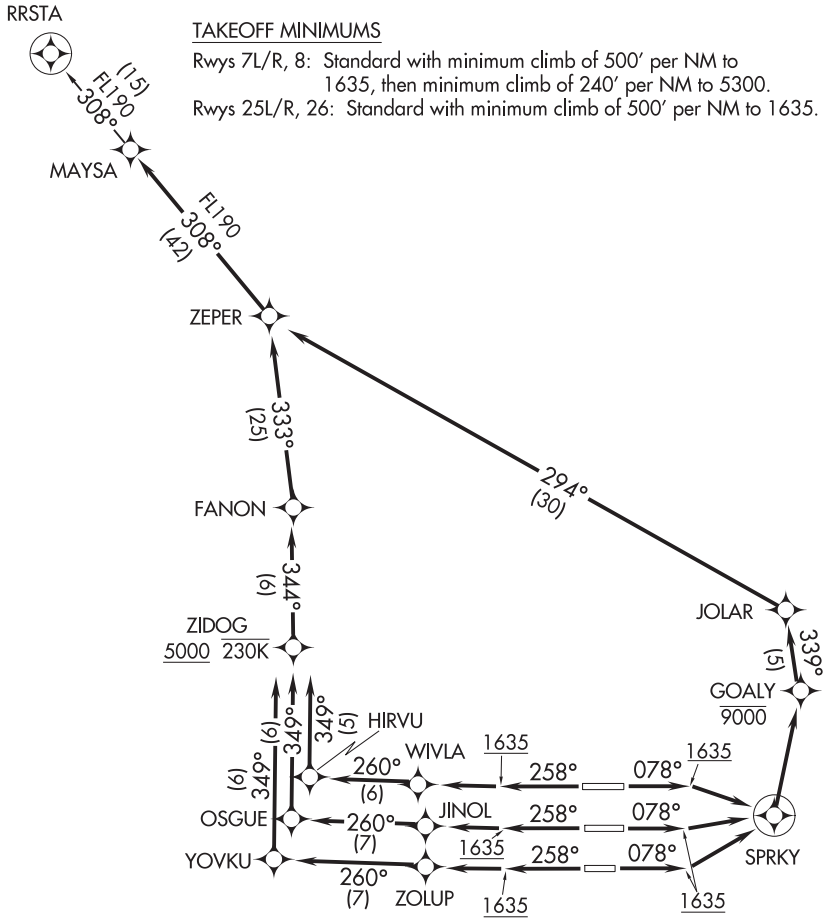
TOP ALTITUDE: 8000

D-ATIS
127.575
CLNC DEL
118.1 269.2
CPDLC
GND CON
119.75 269.2 (NORTH)
132.55 269.2 (SOUTH)
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwys 7L-25R, 7R-25L)
PHOENIX DEP CON
119.2 281.45

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500′ per NM to 1635, then minimum climb of 240′ per NM to 5300.
Rwys 25L/R, 26: Standard with minimum climb of 500′ per NM to 1635.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L/R, 8: Climb on heading 078° to 1635, then direct SPRKY, then turn left direct to cross GOALY at or below 9000, then on track 339° to JOLAR, then on track 294° to ZEPER. Thence . . . .

TAKEOFF RUNWAY 25L: Climb on heading 258° to 1635, then direct ZOLUP, then on track 260° to YOVKU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence . . . .

TAKEOFF RUNWAY 25R: Climb on heading 258° to 1635, then direct JINOL, then on track 260° to OSGUE, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence . . . .

TAKEOFF RUNWAY 26: Climb on heading 258° to 1635, then direct WIVLA, then on track 260° to HIRVU, then on track 349° to cross ZIDOG at or above 5000 and at or below 230K, then on track 344° to FANON, then on track 333° to ZEPER, thence . . . .

. . . . on RRSTA transition. Maintain 8000, expect higher altitude 3 minutes after departure.

RRSTA TRANSITION (ZEPER2.RRSTA)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

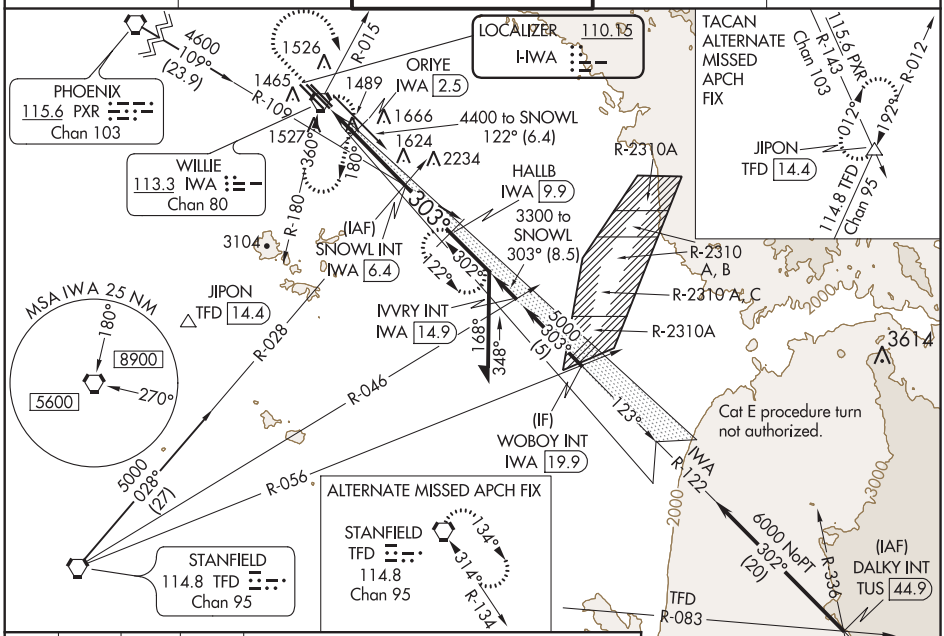
LOC I-IWA	APP CRS	Rwy ldg	10201
110.15	303°	TDZE	1380
		Apt Elev	1382

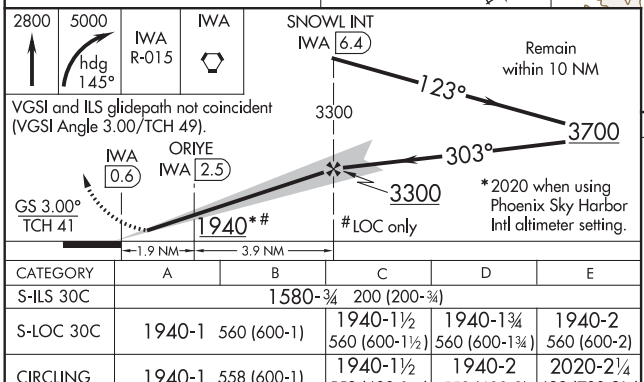
ILS or LOC RWY 30C
PHOENIX-MESA GATEWAY (IWA)

When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA/MDA 80 feet, increase S-ILS 30C, S-LOC 30C all Cats visibility ¼ mile, Circling Cats A/B/C visibility ¼ mile, Cat E ½ mile.

MISSED APPROACH: Climb to 2800 then climbing right turn to 5000 via heading 145° and IWA VORTAC R-015 to IWA VORTAC and hold, continue climb-in-hold to 5000 (TACAN aircraft continue via IWA VORTAC R-122 to HALLB/9.9 DME and hold, continue climb-in-hold to 5000, hold SE, LT, 302° inbound).

ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05

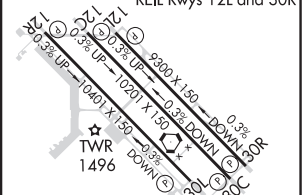




CATEGORY	A	B	C	D	E
S-ILS 30C	1580-¾ 200 (200-¾)				
S-LOC 30C	1940-1 560 (600-1)		1940-1½ 560 (600-1½)	1940-1¾ 560 (600-1¾)	1940-2 560 (600-2)
CIRCLING	1940-1 558 (600-1)		1940-1½ 558 (600-1½)	1940-2 558 (600-2)	2020-2¼ 638 (700-2¼)
ORIYE FIX MINIMUMS					
S-LOC 30C	1800-1 420 (500-1)		1800-1¼ 420 (500-1¼)		1800-1½ 420 (500-1½)
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)	1940-2 558 (600-2)	2020-2¼ 638 (700-2¼)

ELEV 1382 | D | TDZE 1380

MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R



303° 5.8 NM
from FAF

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

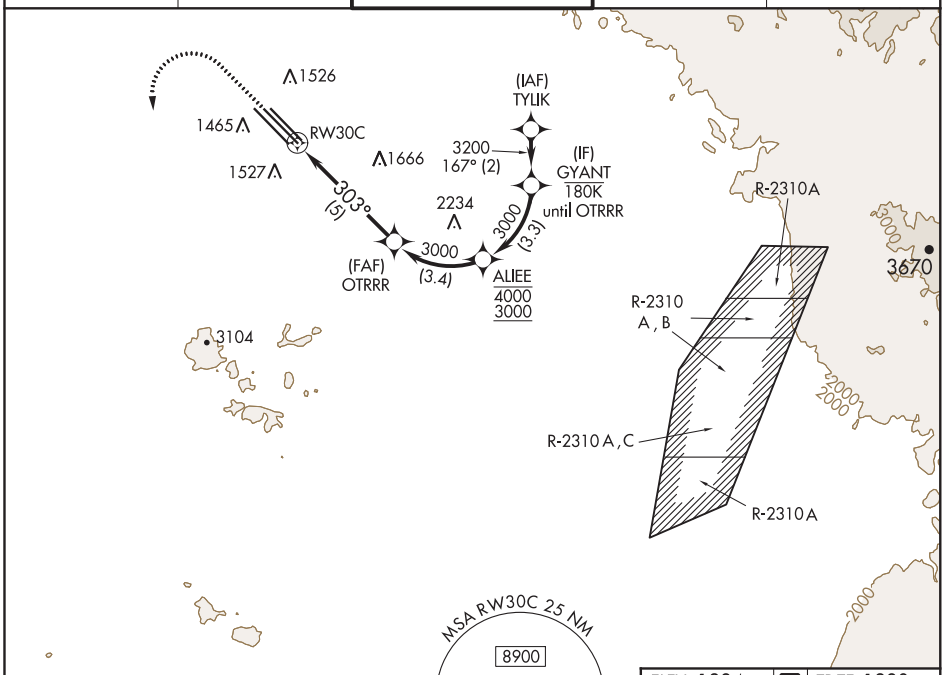
APP CRS	Rwy ldg	10201
303°	TDZE	1380
	Apt Elev	1384

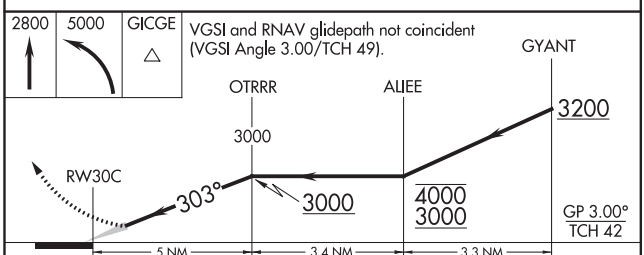
RNAV (RNP) Z RWY 30C
PHOENIX-MESA GATEWAY (IWA)

For uncompensated Baro-VNAV systems, procedure NA below -17°C (2°F) or above 54°C (130°F). GPS and RF required.

MISSED APPROACH: Climb to 2800 then climbing left turn to 5000 direct GICGE and hold.

ATIS★	PHOENIX APP CON	GATEWAY TOWER★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05

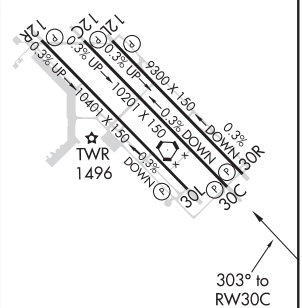




CATEGORY	A	B	C	D
RNP 0.21 DA	1637- ⅞ 257 (300-⅞)			
RNP 0.30 DA	1711-1⅛ 331 (400-1⅛)			

AUTHORIZATION REQUIRED

ELEV 1384 D TDZE 1380



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

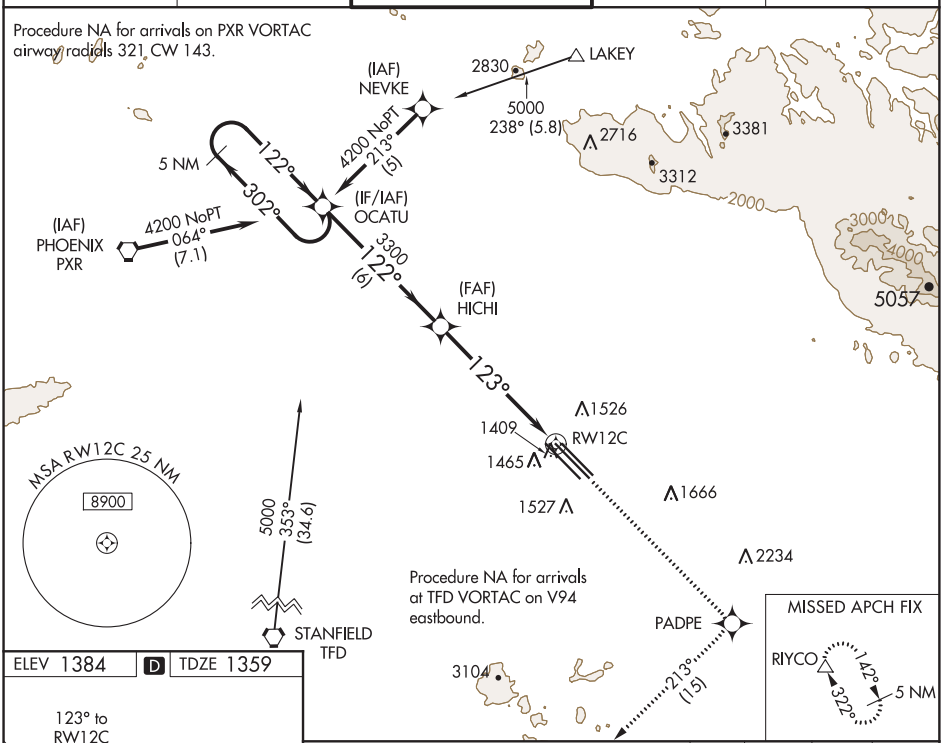
WAAS CH 58200 W12A	APP CRS 123°	Rwy ldg 10201 TDZE 1359 Apt Elev 1384

RNAV (GPS) RWY 12C
PHOENIX-MESA GATEWAY (IWA)

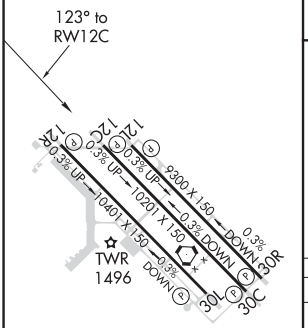
DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems LNAV/VNAV NA below -17°C (2°F) or above 46°C (115°F).

MISSED APPROACH: Climb to 5000 direct PADPE and on 213° track to RIYCO and hold.

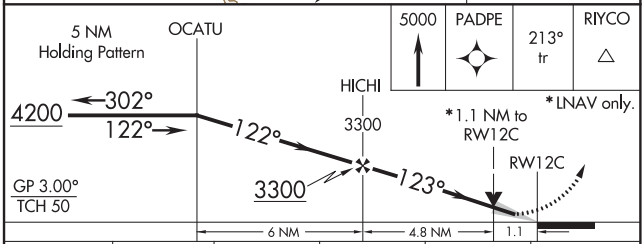
ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05



ELEV 1384 | D | TDZE 1359



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R



CATEGORY	A	B	C	D	E
LPV DA	1609-1 250 (300-1)				
LNAV/VNAV DA	1686-1¼ 327 (400-1¼)				
LNAV MDA	1740-1 381 (400-1)			1740-1¼ 381 (400-1¼)	
CIRCLING	1840-1¼ 456 (500-1¼)	1840-1½ 456 (500-1½)	1940-2 558 (600-2)	2020-2¼ 636 (700-2¼)	

SW-4, 05 NOV 2020 to 31 DEC 2020

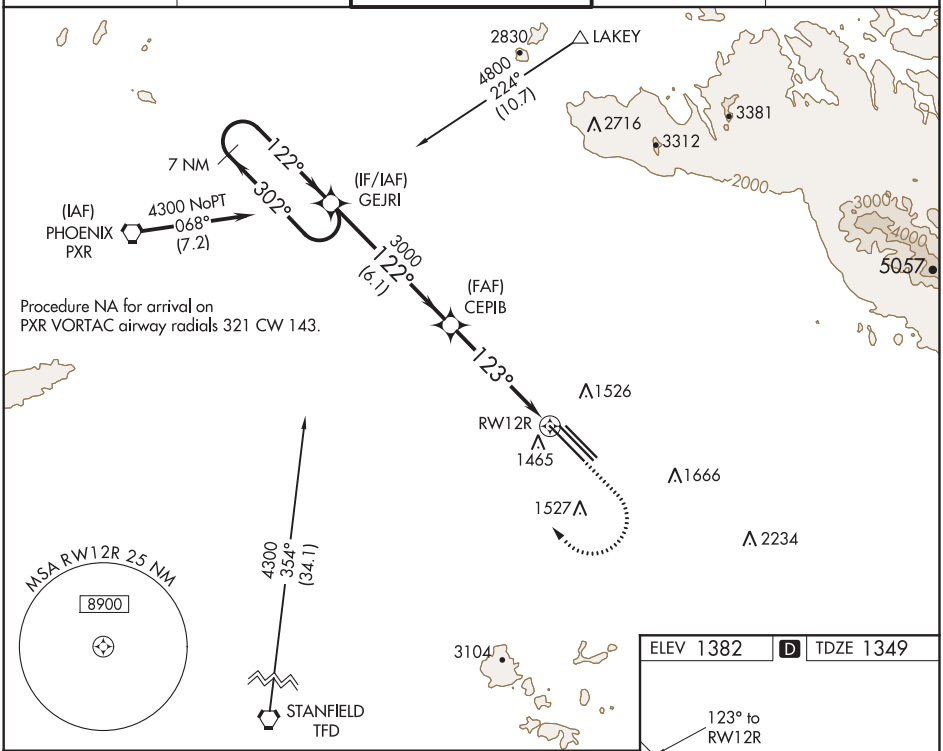
WAAS CH 50325 W12B	APP CRS 123°	Rwy ldg 10401 TDZE 1349 Apt Elev 1382

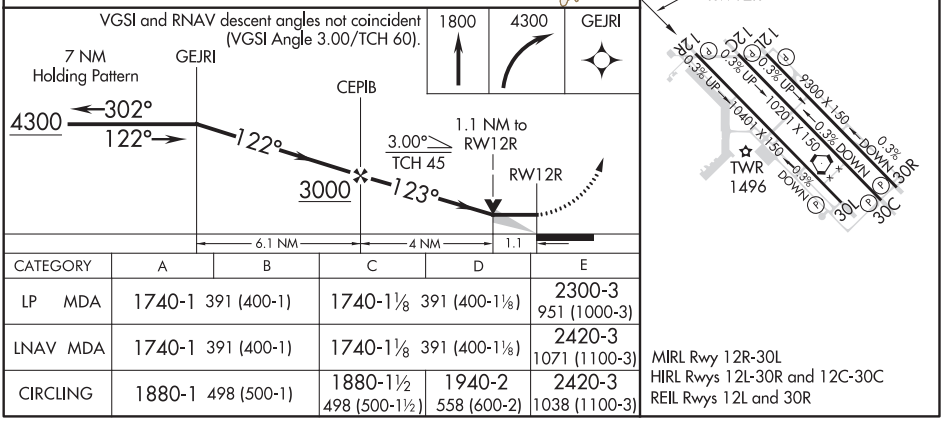
RNAV (GPS) RWY 12R
PHOENIX-MESA GATEWAY (IWA)

T A DME/DME RNP-0.3 NA. VDP NA with Phoenix Sky Harbor Intl altimeter setting. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet; increase LP and LNAV Cat C and D visibility ¼ mile.

MISSED APPROACH: Climb to 1800 then climbing right turn to 4300 direct GEJRI and hold, continue climb-in-hold to 4300.

ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05





CATEGORY	A	B	C	D	E
LP MDA	1740-1 391 (400-1)		1740-1⅛ 391 (400-1⅛)		2300-3 951 (1000-3)
LNAV MDA	1740-1 391 (400-1)		1740-1⅛ 391 (400-1⅛)		2420-3 1071 (1100-3)
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)	1940-2 558 (600-2)	2420-3 1038 (1100-3)

MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

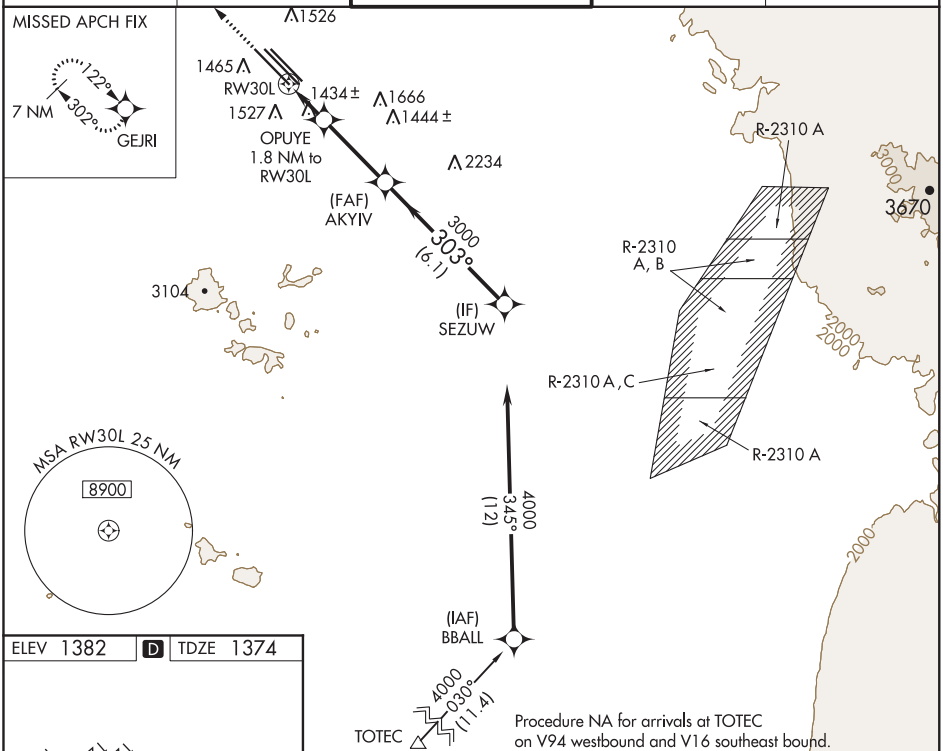
WAAS CH 93525 W30B	APP CRS 303°	Rwy ldg 10401 TDZE 1374 Apt Elev 1382

RNAV (GPS) RWY 30L
PHOENIX-MESA GATEWAY (IWA)

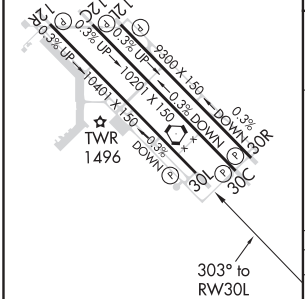
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet; increase LP and LNAV Cat C, D and E visibility ⅛ mile and Circling Cat E visibility ¼ mile. VDP NA with Phoenix Sky Harbor Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct GEJRI and hold.

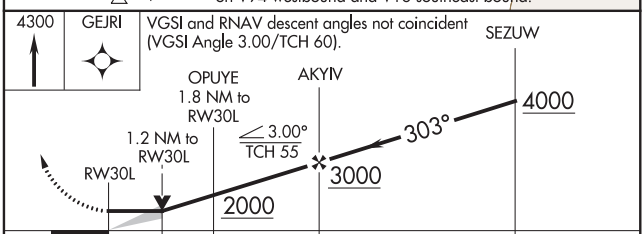
ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05



ELEV 1382 | D | TDZE 1374



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R



CATEGORY	A	B	C	D	E
LP MDA	1800-1 426 (500-1)		1800-1¼ 426 (500-1¼)		
LNAV MDA	1800-1 426 (500-1)		1800-1¼ 426 (500-1¼)		
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)	1940-2 558 (600-2)	2040-2¼ 658 (700-2¼)

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 30R
PHOENIX-MESA GATEWAY (IWA)

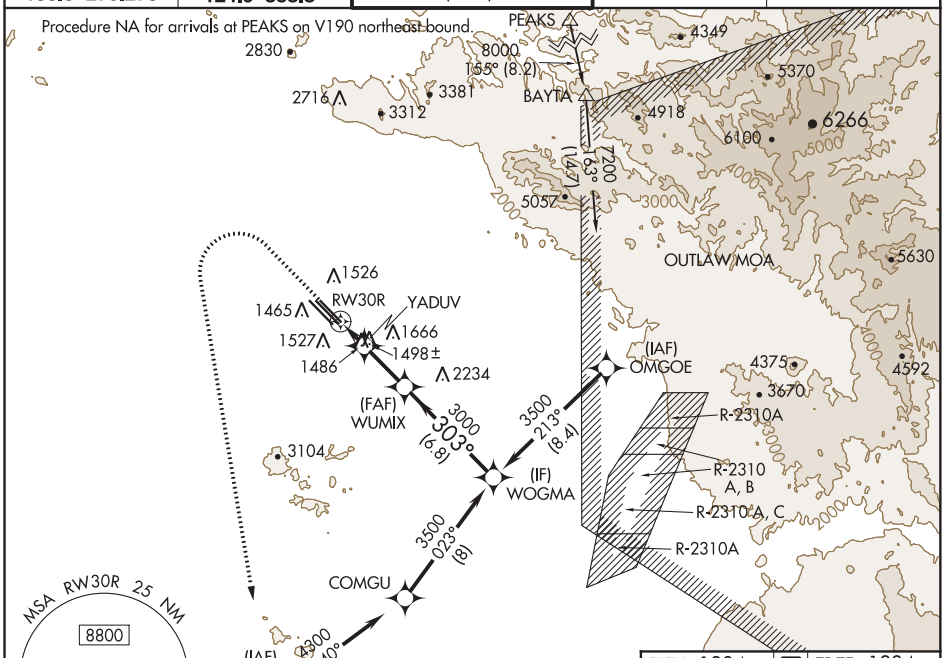
WAAS CH 69343 W30D	APP CRS 303°	Rwy ldg 9300 TDZE 1384 Apt Elev 1384

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

MISSED APPROACH: Climb to 2800 then climbing left turn to 5000 direct to GICGE and hold.

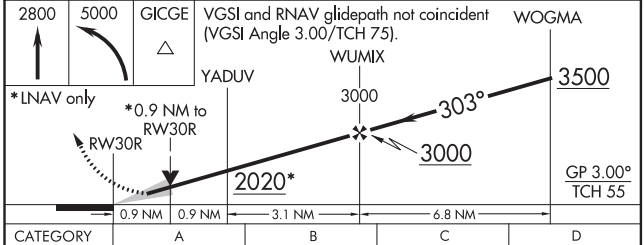
ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05



2800	5000	GICGE

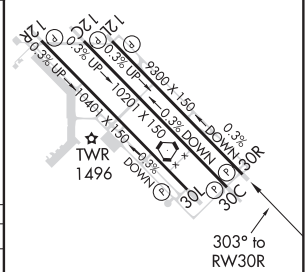
*LNAV only

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).



CATEGORY	A	B	C	D
LPV DA	1584-¾ 200 (200-¾)			
LNAV/VNAV DA	1634-¾ 250 (300-¾)			
LNAV MDA	1740-1 356 (400-1)			
C CIRCLING	1840-1 456 (500-1)		1880-1½ 496 (500-1½)	2000-2 616 (700-2)

ELEV 1384 D TDZE 1384



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

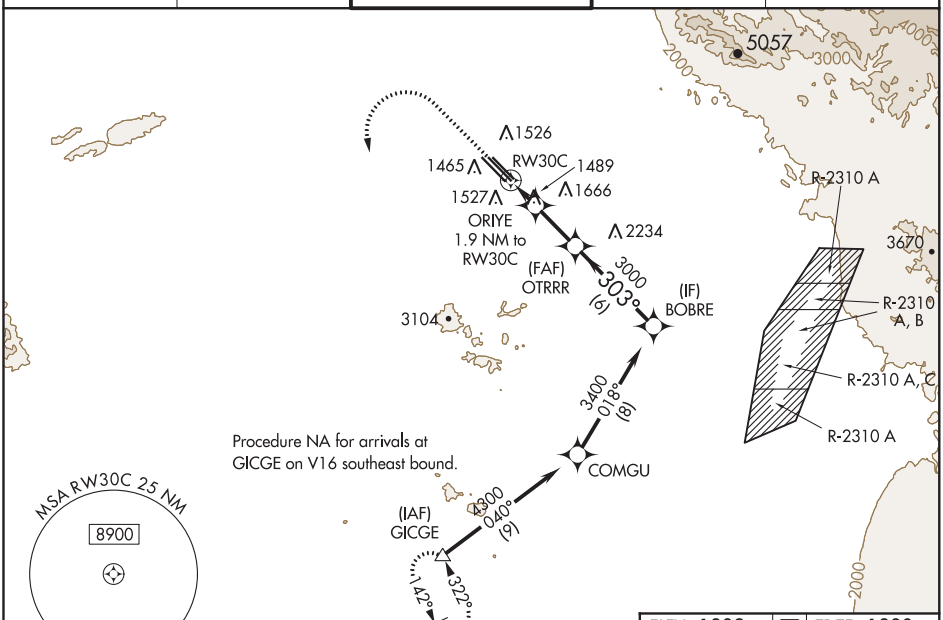
WAAS CH 62911 W30A	APP CRS 303°	Rwy ldg 10201 TDZE 1380 Apt Elev 1382

RNAV (GPS) Y RWY 30C
PHOENIX-MESA GATEWAY (IWA)

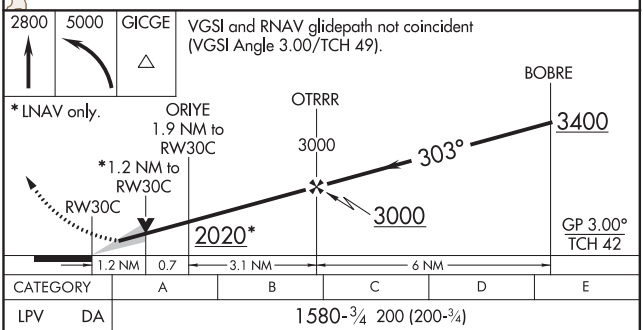
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 35°C (95°F). DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA and MDA 80 feet, increase LPV all Cats visibility ⅛ mile and LNAV/VNAV all Cats, LNAV Cats C, D, and E, and Circling Cat E ¼ mile. VDP and Baro-VNAV NA with Phoenix Sky Harbor Intl altimeter setting.

MISSED APPROACH: Climb to 2800 then climbing left turn to 5000 direct GICGE and hold.

ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05

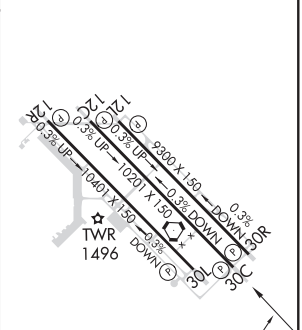


SW-4, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D	E
LPV DA	1580-¾ 200 (200-¾)				
LNAV/VNAV DA	1630-⅞ 250 (300-⅞)				
LNAV MDA	1800-1 420 (500-1)		1800-1⅛ 420 (500-1⅛)		
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)	1940-2 558 (600-2)	2040-2¼ 658 (700-2¼)

ELEV 1382 D TDZE 1380



MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

SW-4, 05 NOV 2020 to 31 DEC 2020

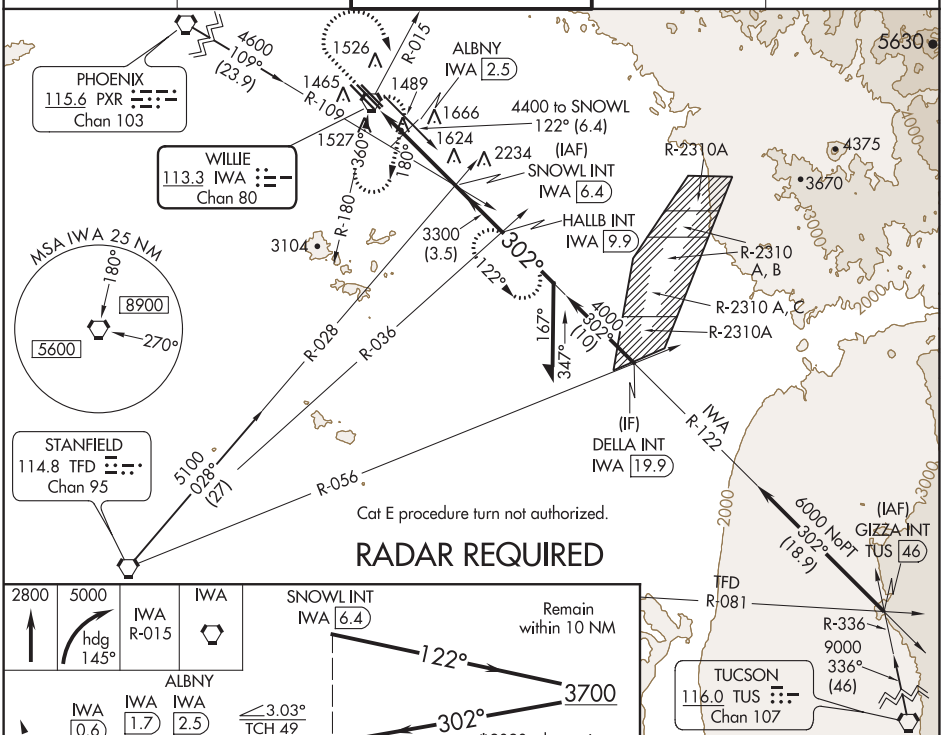
VORTAC IWA 113.3 Chan 80	APP CRS 302°		30C	30R
		Rwy ldg	10201	9301
		TDZE	1380	1382
		Apt Elev	1382	1382

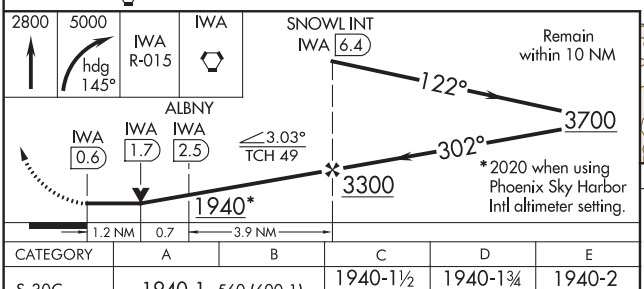
VOR or TACAN RWY 30C
PHOENIX-MESA GATEWAY (IWA)

When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet, increase S-30C, SIDESTEP 30R all Cats visibility ¼ mile, circling Cats A/B/C visibility ¼ mile, Cat E ½ mile.

MISSED APPROACH: Climb to 2800 then climbing right turn to 5000 via heading 145° and IWA VORTAC R-015 to IWA VORTAC and hold, continue climb-in-hold to 5000 (TACAN aircraft continue via IWA VORTAC R-122 to HALLB INT/IWA 9.9 DME and hold, continue climb-in-hold to 5000, hold SE, LT, 302° inbound).

ATIS ★	PHOENIX APP CON	GATEWAY TOWER ★	GND CON	CLNC DEL
133.5 270.275	124.9 353.8	120.6 (CTAF) 289.4	128.25 275.8	135.05



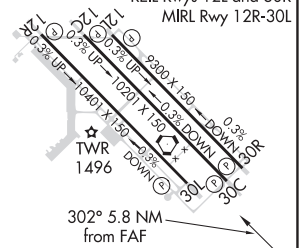


*2020 when using Phoenix Sky Harbor Intl altimeter setting.

CATEGORY	A	B	C	D	E
S-30C	1940-1 560 (600-1)		1940-1½ 560 (600-1½)	1940-1¾ 560 (600-1¾)	1940-2 560 (600-2)
SIDESTEP 30R	1940-1 558 (600-1)		1940-1½ 558 (600-1½)	1940-2 558 (600-2)	
CIRCLING	1940-1 558 (600-1)		1940-1½ 558 (600-1½)	1940-2 558 (600-2)	2020-2¼ 638 (700-2¼)
DME MINIMUMS					
S-30C	1800-1 420 (500-1)		1800-1¼ 420 (500-1¼)		1800-1½ 420 (500-1½)
SIDESTEP 30R	1800-1 418 (500-1)		1800-1½ 418 (500-1½)	1800-2 418 (500-2)	
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)	1940-2 558 (600-2)	2020-2¼ 638 (700-2¼)

ELEV 1382 | D | TDZE 30C 1380 TDZE 30R 1382

HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R
MIRL Rwy 12R-30L



FAF to MAP 5.8 NM

Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

SW-4, 05 NOV 2020 to 31 DEC 2020

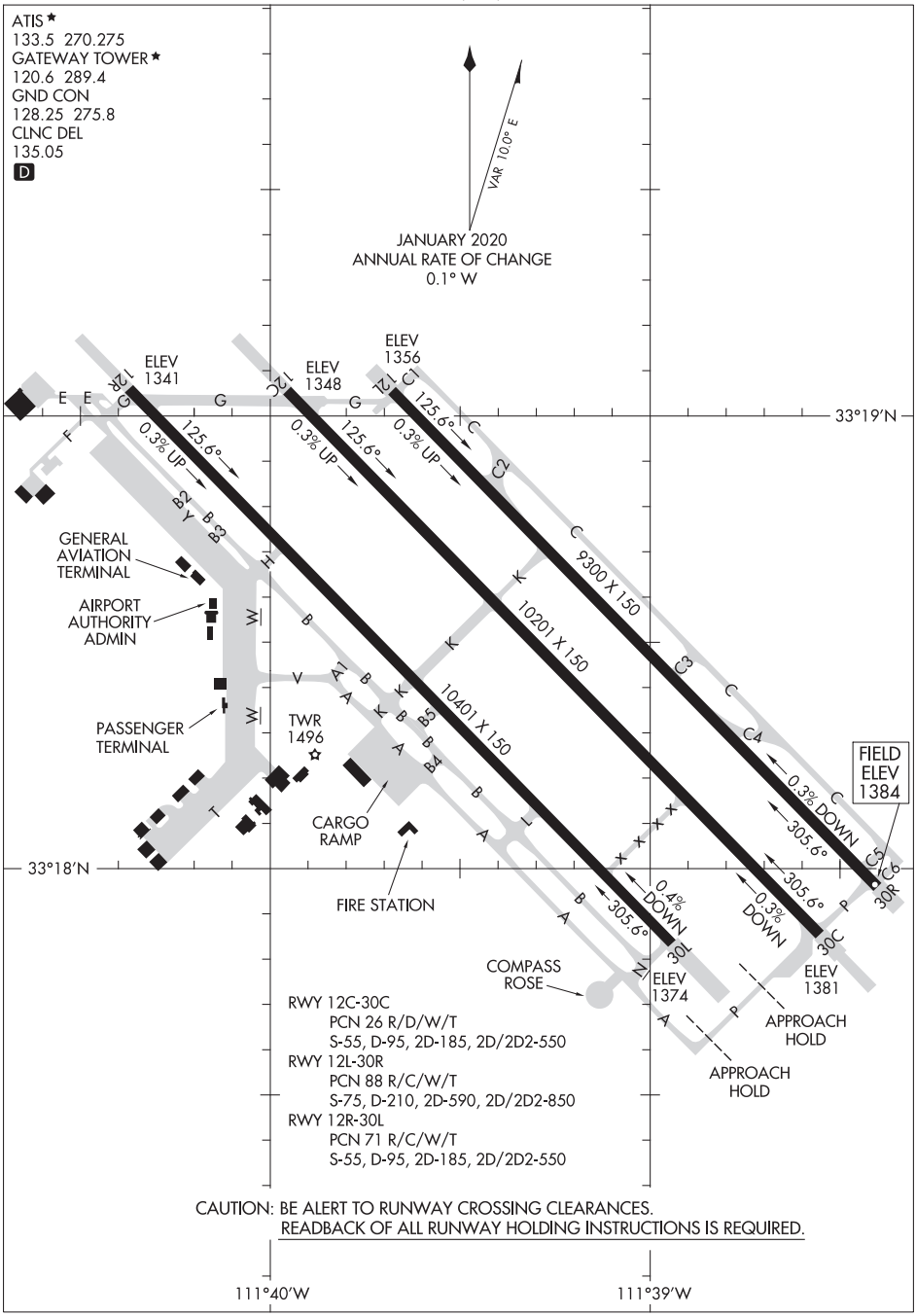
SW-4, 05 NOV 2020 to 31 DEC 2020

20198

AIRPORT DIAGRAM

AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

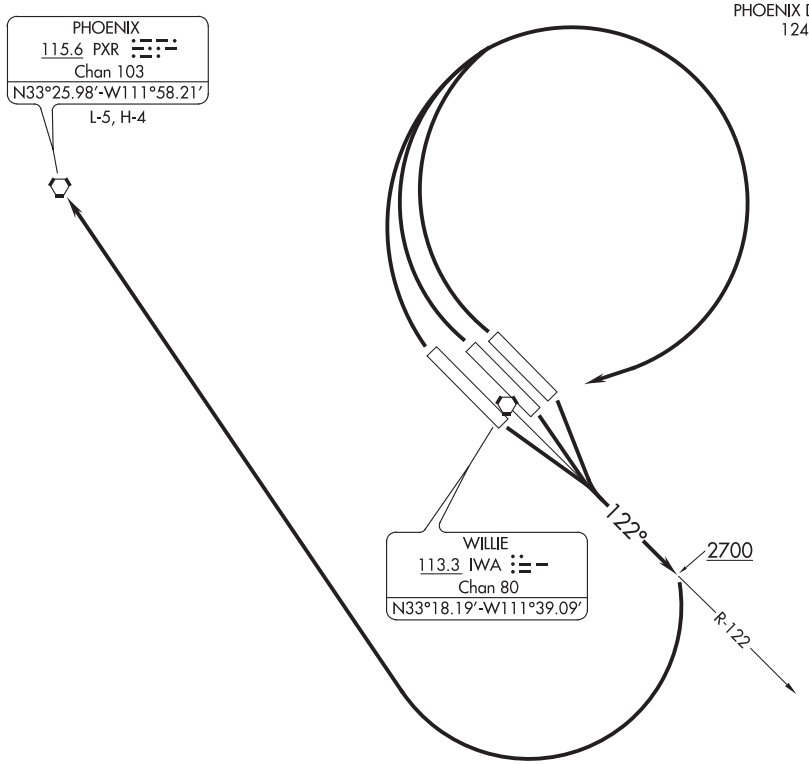
AIRPORT DIAGRAM
20198
PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

PHOENIX ONE DEPARTURE (OBSTACLE)

AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 (CTAF) 289.4
PHOENIX DEP CON
124.9 353.8



TAKEOFF MINIMUMS

Rwys 12L, 12C, 12R, 30L, 30C, 30R: Standard.

TAKEOFF OBSTACLE NOTES

Rwys 30L/C/R: Trees beginning 351′ from DER, 351′ left of centerline, up to 20′ AGL/1359′ MSL.
Trees beginning 689′ from DER, 398′ right of centerline, up to 20′ AGL/1359′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb to 2700 via IWA VORTAC R-122 then right turn direct PXR VORTAC.

TAKEOFF RUNWAYS 30L/C/R: Climbing right turn to 4000 direct IWA VORTAC and IWA VORTAC R-122 then right turn direct PXR VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(BNYRD6.BNYRD) 18144

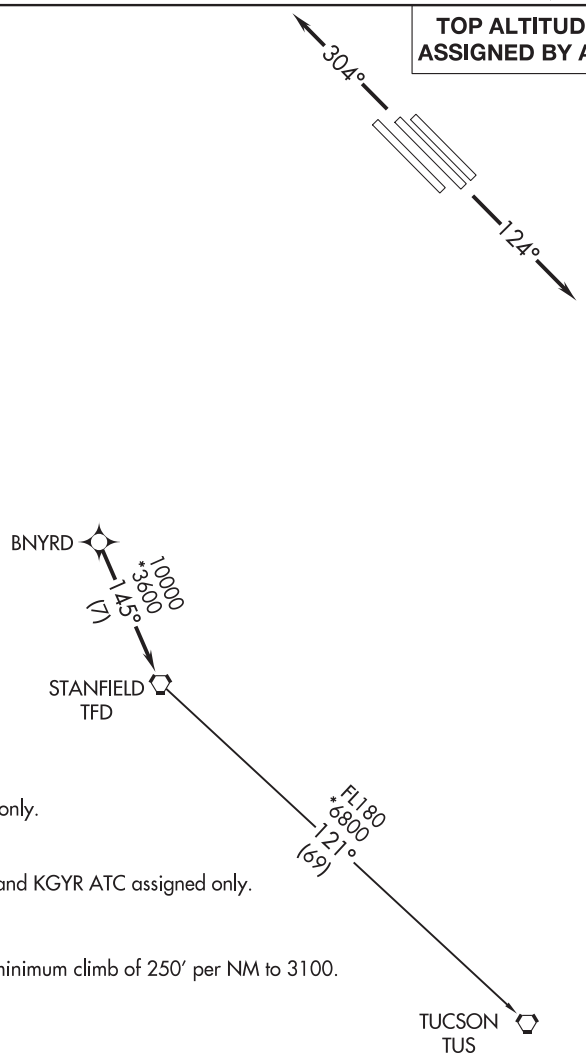
BNYRD SIX DEPARTURE (RNAV)

AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

ATIS ★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

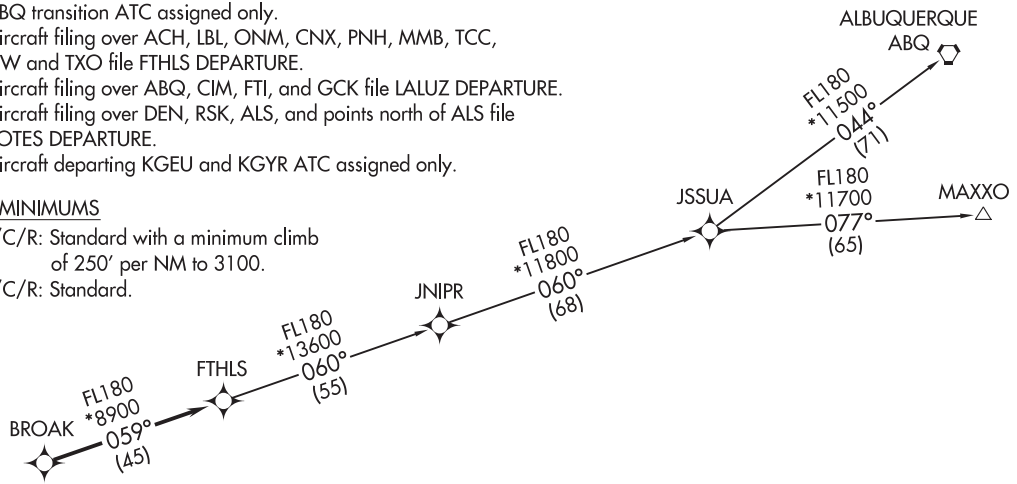
TOP ALTITUDE: ASSIGNED BY ATC

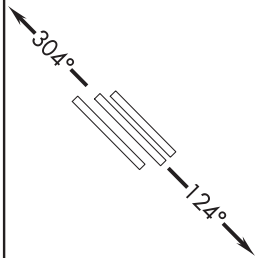
ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.





NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC. Thence. . . .
TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)

JNIPR TRANSITION (FTHLS6.JNIPR)

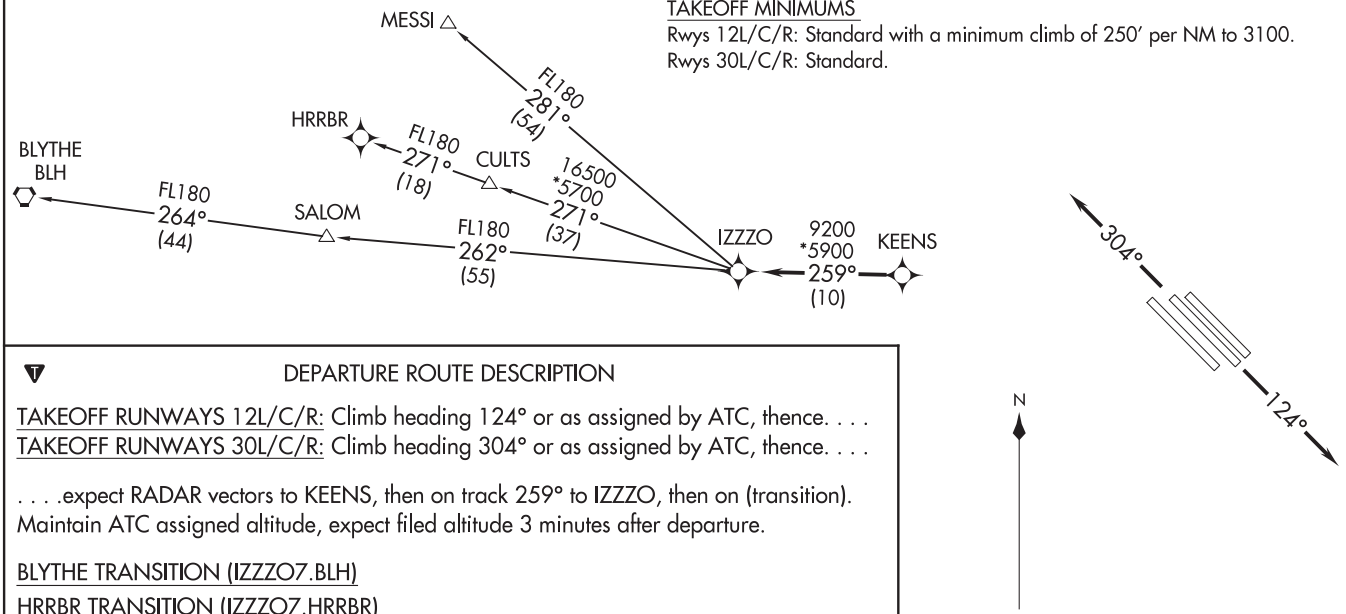
MAXXO TRANSITION (FTHLS6.MAXXO)

ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

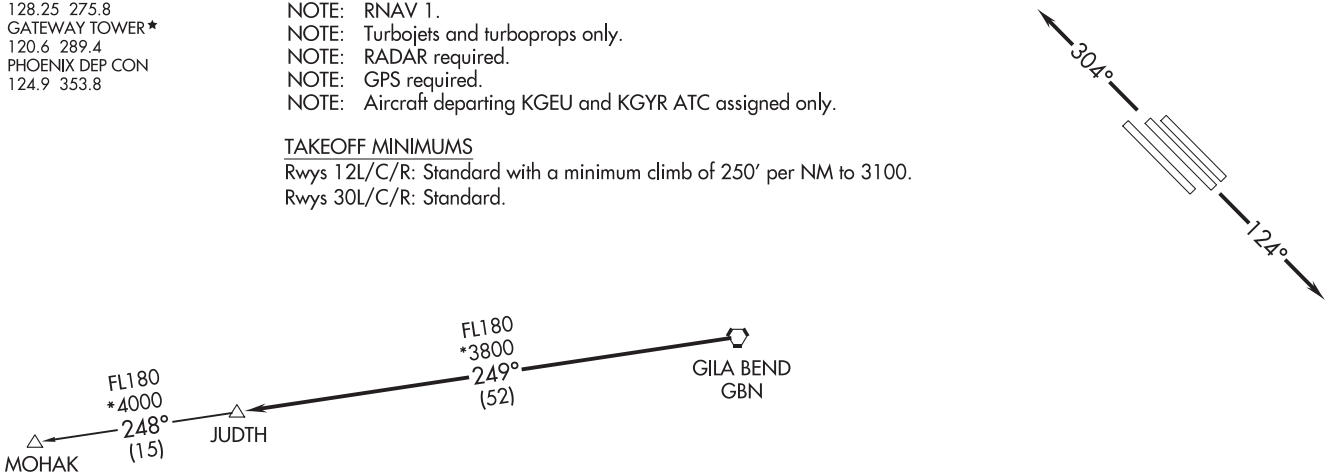
BLYTHE TRANSITION (IZZZO7.BLH)
HRRBR TRANSITION (IZZZO7.HRRBR)
MESSI TRANSITION (IZZZO7.MESSI)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER ★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

NOTE: Chart not to scale.

ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

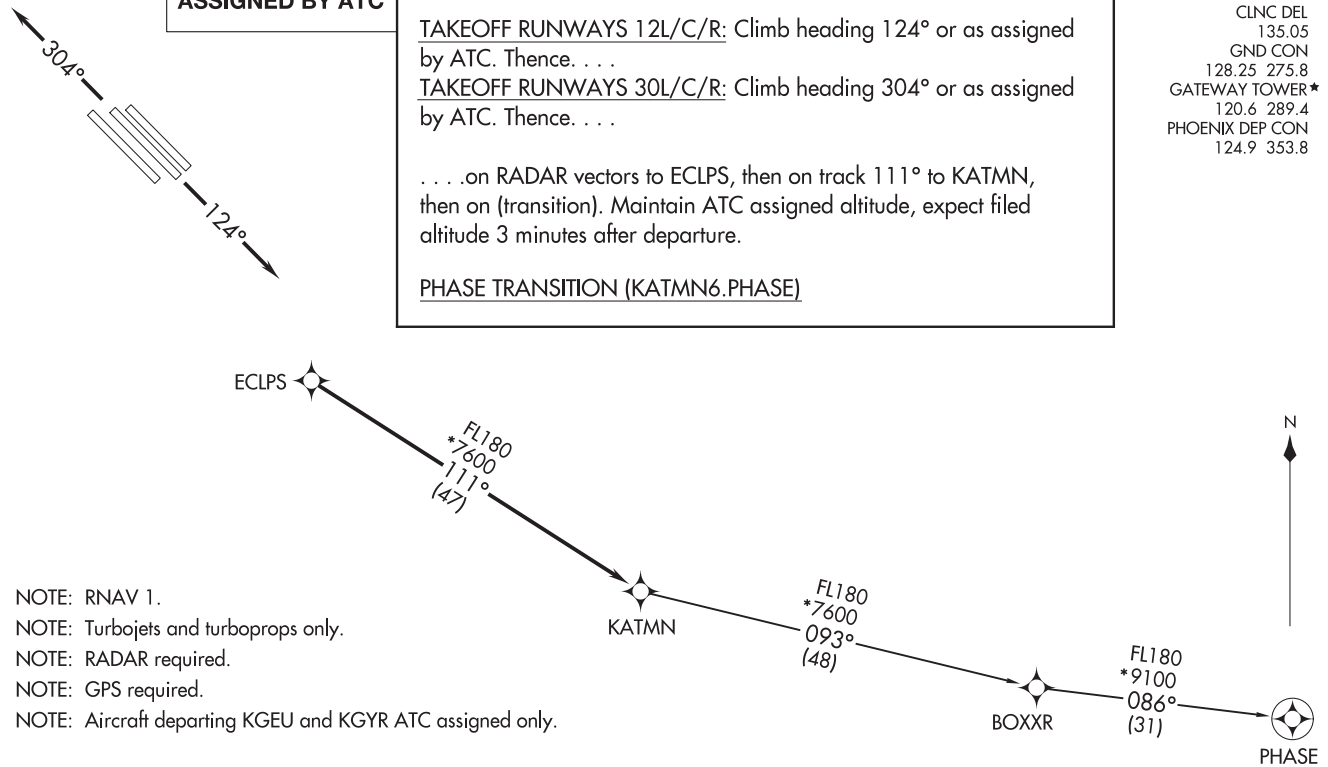
TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC. Thence. . . .
TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC. Thence. . . .

. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

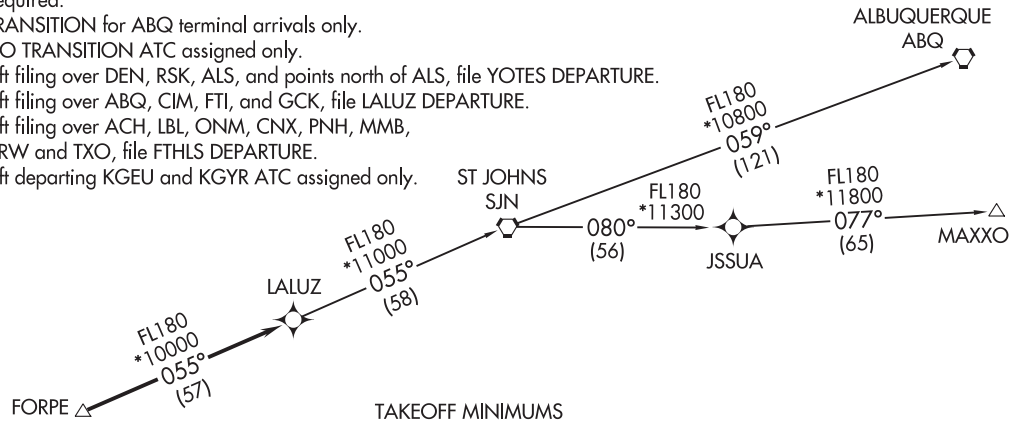
TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

NOTE: Chart not to scale.

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER ★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



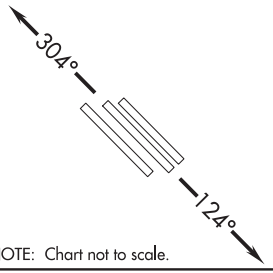
TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)
MAXXO TRANSITION (LALUZ6.MAXXO)
ST JOHNS TRANSITION (LALUZ6.SJN)



NOTE: Chart not to scale.

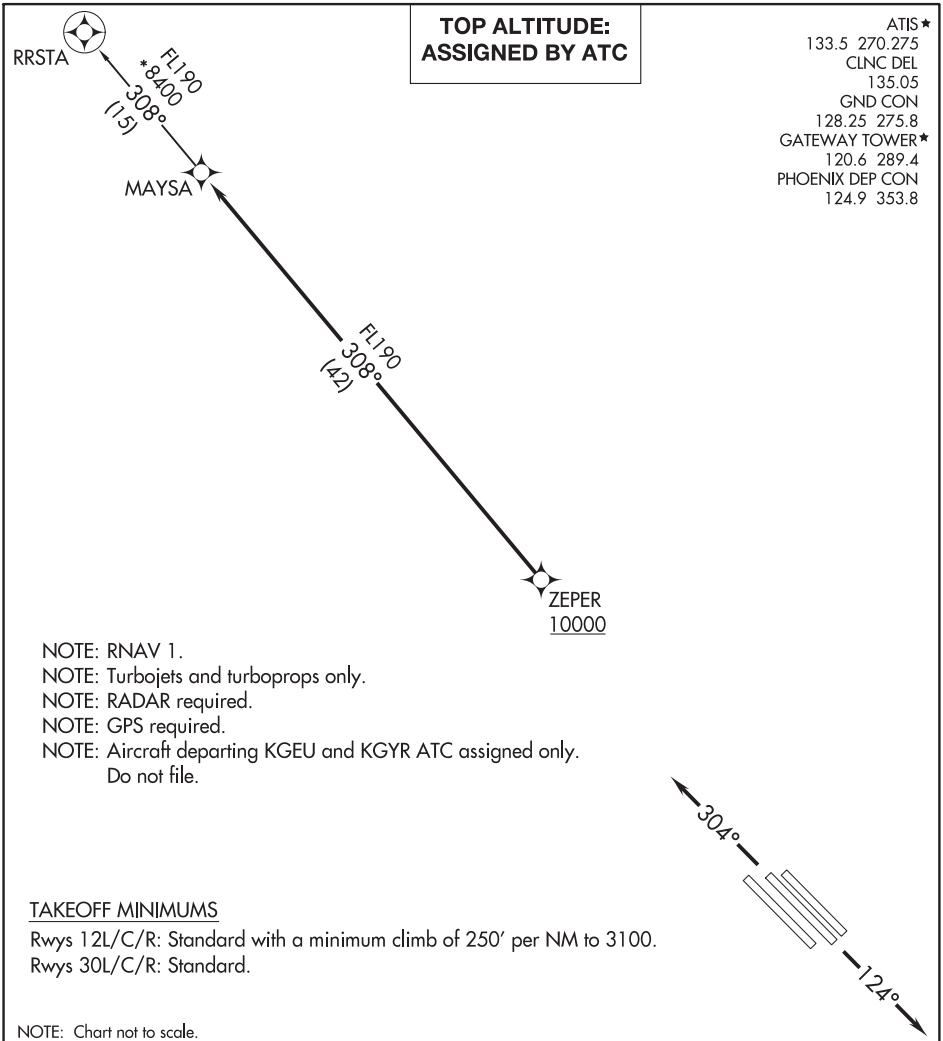
(MAYSA7.MAYSA) 20142

MAYSA SEVEN DEPARTURE (RNAV) AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only. Do not file.

TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb on heading 124° or as assigned by ATC. Thence. . . .

TAKEOFF RUNWAYS 30L/C/R: Climb on heading 304° or as assigned by ATC. Thence. . . .

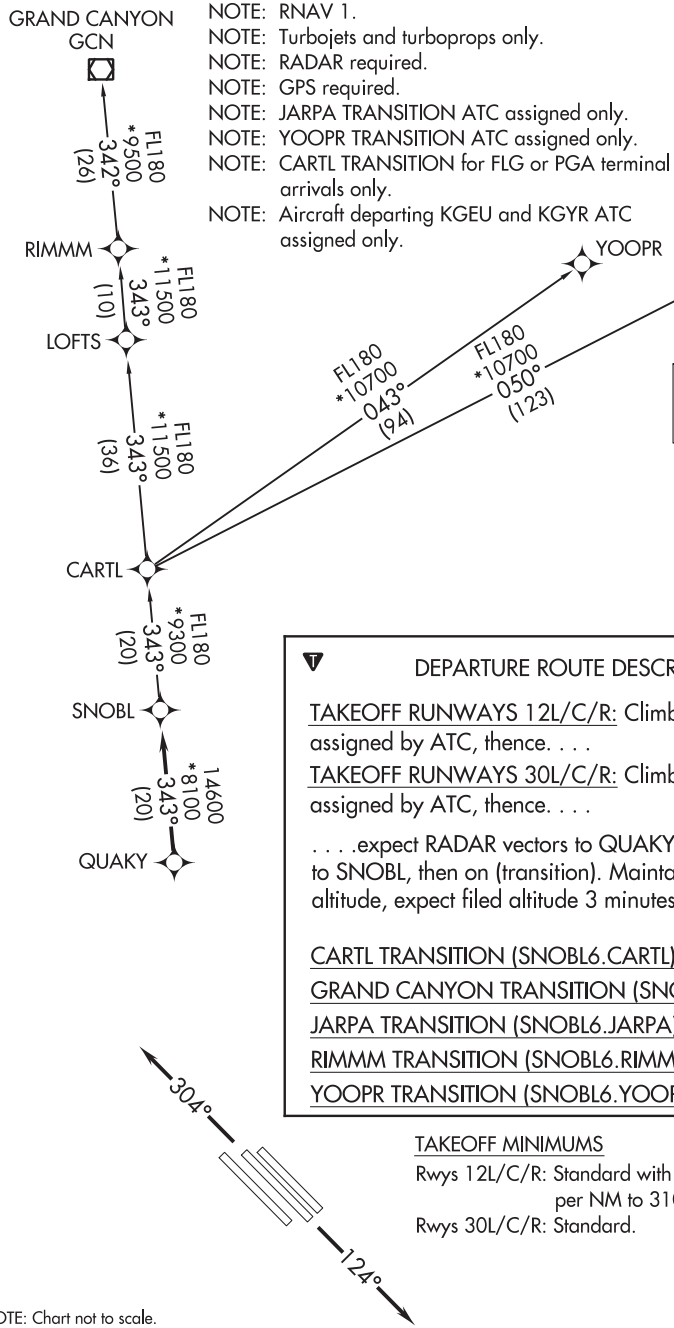
. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

SW-4, 05 NOV 2020 to 31 DEC 2020

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

ATIS★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER★
120.6 289.4
PHOENIX DEP CON
124.9 353.8



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL6.CARTL)
GRAND CANYON TRANSITION (SNOBL6.GCN)
JARPA TRANSITION (SNOBL6.JARPA)
RIMMM TRANSITION (SNOBL6.RIMMM)
YOOPR TRANSITION (SNOBL6.YOOPR)

TAKEOFF MINIMUMS
Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(YOTES6.YOTES) 18144

YOTES SIX DEPARTURE (RNAV)

AL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

ATIS ★
133.5 270.275
CLNC DEL
135.05
GND CON
128.25 275.8
GATEWAY TOWER ★
120.6 289.4
PHOENIX DEP CON
124.9 353.8

GRAND CANYON
GCN

YOOPR

JARPA

FL180
*14900
316°
(95)

FL180
*9400
016°
(70)

FL180
*9500
033°
(92)

TOP ALTITUDE: ASSIGNED BY ATC

YOTES

FL180
*10300
021°
(44)

MRBIL

304°

124°

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 12L/C/R: Standard with a minimum climb of 250′ per NM to 3100.
Rwys 30L/C/R: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L/C/R: Climb heading 124° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 30L/C/R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

LOC/DME I-PRC 108.5 Chan 22	APP CRS 208°	Rwy ldg 7619 TDZE 4977 Apt Elev 5045

ILS or LOC/DME RWY 21L

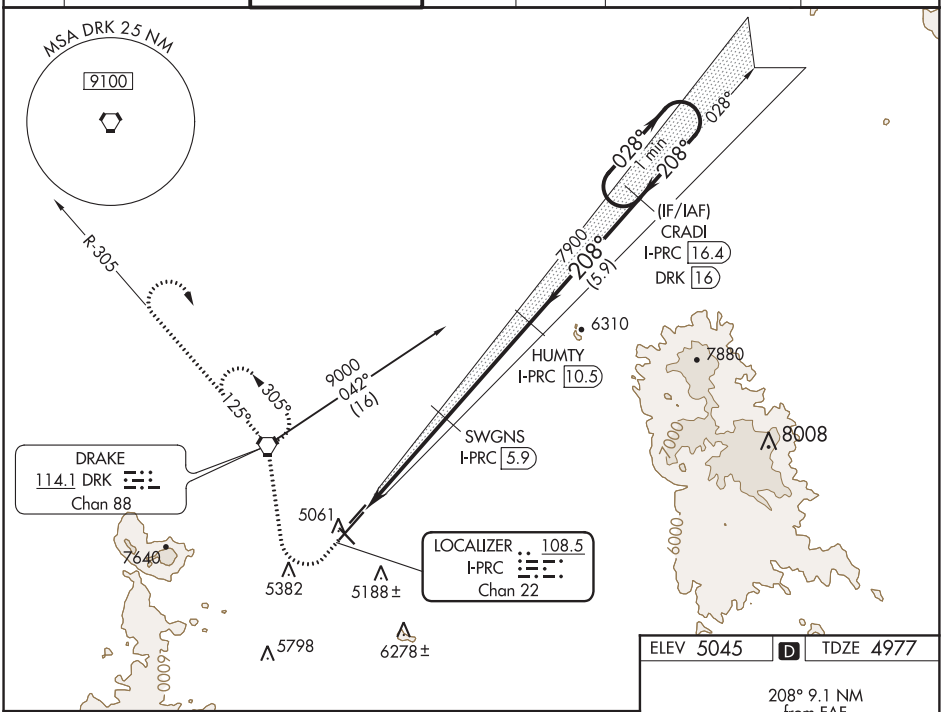
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

Circling Rwy 3L, 12, 30 NA at night.

MALSR

MISSED APPROACH: Climb to 5400 then climbing right turn direct DRK VORTAC and DRK VORTAC R-305 to 9000, then right turn direct DRK VORTAC and hold.

ATIS	PHOENIX APP CON	PRESCOTT TOWER ★	GND CON	CLNC DEL		UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95

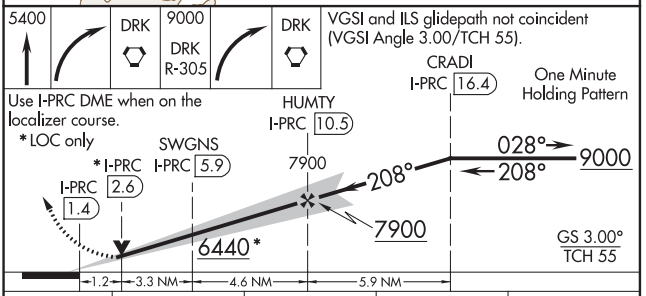


5400	DRK	9000 DRK R-305	DRK

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 55).

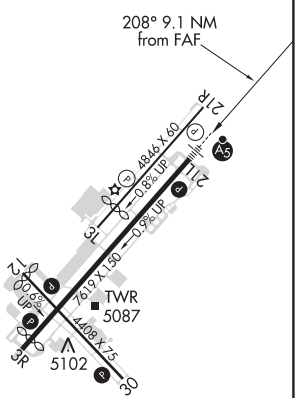
Use I-PRC DME when on the localizer course.

*LOC only



CATEGORY	A	B	C	D
S-ILS 21L	5177-½ 200 (200-½)			
S-LOC 21L	5380-½ 403 (400-½)		5380-¾ 403 (400-¾)	
C CIRCLING	5540-1 495 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)

ELEV 5045 D TDZE 4977



MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

PRESCOTT, ARIZONA | AL-546 (FAA) | 20310

APP CRS	Rwy ldg	7239
028°	TDZE	5022
	Apt Elev	5045

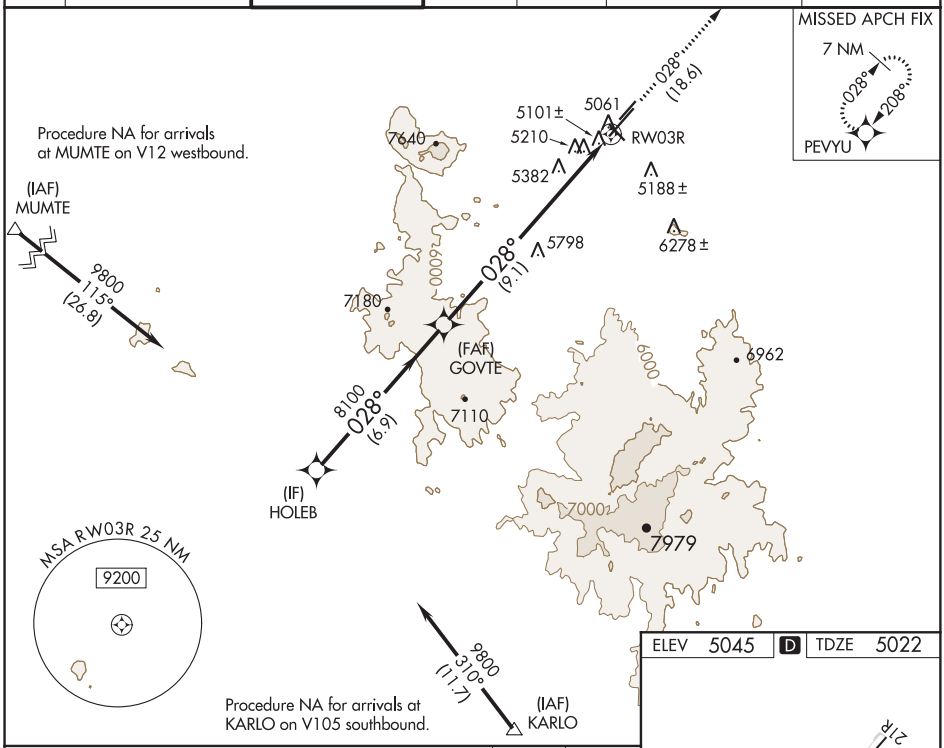
RNAV (RNP) Z RWY 3R
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

RNP AR APCH.

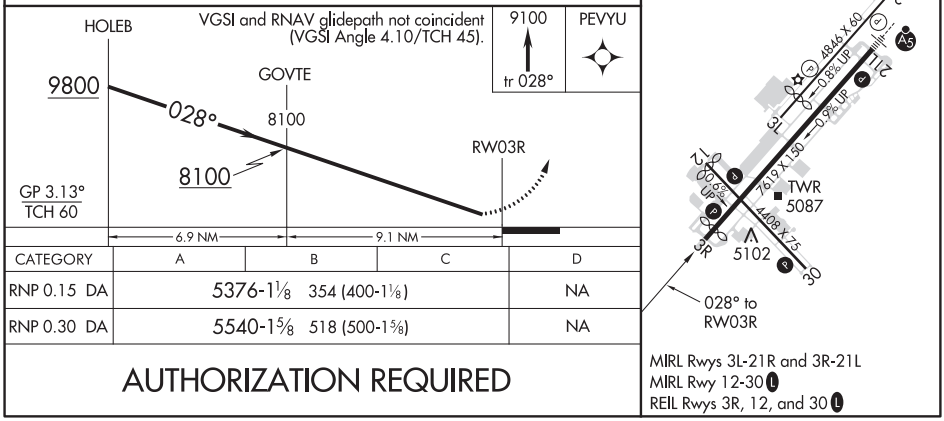
For uncompensated Baro-VNAV systems, procedure NA below -11°C or above 54°C.

MISSED APPROACH: Climb to 9100 on track 028° direct PEVYU and hold.

ATIS	PHOENIX APP CON	PRESCOTT TOWER ★	GND CON	CLNC DEL		UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95



ELEV 5045 D TDZE 5022



CATEGORY	A	B	C	D
RNP 0.15 DA	5376-1⅛ 354 (400-1⅛)			NA
RNP 0.30 DA	5540-1⅝ 518 (500-1⅝)			NA

AUTHORIZATION REQUIRED

MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 49235 W12A	APP CRS 123°	Rwy ldg 4258 TDZE 5026 Apt Elev 5045

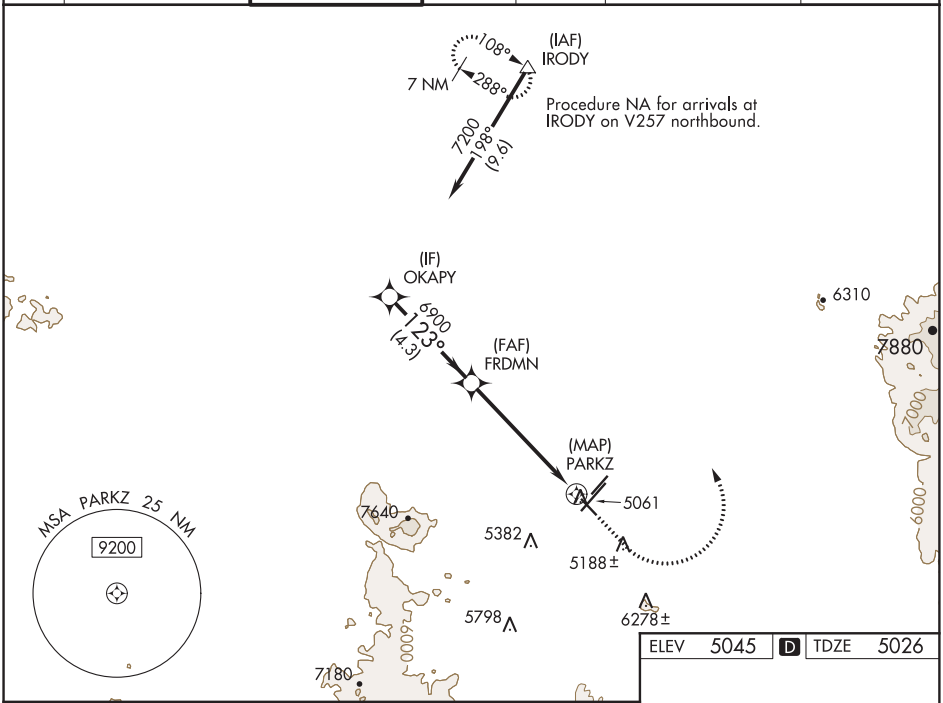
RNAV (GPS) RWY 12
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

RNP APCH.

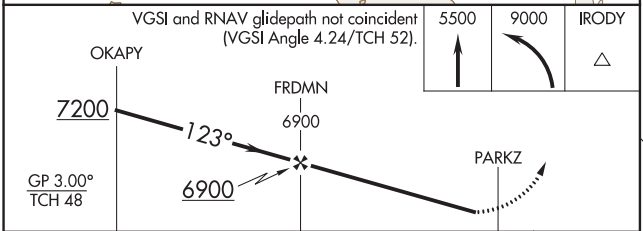
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C or above 49°C. Rwy 12 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 12 NA at night, Circling Rwy 12, 3L, 30 NA at night.

MISSED APPROACH: Climb to 5500 then climbing left turn to 9000 direct IRODY and hold, continue climb-in-hold to 9000.

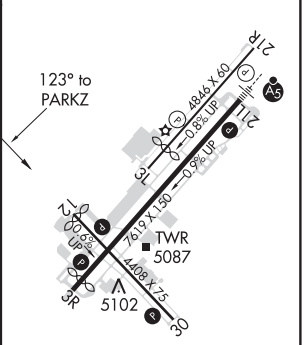
ATIS	PHOENIX APP CON	PRESCOTT TOWER ★	GND CON	CLNC DEL		UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95



VGSI and RNAV glidepath not coincident (VGSI Angle 4.24/TCH 52).



ELEV 5045 D TDZE 5026



CATEGORY	A	B	C	D
LPV DA	5276-1 250 (300-1)			
LNAV/VNAV DA	5432-1⅜ 406 (400-1⅜)			
LNAV MDA	5520-1 494 (500-1)		5520-1⅜ 494 (500-1⅜)	
C CIRCLING	5520-1 475 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)

MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 40002 W21A	APP CRS 208°	Rwy ldg 7619 TDZE 4977 Apt Elev 5045

RNAV (GPS) RWY 21L
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

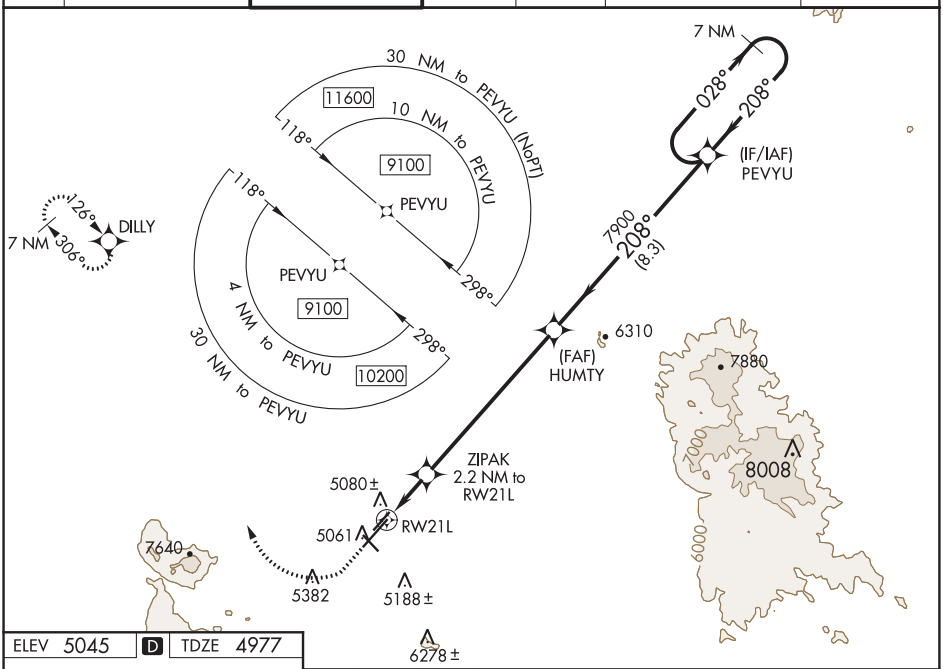
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C or above 47°C. For inoperative MALSR increase LPV visibility all Cats to 1 mile . Circling Rwy 3L, 12, 30 NA at night.
Missed approach requires a minimum climb of 345 feet per NM to 7300.

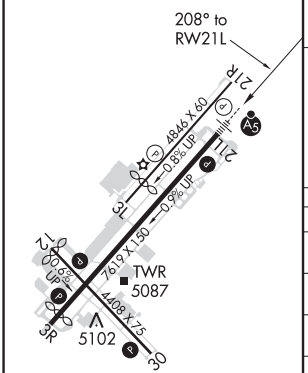
MALSR

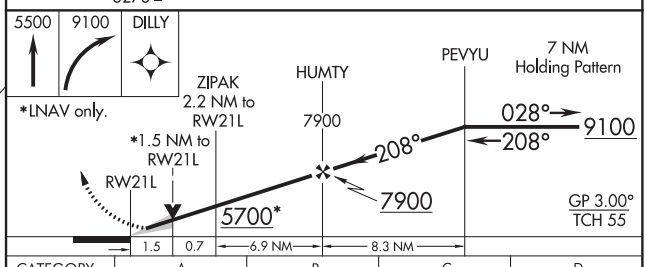
MISSED APPROACH: Climb to 5500 then climbing right turn to 9100 direct DILLY and hold, continue climb-in-hold to 9100.

ATIS	PHOENIX APP CON	PRESCOTT TOWER ★	GND CON	CLNC DEL		UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95



ELEV 5045 D TDZE 4977





CATEGORY	A	B	C	D
LPV DA	#5177-½ 200 (200-½)			
LPV DA	5277-½ 300 (300-½)			
LNAV/VNAV DA	5391-⅞ 414 (400-⅞)			
LNAV MDA	5480-½ 503 (500-½)		5480-1 503 (500-1)	
C CIRCLING	5520-1 475 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)

MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 45835 W03B	APP CRS 028°	Rwy ldg 7239 TDZE 5022 Apt Elev 5045

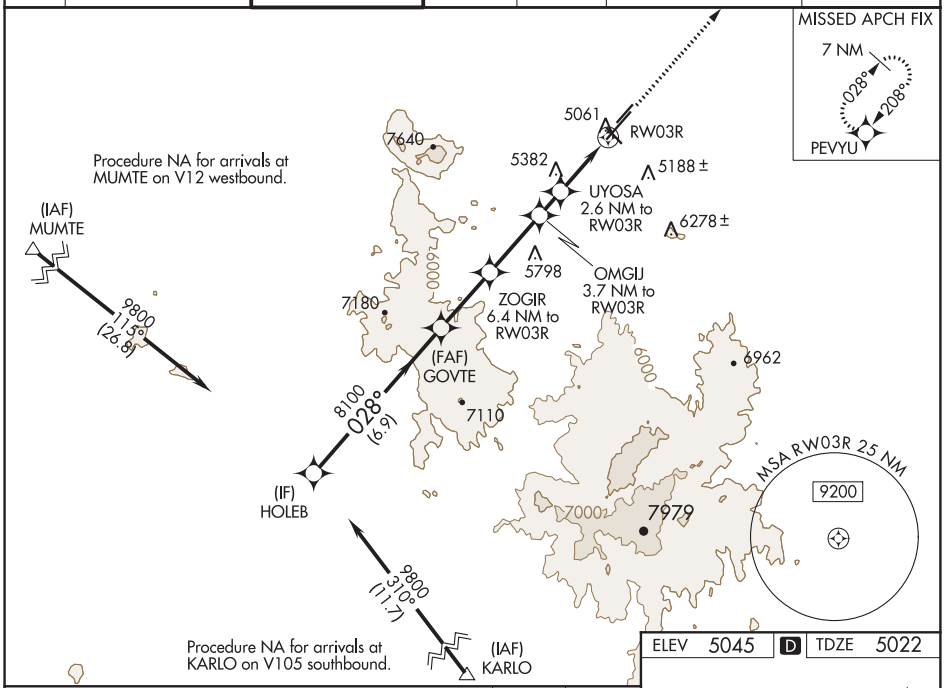
RNAV (GPS) Y RWY 3R
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

RNP APCH.

Baro-VNAV NA.
Rwy 3R helicopter visibility reduction below ¾ SM NA.
Circling Rwy 3L, 12, 30 NA at night.

MISSED APPROACH: Climb to 9100 direct PEVYU and hold.

ATIS	PHOENIX APP CON	PRESCOTT TOWER ★	GND CON	CLNC DEL		UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95



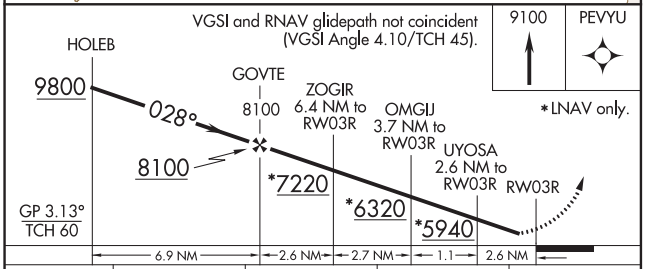
SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 5045 D TDZE 5022

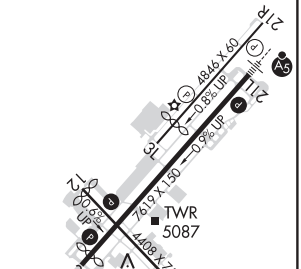
VGSI and RNAV glidepath not coincident (VGSI Angle 4.10/TCH 45).

9100 PEVYU

★LNAV only.



CATEGORY	A	B	C	D
LPV DA	5311-1 289 (300-1)			NA
LNAV/VNAV DA	5549-1⅝ 527 (600-1⅝)			NA
LNAV MDA	5640-1 618 (600-1)		5640-1¾ 618 (700-1¾)	NA
C CIRCLING	5640-1 595 (600-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)



MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

PRESCOTT, ARIZONA | AL-546 (FAA) | 20310

VOR RWY 12

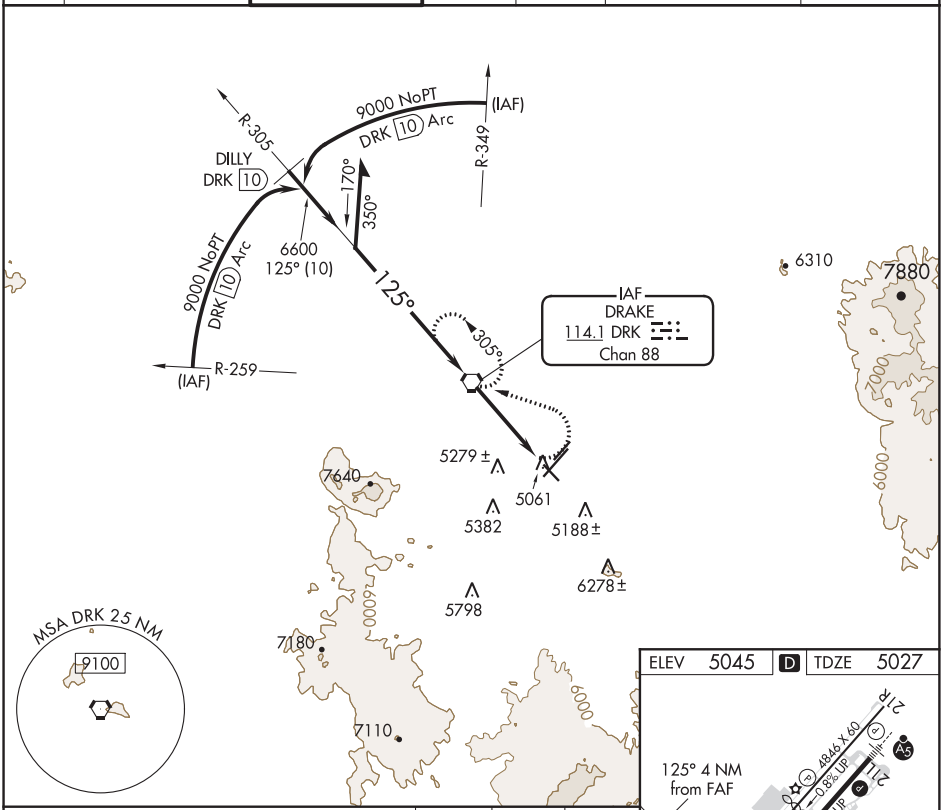
PRESCOTT RGNL - ERNEST A LOVE FIELD (PRC)

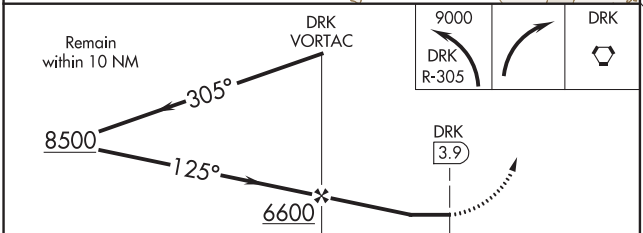
VORTAC DRK	APP CRS	Rwy ldg	4258
114.1	125°	TDZE	5027
Chan 88		Apt Elev	5045

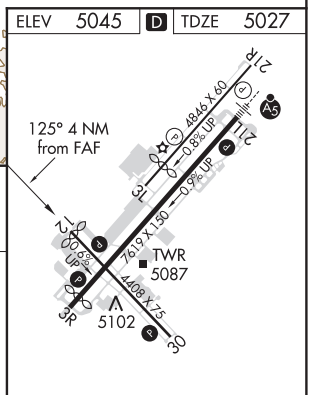
T A Straight-in Rwy 12 NA at night, Circling Rwy 3L, 12, 30 NA at night. Rwy 12 helicopter visibility reduction below 1 SM NA. Circling NA for Cat D southeast of Rwy 3R-21L.

MISSED APPROACH: Climbing left turn to 9000 via DRK VORTAC and DRK R-305, then turn right direct DRK VORTAC and hold.

ATIS	PHOENIX APP CON		PRESCOTT TOWER ★		GND CON	CLNC DEL		UNICOM
127.2	133.575	281.55	125.3 (CTAF)	257.9	121.7	119.25	128.75 L (12-30) 125.3 (CTAF) L (3R-21L)	122.95







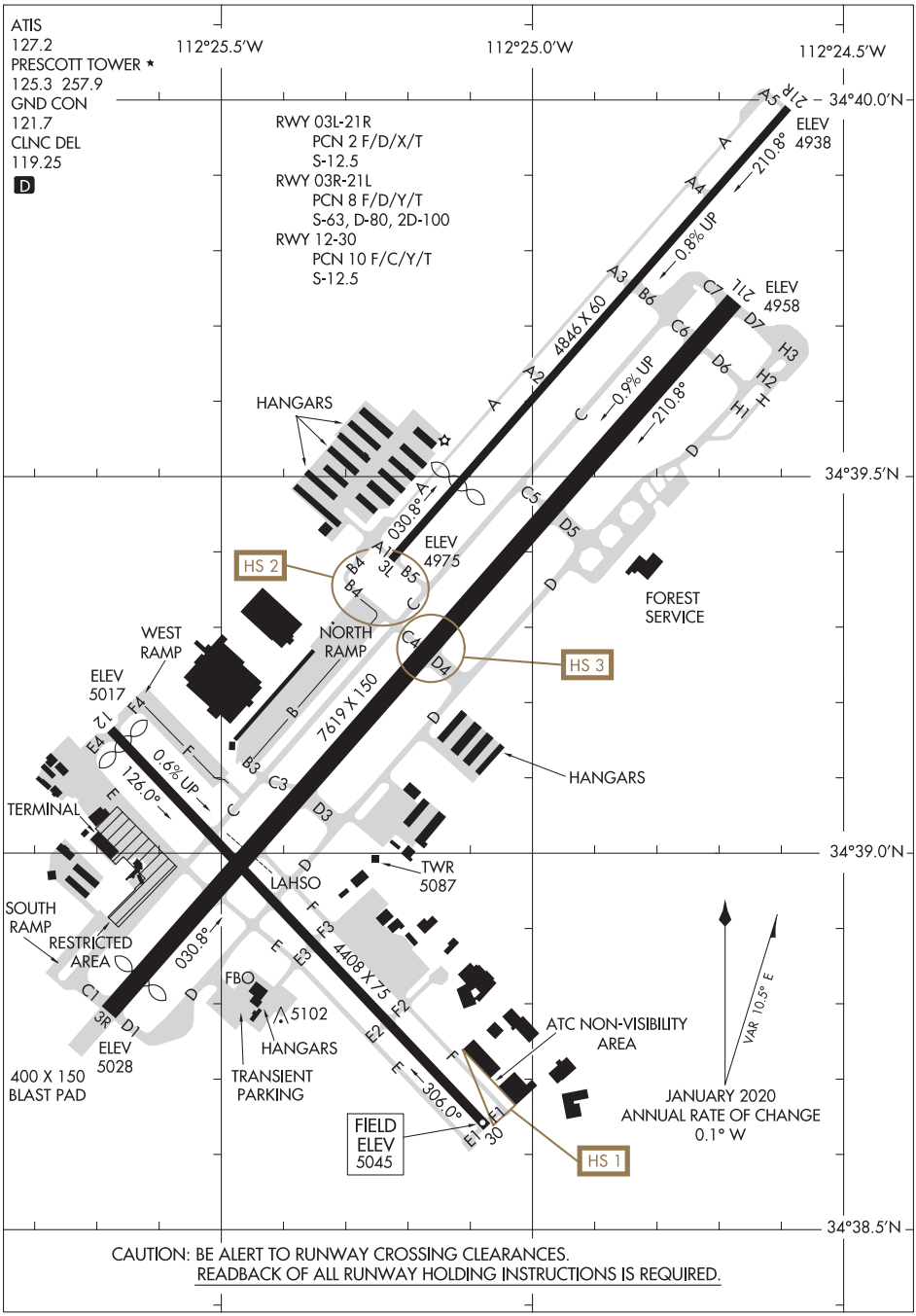
MIRL Rwys 3L-21R and 3R-21L
MIRL Rwy 12-30 L
REIL Rwys 3R, 12, and 30 L

CATEGORY	A	B	C	D
S-12	5540-1 513 (500-1)		5540-1½ 513 (500-1½)	5540-1¾ 513 (500-1¾)
C CIRCLING	5540-1 495 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	

FAF to MAP 3.9 NM					
Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

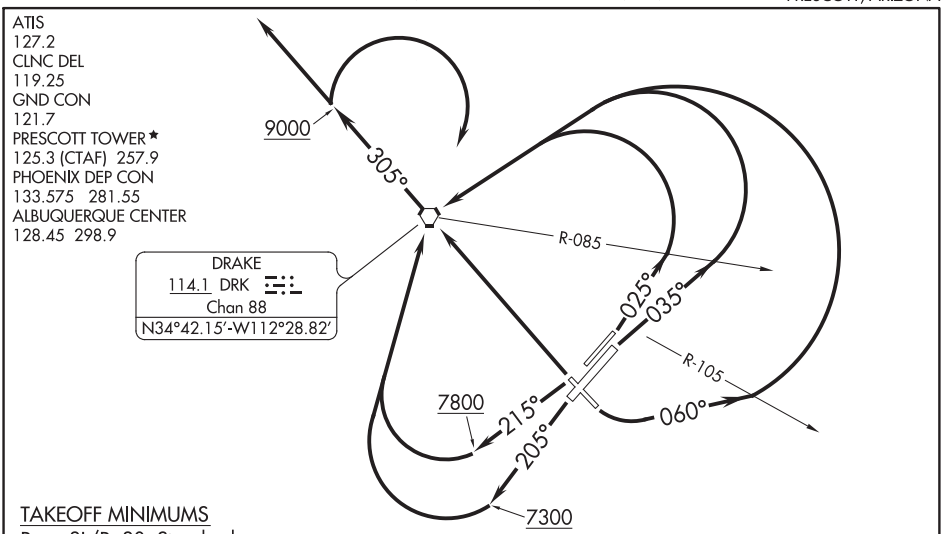
(PRC3.DRK) 19171

PRESCOTT RGNL-ERNEST A LOVE FIELD (PRC)

PRESCOTT THREE DEPARTURE (OBSTACLE)

AL-546 (FAA)

PRESCOTT, ARIZONA



TAKEOFF MINIMUMS

Rwys 3L/R, 30: Standard.

Rwy 12: Standard with a minimum climb of 260′ per NM to 5700 or 600-2¾ with a minimum climb of 245′ per NM to 5600 or 1800-3 for VCOA.

Rwy 21L: Standard with a minimum climb of 430′ per NM to 8200 or 1800-3 for VCOA.

Rwy 21R: Standard with a minimum climb of 500′ per NM to 8800 or 1800-3 for VCOA.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3L: Climb heading 025° until crossing DRK VORTAC R-085, then climbing left turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 3R: Climb heading 035° until crossing DRK VORTAC R-085, then climbing left turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 12: Climbing left turn heading 060° until crossing DRK VORTAC R-105, then climbing left turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 21L: Climb heading 205° until 7300, then climbing right turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 21R: Climb heading 215° until 7800, then climbing right turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 30: Climb direct DRK VORTAC, thence. . . .

. . . .climb on DRK VORTAC R-305 to 9000. Aircraft departing on DRK VORTAC R-305 continue climbing on course. All other aircraft climbing right turn direct DRK VORTAC then on assigned course.

VCOA RUNWAYS 12, 21L/R: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Prescott Airport at or above 6700 direct DRK VORTAC, then climb on DRK VORTAC R-305 to 9000. Aircraft departing on DRK VORTAC R-305 continue climbing on course. All other aircraft climbing right turn direct DRK VORTAC then on assigned course.

SW-4, 05 NOV 2020 to 31 DEC 2020

TAKEOFF OBSTACLE NOTES

Rwy 3L: Lighting 8′ from DER, 19′ right of centerline, 1′ AGL/4939′ MSL.
Sign 15′ from DER, 126′ left of centerline, 3′ AGL/4939′ MSL.
Tree 20′ from DER, 408′ left of centerline, 4949′ MSL.
Tree 184′ from DER, 404′ left of centerline, 4951′ MSL.

Rwy 12: Tree 4′ from DER, 323′ right of centerline, 5066′ MSL.
Buildings, lighting, sign beginning 9′ from DER, 122′ left of centerline, up to 31′ AGL/5057′ MSL.
Tree, utility pole, sign, terrain beginning 19′ from DER, 65′ right of centerline, up to 28′ AGL/5086′ MSL.
Terrain, trees, building, lighting beginning 24′ from DER, 111′ left of centerline, up to 46′ AGL/5062′ MSL.
Terrain, road beginning 196′ from DER, 317′ left of centerline, up to 5069′ MSL.
Trees beginning 302′ from DER, 361′ left of centerline, up to 45′ AGL/5083′ MSL.
Tower, road, trees, pole beginning 426′ from DER, 267′ left of centerline, up to 46′ AGL/5092′ MSL.
Terrain, trees beginning 2.1 NM from DER, 2368′ right of centerline, up to 56′ AGL/5656′ MSL.

Rwy 21R: Sign, terrain beginning 11′ from DER, 82′ left of centerline, up to 2′ AGL/4977′ MSL.
Sign, trees, road, building, electrical system, pole, tank beginning 11′ from DER, 19′ right of centerline, up to 50′ AGL/5024′ MSL.
Trees beginning 90′ from DER, 70′ left of centerline, up to 50′ AGL/5041′ MSL.
Trees, poles, building beginning 752′ from DER, 22′ right of centerline, up to 50′ AGL/5031′ MSL.
Tree, pole beginning 940′ from DER, 3′ left of centerline, up to 50′ AGL/5044′ MSL.
Trees, poles, building beginning 980′ from DER, 22′ right of centerline, up to 50′ AGL/5044′ MSL.
Fence, trees, poles, road, building, stack, tank beginning 1207′ from DER, 35′ right of centerline, up to 57′ AGL/5054′ MSL.
Trees, poles beginning 1561′ from DER, left and right of centerline, up to 50′ AGL/5064′ MSL.
Trees beginning 1954′ from DER, 129′ left of centerline, 50′ AGL/5064′ MSL.
Trees beginning 2325′ from DER, left and right of centerline, up to 50′ AGL/5080′ MSL.
Trees beginning 2615′ from DER, 140′ left of centerline, up to 50′ AGL/5077′ MSL.
Building, trees beginning 2718′ from DER, 35′ right of centerline, up to 50′ AGL/5093′ MSL.
Trees, pole beginning 3134′ from DER, 128′ left of centerline, up to 50′ AGL/5090′ MSL.
Trees beginning 3442′ from DER, 24′ right of centerline, up to 50′ AGL/5103′ MSL.
Trees beginning 3527′ from DER, 175′ left of centerline, up to 50′ AGL/5103′ MSL.
Antenna, building, trees beginning 3772′ from DER, left and right of centerline, up to 90′ AGL/5116′ MSL.
Trees beginning 4194′ from DER, 145′ right of centerline, up to 5113′ MSL.
Trees beginning 4759′ from DER, left and right of centerline, up to 75′ AGL/5117′ MSL.
Trees beginning 5180′ from DER, 15′ right of centerline, 70′ AGL/5119′ MSL.
Trees beginning 5408′ from DER, 743′ right of centerline, up to 50′ AGL/5126′ MSL.

Rwy 21L: Lighting, fence beginning 30′ from DER, 336′ left of centerline, up to 7′ AGL/5042′ MSL.
Road, fence, tree beginning 111′ from DER, 469′ left of centerline, up to 5051′ MSL.
Road, fence beginning 300′ from DER, 455′ left of centerline, up to 5056′ MSL.
Wind indicator, pole, tree, roads beginning 402′ from DER, 269′ right of centerline, up to 5076′ MSL.
Tree, fence, roads, lighting, pole, sign, navaid, building beginning 614′ from DER, 41′ left of centerline, up to 5113′ MSL.
Trees, road beginning 782′ from DER, 528′ right of centerline, up to 47′ AGL/5089′ MSL.
Trees, road, pole, fence, electrical system, building, lighting, antenna beginning 971′ from DER, 2′ right of centerline, up to 70′ AGL/5117′ MSL.
Trees beginning 1779′ from DER, 108′ left of centerline, up to 71′ AGL/5116′ MSL.

Rwy 30: Buildings, sign, poles beginning 28′ from DER, 127′ left of centerline, up to 25′ AGL/5041′ MSL.

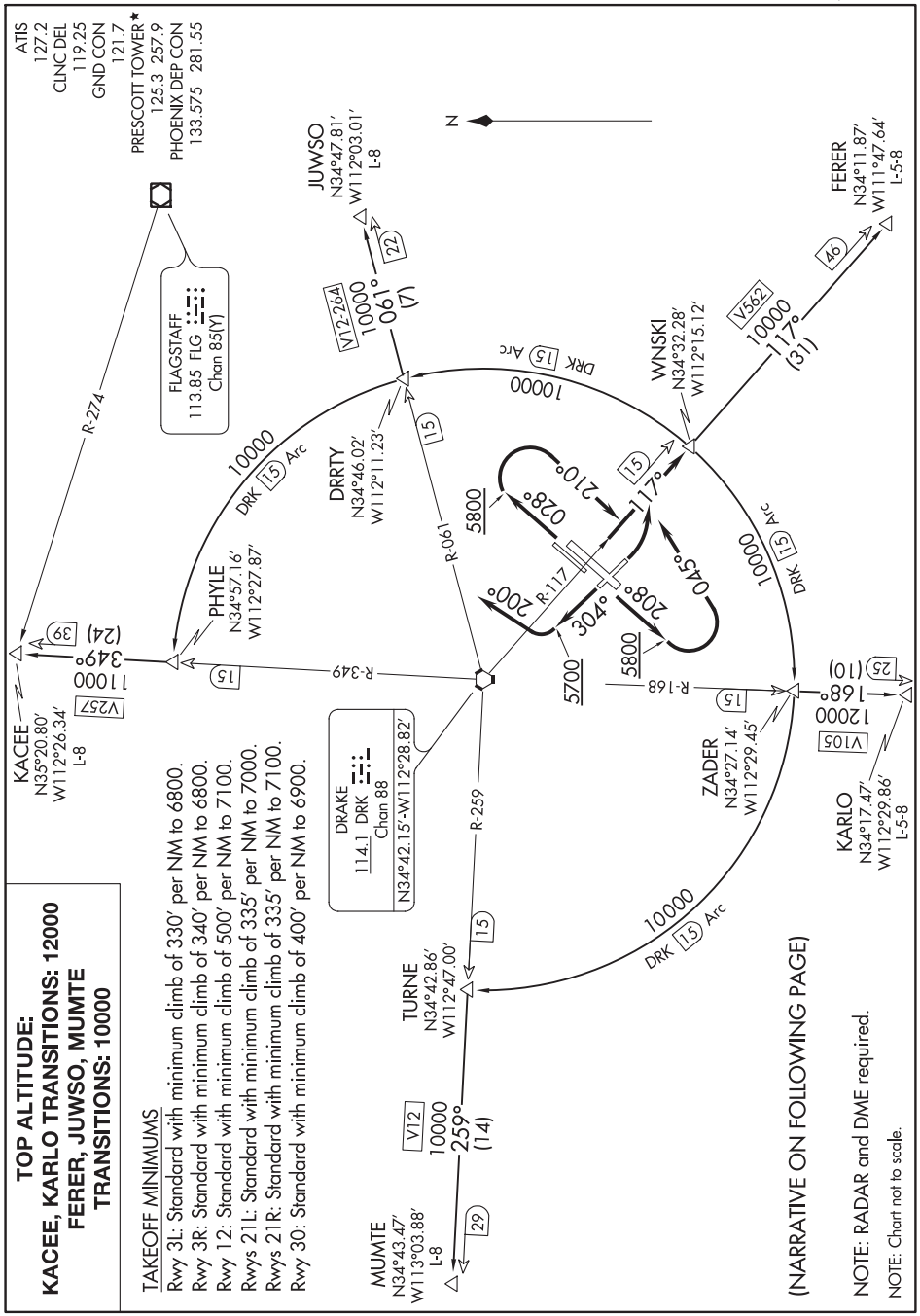
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(WNSKI2.WNSKI) 19171

WNSKI TWO DEPARTURE

AL-546 (FAA)

PRESCOTT RGNL-ERNEST A LOVE FIELD (PRC)
PRESCOTT, ARIZONA



TOP ALTITUDE:
KACEE, KARLO TRANSITIONS: 12000
FERER, JUWSO, MUMTE TRANSITIONS: 10000

TAKEOFF MINIMUMS
Rwy 3L: Standard with minimum climb of 330′ per NM to 6800.
Rwy 3R: Standard with minimum climb of 340′ per NM to 6800.
Rwy 12: Standard with minimum climb of 500′ per NM to 7100.
Rwys 21L: Standard with minimum climb of 335′ per NM to 7000.
Rwys 21R: Standard with minimum climb of 335′ per NM to 7100.
Rwy 30: Standard with minimum climb of 400′ per NM to 6900.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WNSKI TWO DEPARTURE

PRESCOTT, ARIZONA
PRESCOTT RGNL-ERNEST A LOVE FIELD (PRC)

(WNSKI2.WNSKI) 20JUN19

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 3L/R: Climb on heading 028° to 5800, then climbing right turn to heading 210° to intercept DRK VORTAC R-117 to WNSKI, thence. . . .

TAKEOFF RUNWAY 12: Climbing left turn to intercept DRK VORTAC R-117 to WNSKI, thence. . . .

TAKEOFF RUNWAYS 21L/R: Climb on heading 208° to 5800, then climbing left turn heading 045° to intercept DRK VORTAC R-117 to WNSKI, thence. . . .

TAKEOFF RUNWAY 30: Climb on heading 304° to 5700, then climbing right turn to heading 200° to intercept DRK VORTAC R-117 to WNSKI, thence. . . .

. . . .on transition. FERER, JUWSO, MUMTE, transitions maintain 10000. KACEE, KARLO, transitions maintain 12000. Expect filed altitude 5 minutes after departure.

FERER TRANSITION (WNSKI2.FERER): From over WNSKI on DRK R-117 to FERER.

JUWSO TRANSITION (WNSKI2.JUWSO): From over WNSKI on DRK 15 DME Arc CCW to DRRTY, then on DRK R-061 to JUWSO.

KACEE TRANSITION (WNSKI2.KACEE): From over WNSKI on DRK 15 DME Arc CCW to PHYLE, then on DRK R-349 to KACEE.

KARLO TRANSITION (WNSKI2.KARLO): From over WNSKI on DRK 15 DME Arc CW to ZADER, then on DRK R-168 to KARLO.

MUMTE TRANSITION (WNSKI2.MUMTE): From over WNSKI on DRK 15 DME Arc CW to TURNE, then on DRK R-259 to MUMTE.

PRICE, UTAH | AL-681 (FAA) | 20086

ILS or LOC RWY 1
CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

LOC/DME I-PUC	APP CRS	Rwy ldg	8316
109.35	007°	TDZE	5862
Chan 30 (Y)		Apt Elev	5958

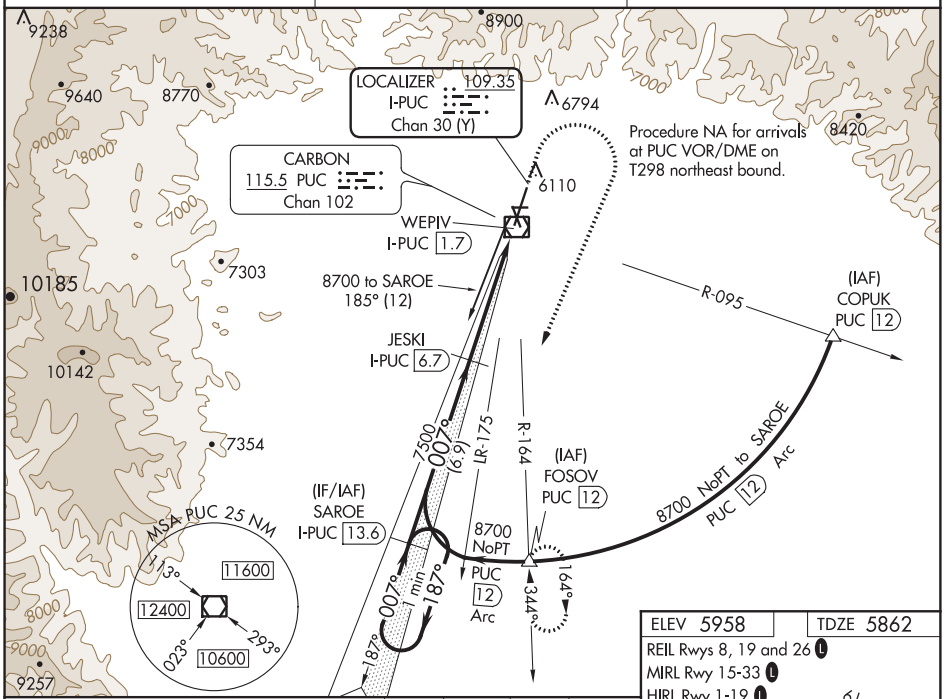
DME required for procedure entry. DME required.

T A NA — Circling NA at night. For inoperative ALS, increase S-ILS 1 all Cats visibility to 7/8 SM. Inoperative table does not apply to S-ILS 1# all Cats.

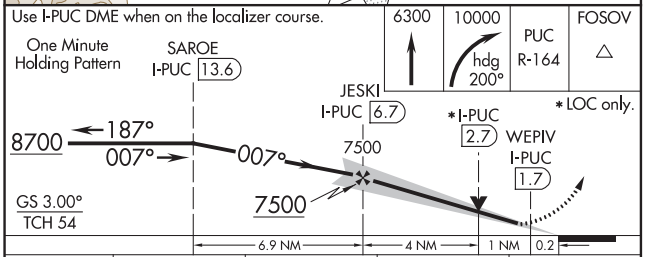
MALSF

MISSED APPROACH: Climb to 6300 then climbing right turn to 10000 on heading 200° and on PUC VOR/DME R-164 to FOSOV/PUC 12 DME and hold, continue climb-in-hold to 10000. #Missed approach requires minimum climb of 339 feet per NM to 7100.

ASOS	SALT LAKE CENTER	UNICOM
135.425	133.9 370.85	122.8 (CTAF) L



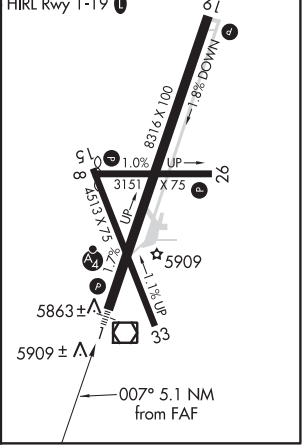
Use I-PUC DME when on the localizer course.



CATEGORY	A	B	C	D
S-ILS 1#	6062-¾ 200 (200-¾)			
S-ILS 1	6127-¾ 265 (200-¾)			
S-LOC 1	6240-¾ 378 (300-¾)			
C CIRCLING	6660-1 702 (800-1)	6860-1¼ 902 (1000-1¼)	7120-3 1162 (1200-3)	NA

ELEV 5958 | TDZE 5862

REIL Rwys 8, 19 and 26 L
MIRL Rwy 15-33 L
HIRL Rwy 1-19 L



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 1

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

WAAS CH 78037 W01A	APP CRS 007°	Rwy ldg 8316 TDZE 5862 Apt Elev 5958

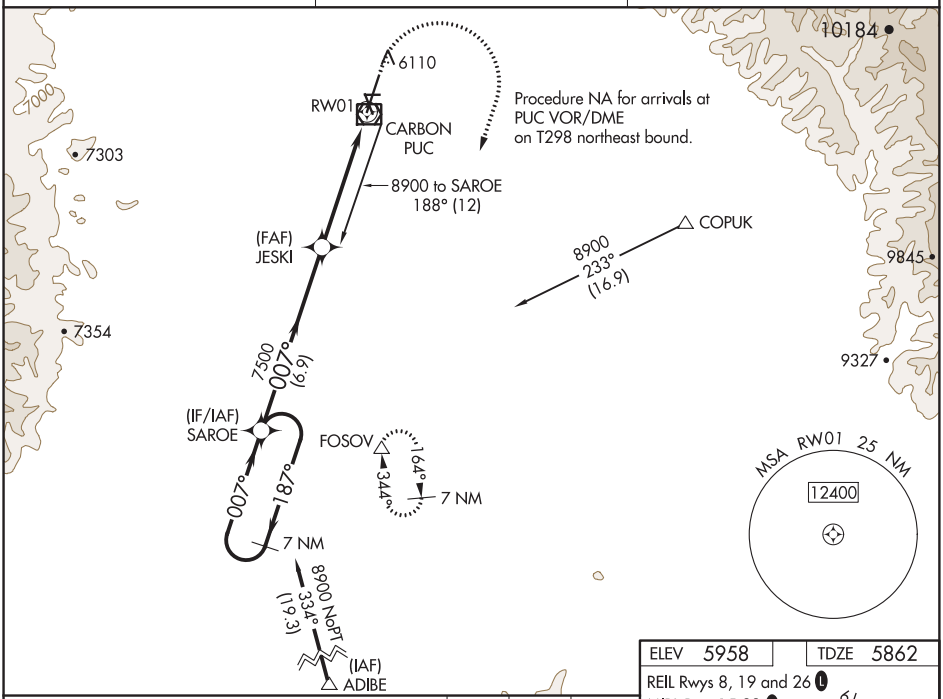
RNP APCH.

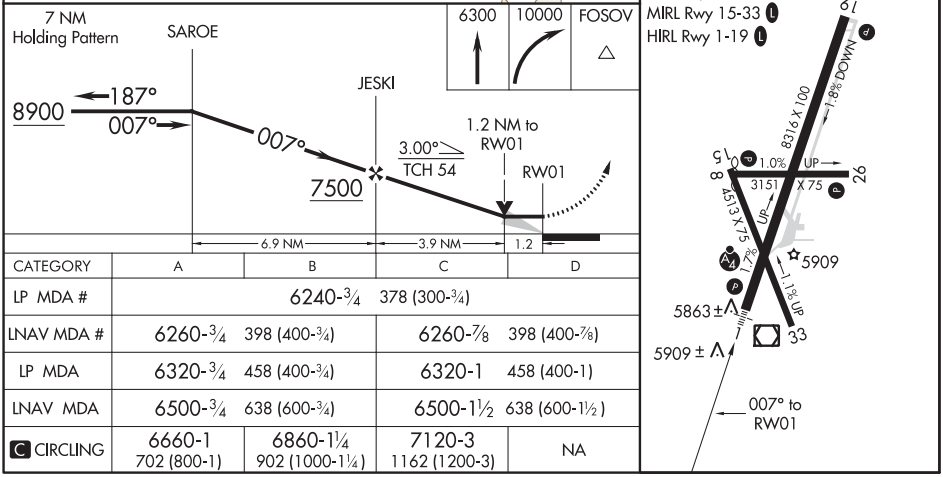
Circling NA at night. For inoperative ALS increase LP Cat C/D visibility to 1⅜ SM.

MALSF

MISSED APPROACH: Climb to 6300 then climbing right turn to 10000 direct FOSOV and hold, continue climb-in-hold to 10000. #Missed approach requires minimum climb of 296 feet per NM to 7500.

ASOS	SALT LAKE CENTER	UNICOM
135.425	133.9 370.85	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA #	6240-¾ 378 (300-¾)			
LNAV MDA #	6260-¾ 398 (400-¾)		6260-⅞ 398 (400-⅞)	
LP MDA	6320-¾ 458 (400-¾)		6320-1 458 (400-1)	
LNAV MDA	6500-¾ 638 (600-¾)		6500-1½ 638 (600-1½)	
C CIRCLING	6660-1 702 (800-1)	6860-1¼ 902 (1000-1¼)	7120-3 1162 (1200-3)	NA

PROVO, UTAH

AL-683 (FAA)

20254

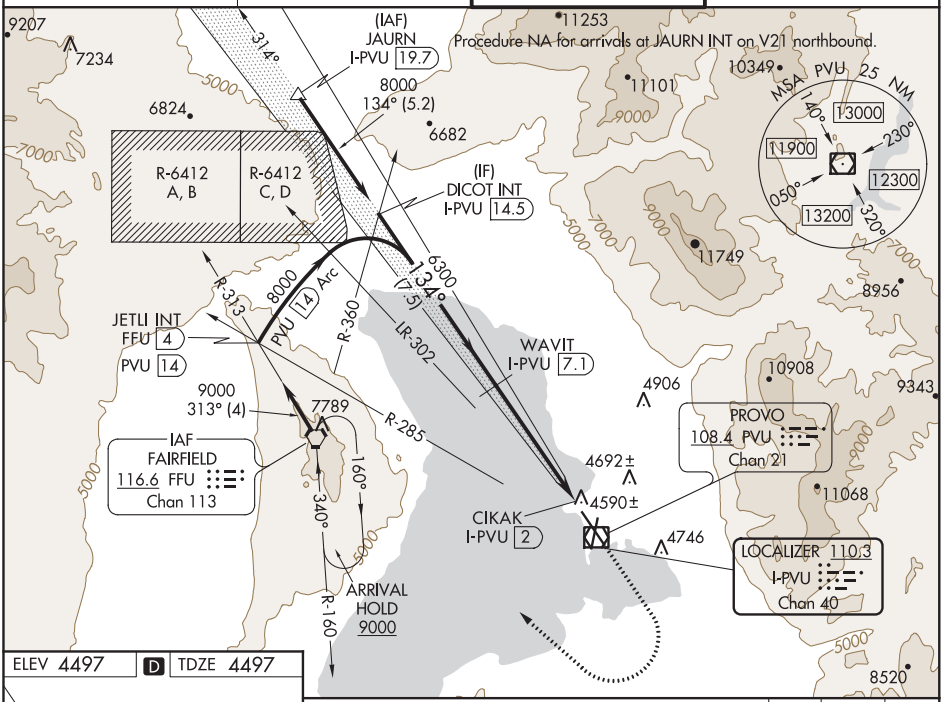
ILS or LOC RWY 13
PROVO MUNI (PVU)

LOC/DME I-PVU	APP CRS	Rwy ldg	8599
110.3	134°	TDZE	4497
Chan 40		Apt Elev	4497

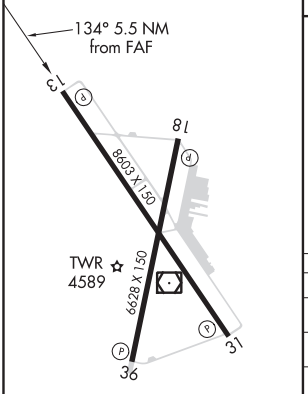
Circling to Rwy 18 NA at night.
Circling NA east of Rwys 18 and 36.
DME required.

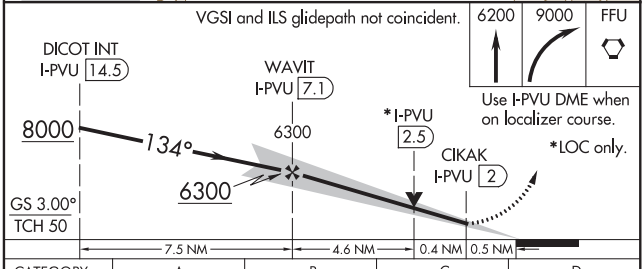
MISSED APPROACH: Climb to 6200 then climbing right turn to 9000 direct FFU VORTAC and hold.
Missed approach requires minimum climb of 300 feet per NM to 8700.

ATIS★	SALT LAKE CITY APP CON	PROVO TOWER★	GND CON
135.175	118.85 233.7	125.3 (CTAF)	119.4



ELEV 4497 | D | TDZE 4497





CATEGORY	A	B	C	D
S-ILS 13#	4697-¾ 200 (200-¾)			
S-ILS 13	5077-1⅝ 580 (600-1⅝)			
S-LOC 13#	4820-1 323 (400-1)			
S-LOC 13	5220-1 723 (800-1)		5220-2 723 (800-2)	
C CIRCLING	5220-1 723 (800-1)		5220-2 723 (800-2)	5260-2½ 763 (800-2½)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

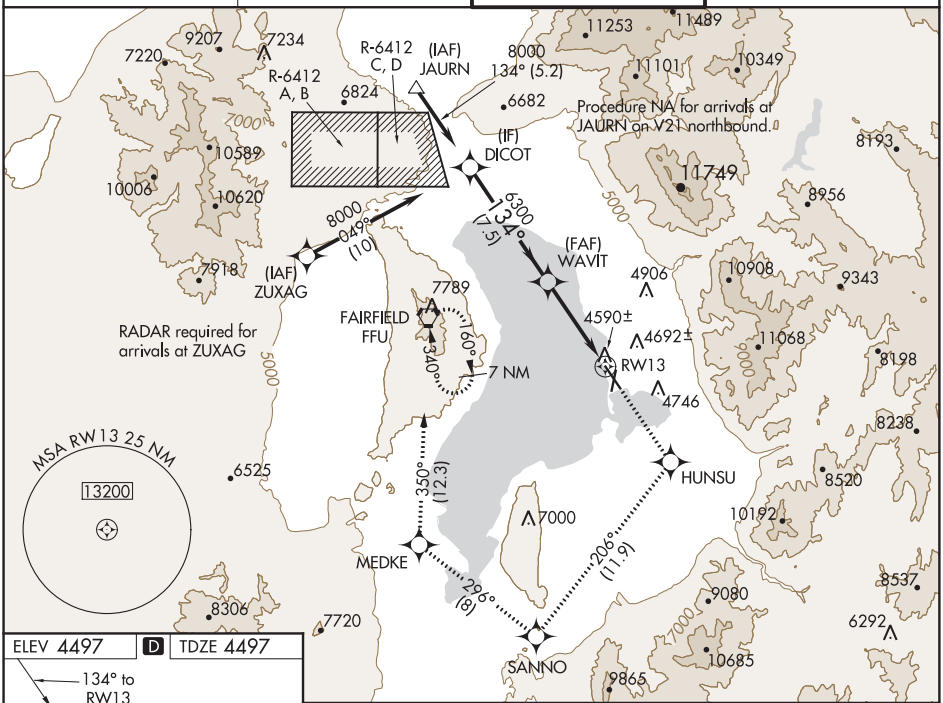
RNAV (GPS) RWY 13
PROVO MUNI (PVU)

WAAS CH 97307 W13A	APP CRS 134°	Rwy ldg 8599 TDZE 4497 Apt Elev 4497

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F).
DME/DME RNP-0.3 NA.
Circling NA east of Rwys 18 and 31.

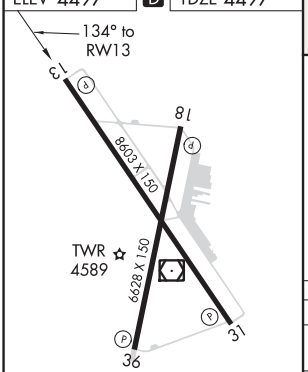
MISSED APPROACH: Climb to 9000 direct HUNSU and on track 206° to SANNO and right turn on track 296° to MEDKE and on track 350° to FFU VORTAC and hold.

ATIS★	SALT LAKE CITY APP CON	PROVO TOWER★	GND CON
135.175	118.85 233.7	125.3 (CTAF)	119.4

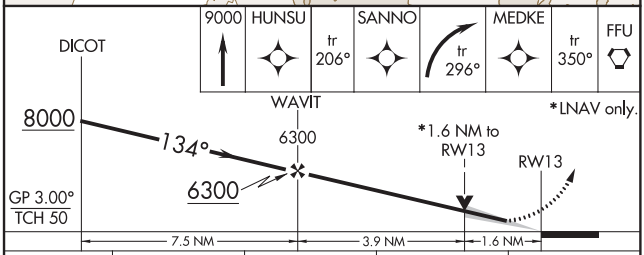


SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 4497 | D | TDZE 4497



REIL Rwy 13
HIRL Rwy 13-31
MIRL Rwy 18-36



CATEGORY		A	B	C	D
LPV	DA	4697-¾ 200 (200-¾)			
LNAV/VNAV	DA	4940-1½ 443 (500-1½)			
LNAV	MDA	5040-1 543 (600-1)		5040-1⅝ 543 (600-1⅝)	
CIRCLING		5040-1 543 (600-1)		5040-1⅝ 543 (600-1⅝)	5060-2 563 (600-2)

PROVO, UTAH | AL-683 (FAA) | 20254

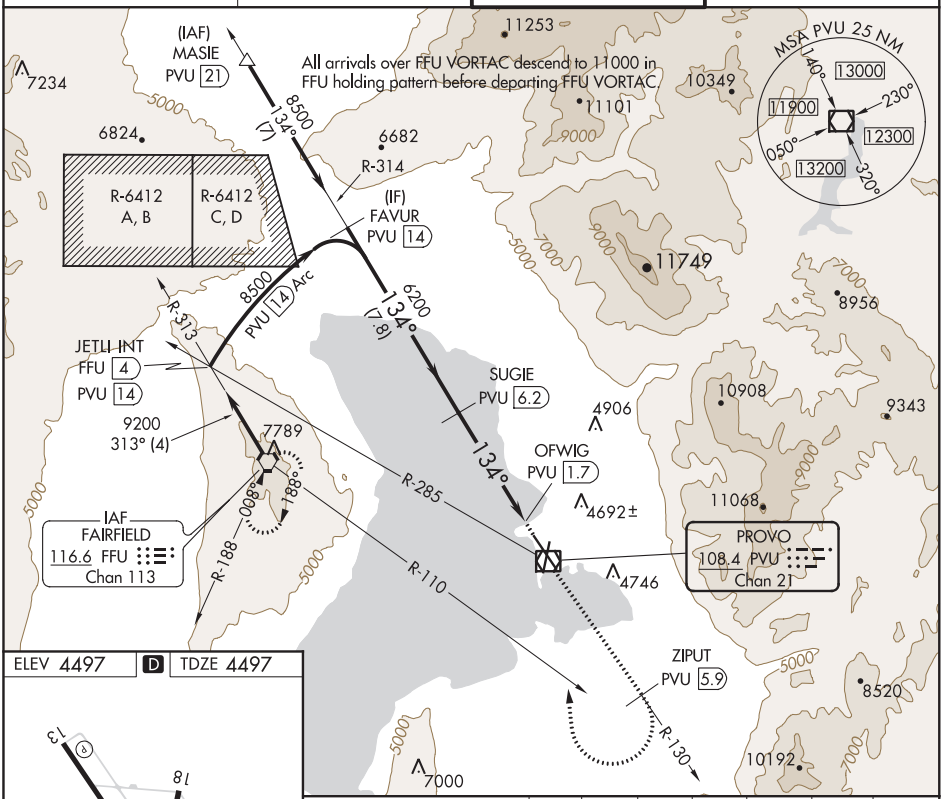
VOR/DME RWY 13
PROVO MUNI (PVU)

VOR/DME PVU 108.4 Chan 21	APP CRS 134°	Rwy ldg 8599 TDZE 4497 Apt Elev 4497

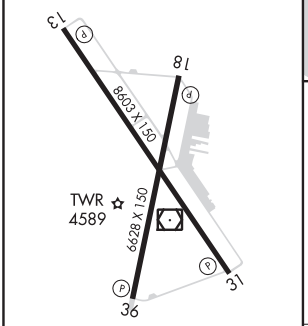
Circling NA east of Rwys 18 and 31.

MISSED APPROACH: Climb to 9000 direct PVU VOR/DME and PVU R-130 to ZIPUT/5.9 DME then climbing right turn via heading 330° and FFU VORTAC R-110 to FFU VORTAC and hold.

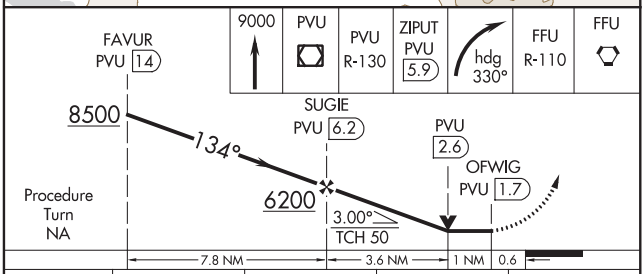
ATIS★	SALT LAKE CITY APP CON	PROVO TOWER★	GND CON
135.175	118.85 233.7	125.3 (CTAF)	119.4



ELEV 4497 | D | TDZE 4497



REIL Rwy 13
HIRL Rwy 13-31
MIRL Rwy 18-36

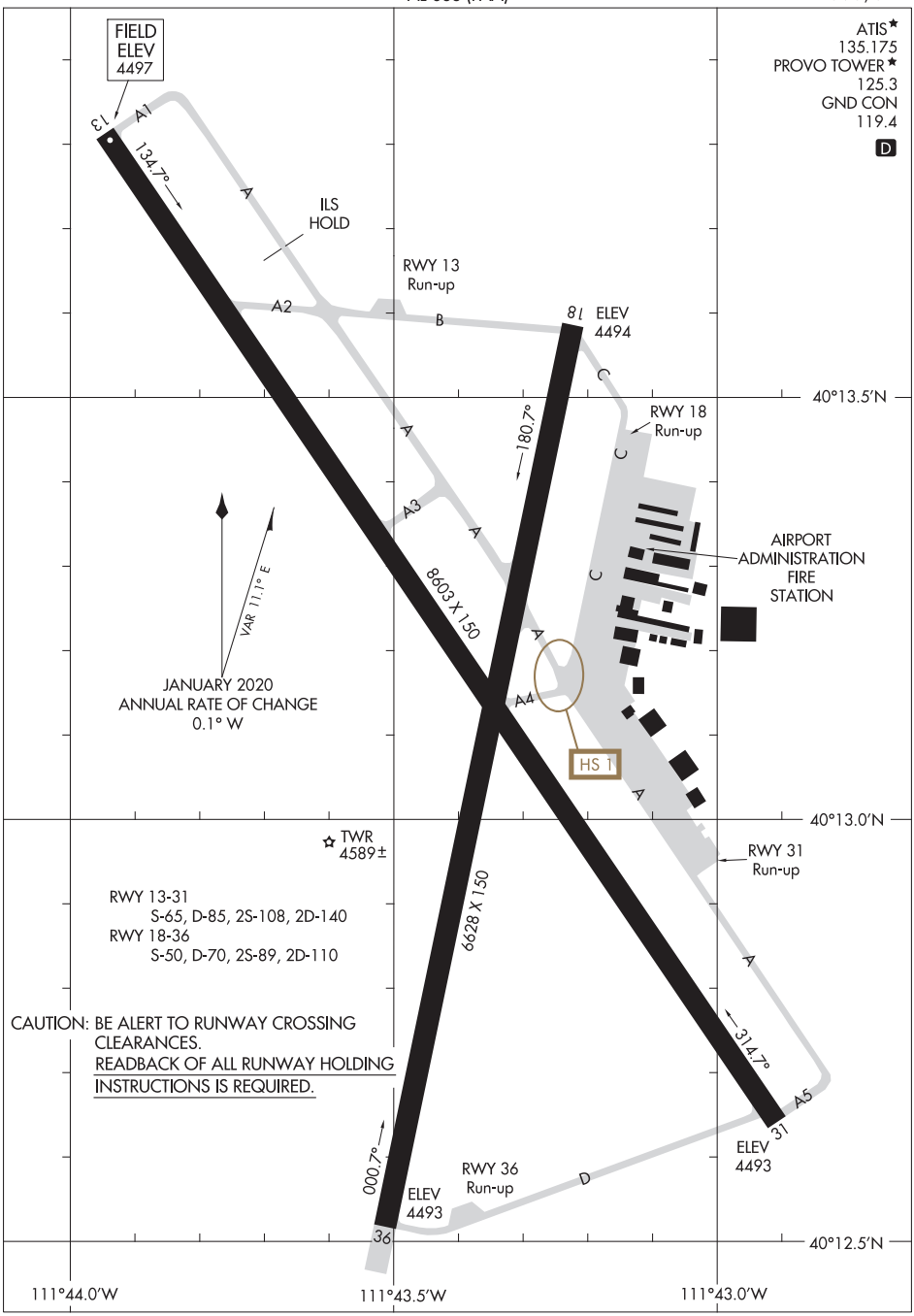


CATEGORY	A	B	C	D
S-13	5040-1 543 (600-1)		5040-1½ 543 (600-1½)	5040-1¾ 543 (600-1¾)
CIRCLING	5040-1 543 (600-1)		5040-1½ 543 (600-1½)	5060-2 563 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-683 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(PROVO4.FFU) 18312

AL-683 (FAA)

PROVO FOUR DEPARTURE (OBSTACLE)

PROVO MUNI (PVU)
PROVO, UTAH

ATIS 135.175 ★
GND CON 119.4
PROVO TOWER ★
125.3 (CTAF)
SALT LAKE CITY DEP CON
118.85 233.7

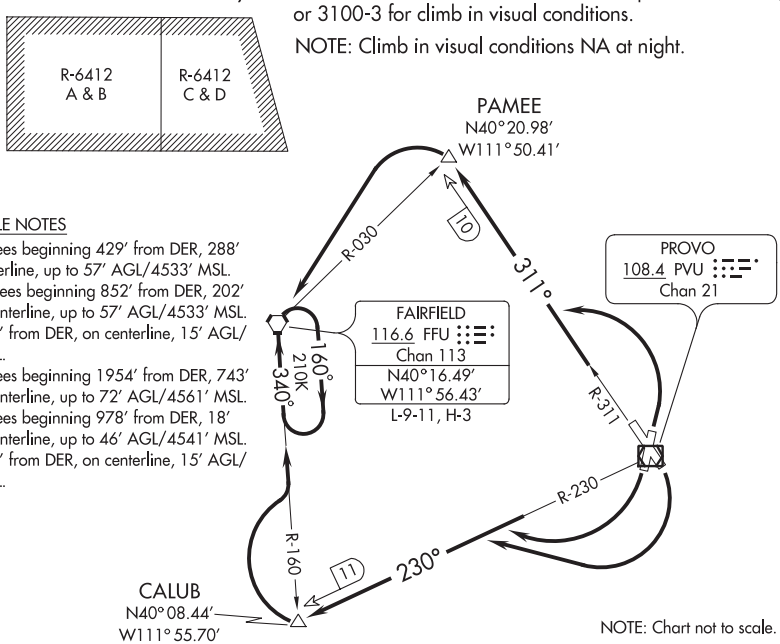
TAKEOFF MINIMUMS

Rwy 13: Standard with a minimum climb of 400′ per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 18: Standard with a minimum climb of 350′ per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 31: Standard with a minimum climb of 380′ per NM to 9000, or 3100-3 for climb in visual conditions.
Rwy 36: Standard with a minimum climb of 365′ per NM to 9000, or 3100-3 for climb in visual conditions.

NOTE: Climb in visual conditions NA at night.

TAKEOFF OBSTACLE NOTES

Rwy 18: Multiple trees beginning 429′ from DER, 288′ left of centerline, up to 57′ AGL/4533′ MSL. Multiple trees beginning 852′ from DER, 202′ right of centerline, up to 57′ AGL/4533′ MSL. Road 775′ from DER, on centerline, 15′ AGL/4518′ MSL.
Rwy 31: Multiple trees beginning 1954′ from DER, 743′ right of centerline, up to 72′ AGL/4561′ MSL.
Rwy 36: Multiple trees beginning 978′ from DER, 18′ right of centerline, up to 46′ AGL/4541′ MSL. Road 210′ from DER, on centerline, 15′ AGL/4516′ MSL.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 13, 18: Climbing right turn to 9000 via PVU VOR/DME R-230 to CALUB INT/PVU 11 DME and a right turn via FFU VORTAC R-160 to FFU VORTAC and hold. Thence.... or climb in visual conditions to cross Provo Muni Airport southwest bound at or above 7400, climb to 9000 via PVU R-230 to CALUB INT/PVU 11 DME and right turn via FFU R-160 to FFU VORTAC and hold. Thence...

TAKEOFF RUNWAY 31: Climb to 9000 via PVU VOR/DME R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence....
or climb in visual conditions to cross Provo Muni Airport northwest bound at or above 7400, climb to 9000 via PVU R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence...

TAKEOFF RUNWAY 36: Climbing left turn to 9000 via PVU VOR/DME R-311 to PAMEE INT/PVU 10 DME and left turn direct FFU VORTAC and hold. Thence....
or climb in visual conditions to cross Provo Muni Airport northwest bound at or above 7400, climb to 9000 via PVU R-311 to PAMEE INT/PVU 10 DME, and left turn direct FFU VORTAC and hold. Thence...

....Expect clearance for filed route and altitude within 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020

PROVO FOUR DEPARTURE (OBSTACLE)

PROVO, UTAH
PROVO MUNI (PVU)

(PROVO4.FFU) 27AUG09

ILS or LOC RWY 32
RENO/STEAD (RTS)

LOC/DME I-RTS	APP CRS	Rwy ldg	7800
111.9	318°	TDZE	5045
Chan 56		Apt Elev	5050

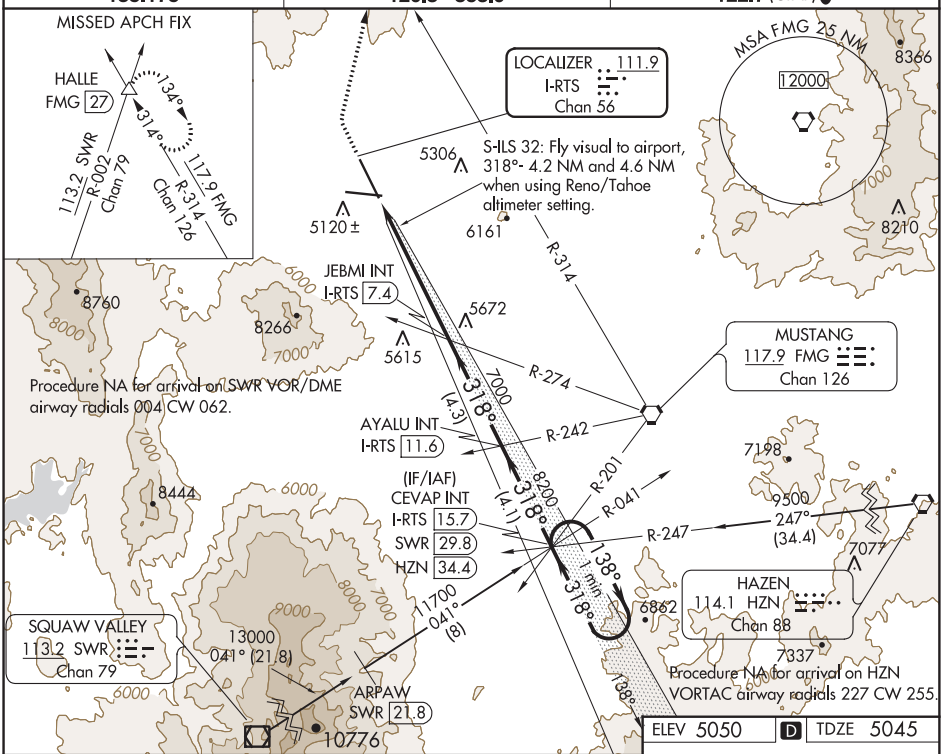
T NA -15°C

Inoperative table does not apply. Procedure NA at night. When local altimeter setting not received, use Reno/Tahoe Intl altimeter setting and increase all DA/MDA 120 feet. VDP NA when using Reno/Tahoe Intl altimeter setting. DME required. Circling NA for Cat D southwest of Rwy 14-32.

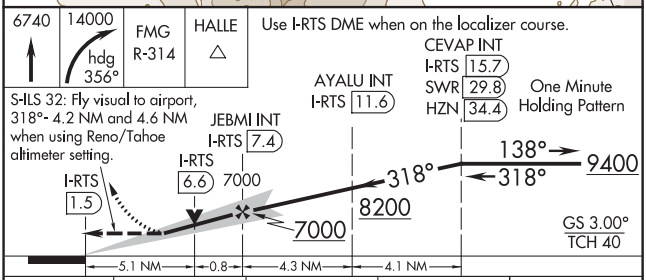
MALSR

MISSED APPROACH: Climb to 6740 then climbing right turn to 14000 on heading 356° and FMG VORTAC R-314 to HALLE INT/FMG 27 DME and hold, continue climb-in-hold to 14000.

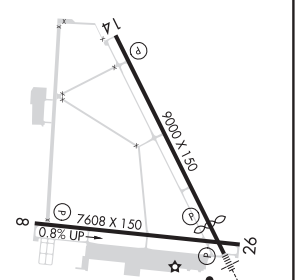
AWOS-3	NORCAL APP CON	UNICOM
135.175	126.3 353.9	122.7 (CTAF) L



ELEV 5050 D TDZE 5045



CATEGORY	A	B	C	D
S-ILS 32	6425-3 1380 (1400-3)			
S-LOC 32	6720-1¼ 1675 (1700-1¼)	6720-1½ 1675 (1700-1½)	6720-3 1675 (1700-3)	
C CIRCLING	6720-1¼ 1670 (1700-1¼)	6720-1½ 1670 (1700-1½)	6720-3 1670 (1700-3)	



HIRL Rwys 8-26 and 14-32 L
REIL Rwys 8, 26, 14 and 32

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA | AL-524 (FAA) | 20058

RNAV (GPS) RWY 32
RENO/STEAD (RTS)

WAAS CH 60920 W32A	APP CRS 318°	Rwy ldg 7800 TDZE 5045 Apt Elev 5050

When VGSI inoperative, Circling Rwy 8 NA at night. DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Reno/Tahoe Intl altimeter setting and increase all DA 115 feet and all MDA 120 feet. Inoperative table does not apply. Circling NA for Cat D southwest of Rwy 14-32.

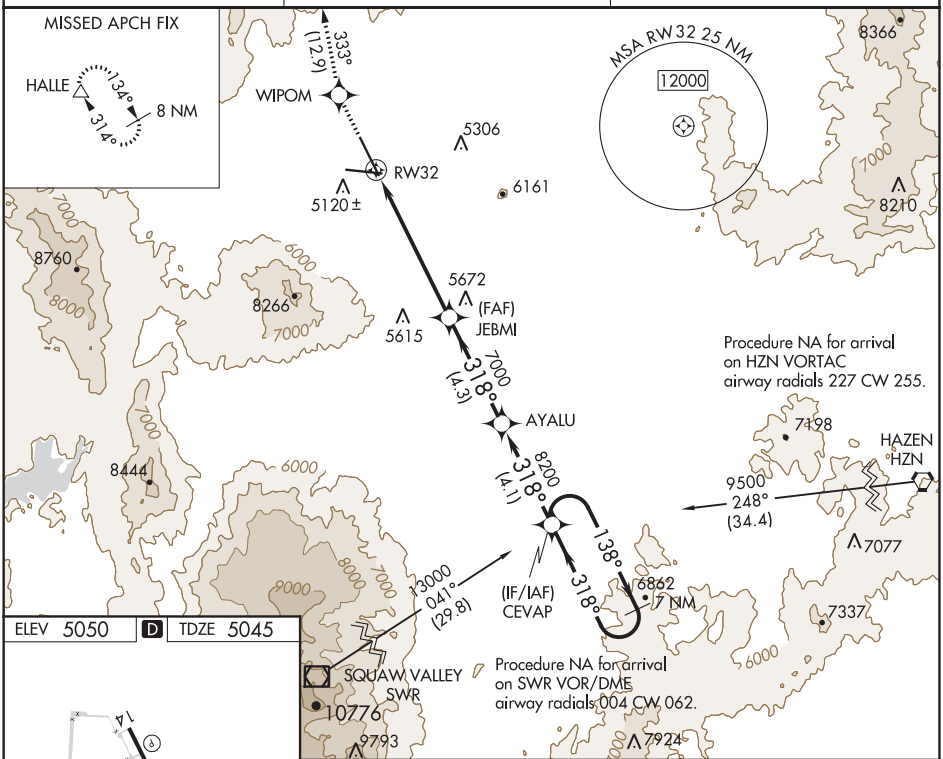
NA

-15°C

MALSR

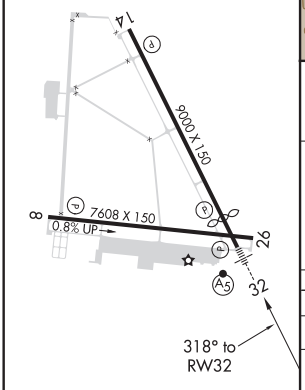
MISSED APPROACH: Climb to 14000 direct WIPOM and on track 333° to HALLE and hold, continue climb-in-hold to 14000.

AWOS-3	NORCAL APP CON	UNICOM
135.175	126.3 353.9	122.7 (CTAF) L

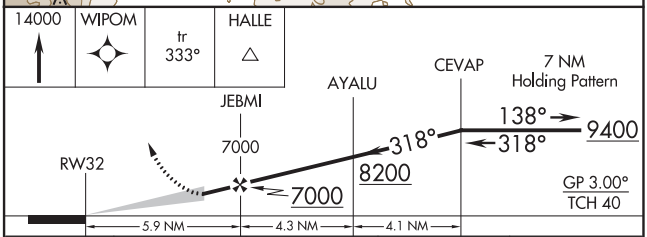


SW-4, 05 NOV 2020 to 31 DEC 2020

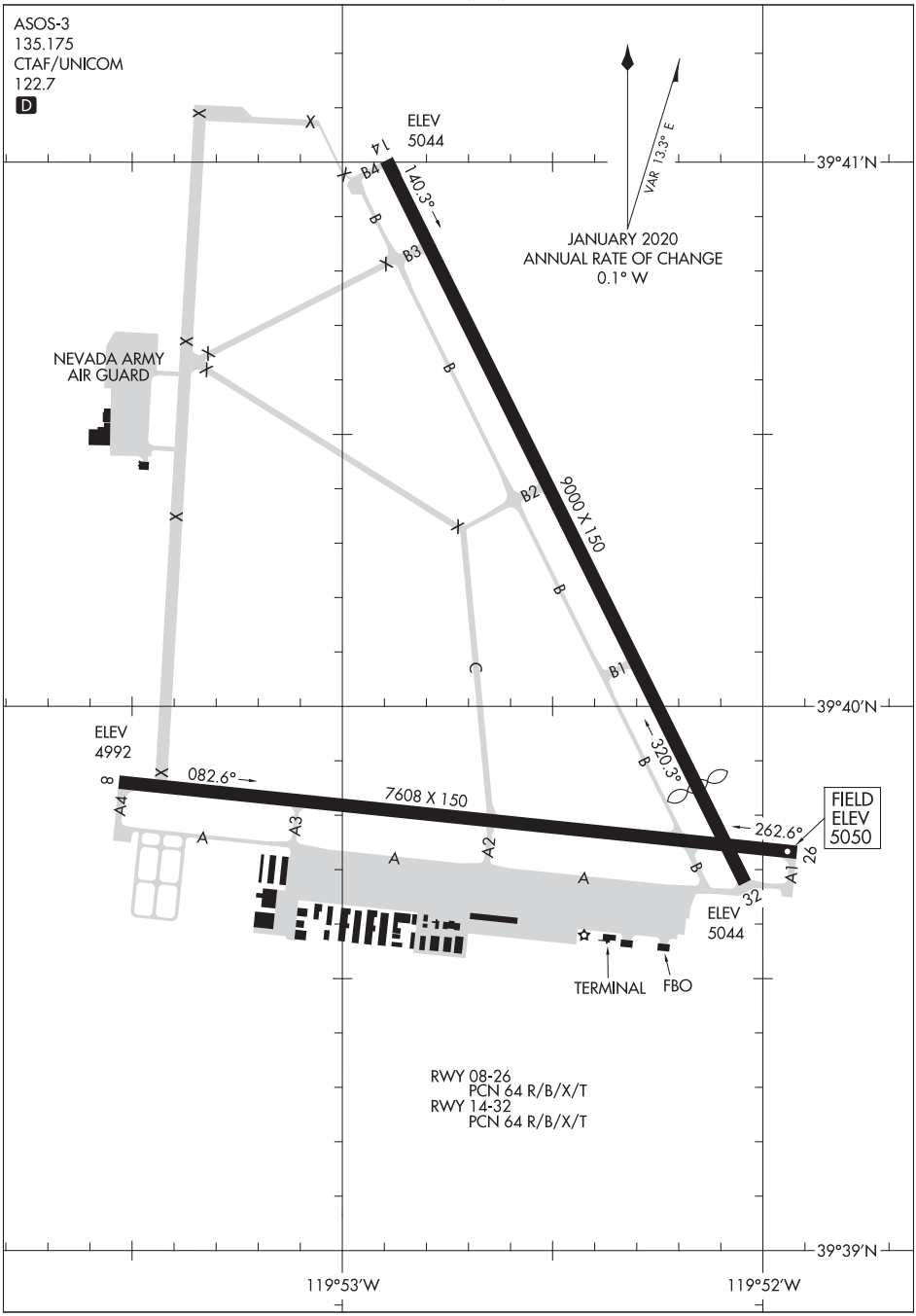
ELEV 5050 | D | TDZE 5045



HIRL Rwys 8-26 and 14-32 L
REIL Rwys 8, 26, 14 and 32



CATEGORY	A	B	C	D
LPV DA	6533-6 1488 (1500-6)			
LNAV MDA	6840-1¼ 1795 (1800-1¼)	6840-1½ 1795 (1800-1½)	6840-3 1795 (1800-3)	
C CIRCLING	6840-1¼ 1790 (1800-1¼)	6840-1½ 1790 (1800-1½)	6840-3 1790 (1800-3)	



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA AL-346 (FAA) 20086

ILS or LOC/DME RWY 34L

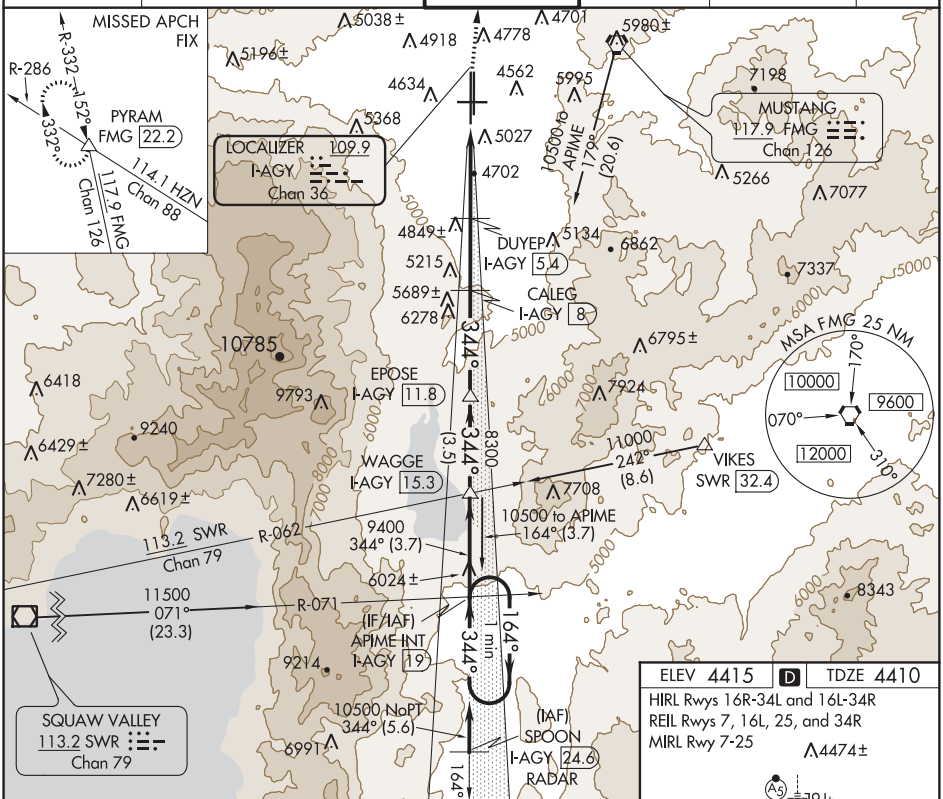
RENO/TAHOE INTL (RNO)

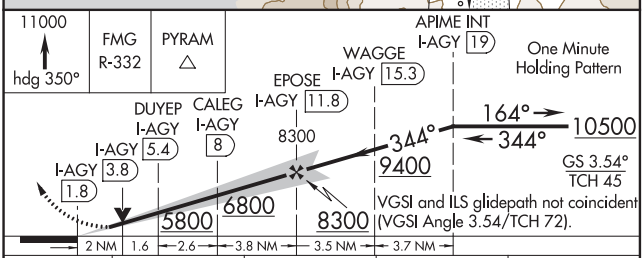
LOC/DME I-AGY	APP CRS	Rwy ldg 10011
109.9	344°	TDZE 4410
Chan 36		Apt Elev 4415

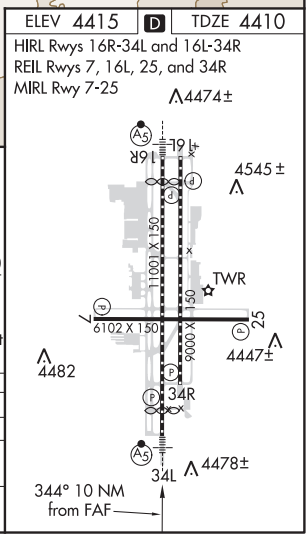
T Inoperative table does not apply.
A If local altimeter setting not received, procedure NA.
-15°C Circling Rwy 7 NA at night.

MALSR A5 MISSED APPROACH: Climb to 11000 via heading 350° and FMG VORTAC R-332 to PYRAM INT/FMG 22.2 DME and hold, continue climb-in-hold to 11000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	







CATEGORY	A	B	C	D
S-ILS 34L	4946-1½ 536 (600-1½)			NA
S-LOC 34L	5120-1 710 (800-1)		5120-2 710 (800-2)	NA
CIRCLING	5340-1¼ 925 (1000-1¼)		5340-2¾ 925 (1000-2¾)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA
Orig-C 01FEB18

39°30'N-119°46'W

RENO/TAHOE INTL (RNO)

ILS or LOC/DME RWY 34L

ILS X or LOC X RWY 16R

RENO/TAHOE INTL (RNO)

LOC/DME I-RNO	APP CRS	Rwy ldg	10001
110.9	164°	TDZE	4415
Chan 46		Apt Elev	4415

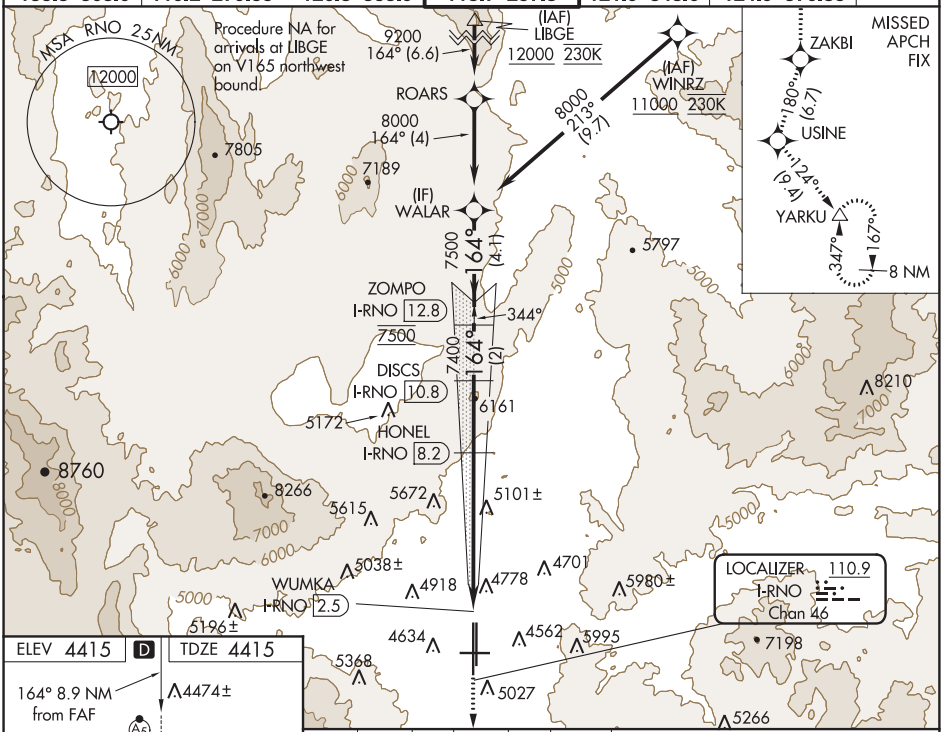
DME/DME RNP-0.3 NA. RNAV 1-GPS required. DME required. Circling Rwy 7 NA at night.
For inop MALSR, increase S-ILS 16R all Cats visibility to 2½ mile.
† RVR 1800 authorized with use of FD or AP or HUD to DA.

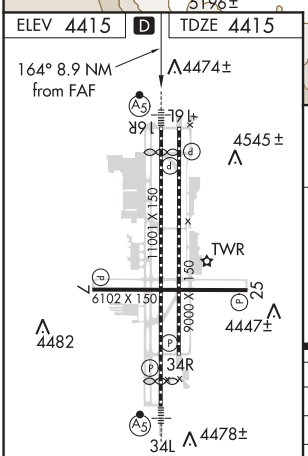
-15°C

MALSR

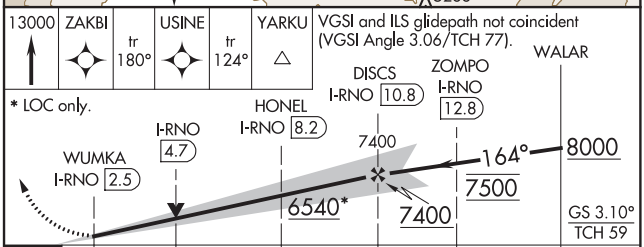
MISSED APPROACH: Climb to 13000 on the RNAV missed approach route to YARKU and hold, continue climb-in-hold to 13000.
† Missed approach requires minimum climb of 390 feet per NM to 8000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	





MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R



CATEGORY	A	B	C	D
S-ILS 16R †	4615/24 200 (200-½)			
S-ILS 16R #	5138-1⅞ 723 (800-1⅞)			
S-LOC 16R	5420/40 1005 (1100-¾)	5420/55 1005 (1100-1)	5420-2½ 1005 (1100-2½)	
C CIRCLING	5420-1¼ 1005 (1100-1¼)	5420-1½ 1005 (1100-1½)	6480-3 2065 (2100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS Z or LOC Z RWY 16R

RENO/TAHOE INTL (RNO)

LOC/DME I-RNO	APP CRS	Rwy ldg	10001
110.9	164°	TDZE	4415
Chan 46		Apt Elev	4415

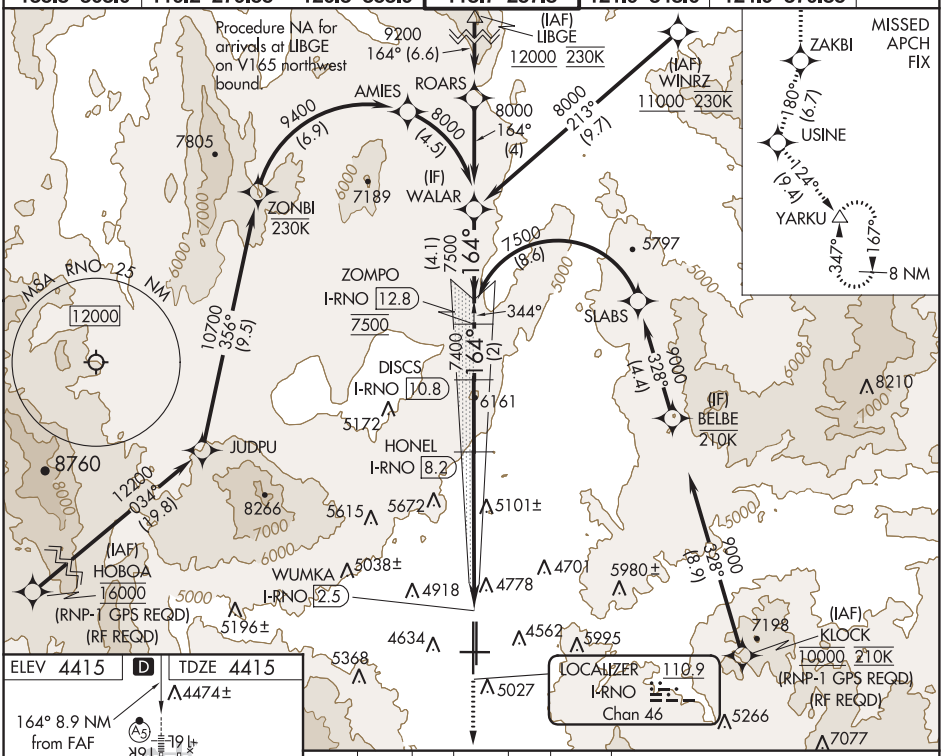
Circling Rwy 7 NA at night. DME/DME RNP-0.3 NA. DME required. RNAV 1-GPS required.
For inop MALSR, increase S-ILS 16R all Cats visibility to 2 ½ mile.
† RVR 1800 authorized with use of FD or AP or HUD to DA.

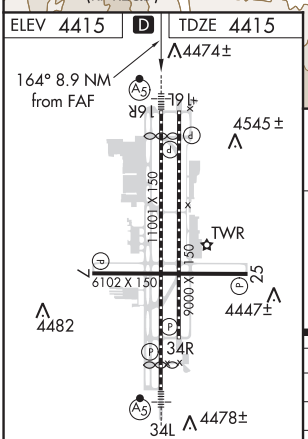
-15°C

MALSR

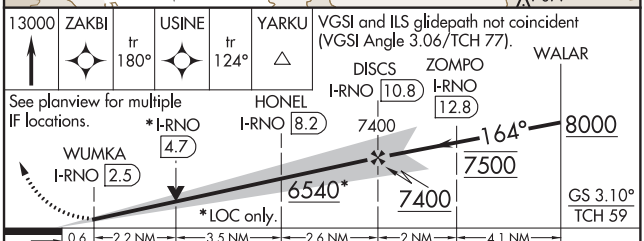
MISSED APPROACH: Climb to 13000 on the RNAV missed approach route to YARKU and hold, continue climb-in-hold to 13000.
† Missed approach requires a minimum climb of 390 feet per NM to 8000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	





MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R



CATEGORY	A	B	C	D
S-ILS 16R †	4615/24 200 (200-½)			
S-ILS 16R #	5138-1⅞ 723 (800-1⅞)			
S-LOC 16R	5420/40 1005 (1100-¾)	5420/55 1005 (1100-1)	5420-2½ 1005 (1100-2½)	
C CIRCLING	5420-1¼ 1005 (1100-1¼)	5420-1½ 1005 (1100-1½)	6480-3 2065 (2100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS Y RWY 16R
RENO/TAHOE INTL (RNO)

LOC/DME I-RNO	APP CRS	Rwy ldg	10001
110.9	164°	TDZE	4415
Chan 46		Apt Elev	4415

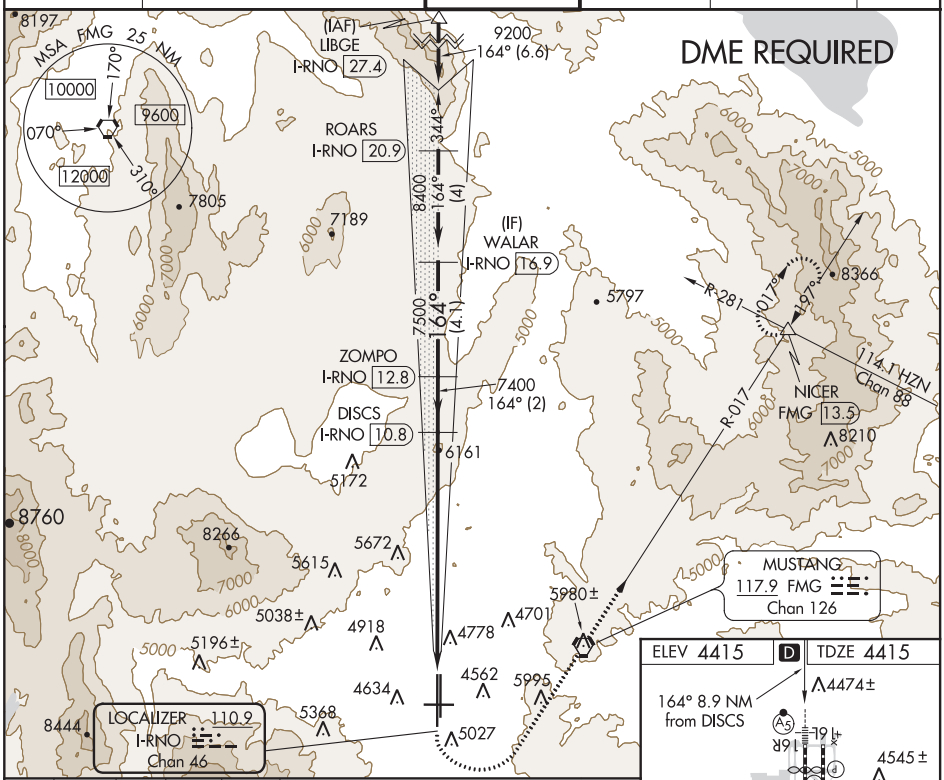
T A -15°C

Inop table does not apply.
† For inop MALSR, increase S-ILS R16R all Cats visibility to 1⅝ mile.

MALSR A5

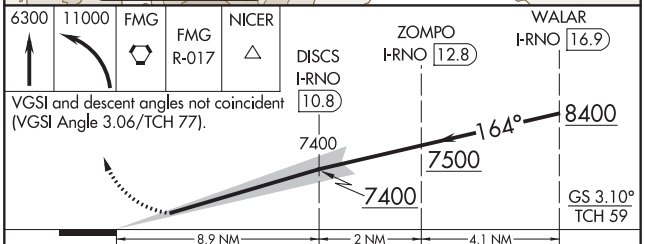
MISSED APPROACH: Climb to 6300 then climbing left turn to 11000 direct FMG VORTAC and on FMG VORTAC R-017 to NICER INT/FMG 13.5 DME and hold.
*Missed approach requires a minimum climb of 350 feet per NM to 8000.
**Missed approach requires a minimum climb of 275 feet per NM to 8000.

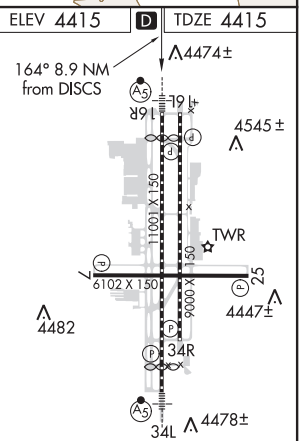
D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



6300	11000	FMG	FMG R-017	NICER

VGSI and descent angles not coincident (VGSI Angle 3.06/TCH 77).





MIRL Rwy 7-25
REIL Rwys 7, 16L, 25 and 34R
HIRL Rwys 16R-34L and 16L-34R

CATEGORY	A	B	C	D	E
S-ILS 16R * †	4915/60 500 (500-1¼)				
S-ILS 16R **#	5415-4 1000 (1000-4)				
S-ILS 16R #	5915-6 1500 (1500-6)				

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	9000
164°	TDZE	4415
	Apt Elev	4415

RNAV (RNP) Y RWY 16L

RENO/TAHOE INTL (RNO)

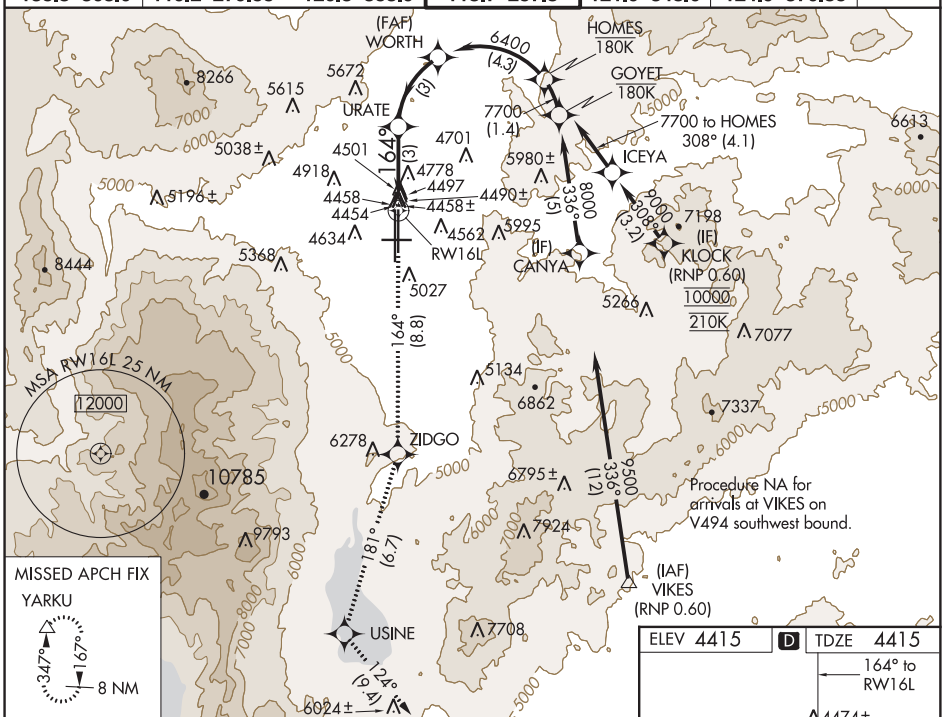
RNP AR APCH.
RF required.

For uncompensated Baro-VNAV systems, procedure NA below -14°C or above 44°C.

-15°C

MISSED APPROACH: Climb to 13000 on track 164° to ZIDGO and on track 181° to USINE and on track 124° to YARKU and hold, continue climb-in-hold to 13000.
* Missed approach requires minimum climb of 252 feet per NM to 7200.

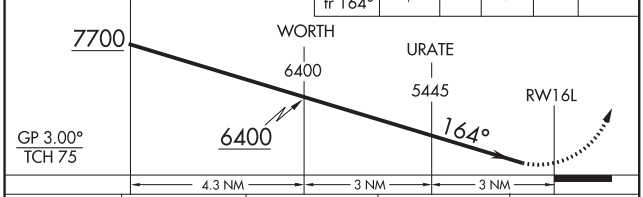
D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



MISSED APCH FIX
YARKU
347°
167°
8 NM

See planview for multiple IF locations.

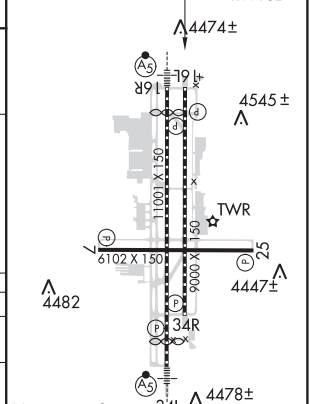
13000	ZIDGO	USINE	YARKU
tr 164°	tr 181°	tr 124°	



CATEGORY	A	B	C	D
RNP 0.12 DA*	4792-1⅛ 377 (400-1⅛)			
RNP 0.30 DA	5127-2½ 712 (800-2½)			

AUTHORIZATION REQUIRED

ELEV 4415 D TDZE 4415



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10001
164°	TDZE	4415
	Apt Elev	4415

RNAV (RNP) Y RWY 16R

RENO/TAHOE INTL (RNO)

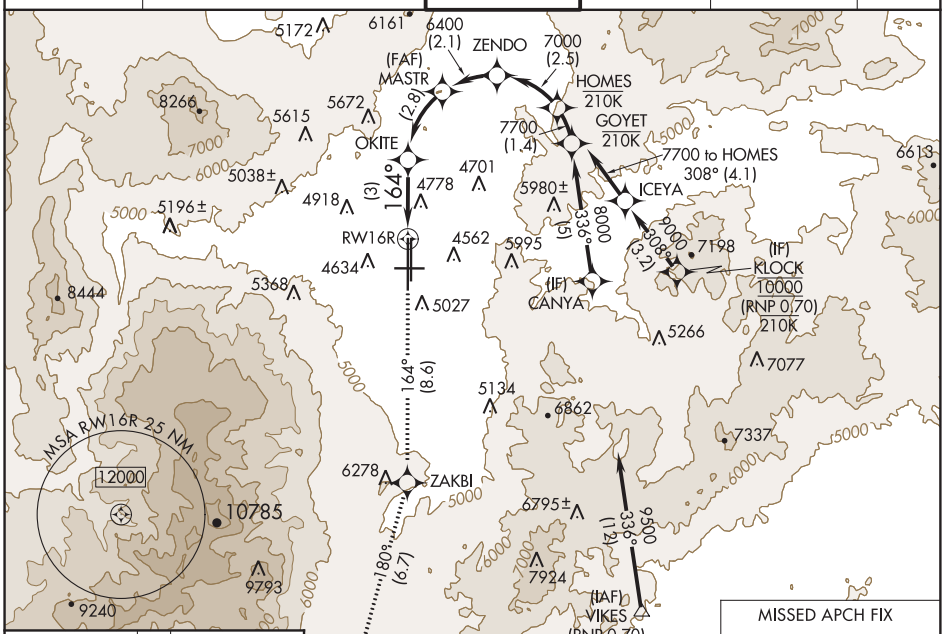
-15°C

For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 36°C (98°F). For inoperative MALSR, increase RNP 0.17 all Cats visibility to 1¼ and RNP 0.30 all Cats visibility to 2½. RF required. GPS required. *Missed approach requires a minimum climb of 260 feet per NM to 7000.

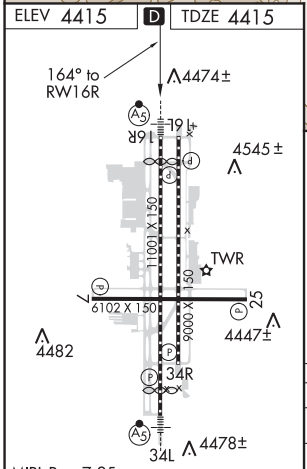
MALSR

MISSED APPROACH: Climb to 13000 on track 164° to ZAKBI and on track 180° to USINE and on track 124° to YARKU and hold, continue climb-in-hold to 13000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



ELEV 4415	D	TDZE 4415

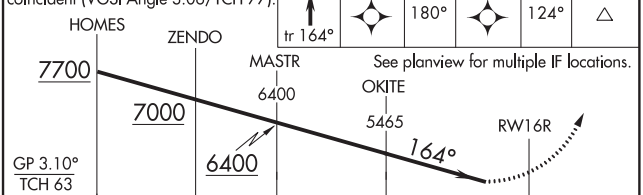


MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R

VGSI and RNAV glidepath not coincident (VGSI Angle 3.06/TCH 77).

13000	ZAKBI	tr 180°	USINE	tr 124°	YARKU
tr 164°					

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.17 DA*	4817/40 402 (500-¾)			
RNP 0.30 DA	5132-1⅞ 717 (800-1⅞)			

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA | AL-346 (FAA) | 20086

RNAV (RNP) Z RWY 16L

RENO/TAHOE INTL (RNO)

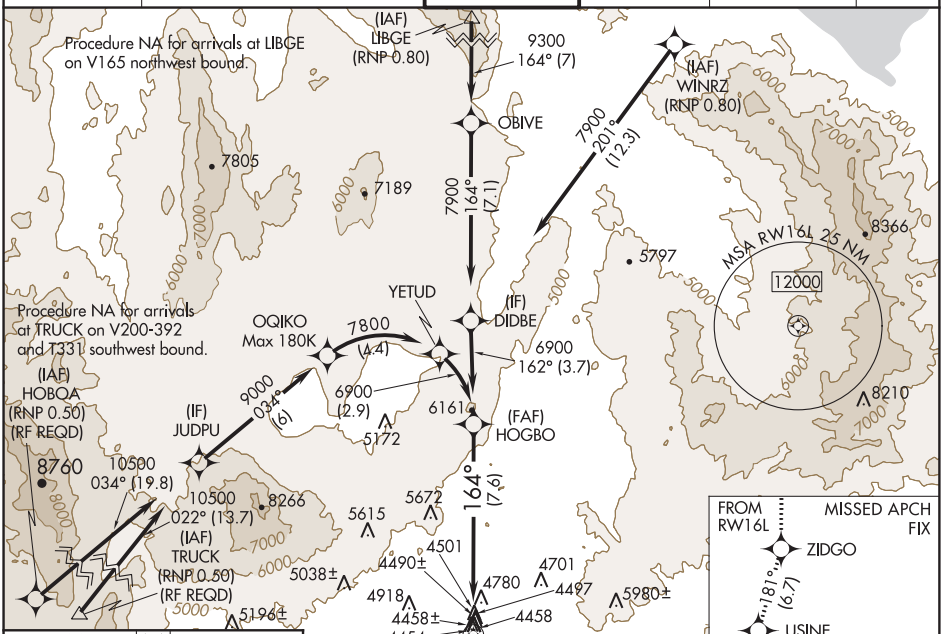
APP CRS	Rwy ldg	9000
164°	TDZE	4415
	Apt Elev	4415

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). When VGSI inop, procedure NA at night. GPS required. *Missed approach requires a minimum climb of 259 feet per NM to 7000.

-15°C

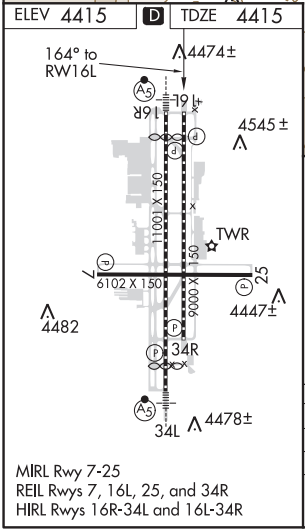
MISSED APPROACH: Climb to 13000 on track 164° to ZIDGO and on track 181° to USINE and on track 124° to YARKU and hold, continue climb-in-hold to 13000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	

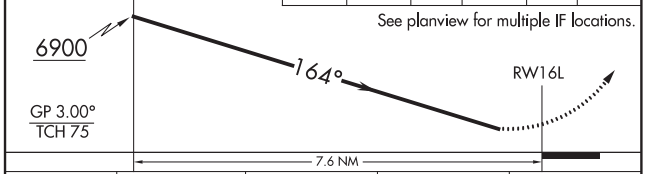


13000	ZIDGO	tr 181°	USINE	tr 124°	YARKU
tr 164°					

See planview for multiple IF locations.



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R



CATEGORY	A	B	C	D
RNP 0.12 DA*	4796-1⅛	381 (400-1⅛)		NA
RNP 0.30 DA	5133-2½	718 (800-2½)		NA

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10001
164°	TDZE	4415
	Apt Elev	4415

RNAV (RNP) Z RWY 16R

RENO/TAHOE INTL (RNO)

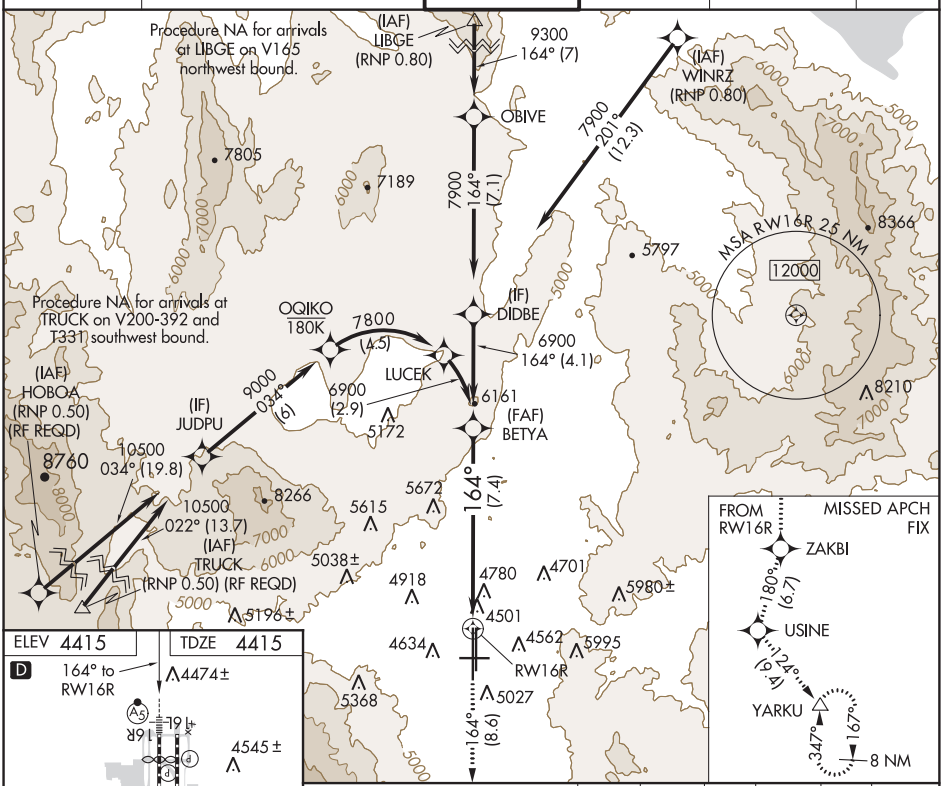
For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). For inoperative MALSR, increase RNP 0.17 all Cats visibility to 1¾ and RNP 0.30 all Cats visibility to 2½. GPS required. *Missed approach requires a minimum climb of 260 feet per NM to 7000.

-15°C

MALSR

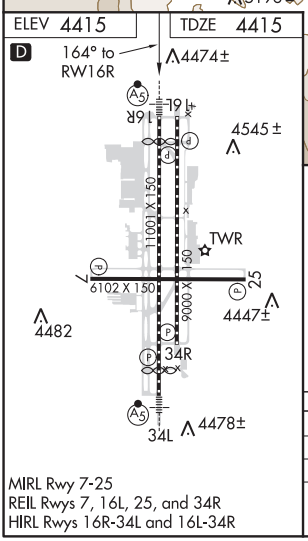
MISSED APPROACH: Climb to 13000 on track 164° to ZAKBI and on track 180° to USINE and on track 124° to YARKU and hold, continue climb-in-hold to 13000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	

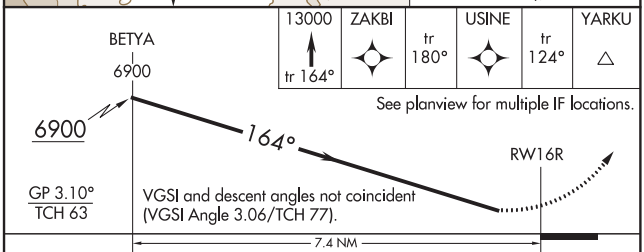


13000	ZAKBI	tr 180°	USINE	tr 124°	YARKU
tr 164°					

See planview for multiple IF locations.



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R



CATEGORY	A	B	C	D
RNP 0.17 DA*	4973-1⅜ 558 (600-1⅜)			NA
RNP 0.30 DA	5142-1⅞ 727 (800-1⅞)			NA

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10011
344°	TDZE	4410
	Apt Elev	4415

RNAV (RNP) Z RWY 34L

RENO/TAHOE INTL (RNO)

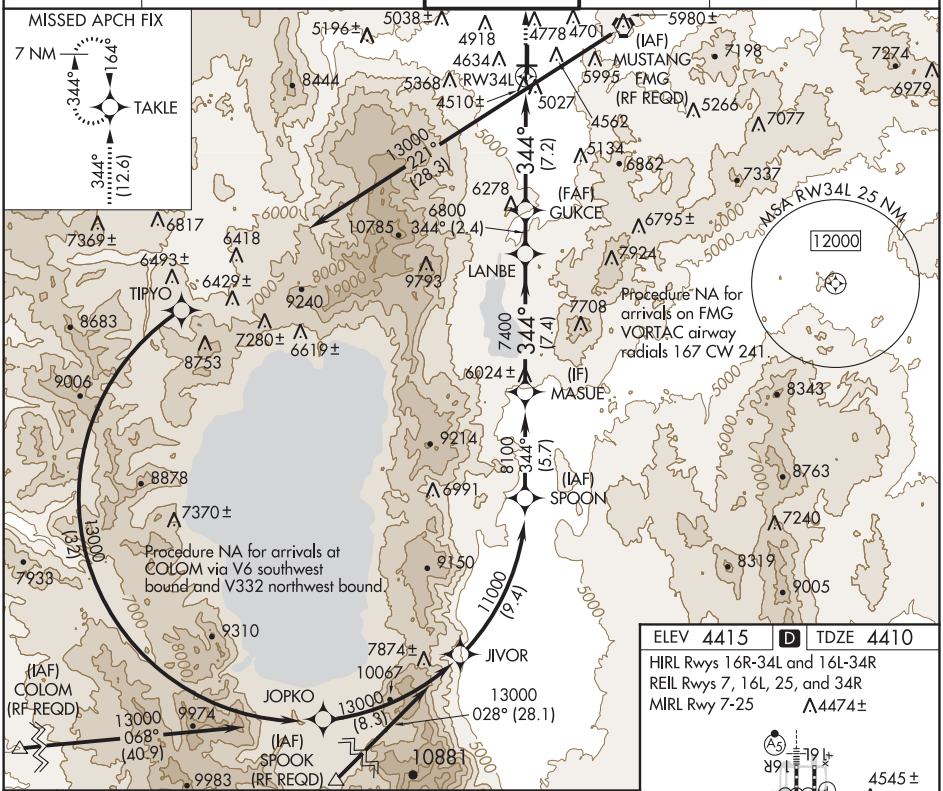
NA -15°C

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (8°F) or above 40°C (104°F). For inoperative MALSR increase visibility RNP 0.12 to 1¼ mile and RNP 0.30 to 4 miles.
*Missed approach requires minimum climb of 243 feet per NM to 7200.

MALSR

MISSED APPROACH: Climb to 10000 via 344° track to TAKLE and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	

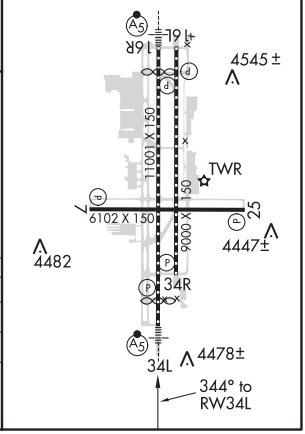


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 4415 | D | TDZE 4410

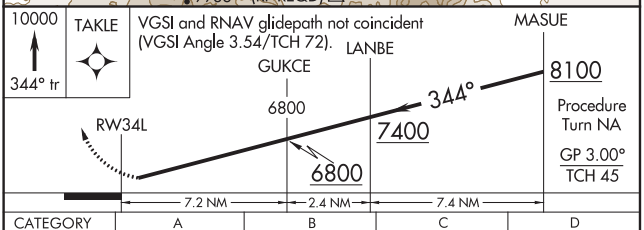
HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25



10000 344° tr

TAKLE

VGSI and RNAV glidepath not coincident (VGSI Angle 3.54/TCH 72).



CATEGORY	A	B	C	D
RNP 0.12 DA*	4771-1 361 (400-1)			
RNP 0.30 DA	5342-2¾ 932 (1000-2¾)			

AUTHORIZATION REQUIRED

APP CRS	Rwy ldg	9000
344°	TDZE	4408
	Apt Elev	4415

RNAV (RNP) Z RWY 34R

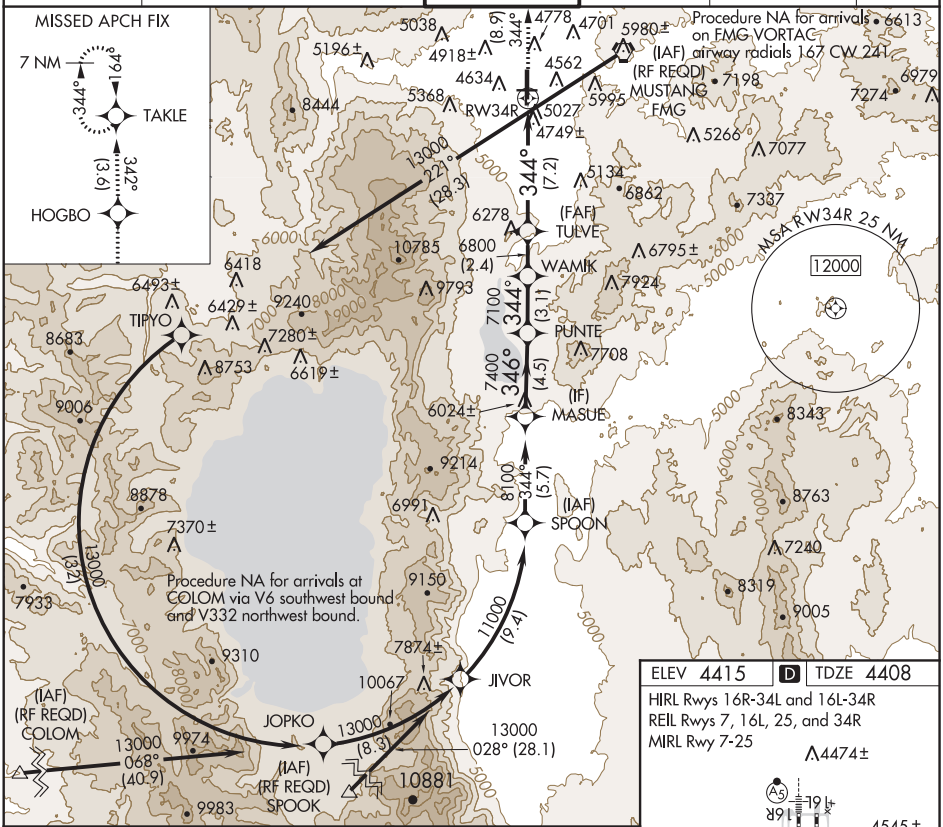
RENO/TAHOE INTL (RNO)

NA
-15°C

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (8°F) or above 40°C (105°F).

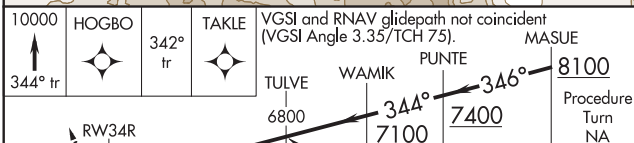
MISSED APPROACH: Climb to 10000 via 344° track to HOGBO and 342° track to TAKLE and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



10000	HOGBO	342° tr	TAKLE
344° tr			

VGSI and RNAV glidepath not coincident (VGSI Angle 3.35/TCH 75).

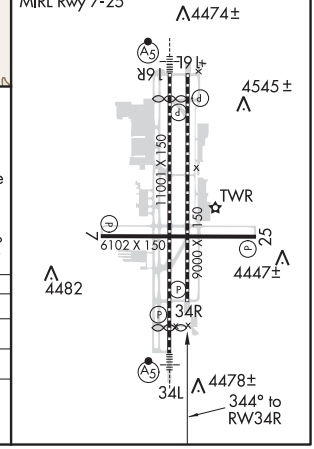


CATEGORY	A	B	C	D
RNP 0.15 DA	5173-2¾ 765 (800-2¾)			
RNP 0.30 DA	5344-4 936 (1000-4)			

AUTHORIZATION REQUIRED

ELEV 4415 | D | TDZE 4408

HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25



SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 72909 W16A	APP CRS 164°	Rwy ldg 9000 TDZE 4415 Apt Elev 4415

RNAV (GPS) X RWY 16L

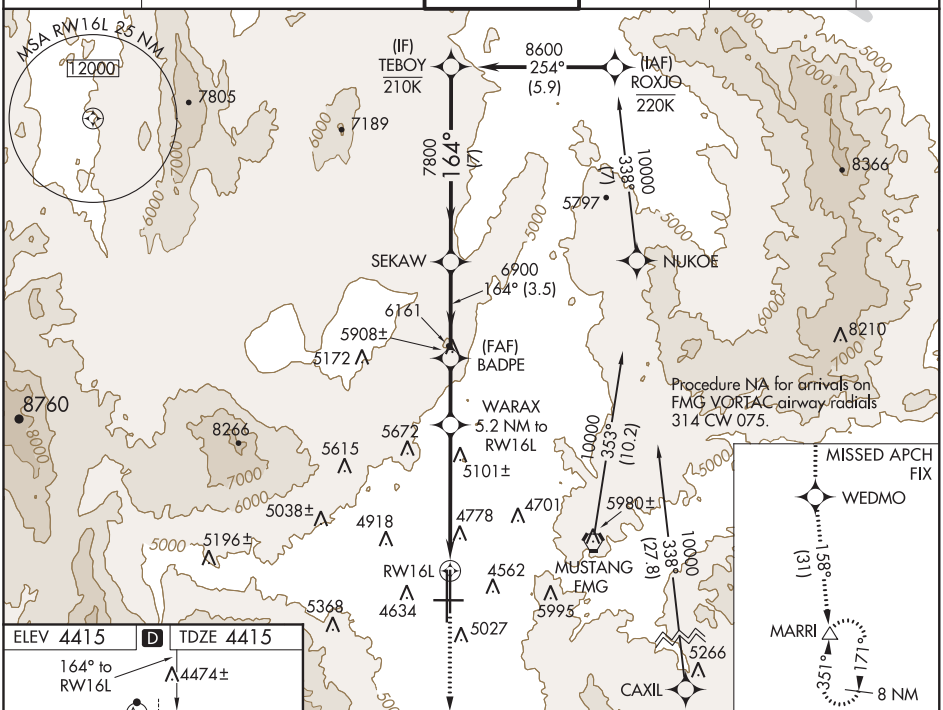
RENO/TAHOE INTL (RNO)

RNP APCH.

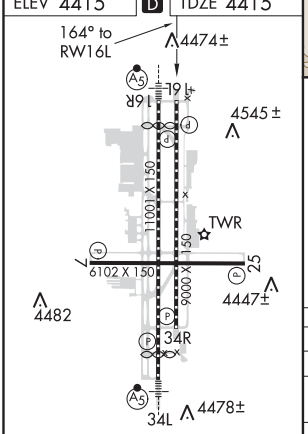
Circling Rwy 7 NA at night. Rwy 16L helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -9°C or above 54°C. -15°C

MISSED APPROACH: Climb to 13000 direct WEDMO and on track 158° to MARRI and hold.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	

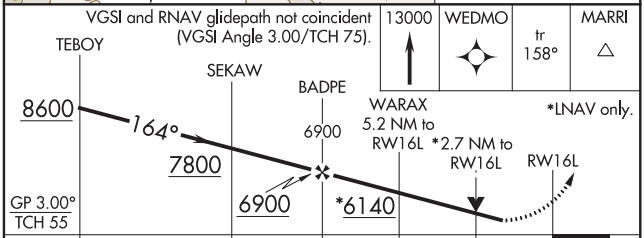


ELEV 4415 | D | TDZE 4415



MIRL Rwy 7-25
REIL Rwys 7, 16L, 25, and 34R
HIRL Rwys 16R-34L and 16L-34R

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).



CATEGORY	A	B	C	D
LPV DA	5149-2 734 (800-2)			
LNAV/VNAV DA	5098-2 683 (700-2)			
LNAV MDA	5360-1¼ 945 (1000-1¼)		5360-2½ 945 (1000-2½)	
C CIRCLING	5360-1¼ 945 (1000-1¼)		6460-3 2045 (2100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

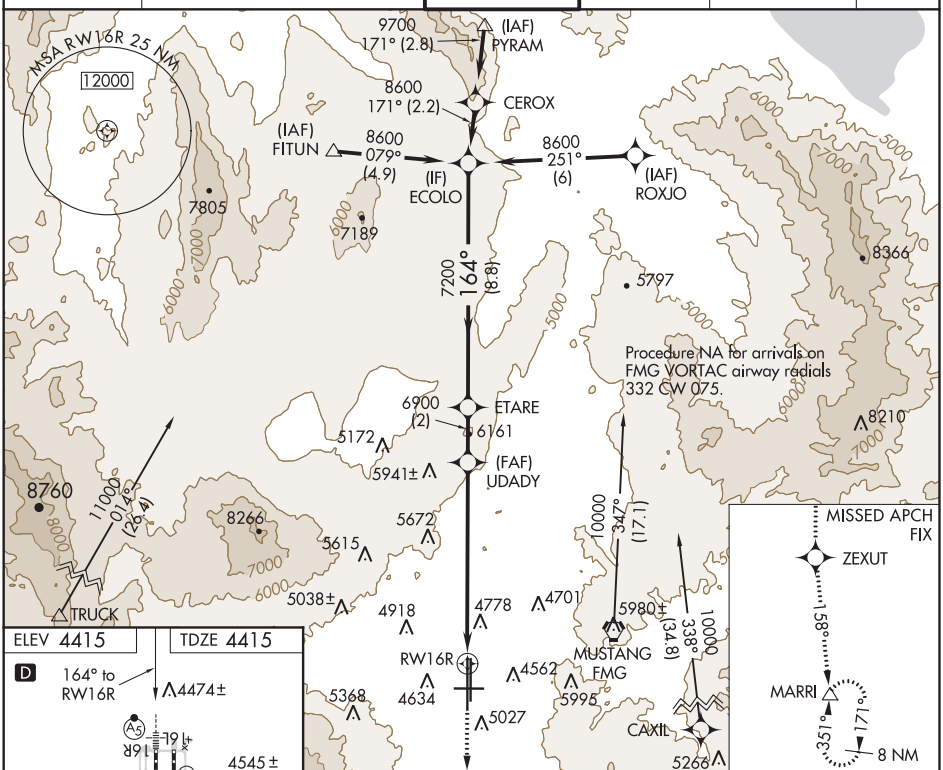
WAAS CH 78309 W16B	APP CRS 164°	Rwy ldg 10001 TDZE 4415 Apt Elev 4415

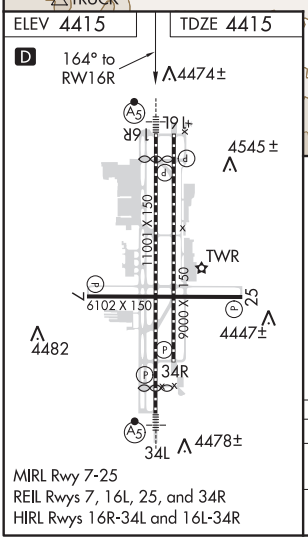
RNAV (GPS) X RWY 16R

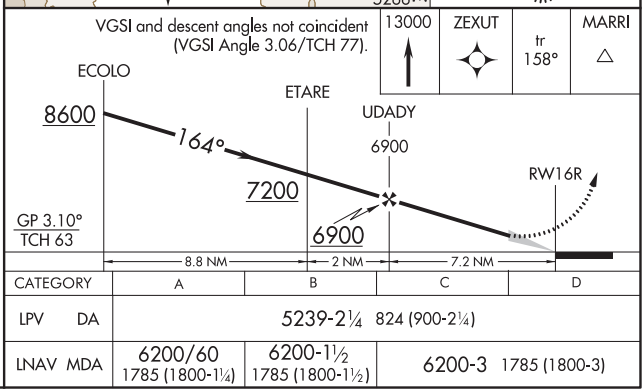
RENO/TAHOE INTL (RNO)

RNP APCH.	MALSR	
Inoperative table does not apply to LNAV all Cats. For inoperative MALSR increase LPV all Cats visibility to 2¾. -15°C	A5	MISSED APPROACH: Climb to 13000 direct ZEXUT and on track 158° to MARRI and hold.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	







CATEGORY	A	B	C	D
LPV DA	5239-2¼ 824 (900-2¼)			
LNAV MDA	6200/60 1785 (1800-1¼)	6200-1½ 1785 (1800-1½)	6200-3 1785 (1800-3)	

RENO, NEVADA
Amdt 1E 15AUG19
39°30'N-119°46'W
RENO/TAHOE INTL (RNO)
RNAV (GPS) X RWY 16R
379

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA | AL-346 (FAA) | 20086

APP CRS	Rwy ldg	10011
344°	TDZE	4410
	Apt Elev	4415

RNAV (GPS) X RWY 34L

RENO/TAHOE INTL (RNO)

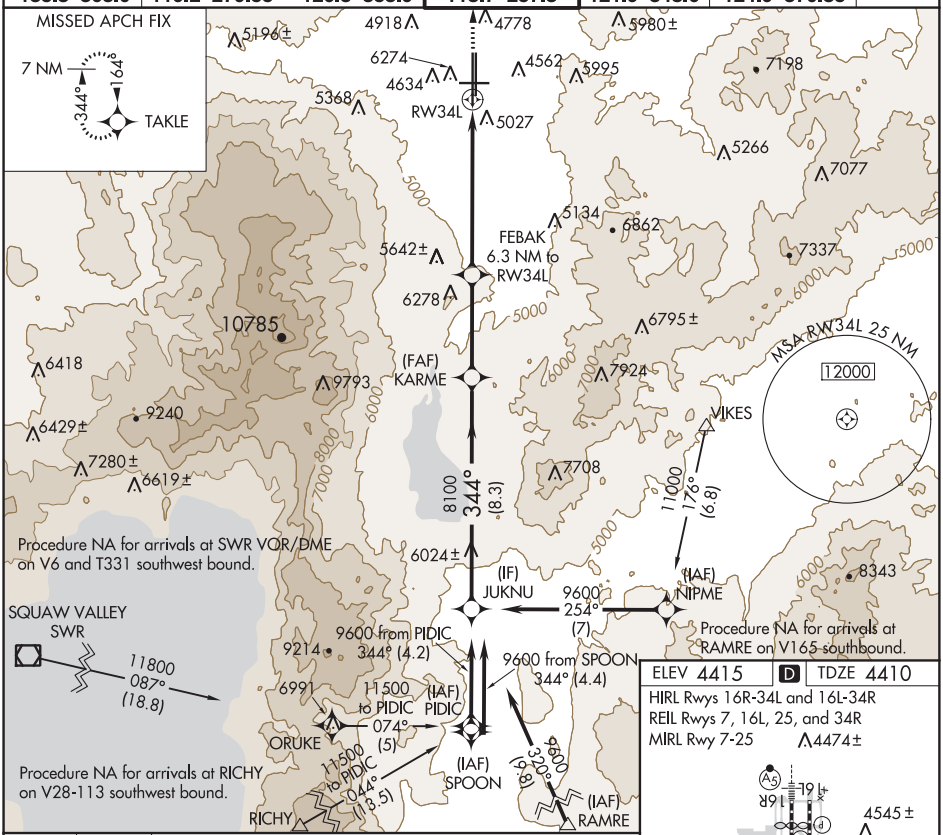
Circling to Rwy 7 NA at night. DME/DME RNP-0.3 NA. For inoperative MALSR increase LNAV Cat A and B visibility to 1¼.

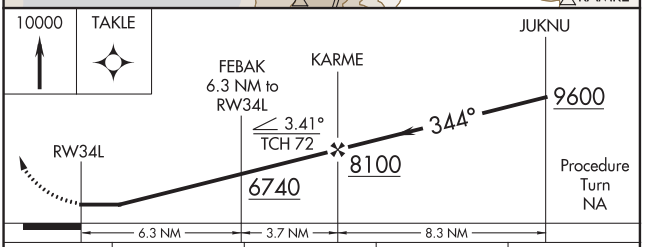
-15°C

MALSR

MISSED APPROACH: Climb to 10000 direct TAKLE and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	

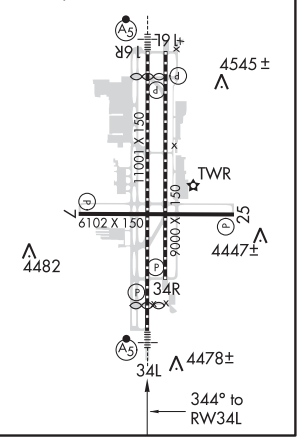




CATEGORY	A	B	C	D
LNAV MDA	5300-1 890 (900-1)		5300-2¼ 890 (900-2¼)	5300-2½ 890 (900-2½)
CIRCLING	5340-1¼ 925 (1000-1¼)		5340-2¾ 925 (1000-2¾)	5340-3 925 (1000-3)

ELEV 4415 | D | TDZE 4410

HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	9000
344°	TDZE	4408
	Apt Elev	4415

RNAV (GPS) X RWY 34R

RENO/TAHOE INTL (RNO)

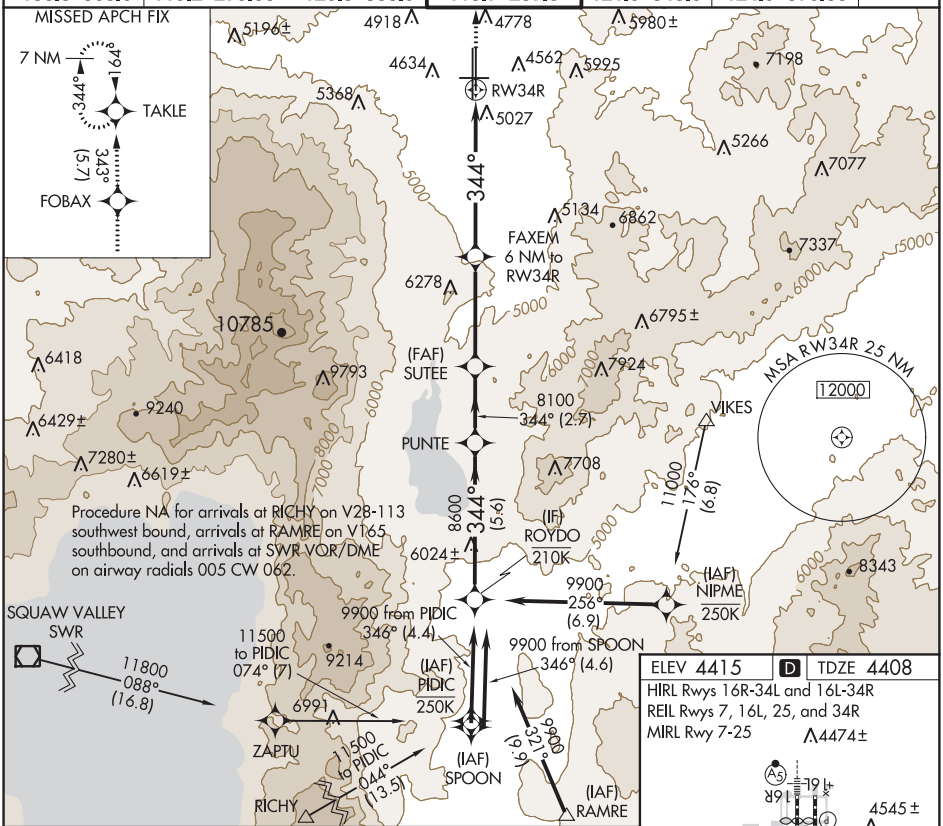
RNP APCH.

Circling Rwy 7 NA at night. Rwy 34R helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA.

-15°C

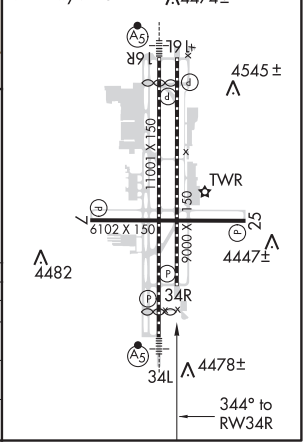
MISSED APPROACH: Climb to 11000 direct FOBAX and on track 343° to TAKLE and hold, continue climb-in-hold to 11000.
Missed approach requires minimum climb of 250 feet per NM to 5600.

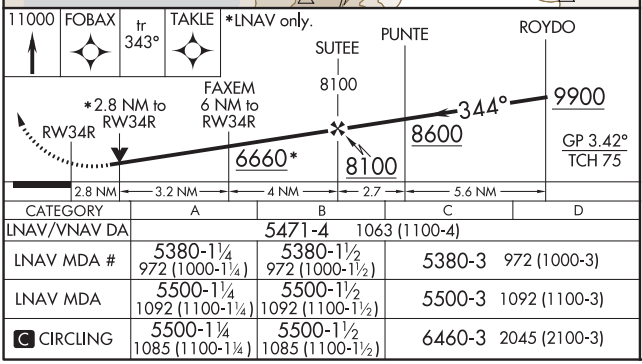
D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



ELEV 4415 | D | TDZE 4408

HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25





CATEGORY	A	B	C	D
LNAV/VNAV DA	5471-4 1063 (1100-4)			
LNAV MDA #	5380-1¼ 972 (1000-1¼)	5380-1½ 972 (1000-1½)	5380-3 972 (1000-3)	
LNAV MDA	5500-1¼ 1092 (1100-1¼)	5500-1½ 1092 (1100-1½)	5500-3 1092 (1100-3)	
C CIRCLING	5500-1¼ 1085 (1100-1¼)	5500-1½ 1085 (1100-1½)	6460-3 2045 (2100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA | AL-346 (FAA) | 20086

RNAV (GPS) Y RWY 34L
RENO/TAHOE INTL (RNO)

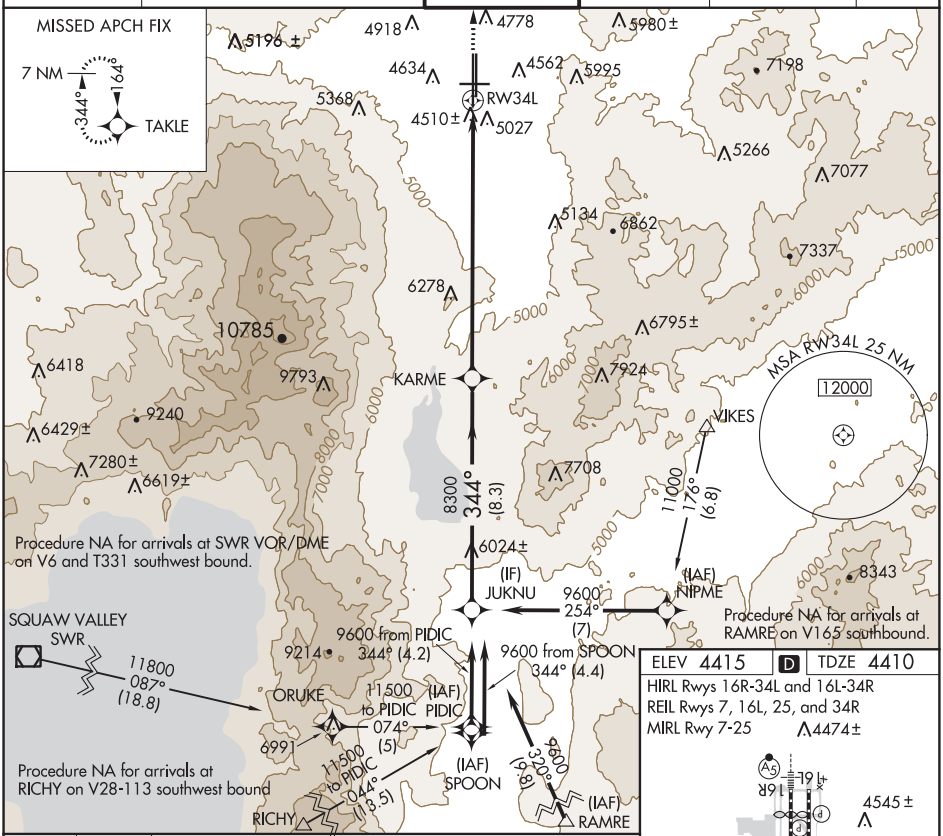
WAAS CH 82609 W34A	APP CRS 344°	Rwy ldg 10011 TDZE 4410 Apt Elev 4415

DME/DME RNP- 0.3 NA.
-15°C For inoperative MALSR increase LPV all Cats visibility ½ mile.

MALSR

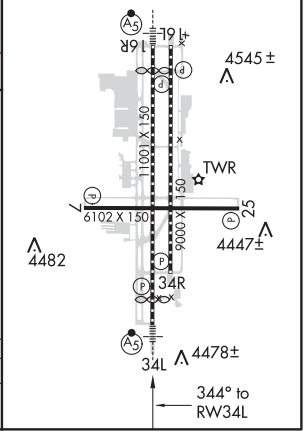
MISSED APPROACH: Climb to 10000 direct TAKLE and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



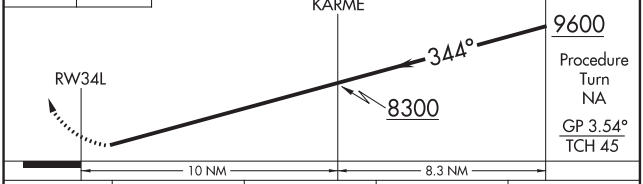
ELEV 4415 | D | TDZE 4410

HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25



10000 | TAKLE

VGSI and RNAV glidepath not coincident (VGSI Angle 3.54/TCH 72).



CATEGORY	A	B	C	D
LPV DA	5018-1¼ 608 (700-1¼)			NA

RENO, NEVADA
Orig-B 01FEB18

39°30'N-119°46'W

RENO/TAHOE INTL (RNO)
RNAV (GPS) Y RWY 34L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 40409 W34B	APP CRS 344°	Rwy ldg 9000 TDZE 4408 Apt Elev 4415

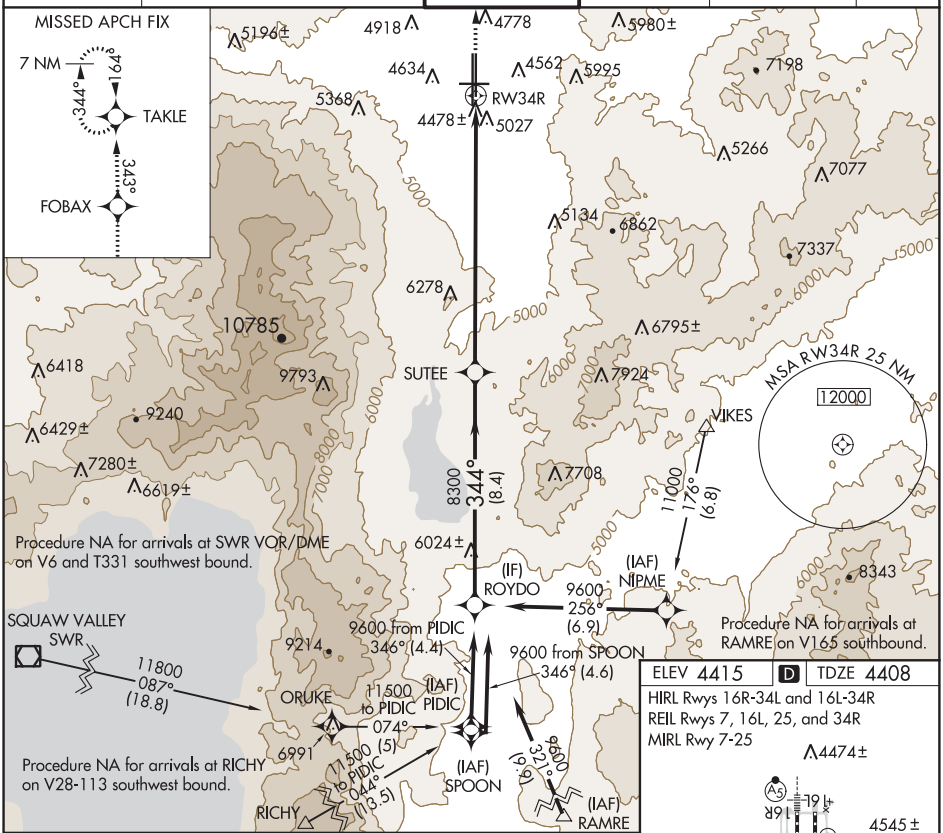
RNAV (GPS) Y RWY 34R

RENO/TAHOE INTL (RNO)

-15°C DME/DME RNP- 0.3 NA.

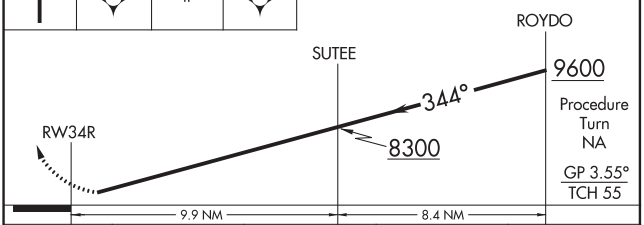
MISSED APPROACH: Climb to 10000 direct FOBAX and via 343° track to TAKLE and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



10000	FOBAX	343° tr	TAKLE

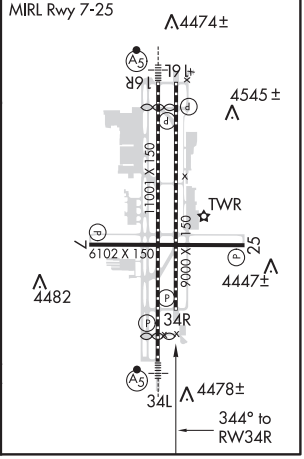
VGSI and RNAV glidepath not coincident (VGSI Angle 3.35/TCH 75).



CATEGORY	A	B	C	D
LPV DA	5043-2 635 (700-2)			NA

ELEV 4415 D TDZE 4408

HIRL Rwys 16R-34L and 16L-34R
REIL Rwys 7, 16L, 25, and 34R
MIRL Rwy 7-25



SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA

AL-346 (FAA)

20086

LOC Y RWY 16R
RENO/TAHOE INTL(RNO)

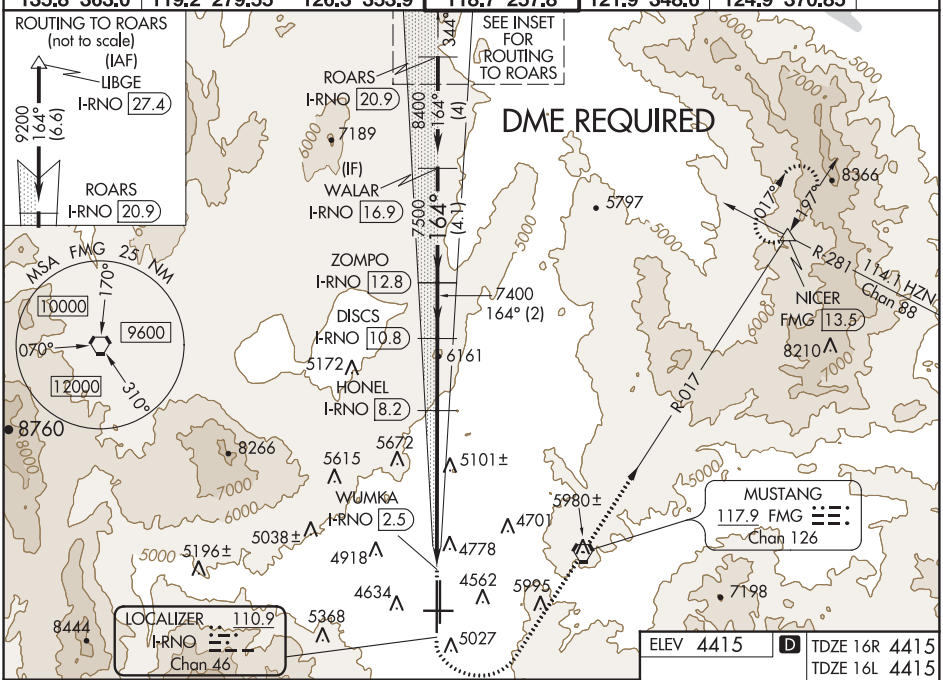
LOC/DME I-RNO	APP CRS		16R	16L
110.9	164°	Rwy ldg	10001	9000
Chan 46		TDZE	4415	4415
		Apt Elev	4415	4415

Circling NA for Cat E southwest of Rwys 7 and 34L. Circling Rwy 7 NA at night. For inop MALSR, increase S-LOC 16R* Cat E visibility to 3 miles.
Inop table does not apply to Cats C, D, E.
-15°C

MALSR 16R

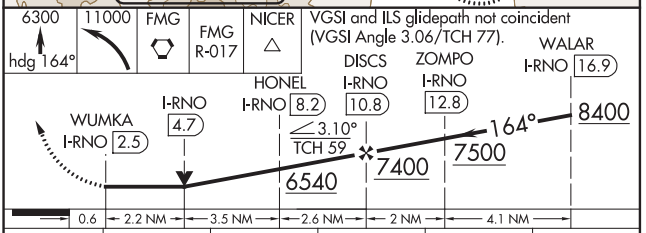
MISSED APPROACH: Climb to 6300 on heading 164° then climbing left turn 11000 direct FMG VORTAC and on FMG VORTAC R-017 to NICER INT and hold, continue climb-in-hold to 11000.
*Missed approach requires a minimum climb of 320 feet per NM to 8000.
† Missed approach requires a minimum climb of 260 feet per NM to 8000.

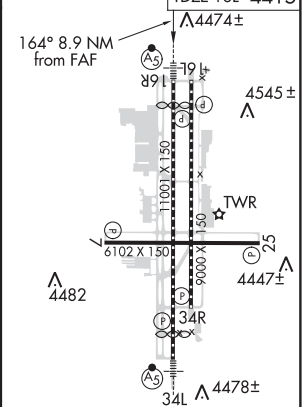
D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	



6300	11000	FMG	FMG R-017	NICER
hdg 164°				

VGSI and ILS glidepath not coincident (VGSI Angle 3.06/TCH 77).





CATEGORY	A	B	C	D	E
S-LOC 16R *	5420/40 1005 (1100-¾)	5420/55 1005 (1100-1)	5420-2½ 1005 (1100-2½)		
S-LOC 16R †#	5720/40 1305 (1400-¾)	5720/55 1305 (1400-1)	5720-3 1305 (1400-3)		
S-LOC 16R #	5920/40 1505 (1600-¾)	5920/55 1505 (1600-1)	5920-3 1505 (1600-3)		6180-3 1765 (1800-3)
SIDESTEP 16L * #	5420-1¼ 1005 (1100-1¼)	5420-1½ 1005 (1100-1½)	5420-3 1005 (1100-3)		
C CIRCLING	5920-1¼ 1505 (1600-1¼)	5920-1½ 1505 (1600-1½)	6480-3 2065 (2100-3)		6700-3 2285 (2300-3)

MIRL Rwy 7-25
REIL Rwys 7, 16L, 25 and 34R
HIRL Rwys 16R-34L and 16L-34R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC FMG 117.9 Chan 126	APP CRS 239°	Rwy ldg N/A TDZE N/A Apt Elev 4415

VOR-D

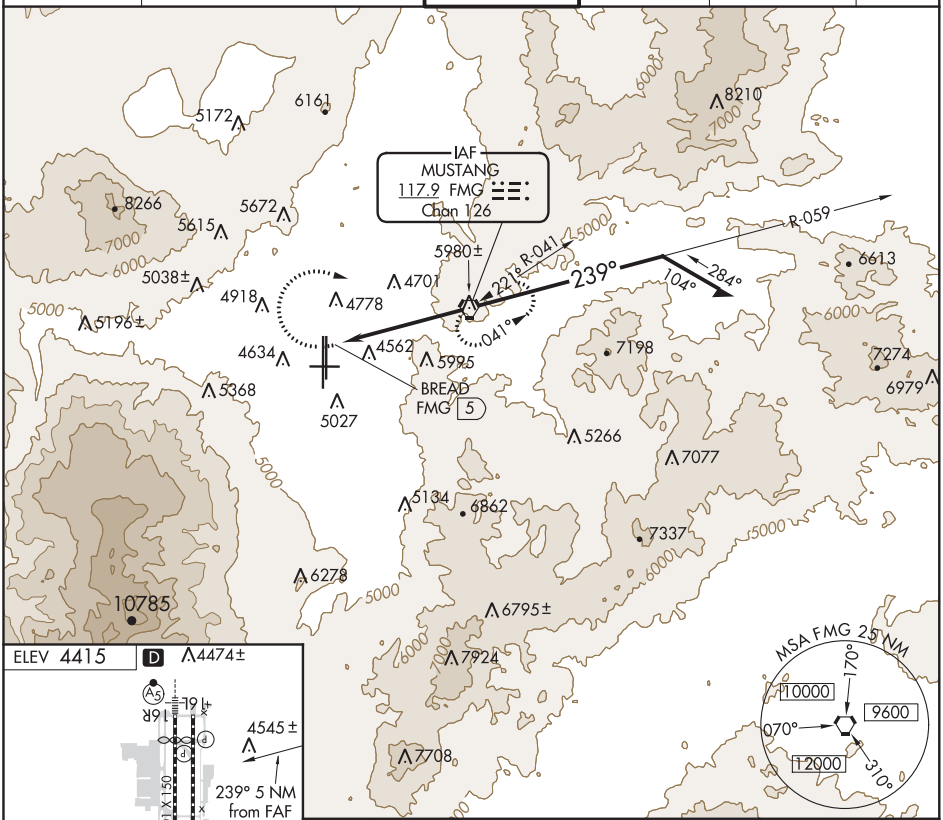
RENO/TAHOE INTL (RNO)

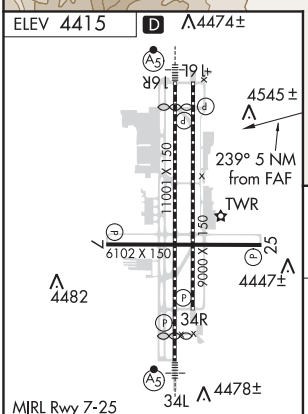
-15°C

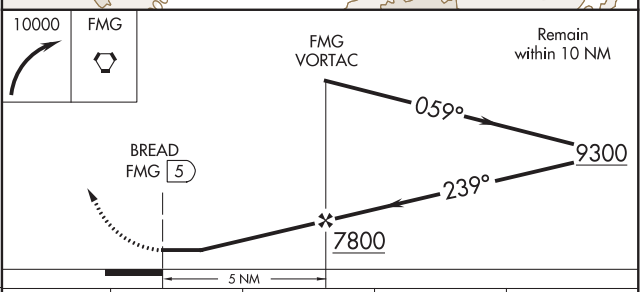
Circling Rwy 7 NA at night.

MISSED APPROACH: Climbing right turn to 10000 direct FMG VORTAC and hold, continue climb-in-hold to 10000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	







FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

CATEGORY	A	B	C	D
CIRCLING	6000-1¼ 1585 (1600-1¼)	6000-1½ 1585 (1600-1½)	6000-3 1585 (1600-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA AL-346 (FAA) 20310

TACAN-F

RENO/TAHOE INTL (RNO)

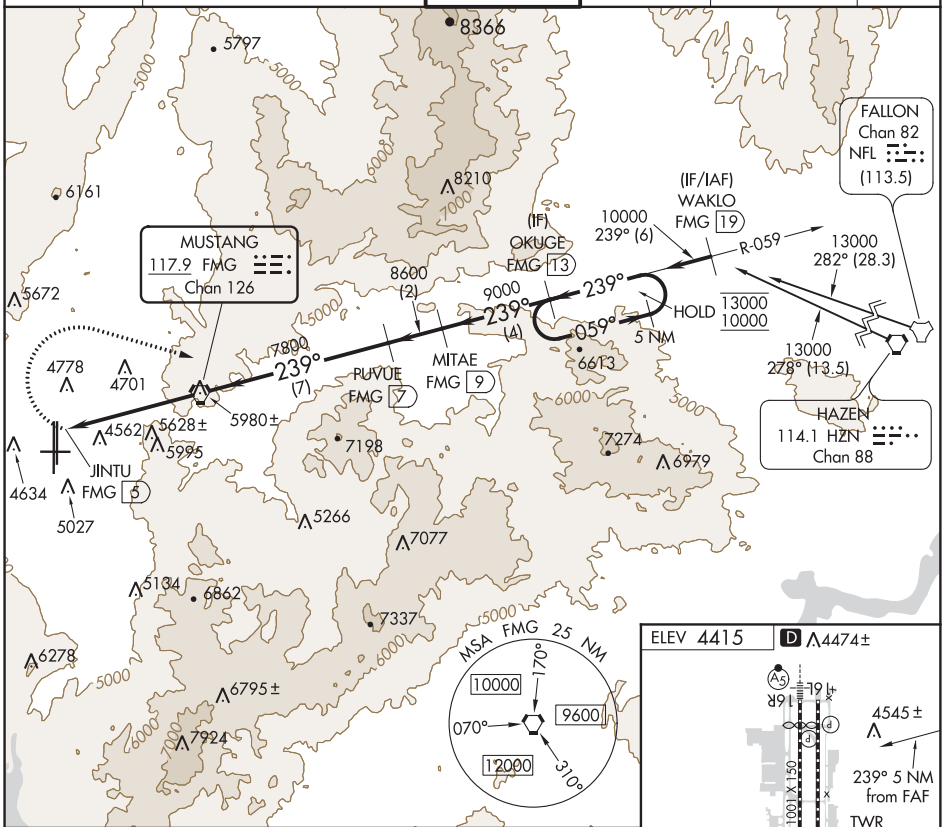
VORTAC FMG	APP CRS	Rwy ldg	N/A
117.9	239°	TDZE	N/A
Chan 126		Apt Elev	4415

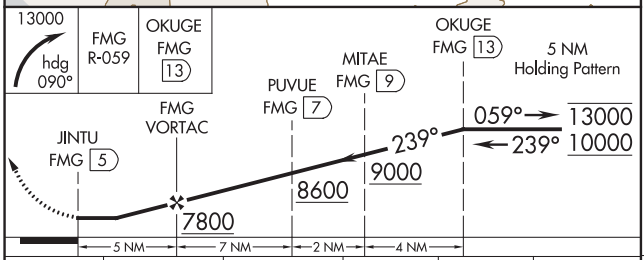
T A -15°C

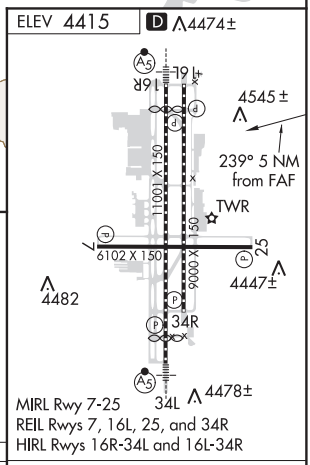
Circling NA for Cat E south of Rwy 7 and west of 34L. Circling Rwy 7 NA at night. Approaches RADAR monitored by NORCAL APP CON. Arrivals from east and aircraft on missed approach may be vectored to final. Circling NA for Cat E to Rwys 7 and 25.

MISSED APPROACH: Climbing right turn to 13000 on heading 090° and FMG R-059 to OKUGE/13 DME and hold, continue climb-in-hold to 13000.

D-ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL	CPDLC
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85	







CATEGORY	A	B	C	D	E
C CIRCLING	5960-1¼ 1545 (1600-1¼)	5960-1½ 1545 (1600-1½)	6360-3	1945 (2000-3)	6440-3 2025 (2100-3)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

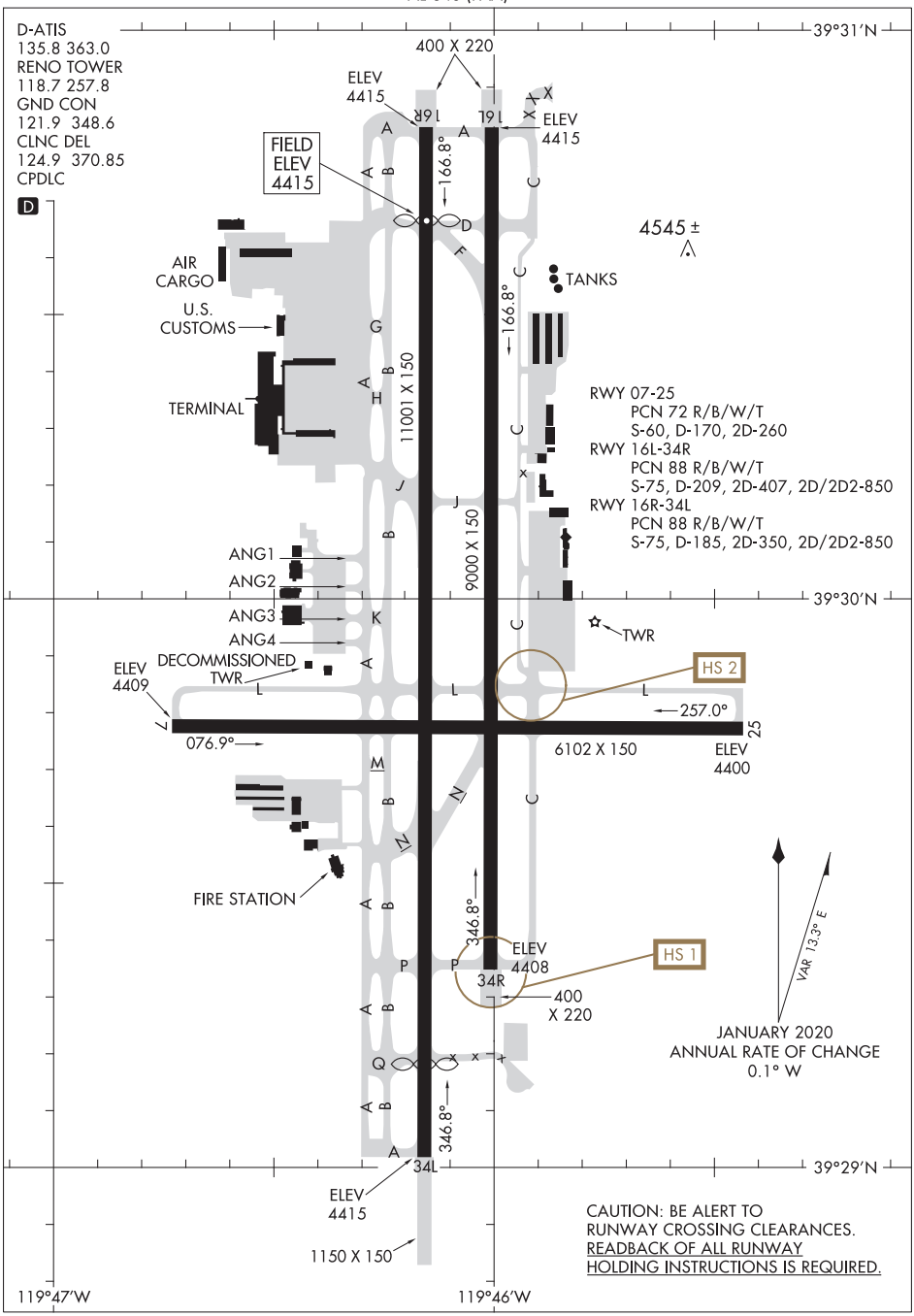
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO, NEVADA
Orig 03JAN19

39°30'N-119°46'W

RENO/TAHOE INTL (RNO)
TACAN-F



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(HNGRY3.FMG) 18088

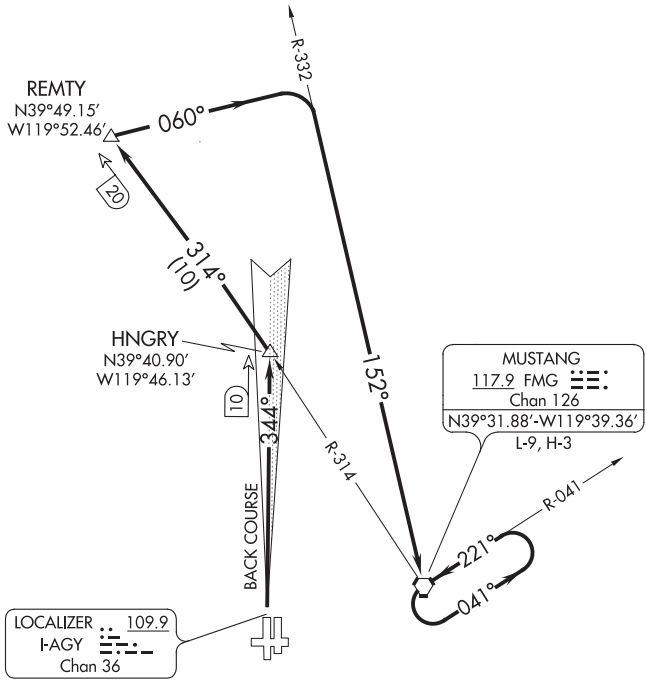
HUNGRY THREE DEPARTURE

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

TOP ALTITUDE: 10000

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
126.3 353.9



TAKEOFF MINIMUMS
Rwy 7: NA- obstacles
Rwys 16L, 16R, 25: NA-ATC.
Rwy 34L: Standard with minimum climb of 315′ per NM to 8400.
Rwy 34R: Standard with minimum climb of 480′ per NM to 8400,
or 500-1½ with minimum climb of 315′ per NM to 8400.

NOTE: DME required.

NOTE: Chart not to scale.

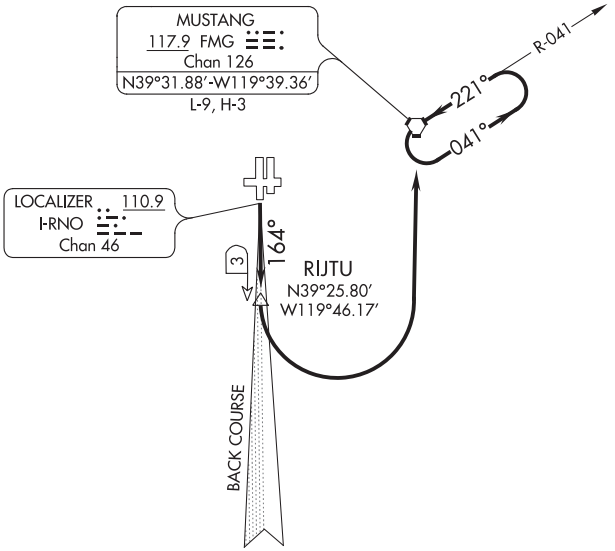
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 34L/R: Climb to 10000 or assigned altitude via I-AGY localizer north course to HNGRY INT/I-AGY 10 DME, and intercept FMG R-314 to REMTY/FMG 20 DME, and right turn heading 060° to intercept FMG R-332 to FMG VORTAC. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for route of flight. Expect clearance to requested altitude five minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: 10000

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55



TAKEOFF MINIMUMS
Rwy 7: NA- obstacles
Rwys 25, 34L/34R: NA- ATC.
Rwy 16L: Standard with minimum climb of 740′ per NM to 8000 or, 600-1¼ with minimum climb of 525′ per NM to 8000.
Rwy 16R: Standard with minimum climb of 740′ per NM to 8000 or, 600-1¼ with minimum climb of 525′ per NM to 8000.

NOTE: DME required.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb to 10000 or assigned altitude, via I-RNO south course to RIJTU/3 DME, then left turn direct FMG VORTAC. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for direction of flight. Expect clearance to requested altitude five minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(PVINE3.PVINE) 19003

PVINE THREE DEPARTURE (RNAV)

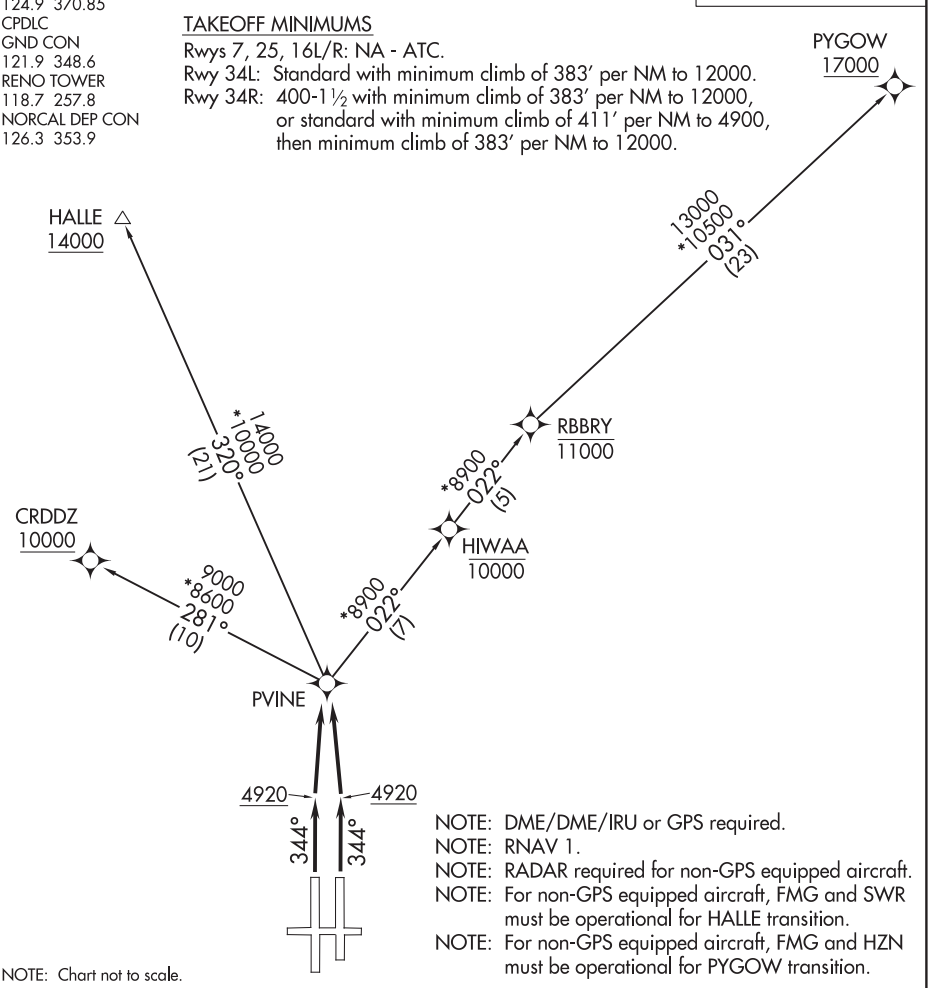
AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
126.3 353.9

TOP ALTITUDE: FL190

TAKEOFF MINIMUMS
Rwys 7, 25, 16L/R: NA - ATC.
Rwy 34L: Standard with minimum climb of 383′ per NM to 12000.
Rwy 34R: 400-1½ with minimum climb of 383′ per NM to 12000, or standard with minimum climb of 411′ per NM to 4900, then minimum climb of 383′ per NM to 12000.



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: For non-GPS equipped aircraft, FMG and SWR must be operational for HALLE transition.
NOTE: For non-GPS equipped aircraft, FMG and HZN must be operational for PYGOW transition.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 34L/R: Climb heading 344° to 4920, then direct PVINE, thence. . . .

. . . .Maintain FL190 or assigned altitude. Expect filed altitude 5 minutes after departure.

CRDDZ TRANSITION (PVINE3.CRDDZ)

HALLE TRANSITION (PVINE3.HALLE)

PYGOW TRANSITION (PVINE3.PYGOW)

SW-4, 05 NOV 2020 to 31 DEC 2020

RENO NINE DEPARTURE

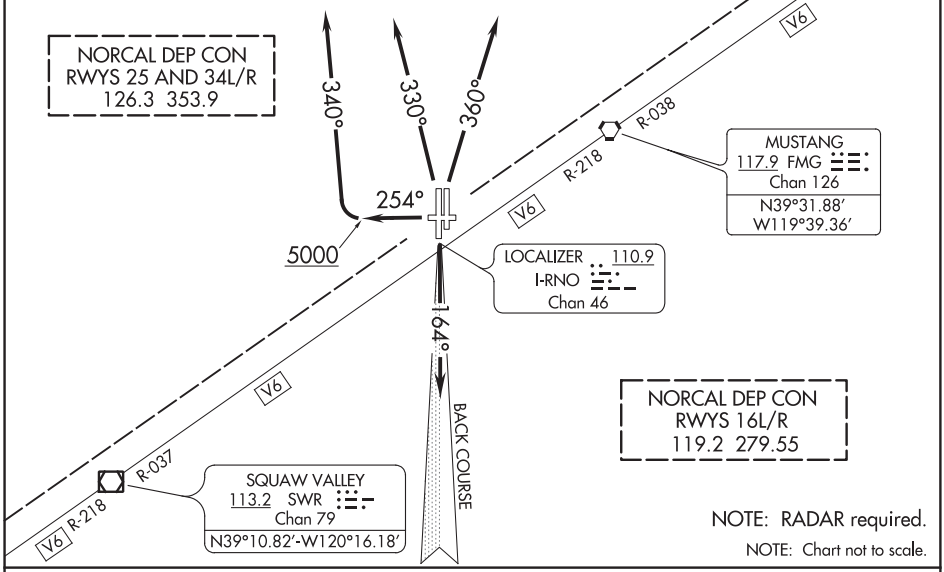
AL-346 (FAA)

TOP ALTITUDE: FL190

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8

TAKEOFF MINIMUMS

Rwy 7: NA- Obstacles.
Rwy 16L: Standard with minimum climb of 730′ per NM to 10900,
or 600-1¼ with minimum climb of 352′ per NM to 10900.
Rwy 16R: Standard with minimum climb of 460′ per NM to 10900,
or 300-1 with minimum climb of 395′ per NM to 10900.
Rwy 25: Standard with minimum climb of 500′ per NM to 9700.
Rwys 34L/R: Standard with mimimum climb of 480′ per NM to 8700,
or 500-1½ with minimum climb of 430′ per NM to 8700.



NOTE: RADAR required.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb on heading 164° and I-RNO localizer south course. Thence. . . .

TAKEOFF RUNWAY 25: Climb heading 254° to 5000 then climbing right turn heading 340°. Thence. . . .

TAKEOFF RUNWAYS 34L/R: Climb heading 330° CW 360° as assigned by ATC. Thence. . . .

. . . .All aircraft maintain FL190 or assigned altitude. Expect clearance to requested altitude 5 minutes after departure. Expect RADAR vectors to assigned route/fix.

LOST COMMUNICATIONS: If not in contact with departure control within one minute after takeoff, maintain assigned heading until passing 10000, thence. . . .

. . . .RUNWAYS 16L/R DEPARTURES: Turn left direct FMG VORTAC, then via assigned route.

. . . .RUNWAYS 25 and 34L/R DEPARTURES: Turn right direct FMG VORTAC, then via assigned route.

(SPLTM4.SPLTM) 18088

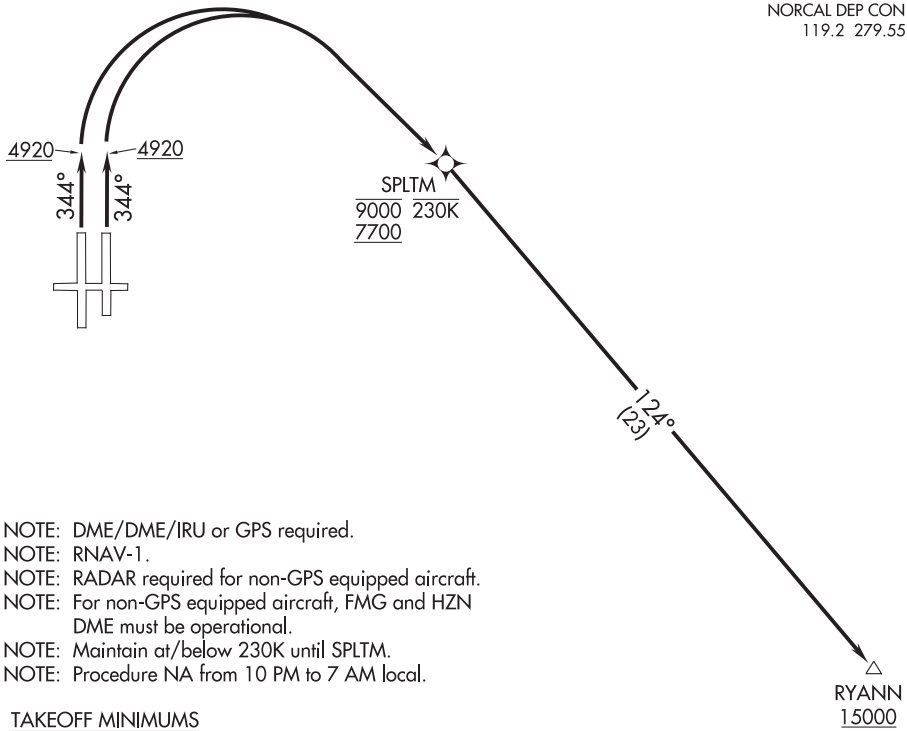
SPLTM FOUR DEPARTURE (RNAV)

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

TOP ALTITUDE: FL190

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: For non-GPS equipped aircraft, FMG and HZN DME must be operational.
NOTE: Maintain at/below 230K until SPLTM.
NOTE: Procedure NA from 10 PM to 7 AM local.

TAKEOFF MINIMUMS
Rwys 7, 25, 16L/R: NA - ATC.
Rwy 34L: Standard with minimum climb of 594′ per NM to 6700, then minimum climb of 306′ per NM to 15000.
Rwy 34R: 400-1½ with minimum climb of 613′ per NM to 6700, then minimum climb of 306′ per NM to 15000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 34L/R: Climb heading 344° to 4920, then climbing right turn direct SPLTM to cross at or above 7700/at or below 9000, then on track 124° to cross RYANN at or above 15000, thence. . . .

. . . .maintain FL190 or assigned altitude. Expect filed altitude 5 minutes after departure.

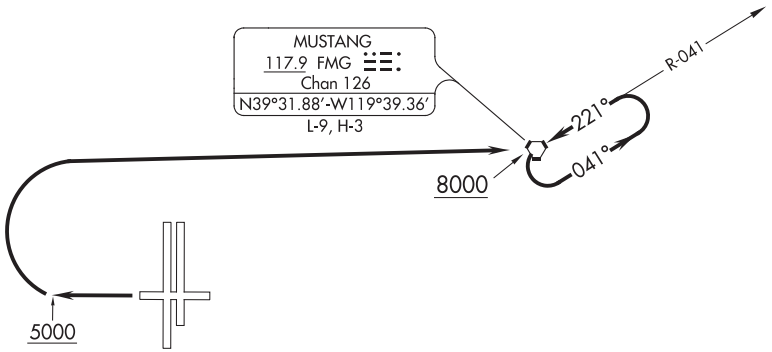
SW-4, 05 NOV 2020 to 31 DEC 2020

SPLTM FOUR DEPARTURE (RNAV)
(SPLTM4.SPLTM) 04FEB16

RENO, NEVADA
RENO/TAHOE INTL (RNO)

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
126.3 353.9

TOP ALTITUDE: 10000



TAKEOFF MINIMUMS

Rwy 7: NA- obstacles

Rwys 16L, 16R, 34L, 34R: NA- ATC.

Rwy 25: Cat A/B, do not exceed 180K until FMG VORTAC, standard with a minimum climb of 380′ per NM to 8400, ATC climb of 495′ per NM to 8000. Cat C/D: NA- Air traffic control.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

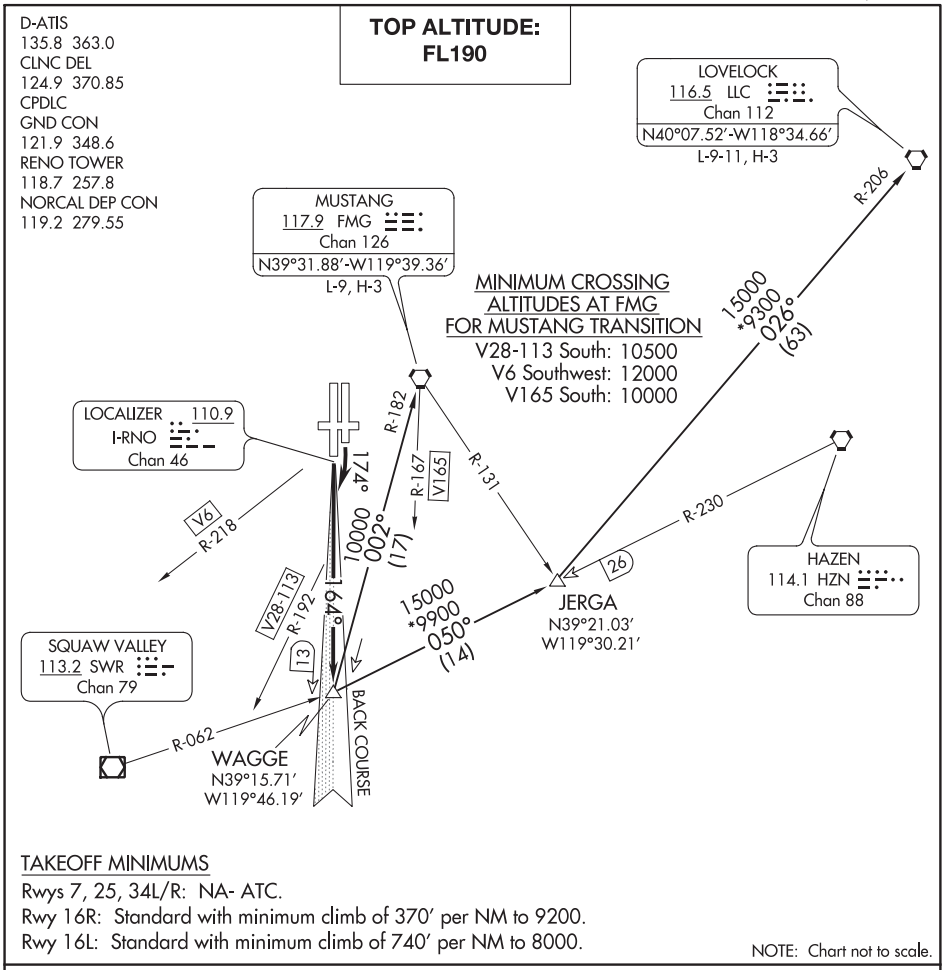
TAKEOFF RUNWAY 25: Climb to 5000, then climbing right turn to 10000 or assigned altitude direct FMG VORTAC, cross FMG VORTAC at or above 8000. Climb in FMG holding pattern to depart FMG VORTAC at or above MEA/MCA for direction of flight. Expect clearance to requested altitude five minutes after departure.

(WAGGE6.WAGGE) 18088

WAGGE SIX DEPARTURE

AL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA



TAKEOFF MINIMUMS

Rwys 7, 25, 34L/R: NA- ATC.
Rwy 16R: Standard with minimum climb of 370′ per NM to 9200.
Rwy 16L: Standard with minimum climb of 740′ per NM to 8000.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16R: Climb on I-RNO south course to WAGGE INT, thence via (transition) or assigned route.

TAKEOFF RUNWAY 16L: Climbing right turn heading 174° to intercept I-RNO south course to WAGGE INT, thence via (transition) or assigned route.

All aircraft maintain FL190 or assigned altitude. Expect clearance to requested altitude 5 minutes after departure.

LOVELOCK TRANSITION (WAGGE6.LLC): From over WAGGE INT via HZN R-230 to JERGA INT then via LLC R-206 to LLC VORTAC.

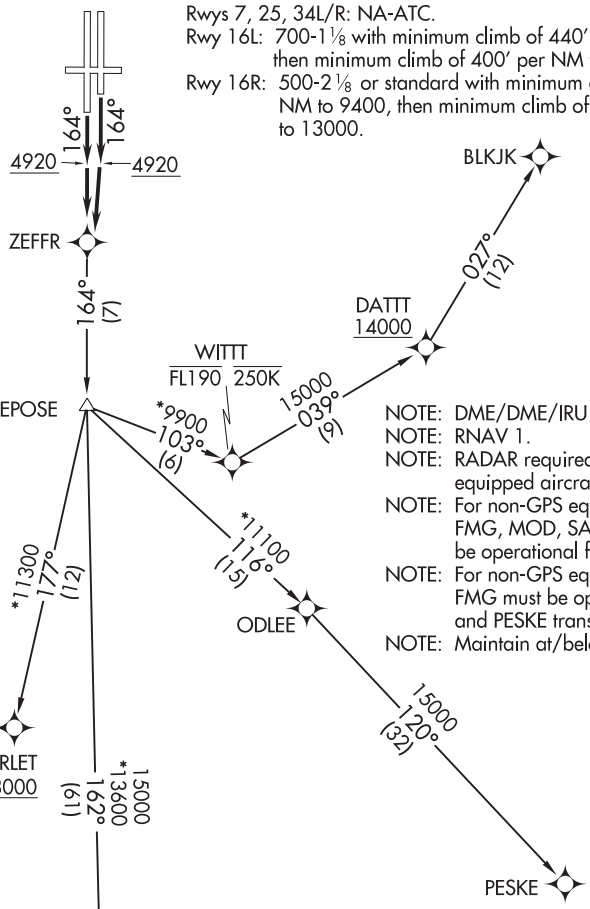
MUSTANG TRANSITION (WAGGE6.FMG): From over WAGGE INT via FMG R-182 to FMG VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020

D-ATIS
135.8 363.0
CLNC DEL
124.9 370.85
CPDLC
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55

TOP ALTITUDE: FL190

TAKEOFF MINIMUMS
Rwys 7, 25, 34L/R: NA-ATC.
Rwy 16L: 700-1⅛ with minimum climb of 440′ per NM to 9400, then minimum climb of 400′ per NM to 13000.
Rwy 16R: 500-2⅛ or standard with minimum climb of 440′ per NM to 9400, then minimum climb of 400′ per NM to 13000.



NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: For non-GPS equipped aircraft, FMG, MOD, SAC, and SWR must be operational for DARBI transition.
NOTE: For non-GPS equiped aircraft FMG must be operational for BLKJK and PESKE transitions.
NOTE: Maintain at/below 250K until WITTT.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb heading 164° to 4920, then direct ZEFFR, then on depicted route, thence . . . .

. . . .maintain FL190 or assigned altitude. Expect filed altitude 5 minutes after departure.

BLKJK TRANSITION (ZEFFR6.BLKJK)
DARBI TRANSITION (ZEFFR6.DARBI)
MRLET TRANSITION (ZEFFR6.MRLET)
PESKE TRANSITION (ZEFFR6.PESKE)

RICHFIELD, UTAH AL-9434 (FAA) 20254

RNAV (GPS) RWY 19
RICHFIELD MUNI (RIF)

WAAS CH 70537 W19A	APP CRS 207°	Rwy ldg 7100 TDZE 5286 Apt Elev 5318

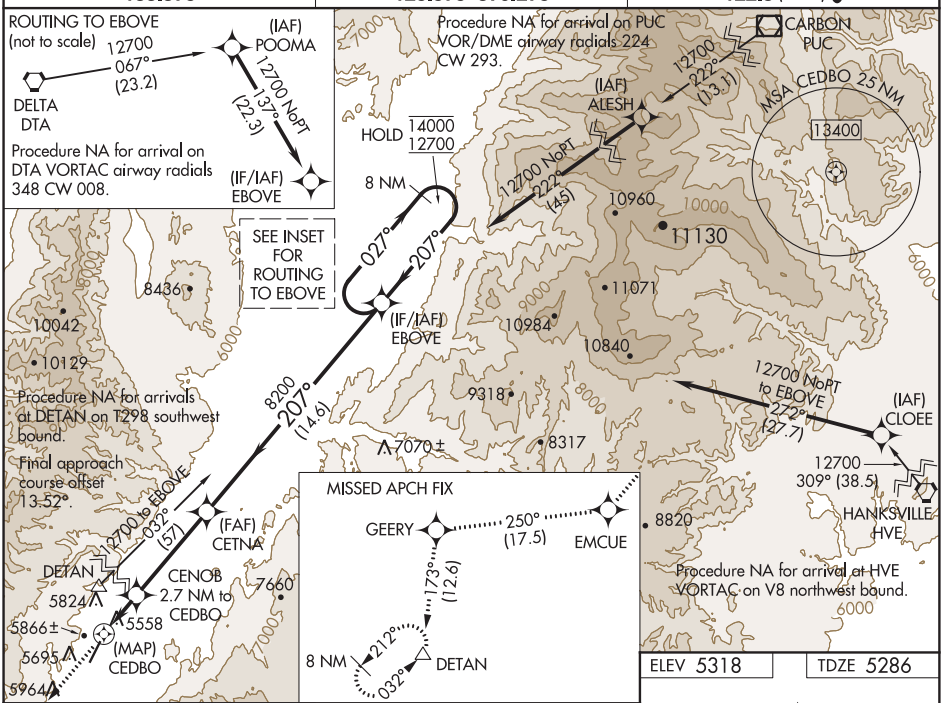
RNP APCH.

T NA -12°C

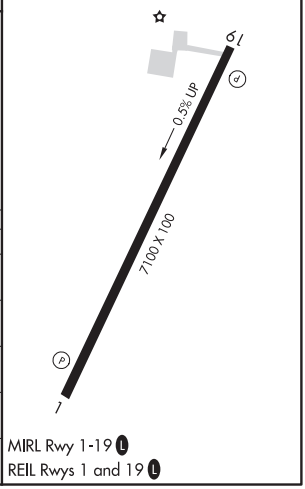
Rwy 19 helicopter visibility reduction below ¾ NA. When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 12000 direct EMCUE, and track 250° to GEERY, and track 173° to DETAN and hold.
*Missed approach requires minimum climb of 380 feet per NM to 9600.
#Missed approach requires minimum climb of 390 feet per NM to 9600.

AWOS-3	SALT LAKE CITY CENTER	UNICOM
133.375	125.575 379.275	122.8 (CTAF) L



ELEV 5318	TDZE 5286



MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L

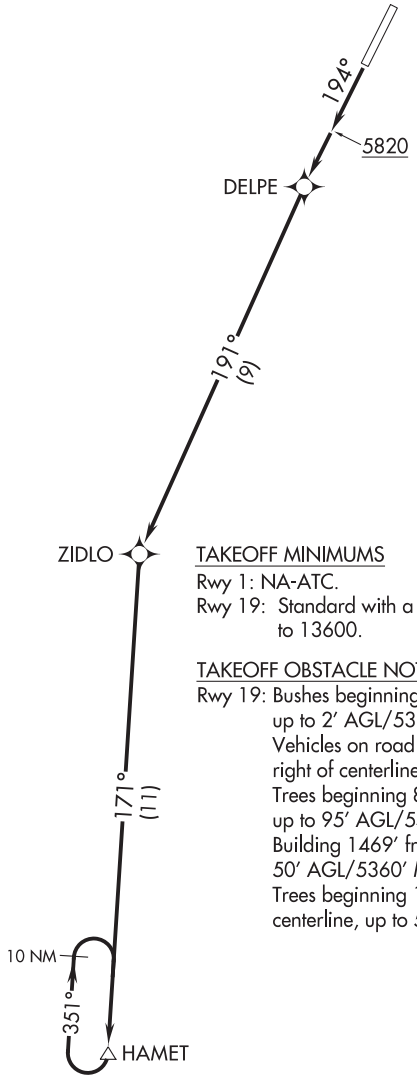
CATEGORY	A	B	C	D
LP MDA*	5880-1 594 (600-1)		5880-1¾ 594 (600-1¾)	NA
LP MDA	7340-1¼ 2054 (2100-1¼)	7340-1½ 2054 (2100-1½)	7340-3 2054 (2100-3)	NA
LNAV MDA#	6340-1¼ 1054 (1100-1¼)	6340-1½ 1054 (1100-1½)	6340-3 1054 (1100-3)	NA
LNAV MDA	7440-1¼ 2154 (2200-1¼)	7440-1½ 2154 (2200-1½)	7440-3 2154 (2200-3)	NA
C CIRCLING	7440-1¼ 2122 (2200-1¼)	7440-1½ 2122 (2200-1½)	7440-3 2122 (2200-3)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

HAMET THREE DEPARTURE (OBSTACLE) (RNAV)

SALT LAKE CITY CENTER
125.575 379.275
UNICOM
122.8 (CTAF)
AWOS-3
133.375



NOTE: RNAV 1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 1: NA-ATC.

Rwy 19: Standard with a minimum climb of 385′ per NM to 13600.

TAKEOFF OBSTACLE NOTES

Rwy 19: Bushes beginning 74′ from DER, 322′ right of centerline, up to 2′ AGL/5326′ MSL.
Vehicles on road beginning 347′ from DER, left and right of centerline, up to 15′ AGL/5352′ MSL.
Trees beginning 831′ from DER, 695′ left of centerline, up to 95′ AGL/5414′ MSL.
Building 1469′ from DER, 660′ right of centerline, 50′ AGL/5360′ MSL.
Trees beginning 1604′ from DER, 475′ right of centerline, up to 57′ AGL/5397′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 19: Climb heading 194° to 5820, then direct DELPE, then on track 191° to ZIDLO, then on track 171° to HAMET. Thence. . . .

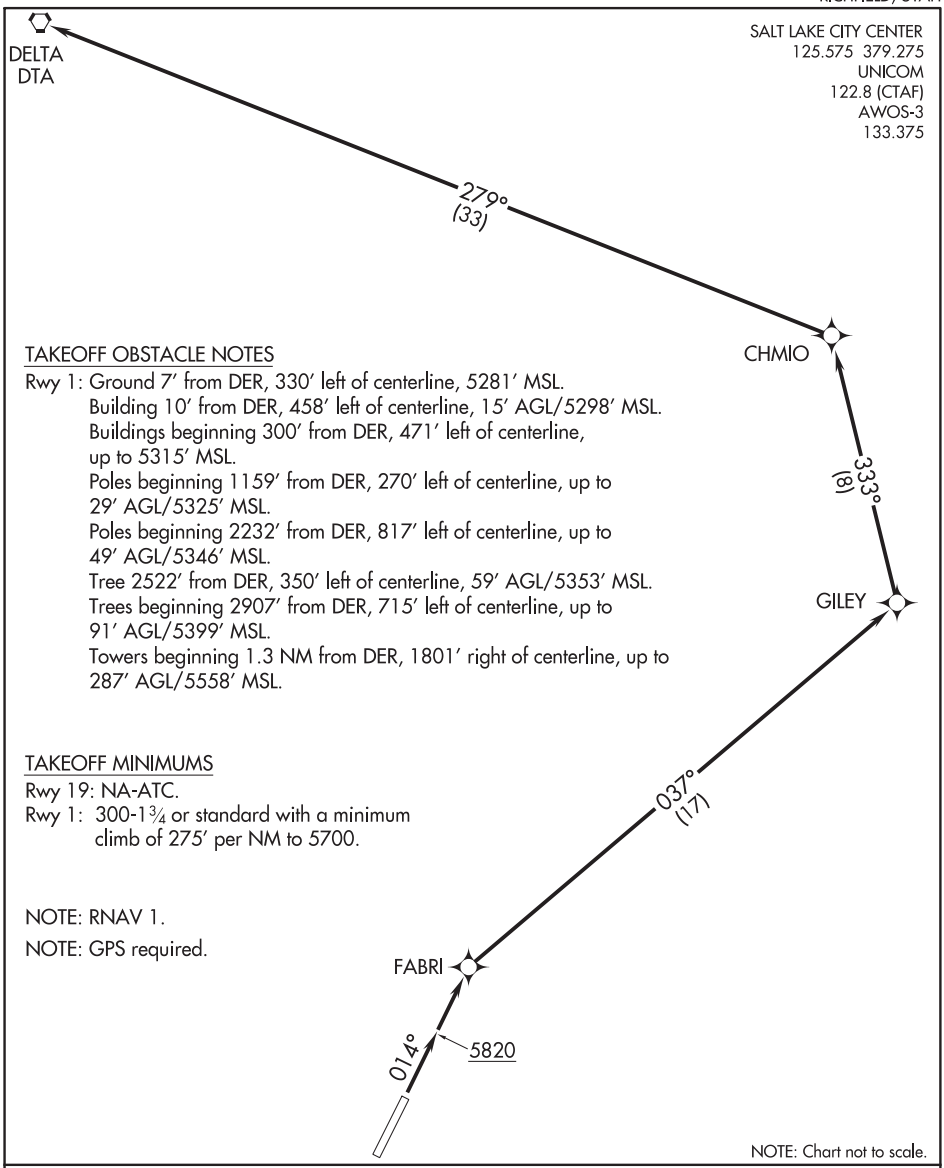
. . . .climb in holding pattern to 16000 before proceeding on course. Expect filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(RIF2.RIF) 19059 AL-9434 (FAA)

RICHFIELD TWO DEPARTURE (OBSTACLE) (RNAV)

RICHFIELD MUNI (RIF)
RICHFIELD, UTAH



TAKEOFF OBSTACLE NOTES

Rwy 1: Ground 7′ from DER, 330′ left of centerline, 5281′ MSL.
Building 10′ from DER, 458′ left of centerline, 15′ AGL/5298′ MSL.
Buildings beginning 300′ from DER, 471′ left of centerline, up to 5315′ MSL.
Poles beginning 1159′ from DER, 270′ left of centerline, up to 29′ AGL/5325′ MSL.
Poles beginning 2232′ from DER, 817′ left of centerline, up to 49′ AGL/5346′ MSL.
Tree 2522′ from DER, 350′ left of centerline, 59′ AGL/5353′ MSL.
Trees beginning 2907′ from DER, 715′ left of centerline, up to 91′ AGL/5399′ MSL.
Towers beginning 1.3 NM from DER, 1801′ right of centerline, up to 287′ AGL/5558′ MSL.

TAKEOFF MINIMUMS

Rwy 19: NA-ATC.
Rwy 1: 300-1¾ or standard with a minimum climb of 275′ per NM to 5700.

NOTE: RNAV 1.

NOTE: GPS required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° to 5820, then direct to FABRI, then on track 037° to GILEY, then on track 333° to CHMIO, then on track 279° to DTA VORTAC. Thence. . . .

. . . .climb to 10300. Expect filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020

RICHFIELD TWO DEPARTURE (OBSTACLE) (RNAV)
(RIF2.RIF) 20AUG15
RICHFIELD, UTAH
RICHFIELD MUNI (RIF)

WAAS CH 86539 W25A	APP CRS 253°	Rwy ldg 6501 TDZE 5140 Apt Elev 5176

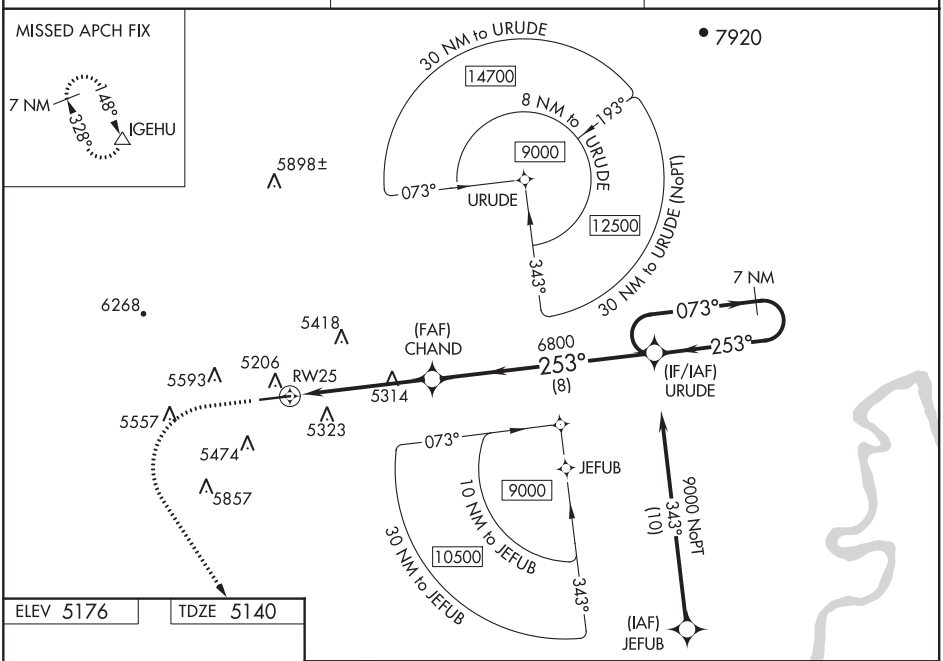
RNAV (GPS) RWY 25
ROOSEVELT MUNI (74V)

NA

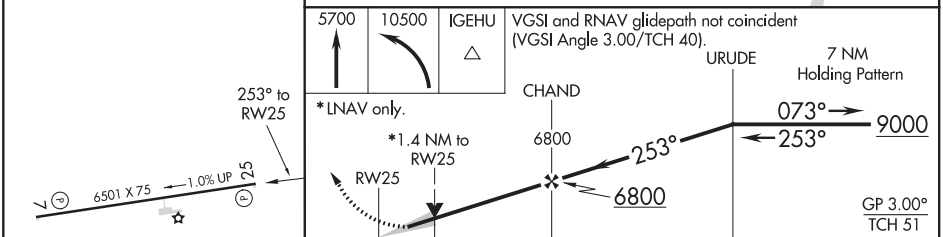
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 48°C (119°F). Baro-VNAV and VDP NA when using Vernal altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Vernal altimeter setting: increase LPV DA to 5466 and visibility ⅛ SM, LNAV/VNAV DA to 5628 and visibility ¼ SM; increase all MDAs 80 feet and LNAV visibility Cat C and D ⅛ SM and Circling Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 5700 then climbing left turn to 10500 direct IGEHU and hold, continue climb-in-hold to 10500.

AWOS-3P	SALT LAKE CENTER	UNICOM
118.975	135.77 257.7	122.8 (CTAF) L



ELEV 5176 TDZE 5140



CATEGORY	A	B	C	D
LPV DA	5390-1 250 (300-1)			
LNAV/VNAV DA	5552-1½ 412 (400-1½)			
LNAV MDA	5580-1 440 (500-1)		5580-1¼ 440 (500-1¼)	
C CIRCLING	5740-1 564 (600-1)	5900-1 724 (800-1)	6020-2½ 844 (900-2½)	6340-3 1164 (1200-3)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ROOSEVELT, UTAH | AL-6419 (FAA) | 20310

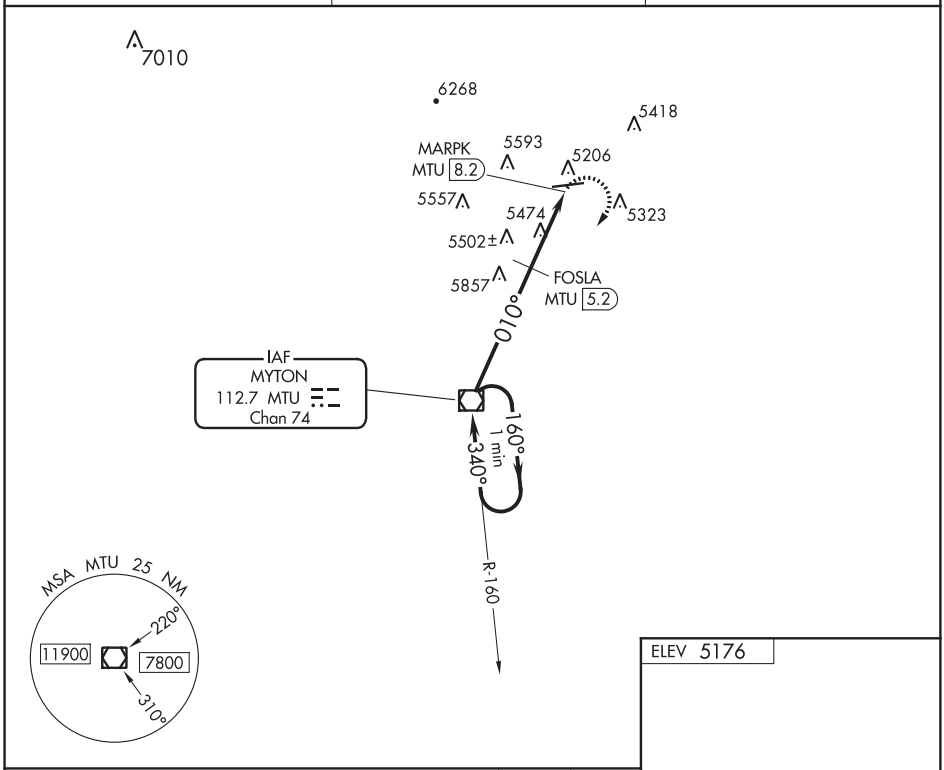
VOR-A
ROOSEVELT MUNI (74V)

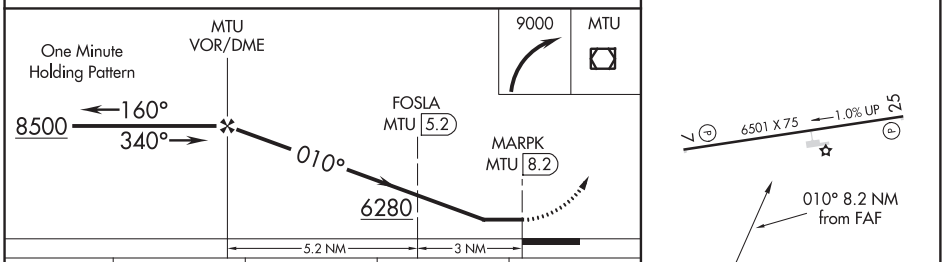
VOR/DME MTU	APP CRS	Rwy ldg	N/A
112.7	010°	TDZE	N/A
Chan 74		Apt Elev	5176

T A NA — When local altimeter setting not received, use Vernal altimeter setting and increase all MDA 80 feet, FOSLA fix minimums, increase Cat C visibility ¼ SM.

MISSED APPROACH: Climbing right turn to 9000 direct MTU VOR/DME and hold, continue climb-in-hold to 9000.

AWOS-3P	SALT LAKE CENTER	UNICOM
118.975	135.77 257.7	122.8 (CTAF) L





ELEV 5176

010° 8.2 NM from FAF

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

CATEGORY	A	B	C	D
C CIRCLING	6280-1¼ 1104 (1200-1¼)	6280-1½ 1104 (1200-1½)	6280-3 1104 (1200-3)	6340-3 1164 (1200-3)
FOSLA FIX MINIMUMS				
C CIRCLING	5760-1 584 (600-1)	5900-1 724 (800-1)	6020-2½ 844 (900-2½)	6340-3 1164 (1200-3)

FAF to MAP 8.2 NM

Knots	60	90	120	150	180
Min:Sec	8:12	5:28	4:06	3:17	2:44

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

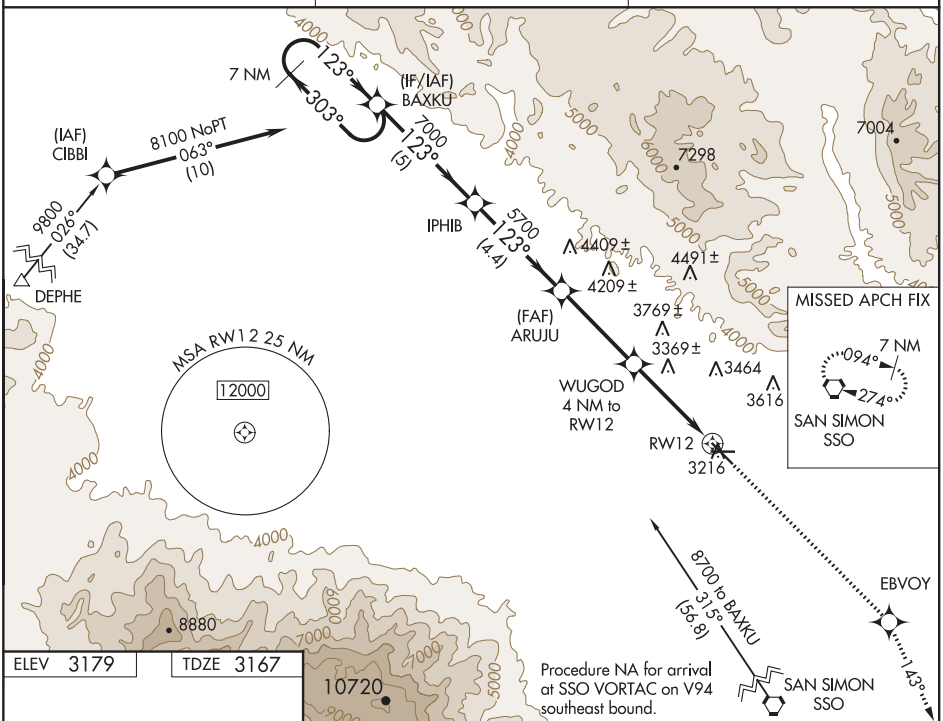
WAAS CH 69516 W12A	APP CRS 123°	Rwy ldg 6006 TDZE 3167 Apt Elev 3179

RNAV (GPS) RWY 12
SAFFORD RGNL (SAD)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Night landing: Rwy 8 NA.

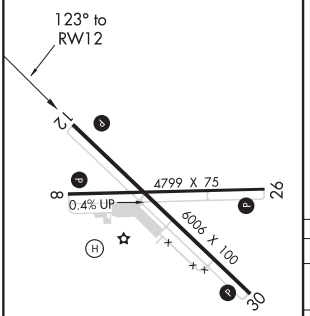
MISSED APPROACH: Climb to 10000 direct EBVOY and on track 143° to SSO VORTAC and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
124.175	134.45 327.15	122.8 (CTAF) L



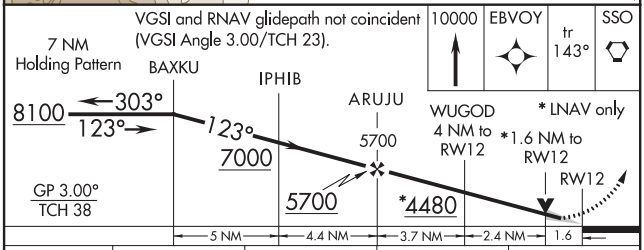
Procedure NA for arrival at SSO VORTAC on V94 southeast bound.

ELEV 3179 TDZE 3167



REIL Rwys 8 and 26 L
MIRL Rwys 8-26 and 12-30 L

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 23).



CATEGORY	A	B	C	D
LPV DA	3417-1 250 (300-1)			NA
LNAV/VNAV DA	3635-1¾ 468 (500-1¾)			NA
LNAV MDA	3700-1 533 (600-1)			NA
CIRCLING	3740-1 561 (600-1)			NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SAFFORD, ARIZONA | AL-789 (FAA) | 19115

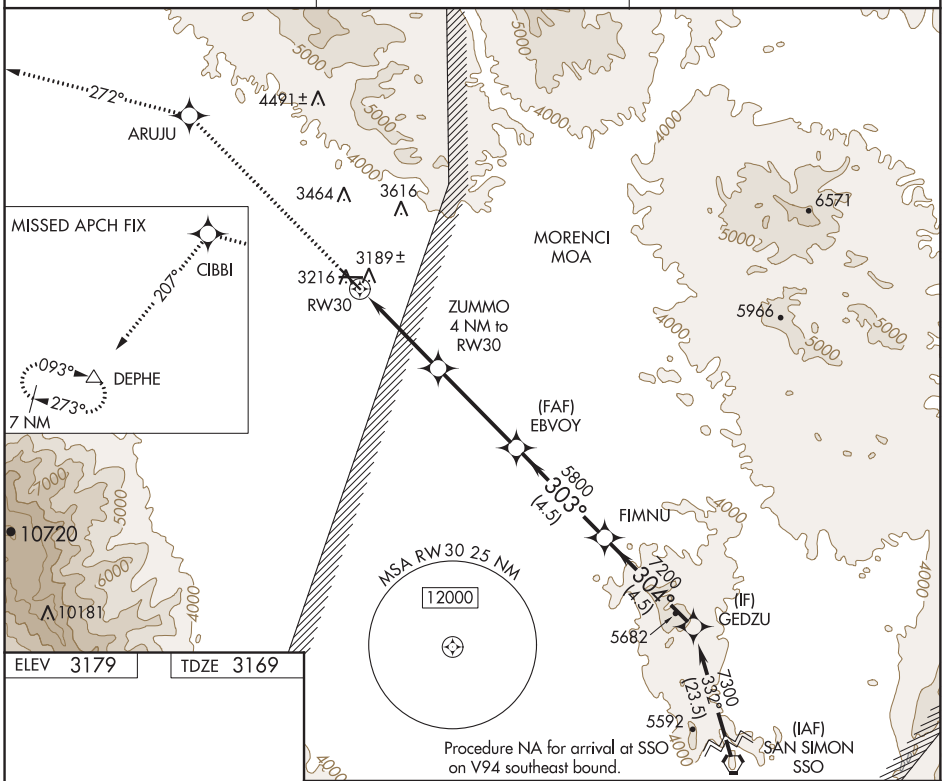
RNAV (GPS) RWY 30
SAFFORD RGNL (SAD)

WAAS CH 78316 W30A	APP CRS 303°	Rwy ldg 6006 / TDZE 3169 / Apt Elev 3179

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Night landing: Rwy 8 NA.

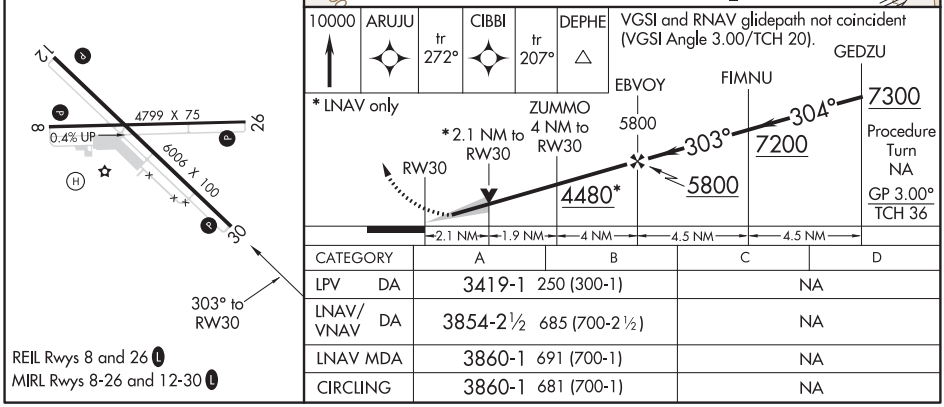
MISSED APPROACH: Climb to 10000 direct ARUJU and on track 272° to CIBBI and on track 207° to DEPHE and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
124.175	134.45 327.15	122.8 (CTAF) L



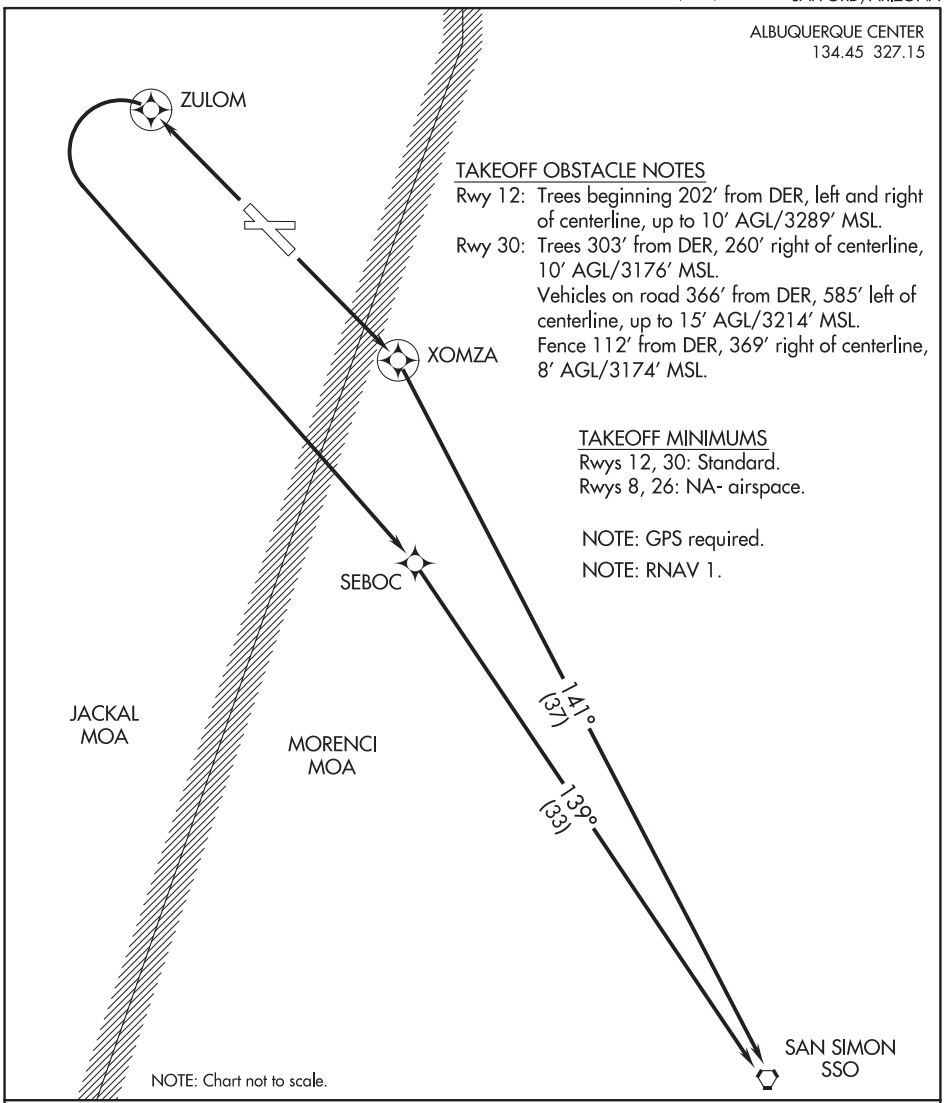
SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 3179	TDZE 3169



REIL Rwys 8 and 26 L
MIRL Rwys 8-26 and 12-30 L

CATEGORY	A	B	C	D
LPV DA	3419-1 250 (300-1)		NA	
LNAV/VNAV DA	3854-2½ 685 (700-2½)		NA	
LNAV MDA	3860-1 691 (700-1)		NA	
CIRCLING	3860-1 681 (700-1)		NA	



TAKEOFF OBSTACLE NOTES

Rwy 12: Trees beginning 202′ from DER, left and right of centerline, up to 10′ AGL/3289′ MSL.

Rwy 30: Trees 303′ from DER, 260′ right of centerline, 10′ AGL/3176′ MSL.
Vehicles on road 366′ from DER, 585′ left of centerline, up to 15′ AGL/3214′ MSL.
Fence 112′ from DER, 369′ right of centerline, 8′ AGL/3174′ MSL.

TAKEOFF MINIMUMS

Rwys 12, 30: Standard.
Rwys 8, 26: NA- airspace.

NOTE: GPS required.

NOTE: RNAV 1.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climb direct XOMZA and right turn on track 141° to SSO VORTAC, thence. . . .

TAKEOFF RUNWAY 30: Climb direct ZULOM then climbing left turn direct SEBOC then on track 139° to SSO VORTAC, thence. . . .

. . . .via assigned route, expect clearance to filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

ST GEORGE, UTAH | AL-10546 (FAA) | 20198

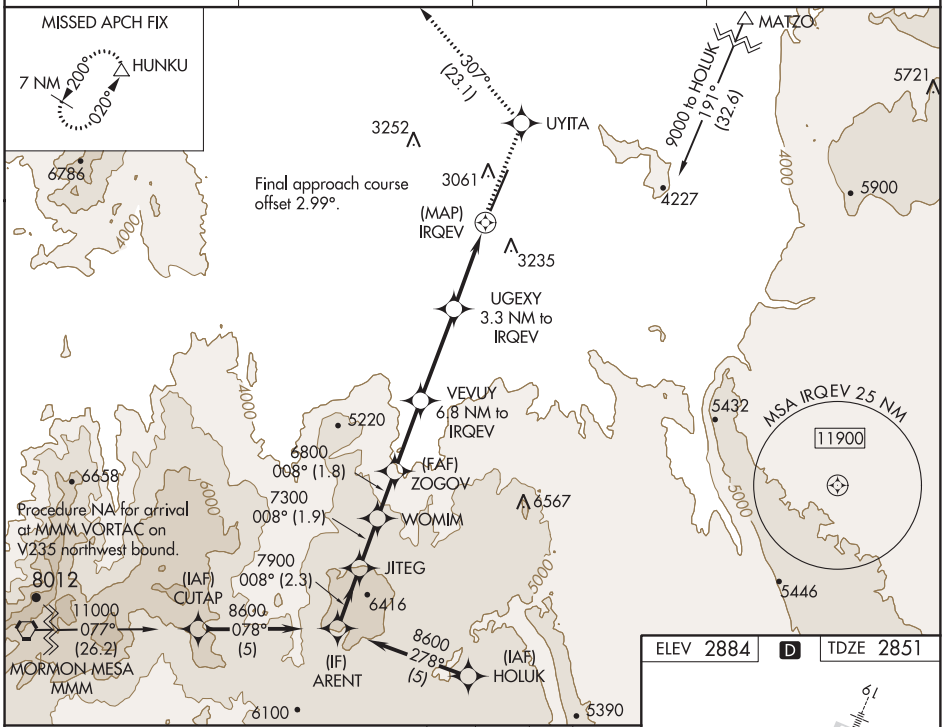
RNAV (GPS) RWY 1
ST GEORGE RGNL (SGU)

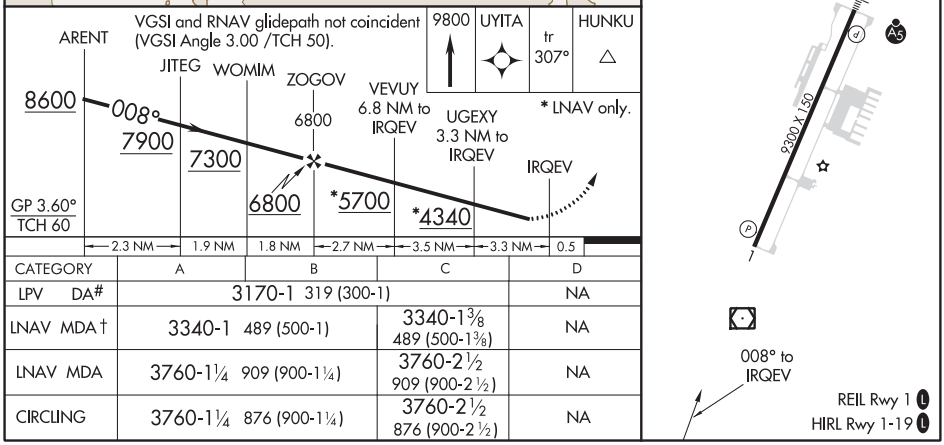
WAAS CH 50220 W01A	APP CRS 008°	Rwy ldg 9300 TDZE 2851 Apt Elev 2884

DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.
Missed approach requires a minimum climb of 225 feet per NM to 6800.
† Missed approach requires a minimum climb of 220 feet per NM to 6700.
-6°C

MISSED APPROACH: Climb to 9800 direct UYITA and on track 307° to HUNKU and hold, continue climb-in-hold to 9800.

AWOS-3PT	LOS ANGELES CENTER	CLNC DEL	UNICOM
135.075	124.2 343.6	133.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA#	3170-1 319 (300-1)			NA
LNAV MDA †	3340-1 489 (500-1)		3340-1⅜ 489 (500-1⅜)	NA
LNAV MDA	3760-1¼ 909 (900-1¼)		3760-2½ 909 (900-2½)	NA
CIRCLING	3760-1¼ 876 (900-1¼)		3760-2½ 876 (900-2½)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 19
ST GEORGE RGNL (SGU)

APP CRS	Rwy ldg	9300
198°	TDZE	2884
	Apt Elev	2884

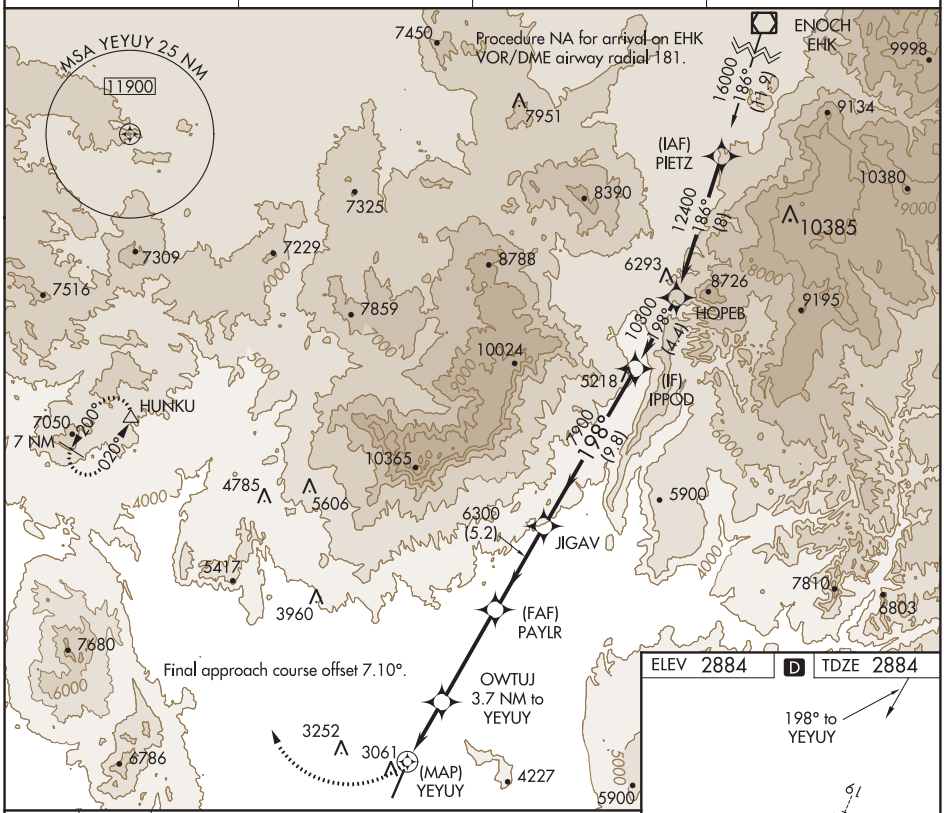
T A -6°C

DME/DME RNP-0.3 NA.

MALSR A5

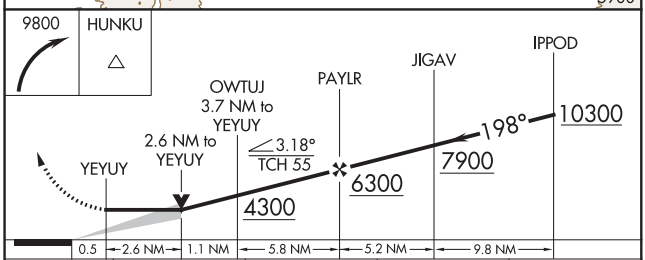
MISSED APPROACH: Climbing right turn to 9800 direct HUNKU and hold, continue climb-in-hold to 9800.

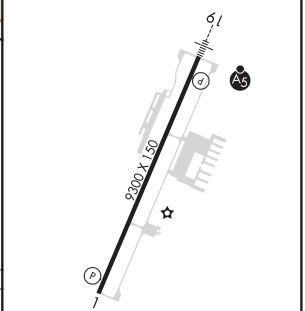
AWOS-3PT	LOS ANGELES CENTER	CLNC DEL	UNICOM
135.075	124.2 343.6	133.3	122.8 (CTAF) L



ELEV 2884 D TDZE 2884

198° to YEYUY





CATEGORY	A	B	C	D
LNAV MDA	3940-¾ 1056 (1100-¾)	3940-1 1056 (1100-1)	3940-2½ 1056 (1100-2½)	
CIRCLING	3940-1¼ 1056 (1100-1¼)	3940-1½ 1056 (1100-1½)	3940-3 1056 (1100-3)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ST GEORGE, UTAH | AL-10546 (FAA) | 20198

LDA RWY 19
ST GEORGE RGNL (SGU)

LOC/DME I-SGU	APP CRS	Rwy ldg	9300
110.9	198°	TDZE	2884
Chan 46		Apt Elev	2884

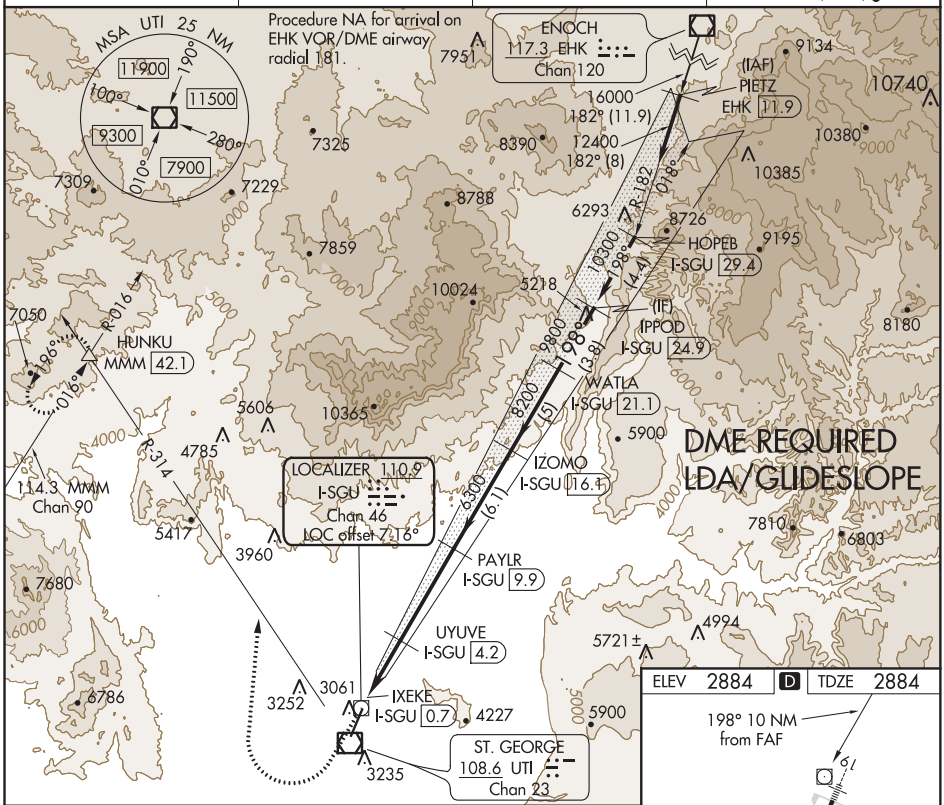
T
NA
-6°C

DME required. For inop ALS, increase S-LDA/GS 19 all Cats visibility to ⅞ SM.

MALSR

MISSED APPROACH: Climb to 4200 then climbing right turn to 9800 on heading 354° and UTI VOR/DME R-314 to HUNKU INT/ MMM 42.1 DME and hold, continue climb-in-hold to 9800.

AWOS-3PT	LOS ANGELES CENTER	CLNC DEL	UNICOM
135.075	124.2 343.6	133.3	122.8 (CTAF) L



4200	9800	UTI	HUNKU
	hdg 354°	R-314	△

*LDA only.

Use I-SGU DME when on the localizer course.

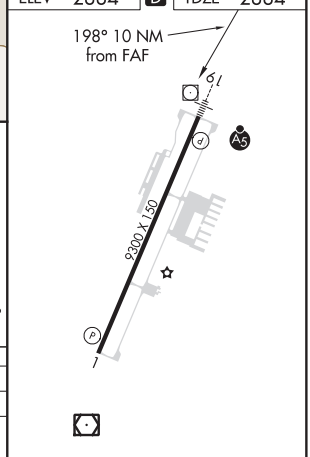
IPPOD I-SGU 24.9
WATLA I-SGU 21.1
IZOMO I-SGU 16.1
PAYLR I-SGU 9.9
UYUVE I-SGU 4.2
*I-SGU 3
IXEKE I-SGU 0.7
198°
10300
9800
8200
6300
6300
4300*
LOC unusable inside 0.7 DME.
GS 3.10°
TCH 55

0.7 | 2.3 NM | 1.2 NM | 5.7 NM | 6.1 NM | 5 NM | 3.8 NM

CATEGORY	A	B	C	D
S-LDA/GS 19	3170-½ 286 (300-½)			
S-LDA 19	3940-¾ 1056 (1100-¾)	3940-1 1056 (1100-1)	3940-2½ 1056 (1100-2½)	
CIRCLING	3940-1¼ 1056 (1100-1¼)	3940-1½ 1056 (1100-1½)	3940-3 1056 (1100-3)	

ELEV 2884 | D | TDZE 2884

198° 10 NM from FAF



REIL Rwy 1 L
HIRL Rwy 1-19 L

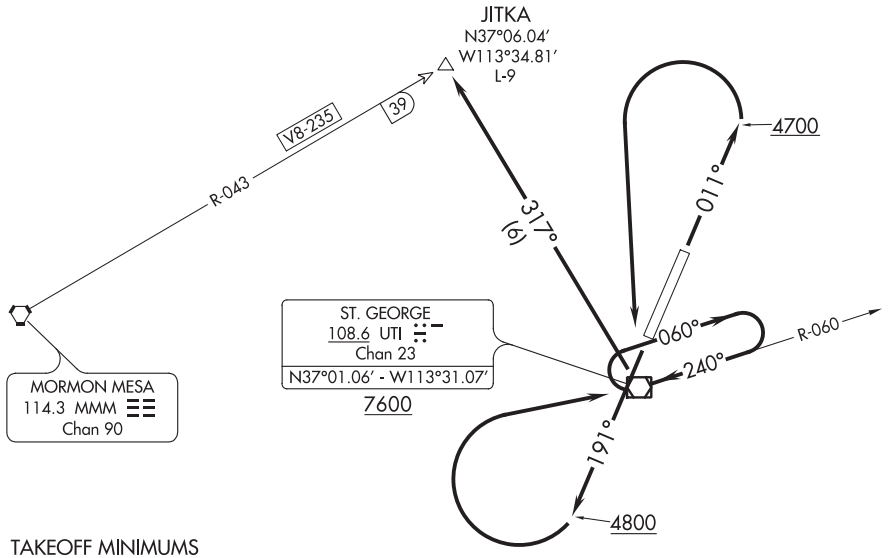
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

JITKA TWO DEPARTURE (OBSTACLE)

SL-10546 (FAA)

AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6



TAKEOFF MINIMUMS

Rwy 1: Obtain ATC approval for VCOA when requesting IFR clearance.
Standard with minimum climb of 330′ per NM to 5400 or
6300-3 for climb in visual conditions.

Rwy 19: Obtain ATC approval for VCOA when requesting IFR clearance.
Standard with minimum climb of 380′ per NM to 6100 or
6300-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 1: Terrain beginning 2.2 NM from DER, 3898′ right of centerline, up to 3490′ MSL.

Rwy 19: Terrain 509′ from DER, 44′ left of centerline, 2845′ MSL.
Terrain beginning 182′ from DER, 64′ right of centerline, up to 2856′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 011° to 4700, then climbing left turn direct UTI VOR/DME, thence. . . . or, climb in visual conditions to cross St George Rgnl Airport at or above 9000, then proceed on course.

TAKEOFF RUNWAY 19: Climb heading 191° to 4800, then climbing right turn direct UTI VOR/DME, thence. . . . or, climb in visual conditions to cross St George Rgnl Airport at or above 9000, then proceed on course.

. . . . continue climb in UTI VOR/DME holding pattern, to cross UTI VOR/DME at or above 7600, then on UTI VOR/DME R-317 to JITKA INT/MMM VORTAC 39 DME, then proceed on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(HIVKA2.HIVKA) 18312

HIVKA TWO DEPARTURE (RNAV)

AL-10546 (FAA)

ST GEORGE RGNL (SGU)
ST GEORGE, UTAH

TOP ALTITUDE:
URIAH TRANSITION: 10000;
MATZO TRANSITION: 13000

AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6

TAKEOFF MINIMUMS
Rwy 1: Standard with minimum climb of 330′ per NM to 7300 (URIAH transition), standard with minimum climb of 480′ per NM to 12000 (MATZO transition).
Rwy 19: Standard with minimum climb of 300′ per NM to 5500 (URIAH transition), standard with minimum climb of 460′ per NM to 12000 (MATZO transition).

URIAH
8200
333°
(15)
QUXEP
6800
315°
(9)
HIVKA
5300
047°
(5)
JEZOB
12000
048°
(8)
MATZO
3860
011°
191°
3820

NOTE: GPS required.
NOTE: RNAV-1.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 011° to 3860, then climbing left turn direct HIVKA, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 191° to 3820, then climbing right turn direct HIVKA, thence. . . .

. . . .(transition).

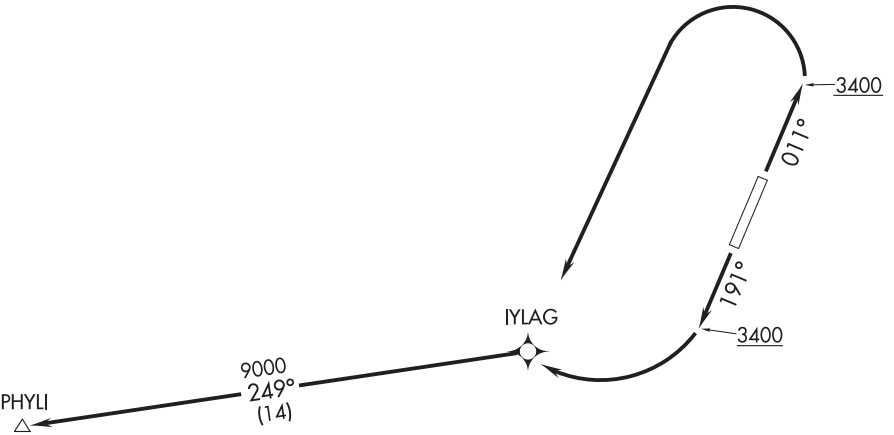
MATZO TRANSITION (HIVKA2.MATZO)

URIAH TRANSITION (HIVKA2.URIAH)

SW-4, 05 NOV 2020 to 31 DEC 2020

AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6

TOP ALTITUDE: 9000



NOTE: GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS
Rwy 1: Standard with minimum climb of 245′ per NM to 3800.
Rwy 19: Standard with minimum climb of 240′ per NM to 5900.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 011° to 3400 then climbing left turn to 9000 (or higher assigned altitude) direct IYLAG and on track 249° to PHYLI.

TAKEOFF RUNWAY 19: Climb heading 191° to 3400 then climbing right turn to 9000 (or higher assigned altitude) direct IYLAG and on track 249° to PHYLI.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

ST JOHNS, ARIZONA AL-6586 (FAA) 19115

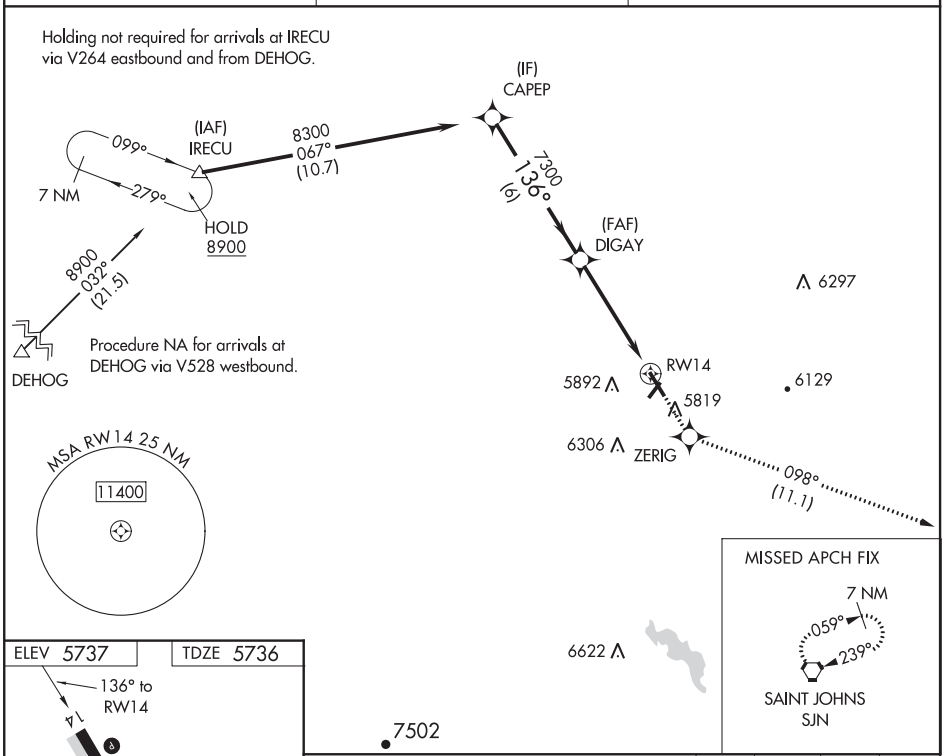
WAAS CH 49224 W14A	APP CRS 136°	Rwy ldg 5322 TDZE 5736 Apt Elev 5737

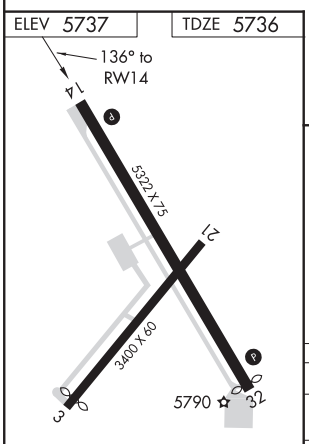
RNAV (GPS) RWY 14
ST JOHNS INDUSTRIAL AIR PARK (SJN)

Night landing Rwy 3, 32 NA. When local altimeter setting not received, use Show Low altimeter setting and increase all MDA 180 feet. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. VDP NA with Show Low altimeter setting.

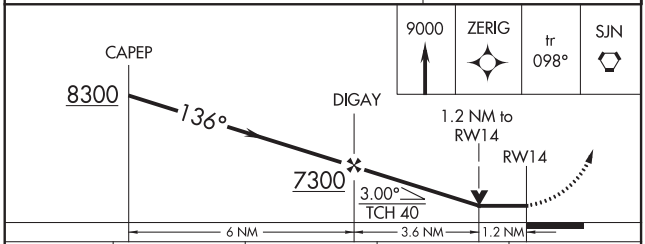
MISSED APPROACH: Climb to 9000 direct ZERIG and on track 098° to SJN VORTAC and hold, continue climb-in-hold to 9000.

ASOS	ALBUQUERQUE CENTER	UNICOM
134.225	124.325 288.25	122.8 (CTAF) L





REIL Rwys 14 and 32 L
MIRL Rwys 3-21 and 14-32



CATEGORY	A	B	C	D
LP MDA	6140-1	404 (500-1)	NA	
LNAV MDA	6140-1	404 (500-1)	NA	
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 42643 W32A	APP CRS 316°	Rwy ldg 5230 TDZE 5737 Apt Elev 5737

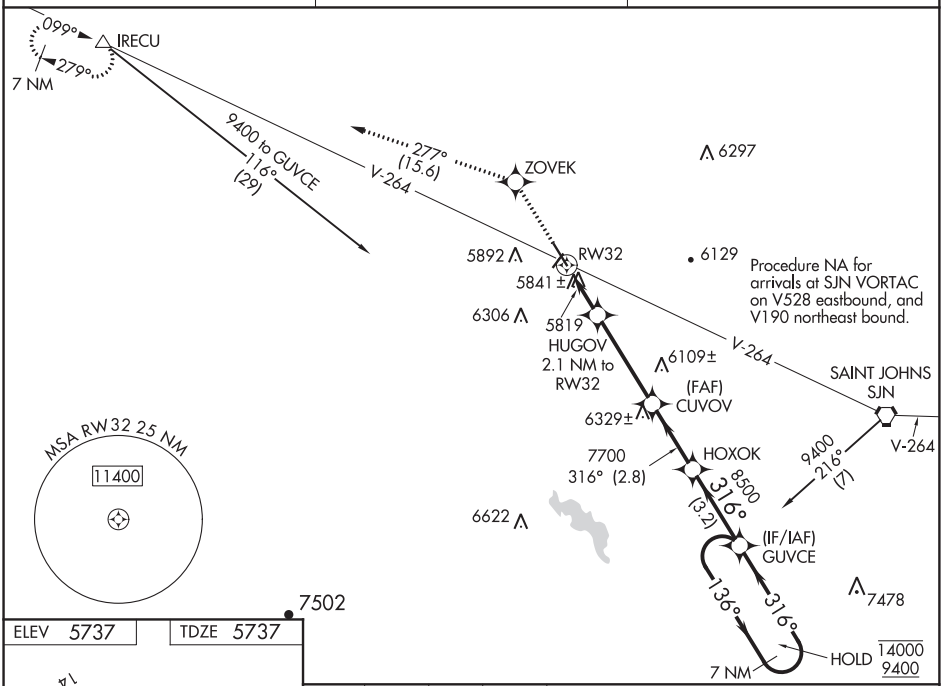
RNAV (GPS) RWY 32
ST JOHNS INDUSTRIAL AIR PARK (SJN)

RNP APCH.

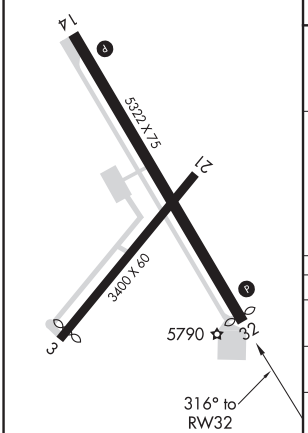
Rwy 32 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C or above 54°C. Rwy 32 Straight-in NA at night. Circling Rwy 3, 32 NA at night.

MISSED APPROACH: Climb to 9400 direct ZOVEK and on track 277° to IRECU and hold.

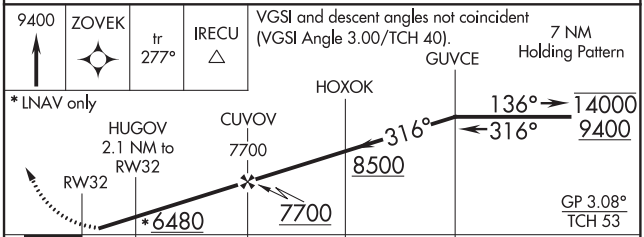
ASOS	ALBUQUERQUE CENTER	UNICOM
134.225	124.325 288.25	122.8 (CTAF) L



ELEV 5737 TDZE 5737



REIL Rwys 14 and 32 L
MIRL Rwys 3-21 and 14-32 L



CATEGORY	A	B	C	D
LPV DA	5987-1 250 (300-1)		NA	
LNAV/VNAV DA	6167-1¼ 430 (500-1¼)		NA	
LNAV MDA	6140-1 403 (500-1)		NA	
C CIRCLING	6260-1 523 (600-1)	6280-1 543 (600-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

ST JOHNS, ARIZONA | AL-6586 (FAA) | 20310

VOR-A

ST JOHNS INDUSTRIAL AIR PARK (SJN)

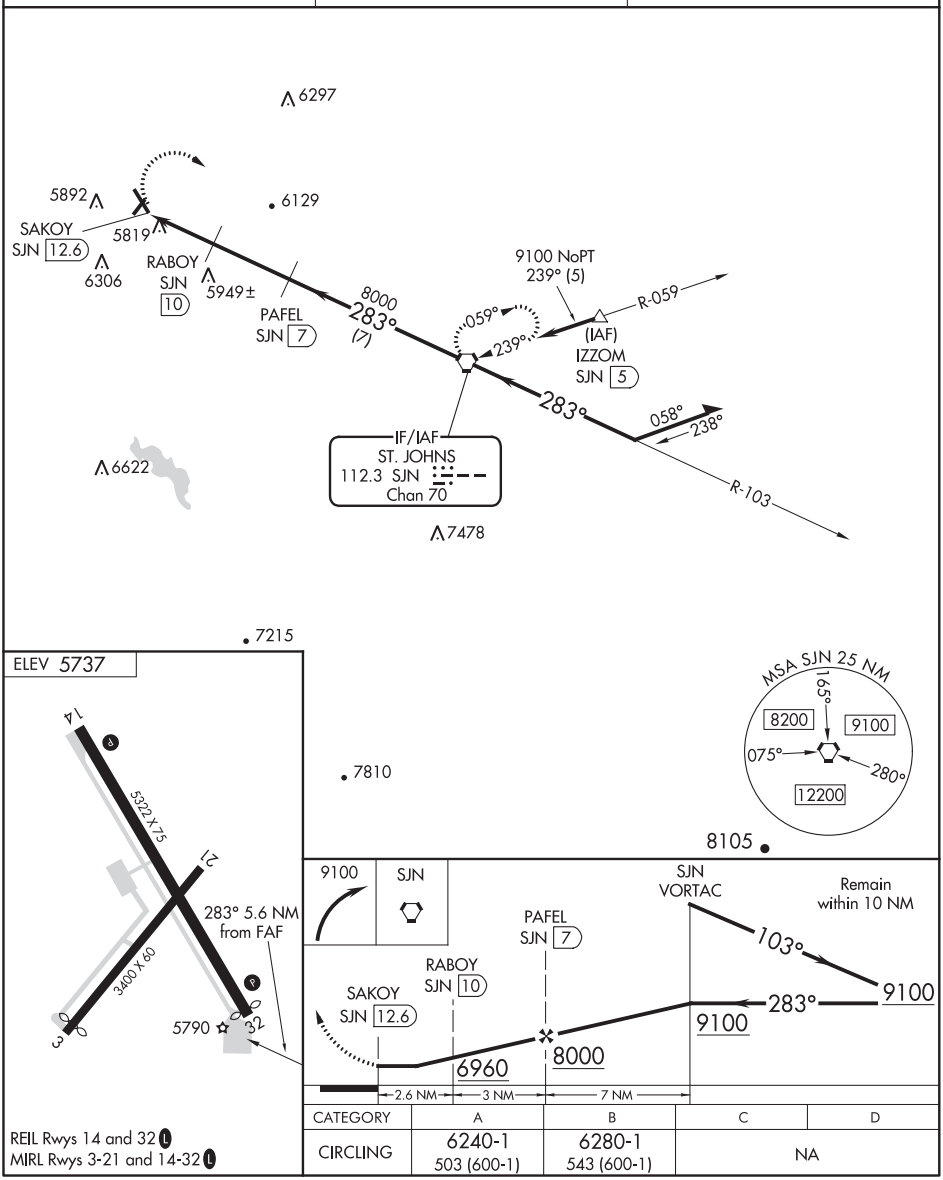
VORTAC SJN 112.3 Chan 70	APP CRS 283°	Rwy ldg N/A TDZE N/A Apt Elev 5737

DME required.

Circling Rwy 3, 32 NA at night.

MISSED APPROACH: Climbing right turn to 9100 direct SJN VORTAC and hold, continue climb-in-hold to 9100.

ASOS	ALBUQUERQUE CENTER	UNICOM
134.225	124.325 288.25	122.8 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)	NA	

REIL Rwys 14 and 32
MIRL Rwys 3-21 and 14-32

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 16L
SALT LAKE CITY INTL (SLC)

LOC/DME I-MOY	APP CRS	Rwy ldg 12002
109.5	164°	TDZE 4227
Chan 32		Apt Elev 4227

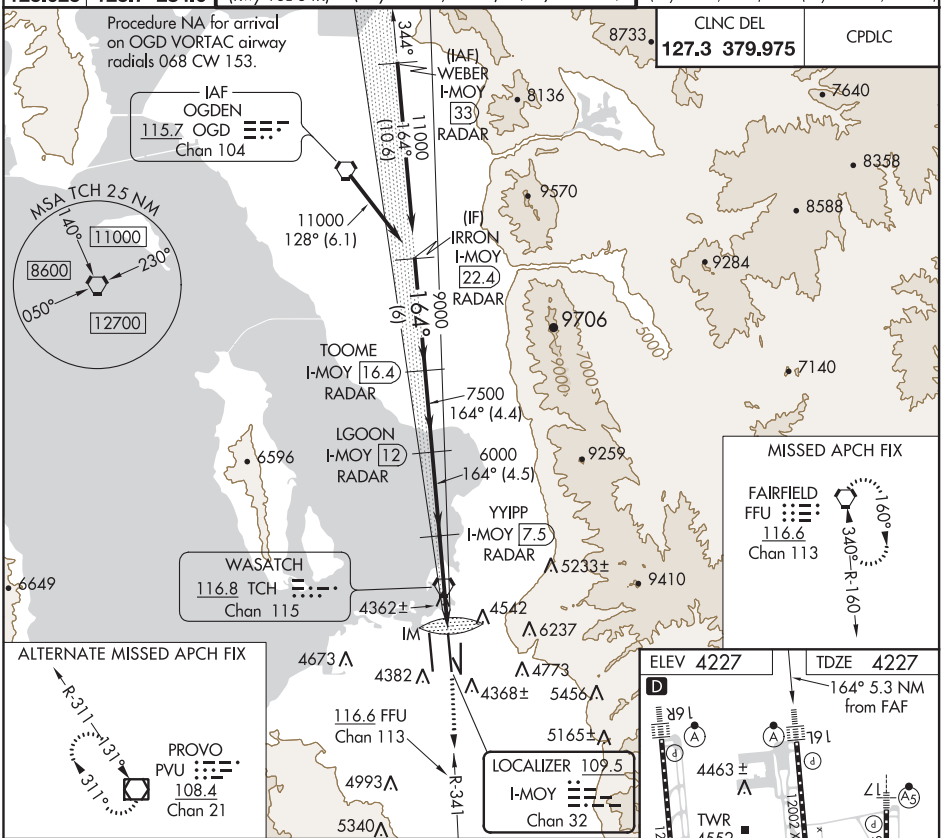
Simultaneous approach authorized. DME or RADAR required.

ALSF-2

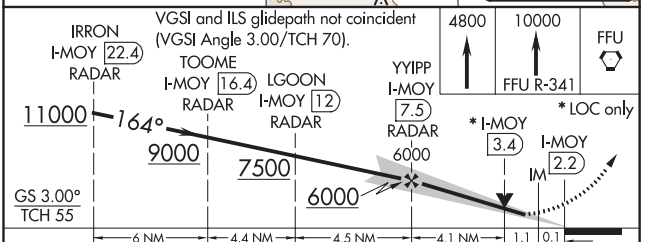
MISSED APPROACH: Climb to 4800 then climb to 10000 via FFU VORTAC R-341 to FFU VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	

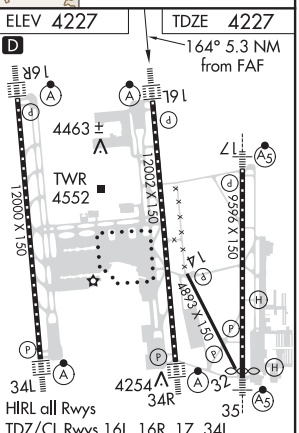


VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 70).



ELEV 4227 TDZE 4227

164° 5.3 NM from FAF



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 34L, 34R and 35

CATEGORY	A	B	C	D
S-ILS 16L	4427/18 200 (200-½)			
S-LOC 16L	4680/24 453 (500-½)		4680/40 453 (500-¾)	4680/50 453 (500-1)

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

ILS or LOC RWY 16R
SALT LAKE CITY INTL (SLC)

LOC/DME I-UAT	APP CRS	Rwy ldg	12000
111.9	164°	TDZE	4223
Chan 56		Apt Elev	4227

DME or RADAR required.

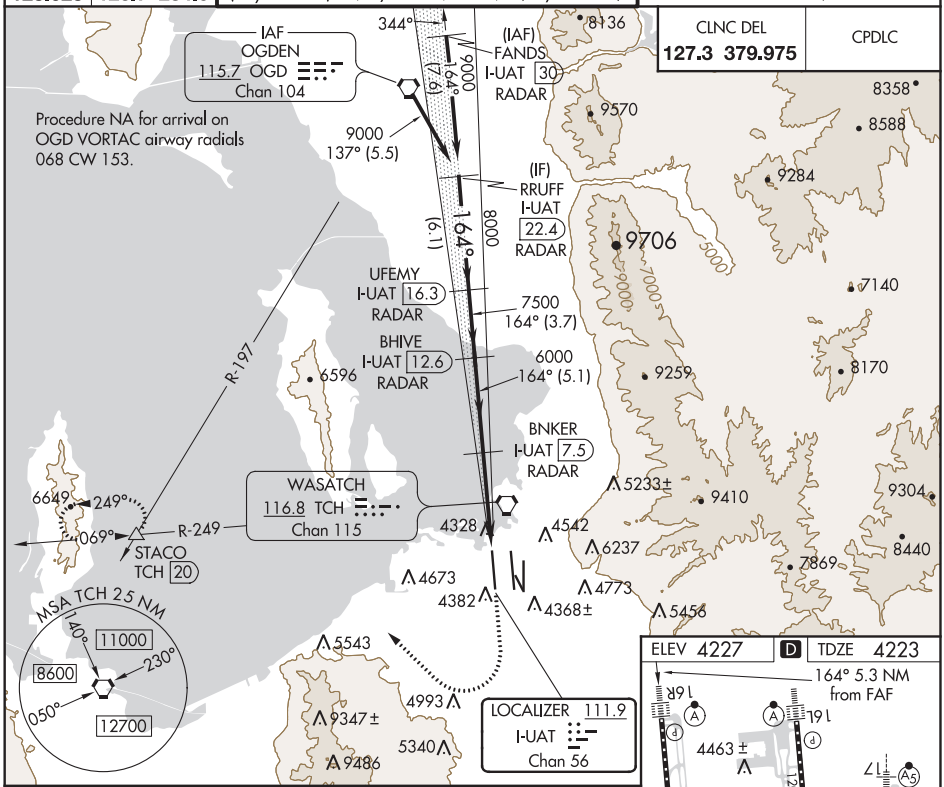
Simultaneous approach authorized. For inop ALS, increase S-LOC 16R Cat C and D visibilities to RVR 5500.

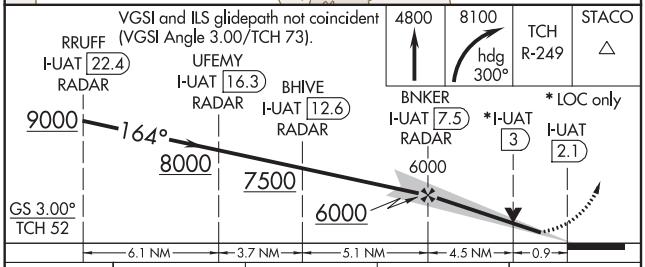
ALSF-2

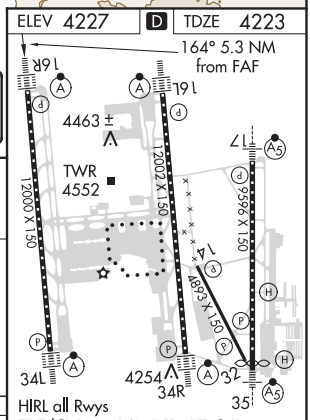
MISSED APPROACH: Climb to 4800 then climbing right turn to 8100 on heading 300° and on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC







CATEGORY	A	B	C	D
S-ILS 16R	4423/18 200 (200-½)			
S-LOC 16R	4580/24 357 (400-½)		4580/30 357 (400-⅝)	4580/40 357 (400-¾)

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 17
SALT LAKE CITY INTL (SLC)

LOC/DME I-BNT	APP CRS	Rwy ldg	9597
111.5	169°	TDZE	4219
Chan 52		Apt Elev	4227

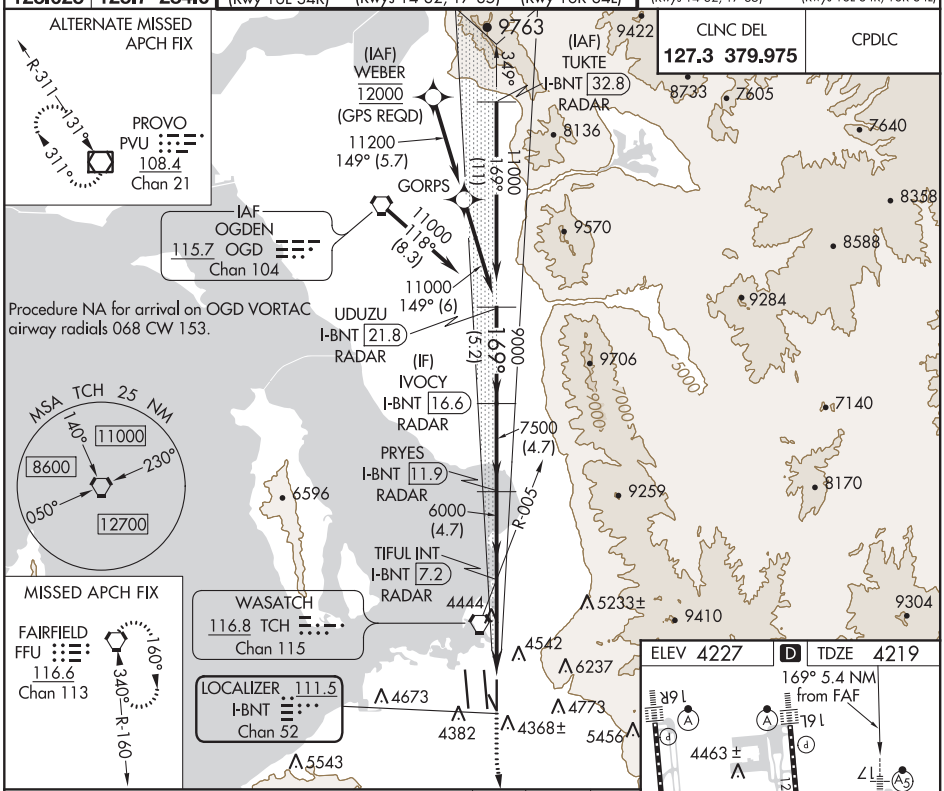
DME or RADAR required. Simultaneous approach authorized. For inop ALS, increase S-ILS 17 Cat E visibility to RVR 4000, increase S-LOC 17 Cat C/D/E visibility to 1⅜ SM.

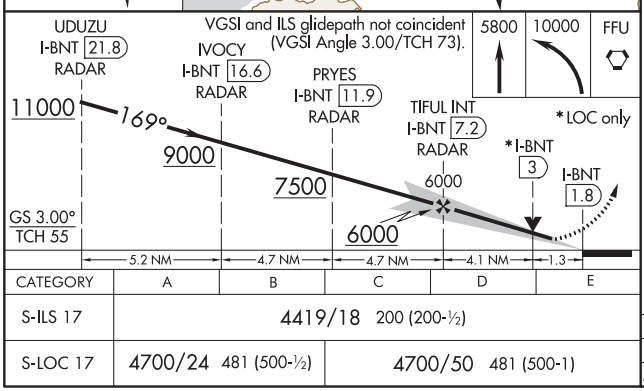
MALSR

MISSED APPROACH: Climb to 5800 then climbing left turn to 10000 direct FFU VORTAC and hold.

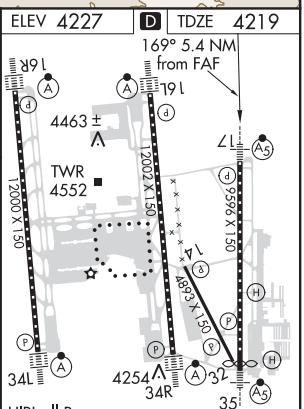
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	





CATEGORY	A	B	C	D	E
S-ILS 17	4419/18 200 (200-½)				
S-LOC 17	4700/24 481 (500-½)		4700/50 481 (500-1)		



FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

ILS or LOC RWY 34L
SALT LAKE CITY INTL (SLC)

LOC/DME I-UUH	APP CRS	Rwy ldg	12000
111.9	344°	TDZE	4226
Chan 56		Apt Elev	4227

RADAR required for arrivals at PUTER. DME or RADAR required.

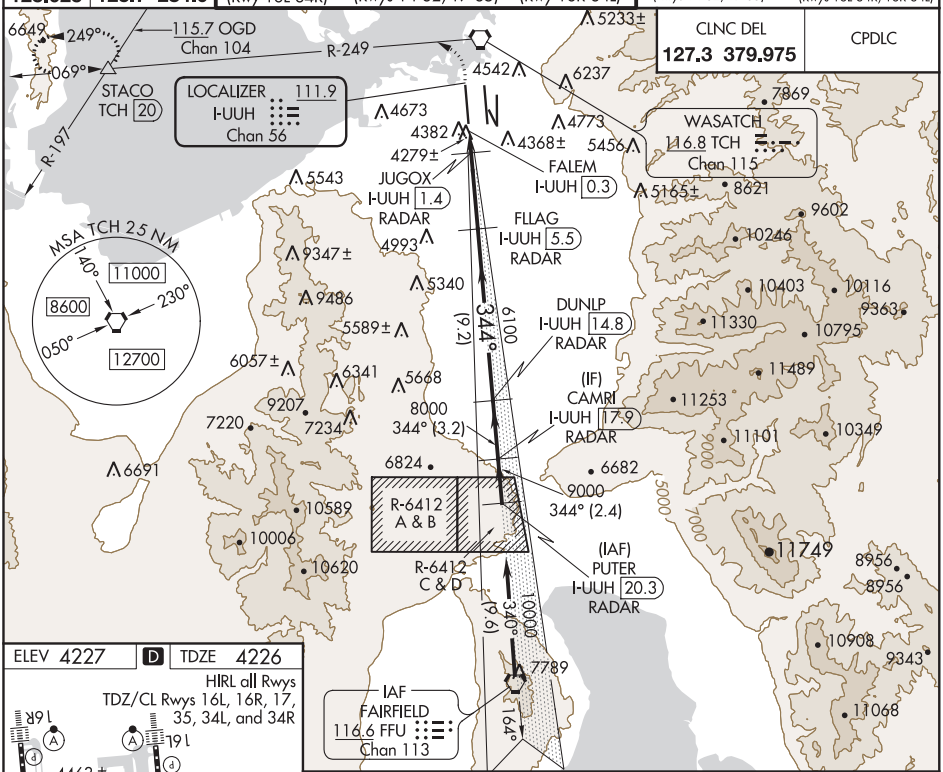
Simultaneous approach authorized.

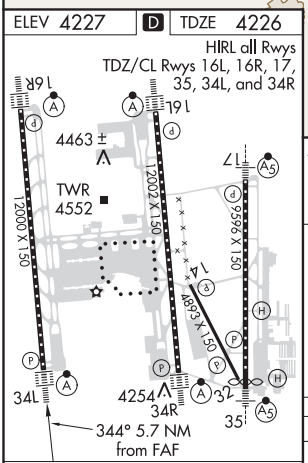
ALSF-2

MISSED APPROACH: Climb to 4800 then climbing left turn to 8100 on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

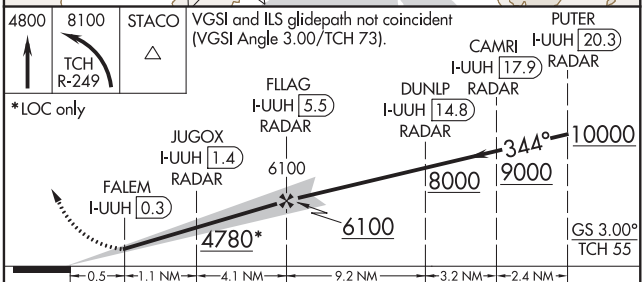
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC





FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D
S-ILS 34L	4426/18 200 (200-½)			
S-LOC 34L	4560/24 334 (400-½)		4560/26 334 (400-½)	

SALT LAKE CITY, UTAH
Amdt 3D 08NOV18

40°47′N-111°59′W

SALT LAKE CITY INTL (SLC)
ILS or LOC RWY 34L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS or LOC RWY 34R
SALT LAKE CITY INTL (SLC)

LOC/DME I-SLC	APP CRS	Rwy ldg	12002
109.5	344°	TDZE	4222
Chan 32		Apt Elev	4227

DME or RADAR Required.

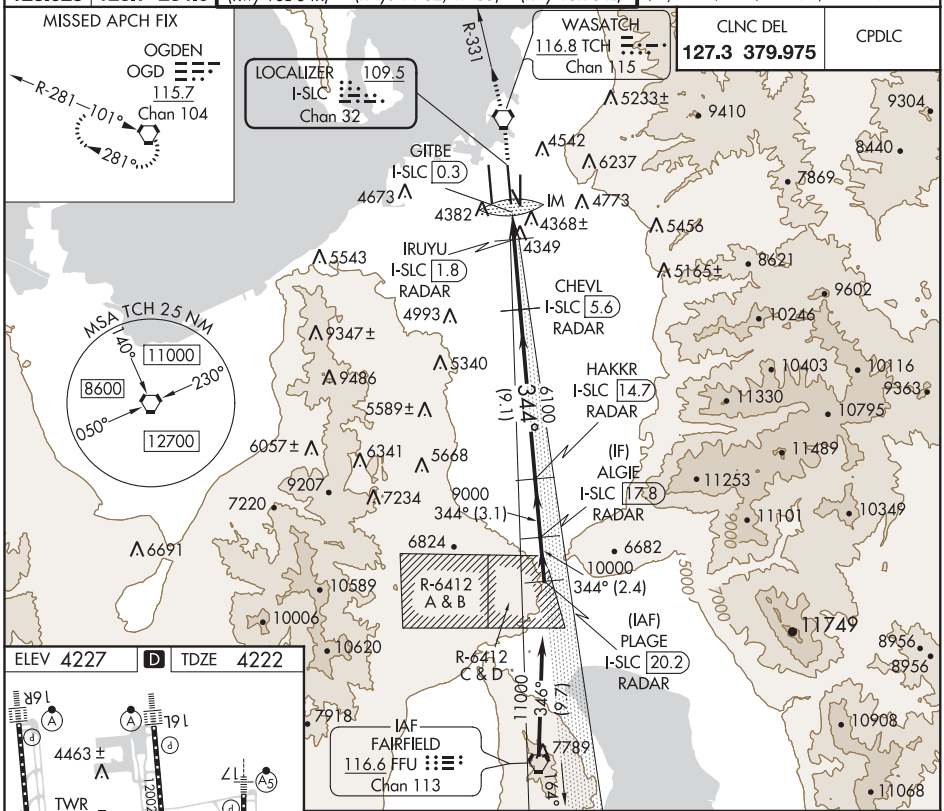
Simultaneous approach authorized.

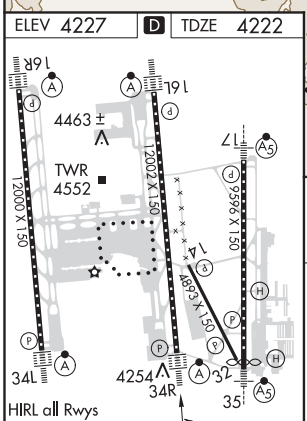
ALSF-2

MISSED APPROACH: Climb to 9000 direct TCH VORTAC and on TCH VORTAC R-331 to OGD VORTAC and hold.

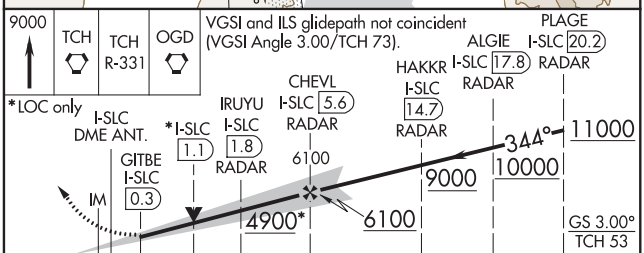
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	





FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D
S-ILS 34R	4422/18 200 (200-½)			
S-LOC 34R	4700/24 478 (500-½)			

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

LOC/DME I-UAT	APP CRS	Rwy ldg	12000
111.9	164°	TDZE	4223
Chan 56		Apt Elev	4227

ILS RWY 16R (SA CAT I)
SALT LAKE CITY INTL (SLC)

DME or RADAR required.

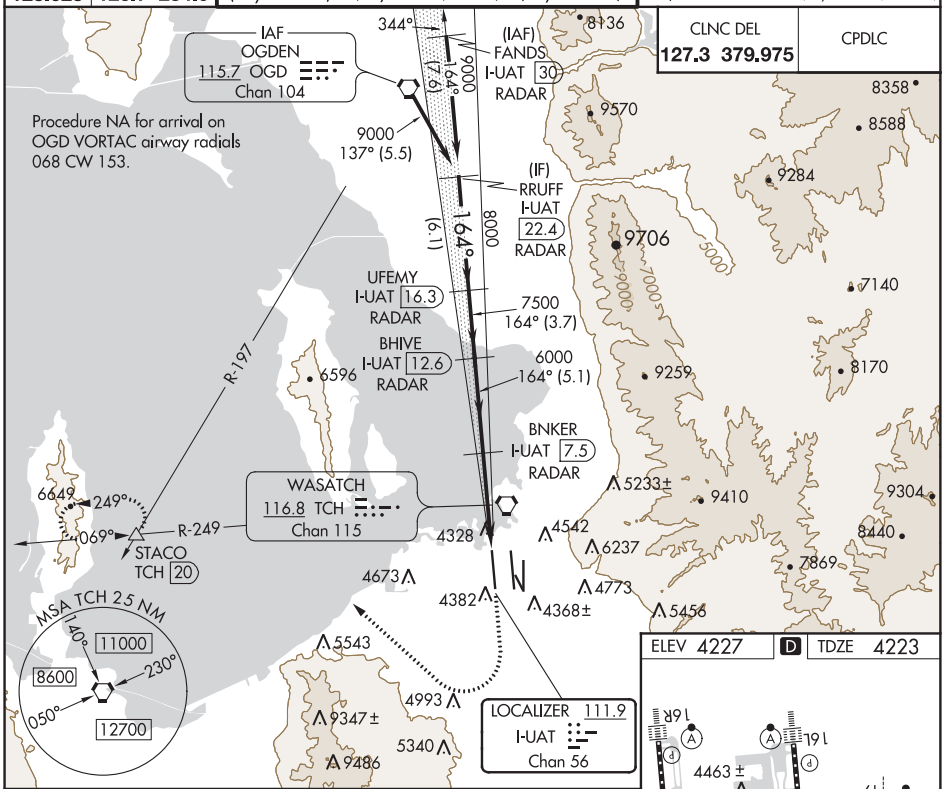
Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 4800 then climbing right turn to 8100 on heading 300° and on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

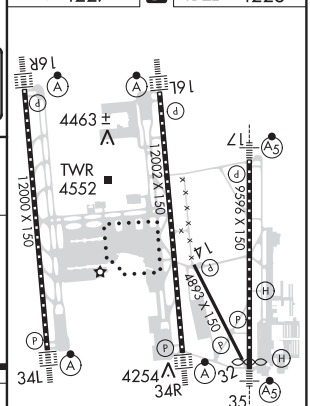
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	



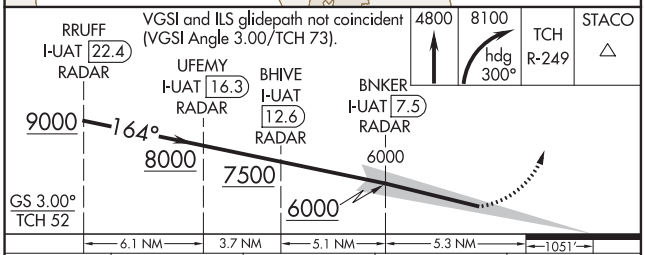
CLNC DEL	CPDLC
127.3 379.975	

ELEV 4227 | D | TDZE 4223



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 34L, 34R, and 35

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).



CATEGORY	A	B	C	D
S-ILS 16R	RA 157/14 150 DA 4373			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SALT LAKE CITY, UTAH | 40°47 N-111°59'W | SALT LAKE CITY INTL (SLC)

Amdt 3E 08NOV18

ILS RWY 16R (SA CAT I)

SW-4, 05 NOV 2020 to 31 DEC 2020

ILS RWY 34L (SA CAT I)
SALT LAKE CITY INTL (SLC)

LOC/DME I-UUH	APP CRS	Rwy ldg	12000
111.9	344°	TDZE	4226
Chan 56		Apt Elev	4227

RADAR required for arrivals at PUTER. DME or RADAR required.

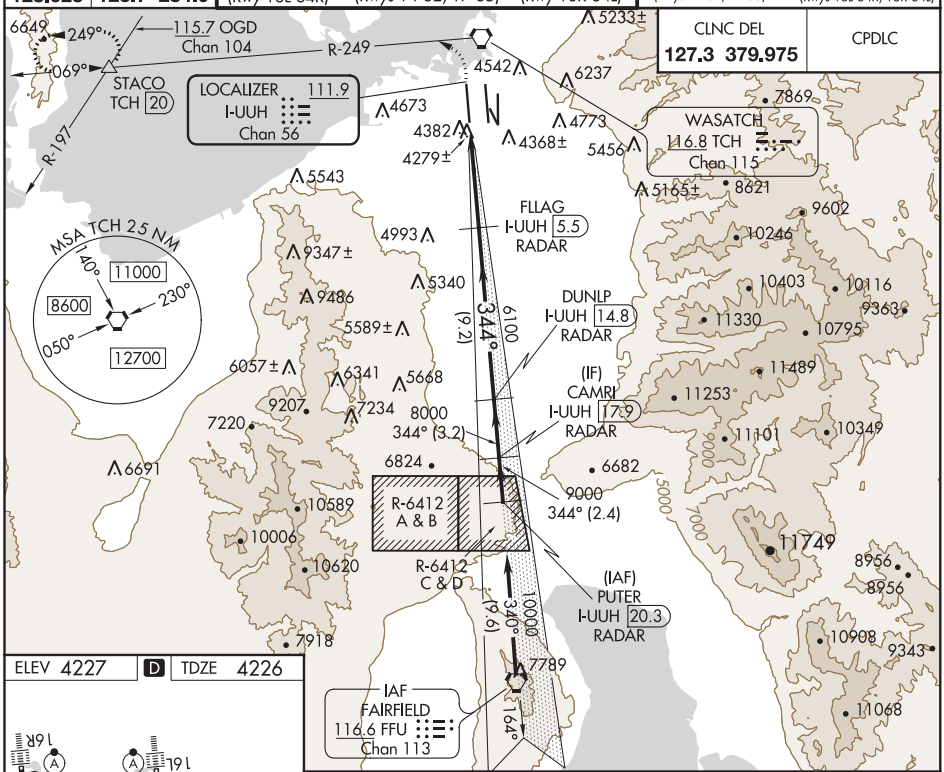
Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

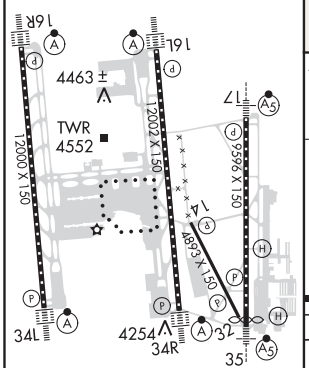
MISSED APPROACH: Climb to 4800 then climbing left turn to 8100 on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

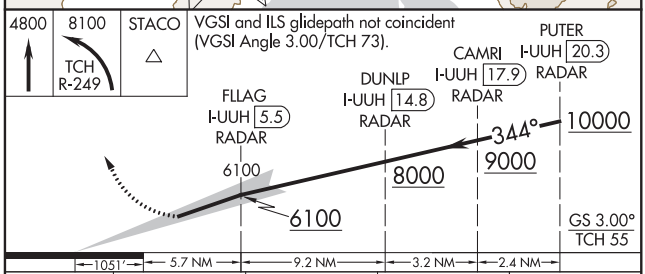
CLNC DEL 127.3 379.975 | CPDLC



ELEV 4227 | D | TDZE 4226



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



CATEGORY	A	B	C	D
S-ILS 34L	RA 158/14 150 DA 4376			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH

AL-365 (FAA)

20198

ILS RWY 34R (SA CAT I)

SALT LAKE CITY INTL (SLC)

LOC/DME I-SLC	APP CRS	Rwy ldg	12002
109.5	344°	TDZE	4222
Chan 32		Apt Elev	4227

DME or RADAR Required.

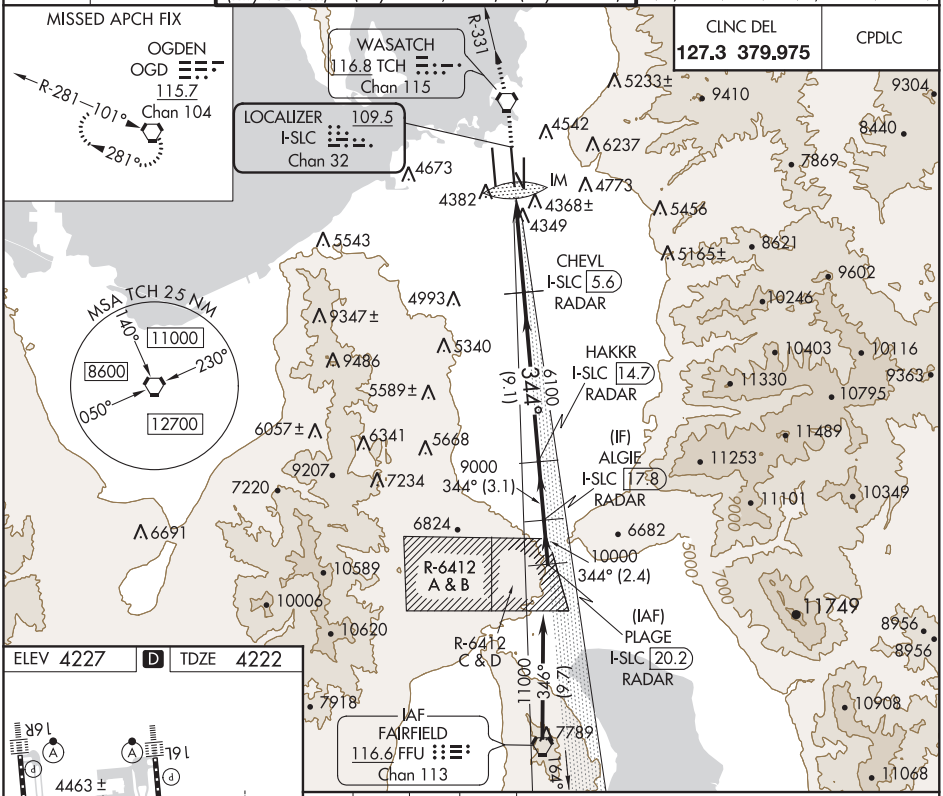
Simultaneous approach authorized.
Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

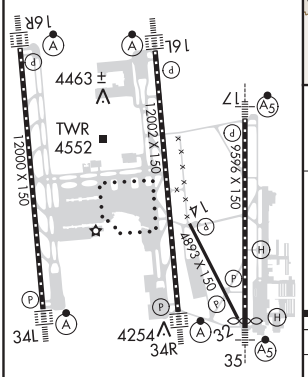
MISSED APPROACH: Climb to 9000 direct TCH VORTAC and on TCH VORTAC R-331 to OGD VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

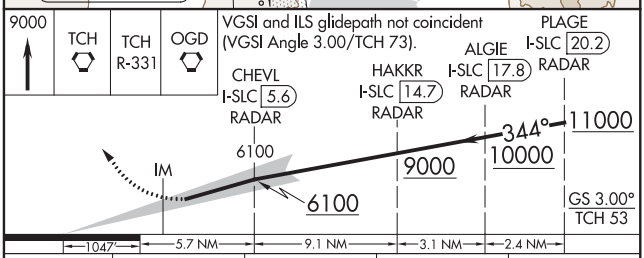
CLNC DEL 127.3 379.975 | CPDLC



ELEV 4227 | D | TDZE 4222



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



CATEGORY	A	B	C	D
S-ILS 34R	RA 151/14 150 DA 4372			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH
Amdt 4D 18JUL19

40°47'N-111°59'W

SALT LAKE CITY INTL (SLC)

ILS RWY 34R (SA CAT I)

ILS RWY 17 (SA CAT I & II)
SALT LAKE CITY INTL (SLC)

LOC/DME I-BNT	APP CRS	Rwy ldg	9597
111.5	169°	TDZE	4219
Chan 52		Apt Elev	4227

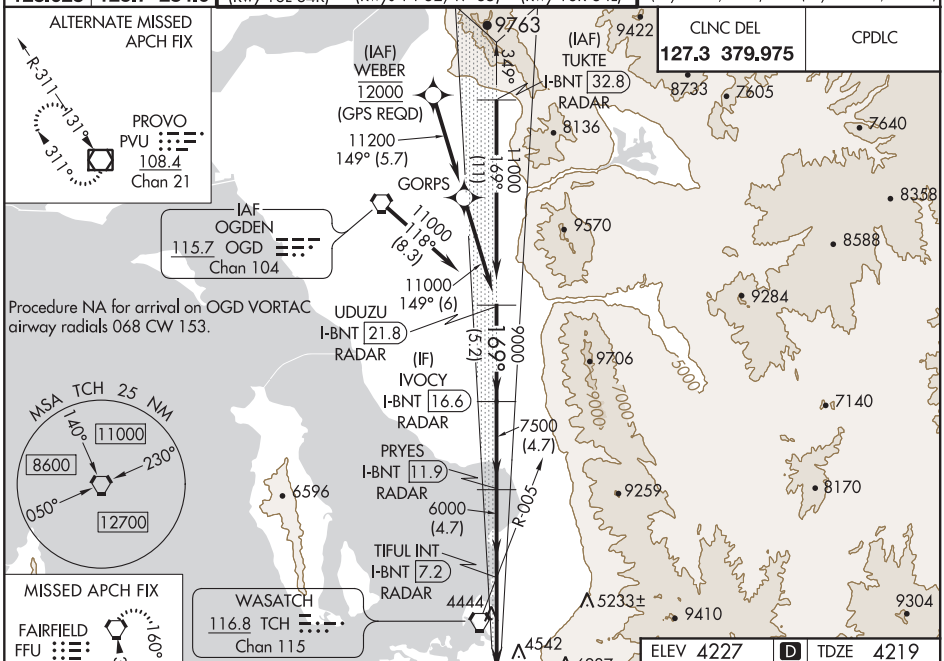
DME or RADAR required. Simultaneous approach authorized. SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. SA CAT II: Reduced lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

MALSR

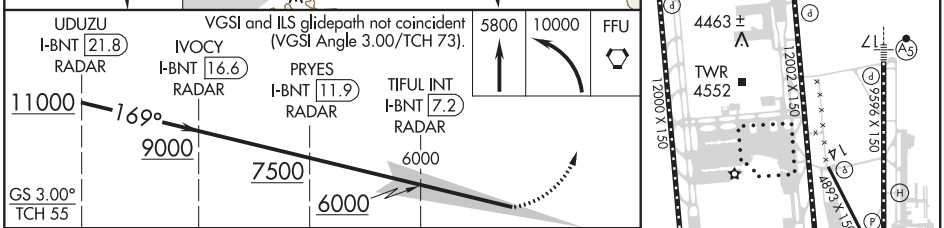
MISSED APPROACH: Climb to 5800 then climbing left turn to 10000 direct FFU VORTAC and hold.

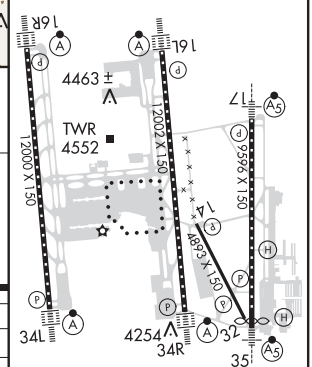
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	



ELEV 4227	D	TDZE 4219





HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

CATEGORY	A	B	C	D
S-ILS 17	SA CAT I RA 149/14 150 DA 4369			
S-ILS 17	SA CAT II RA 99/12 100 DA 4319			

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

ILS RWY 16L (CAT II & III)
SALT LAKE CITY INTL (SLC)

LOC/DME I-MOY 109.5 Chan 32	APP CRS 164°	Rwy ldg 12002 TDZE 4227 Apt Elev 4227

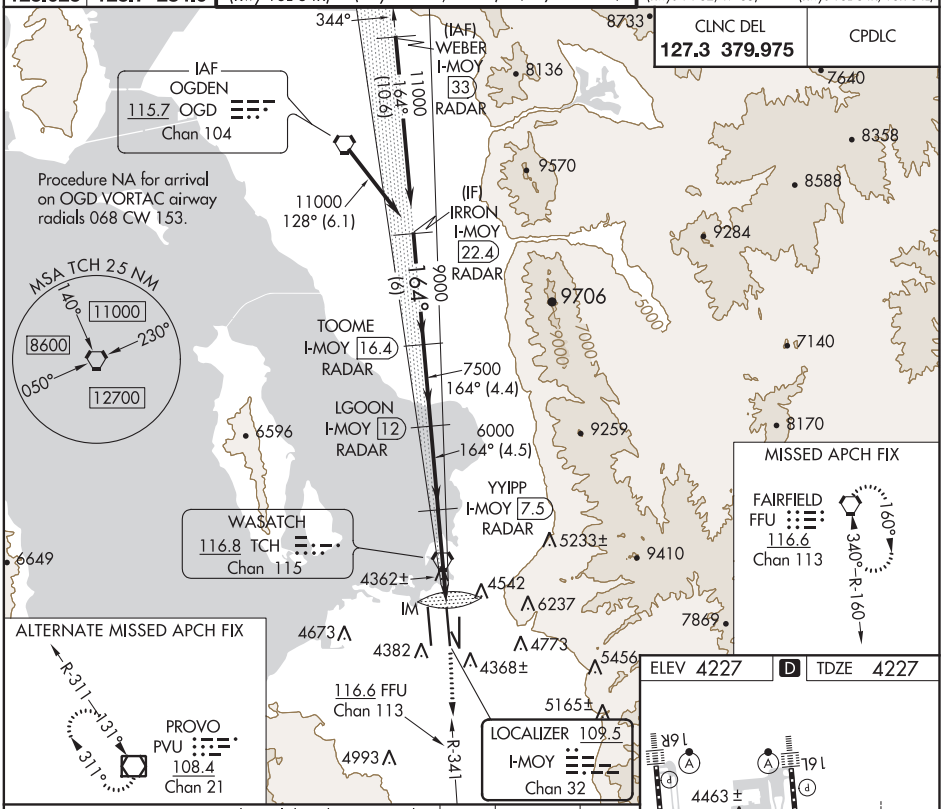
Simultaneous approach authorized. DME or RADAR required. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

MISSED APPROACH: Climb to 4800 then climb to 10000 via FFU VORTAC R-341 to FFU VORTAC and hold.

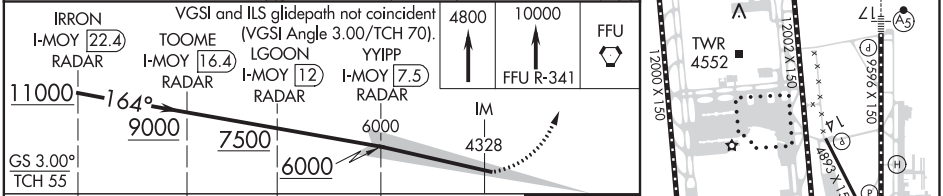
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

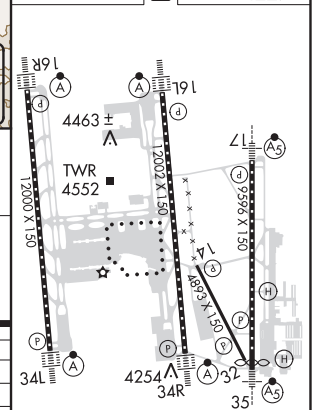
CLNC DEL 127.3 379.975 | CPDLC



CLNC DEL	CPDLC
127.3 379.975	

ELEV 4227 | D | TDZE 4227





HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 34L, 34R and 35

CATEGORY	A	B	C	D
S-ILS 16L	CAT II RA 108/12	100	DA 4327	
S-ILS 16L	CAT IIIa	RVR 07		
S-ILS 16L	CAT IIIb	RVR 03		
S-ILS 16L	CAT IIIc	NA		

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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | 40°47'N-111°59'W | SALT LAKE CITY INTL (SLC)

Amdt 3B 17AUG17

ILS RWY 16L (CAT II & III)

ILS RWY 16R (CAT II & III)
SALT LAKE CITY INTL (SLC)

LOC/DME I-UAT	APP CRS	Rwy ldg	12000
111.9	164°	TDZE	4223
Chan 56		Apt Elev	4227

DME or RADAR required.

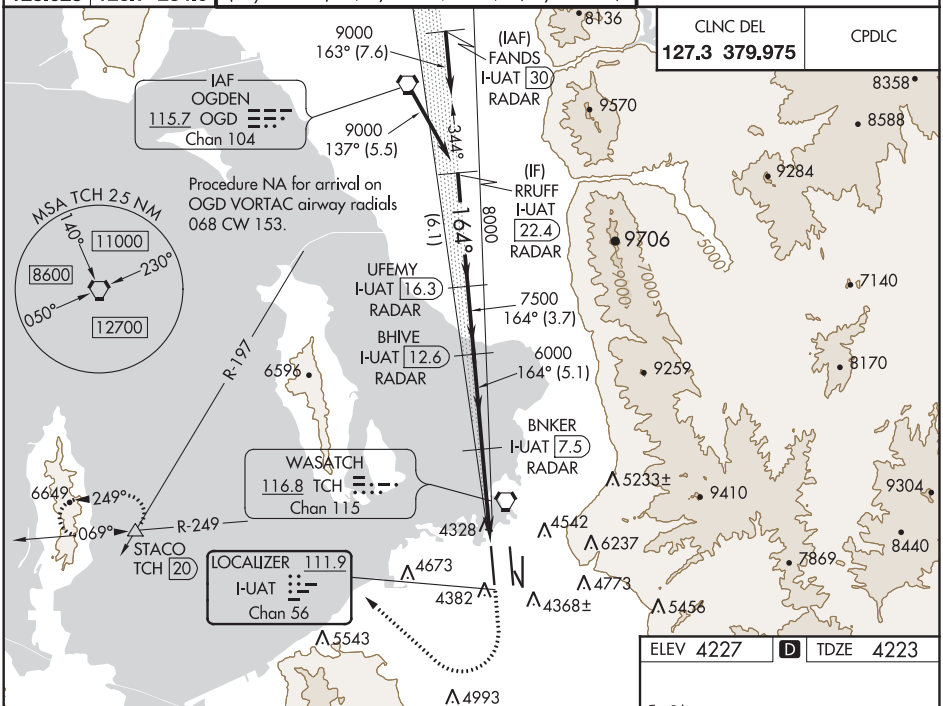
Simultaneous approach authorized.
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

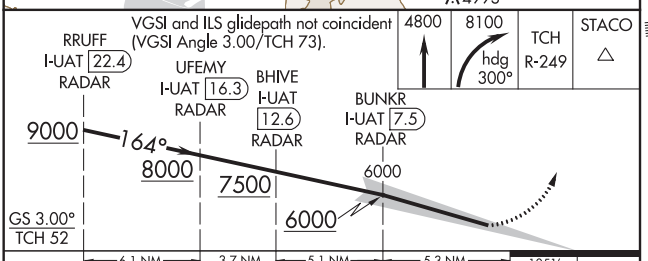
MISSED APPROACH: Climb to 4800 then climbing right turn to 8100 on heading 300° and on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

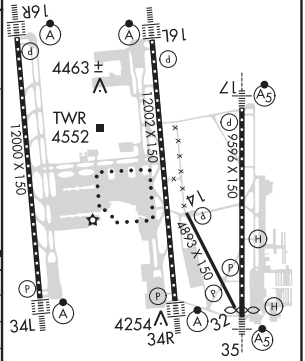
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC



VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).





HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 34L, 34R, and 35

CATEGORY	A	B	C	D
S-ILS 16R	CAT II RA 108/12 100 DA 4323			
S-ILS 16R	Cat IIIa RVR 07			
S-ILS 16R	Cat IIIb RVR 03			
S-ILS 16R	Cat IIIc NA			

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

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH AL-365 (FAA) 20198

ILS RWY 34L (CAT II & III)

SALT LAKE CITY INTL (SLC)

LOC/DME I-UUH	APP CRS	Rwy ldg 12000
111.9	344°	TDZE 4226
Chan 56		Apt Elev 4227

RADAR required for arrivals at PUTER. DME or RADAR required.

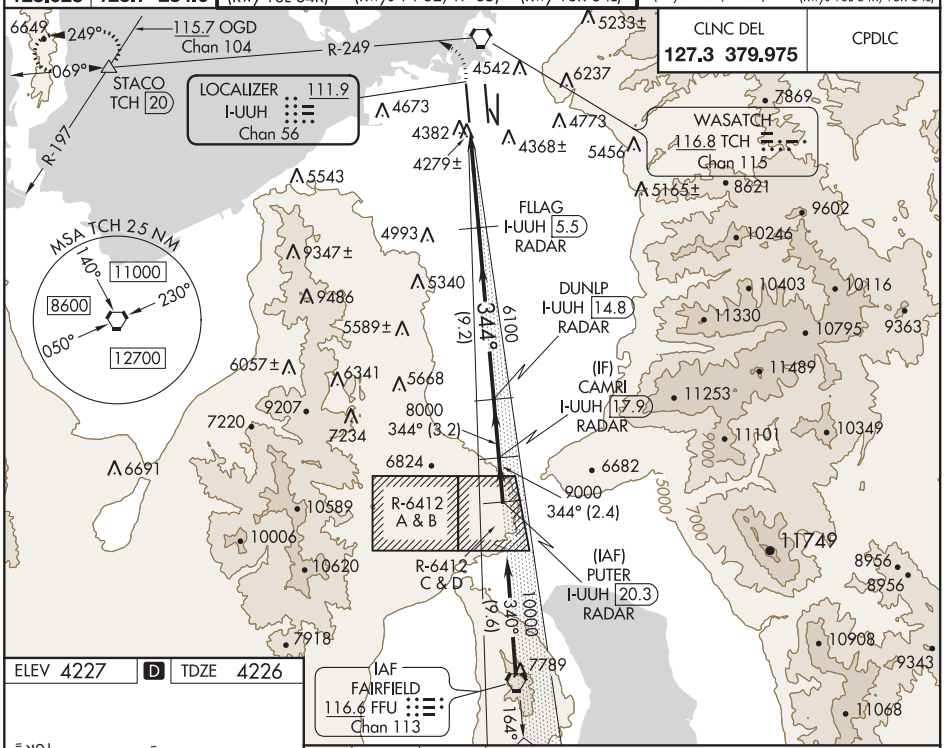
Simultaneous approach authorized.
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

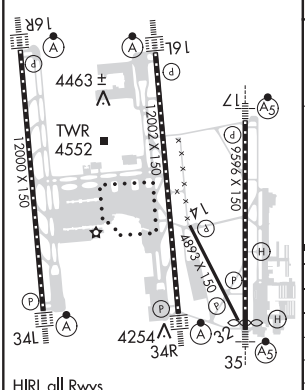
MISSED APPROACH: Climb to 4800 then climbing left turn to 8100 on TCH VORTAC R-249 to STACO INT/TCH 20 DME and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER	GND CON
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35) 123.775 348.6 (Rwys 16L-34R, 16R-34L)

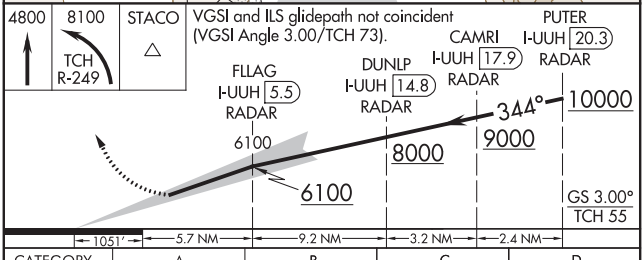
CLNC DEL 127.3 379.975 CPDLC



ELEV 4227 D TDZE 4226



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



CATEGORY	A	B	C	D
S-ILS 34L	CAT II RA 102/12 100 DA 4326			
S-ILS 34L	CAT IIIa RVR 07			
S-ILS 34L	CAT IIIb RVR 03			
S-ILS 34L	CAT IIIc NA			

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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH
Amdt 3D 08NOV18

SALT LAKE CITY INTL (SLC)
40°47'N-111°59'W
ILS RWY 34L (CAT II & III)

LOC/DME I-SLC	APP CRS	Rwy ldg 12002
109.5	344°	TDZE 4222
Chan 32		Apt Elev 4227

ILS RWY 34R (CAT II & III)

SALT LAKE CITY INTL (SLC)

DME or RADAR Required.

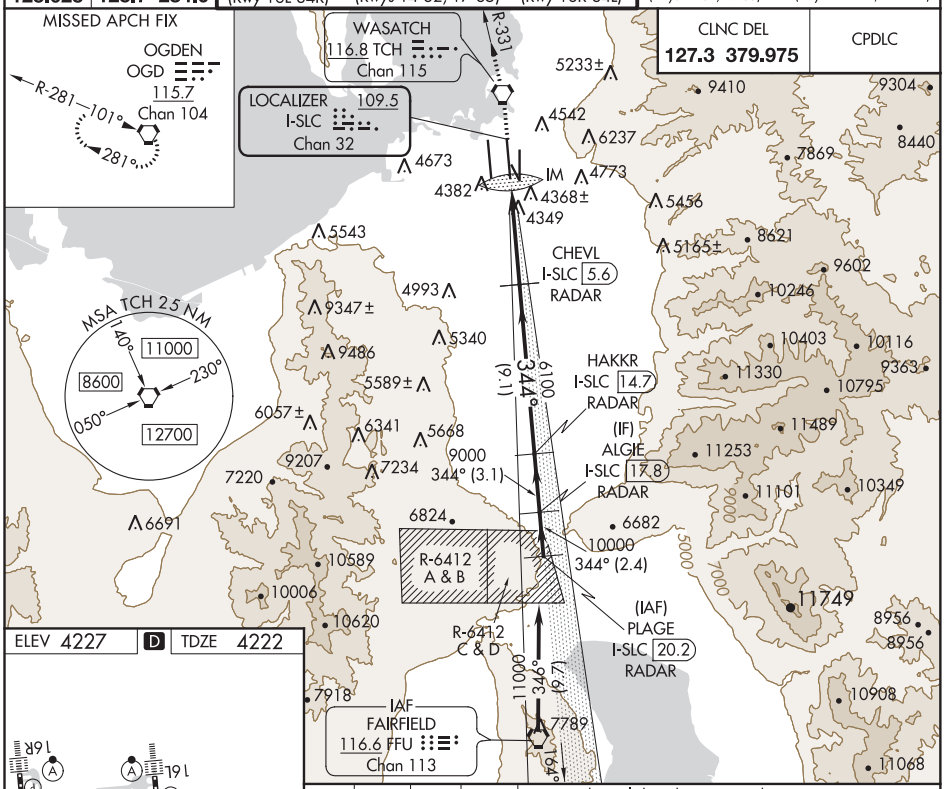
Simultaneous approach authorized.
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSF-2

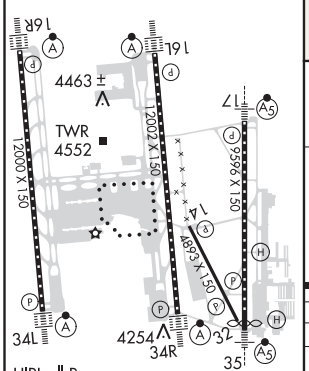
MISSED APPROACH: Climb to 9000 direct TCH VORTAC and on TCH VORTAC R-331 to OGD VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	119.05 257.8	118.3 257.8	132.65 336.4		121.9 348.6	123.775 348.6
125.625	125.7 284.6	(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

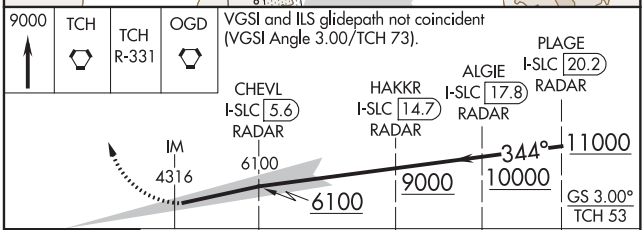
CLNC DEL 127.3 379.975 | CPDLC



ELEV 4227 | D | TDZE 4222



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



CATEGORY	A	B	C	D
S-ILS 34R	CAT II RA 100/12 100 DA 4322			
S-ILS 34R	CAT III RVR 03			

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

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH AL-365 (FAA) 20198

RNAV (GPS) RWY 16L
SALT LAKE CITY INTL (SLC)

APP CRS	Rwy ldg	12002
164°	TDZE	4227
	Apt Elev	4227

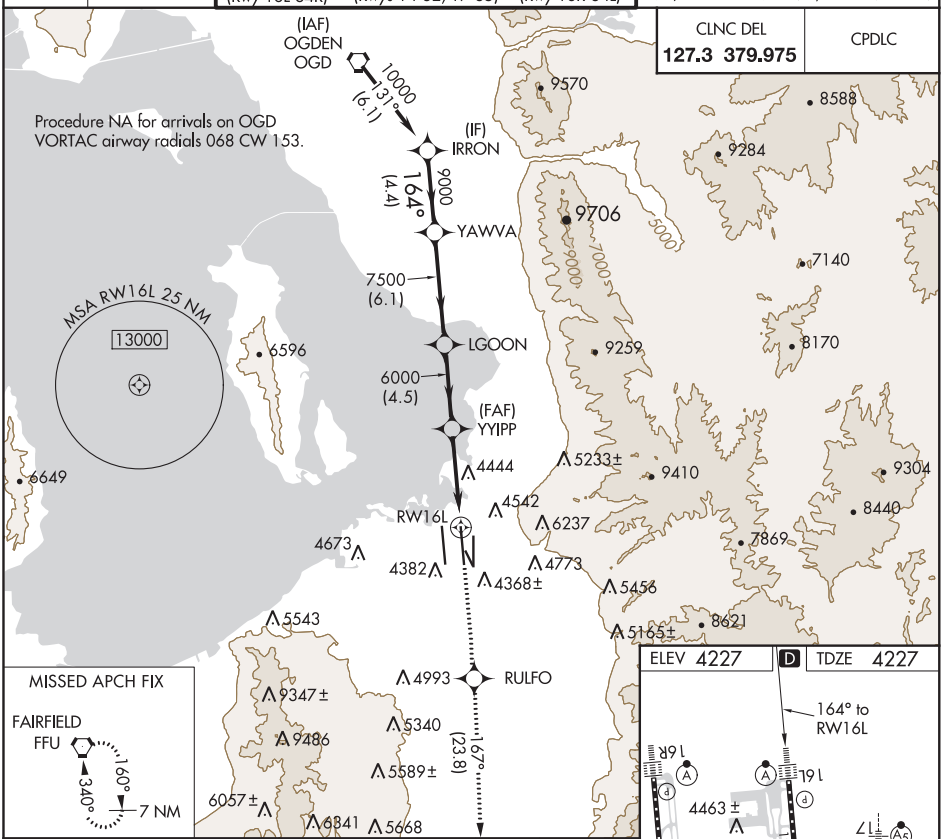
DME/DME RNP- 0.3 NA.
For inop ALS, increase LNAV Cat E visibility to 2 SM.

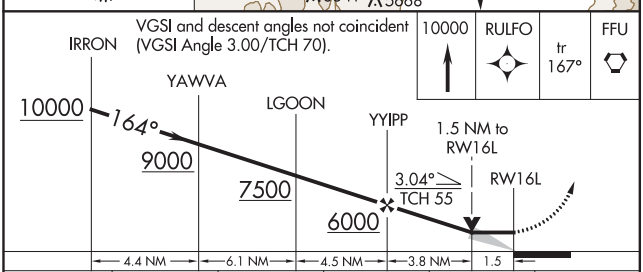
ALSF-2

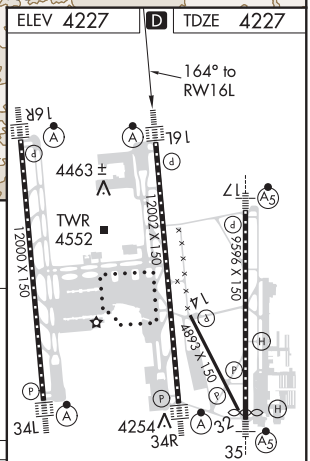
MISSED APPROACH: Climb to 10000 direct RULFO and on track 167° to FFU VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	







HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

CATEGORY	A	B	C	D	E
LNAV MDA	4760/24	533 (600-½)	4760/50 533 (600-1)	4760/60 533 (600-1¼)	4760-1½ 533 (600-1½)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH 40°47'N-111°59'W
Amdt 1A 17AUG17

SALT LAKE CITY INTL (SLC)
RNAV (GPS) RWY 16L

RNAV (GPS) RWY 16R
SALT LAKE CITY INTL (SLC)

APP CRS	Rwy ldg	12000
164°	TDZE	4223
	Apt Elev	4227

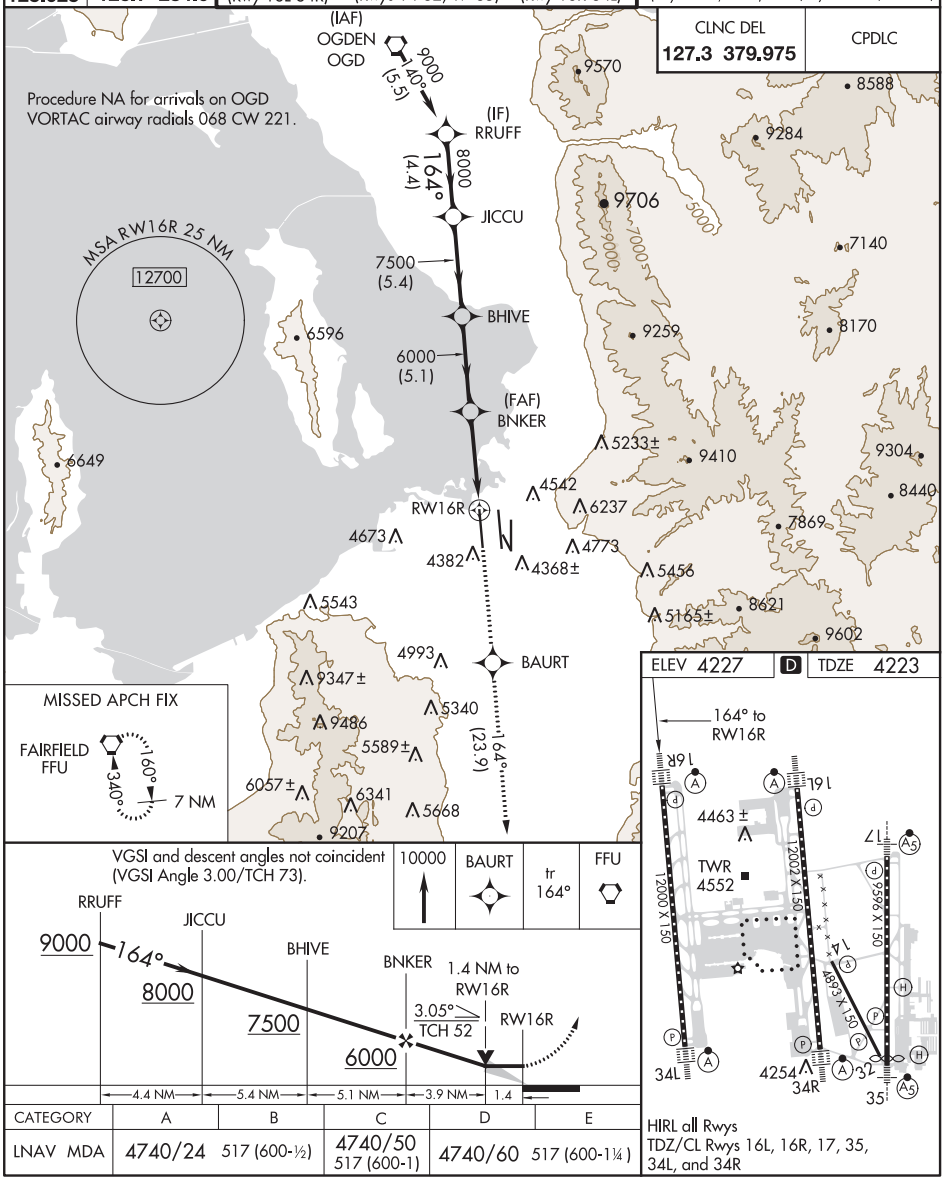
DME/DME RNP- 0.3 NA.
For inop ALS, increase LNAV Cat E visibility to 1¾ SM.

ALSF-2

MISSED APPROACH: Climb to 10000 direct BAURT and on track 164° to FFU VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC



MISSED APCH FIX

ELEV 4227 | D | TDZE 4223

HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

VGSI and descent angles not coincident
(VGSI Angle 3.00/TCH 73).

10000	BAURT	tr 164°	FFU

CATEGORY	A	B	C	D	E
LNAV MDA	4740/24 517 (600-½)		4740/50 517 (600-1)	4740/60 517 (600-1¼)	

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

RNAV (GPS) RWY 17
SALT LAKE CITY INTL (SLC)

WAAS CH 82338 W17A	APP CRS 169°	Rwy ldg 9597 TDZE 4219 Apt Elev 4227

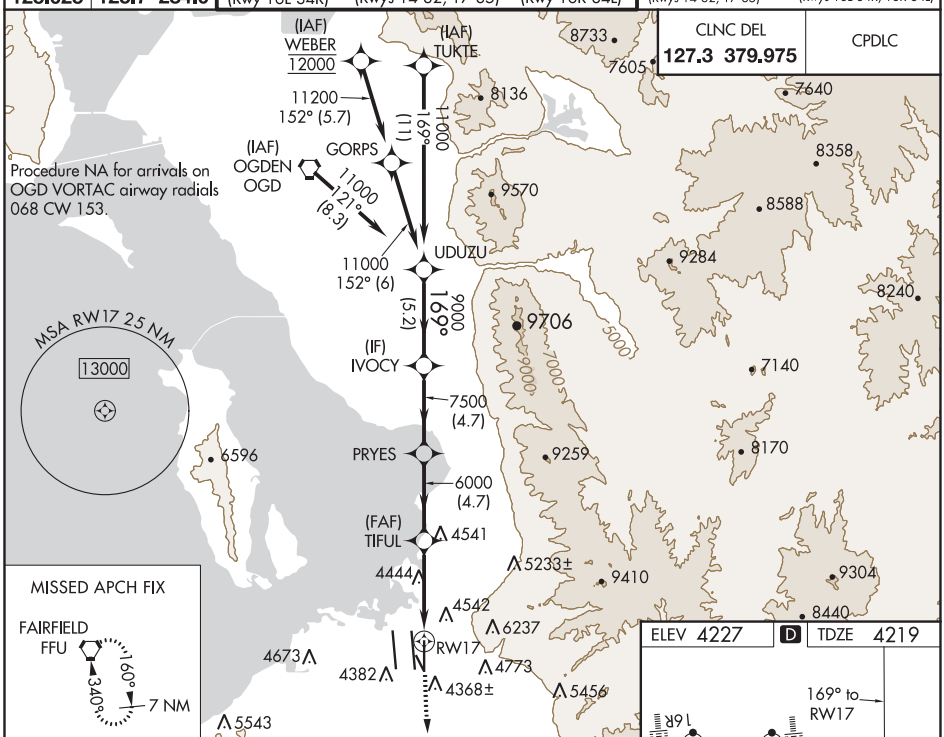
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -14°C (7°F) or above 49°C (121°F). DME/DME RNP-0.3 NA. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to RVR 6000, and LNAV Cat C/D/E visibility to 1⅜ SM. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

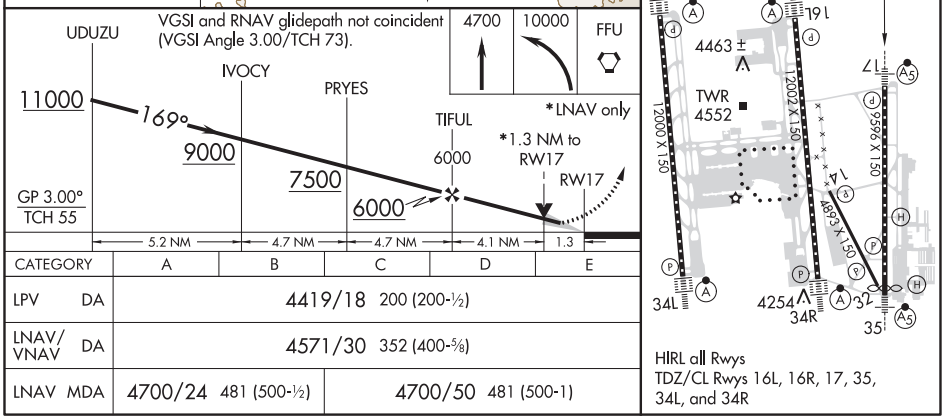
MALSR

MISSED APPROACH: Climb to 4700 then climbing left turn to 10000 direct FFU VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER	GND CON
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R); 118.3 257.8 (Rwys 14-32, 17-35); 132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35); 123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC





CATEGORY	A	B	C	D	E
LPV DA	4419/18 200 (200-½)				
LNAV/VNAV DA	4571/30 352 (400-⅝)				
LNAV MDA	4700/24 481 (500-½)		4700/50 481 (500-1)		

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 70432 W34B	APP CRS 344°	Rwy ldg 12000 TDZE 4226 Apt Elev 4227

RNAV (GPS) RWY 34L
SALT LAKE CITY INTL (SLC)

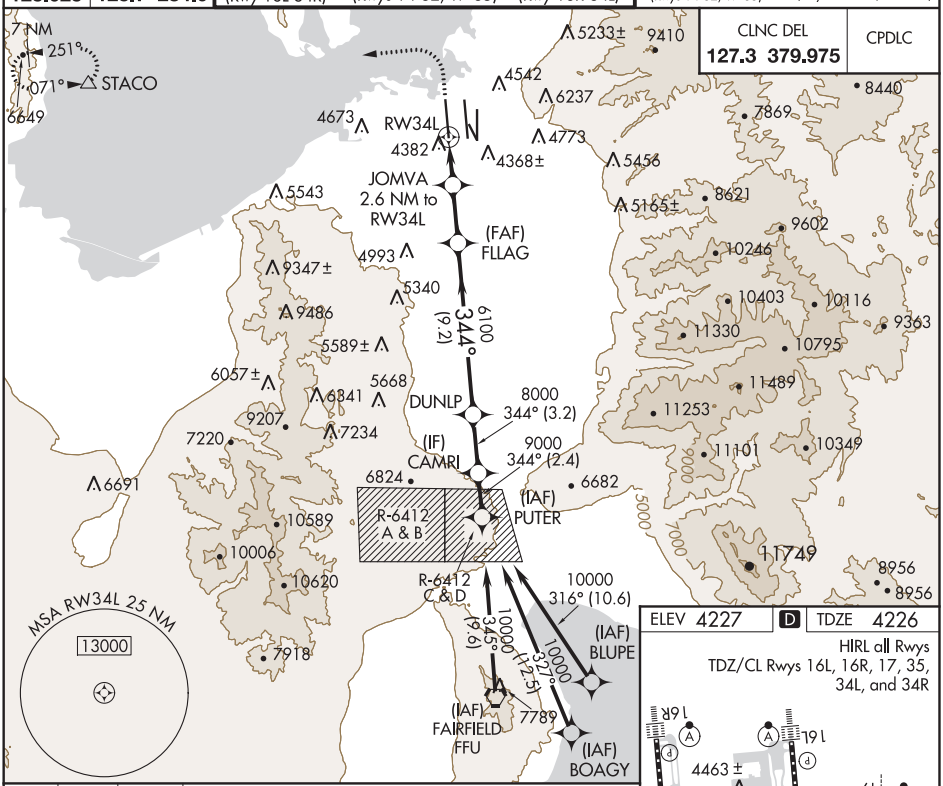
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 49°C (121°F). Simultaneous approach authorized. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to RVR 6000, LNAV Cat E visibility to 1¼ SM.

ALSF-2

MISSED APPROACH: Climb to 4800 then climbing left turn to 8100 direct STACO and hold.

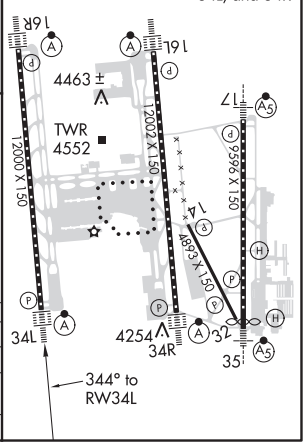
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

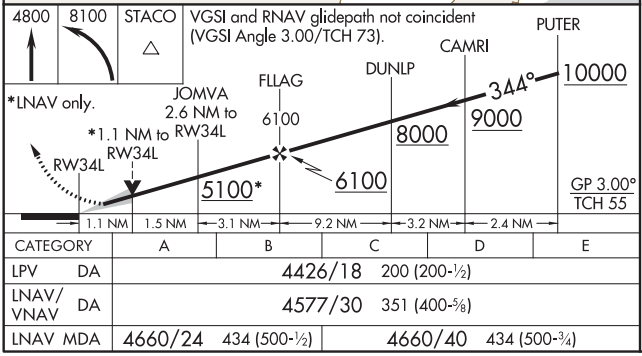
CLNC DEL 127.3 379.975 | CPDLC



ELEV 4227	D	TDZE 4226

HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R





CATEGORY	A	B	C	D	E
LPV DA	4426/18 200 (200-½)				
LNAV/VNAV DA	4577/30 351 (400-⅝)				
LNAV MDA	4660/24 434 (500-½)		4660/40 434 (500-¾)		

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

RNAV (GPS) RWY 34R
SALT LAKE CITY INTL (SLC)

WAAS CH 49230 W34A	APP CRS 344°	Rwy ldg 12002 TDZE 4222 Apt Elev 4227

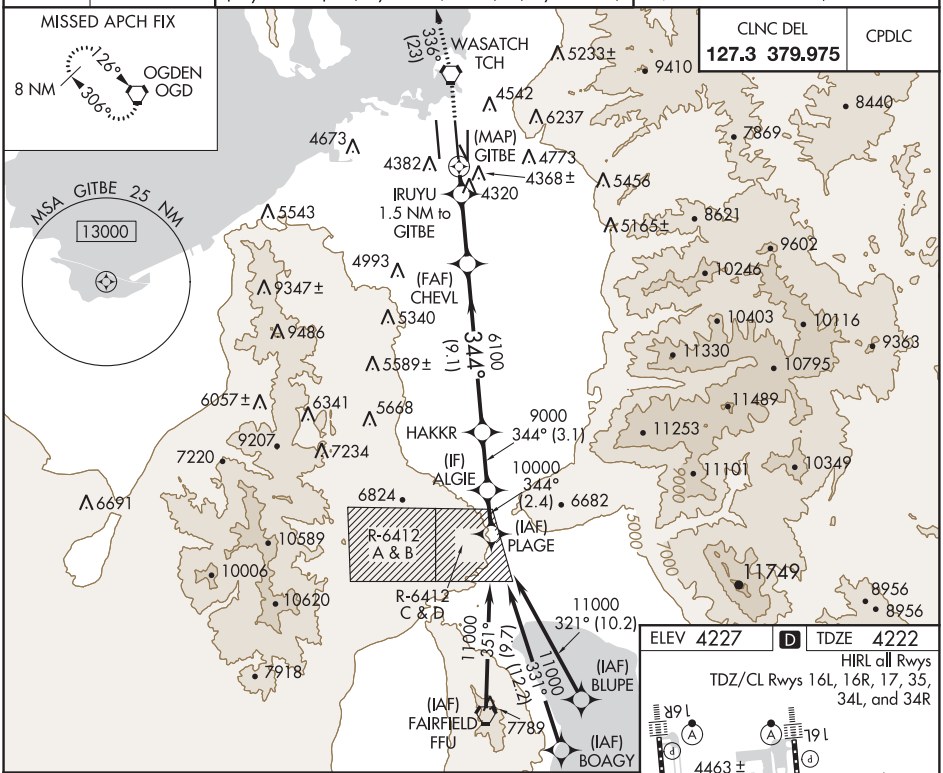
T NA Simultaneous approach authorized. DME/DME RNP-0.3 NA. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (1°F) or above 49°C (121°F). For inop ALS, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1¾ and LNAV Cats C/D/E to 1⅜ SM.

ALSF-2

MISSED APPROACH: Climb to 9000 direct TCH VORTAC and on track 336° to OGD VORTAC and hold.

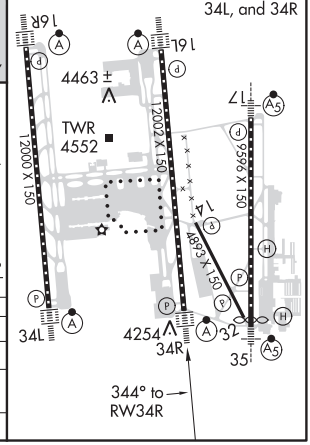
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER	GND CON
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35) 123.775 348.6 (Rwy 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC



ELEV 4227 | D | TDZE 4222

HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



CATEGORY		A	B	C	D	E
LPV	DA	4422/18 200 (200-½)				
LNAV/VNAV	DA	4735/60 513 (600-1¼)				
LNAV	MDA	4700/24 478 (500-½)		4700/50 478 (500-1)		

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | 40°47′N-111°59′W | SALT LAKE CITY INTL (SLC)

Amdt 1C 07DEC17

RNAV (GPS) RWY 34R

RNAV (GPS) RWY 35
SALT LAKE CITY INTL (SLC)

WAAS CH 77722 W35A	APP CRS 344°	Rwy ldg 9273 TDZE 4224 Apt Elev 4227

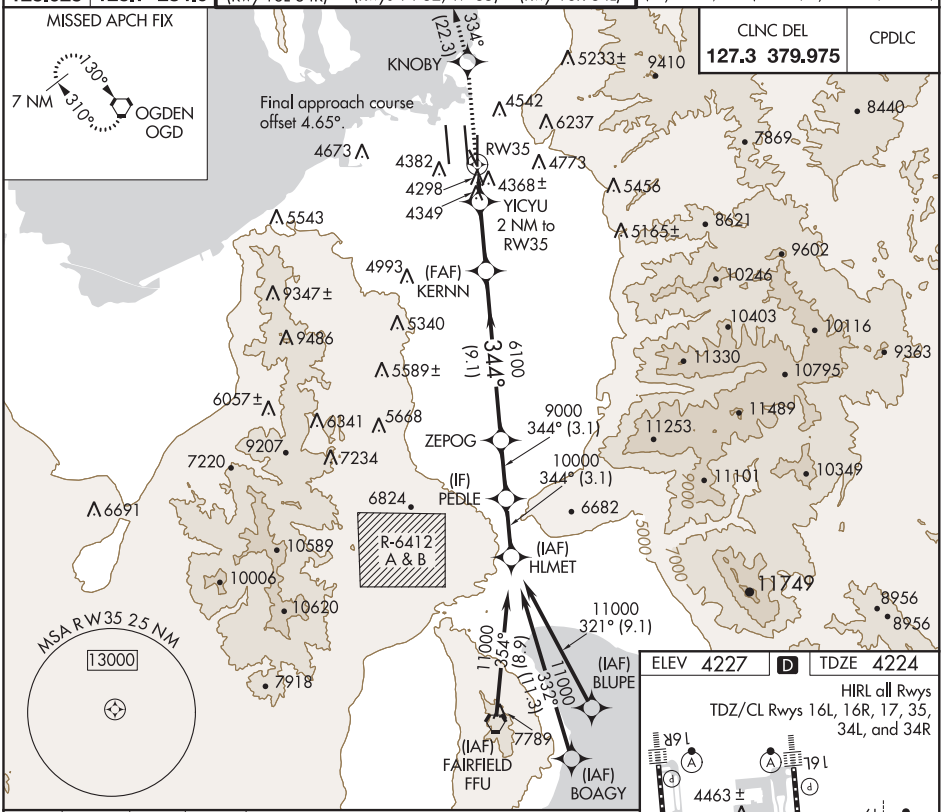
T DME/DME RNP-0.3 NA. For inop ALS, increase LP Cat E to RVR 5000, increase LNAV Cat E to 1½ SM.

MALSR

MISSED APPROACH: Climb to 9000 direct KNOBY and on track 334° to OGD VORTAC and hold.

D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75 125.625	125.7 284.6	119.05 257.8 (Rwy 16L-34R)	118.3 257.8 (Rwys 14-32, 17-35)	132.65 336.4 (Rwy 16R-34L)	121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)

CLNC DEL	CPDLC
127.3 379.975	



CATEGORY	A	B	C	D	E
LP MDA	4560/24 336 (400-½)		4560/26 336 (400-½)		
LNAV MDA	4760/24 536 (600-½)		4760/55 536 (600-1)		

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE CITY, UTAH | AL-365 (FAA) | 20198

LOC/DME I-UTJ	APP CRS	Rwy ldg	9273
111.5	344°	TDZE	4224
Chan 52		Apt Elev	4227

LDA RWY 35
SALT LAKE CITY INTL (SLC)

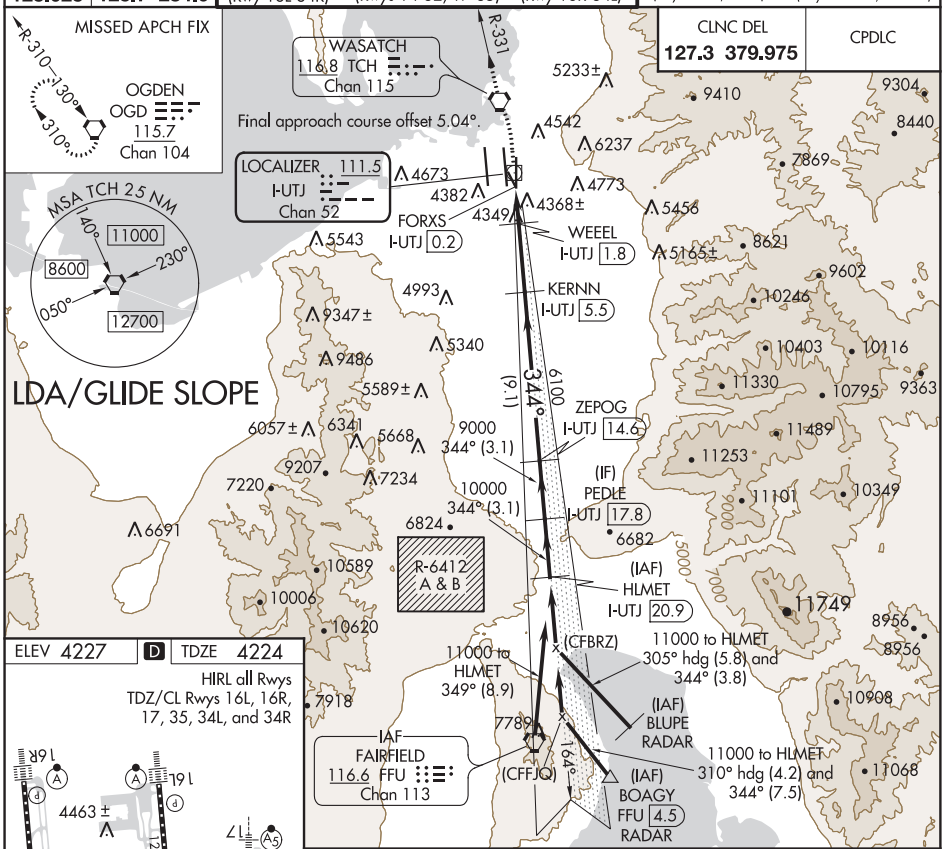
Simultaneous approach authorized. DME required.
For inop ALS, increase S-LDA/GS 35 Cat E visibility to RVR 4000, increase S-LDA 35 Cat E visibility to 1¼ SM.

MALSR

MISSED APPROACH: Climb to 4800 then climbing left turn to 9000 direct TCH VORTAC and on TCH VORTAC R-331 to OGD VORTAC and hold.

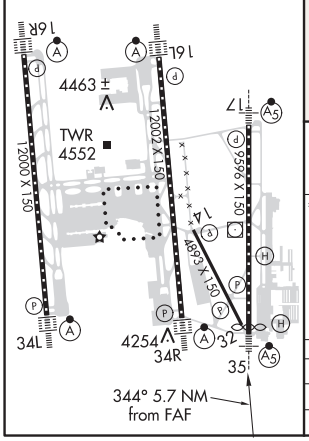
D-ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON	
124.75	125.7 284.6	119.05 257.8	118.3 257.8	132.65 336.4	121.9 348.6	123.775 348.6
125.625		(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)

CLNC DEL 127.3 379.975 | CPDLC



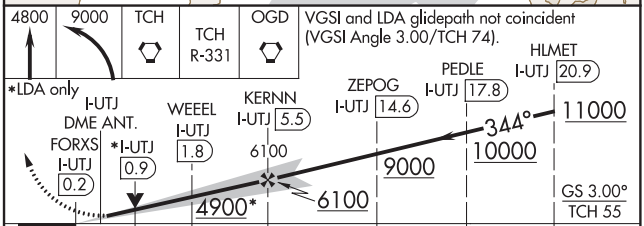
ELEV 4227 | D | TDZE 4224

HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R



4800	9000	TCH	TCH R-331	OGD

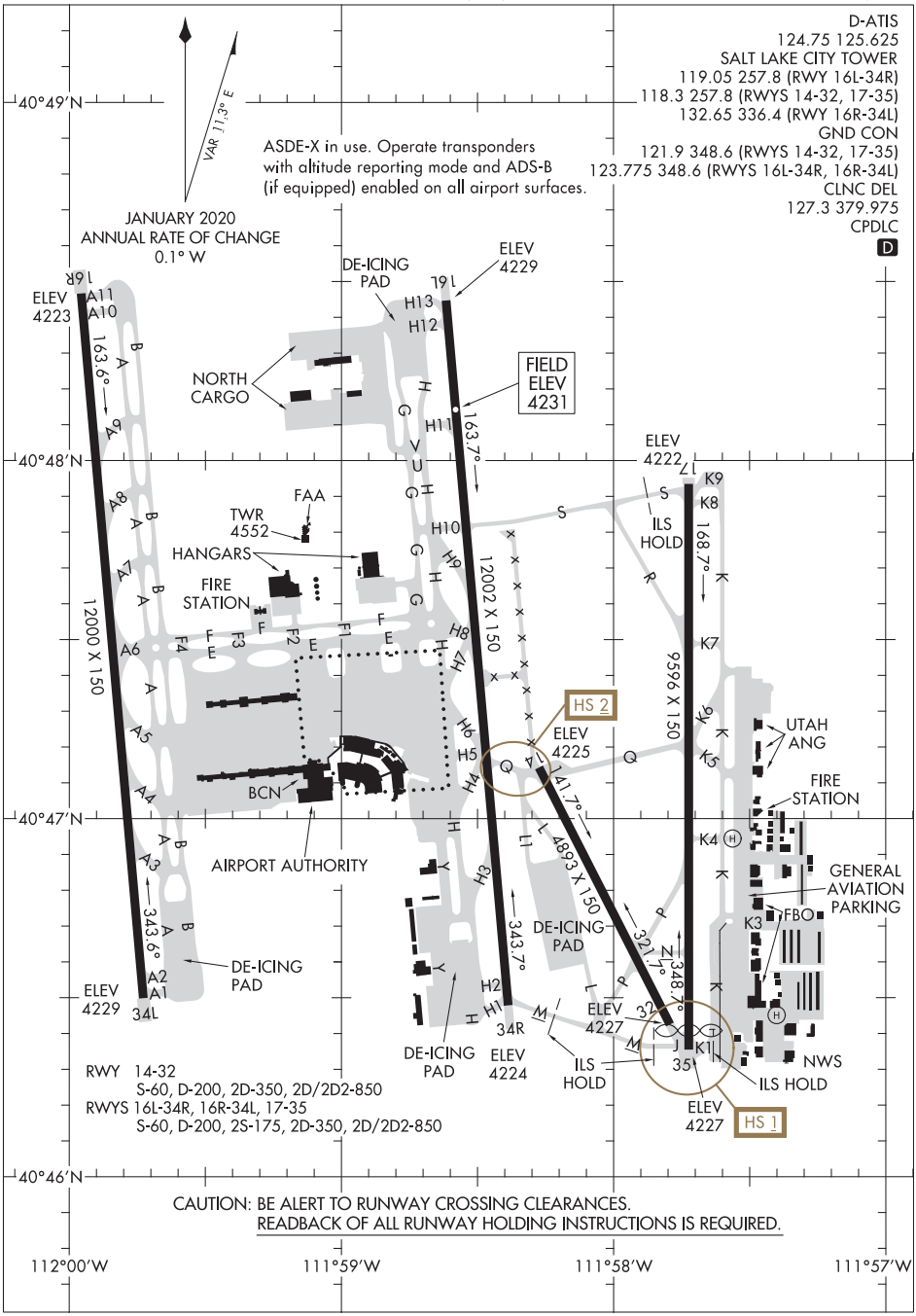
VGSI and LDA glidepath not coincident (VGSI Angle 3.00/TCH 74).



CATEGORY	A	B	C	D	E
S-LDA/GS 35	4474/24 250 (300-½)				
S-LDA 35	4660/24 436 (500-½)		4660/40 436 (500-¾)		

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(ARCHZ1.ARCHZ) 18144

ARCHZ ONE DEPARTURE (RNAV)

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)
SALT LAKE CITY, UTAH

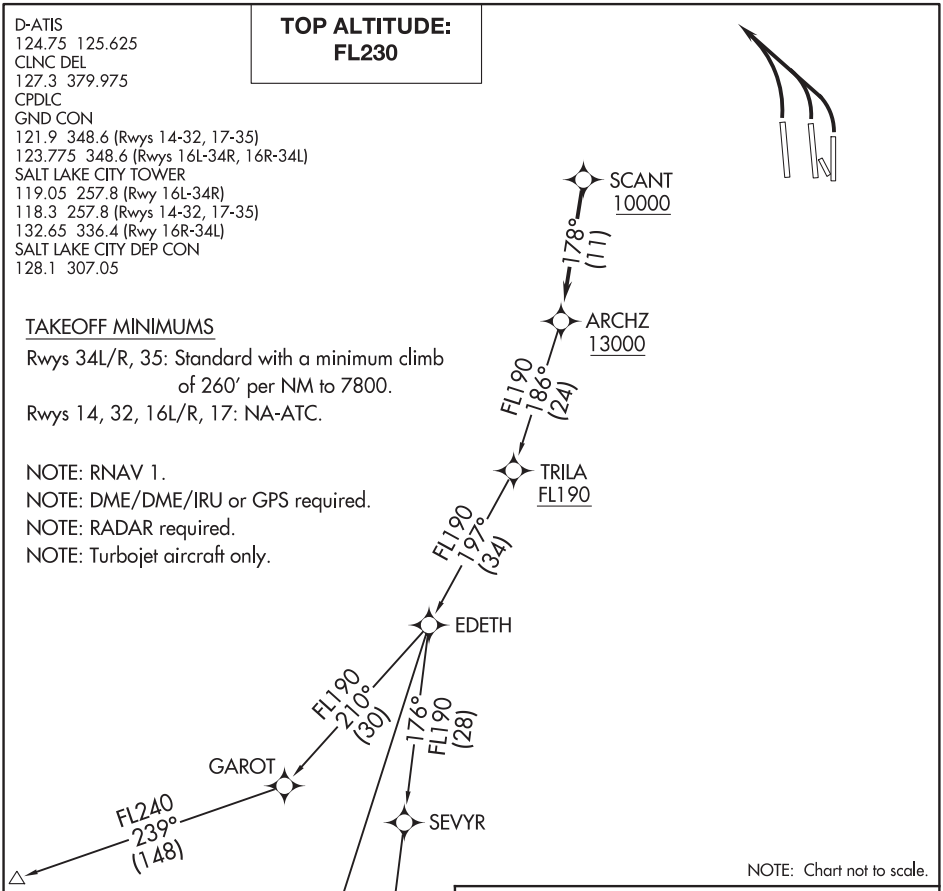
TOP ALTITUDE: FL230

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwy 16R-34L)
SALT LAKE CITY DEP CON
128.1 307.05

TAKEOFF MINIMUMS

Rwys 34L/R, 35: Standard with a minimum climb of 260′ per NM to 7800.
Rwys 14, 32, 16L/R, 17: NA-ATC.

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



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 34L/R, 35: Climbing left turn on a heading between 320° CCW 260° as assigned by ATC, thence . . . .

. . . . on RADAR vectors to cross SCANT at or above 10000, then on track 178° to cross ARCHZ at or above 13000, then on (transition). Maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

KROST TRANSITION (ARCHZ1.KROST)
MILFORD TRANSITION (ARCHZ1.MLF)
WINEN TRANSITION (ARCHZ1.WINEN)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

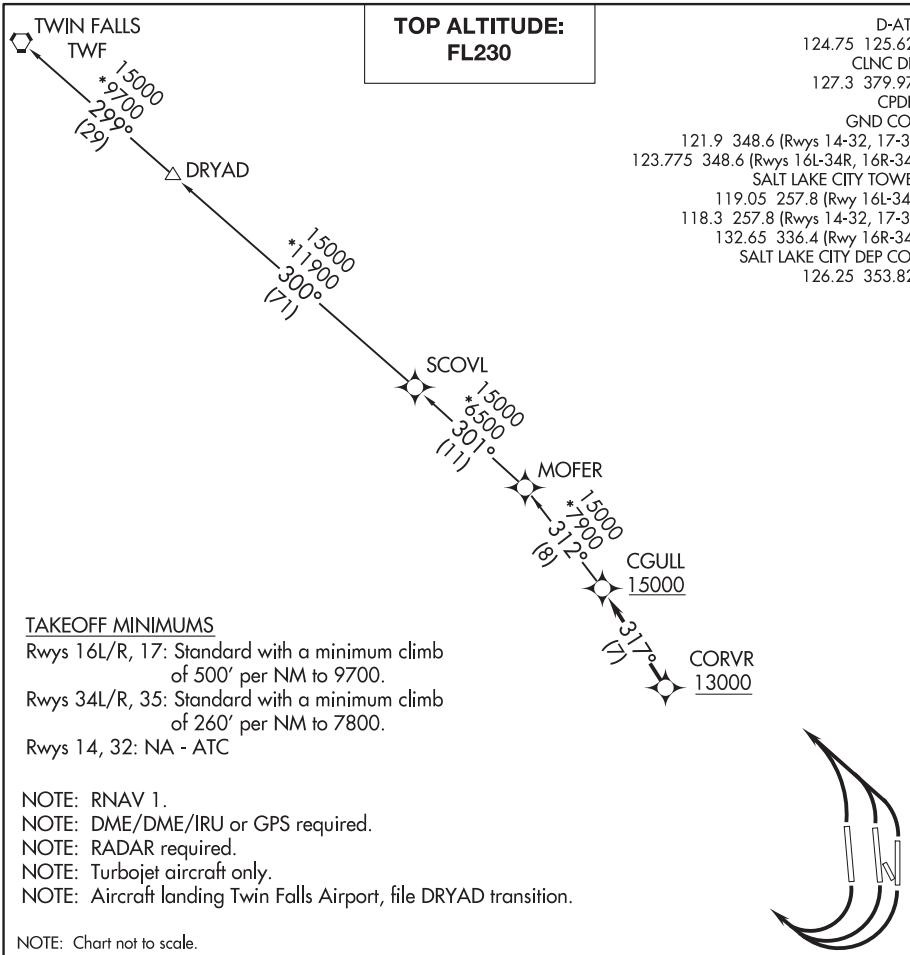
ARCHZ ONE DEPARTURE (RNAV)

(ARCHZ1.ARCHZ) 24MAY18

SALT LAKE CITY, UTAH
SALT LAKE CITY INTL (SLC)

TOP ALTITUDE: FL230

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwy 16R-34L)
SALT LAKE CITY DEP CON
126.25 353.825



TAKEOFF MINIMUMS
Rwys 16L/R, 17: Standard with a minimum climb of 500′ per NM to 9700.
Rwys 34L/R, 35: Standard with a minimum climb of 260′ per NM to 7800.
Rwys 14, 32: NA - ATC

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft only.
NOTE: Aircraft landing Twin Falls Airport, file DRYAD transition.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R, 17: Climbing right turn on a heading between 280° CW 340° as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 34L/R, 35: Climbing left turn on a heading between 320° CCW 260° as assigned by ATC, thence. . . .

. . . .on RADAR vectors to cross CORVR at or above 13000, then on track 317° to cross CGULL at or above 15000, then on (transition). Maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

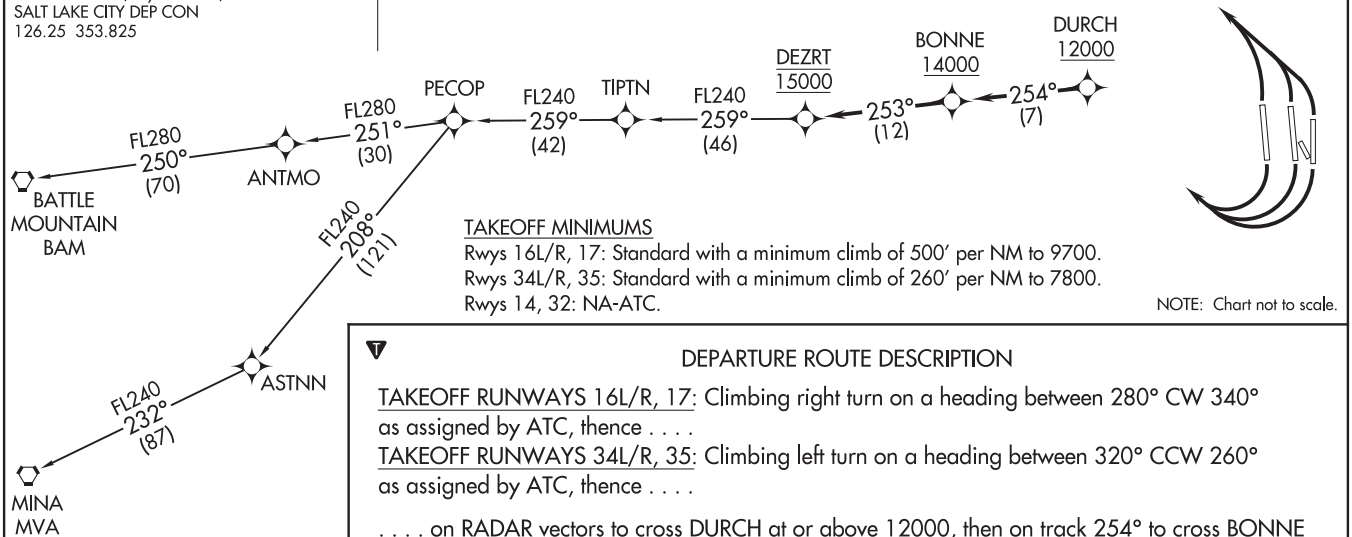
DRYAD TRANSITION (CGULL1.DRYAD)

TWIN FALLS TRANSITION (CGULL1.TWF)

TOP ALTITUDE: 15000

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft only.
NOTE: For non-GPS equipped aircraft: TWF and REO DMEs must be operational for BATTLE MOUNTAIN TRANSITION.

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwy 16R-34L)
SALT LAKE CITY DEP CON
126.25 353.825



TAKEOFF MINIMUMS
Rwys 16L/R, 17: Standard with a minimum climb of 500′ per NM to 9700.
Rwys 34L/R, 35: Standard with a minimum climb of 260′ per NM to 7800.
Rwys 14, 32: NA-ATC.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R, 17: Climbing right turn on a heading between 280° CW 340° as assigned by ATC, thence . . . .
TAKEOFF RUNWAYS 34L/R, 35: Climbing left turn on a heading between 320° CCW 260° as assigned by ATC, thence . . . .

. . . . on RADAR vectors to cross DURCH at or above 12000, then on track 254° to cross BONNE at or above 14000, then on track 253° to cross DEZRT at 15000, then on (transition). Maintain 15000. Expect filed altitude 10 minutes after departure.

BATTLE MOUNTAIN TRANSITION (DEZRT1.BAM)

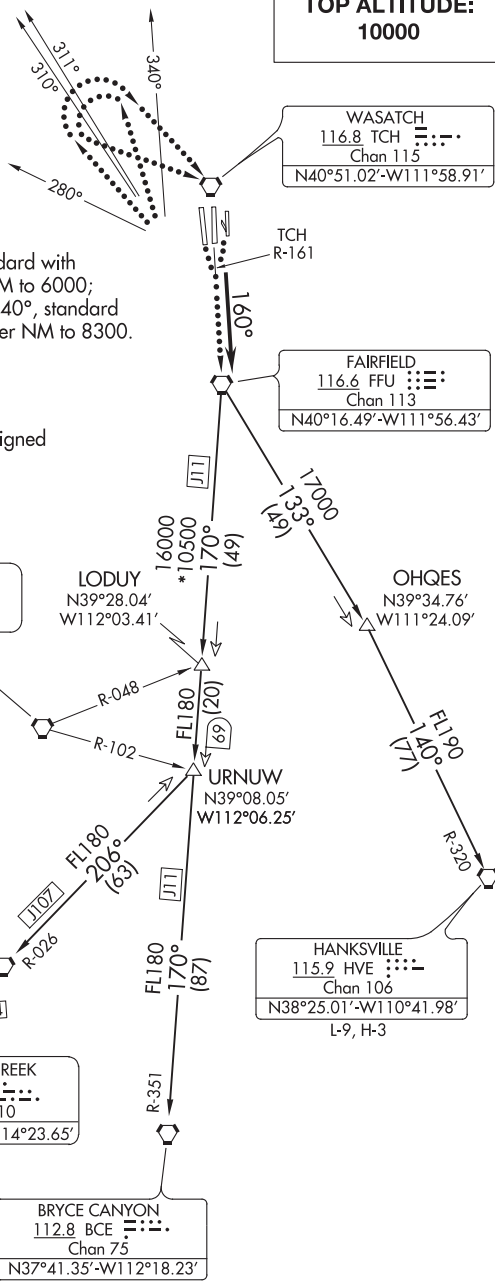
MINA TRANSITION (DEZRT1.MVA)

FAIRFIELD NINE DEPARTURE

AL-365 (FAA)

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
SALT LAKE CITY DEP CON
128.6 322.3

TOP ALTITUDE: 10000



TAKEOFF MINIMUMS

Rwys 14, 32, 34L/R, 35: NA- ATC.

Rwys 16L/R, 17: Assigned heading 160°, standard with minimum climb of 260′ per NM to 6000; assigned heading 280° CW 340°, standard with minimum climb of 400′ per NM to 8300.

NOTE: DME required.

NOTE: RADAR required.

NOTE: This is a RADAR vector departure to assigned route or fix.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R, 17: Climb on heading 160° or as assigned, maintain 10000 or assigned lower altitude. Thence . . . .
. . . . expect RADAR vectors to FFU VORTAC then on filed/assigned transition.
Expect clearance to filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with departure control 1 minute after takeoff:
RUNWAYS 16L and 17: Assigned heading 160°, turn right, thence . . . .
RUNWAY 16R: Assigned heading 160°, turn left, thence . . . .
. . . . climb to 11000 via TCH R-161 to FFU VORTAC and continue climb via assigned/filed transition.
RUNWAYS 16L/R, 17: Assigned heading 280° CW 340°, fly assigned heading to 11000. Then, aircraft heading 280° CW 310°, execute a climbing right turn, thence . . . .
. . . . aircraft heading 311° CW 340°, execute a climbing left turn, thence . . . .
. . . . direct TCH VORTAC, TCH R-161 to FFU VORTAC, and continue climb via assigned/filed transition.

BRYCE CANYON TRANSITION (FFU9.BCE): From over FFU VORTAC on FFU R-170 to URNUW, then on FFU R-170 and BCE R-351 to BCE VORTAC.
COALDALE TRANSITION (FFU9.OAL): From over FFU VORTAC on FFU R-170 and MLF R-026 to MLF VORTAC, then on MLF R-249 and ILC R-068 to ILC VORTAC, then on ILC R-249 and TPH R-066 to TPH VORTAC, then on TPH R-251 and OAL R-070 to OAL VORTAC.
HANKSVILLE TRANSITION (FFU9.HVE): From over FFU VORTAC on FFU R-133 and HVE R-320 to HVE VORTAC.
MILFORD TRANSITION (FFU9.MLF): From over FFU VORTAC on FFU R-170 and MLF R-026 to MLF VORTAC.

TOP ALTITUDE: FL230

NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft only.
NOTE: Aircraft landing Denver Intl Airport, file the PERTY transition.

TAKEOFF MINIMUMS
Rwys 16L/R, 17: Standard with a minimum climb of 500' per NM to 9700.
Rwy 34L/R, 35: Standard with a minimum climb of 500' per NM to 8500.
Rwys 14, 32: NA-ATC.

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwys 16R-34L)
SALT LAKE CITY DEP CON
135.5 316.15

HOLTR
SAWGI
KLOUD
RUGGD
BUBBY 11000
SPINE
SKIII
POPLE
ROCK SPRINGS OCS
HERTS
PERTY
UPJAR
LOFOG
BORZI
LEGBE
MYTON MTU
MEEKER EKR

*17000 *11600 359° (31)
*17000 *11600 005° (25)
*13000 *11600 359° (15)
054° (12)
15000 *11500 097° (17)
17000 *10900 118° (22)
17000 *11500 130° (26)
137° (31) 17000 *11500
17000 *11400 072° (16)
FL190 060° (15)
FL190 060° (82)
FL190 088° (62)
FL190 096° (53)
FL190 100° (46)
FL190 093° (112)
FL190 125° (23)

N

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R, 17: Climbing right turn on a heading between 280° CW 340° as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 34L/R, 35: Climbing left turn on a heading between 340° CCW 310° as assigned by ATC, thence. . . .

. . . .on RADAR vectors to cross BUBBY at or above 11000, then on track 054° to RUGGD, then on (transition). Maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

HOLTR TRANSITION (RUGGD1.HOLTR)

MEEKER TRANSITION (RUGGD1.EKR)

MYTON TRANSITION (RUGGD1.MTU)

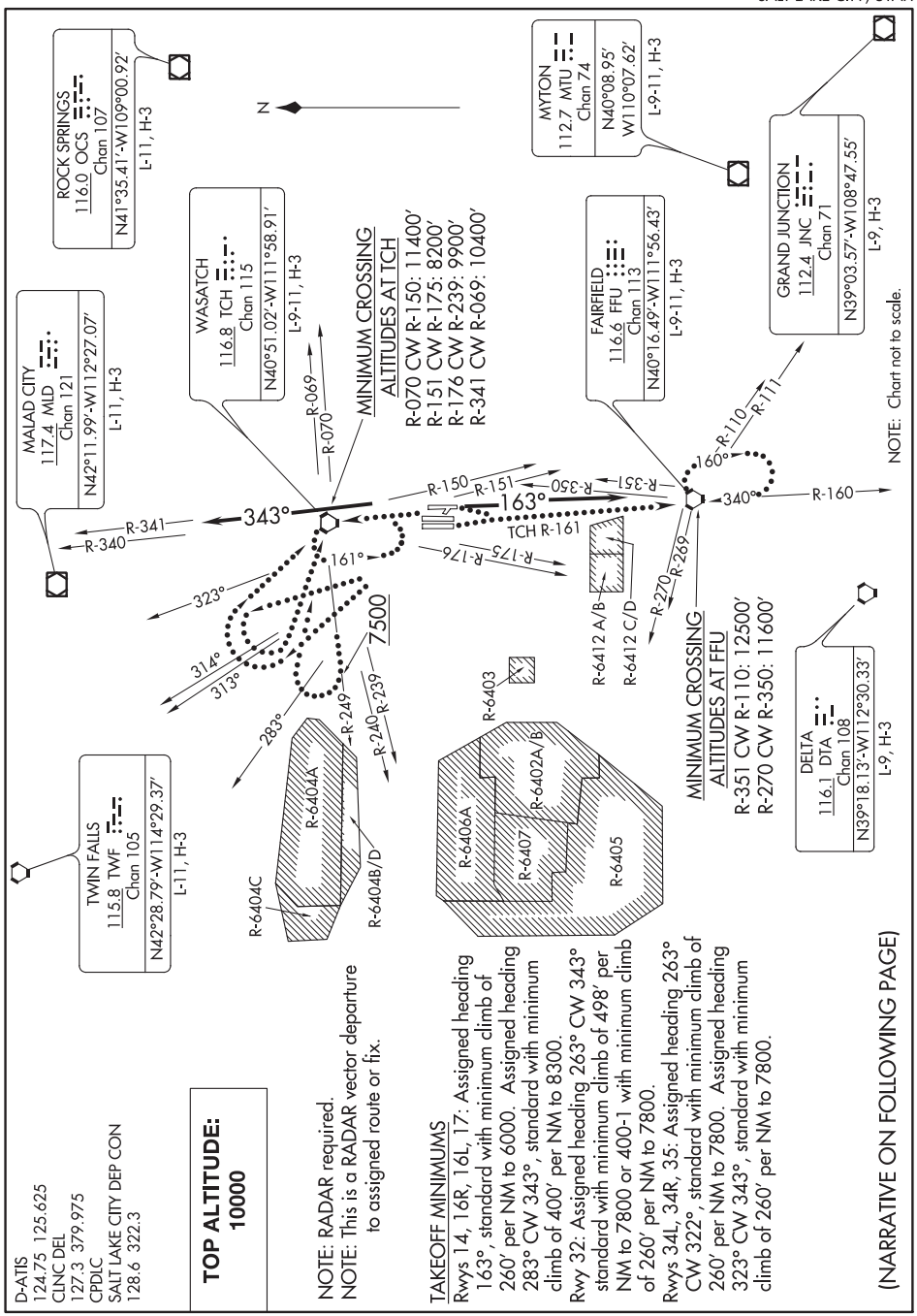
PERTY TRANSITION (RUGGD1.PERTY)

ROCK SPRINGS TRANSITION (RUGGD1.OCS)

SW-4, 05 NOV 2020 to 31 DEC 2020

SALT LAKE FOUR DEPARTURE

AL-365 (FAA)



D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
SALT LAKE CITY DEP CON
128.6 322.3

TOP ALTITUDE: 10000

NOTE: RADAR required.
NOTE: This is a RADAR vector departure to assigned route or fix.

TAKEOFF MINIMUMS

Rwys 14, 16R, 16L, 17: Assigned heading 163°, standard with minimum climb of 260' per NM to 6000. Assigned heading 283° CW 343°, standard with minimum climb of 400' per NM to 8300.

Rwy 32: Assigned heading 263° CW 343° standard with minimum climb of 498' per NM to 7800 or 400-1 with minimum climb of 260' per NM to 7800.

Rwys 34L, 34R, 35: Assigned heading 263° CW 322°, standard with minimum climb of 260' per NM to 7800. Assigned heading 323° CW 343°, standard with minimum climb of 260' per NM to 7800.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 14, 16L, 16R, 17: Climb heading 163° or as assigned, maintain 10000 or assigned lower altitude. Thence . . . .
TAKEOFF RUNWAYS 32, 34L, 34R, 35: Climb heading 343° or as assigned, maintain 10000 or assigned lower altitude. Thence . . . .

. . . . expect vectors to assigned route or fix. Expect clearance to filed altitude 10 minutes after departure. Aircraft filed/assigned heading 334° CW 112° expect RADAR vectors eastbound leaving 11000 due to high terrain east of TCH VORTAC.

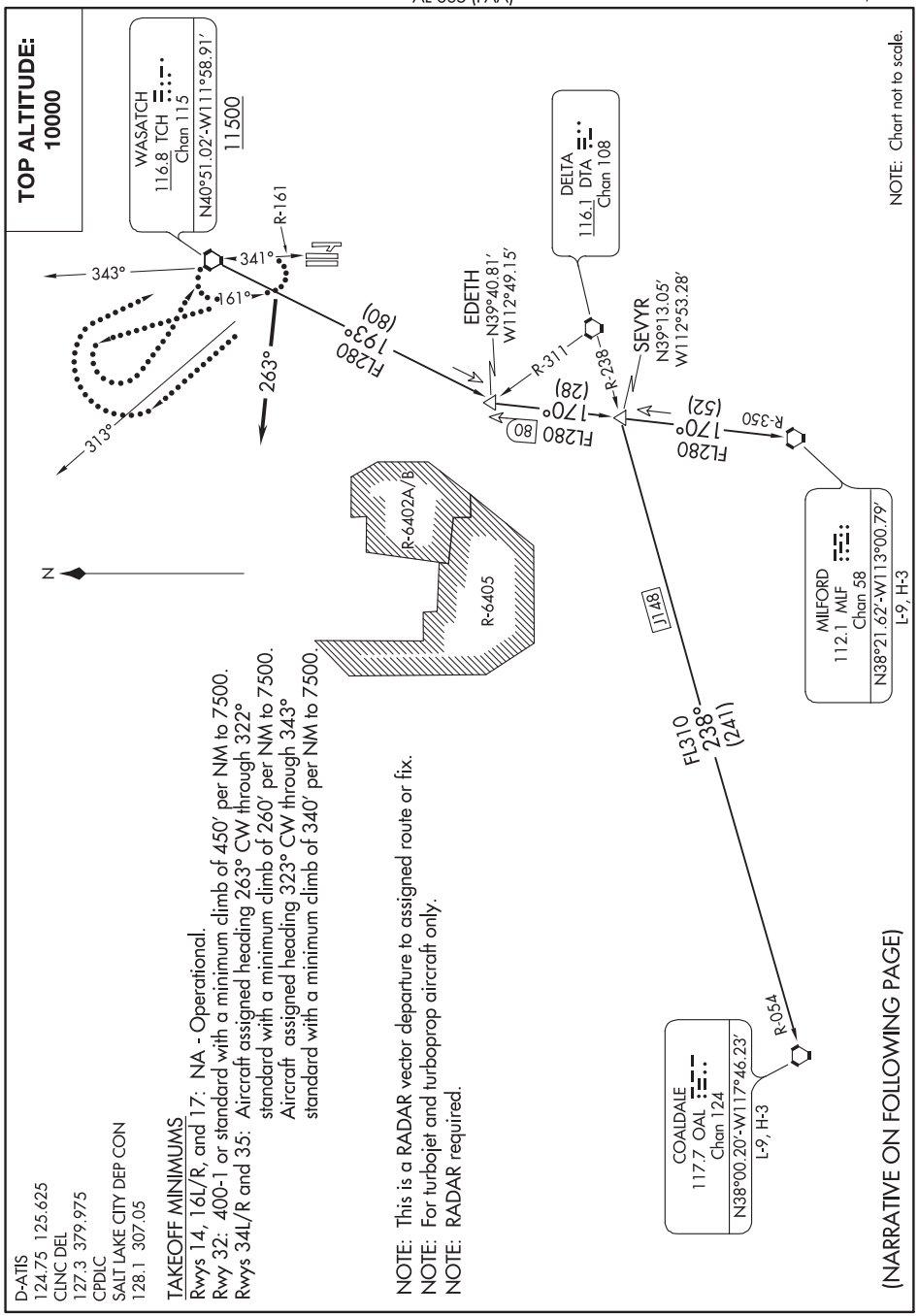
LOST COMMUNICATIONS: If not in contact with departure control 1 minute after takeoff:
RUNWAYS 14, 16L and 17: Assigned heading 163°, turn right thence . . . .
RUNWAY 16R: Assigned heading 163°, turn left thence . . . .
. . . . climb to 11000 on TCH R-161 to FFU VORTAC. Aircraft departing FFU VORTAC R-111 CW R-269, climb on assigned route. All others continue climb in FFU VORTAC holding pattern to cross FFU VORTAC at or above: R-351 CW R-110, 12500; R-270 CW R-350, 11600.

RUNWAYS 14, 16L, 16R, 17: Assigned heading 283° CW 343°, fly assigned heading to 11000. Then, aircraft heading 283° CW 313°, execute a climbing right turn thence . . . .
. . . .aircraft heading 314° CW 343° execute a climbing left turn, thence . . . .
. . . .proceed direct TCH VORTAC. Cross TCH VORTAC at or above 11400 and proceed on course.

RUNWAYS 32, 34L, 34R, 35: Climb direct TCH VORTAC. Aircraft departing TCH VORTAC R-240 CW R-340, climb on course. All others, continue climb on TCH R-249 to 7500, then climbing right turn direct TCH VORTAC. Continue climb in TCH VORTAC holding pattern to cross TCH VORTAC at or above: R-070 CW R-150, 11400; R-151 CW R-175, 8200; R-176 CW R-239, 9900; R-341 CW R-069, 10400. Climb on course.

SEVYR THREE DEPARTURE

AL-365 (FAA)



D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
SALT LAKE CITY DEP CON
128.1 307.05

TAKEOFF MINIMUMS
Rwys 14, 16L/R, and 17: NA - Operational.
Rwy 32: 400-1 or standard with a minimum climb of 450' per NM to 7500.
Rwys 34L/R and 35: Aircraft assigned heading 263° CW through 322° standard with a minimum climb of 260' per NM to 7500. Aircraft assigned heading 323° CW through 343° standard with a minimum climb of 340' per NM to 7500.

NOTE: This is a RADAR vector departure to assigned route or fix.
NOTE: For turbojet and turboprop aircraft only.
NOTE: RADAR required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 32, 34L/R, and 35: Climb on heading 263° or as assigned for RADAR vectors to assigned route or fix. Maintain 10000 or assigned lower altitude. Expect clearance to filed altitude 10 minutes after departure.

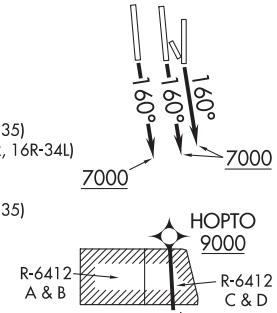
LOST COMMUNICATIONS: If not in contact with departure control within 1 minute after takeoff, fly assigned heading to 11000. Then, aircraft assigned heading 313° CW through 343°, execute a climbing left turn, all others execute a climbing right turn to TCH VORTAC. Continue climb in the TCH VORTAC holding pattern to cross TCH VORTAC at or above 11500. Proceed on course.

COALDALE TRANSITION (SEVYR3.OAL): From over TCH VORTAC on TCH R-193 and MLF R-350 to SEVYR, then on DTA R-238 and OAL R-054 to OAL VORTAC.

MILFORD TRANSITION (SEVYR3.MLF): From over TCH VORTAC on TCH R-193 and MLF R-350 to MLF VORTAC.

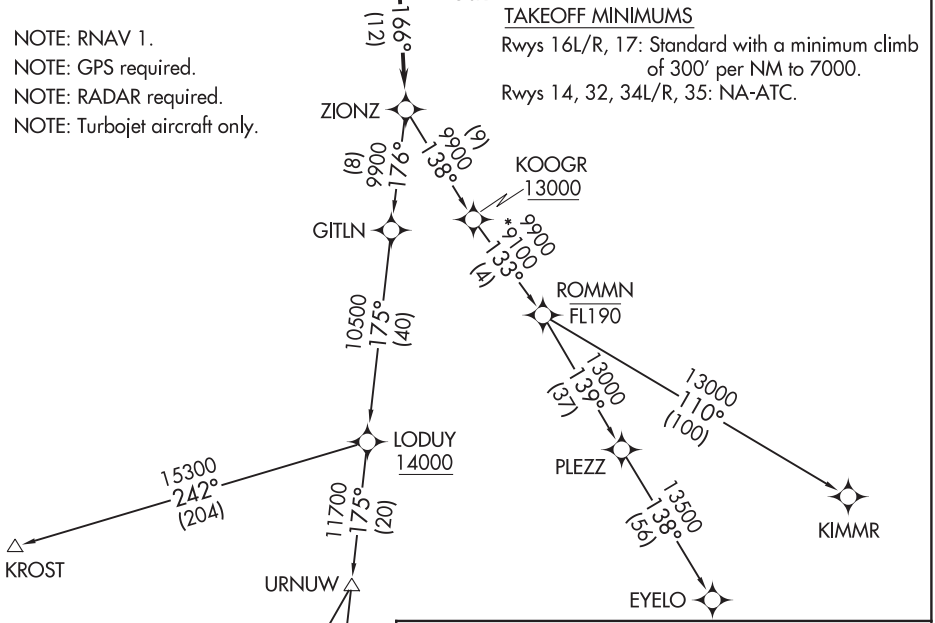
TOP ALTITUDE: FL230

D-ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwy 16R-34L)
SALT LAKE CITY DEP CON
128.6 322.3



NOTE: RNAV 1.
NOTE: GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft only.

TAKEOFF MINIMUMS
Rwys 16L/R, 17: Standard with a minimum climb of 300′ per NM to 7000.
Rwys 14, 32, 34L/R, 35: NA-ATC.

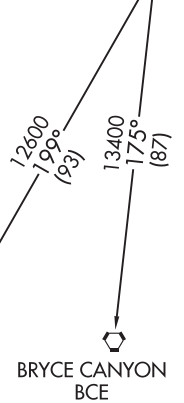


DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R, 17: Climb on heading 160° to 7000 then as assigned by ATC, thence. . . .

. . . .on RADAR vectors to cross HOPTO at or above 9000, then on track 166° to ZIONZ, then on (transition). Maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

BRYCE CANYON TRANSITION (ZIONZ1.BCE)
ENOCH TRANSITION (ZIONZ1.EHK)
EYELO TRANSITION (ZIONZ1.EYELO)
KIMMR TRANSITION (ZIONZ1.KIMMR)
KROST TRANSITION (ZIONZ1.KROST)



NOTE: Chart not to scale.

SALT LAKE CITY, UTAH

AL-366 (FAA)

20254

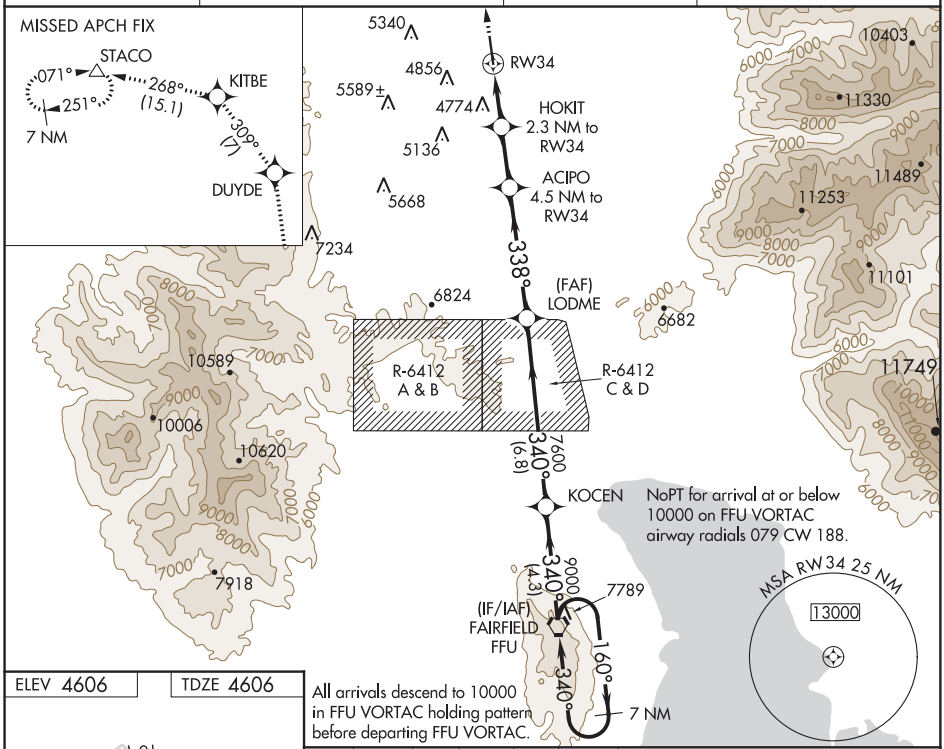
RNAV (GPS) RWY 34
SOUTH VALLEY RGNL (U42)

WAAS CH 82740 W34A	APP CRS 338°	Rwy ldg 5862 TDZE 4606 Apt Elev 4606

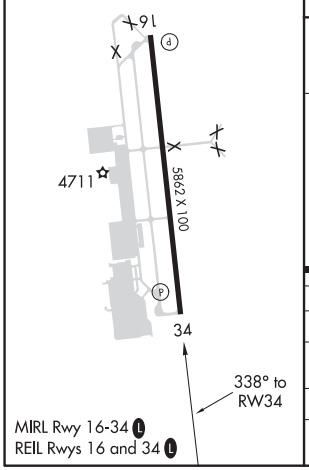
T NA Baro-VNAV NA. DME/DME RNP- 0.3 NA. VDP NA when using Salt Lake City Intl altimeter setting.

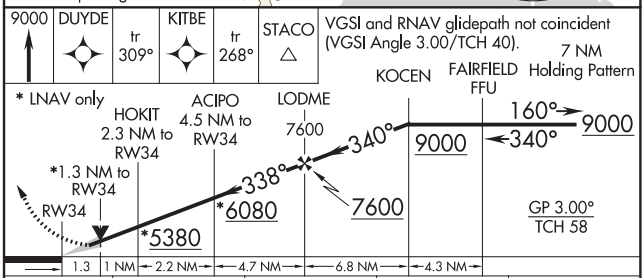
MISSED APPROACH: Climb to 9000 direct DUYDE and on track 309° to KITBE and on track 268° to STACO and hold.

AWOS-3	SALT LAKE CITY APP CON	CLNC DEL	UNICOM
134.425	128.6 322.3	127.0	122.7 (CTAF) L



ELEV 4606 | TDZE 4606





CATEGORY	A	B	C	D
LPV DA	4881-⅞ 275 (300-⅞)			
LNAV/VNAV DA	5022-1½ 416 (500-1½)			
LNAV MDA	5040-1 434 (500-1)		5040-1¼ 434 (500-1¼)	
C CIRCLING	5160-1 554 (600-1)	5360-1 754 (800-1)	5780-3 1174 (1200-3)	6040-3 1434 (1500-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

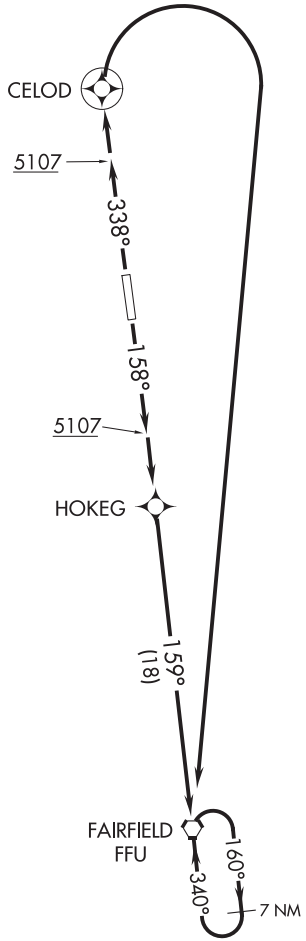
SW-4, 05 NOV 2020 to 31 DEC 2020

SOUTH VALLEY ONE DEPARTURE (RNAV)

AL-366 (FAA)

SALT LAKE CITY DEP CON
128.6 322.3
CLNC DEL
127.0
UNICOM
122.7 (CTAF)
AWOS-3
134.425

TOP ALTITUDE: 9000



NOTE: RNAV 1.

NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 16: Standard with minimum climb of 300′ per NM to 7800.

Rwy 34: Standard with minimum climb of 495′ per NM to 9000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb heading 158° to 5107, then climb to 9000 direct HOKEG, and on track 159° to FFU VORTAC and hold, thence. . . .

TAKEOFF RUNWAY 34: Climb heading 338° to 5107, then climb to 9000 direct CELOD, and right turn direct FFU VORTAC and hold, thence. . . .

. . . .maintain 9000. Expect further clearance to filed altitude and route within 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020

SCOTTSDALE, ARIZONA AL-5651 (FAA) 19339

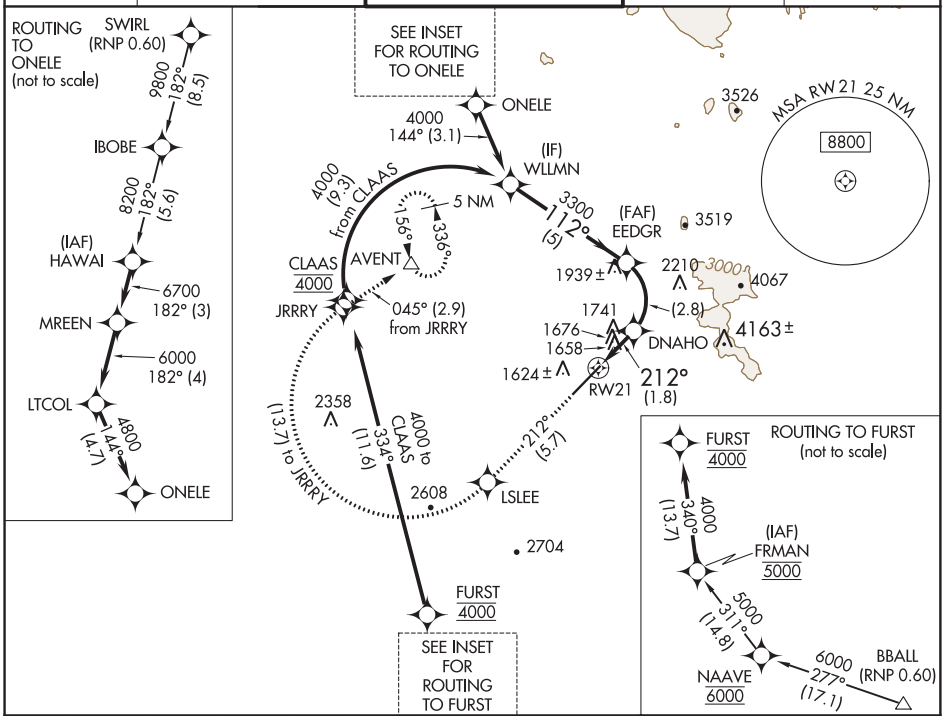
RNAV (RNP) RWY 21
SCOTTSDALE (SDL)

APP CRS	Rwy ldg	7669
212°	TDZE	1510
	Apt Elev	1510

RF and GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (31°F) or above 44°C (112°F). When local altimeter setting not received procedure NA.

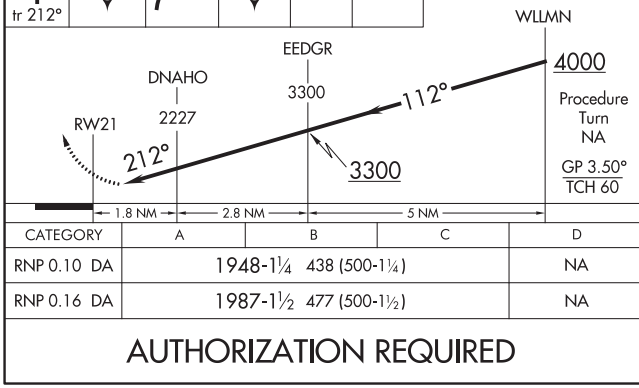
MISSED APPROACH: Climb to 5000 via track 212° to LSLEE, and via right turn to JRRRY, and via track 045° to AVENT and hold.

ATIS ★	PHOENIX APP CON	SCOTTSDALE TOWER ★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8



5000 tr 212°	LSLEE		JRRRY	tr 045°	AVENT

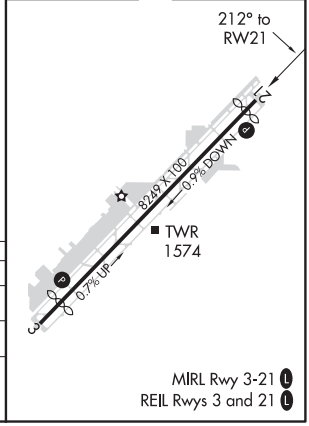
VGSI and RNAV glidepath not coincident (VGSI Angle 4.00/TCH 40).



CATEGORY	A	B	C	D
RNP 0.10 DA	1948-1¼ 438 (500-1¼)			NA
RNP 0.16 DA	1987-1½ 477 (500-1½)			NA

AUTHORIZATION REQUIRED

ELEV 1510 D TDZE 1510



MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

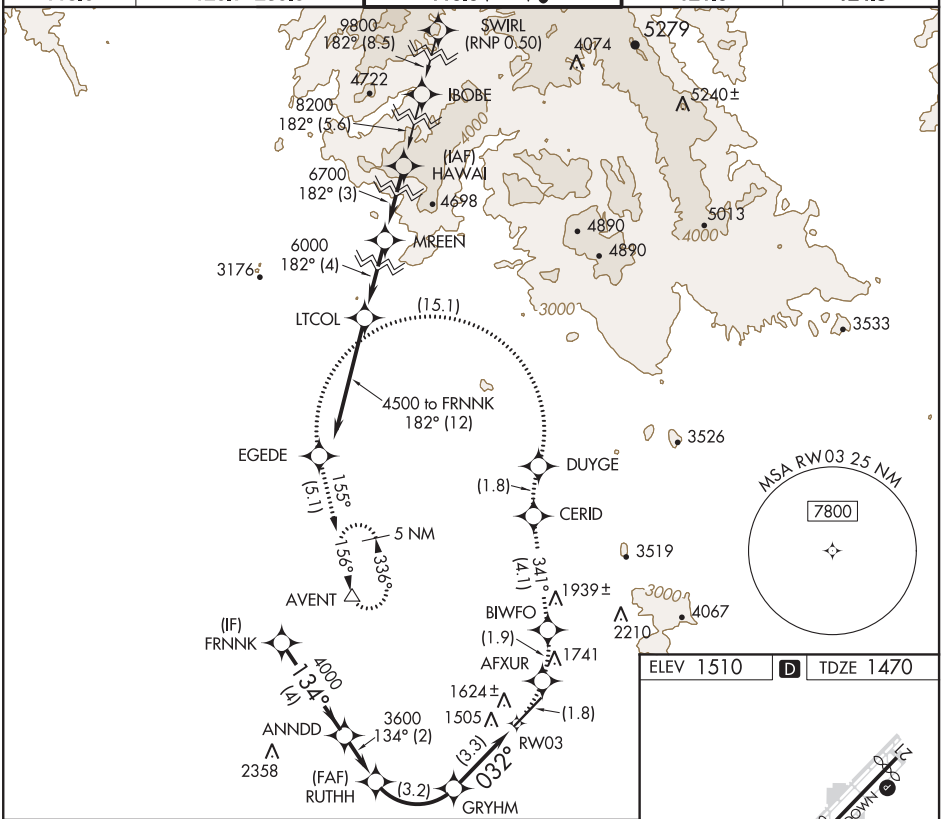
APP CRS	Rwy ldg	7110
032°	TDZE	1470
	Apt Elev	1510

RNAV (RNP) Y RWY 3
SCOTTSDALE (SDL)

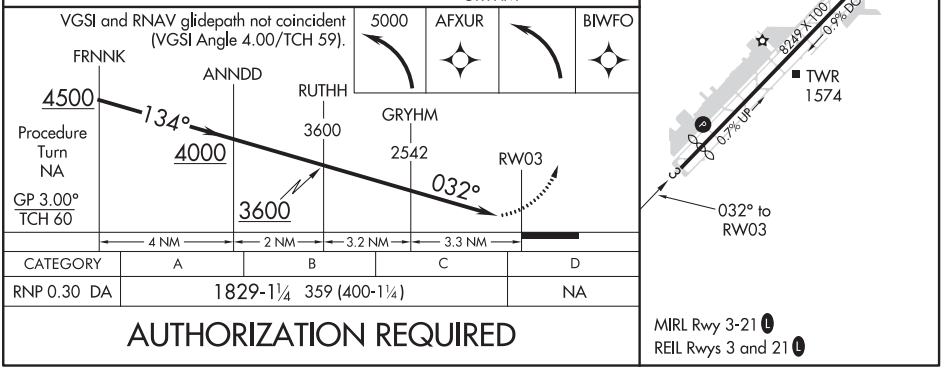
RF and GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (31°F) or above 54°C (130°F). When local altimeter setting not received procedure NA. Missed approach requires RNP less than 1.0.

MISSED APPROACH: Climb to 5000 via left turn to AFXUR, and via left turn to BIWFO, and via track 341° to CERID, and via right turn to DUYGE, and via left turn to EGEDE, and via track 155° to AVENT and hold.

ATIS ★	PHOENIX APP CON	SCOTTSDALE TOWER ★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8



ELEV 1510 D TDZE 1470



CATEGORY	A	B	C	D
RNP 0.30 DA	1829-1¼ 359 (400-1¼)			NA

AUTHORIZATION REQUIRED

MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SCOTTSDALE, ARIZONA AL-5651 (FAA) 19339

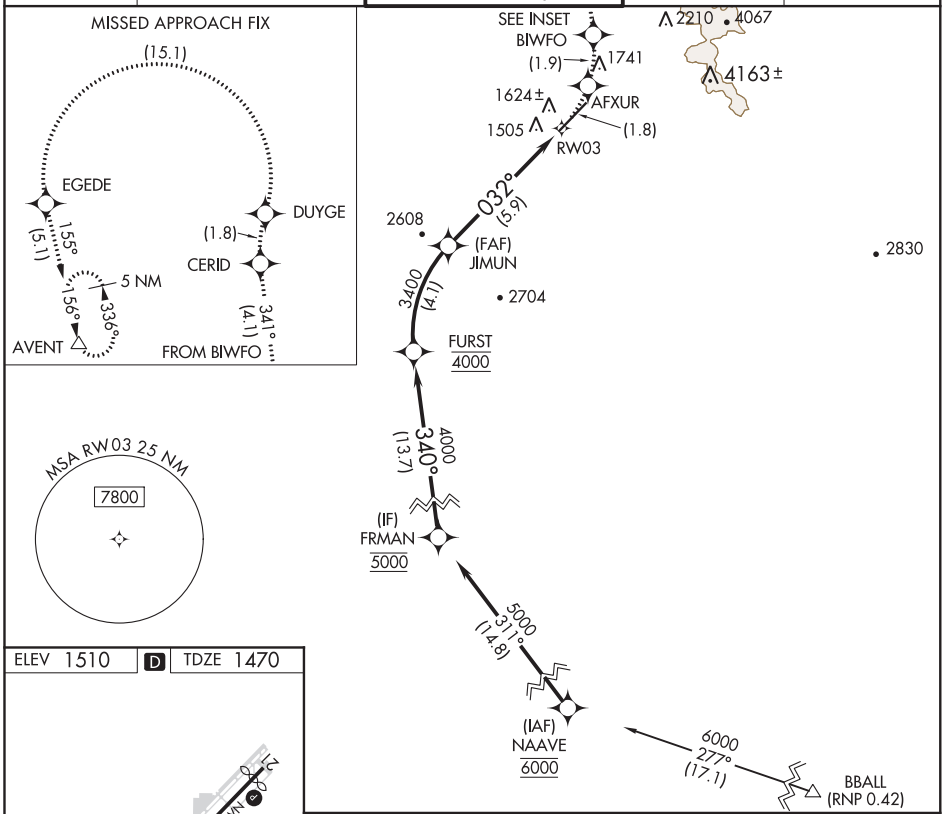
RNAV (RNP) Z RWY 3
SCOTTSDALE (SDL)

APP CRS	Rwy ldg	7110
032°	TDZE	1470
	Apt Elev	1510

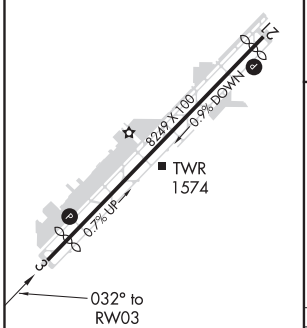
RF and GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (31°F) or above 54°C (130°F). When local altimeter setting not received procedure NA. Missed approach requires RNP less than 1.0.

MISSED APPROACH: Climb to 5000 via left turn to AFXUR, and via left turn to BIWFO, and via track 341° to CERID, and via right turn to DUYGE, and via left turn to EGEDE, and via track 155° to AVENT and hold.

ATIS ★	PHOENIX APP CON	SCOTTSDALE TOWER ★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8

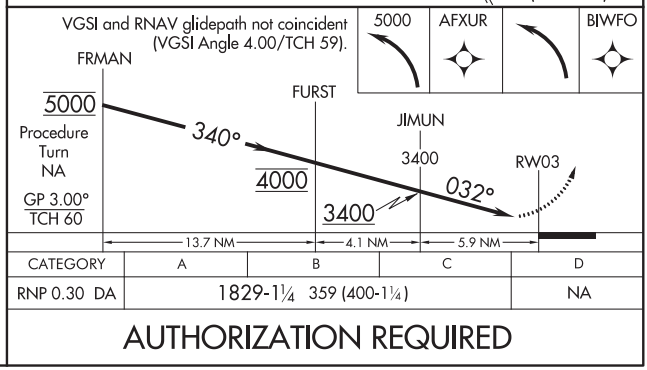


ELEV 1510 D TDZE 1470



MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

VGSI and RNAV glidepath not coincident (VGSI Angle 4.00/TCH 59).



CATEGORY	A	B	C	D
RNP 0.30 DA	1829-1¼ 359 (400-1¼)			NA

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

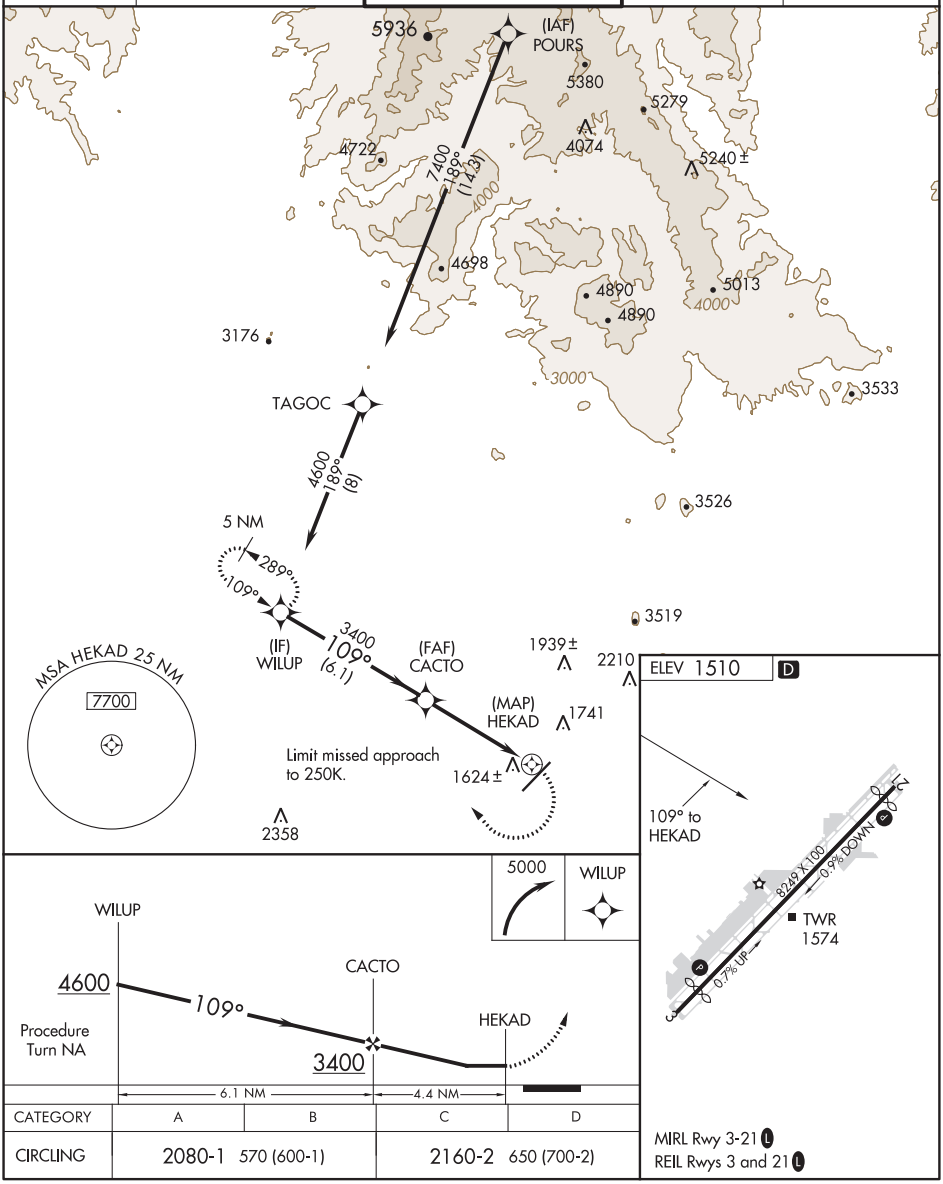
APP CRS	Rwy ldg	N/A
109°	TDZE	N/A
	Apt Elev	1510

RNAV (GPS)-D
SCOTTSDALE (SDL)

When VGSI inoperative, circling Rwy 21 NA at night. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 100 feet, increase Cat C visibility ¼ mile and Cat D visibility ½ mile. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 5000 direct WILUP and hold, continue climb-in-hold to 5000.

ATIS ★	PHOENIX APP CON	SCOTTSDALE TOWER ★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8



CATEGORY	A	B	C	D
CIRCLING	2080-1 570 (600-1)		2160-2 650 (700-2)	

MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SCOTTSDALE, ARIZONA | AL-5651 (FAA) | 20310

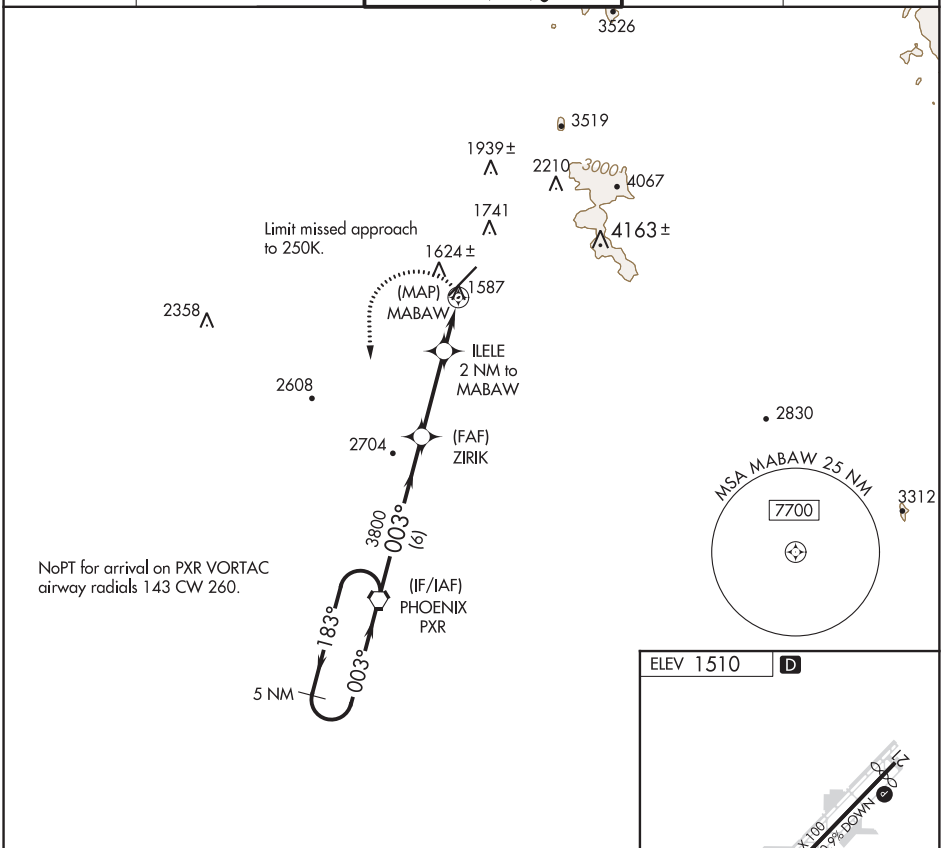
RNAV (GPS)-E
SCOTTSDALE (SDL)

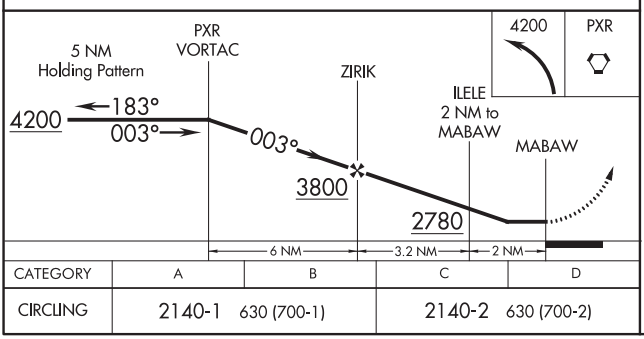
APP CRS	Rwy ldg	N/A
003°	TDZE	N/A
	Apt Elev	1510

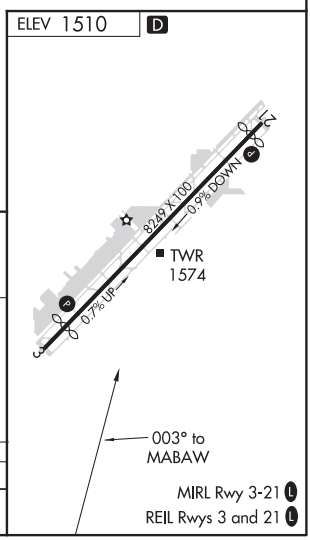
When VGSI inoperative, circling Rwy 21 NA at night. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 100 feet and increase Cat B visibility ¼ mile; increase Cat C and D visibility ½ mile. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4200 direct PXR VORTAC and hold.

ATIS*	PHOENIX APP CON	SCOTTSDALE TOWER*	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8







CATEGORY	A	B	C	D
CIRCLING	2140-1 630 (700-1)		2140-2 630 (700-2)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

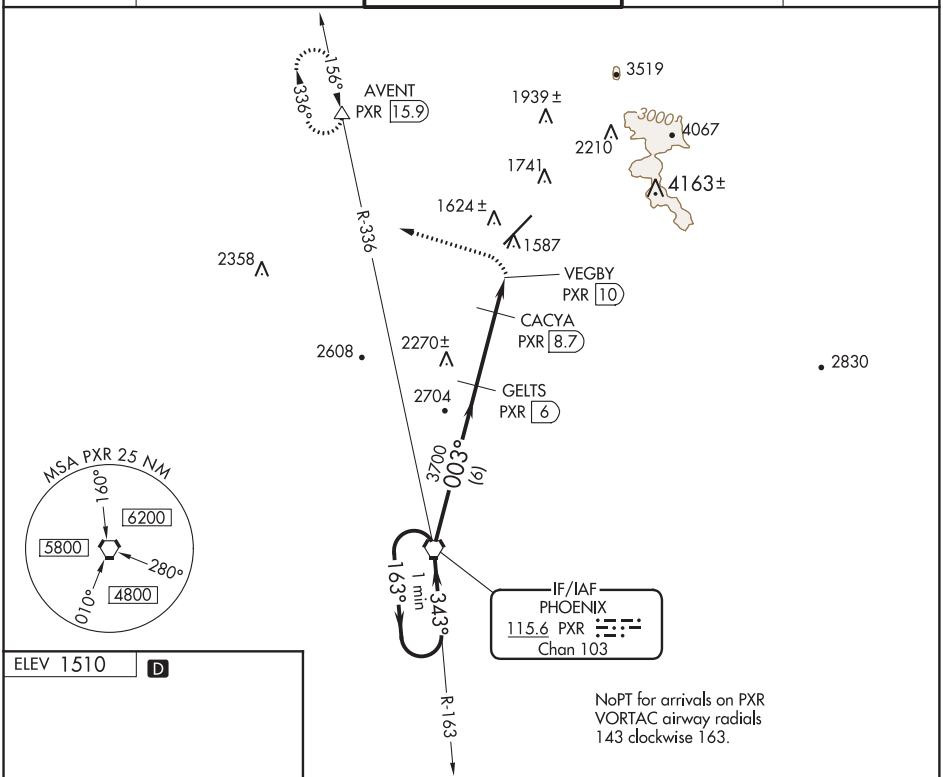
VOR/DME-A
SCOTTSDALE (SDL)

VORTAC PXR 115.6 Chan 103	APP CRS 003°	Rwy ldg N/A TDZE N/A Apt Elev 1510

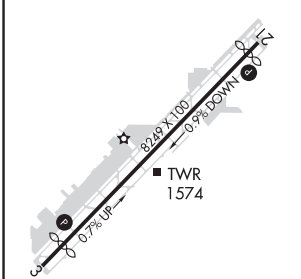
When local altimeter setting not received, use Phoenix Sky Harbor altimeter setting and increase all MDAs 100 feet and Cat C visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 7000 on heading 280° and on PXR VORTAC R-336 to AVENT/PXR 15.9 DME and hold, continue climb-in-hold to 7000.

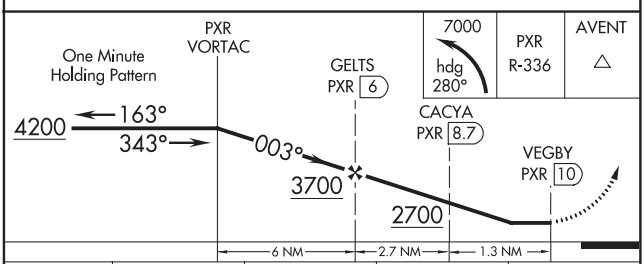
ATIS★	PHOENIX APP CON	SCOTTSDALE TOWER★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) L	121.6	124.8



ELEV 1510 D



MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L



CATEGORY	A	B	C	D
CIRCLING	2380-1½ 870 (900-1½)		2380-2½ 870 (900-2½)	2380-2¾ 870 (900-2¾)

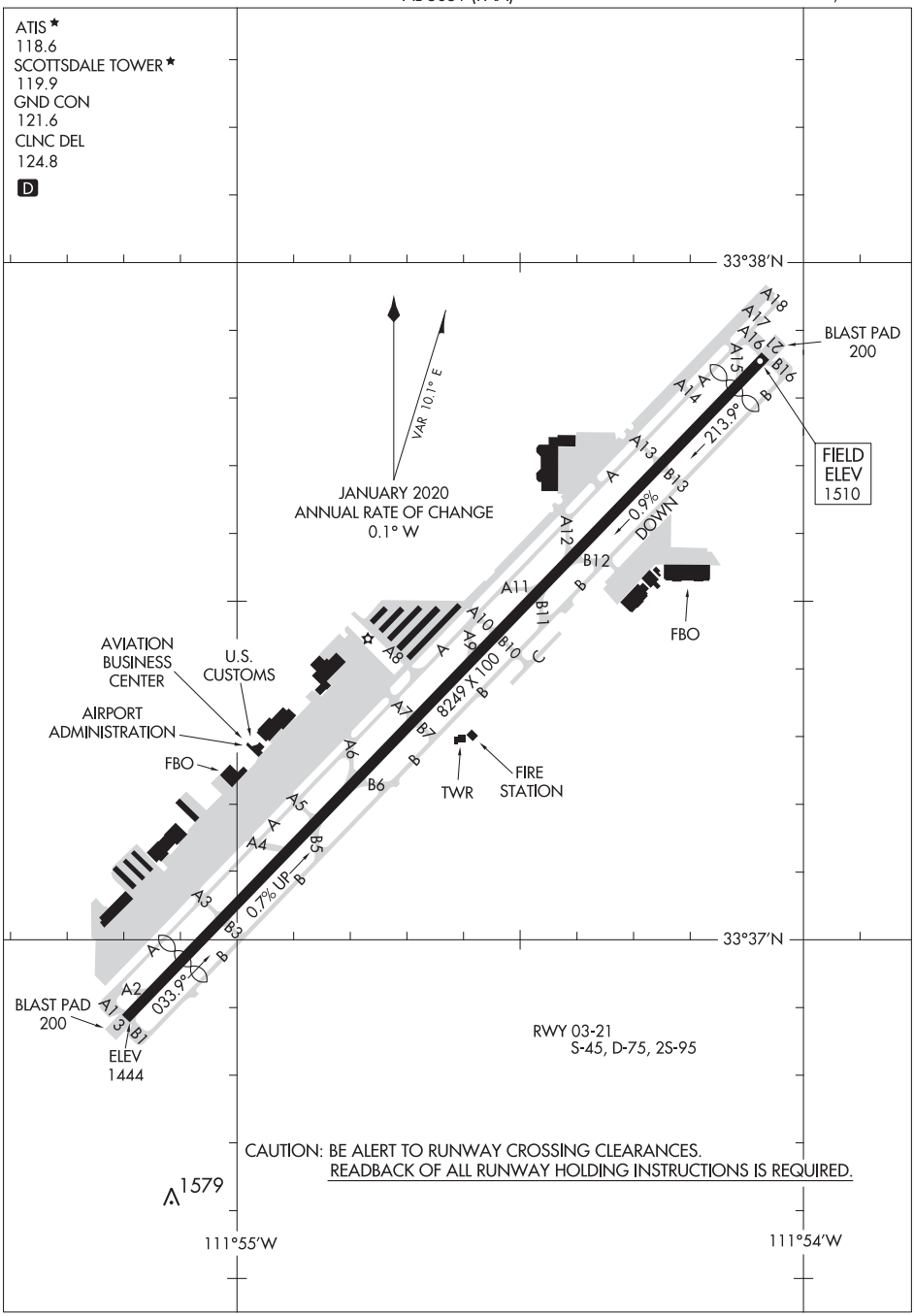
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

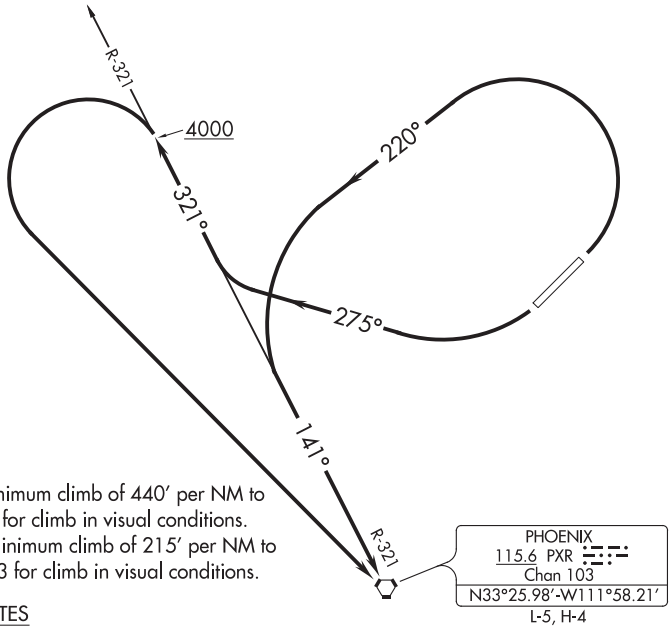


SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

ATIS*
118.6
PRESCOTT RADIO
122.2
SCOTTSDALE TOWER*
119.9 (CTAF)
PHOENIX DEP CON
120.7 239.0



TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 440' per NM to 4000, or 3100-3 for climb in visual conditions.

Rwy 21: Standard with minimum climb of 215' per NM to 4000, or 3100-3 for climb in visual conditions.

TAKEOFF OBSTACLE NOTES

Rwy 3: Multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1554' MSL.
Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1561' MSL.
Dike beginning 1066' from DER, 316' left of centerline, 38' AGL/1548' MSL.
Day marker on dike, 1230' from DER, 5' left of centerline, 39' AGL/1549' MSL.
Tree 765' from DER, 115' left of centerline, 22' AGL/1532' MSL.
Road beginning 647' from DER, 296' left of centerline, 19' AGL/1529' MSL.
Fence beginning 5' from DER, 338' right of centerline, 6' AGL/1511' MSL.
Light standard 1013' from DER, 430' right of centerline, 44' AGL/1552' MSL.

Rwy 21: Trees 1072' from DER, 426' right of centerline, 53' AGL/1497' MSL.
Building 316' from DER, 537' right of centerline, 23' AGL/1467' MSL.
Tree 2087' from DER, 418' left of centerline, 61' AGL/1505' MSL.
Tree 1432' from DER, 438' right of centerline, 38' AGL/1482' MSL.
Tree 2234' from DER, 559' left of centerline, 58' AGL/1502' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn to 4000 via heading 220° and PXR R-321 southeast bound to PXR VORTAC. Thence. . . . or, for climb in visual conditions: cross Scottsdale Airport at or above 4500 before proceeding on course.

TAKEOFF RUNWAY 21: Climbing right turn to 4000 via heading 275° and PXR R-321 northwest bound, when established on PXR R-321 northwest bound and reaching 4000, left turn direct PXR VORTAC. Thence. . . . or, for climb in visual conditions: cross Scottsdale Airport at or above 4500 before proceeding on course.

. . . .Continue climb on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(BNYRD6.BNYRD) 19003

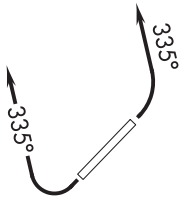
BNYRD SIX DEPARTURE (RNAV)

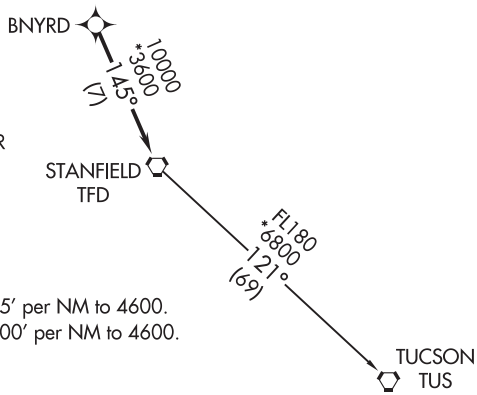
AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER ★
119.9
PHOENIX DEP CON
120.7 239.0





NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC, then on (transition), maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD6.TUS)

FTHLS SIX DEPARTURE (RNAV)

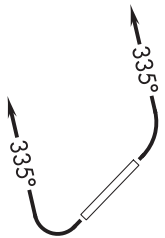
TOP ALTITUDE: ASSIGNED BY ATC

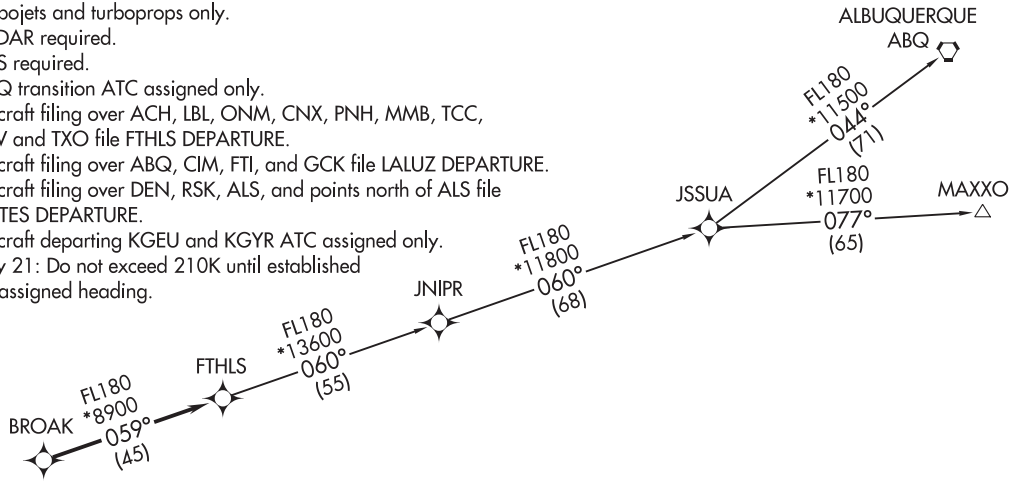
ATIS★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER★
119.9
PHOENIX DEP CON
120.7 239.0

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: ABQ transition ATC assigned only.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to BROAK, then on track 059° to FTHLS, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS6.ABQ)

JNIPR TRANSITION (FTHLS6.JNIPR)

MAXXO TRANSITION (FTHLS6.MAXXO)

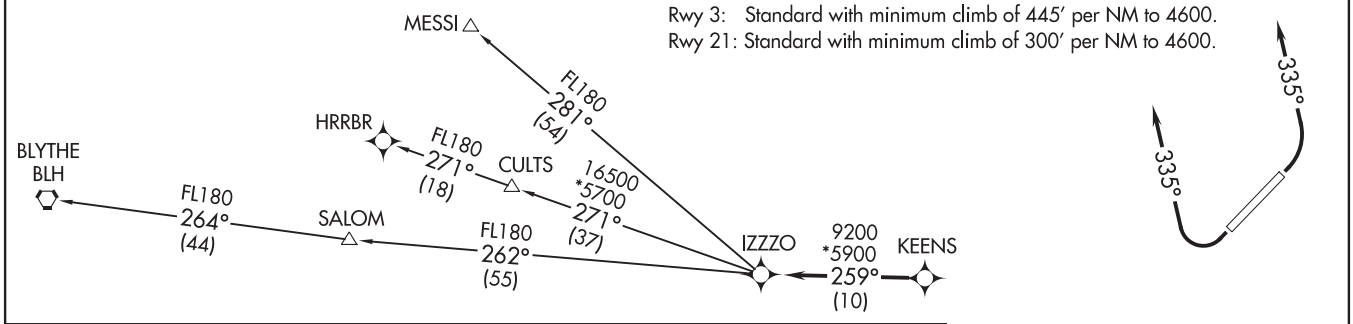
NOTE: Chart not to scale.

ATIS ★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER ★
119.9
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
NOTE: Turbojets landing LAX, file MESSI TRANSITION.
NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file HRRBR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.



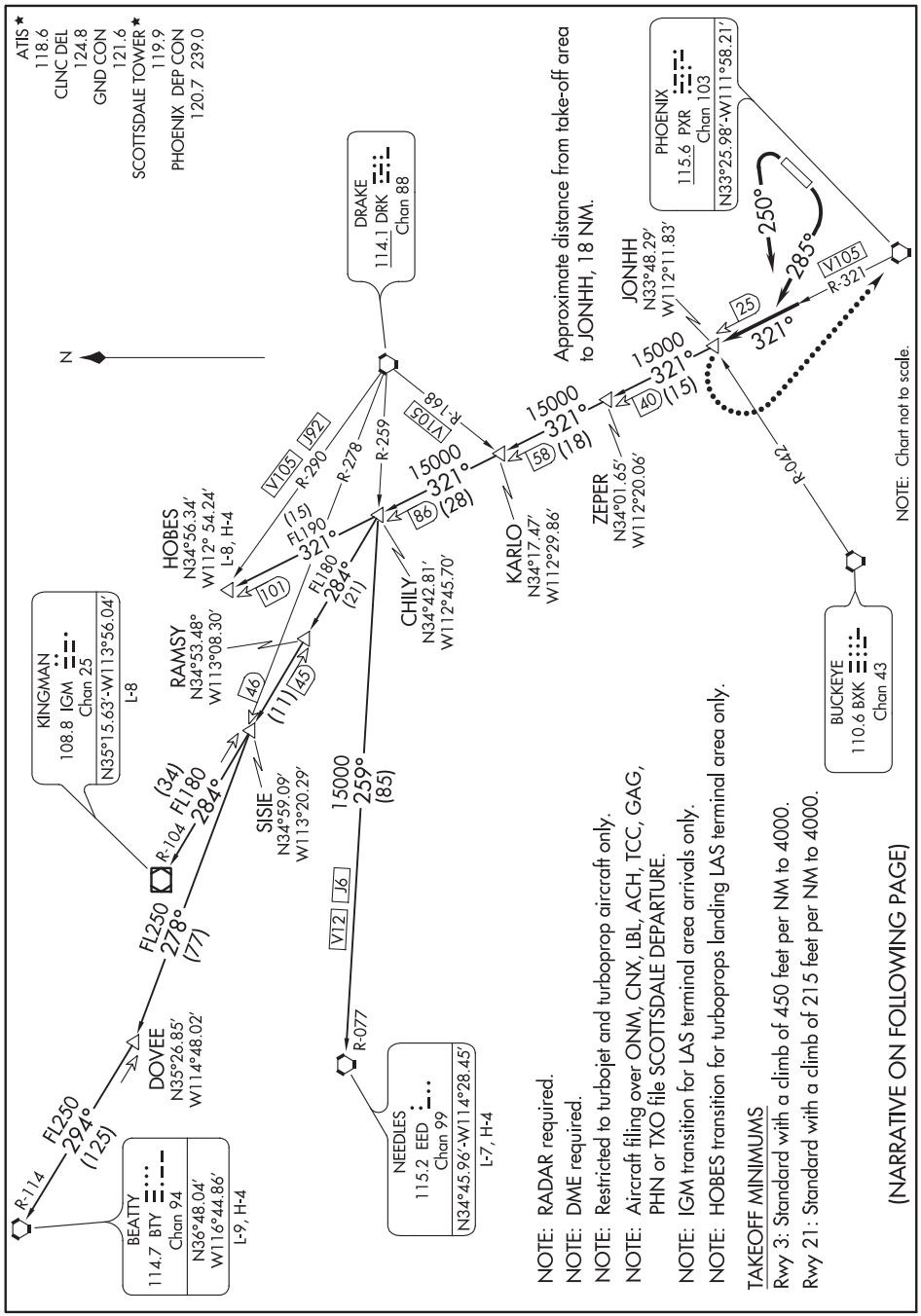
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to KEENS, then on track 259° to IZZZO, then on (transition).
Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO7.BLH)
HRRBR TRANSITION (IZZZO7.HRRBR)
MESSI TRANSITION (IZZZO7.MESSI)

NOTE: Chart not to scale.


ATIS* 118.6
CLNC DEL 124.8
GND CON 121.6
SCOTTSDALE TOWER* 119.9
PHOENIX DEP CON 120.7 239.0
N
DRAKE
114.1 DRK
Chan 88
Approximate distance from take-off area to JONHH, 18 NM.
PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'
JONHH
N33°48.29'
W112°11.83'
250°
285°
321°
V105
R-321
25
15000
321°
(15)
40
R-047
ZEPER
N34°01.65'
W112°20.06'
15000
321°
(18)
58
KARLO
N34°17.47'
W112°29.86'
R-168
V105
R-259
15000
321°
(28)
86
CHILY
N34°42.81'
W112°45.70'
R-278
FL180
284°
(21)
V105
J92
R-290
(15)
FL190
321°
101
HOBES
N34°56.34'
W112° 54.24'
L-8, H-4
RAMSY
N34°53.48°
W113°08.30'
46
(111)
43
SISIE
N34°59.09'
W113°20.29'
15000
259°
(85)
V12
J6
R-077
NEEDLES
115.2 EED
Chan 99
N34°45.96'-W114°28.45'
L-7, H-4
BUCKEYE
110.6 BXK
Chan 43
KINGMAN
108.8 IGM
Chan 25
N35°15.63'-W113°56.04'
L-8
(34)
FL180
284°
R-104
FL250
278°
(77)
DOVEE
N35°26.85'
W114°48.02'
FL250
294°
(125)
R-114
BEATTY
114.7 BTY
Chan 94
N36°48.04'
W116°44.86'
L-9, H-4
NOTE: Chart not to scale.
NOTE: RADAR required.
NOTE: DME required.
NOTE: Restricted to turbojet and turboprop aircraft only.
NOTE: Aircraft filing over ONM, CNX, LBL, ACH, TCC, GAG, PHN or TXO file SCOTTSDALE DEPARTURE.
NOTE: IGM transition for LAS terminal area arrivals only.
NOTE: HOBES transition for turboprops landing LAS terminal area only.
TAKEOFF MINIMUMS
Rwy 3: Standard with a climb of 450 feet per NM to 4000.
Rwy 21: Standard with a climb of 215 feet per NM to 4000.
(NARRATIVE ON FOLLOWING PAGE)
SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 250° to intercept and proceed on PXR R-321 to JONHH INT. Thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 285° to intercept and proceed on PXR R-321 to JONHH INT. Thence. . . .

. . . .on assigned transition.

LOST COMMUNICATIONS: If not in contact with departure control at JONHH INT, turn left direct to PXR VORTAC, thence via assigned transition. Expect filed altitude 3 minutes after departure.

BEATTY TRANSITION (JONHH2.BTY): From over JONHH INT on PXR R-321 to CHILY INT, then on IGM R-104 to SISIE INT, then on DRK R-278 to DOVEE INT, then on BTY R-114 to BTY VORTAC.

HOBES TRANSITION (JONHH2.HOBES): From over JONHH INT on PXR R-321 to HOBES INT.

KINGMAN TRANSITION (JONHH2.IGM): From over JONHH INT on PXR R-321 to CHILY INT, then on IGM R-104 to IGM VOR/DME.

NEEDLES TRANSITION (JONHH2.EED): From over JONHH INT on PXR R-321 to CHILY INT, then on DRK R-259 and EED R-077 to EED VORTAC.

ATIS★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER★
119.9
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .

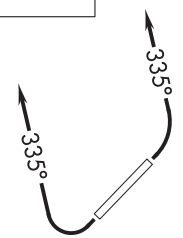
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH7.MOHAK)

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.



NOTE: Chart not to scale.

KATMN SIX DEPARTURE (RNAV)

(KATMN6.KATMN) 24MAY18

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

ATIS ★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER ★
119.9
PHOENIX DEP CON
120.7 239.0

TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

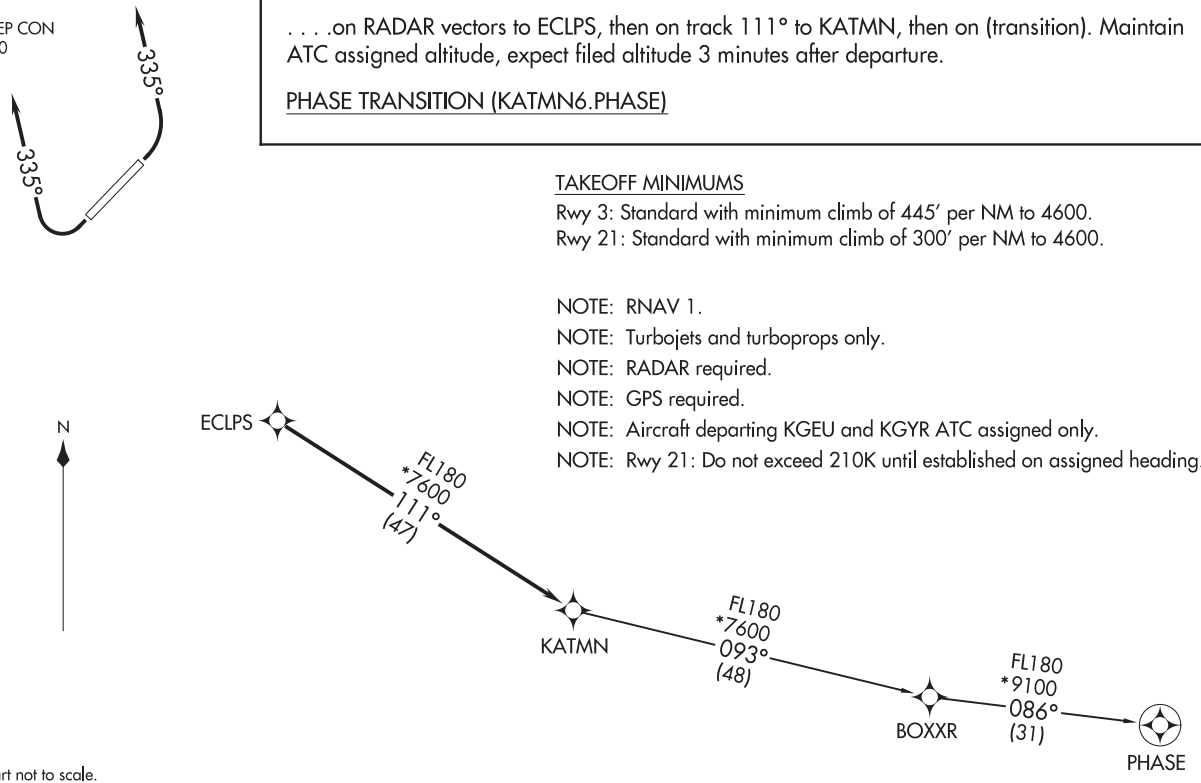
. . . .on RADAR vectors to ECLPS, then on track 111° to KATMN, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN6.PHASE)

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.



NOTE: Chart not to scale.

(KATMN6.KATMN) 19003

KATMN SIX DEPARTURE (RNAV)

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

LALUZ SIX DEPARTURE (RNAV)

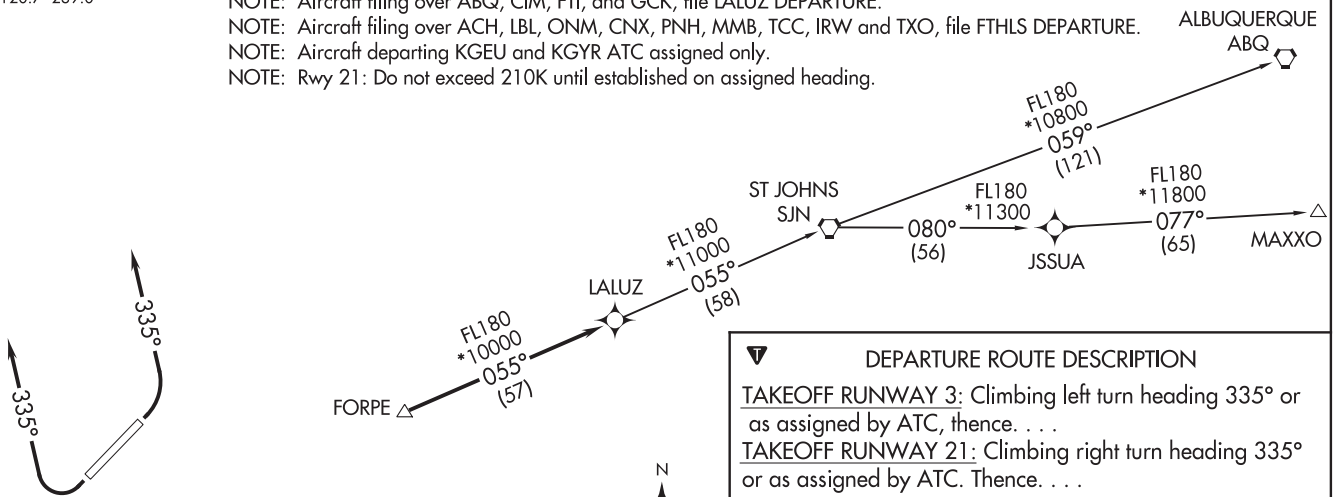
(LALUZ6.LALUZ) 24MAY18

(LALUZ6.LALUZ) 19003

ATIS ★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER ★
119.9
PHOENIX DEP CON
120.7 239.0

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SJN TRANSITION for ABQ terminal arrivals only.
NOTE: MAXXO TRANSITION ATC assigned only.
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO, file FTHLS DEPARTURE.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TOP ALTITUDE: ASSIGNED BY ATC



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to FORPE, then on track 055° to LALUZ, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ6.ABQ)
MAXXO TRANSITION (LALUZ6.MAXXO)
ST JOHNS TRANSITION (LALUZ6.SJN)

TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: Chart not to scale.

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

AL-5651 (FAA)

SW-4, 05 NOV 2020 to 31 DEC 2020

(MAYSA7.MAYSA) 20142

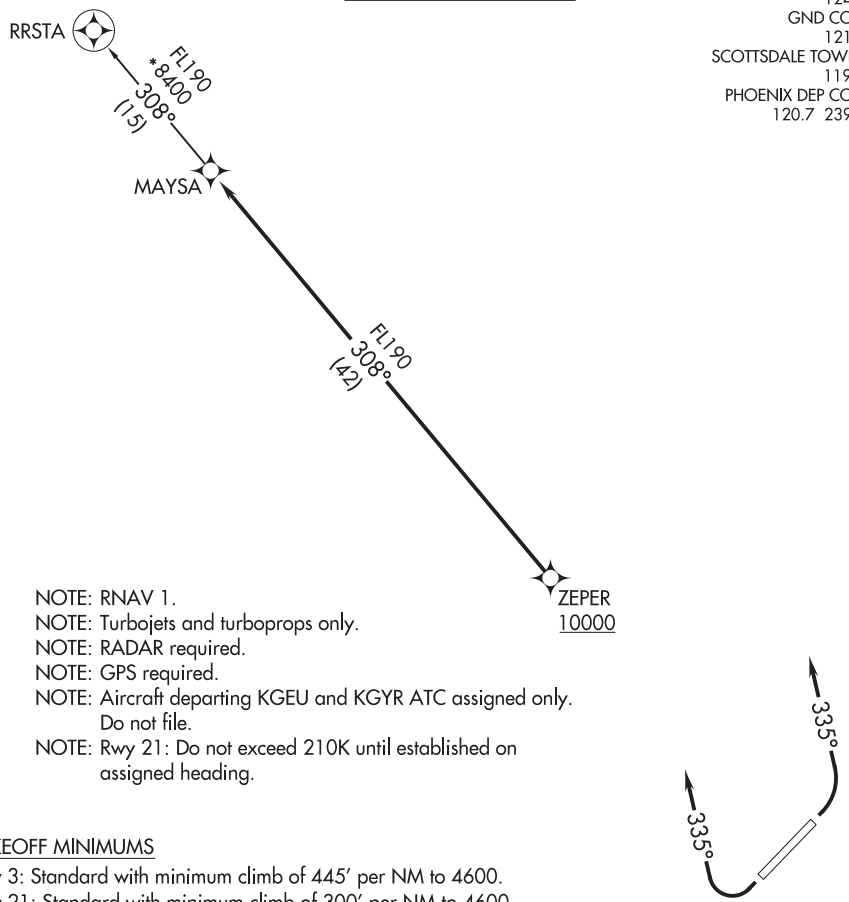
MAYSA SEVEN DEPARTURE (RNAV)

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS★ 118.6
CLNC DEL 124.8
GND CON 121.6
SCOTTSDALE TOWER★ 119.9
PHOENIX DEP CON 120.7 239.0



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only. Do not file.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

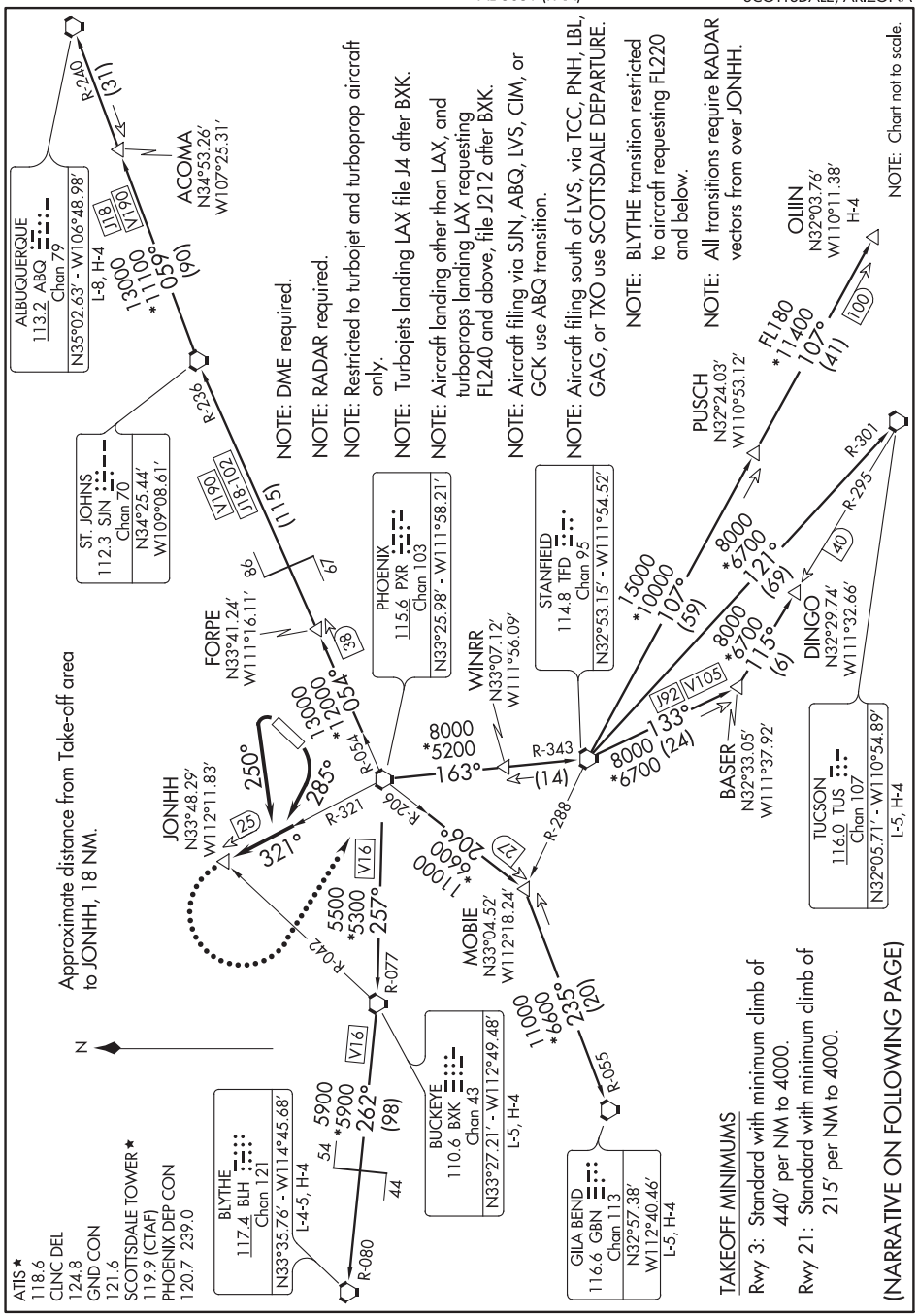
TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to cross ZEPER at or above 10000, then on track 308° to MAYSA, then on RRSTA TRANSITION. Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

RRSTA TRANSITION (MAYSA7.RRSTA)

SW-4, 05 NOV 2020 to 31 DEC 2020


ATIS★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER★
119.9 (CTAF)
PHOENIX DEP CON
120.7 239.0
N
Approximate distance from Take-off area to JONHH, 18 NM.
ALBUQUERQUE
113.2 ABQ
Chan 79
N35°02.63' - W106°48.98'
L-8, H-4
ACOMA
N34°53.26'
W107°25.31'
ST. JOHNS
112.3 SJN
Chan 70
N34°25.44'
W109°08.61'
FORPE
N33°41.24'
W111°16.11'
PHOENIX
115.6 PXR
Chan 103
N33°25.98' - W111°58.21'
NOTE: DME required.
NOTE: RADAR required.
NOTE: Restricted to turbojet and turboprop aircraft only.
NOTE: Turbojets landing LAX file J4 after BXK.
NOTE: Aircraft landing other than LAX, and turboprops landing LAX requesting FL240 and above, file J212 after BXK.
NOTE: Aircraft filing via SJN, ABQ, LVS, CIM, or GCK use ABQ transition.
NOTE: Aircraft filing south of LVS, via TCC, PNH, LBL, GAG, or TXO use SCOTTSDALE DEPARTURE.
NOTE: BLYTHE transition restricted to aircraft requesting FL220 and below.
NOTE: All transitions require RADAR vectors from over JONHH.
NOTE: Chart not to scale.
STANFIELD
114.8 TFD
Chan 95
N32°53.15' - W111°54.52'
WINRR
N33°07.12'
W111°56.09'
PUSCH
N32°24.03'
W110°53.12'
OLIIN
N32°03.76'
W110°11.38'
H-4
JONHH
N33°48.29'
W112°11.83'
BLYTHE
117.4 BLH
Chan 121
N33°35.76' - W114°45.68'
L-4-5, H-4
BUCKEYE
110.6 BXK
Chan 43
N33°27.21' - W112°49.48'
L-5, H-4
MOBIE
N33°04.52'
W112°18.24'
GILA BEND
116.6 GBN
Chan 113
N32°57.38'
W112°40.46'
L-5, H-4
BASER
N32°33.05'
W111°37.92'
DINGO
N32°29.74'
W111°32.66'
TUCSON
116.0 TUS
Chan 107
N32°05.71' - W110°54.89'
L-5, H-4
TAKEOFF MINIMUMS
Rwy 3: Standard with minimum climb of 440' per NM to 4000.
Rwy 21: Standard with minimum climb of 215' per NM to 4000.
(NARRATIVE ON FOLLOWING PAGE)
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 250° to intercept and proceed via PXR R-321 to JONHH INT. Thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 285° to intercept and proceed via PXR R-321 to JONHH INT. Thence. . . .

. . . .via RADAR vectors to (assigned route).

LOST COMMUNICATIONS: If not in contact with departure control at JONHH INT, turn left direct to PXR VORTAC, thence via assigned transition. Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SCOT7.ABQ): From over JONHH INT on RADAR vectors and PXR R-054 and SJN R-236 to SJN VORTAC, then on SJN R-059 and ABQ R-240 to ABQ VORTAC.

BLYTHE TRANSITION (SCOT7.BLH): From over JONHH INT on RADAR vectors and BXK R-077 to BXK VORTAC, then on BXK R-262 and BLH R-080 to BLH VORTAC.

BUCKEYE TRANSITION (SCOT7.BXK): From over JONHH INT on RADAR vectors and BXK R-077 to BXK VORTAC.

DINGO TRANSITION (SCOT7.DINGO): From over JONHH INT on RADAR vectors and TFD R-343 to TFD VORTAC, then on TFD R-133 to BASER INT, and then on TUS R-295 to DINGO INT.

GILA BEND TRANSITION (SCOT7.GBN): From over JONHH INT on RADAR vectors and PXR R-206 to MOBIE INT, then on GBN R-055 to GBN VORTAC.

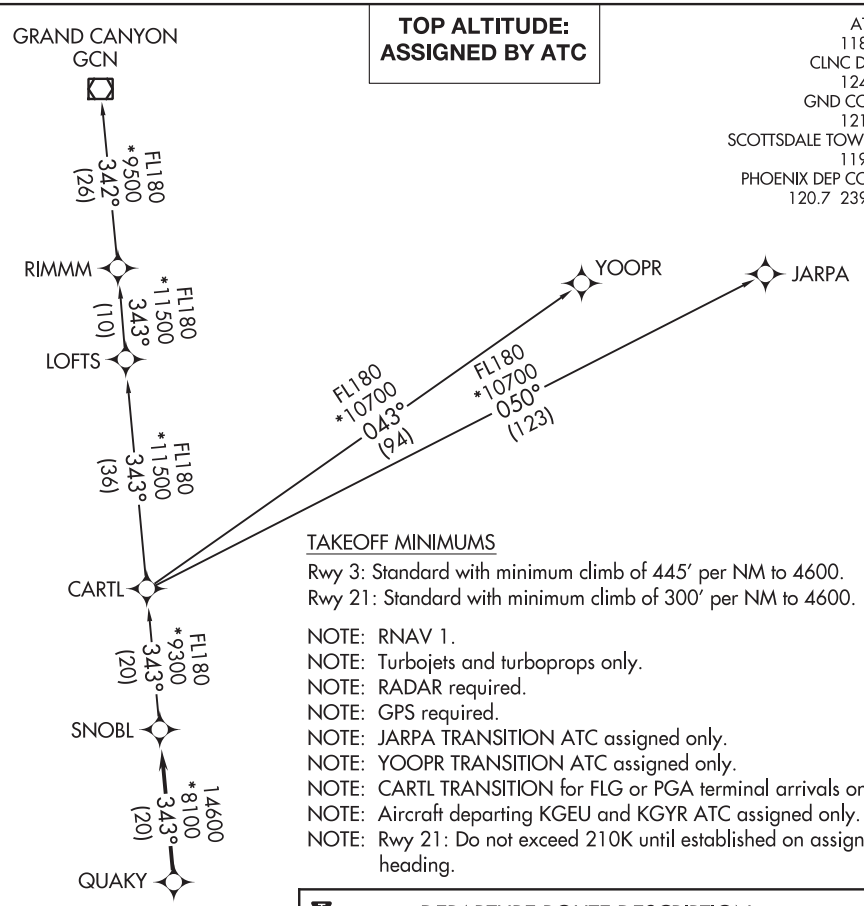
OLIIN TRANSITION (SCOT7.OLIIN): From over JONHH INT on RADAR vectors and TFD R-343 to TFD VORTAC, then on TFD R-107 to PUSCH INT, and then on TFD R-107 to OLIIN INT.

TUCSON TRANSITION (SCOT7.TUS): From over JONHH INT on RADAR vectors and TFD R-343 to TFD VORTAC, then on TFD R-121 and TUS R-301 to TUS VORTAC.

SW-4, 05 NOV 2020 to 31 DEC 2020

TOP ALTITUDE: ASSIGNED BY ATC

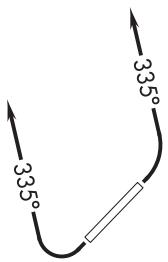
ATIS★ 118.6
CLNC DEL 124.8
GND CON 121.6
SCOTTSDALE TOWER★ 119.9
PHOENIX DEP CON 120.7 239.0



TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: JARPA TRANSITION ATC assigned only.
NOTE: YOOPR TRANSITION ATC assigned only.
NOTE: CARTL TRANSITION for FLG or PGA terminal arrivals only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL6.CARTL)
GRAND CANYON TRANSITION (SNOBL6.GCN)
JARPA TRANSITION (SNOBL6.JARPA)
RIMMM TRANSITION (SNOBL6.RIMMM)
YOOPR TRANSITION (SNOBL6.YOOPR)

NOTE: Chart not to scale.

(YOTES6.YOTES) 19003

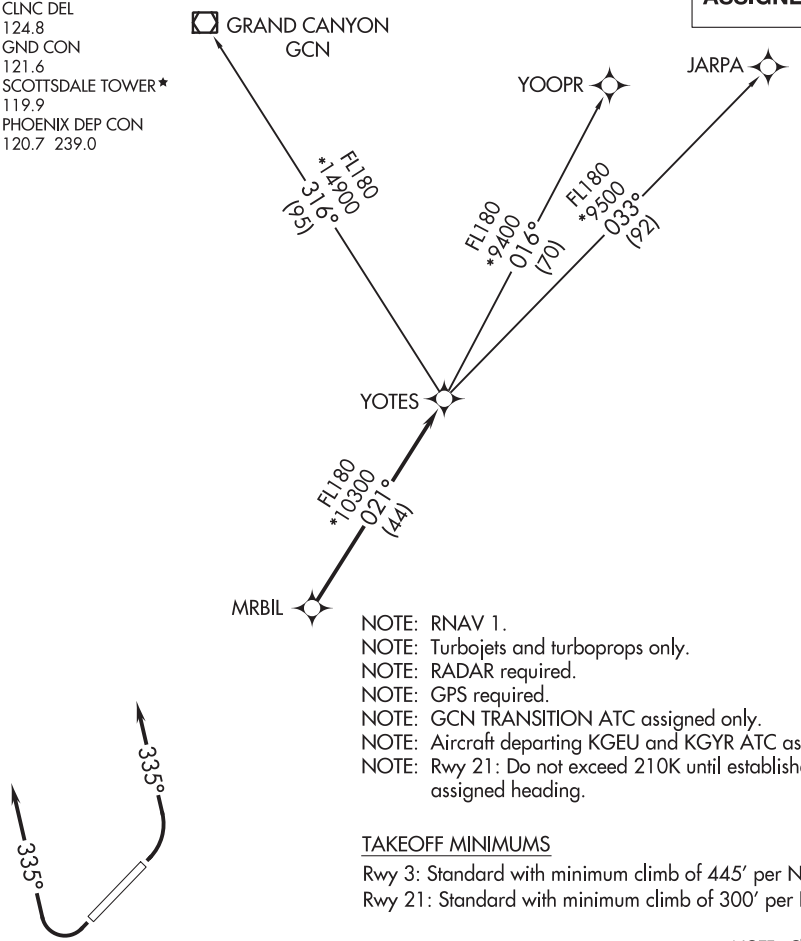
YOTES SIX DEPARTURE (RNAV)

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

TOP ALTITUDE: ASSIGNED BY ATC

ATIS★
118.6
CLNC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER★
119.9
PHOENIX DEP CON
120.7 239.0



NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: GCN TRANSITION ATC assigned only.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.
NOTE: Rwy 21: Do not exceed 210K until established on assigned heading.

TAKEOFF MINIMUMS

Rwy 3: Standard with minimum climb of 445′ per NM to 4600.
Rwy 21: Standard with minimum climb of 300′ per NM to 4600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES, then on (transition). Maintain ATC assigned altitude, expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES6.GCN)

JARPA TRANSITION (YOTES6.JARPA)

YOOPR TRANSITION (YOTES6.YOOPR)

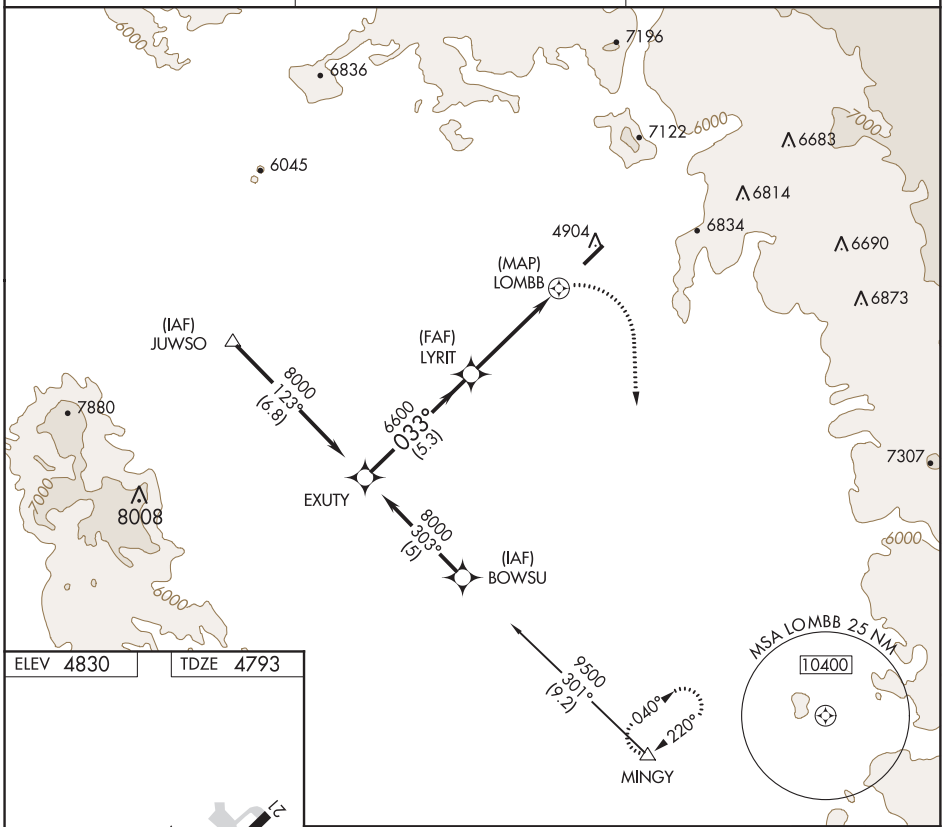
APP CRS	Rwy ldg	5132
033°	TDZE	4793
	Apt Elev	4830

GPS RWY 3
SEDONA (SEZ)

When local altimeter not received, procedure not authorized.
Cat D circling not authorized northwest of Rwy 3-21.
Circling Rwy 21 NA at night.

MISSED APPROACH: Climbing right turn to 12000 direct MINGY WP and hold.

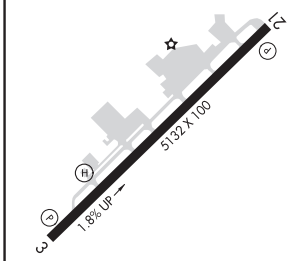
AWOS-3PT	PHOENIX APP CON	UNICOM
118.525	126.375 236.775	123.0 (CTAF) L



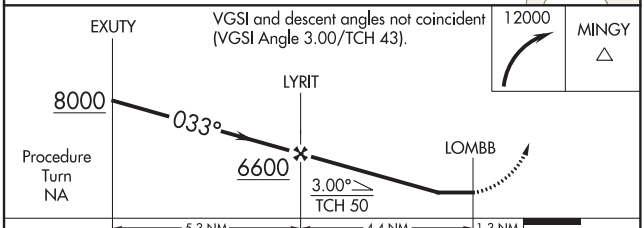
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 4830	TDZE 4793



MIRL Rwy 3-21 L
REIL Rwys 3 and 21 L



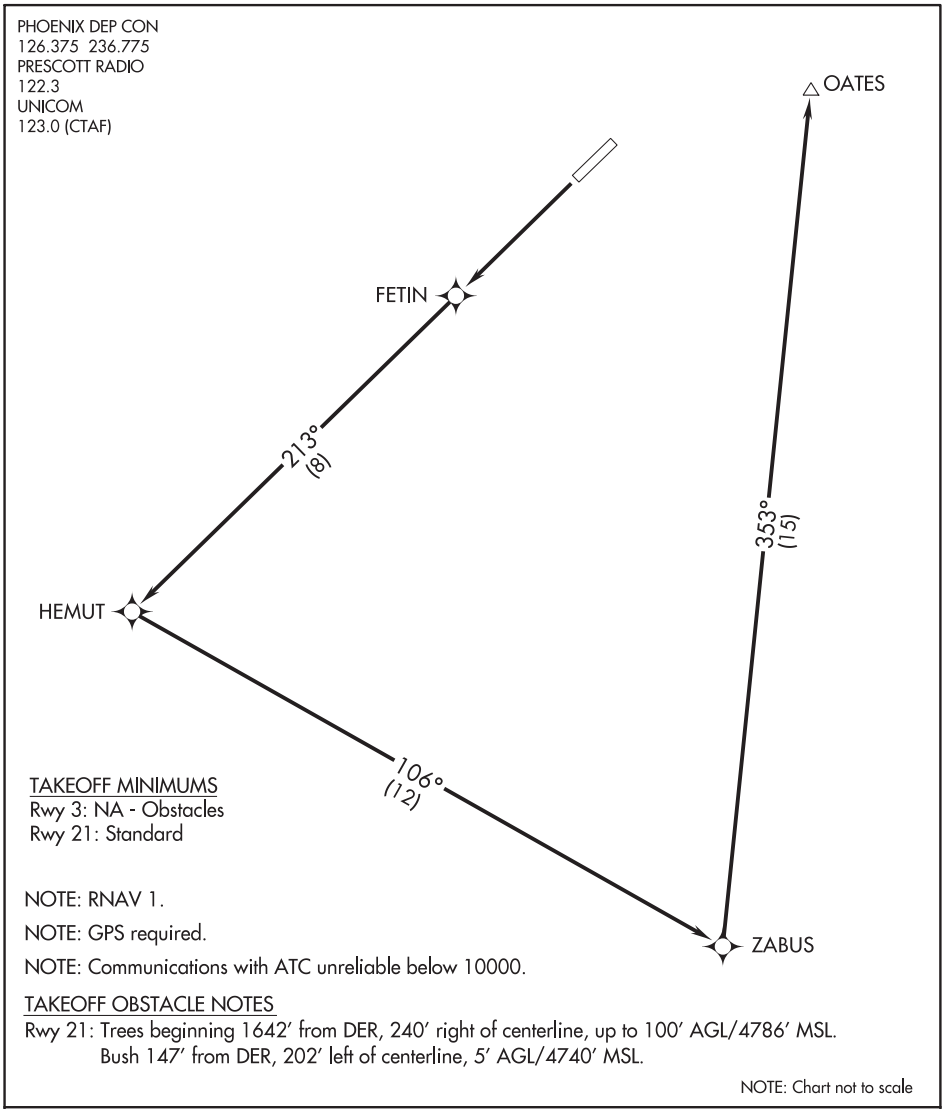
CATEGORY	A	B	C	D
S-3	6140-1½ 1347 (1400-1½)	6240-1½ 1447 (1500-1½)	6560-3	1767 (1800-3)
C CIRCLING	6140-1½ 1310 (1400-1½)	6240-1½ 1410 (1500-1½)	NA	

(OATES1.OATES) 16259

OATES ONE DEPARTURE (OBSTACLE) (RNAV)

SL-6169 (FAA)

SEDONA (SEZ)
SEDONA, ARIZONA



TAKEOFF MINIMUMS
Rwy 3: NA - Obstacles
Rwy 21: Standard

NOTE: RNAV 1.

NOTE: GPS required.

NOTE: Communications with ATC unreliable below 10000.

TAKEOFF OBSTACLE NOTES
Rwy 21: Trees beginning 1642′ from DER, 240′ right of centerline, up to 100′ AGL/4786′ MSL.
Bush 147′ from DER, 202′ left of centerline, 5′ AGL/4740′ MSL.

NOTE: Chart not to scale

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 21: Climb direct FETIN then via 213° track/8 NM to HEMUT, then left turn via 106° track/12 NM to ZABUS, then left turn via 353° track/15 NM to OATES. Maintain 10500 or assigned altitude.

WAAS CH 72718 W25A	APP CRS 246°	Rwy ldg 7200 TDZE 6405 Apt Elev 6415

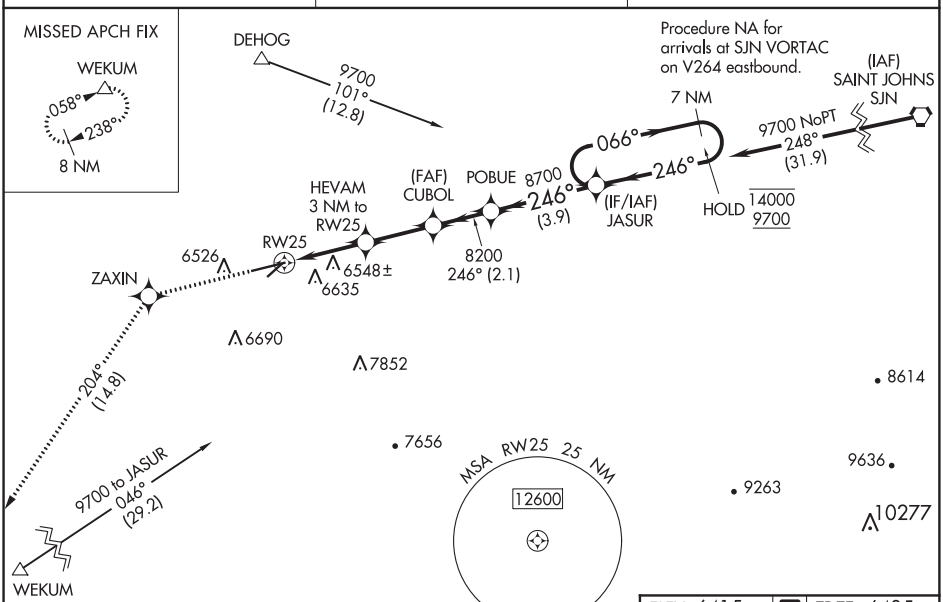
RNAV (GPS) RWY 25
SHOW LOW RGNL (SOW)

RNP APCH.

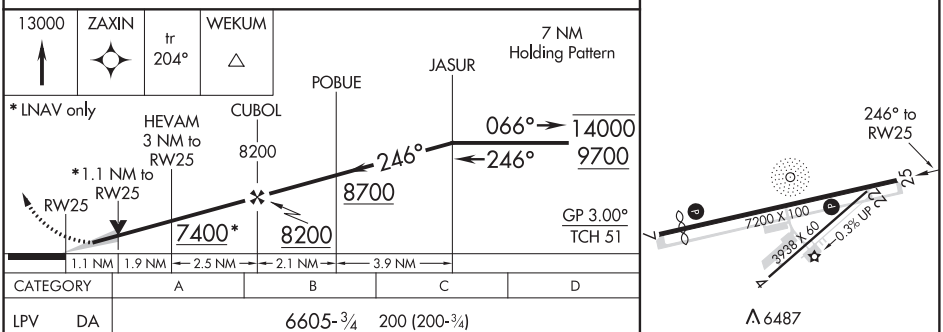
Circling to Rwy 4 NA at night.
Circling NA southeast of Rwys 4 and 25.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -14°C (7°F) or above 45°C (114°F).

MISSED APPROACH: Climb to 13000 direct ZAXIN and on track 204° to WEKUM and hold, continue climb-in-hold to 13000.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
118.075	132.9 239.05	123.0 (CTAF) L



ELEV 6415 D TDZE 6405



CATEGORY	A	B	C	D
LPV DA	6605-¾ 200 (200-¾)			
LNAV/VNAV DA	6704-⅞ 299 (300-⅞)			
LNAV MDA	6800-1 395 (400-1)		6800-1⅛ 395 (400-1⅛)	
C CIRCLING	6840-1 425 (500-1)	6880-1 465 (500-1)	7180-2¼ 765 (800-2¼)	7340-3 925 (1000-3)

REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

SHOW LOW, ARIZONA AL-6783 (FAA) 20310

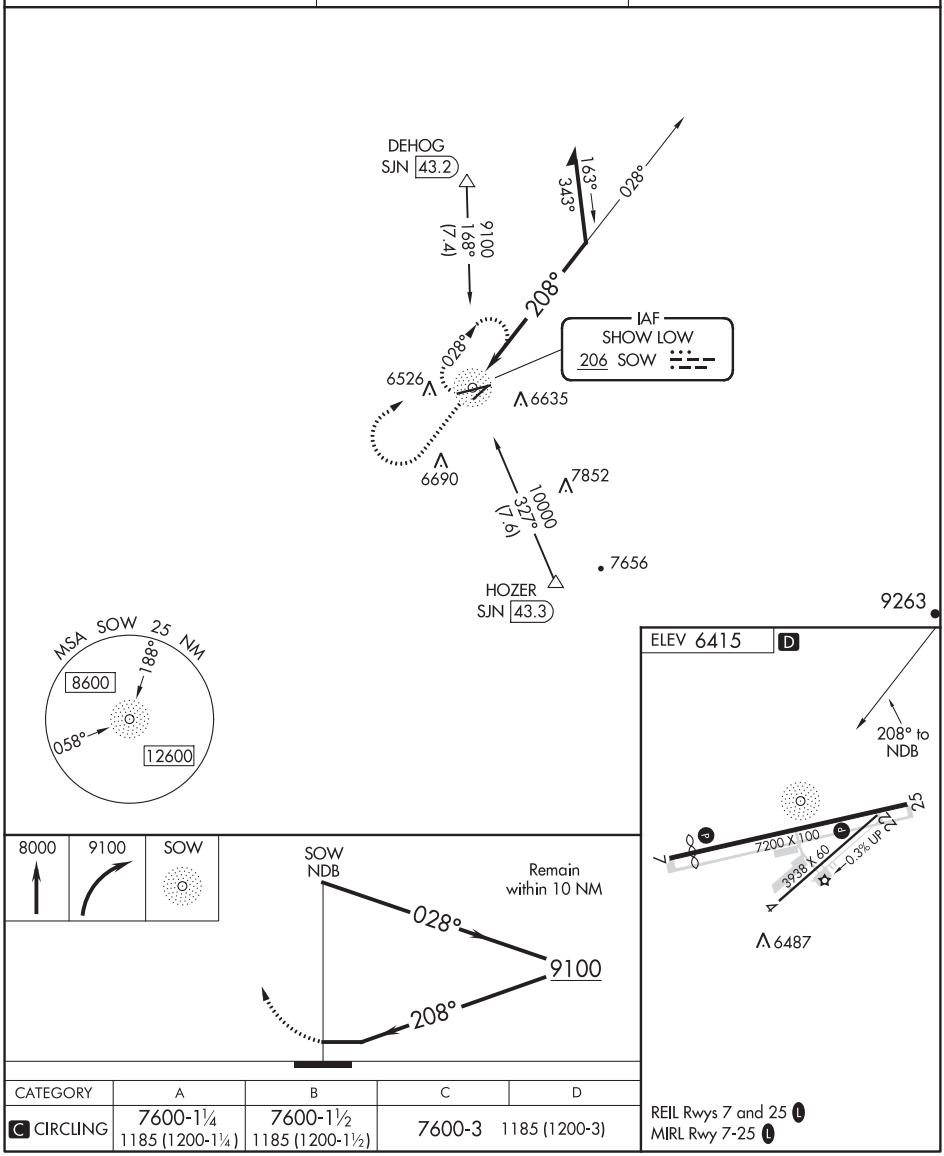
NDB SOW	APP CRS	Rwy ldg	N/A
206	208°	TDZE	N/A
		Apt Elev	6415

NDB-A
SHOW LOW RGNL (SOW)

Circling to Rwy 4 NA at night.
NA Circling NA southeast of Rwys 4 and 25.
When local altimeter setting not received, procedure NA.
Rwy 4 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 8000 then climbing right turn to 9100 direct SOW NDB and hold, continue climb-in-hold to 9100.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
118.075	132.9 239.05	123.0 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	7600-1¼ 1185 (1200-1¼)	7600-1½ 1185 (1200-1½)	7600-3 1185 (1200-3)	

REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

WAAS CH 65740 W24A	APP CRS 236°	Rwy ldg 6001 TDZE 4237 Apt Elev 4265

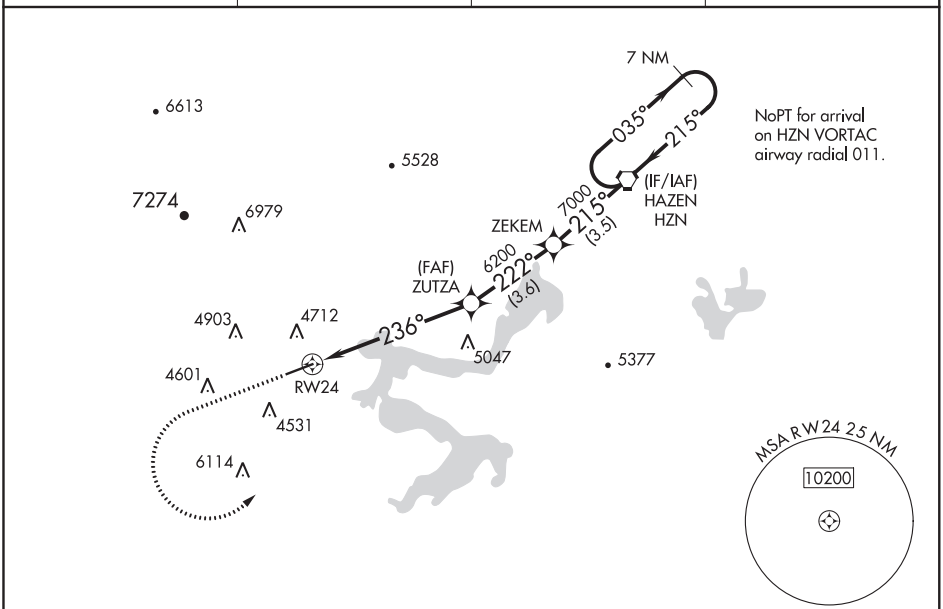
RNAV (GPS) RWY 24
SILVER SPRINGS (SPZ)

T NA

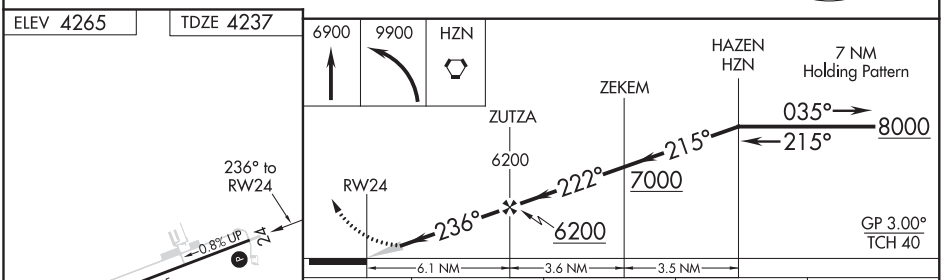
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Use Fallon NAS (Van Voorhis Fld) altimeter setting; when not received, use Reno/Tahoe Intl altimeter setting.

MISSED APPROACH: Climb to 6900 then climbing left turn to 9900 direct HZN VORTAC and hold, continue climb-in-hold to 9900.
*Missed approach requires minimum climb of 315 feet per NM to 6900.

AWOS-2	NFL ATIS *	NAVY FALLON APP CON	CTAF
120.475	370.925	120.85 360.2	122.9 L



ELEV 4265 TDZE 4237



CATEGORY	A	B	C	D
LPV DA*	4593-1¼ 356 (400-1¼)			NA
LPV DA	5007-3 770 (800-3)			NA
LNAV/VNAV DA	5209-4 972 (1000-4)			NA
LNAV MDA	5280-1¼ 1043 (1100-1¼)	5280-1½ 1043 (1100-1½)	5280-3 1043 (1100-3)	NA
C CIRCLING	5280-1¼ 1015 (1100-1¼)	5620-1½ 1355 (1400-1½)	6040-3 1775 (1800-3)	NA

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

SPANISH FORK, UTAH

AL-11420 (FAA)

20198

WAAS CH 78042 W12A	APP CRS 121°	Rwy ldg 6500 TDZE 4527 Apt Elev 4530

RNAV (GPS) Y RWY 12

SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK)

RNP APCH.

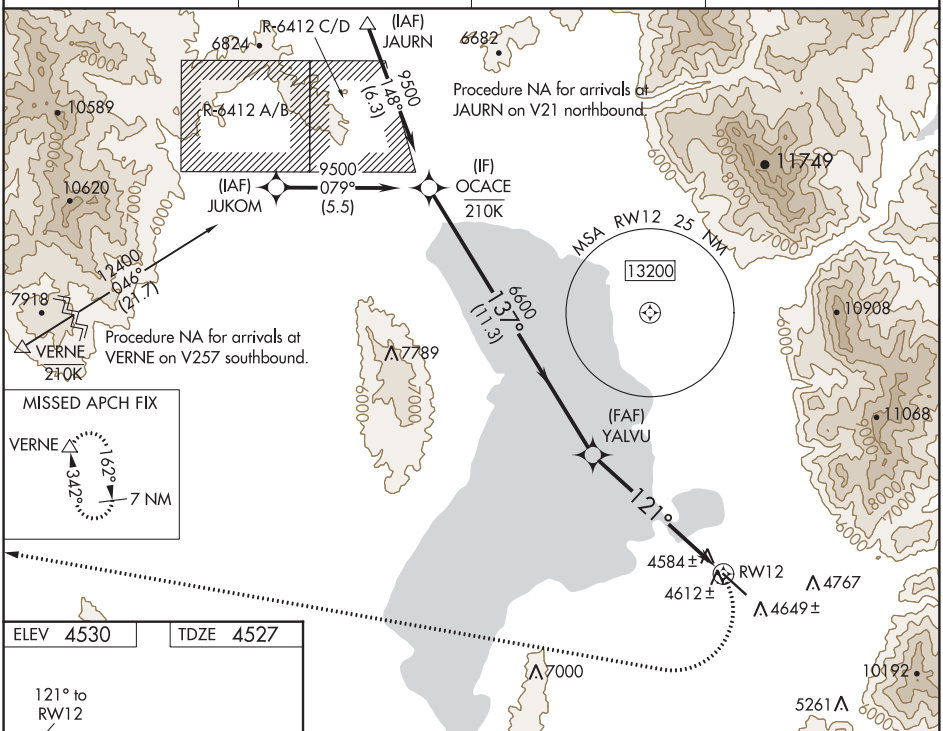
NA

-21°C

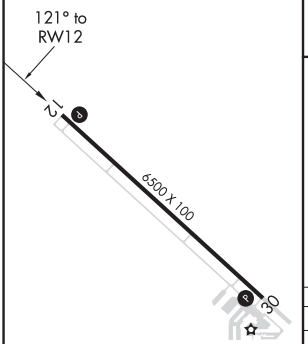
Rwy 12 helicopter visibility reduction below ¾ SM NA. Use Provo altimeter setting; when not received use Nephi altimeter setting: increase all MDAs 120 feet.

MISSED APPROACH: (Do not exceed 185K until turn completion) Climbing right turn to 11500 direct VERNE and hold.

AWOS-2	PVU AWOS-3PT	SALT LAKE CITY APP CON	CTAF
119.275	135.175	118.85 233.7	122.9 L

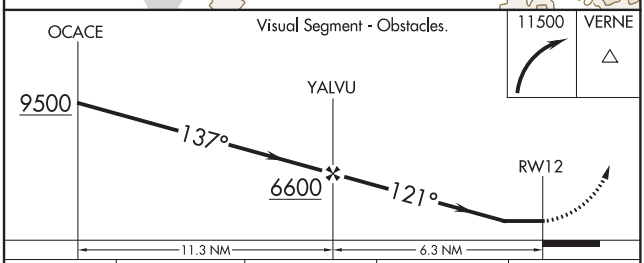


ELEV 4530 | TDZE 4527



MIRL Rwy 12-30 L

REIL Rwys 12 and 30 L



CATEGORY	A	B	C	D
LP MDA	6040-1¼ 1513 (1600-1¼)	6040-1½ 1513 (1600-1½)	6040-3 1513 (1600-3)	
LNAV MDA	6140-1¼ 1613 (1700-1¼)	6140-1½ 1613 (1700-1½)	6140-3 1613 (1700-3)	
C CIRCLING	6180-1¼ 1650 (1700-1¼)	6180-1½ 1650 (1700-1½)	6180-3 1650 (1700-3)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82342 W12B	APP CRS 121°	Rwy ldg 6500 TDZE 4527 Apt Elev 4530

RNAV (GPS) Z RWY 12

SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK)

RNP APCH.

NA

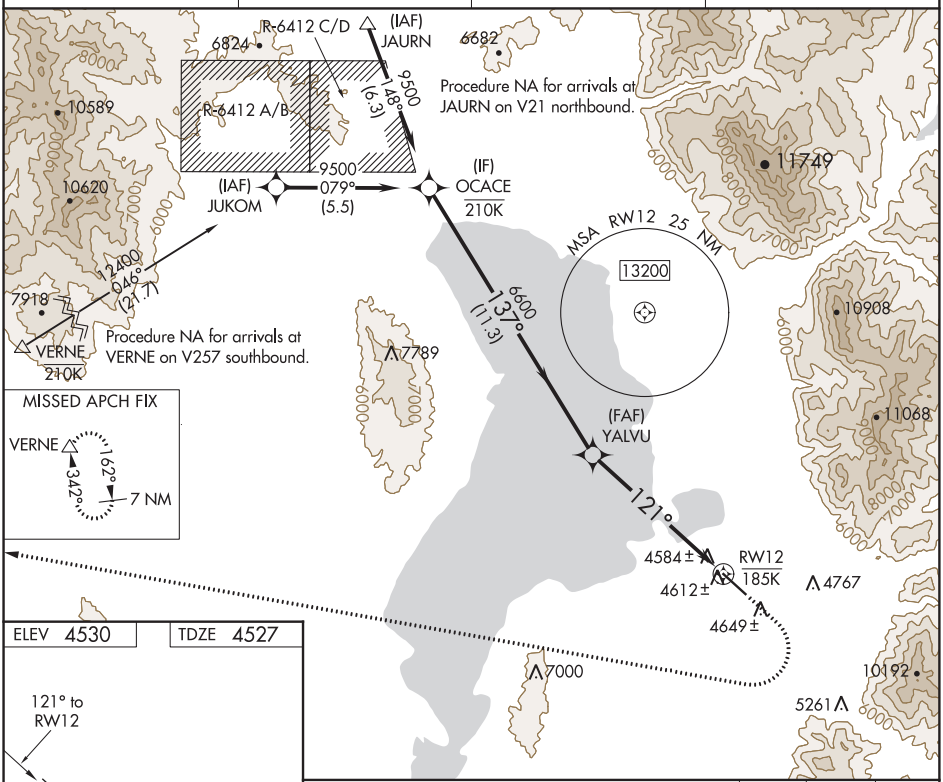
-21°C

Use Provo altimeter setting; when not received use Nephi altimeter setting: increase all MDAs 120 feet. Rwy 12 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: (Do not exceed 185K until turn completion) Climb to 5000, then climbing right turn to 11500 direct VERNE and hold.

*Missed approach requires minimum climb of 380 feet per NM to 7700; if unable to meet climb gradient, see RNAV (GPS) Y RWY 12.

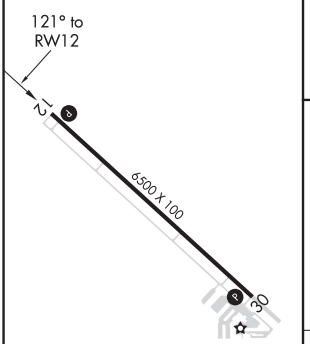
AWOS-2	PVU AWOS-3PT	SALT LAKE CITY APP CON	CTAF
119.275	135.175	118.85 233.7	122.9 L



SW-4, 05 NOV 2020 to 31 DEC 2020

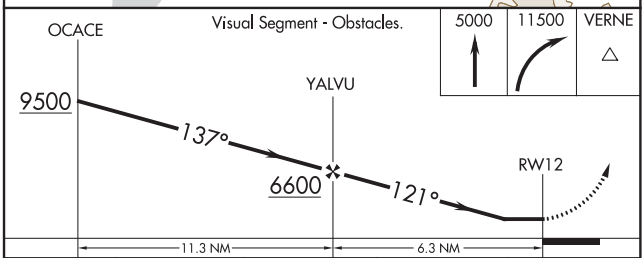
SW-4, 05 NOV 2020 to 31 DEC 2020

ELEV 4530 TDZE 4527



MIRL Rwy 12-30 L

REIL Rwys 12 and 30 L



CATEGORY	A	B	C	D
LP MDA	4880-1 353 (400-1)			
LNAV MDA*	4900-1 373 (400-1)			

SPANISH FORK, UTAH | AL-11420 (FAA) | 20310

APP CRS	Rwy ldg	N/A
084°	TDZE	N/A
	Apt Elev	4530

RNAV (GPS)-A

SPANISH FORK ARPT SPRINGVILLE-WOODHOUSE FIELD (SPK)

RNP APCH.

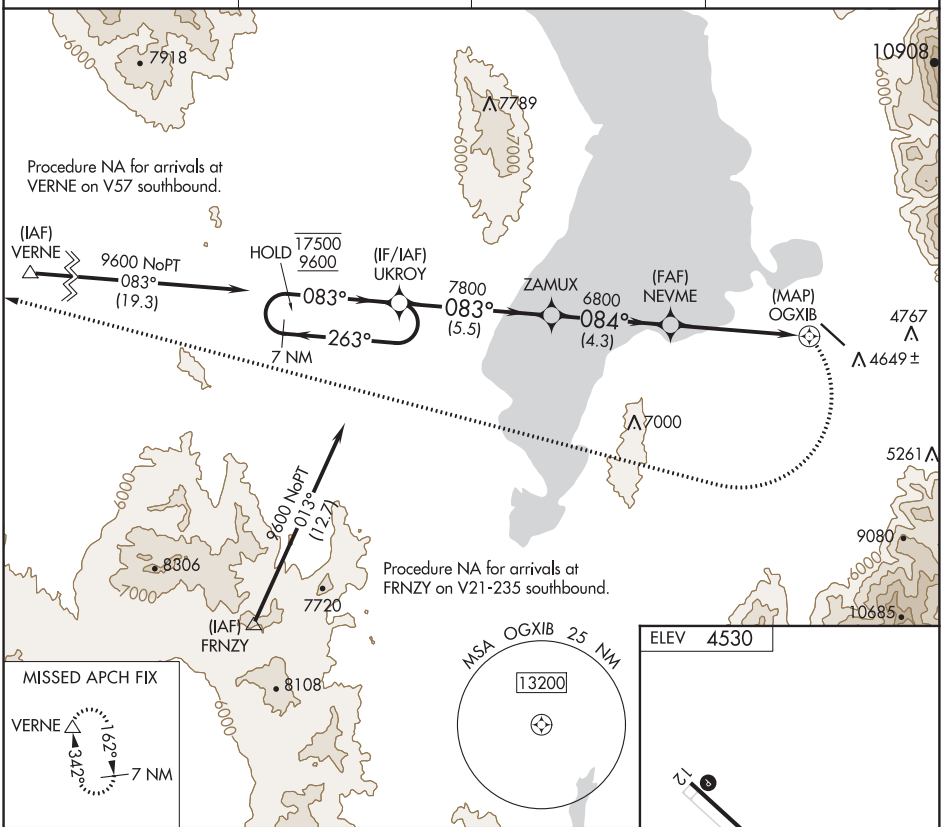
NA

-21°C

Use Provo altimeter setting. When not received use Nephi altimeter setting: increase all MDAs 120 feet.

MISSED APPROACH: (Do not exceed 185K until turn completion) Climbing right turn to 11500 direct VERNE and hold.

AWOS-2	PVU AWOS-3PT	SALT LAKE CITY APP CON	CTAF
119.275	135.175	118.85 233.7	122.9 L



CATEGORY	A	B	C	D
C CIRCLING	6360-1¼ 1830 (1900-1¼)	6360-1½ 1830 (1900-1½)	6360-3 1830 (1900-3)	NA

MIRL Rwy 12-30 L

REIL Rwys 12 and 30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

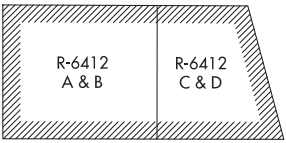
SW-4, 05 NOV 2020 to 31 DEC 2020

SPANISH FORK ONE DEPARTURE (OBSTACLE)

AL-11420 (FAA)

SPANISH FORK, UTAH

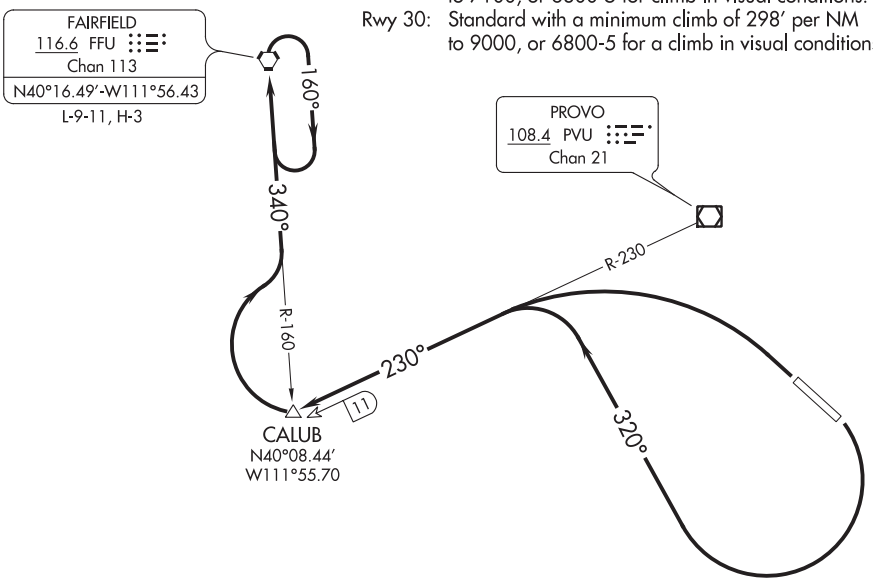
SALT LAKE CITY DEP CON
118.85 233.7
CTAF
122.9



TAKEOFF MINIMUMS

Rwy 12: Standard with a minimum climb of 455′ per NM to 7100, or 6800-5 for climb in visual conditions.

Rwy 30: Standard with a minimum climb of 298′ per NM to 9000, or 6800-5 for a climb in visual conditions.



NOTE: Chart not to scale.

(NOTES CONTINUED ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 12: Climbing right turn to 11500 on heading 320° and PVU VOR/DME R-230 to CALUB INT/PVU 11 DME, do not exceed 240K until CALUB INT/PVU 11 DME, thence . . . .

TAKEOFF RUNWAY 30: Climbing left turn to 11500 to intercept PVU VOR/DME R-230 to CALUB INT/PVU 11 DME, thence . . . .

. . . . Climbing right turn on FFU R-160 to FFU VORTAC and hold, continue climb-in-hold to cross FFU VORTAC at MCA/MEA for route of flight.

VCOA RUNWAYS 12, 30: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Spanish Fork Arpt Springville-Woodhouse Field at or above 11200 before proceeding on course.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

TAKEOFF OBSTACLE NOTES

Rwy 12: Lighting 10′ from DER, 29′ left of centerline, 2′ AGL/4530′ MSL.
Fence 60′ from DER, 481′ right of centerline, 4535′ MSL.
Building 198′ from DER, 449′ right of centerline, 12′ AGL/4541′ MSL.
Sign, building beginning 297′ from DER, 461′ right of centerline, up to 4552′ MSL.
Building 1023′ from DER, 600′ right of centerline, 4555′ MSL.
Tree 1031′ from DER, 651′ left of centerline, 4563′ MSL.
Tree, building beginning 1140′ from DER, 503′ left of centerline, up to 4565′ MSL.
Building 1173′ from DER, 560′ right of centerline, 4559′ MSL.
Building 1434′ from DER, 855′ right of centerline, 4572′ MSL.
Tree 1514′ from DER, 742′ left of centerline, 4568′ MSL.
Pole 1818′ from DER, 352′ right of centerline, 4576′ MSL.
Pole beginning 3232′ from DER, 1134′ right of centerline, up to 4621′ MSL.
Pole, sign beginning 3499′ from DER, 801′ left of centerline, up to 106′ AGL/4673′ MSL.
Electrical system 3922′ from DER, 628′ right of centerline, 4637′ MSL.
Pole 4450′ from DER, 893′ right of centerline, 4649′ MSL.
Pole 4709′ from DER, 1365′ right of centerline, 4662′ MSL.
Pole 5162′ from DER, 1194′ right of centerline, 4664′ MSL.
Pole 2 NM from DER, 3639′ left of centerline, 4853′ MSL.

Rwy 30: Lighting 9′ from DER, 29′ right of centerline, 2′ AGL/4525′ MSL.
Vegetation 36′ from DER, 145′ right of centerline, 9′ AGL/4527′ MSL.
Tree 750′ from DER, 557′ left of centerline, 4546′ MSL.
Pole 1182′ from DER, 595′ left of centerline, 50′ AGL/4570′ MSL.
Pole beginning 1479′ from DER, 268′ left of centerline, up to 60′ AGL/4579′ MSL.
Tree 1505′ from DER, 550′ right of centerline, 49′ AGL/4565′ MSL.

WAAS CH 40124 W21A	APP CRS 197°	Rwy ldg 8422 TDZE 7032 Apt Elev 7055

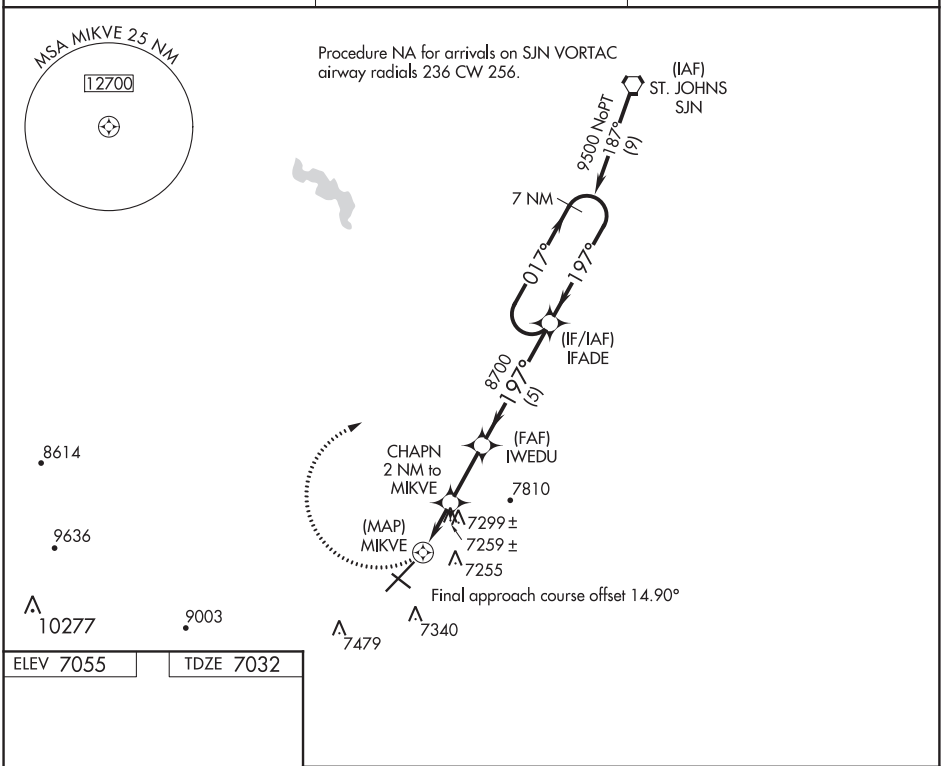
RNAV (GPS) RWY 21
SPRINGERVILLE MUNI (JTC)

T
A NA

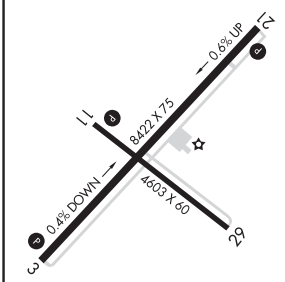
DME/DME RNP-0.3 NA. Rwy 3, 11, 29 helicopter visibility reduction below 1 SM NA. Circling Rwy 3, 11, 29 NA at night.

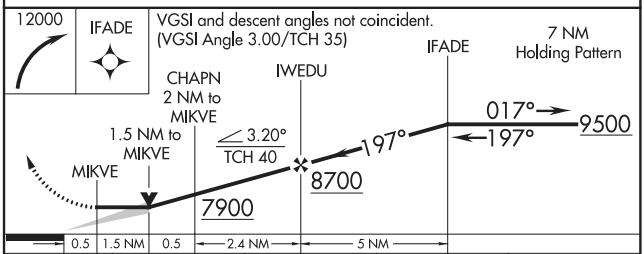
MISSED APPROACH: Climbing right turn to 12000 direct IFADE and hold, continue climb-in-hold to 12000.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
119.65	132.9 239.05	122.8 (CTAF) L★



ELEV 7055	TDZE 7032





CATEGORY	A	B	C	D
LP MDA	7520-1 488 (500-1)		NA	
LNAV MDA	7720-1 688 (700-1)		NA	
CIRCLING	7780-1 725 (800-1)		NA	

MIRL Rwys 3-21 and 11-29 L★

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TAYLOR, ARIZONA | AL-9422 (FAA) | 18088

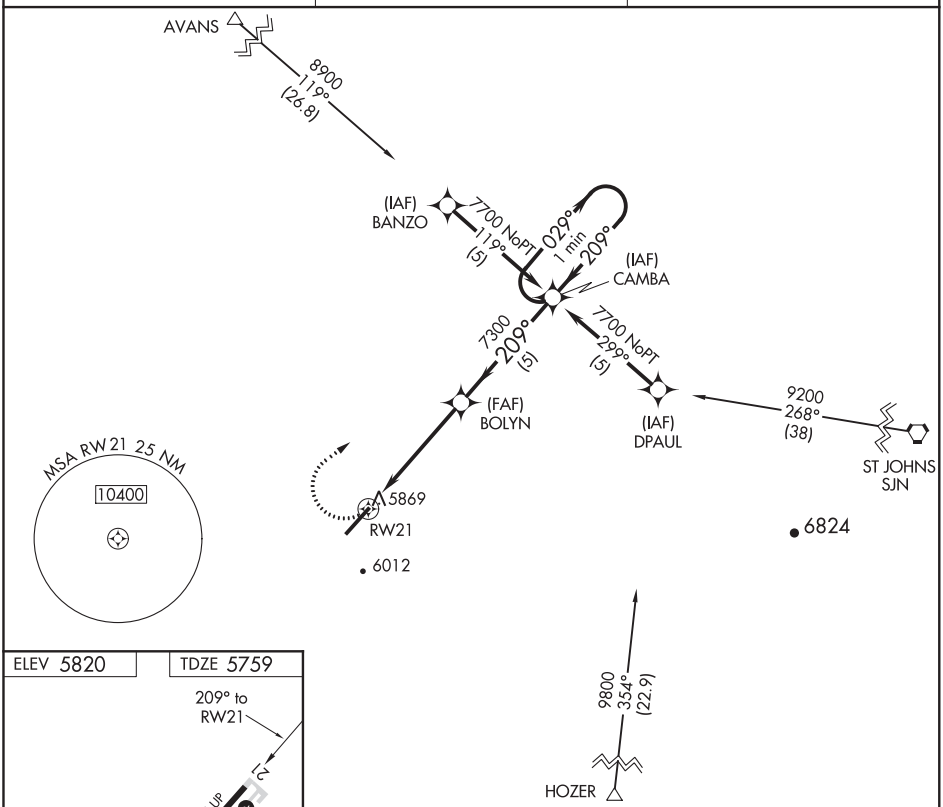
APP CRS	Rwy ldg	7001
209°	TDZE	5759
	Apt Elev	5820

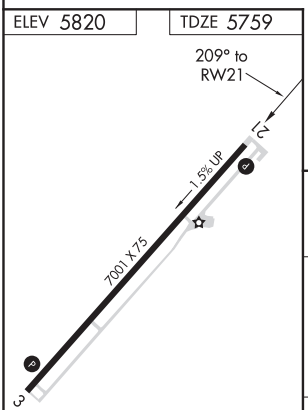
GPS RWY 21
TAYLOR (TYL)

T
NA

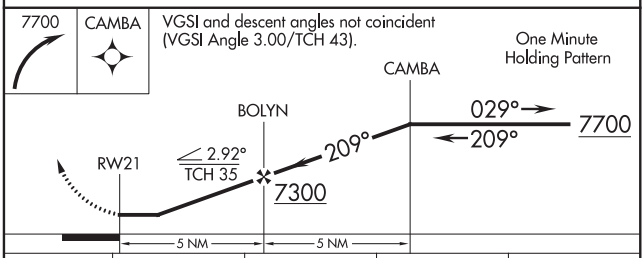
MISSED APPROACH: Climbing right turn to 7700 direct CAMBA WP and hold.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
119.075	132.9 239.05	122.7 (CTAF) L





REIL Rwys 3 and 21 L
MIRL Rwy 3-21 L



CATEGORY	A	B	C	D
S-21	6120-1 361 (300-1)			6120-1¼ 361 (300-1¼)
CIRCLING	6320-1 500 (500-1)	6380-1 560 (600-1)	6380-1½ 560 (600-1½)	6480-2 660 (700-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

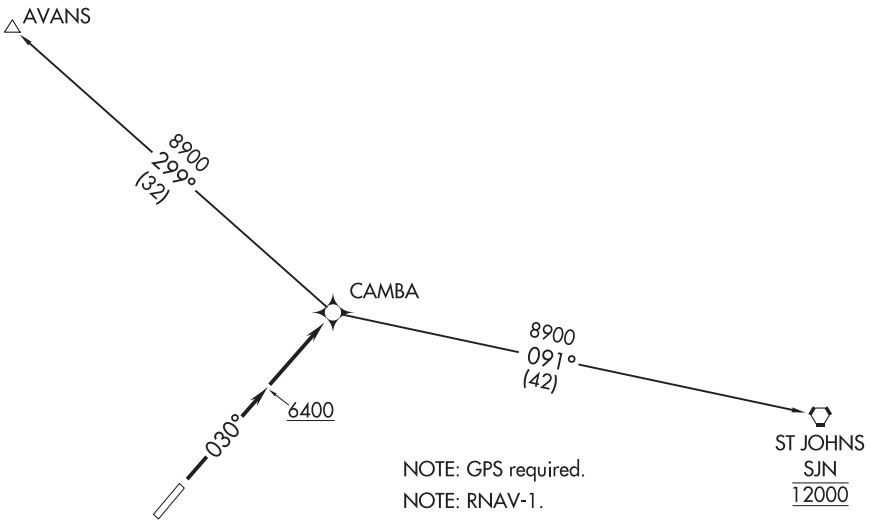
TAYLOR, ARIZONA
Orig-B 02MAY13

34°27′N-110°07′W

TAYLOR (TYL)
GPS RWY 21

ALBUQUERQUE CENTER
132.9 239.05

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: GPS required.

NOTE: RNAV-1.

TAKEOFF MINIMUMS
Rwy 21: NA-ATC.
Rwy 3: Standard.

NOTE: Chart not to scale.

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 030° to 6400, then continue climb to 8900 direct CAMBA. Thence. . . .

. . . .(via assigned transition), maintain 8900, expect filed altitude 10 minutes after departure.

AVANS TRANSITION (CAMBA3.AVANS)

ST JOHNS TRANSITION (CAMBA3.SJN)

TONOPAH, NEVADA | AL-423 (FAA) | 19227

WAAS CH 42924 W15A	APP CRS 150°	Rwy ldg 7158 TDZE 5430 Apt Elev 5430

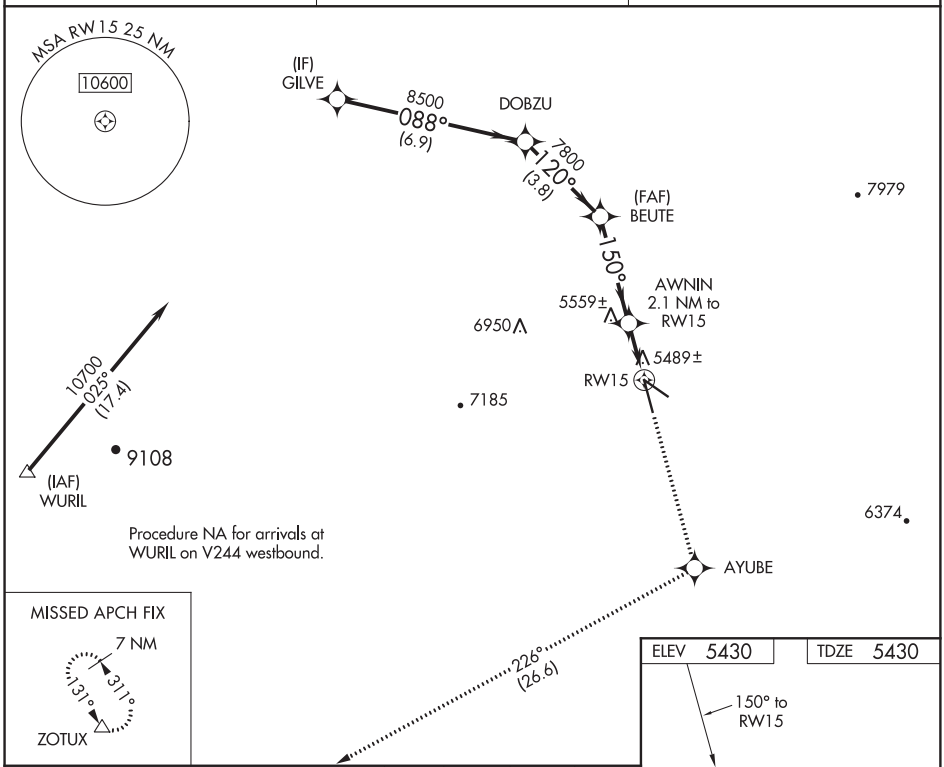
RNAV (GPS) RWY 15
TONOPAH (TPH)

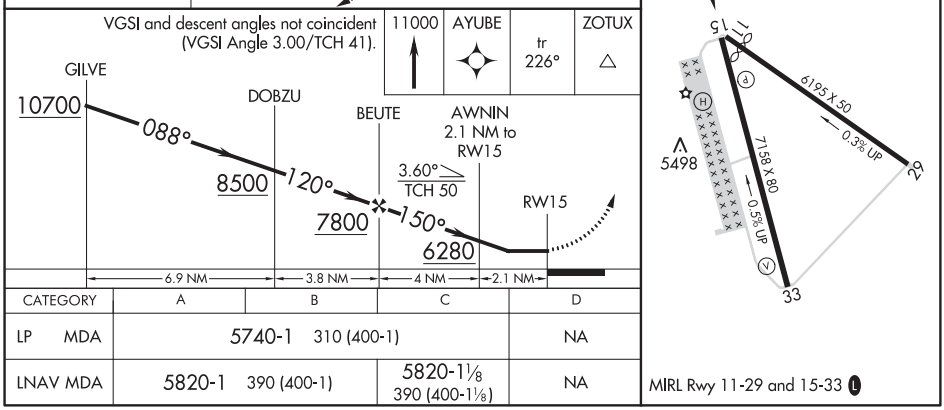
RNP APCH.

When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 11000 direct AYUBE and on track 226° to ZOTUX and hold.

ASOS	NELLIS APP CON	UNICOM
118.875	119.35 254.4	123.0 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	5740-1 310 (400-1)			NA
LNAV MDA	5820-1 390 (400-1)		5820-1⅛ 390 (400-1⅛)	NA

SW-4, 05 NOV 2020 to 31 DEC 2020

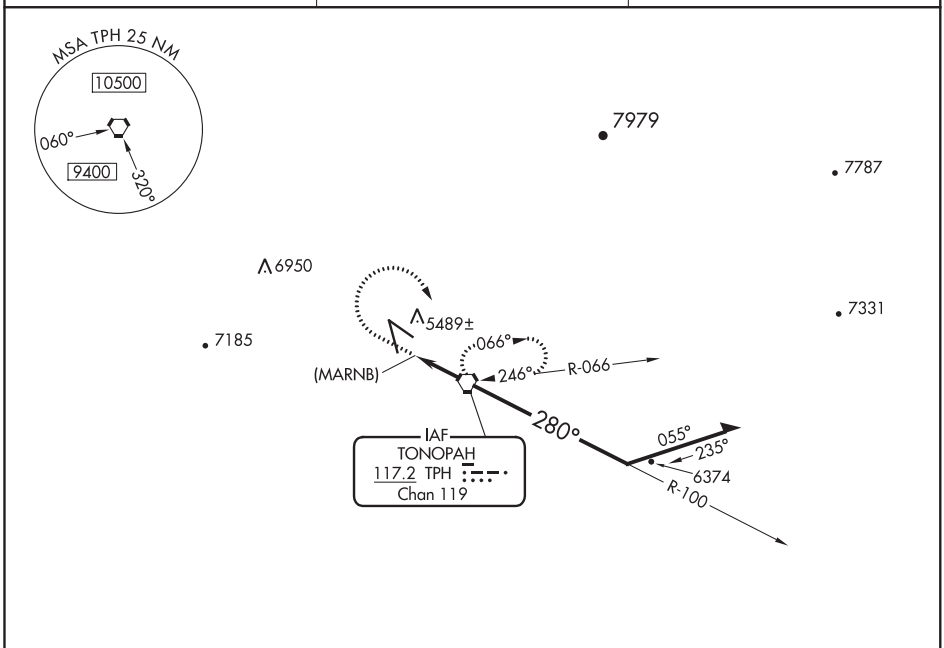
SW-4, 05 NOV 2020 to 31 DEC 2020

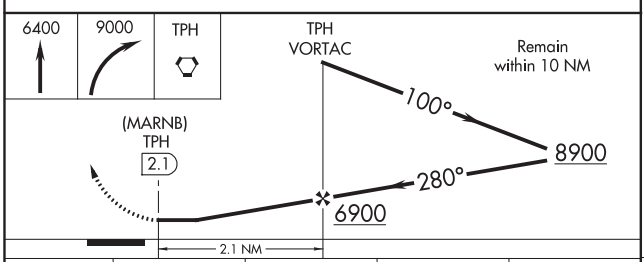
VOR or GPS-A
TONOPAH (TPH)

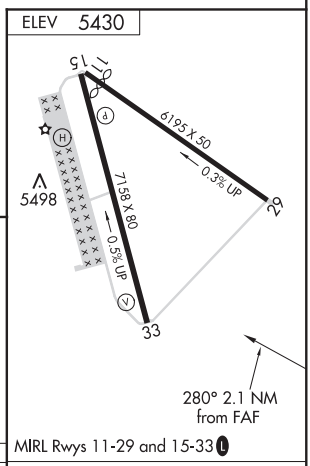
VORTAC TPH 117.2 Chan 119	APP CRS 280°	Rwy ldg N/A TDZE N/A Apt Elev 5430

MISSED APPROACH: Climb to 6400 then climbing right turn to 9000 direct TPH VORTAC and hold.

ASOS	NELLIS APP CON	UNICOM
118.875	119.35 254.4	123.0 (CTAF) L







MIRL Rwys 11-29 and 15-33 L

CATEGORY	A	B	C	D
CIRCLING	6100-1 670 (700-1)		6100-2 670 (700-2)	6100-2¼ 670 (700-2¼)

FAF to MAP 2.1 NM					
Knots	60	90	120	150	180
Min:Sec	2:06	1:24	1:03	0:50	0:42

SW-4, 05 NOV 2020 to 31 DEC 2020

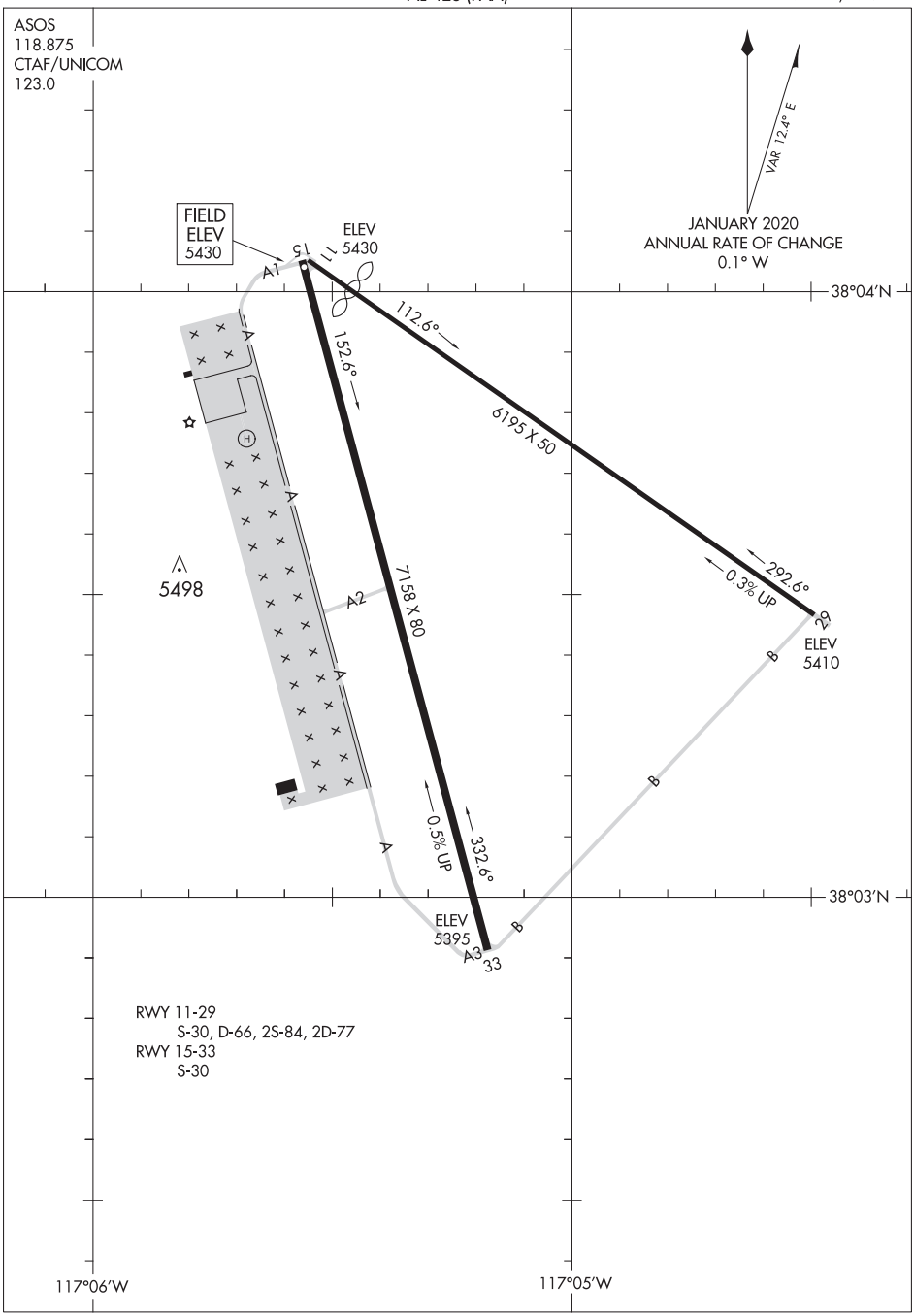
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-423 (FAA)

TONOPAH (TPH)
TONOPAH, NEVADA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
TONOPAH, NEVADA
TONOPAH (TPH)

TONOPAH, NEVADA

ILS or LOC/DME RWY 14

LOC I-RVP 108.3	APCH CRS 141°	Rwy ldg 12,001 THRE 5473 Arpt Elev 5550	AL-3188 [USAF]	TONOPAH TEST RANGE (KTNX)

T *When ALS inop, increase CAT ABCDE vis to ¾ mile.
**When ALS inop, increase CAT AB vis to 1 mile, CAT CDE to 1⅜ miles.
***Circling not authorized West of Rwy 14/32.

ALSF-1

MISSED APPROACH: Turn left climbing to 11,000 via TQQ R-340 to CIBMU and hold, continue climb-in-hold to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5

TACAN only aircraft: Holding at TPH NA.

CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5558′ MSL, 200′ prior to Rwy 32 threshold, 200′ left of centerline.

When VGSI inop, procedure NA at night. USAF ONLY: When Rwy 14 VGSI inop, straight-in Rwy 14 authorized at night with MAJCOM A3 approval.
CAUTION: When Rwy 32 VGSI inop, circling to Rwy 32 NA at night.

ILS Rwy 14; ILS procedure NA for Height Group 4 aircraft due to low TCH.

R-322 R-340 R-265 R-315 TQQ 28 (IAF) JADPU TQQ 18 11,000 CIBMU TQQ 18 (IF) JEPAR TQQ 14 JANAV TQQ 7.2 7913 6811 9300 6389 (6.9) 142° 322° 160° 340° 085° 265° 141° 321° Max holding 310 KIAS 9404 8435 5690 5660 5732 7138

IAF TONOPAH 117.2 TPH Chan 119

SILVERBOW 113.0 TQQ Chan 77

LOCALIZER 108.3 I-RVP

MSA TQQ 25 NM 9000 10,500 9500 090° 180° 270°

EMERG SAFE ALT 100 NM 16,600

VGSI and descent angles not coincident.

11,000 CIBMU TQQ R-340 18

JEPAR 14 9300 141° JANAV 7.2 2.9 OSRIE 2 VORTAC 7200 GS 2.75° TCH 42 5.2 NM 0.5 NM

ELEV 5550 THRE 5473

141° 5.7 NM from FAF

5477 5568 0.6% UP 12,001 x 150 5573 TWR 32

CATEGORY	A	B	C	D	E
S-ILS 14 *	5673 - ½ 200 (200-½)				
S-LOC 14 **	5960- ½ 487 (500-½)		5960-1 487 (500-1)		
C CIRCLING ***	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)	

HIRL Rwy 14/32 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

18200

ILS or LOC/DME RWY 32

LOC I-UVV	APCH CRS	Rwy ldg / THRE / Arpt Elev
111.7	321°	12,001 / 5550 / 5550

AL-3188 [USAF] TONOPAH TEST RANGE (KTNX)

* When ALS inop, increase CAT CDE vis to 1¼ miles.
** Circling NA West of Rwy 14/32

ALSF-1

MISSED APPROACH: Climb to 11,000 via TQQ VORTAC R-325 to ROCEN and hold, continue climb in hold to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5

When VGSI inop, procedure NA at night.
USAF ONLY: When VGSI inop, straight-in Rwy 32 authorized at night with MAJCOM A3 approval.

ILS Rwy 32; F-28, CV-340/440/580, B-737, C-9, DC-9, C-130, T-43, B-2, S-3 Wheel Crossing Height 15'. ILS procedure NA for Height Group 3 and 4 aircraft due to low TCH.

CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5561' MSL, 200' prior to threshold, 385' left of course.

LOCALIZER 111.7
I-UVV

SILVERBOW
113.0 TQQ
Chan 77

TQQ 28
7913
325°
145°
7756
ROCEN
TQQ 18
6862
R-325
9404
5660
5732
5713
PALAE
TQQ 4
8435
5871
DRAKO
TQQ 7.3
141°
7090
321°
(IF)
JIREM
TQQ 14
7138
(IAF)
JESVO
TQQ
18
321°
141°
TQQ
28
R-141
7795

EMERG SAFE ALT 100 NM 16,600

MSA TQQ 25 NM
180°
9000
090°
10,500
270°
9500

11,000
TQQ
R-325

ROCEN
TQQ
18

VGSI and descent angles not coincident

JESVO
18
JIREM
14
DRAKO
7.3
VORTAC
† LOC ONLY
†PALAE
4
WATLU
1
321°
10,400
8700
6600
7600
GS 2.75°
TCH 30

0.5 NM 3 NM 3.3 NM

ELEV 5550 THRE 5550

HIRL Rwy 14/32 L

14
5568
12,001 x 150
0.6% DOWN
5575
TWR
32
5573
5591
5577
321° 6.8 NM from FAF

CATEGORY	A	B	C	D	E
S-ILS 32	5800-1 250 (300-1)				
S-LOC 32 *	5980-1 430 (500-1)				
C CIRCLING **	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

RNAV (GPS) RWY 14

APCH CRS	Rwy ldg	12,001
141°	TDZE	5496
	Arpt Elev	5550

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

T * When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CD vis to 1⅜ miles.
** Circling not authorized West of Rwy 14/32.

ALSF-1

MISSED APPROACH: Turn left climbing to 11,000 direct JADPU and hold, continue climb-in-hold to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5

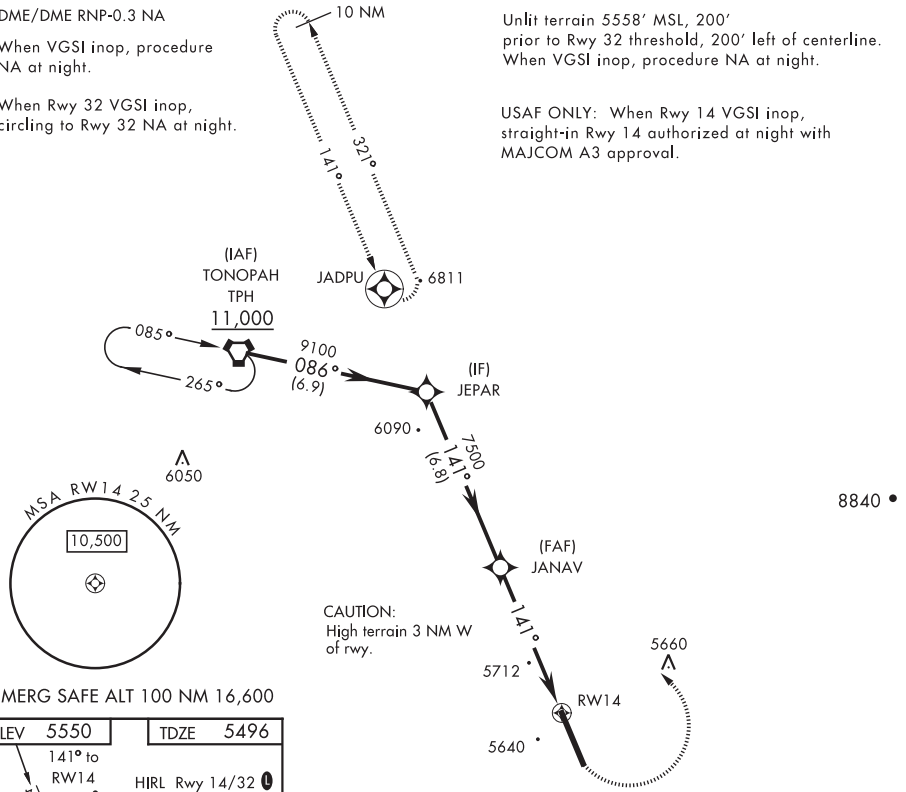
DME/DME RNP-0.3 NA

When VGSI inop, procedure NA at night.

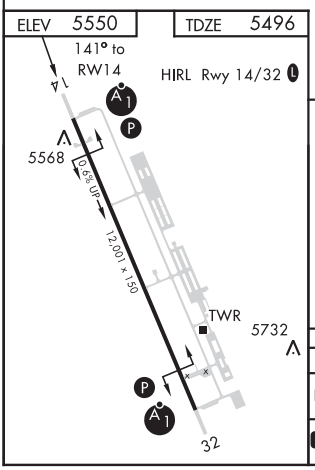
When Rwy 32 VGSI inop, circling to Rwy 32 NA at night.

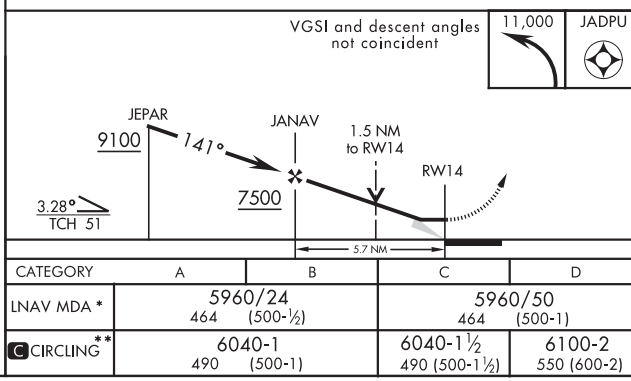
Unlit terrain 5558′ MSL, 200′ prior to Rwy 32 threshold, 200′ left of centerline. When VGSI inop, procedure NA at night.

USAF ONLY: When Rwy 14 VGSI inop, straight-in Rwy 14 authorized at night with MAJCOM A3 approval.



EMERG SAFE ALT 100 NM 16,600





CATEGORY	A	B	C	D
LNAV MDA *	5960/24 464 (500-½)		5960/50 464 (500-1)	
C CIRCLING **	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)

TONOPAH, NEVADA
Amdt 4 29MAR18

37°47′N-116°47′W

TONOPAH TEST RANGE (KTNX)

RNAV (GPS) RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

19059

TONOPAH, NEVADA

RNAV (GPS) RWY 32

APCH CRS	Rwy ldg	12,001
321°	TDZE	5550
	Arpt Elev	5550

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

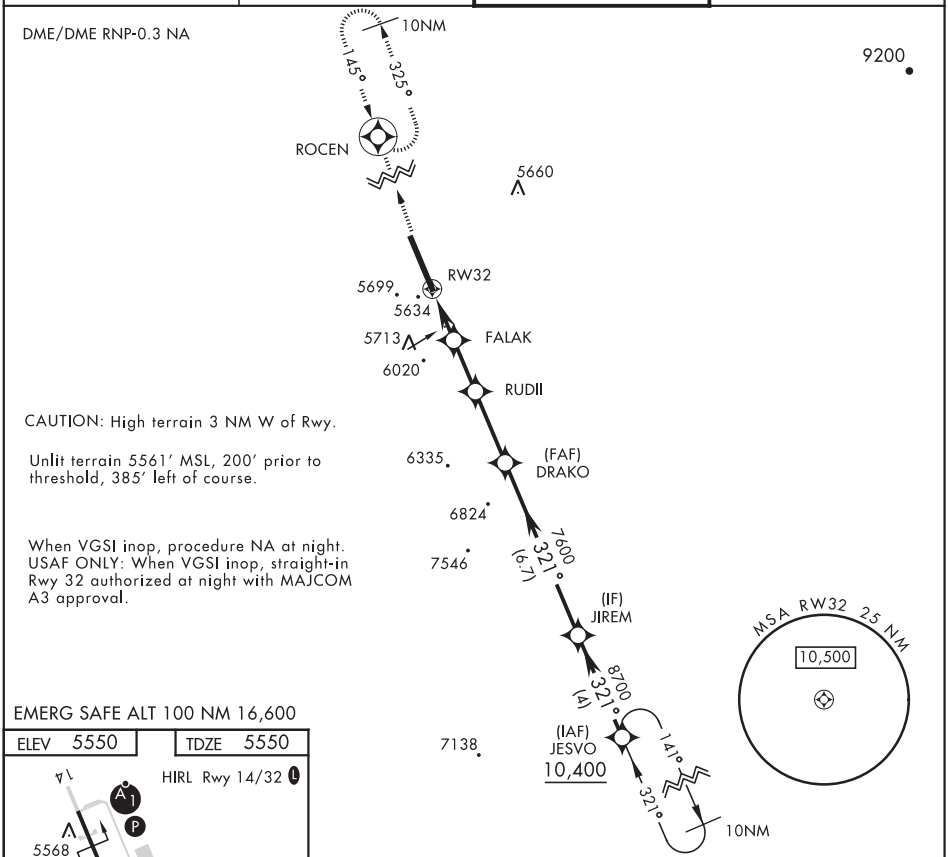
* When ALS inop, increase CAT CD vis to 1¼ miles.
** Circling NA West of Rwy 14/32.

ALSF-1

MISSED APPROACH: Climb to 11,000 direct ROCEN and hold, continue climb-in-hold to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95	127.25 335.5

DME/DME RNP-0.3 NA



CAUTION: High terrain 3 NM W of Rwy.

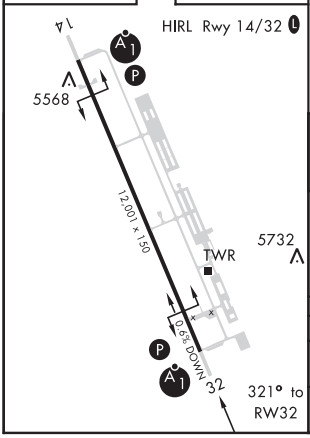
Unlit terrain 5561′ MSL, 200′ prior to threshold, 385′ left of course.

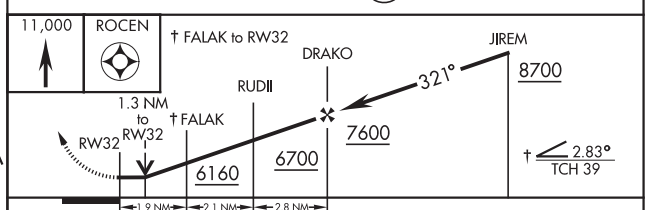
When VGSI inop, procedure NA at night.
USAF ONLY: When VGSI inop, straight-in Rwy 32 authorized at night with MAJCOM A3 approval.

EMERG SAFE ALT 100 NM 16,600

ELEV 5550 | TDZE 5550

HIRL Rwy 14/32





CATEGORY	A	B	C	D
LNAV MDA *	5980/24 430 (500-½)		5980/40 430 (500-¾)	
C CIRCLING **	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

37°47′N-116°47′W

TONOPAH TEST RANGE (KTNX)

Amdt 3 29MAR18

RNAV (GPS) RWY 32

TONOPAH, NEVADA

VOR/DME Z RWY 14

VORTAC TQQ 113.0 Chan 77	APCH CRS 145°	Rwy ldg 12,001 THRE 5473 Arpt Elev 5550

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

*Circling not authorized W of Rwy 14/32.

ALSF-1

MISSED APPROACH: Turn left, climb to 11,000 direct to TPH VORTAC and hold. Continue climb in holding to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95	127.25 335.5

TONOPAH
117.2 TPH
Chan 119

082°
262°

6450
R-325
190°
010°
145°
(IAF)
LOZMO
TQQ
6.5
5705
5580
7415

SILVERBOW
113.0 TQQ
Chan 77

When VGSI inop, procedure NA at night.

USAF ONLY: When Rwy 14 VGSI inop, straight-in Rwy 14 authorized at night with MAJCOM A3 approval.

CAUTION: When Rwy 32 VGSI inop, circling to Rwy 32 NA at night.

CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5558′ MSL, 200′ prior to Rwy 32 threshold, 200′ left of centerline.

MSA TQQ 25 NM
9000
180°
10,500
090°
270°
9500

EMERG SAFE ALT 100 NM 16,600 FROM TQQ

ELEV 5550 | THRE 5473

145° 5 NM from FAF

5568
0.6% UP
12,001 x 150
TWR
5732
32

HIRL Rwy 14/32

VGSI and descent angle not coincident.

LOZMO
6.5
8800
325°
8800
145°
7300
Remain within 10 NM.
3.33°
TCH 51
HUGER
2
VORTAC
4.5 NM
.5

11,000
TPH

CATEGORY	A	B	C	D	E
S-14	5960/24 487 (500-½)		5960/50 487 (500-1)	NOT AUTHORIZED	
C CIRCLING*	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	NOT AUTHORIZED	

TONOPAH, NEVADA

37° 47′N-116° 47′W

TONOPAH TEST RANGE (KTNX)

Amdt 2 29MAY14

VOR/DME Z RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

18200

VOR/DME Z RWY 32

VORTAC TQQ 113.0 Chan 77	APCH CRS 314°	Rwy ldg 12,001 THRE 5550 Arpt Elev 5550

AL-3188 [USAF]

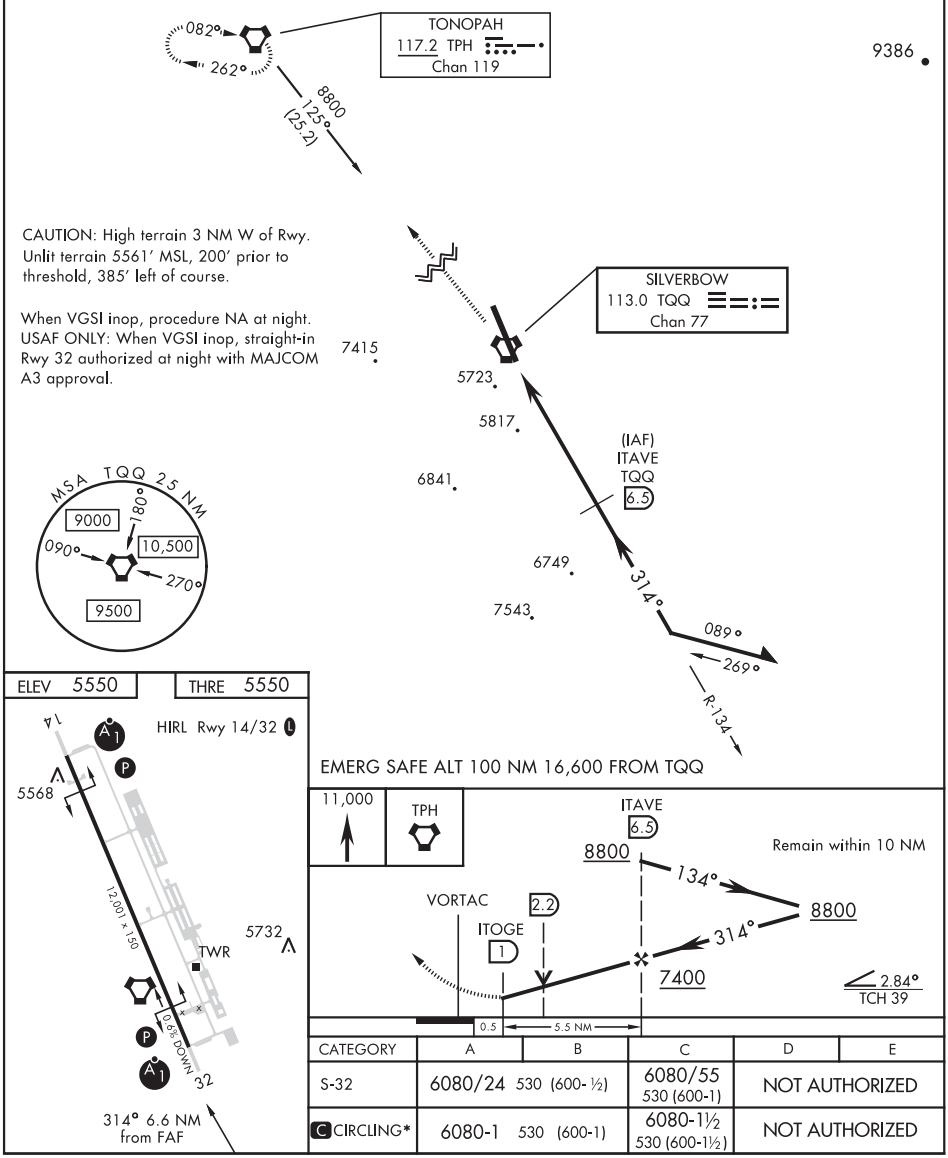
TONOPAH TEST RANGE (KTNX)

T * Circling not authorized W of Rwy 14/32

ALSF-1

MISSED APPROACH: Climb to 11,000 direct to TPH VORTAC and hold. Continue climb in holding to 11,000.

AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5



CATEGORY	A	B	C	D	E
S-32	6080/24 530 (600-½)		6080/55 530 (600-1)	NOT AUTHORIZED	
C CIRCLING*	6080-1 530 (600-1)		6080-1½ 530 (600-1½)	NOT AUTHORIZED	

TONOPAH, NEVADA

Amdt 2 29MAY14

37° 47′N-116° 47′W

TONOPAH TEST RANGE (KTNX)

VOR/DME Z RWY 32

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

VOR/DME or TACAN RWY 14

VORTAC TQQ 113.0 Chan 77	APCH CRS 145°	Rwy ldg 12,001 THRE 5473 Arpt Elev 5550

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

T * When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅜ miles.
** Circling not authorized West of Rwy 32.

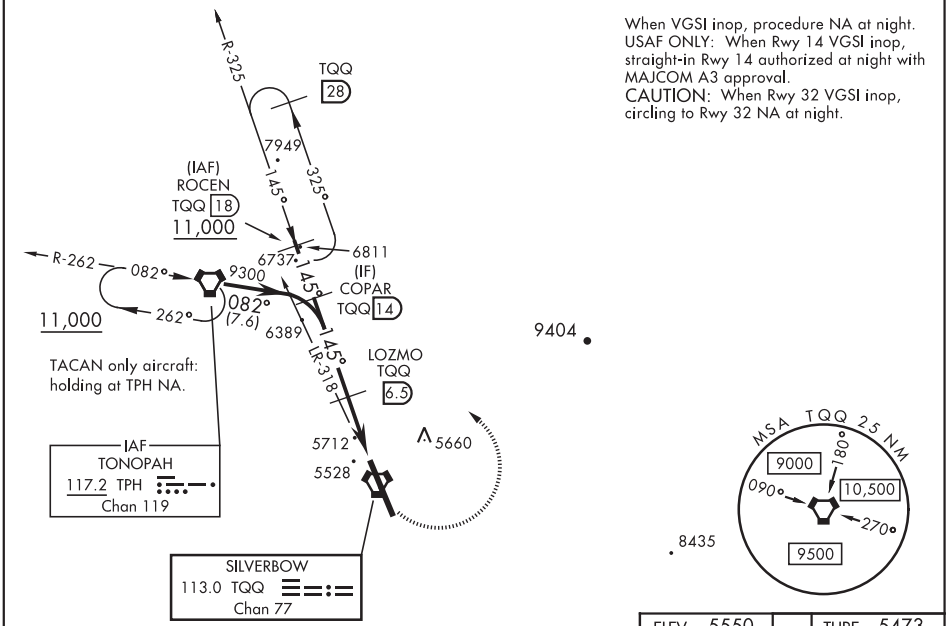
ALSF-1

MISSED APPROACH: Turn left climbing to 11,000 via TQQ R-325 to ROCEN and hold, continue climb-in-hold to 11,000.

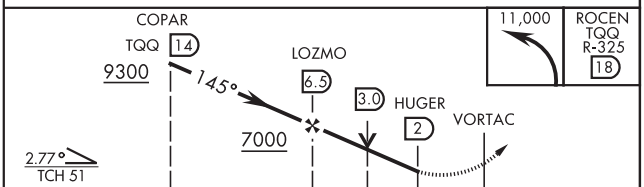
AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5

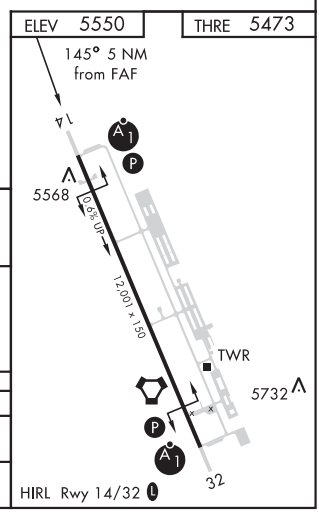
CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5558′ MSL, 200′ prior to Rwy 32 threshold, 200′ left of centerline.

When VGSI inop, procedure NA at night. USAF ONLY: When Rwy 14 VGSI inop, straight-in Rwy 14 authorized at night with MAJCOM A3 approval.
CAUTION: When Rwy 32 VGSI inop, circling to Rwy 32 NA at night.



EMERG SAFE ALT 100 NM 16,600





CATEGORY	A	B	C	D	E
S-14 *	5980-½ 507 (500-½)		5980-1 507 (500-1)		
C CIRCLING**	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)	

TONOPAH, NEVADA
Amdt 3 09JAN14

37°47′N - 116°47′W

TONOPAH TEST RANGE (KTNX)

VOR/DME or TACAN RWY 14

SW-4, 05 NOV 2020 to 31 DEC 2020

TONOPAH, NEVADA

18200

VOR/DME or TACAN RWY 32

VORTAC TQQ 113.0 Chan 77	APCH CRS 314°	Rwy ldg 12,001 THRE 5550 Arpt Elev 5550	AL-3188 [USAF]	TONOPAH TEST RANGE (KTNX)

* When ALS inop, increase CAT CDE vis to 1½ miles.
** Circling NA W of Rwy 14/32

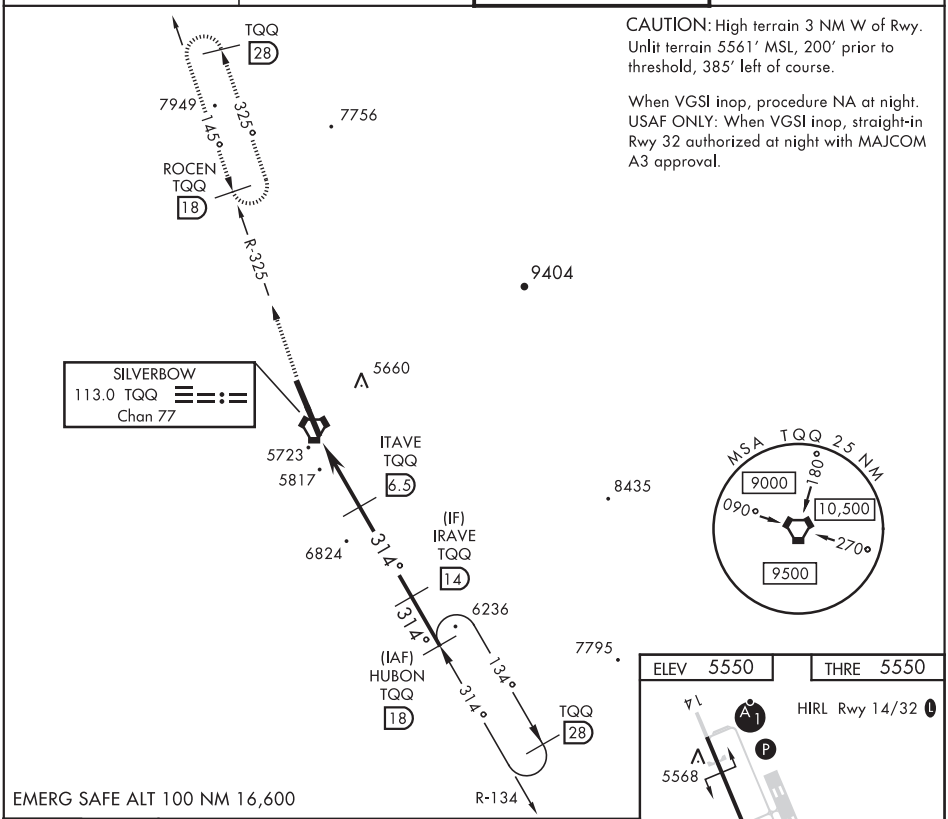
ALSF-1

MISSED APPROACH: Climb to 11,000 via TQQ VORTAC R-325 to ROCEN and hold, continue climb in hold to 11,000.

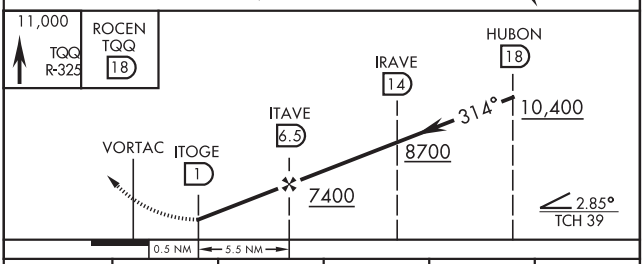
AWOS	NELLIS CONTROL	SILVERBOW TOWER ★	GND CON
113.0	119.35 254.4	124.75 257.95 L	127.25 335.5

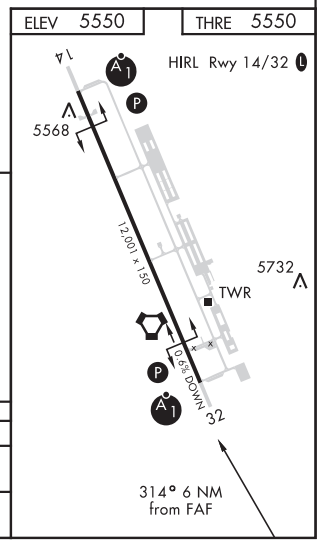
CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5561′ MSL, 200′ prior to threshold, 385′ left of course.

When VGSI inop, procedure NA at night. USAF ONLY: When VGSI inop, straight-in Rwy 32 authorized at night with MAJCOM A3 approval.

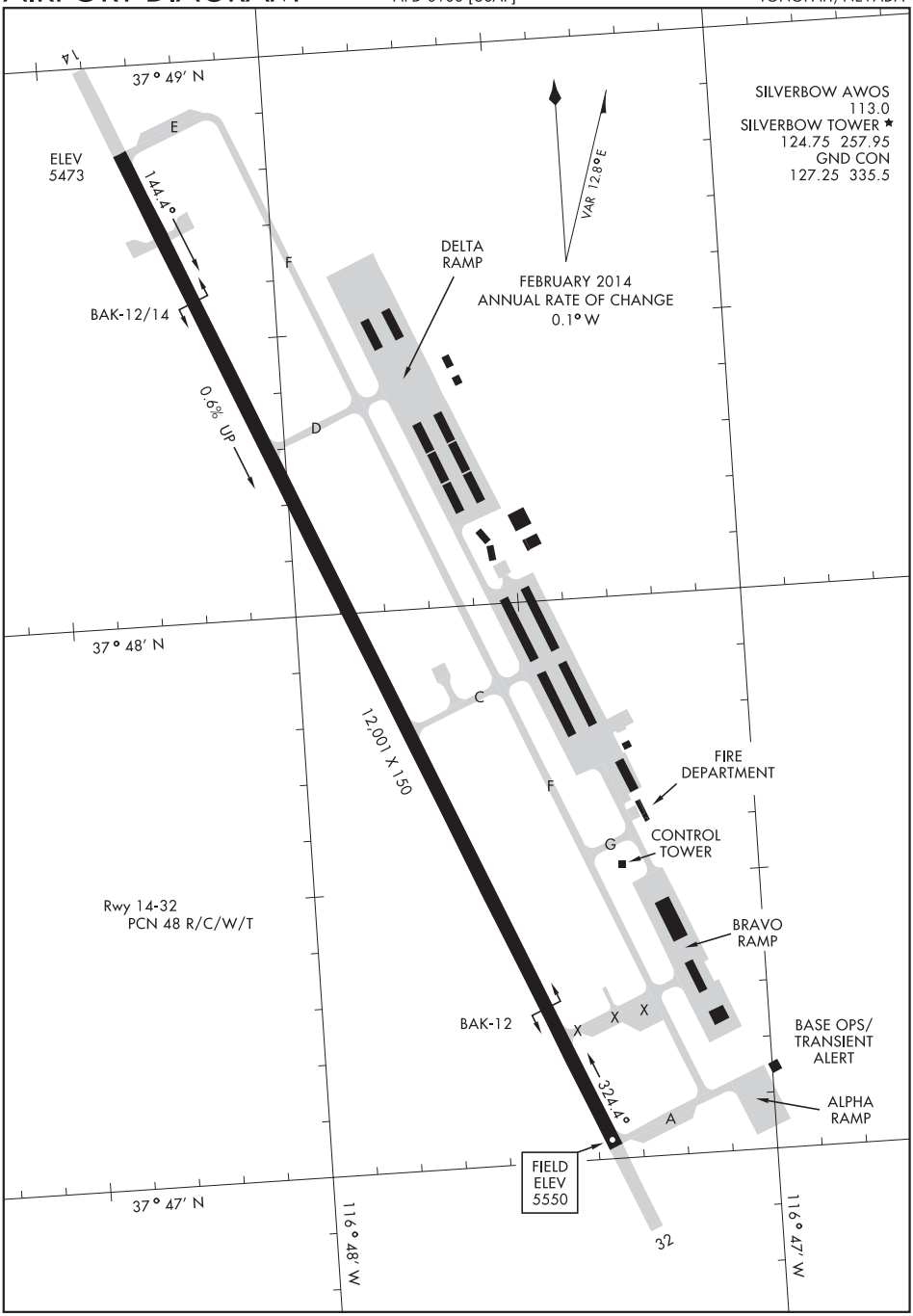


EMERG SAFE ALT 100 NM 16,600





CATEGORY	A	B	C	D	E
S-32 *	6080-1 530 (600-1)				
C CIRCLING **	6080-1 530 (600-1)		6080-1½ 530 (600-1½)	6100-2 550 (600-2)	



SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

18200

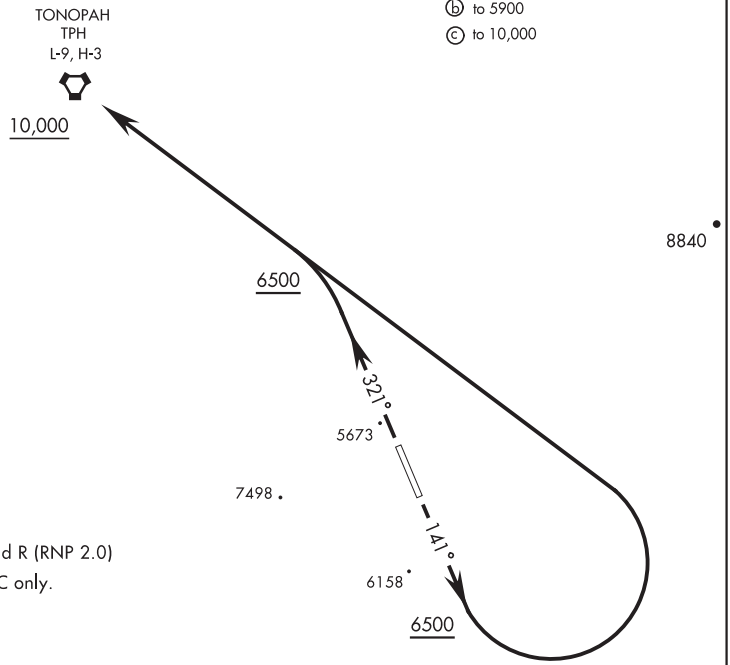
RANGE TWO (RNAV) DEPARTURE (RANGE2•TPH)

TONOPAH TEST RANGE (KTNX)
SHL-3188 [USAF]
TONOPAH, NEVADA

GND CON
127.25 335.5
SILVERBOW TOWER ★
124.75 257.95
NELLIS CONTROL
119.35 254.4

Rwy	Knots	60	120	180	240	300	360
14 ⓐ	V/V(fpm)	205	410	615	820	1025	1230
32 ⓑ	V/V(fpm)	260	520	780	1040	1300	1560
32 ⓒ	V/V(fpm)	263	526	789	1052	1315	1578

MINIMUM CLIMB RATE
ⓐ to 7500
ⓑ to 5900
ⓒ to 10,000



For use by E/F/G and R (RNP 2.0) equipped A/C only.

GPS REQUIRED

T

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb heading 141°. When leaving 6500 turn left direct TPH VORTAC, cross TPH at or above 10,000.

TAKE-OFF RWY 32: Climb heading 321°. When leaving 6500 turn left direct TPH VORTAC, cross TPH at or above 10,000.

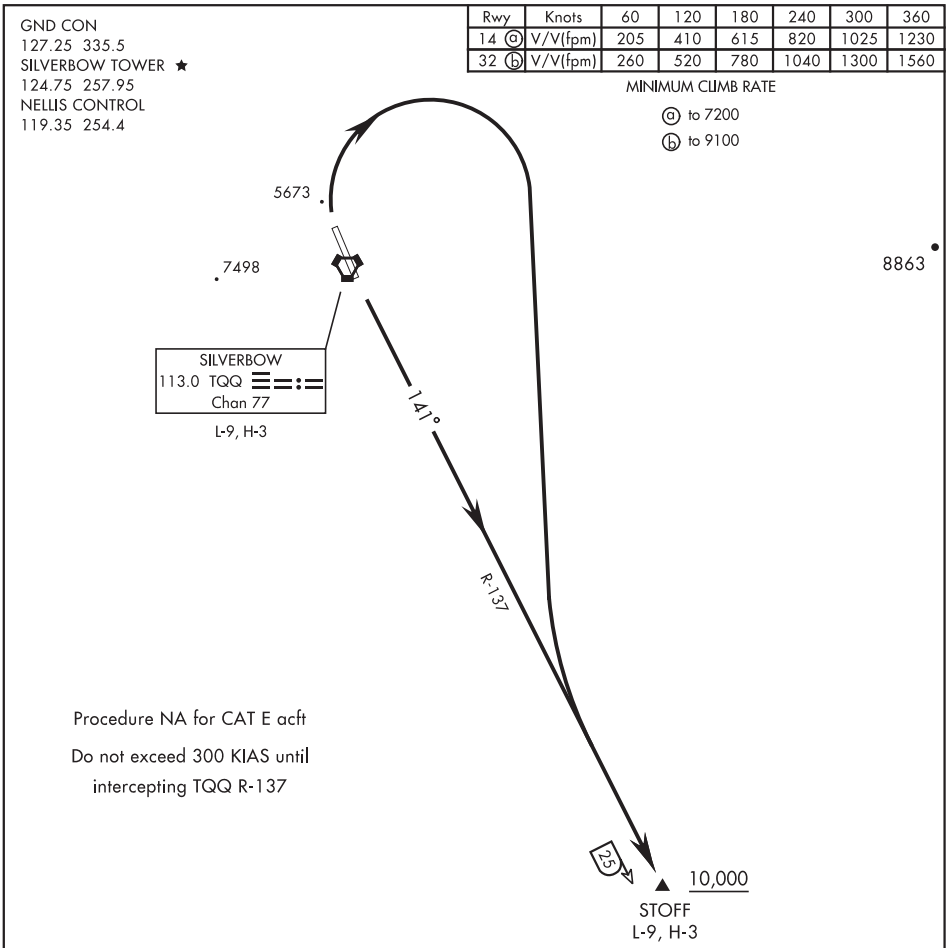
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

STOFF TWO DEPARTURE (STOFF2·STOFF)

SHL-3188 [USAF]

Rwy	Knots	60	120	180	240	300	360
14 ⓐ	V/V(fpm)	205	410	615	820	1025	1230
32 ⓑ	V/V(fpm)	260	520	780	1040	1300	1560

MINIMUM CLIMB RATE
ⓐ to 7200
ⓑ to 9100



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb heading 141° to intercept TQQ VORTAC R-137 to STOFF, cross STOFF at or above 10,000.

TAKE-OFF RWY 32: Climbing right turn to intercept TQQ VORTAC R-137 to STOFF, cross STOFF at or above 10,000.

SW-4, 05 NOV 2020 to 31 DEC 2020

18200

TONOPAH TWO DEPARTURE (TPH2·TPH)

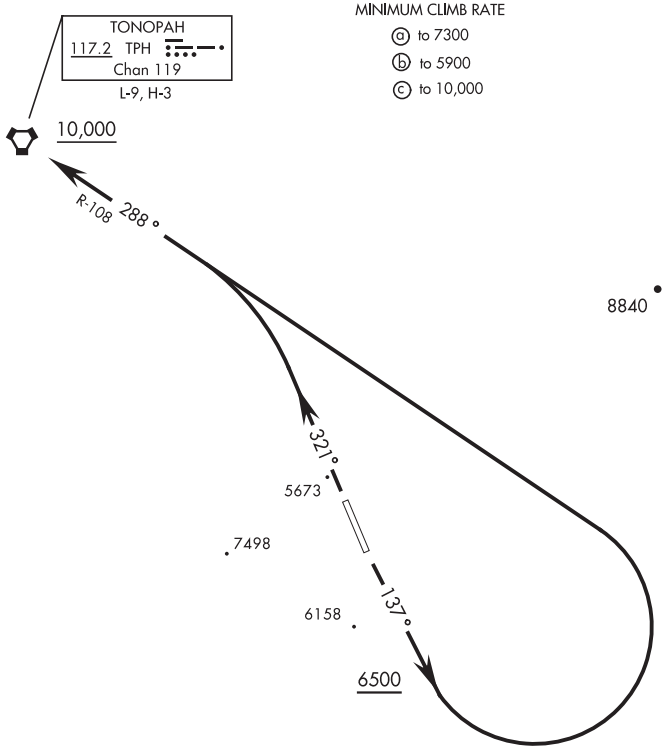
TONOPAH TEST RANGE (KTNX)
TONOPAH, NEVADA

SHL-3188 [USAF]

GND CON
127.25 335.5
SILVERBOW TOWER ★
124.75 257.95
NELLIS CONTROL
119.35 254.4

Rwy	Knots	60	120	180	240	300	360
14 ⓐ	V/V(fpm)	220	440	660	880	1100	1320
32 ⓑ	V/V(fpm)	260	520	780	1040	1300	1560
32 ⓒ	V/V(fpm)	261	522	783	1044	1305	1566

MINIMUM CLIMB RATE
ⓐ to 7300
ⓑ to 5900
ⓒ to 10,000



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Climb heading 137°, when leaving 6500 turn left direct TPH VORTAC. Cross TPH at or above 10,000.

TAKE-OFF RWY 32: Climb heading 321° to intercept TPH VORTAC R-108 direct TPH. Cross TPH at or above 10,000.

TONOPAH TWO DEPARTURE (TPH2·TPH)
TONOPAH, NEVADA
TONOPAH TEST RANGE (KTNX)

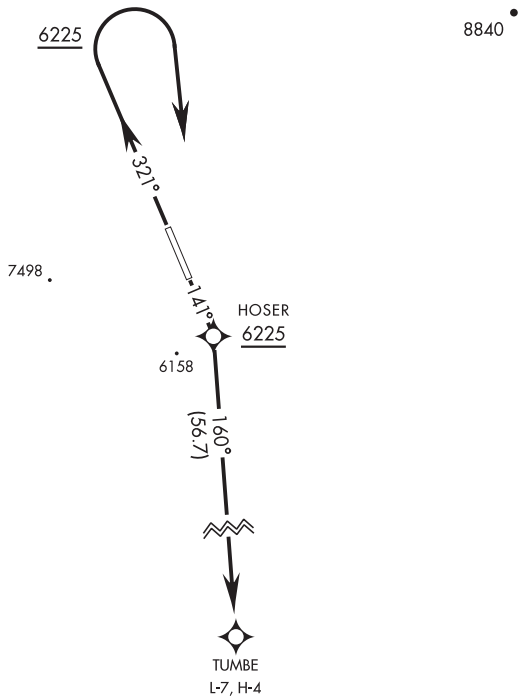
TUMBE ONE (RNAV) DEPARTURE (TUMBE1 · TUMBE)

GND CON
127.25 335.5
SILVERBOW TOWER ★
124.75 257.95
NELLIS CONTROL
119.35 254.4

SHL-3188 [USAF]

Rwy	Knots	60	120	180	240	300	360
14 ⓐ	V/V(fpm)	300	600	900	1200	1500	1800
32 ⓑ	V/V(fpm)	265	530	795	1060	1325	1590

Minimum Climb Rate
ⓐ to 10,700
ⓑ to 5900



GPS REQUIRED

For use by E/F/G and R (RNP 2.0) equipped A/C only.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 14: Fly heading 141°, at 6225 (HOSER) turn right direct TUMBE.

TAKE-OFF RWY 32: Fly heading 321°, at 6225 turn right direct TUMBE.

SW-4, 05 NOV 2020 to 31 DEC 2020
TUMBE ONE (RNAV) DEPARTURE (TUMBE1 · TUMBE)
TONOPAH, NEVADA
TONOPAH TEST RANGE (KTNX)

TOOELE, UTAH | AL-6944 (FAA) | 19339

LOC/DME I-TVY	APP CRS	Rwy ldg	6100
111.15	166°	TDZE	4297
Chan 48 (Y)		Apt Elev	4322

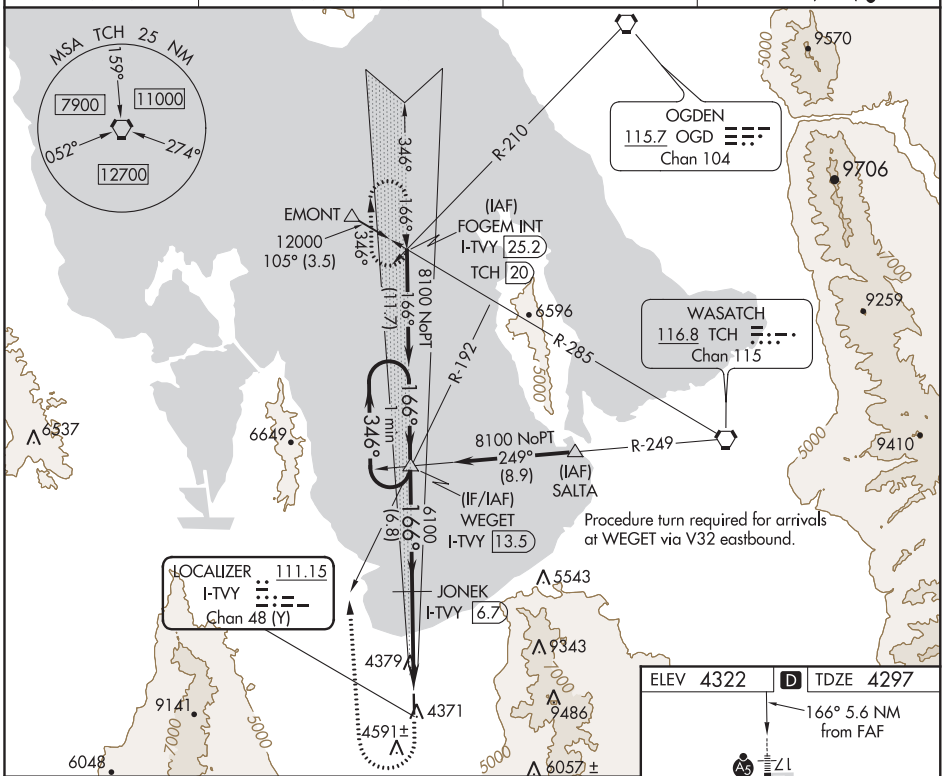
ILS or LOC RWY 17
BOLINDER FIELD-TOOELE VALLEY (TVY)

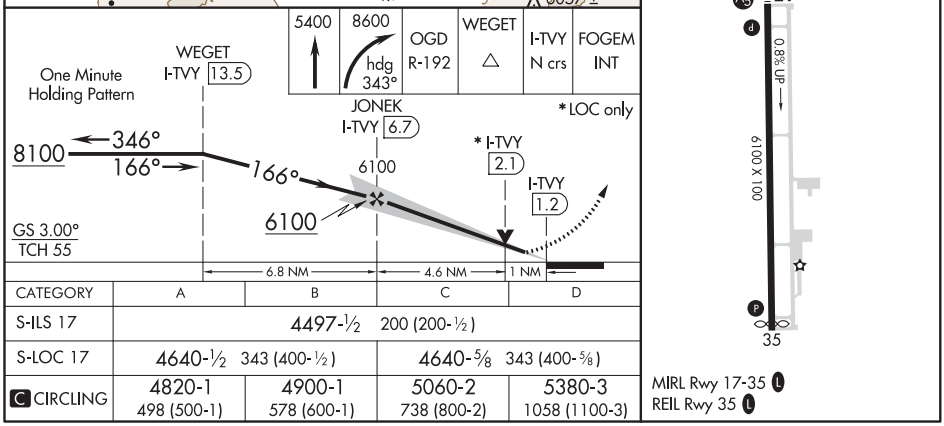
DME required.
For inop ALS, increase S-LOC Cat C/D visibility to 1 SM.

MALSR

MISSED APPROACH: Climb to 5400 then climbing right turn to 8600 heading 343° and OGD VORTAC R-192 to WEGET INT/I-TVY 13.5 DME and I-TVY north course to FOGEM INT/I-TVY 25.2 DME and hold.

AWOS-3	SALT LAKE CITY APP CON	CLNC DEL	UNICOM
119.725	135.5 316.15	124.4	123.0 (CTAF)





CATEGORY	A	B	C	D
S-ILS 17	4497-½ 200 (200-½)			
S-LOC 17	4640-½ 343 (400-½)		4640-⅝ 343 (400-⅝)	
C CIRCLING	4820-1 498 (500-1)	4900-1 578 (600-1)	5060-2 738 (800-2)	5380-3 1058 (1100-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TOOELE, UTAH
Amdt 3 14SEP17

40°37′N-112°21′W

BOLINDER FIELD-TOOELE VALLEY (TVY)
ILS or LOC RWY 17

WAAS CH 73031 W17A	APP CRS 166°	Rwy ldg 6100 TDZE 4297 Apt Elev 4322

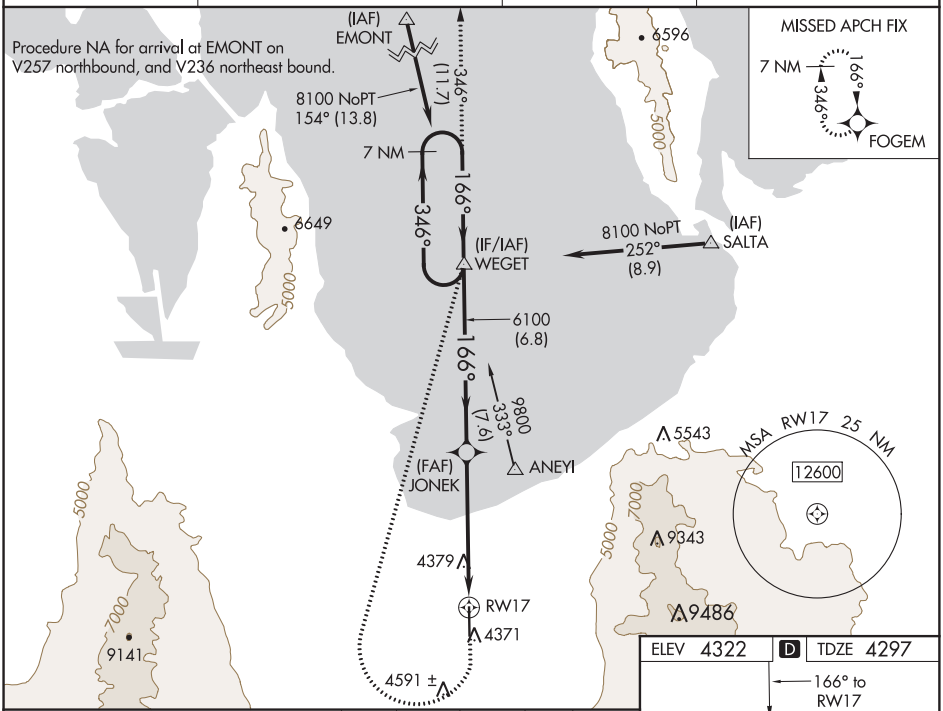
RNAV (GPS) RWY 17
BOLINDER FIELD-TOOELE VALLEY (TVY)

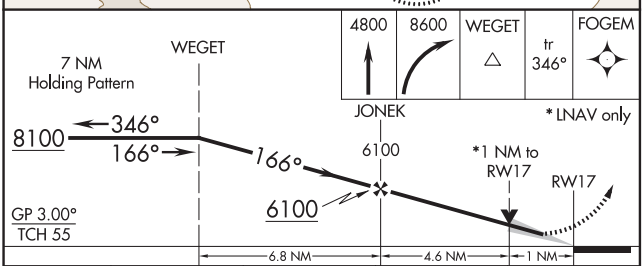
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats visibility to ⅞ SM, increase LNAV Cat C/D visibility to 1 SM.

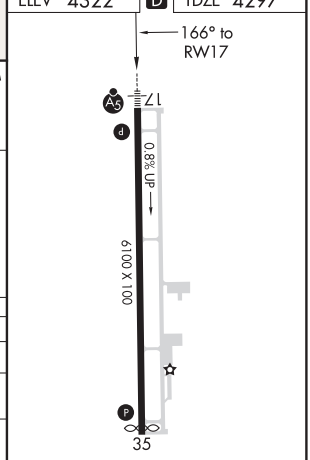
MALSR

MISSED APPROACH: Climb to 4800 then climbing right turn to 8600 direct WEGET and track 346° to FOGEM and hold.

AWOS-3	SALT LAKE CITY APP CON	CLNC DEL	UNICOM
119.725	135.5 316.15	124.4	123.0 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	4497-½ 200 (200-½)			
LNAV/VNAV DA	4547-½ 250 (300-½)			
LNAV MDA	4640-½ 343 (400-½)		4640-⅝ 343 (400-⅝)	
C CIRCLING	4820-1 498 (500-1)	4900-1 578 (600-1)	5060-2 738 (800-2)	5380-3 1058 (1100-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

(STACO2.STACO) 20086

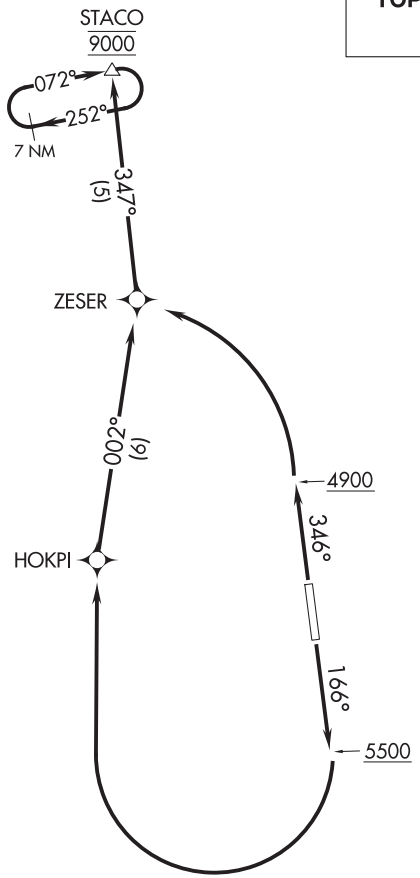
STACO TWO DEPARTURE (RNAV)

AL-6944 (FAA)

BOLINDER FIELD-TOOELE VALLEY (TVY)
TOOELE, UTAH

SLC ASOS
125.625
AWOS-3
119.725
SALT LAKE CITY DEP CON
135.5 316.15
CTAF
123.0

TOP ALTITUDE: 9000



NOTE: RNAV 1.
NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 17: Standard with minimum climb of 350′ per NM to 8200.

Rwy 35: Standard with minimum climb of 380′ per NM to 9000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17: Climb heading 166° to 5500, then climbing right turn direct HOKPI, then on depicted route to STACO, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 346° to 4900, then climbing left turn direct ZESER, then on depicted route to STACO, thence. . . .

. . . . Maintain 9000 and hold at STACO.

SW-4, 05 NOV 2020 to 31 DEC 2020

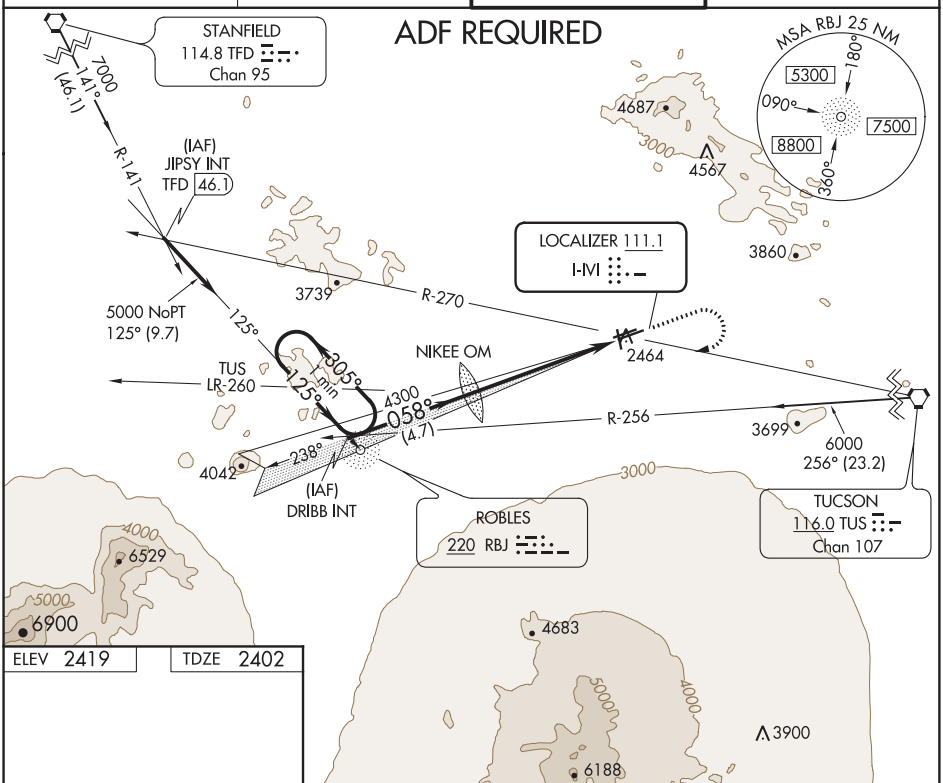
LOC I-IVI	APP CRS	Rwy ldg	5500
111.1	058°	TDZE	2402
		Apt Elev	2419

ILS or LOC RWY 6R
RYAN FIELD (RYN)

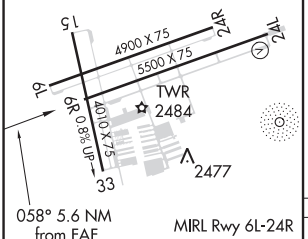
T A NA — Circling NA for Cat D north of Rwy 24R and east of Rwy 15.

MISSED APPROACH: Climb to 3000, then climbing right turn to 5000 via direct RBJ NDB and 305° bearing RBJ to DRIBB INT and hold.

AWOS-3	TUCSON APP CON	RYAN TOWER*	GND CON
133.35	128.5 273.6	125.8 (CTAF) L	118.2

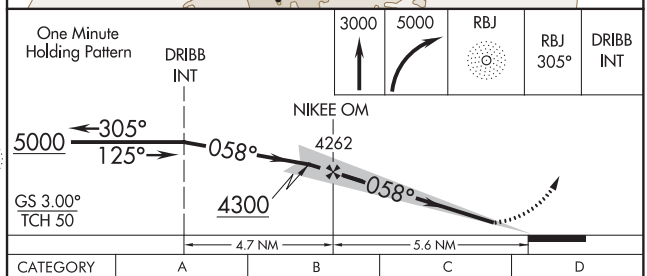


ELEV 2419 | TDZE 2402



MIRL Rwy 6L-24R
REIL Rwys 6R and 6L
MIRL Rwys 6R-24L and 15-33 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
S-ILS 6R	2652-1 250 (300-1)			
S-LOC 6R	2900-1 498 (500-1)		2900-1¼ 498 (500-1¼)	2900-1½ 498 (500-1½)
C CIRCLING	2960-1 541 (600-1)		3040-1¾ 621 (700-1¾)	3320-3 901 (1000-3)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA AL-6513 (FAA) 20142

RNAV (GPS) RWY 6R

RYAN FIELD (RYN)

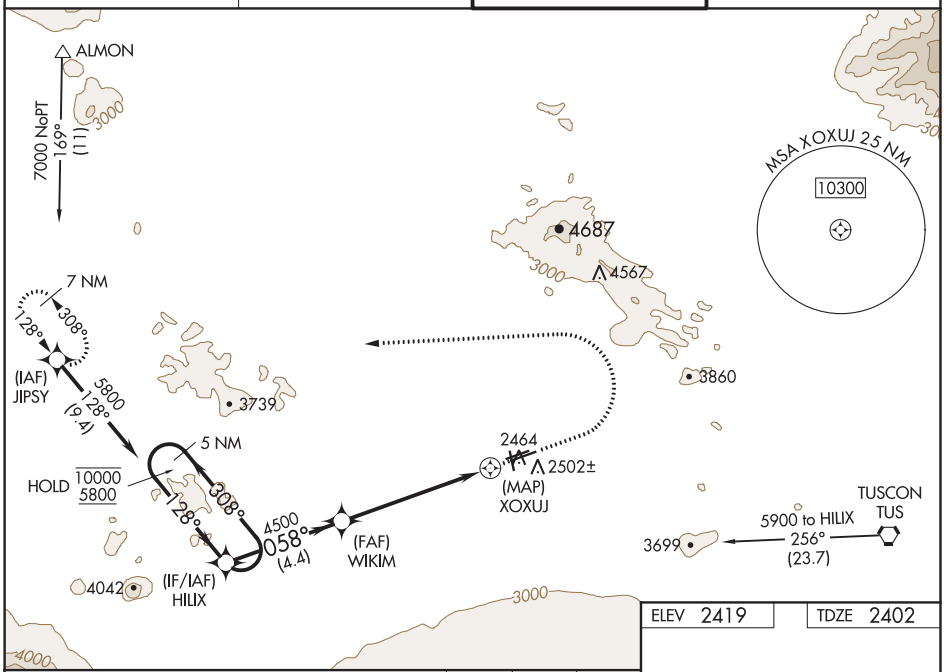
WAAS CH 86244 W06A	APP CRS 058°	Rwy ldg 5500 TDZE 2402 Apt Elev 2419

RNP APCH.

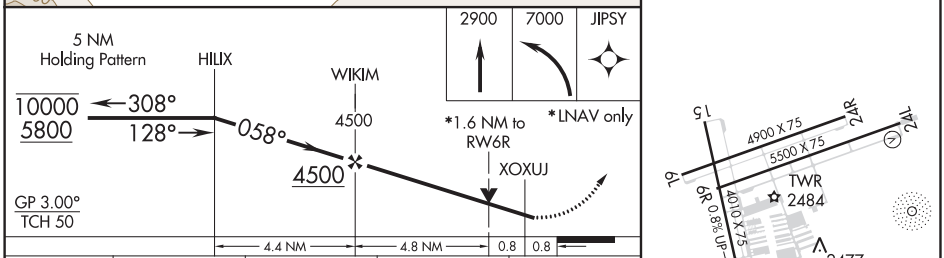
Circling NA for Cat D north of Rwy 24R and east of Rwy 15. Rwy 6R helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C.

MISSED APPROACH: Max 240K until JIPSY. Climb to 2900 then climbing left turn to 7000 direct JIPSY and hold. Continue climb-in-hold to 7000.

AWOS-3	TUSCON APP CON	RYAN TOWER*	GND CON
133.35	128.5 273.6	125.8 (CTAF) L	118.2



ELEV 2419 TDZE 2402



CATEGORY	A	B	C	D
LPV DA	2675-⅞ 273 (300-⅞)			
LNAV/VNAV DA	2756-1 354 (400-1)			
LNAV MDA	2960-1 558 (600-1)		2960-1⅝ 558 (600-1⅝)	
C CIRCLING	2960-1 541 (600-1)		3040-1¾ 621 (700-1¾)	3320-3 901 (1000-3)

MIRL Rwy 6L-24R
REIL Rwys 6R and 6L
MIRL Rwys 6R-24L and 15-33 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

NDB RYN	APP CRS	Rwy ldg / TDZE / Apt Elev
338	074°	5500 / 2402 / 2419

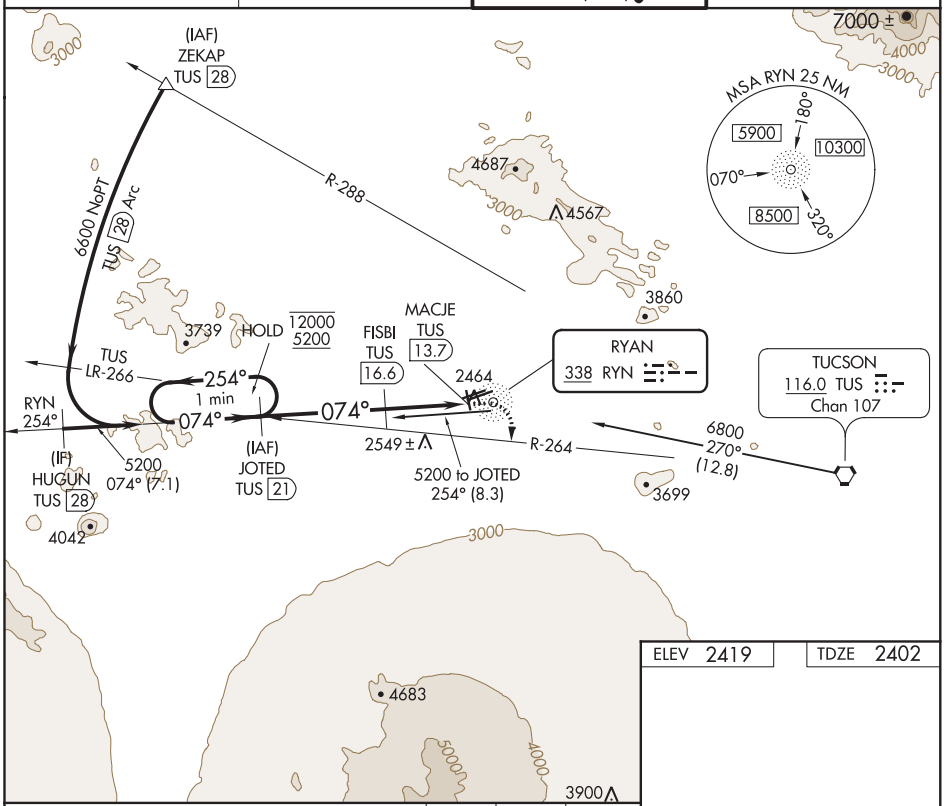
NDB RWY 6R
RYAN FIELD (RYN)

DME required.

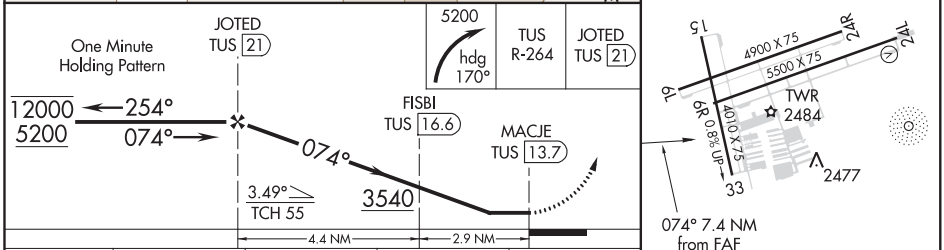
T / A NA — Circling NA for Cat D north of Rwy 24R and east of Rwy 15. Rwy 6R helicopter visibility reduction below ¾ SM NA. Simultaneous reception of RYN NDB and TUS DME required.

MISSED APPROACH: Climbing right turn to 5200 on heading 170° and TUS VORTAC R-264 to JOTED/TUS 21 DME and hold.

AWOS-3	TUCSON APP CON	RYAN TOWER ★	GND CON
133.35	128.5 273.6	125.8 (CTAF) L	118.2



ELEV 2419	TDZE 2402



CATEGORY	A	B	C	D
S-6R	2980-1 578 (600-1)		2980-1¾ 578 (600-1¾)	
C CIRCLING	2980-1 561 (600-1)		3040-1¾ 621 (700-1¾)	3320-3 901 (1000-3)

MIRL Rwy 6L-24R
REIL Rwys 6R and 6L
MIRL Rwys 6R-24L and 15-33 L

SW-4, 05 NOV 2020 to 31 DEC 2020

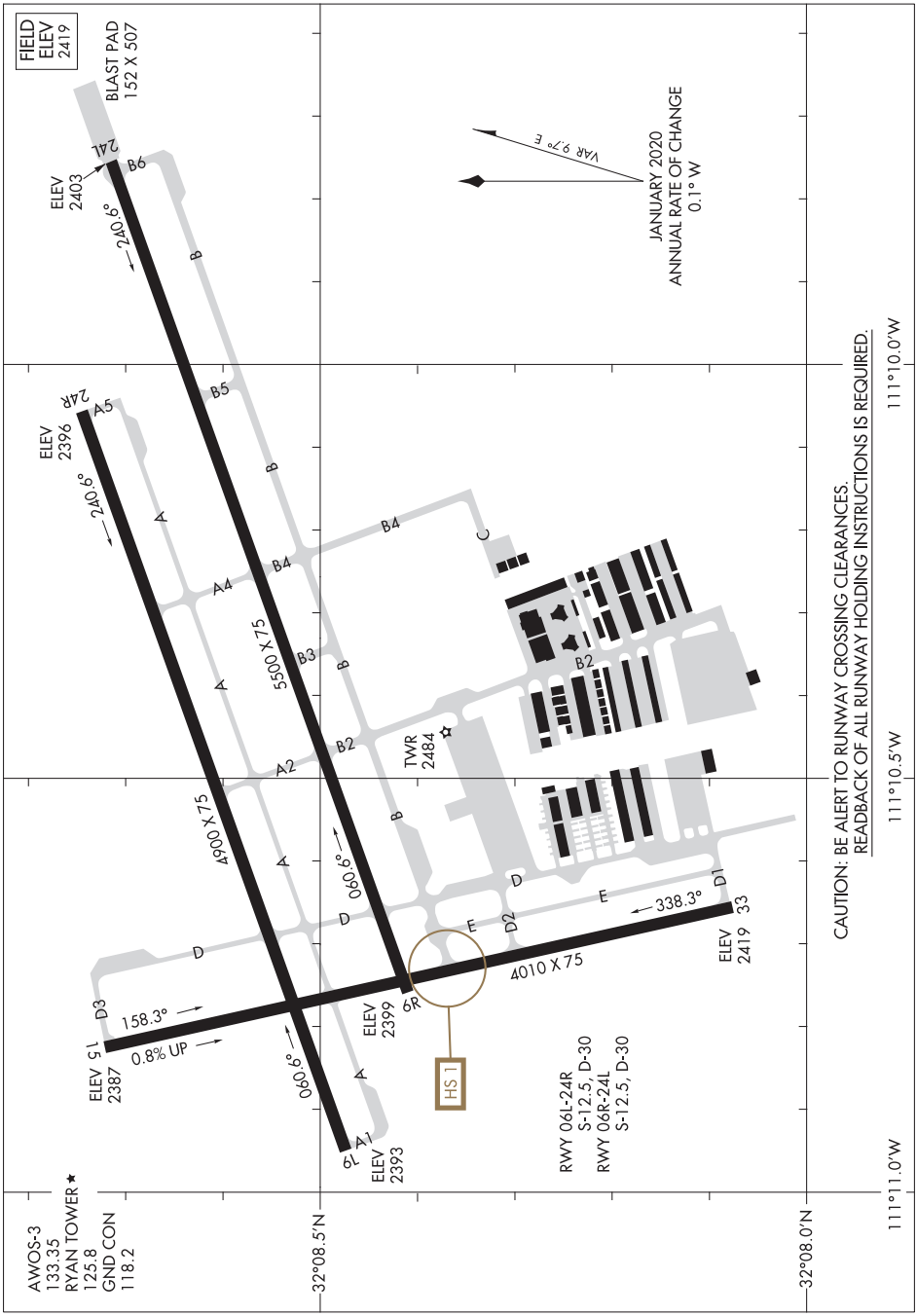
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-6513 (FAA)

RYAN FIELD (RYN)
TUCSON, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

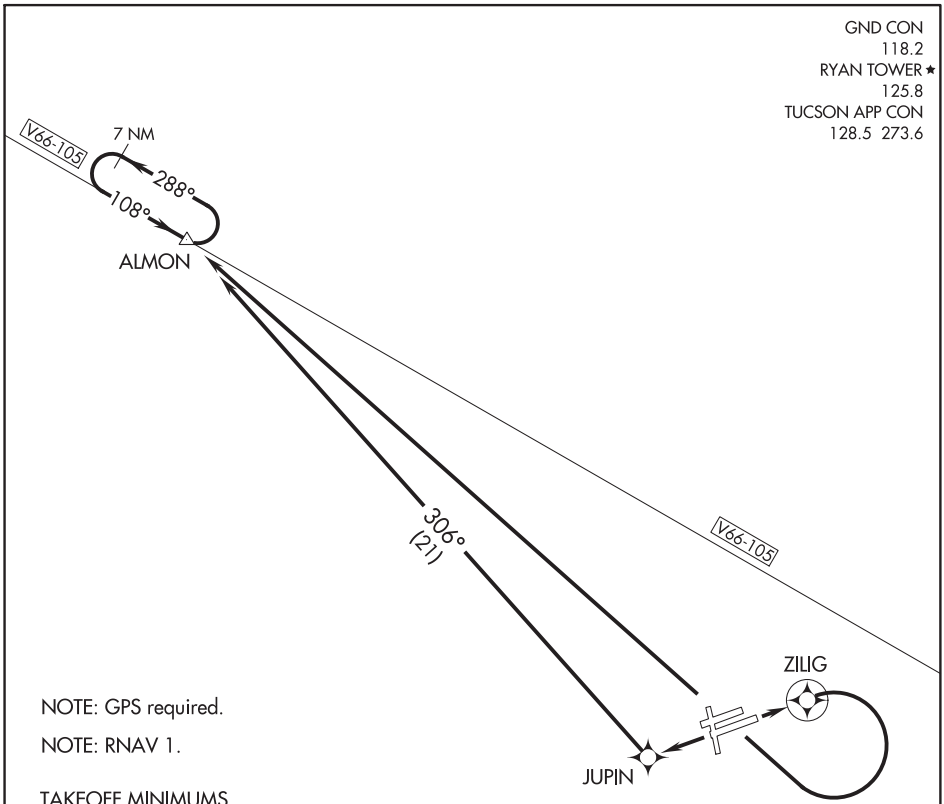
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
TUCSON, ARIZONA
RYAN FIELD (RYN)

ALMON ONE DEPARTURE (OBSTACLE) (RNAV)

SL-6513 (FAA)

RYAN FIELD (RYN)
TUCSON, ARIZONA



NOTE: GPS required.

NOTE: RNAV 1.

TAKEOFF MINIMUMS

Rwys 6L, 15, 24R, 33: NA, ATC.
Rwy 6R: Standard with a minimum climb of 309′ per NM to 4400.
Rwy 24L: Standard.

TAKEOFF OBSTACLE NOTES

Rwy 6R: Bushes beginning 331′ from DER, 293′ right of centerline, up to 28′ AGL/2428′ MSL.
Bush 166′ from DER, 366′ left of centerline, 8′ AGL/2408′ MSL.
Rwy 24L: Bush 282′ from DER, 462′ left of centerline, 10′ AGL/2410′ MSL.
Windsock 280′ from DER, 248′ right of centerline, 18′ AGL/2408′ MSL.
Tree 1401′ from DER, 724′ right of centerline, 44′ AGL/2434′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6R: Climb direct ZILIG then via depicted route to ALMON. Maintain 8000 or assigned altitude.

TAKEOFF RUNWAY 24L: Climb direct JUPIN then via depicted route to ALMON. Maintain 8000 or assigned altitude.

LOC/DME I-TUS	APP CRS	Rwy ldg	10996
111.7	123°	TDZE	2599
Chan 54		Apt Elev	2643

ILS or LOC RWY 11L
TUCSON INTL (TUS)

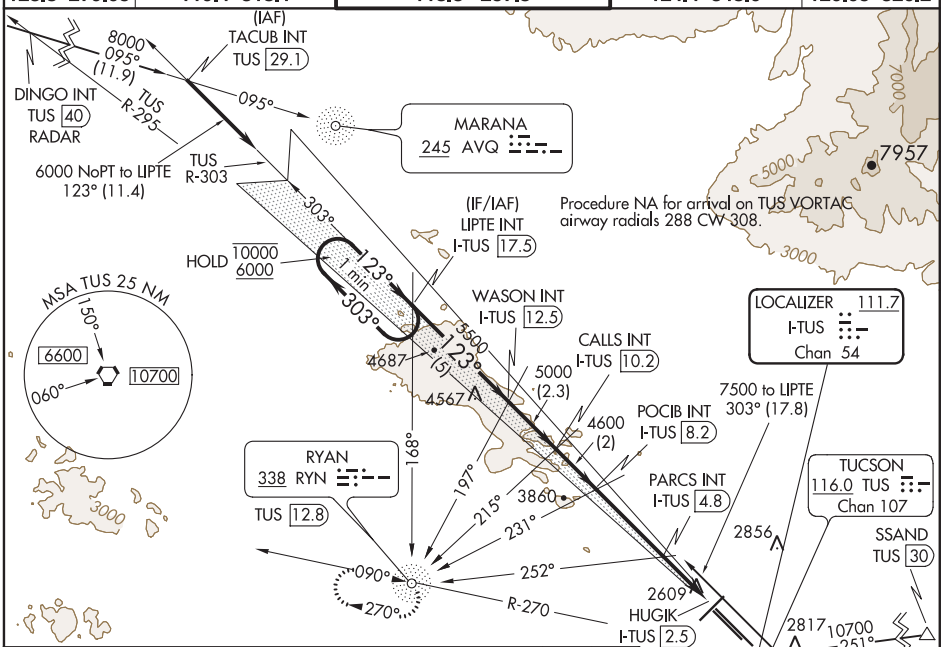
ADF or RADAR required for arrivals at DINGO.
ADF or DME required.
DME required for arrivals at SSAND.

For inop ALS, increase S-ILS Cat E visibility to RVR 4000, S-LOC 11L Cat E visibility to 2½ SM; PARCS FIX MINIMUMS: S-LOC 11L Cat C/D/E visibility to RVR 5500.

MALSR

MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 on heading 300° and TUS VORTAC R-270 to RYN NDB/TUS 12.8 DME and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



Use I-TUS DME when on the localizer course.

4000	6000	TUS	RYN
↑	hdg 300°	R-270	

One Minute Holding Pattern

10000 6000 ← 303° 123° → 123°

LIPTE INT I-TUS 17.5 — WASON INT I-TUS 12.5 — CALLS INT I-TUS 10.2 — POCIB INT I-TUS 8.2 — PARCS INT I-TUS 4.8 — HUGIK I-TUS 2.5

5500 5000 4600 *3480 4600

*LOC only

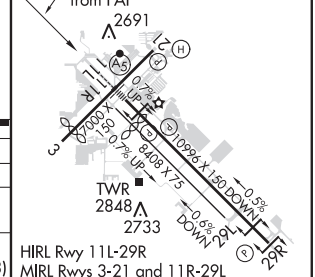
GS 3.00°
TCH 55

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 73).

5 NM — 2.3 NM — 2 NM — 3.4 NM — 2.3 NM — 0.4

ELEV 2643 | D | TDZE 2599

123° 6.1 NM from FAF



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

CATEGORY	A	B	C	D	E
S-ILS 11L	2800/24 201 (200-½)				
S-LOC 11L	3480/40 881 (900-¾)		3480-2 881 (900-2)		
CIRCLING	3480-1¼ 837 (900-1¼)		3480-2½ 837 (900-2½)	3480-2¾ 837 (900-2¾)	3800-3 1157(1200-3)
PARCS FIX MINIMUMS					
S-LOC 11L	2960/24 361 (400-½)		2960/40 361 (400-¾)		
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3800-3 1157(1200-3)

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10996
123°	TDZE	2599
	Apt Elev	2643

RNAV (RNP) Y RWY 11L
TUCSON INTL (TUS)

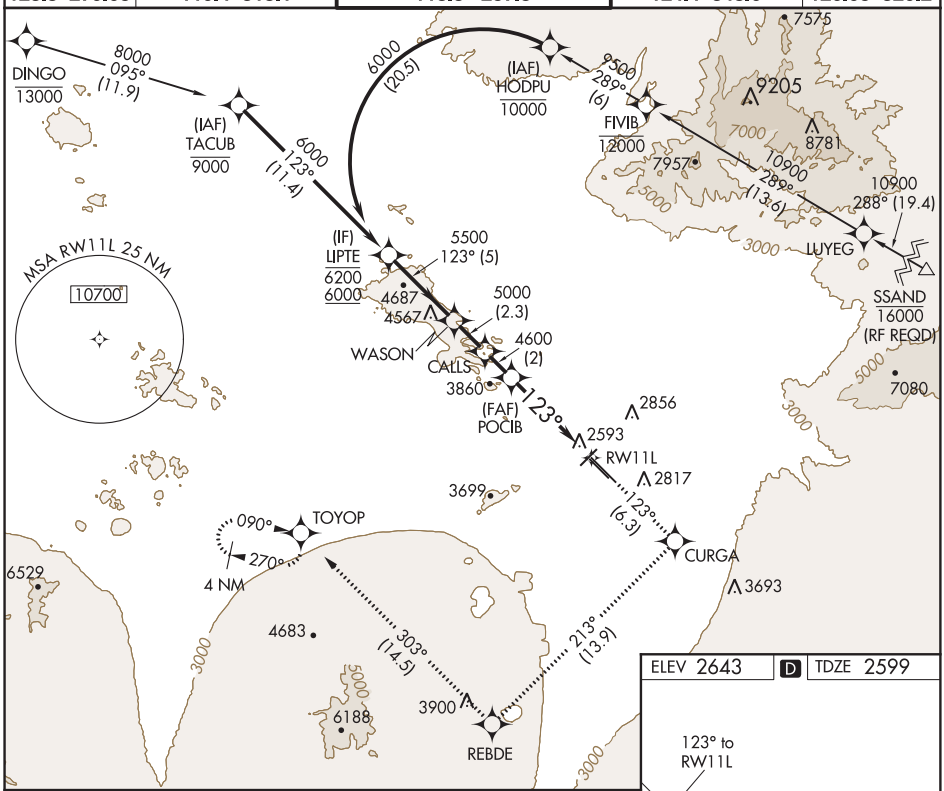
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -3°C or above 52°C. For inoperative MALSR, increase RNP 0.30 visibility to RVR 6000 all Cats. GPS required.

MALSR

MISSED APPROACH: Climb to 6000 via 123° track to CURGA, 213° track to REBDE, 303° track to TOYOP and hold.

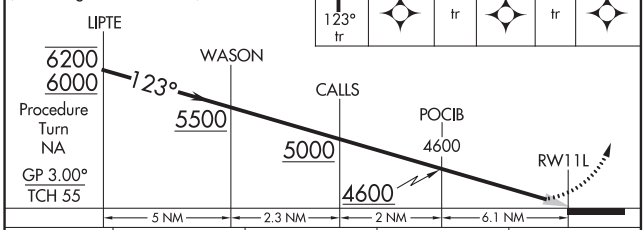
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 D TDZE 2599

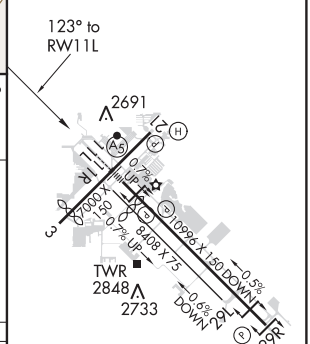
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 73).

6000	CURGA	213°	REBDE	303°	TOYOP
123° tr		tr		tr	



CATEGORY	A	B	C	D
RNP 0.30 DA	2947/40 348 (400-¾)			

AUTHORIZATION REQUIRED



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	10996
303°	TDZE	2643
	Apt Elev	2643

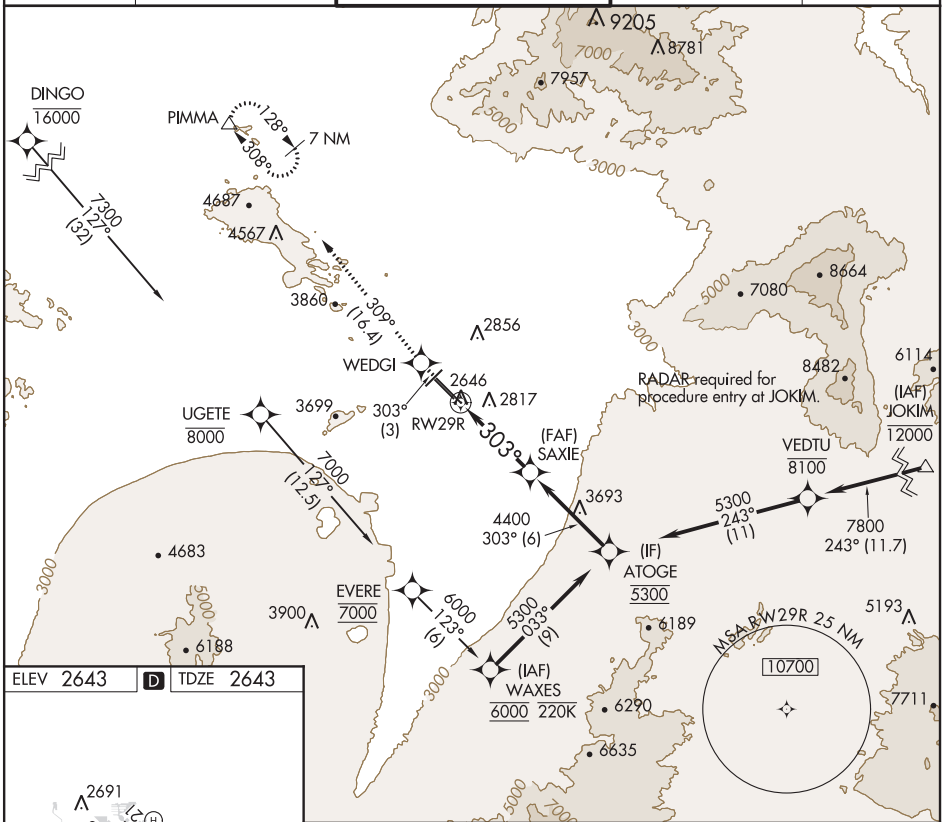
RNAV (RNP) Y RWY 29R
TUCSON INTL (TUS)

T
A NA

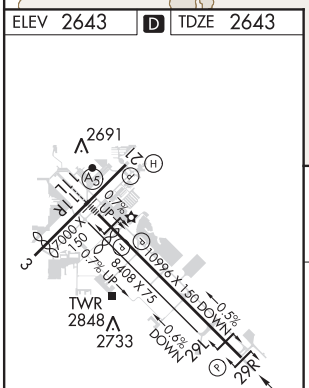
When VGSI inop, procedure NA at night. GPS required. For uncompensated Baro-VNAV systems, procedure NA below -5°C (23°F) or above 43°C (110°F). Rwy 29R helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 6500 on 303° track to WEDGI 309° track to PIMMA and hold.

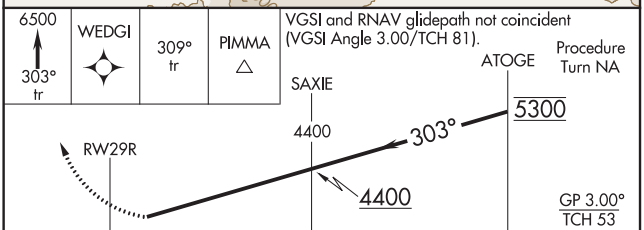
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643	D	TDZE 2643



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R



CATEGORY	A	B	C	D
RNP 0.30 DA	3137-1⅝ 494 (500-1⅝)			

AUTHORIZATION REQUIRED

SW-4, 05 NOV 2020 to 31 DEC 2020

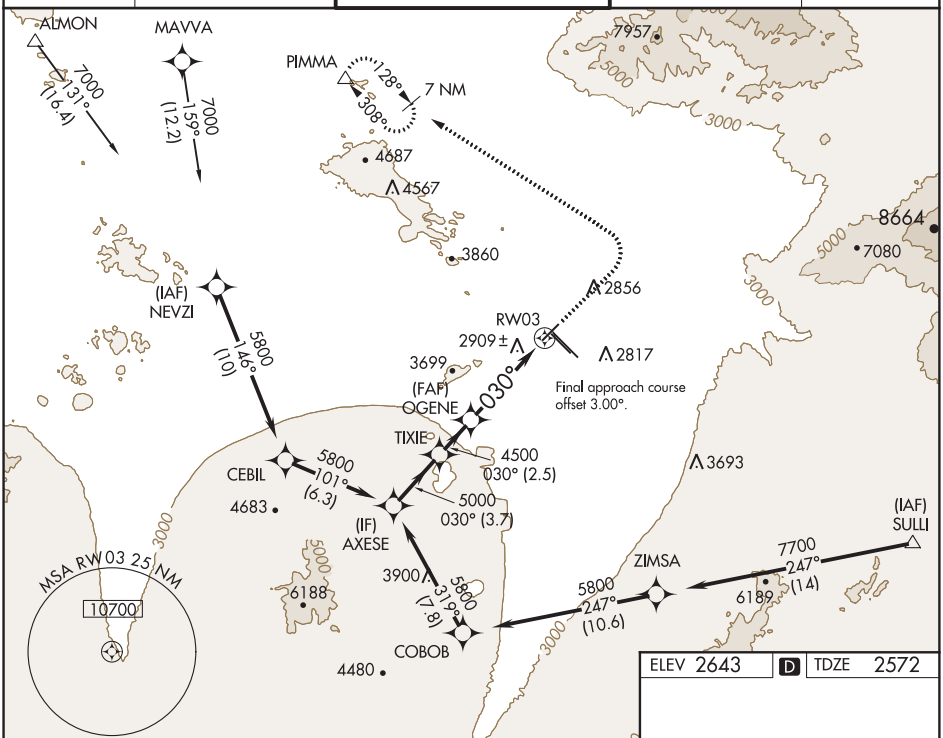
APP CRS	Rwy ldg	6150
030°	TDZE	2572
	Apt Elev	2643

RNAV (GPS) RWY 3
TUCSON INTL (TUS)

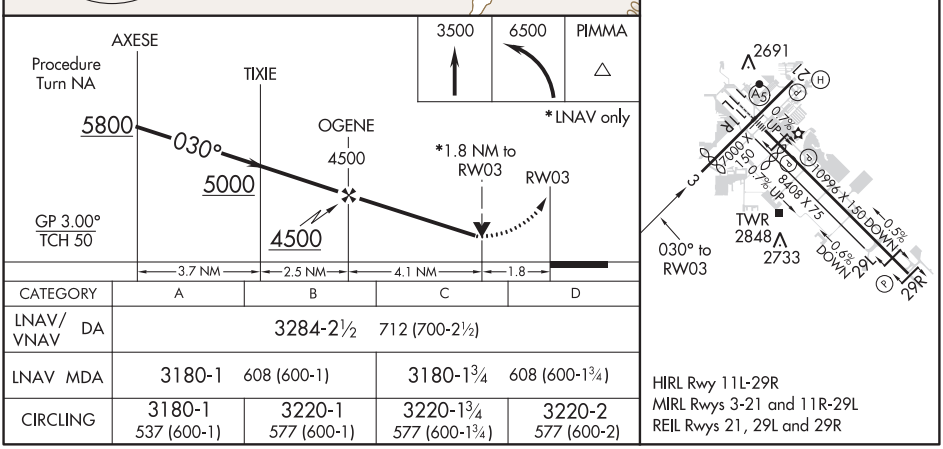
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 27°C (80°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3500 then climbing left turn to 6500 direct PIMMA and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643	D	TDZE 2572



CATEGORY	A	B	C	D
LNAV/VNAV DA	3284-2½ 712 (700-2½)			
LNAV MDA	3180-1 608 (600-1)		3180-1¾ 608 (600-1¾)	
CIRCLING	3180-1 537 (600-1)	3220-1 577 (600-1)	3220-1¾ 577 (600-1¾)	3220-2 577 (600-2)

HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA | AL-430 (FAA) | 20086

APP CRS	Rwy ldg	6998
123°	TDZE	2605
	Apt Elev	2643

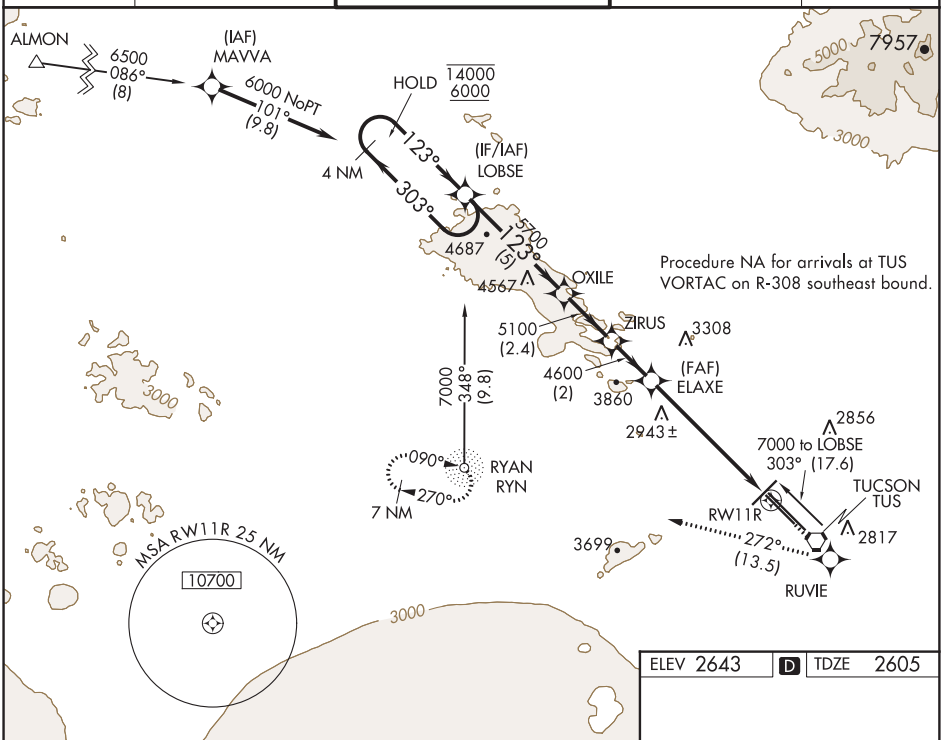
RNAV (GPS) RWY 11R
TUCSON INTL (TUS)

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C or above 54°C.

MISSED APPROACH: Climb to 6000 direct RUVIE and on track 272° to RYN NDB and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2

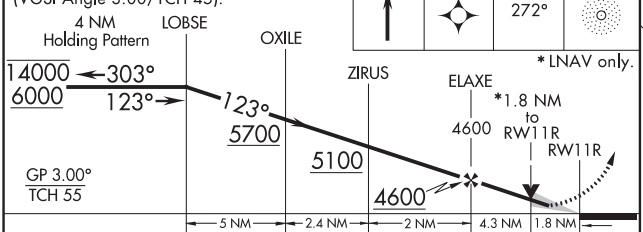


ELEV 2643 | D | TDZE 2605

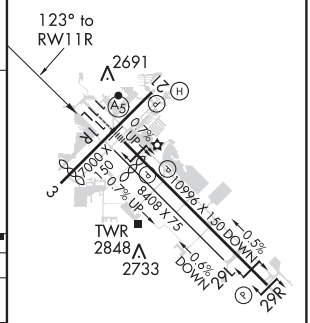
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 45).

6000	RUVIE	tr 272°	RYN

* LNAV only.



CATEGORY	A	B	C	D
LNAV/VNAV DA	2965-1¼ 360 (400-1¼)			
LNAV MDA	3200-1 595 (600-1)		3200-1¾ 595 (600-1¾)	
CIRCLING	3200-1 557 (600-1)	3220-1 577 (600-1)	3220-1¾ 577 (600-1¾)	3220-2 577 (600-2)



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

APP CRS	Rwy ldg	6000
213°	TDZE	2572
	Apt Elev	2643

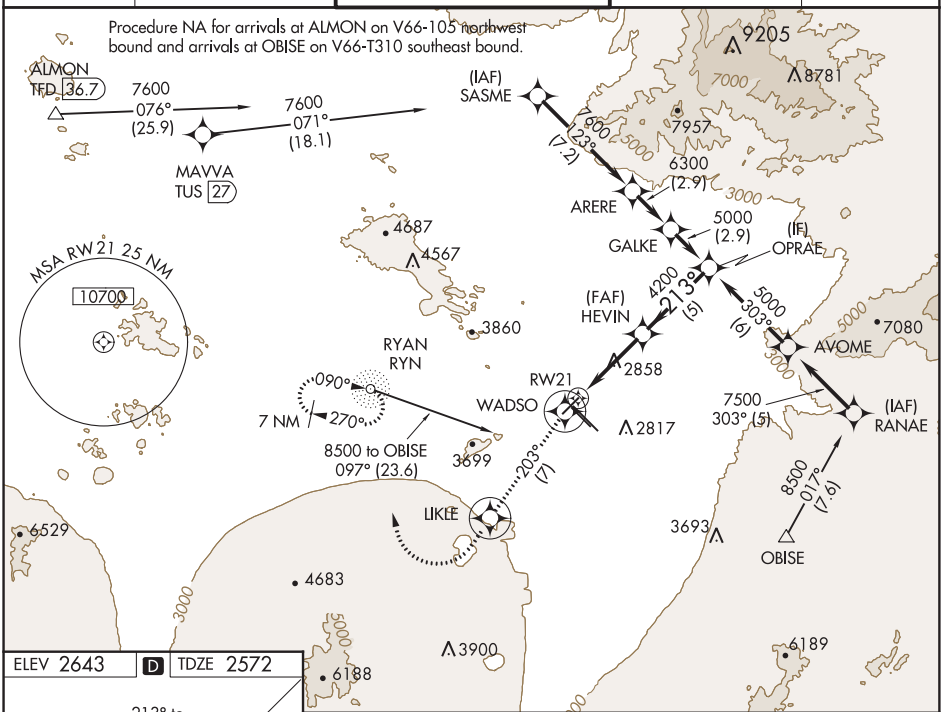
RNAV (GPS) RWY 21
TUCSON INTL (TUS)

RNP APCH.

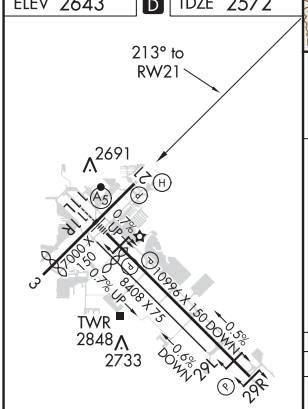
Rwy 21 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C or above 54°C.

MISSED APPROACH: Climb to 6000 on course 213° to WADSO and track 203° to LIKLE and right turn direct RYN NDB and hold.

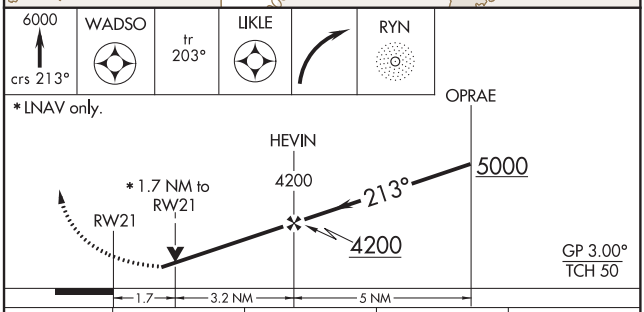
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 D TDZE 2572



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R



CATEGORY	A	B	C	D
LNAV/VNAV DA	3145-2 573 (600-2)			
LNAV MDA	3160-1 588 (600-1)		3160-1½ 588 (600-1½)	3160-1¾ 588 (600-1¾)
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA | AL-430 (FAA) | 20086

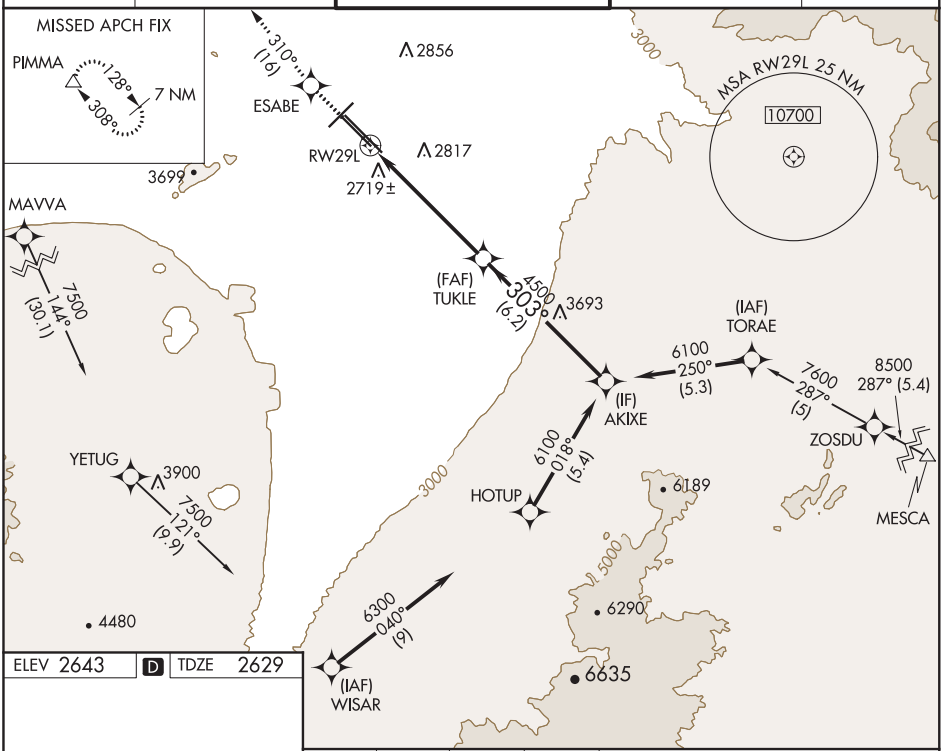
APP CRS		
303°	Rwy ldg	6998
	TDZE	2629
	Apt Elev	2643

RNAV (GPS) RWY 29L
TUCSON INTL (TUS)

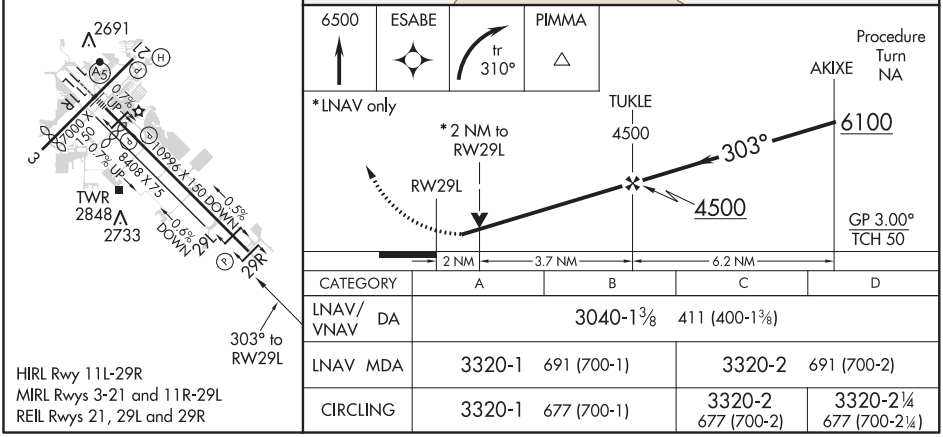
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 27°C (80°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 6500 direct ESABE then climbing right turn on track 310° to PIMMA and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 | D | TDZE 2629



CATEGORY	A	B	C	D
LNAV/VNAV DA	3040-1⅜ 411 (400-1⅜)			
LNAV MDA	3320-1 691 (700-1)		3320-2 691 (700-2)	
CIRCLING	3320-1 677 (700-1)		3320-2 677 (700-2)	3320-2¼ 677 (700-2¼)

HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WAAS CH 82701 W11A	APP CRS 123°	Rwy ldg 10996 TDZE 2599 Apt Elev 2643

RNAV (GPS) Z RWY 11L
TUCSON INTL (TUS)

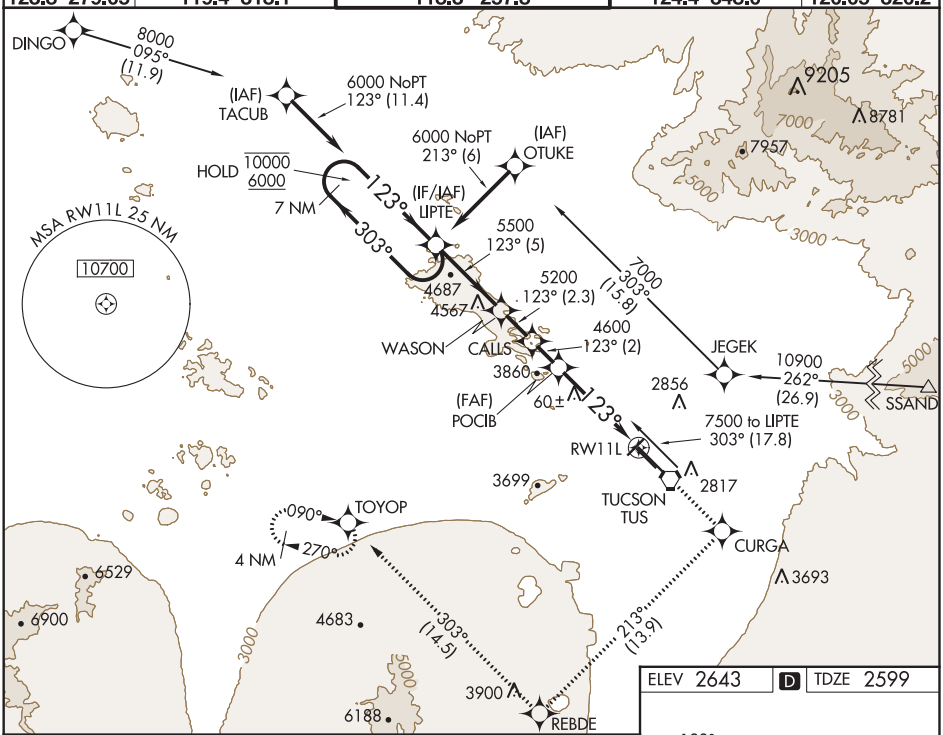
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 52°C. For inoperative ALS, increase LNAV/VNAV all Cats to RVR 5500 and increase LNAV Cat C, D and E visibilities to 2 SM.

MALSR

MISSED APPROACH: Climb to 6000 (Cat E 8000) direct CURGA and on 213° track to REBDE and on 303° track to TOYOP and hold.

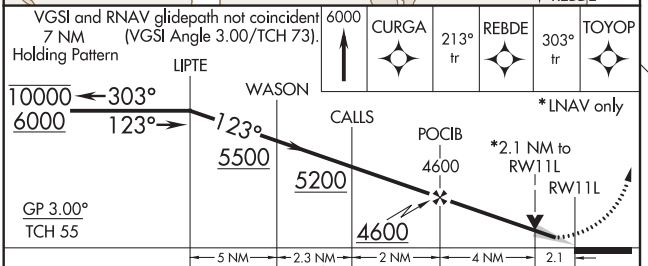
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2

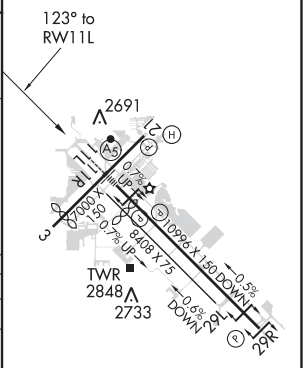


ELEV 2643 D TDZE 2599

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 73).

7 NM Holding Pattern





CATEGORY	A	B	C	D	E
LPV DA	2849/24 250 (300-½)				
LNAV/VNAV DA	2967/40 368 (400-¾)				
LNAV MDA	3320/24 721 (700-½)		3320-1⅝ 721 (700-1⅝)		3320-1¾ 721 (700-1¾)
CIRCLING	3320-1 677 (700-1)		3320-2 677 (700-2)	3320-2¼ 677 (700-2¼)	3800-3 1157 (1200-3)

HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON, ARIZONA | AL-430 (FAA) | 20086

WAAS CH 82203 W29A	APP CRS 303°	Rwy ldg 10996 TDZE 2643 Apt Elev 2643

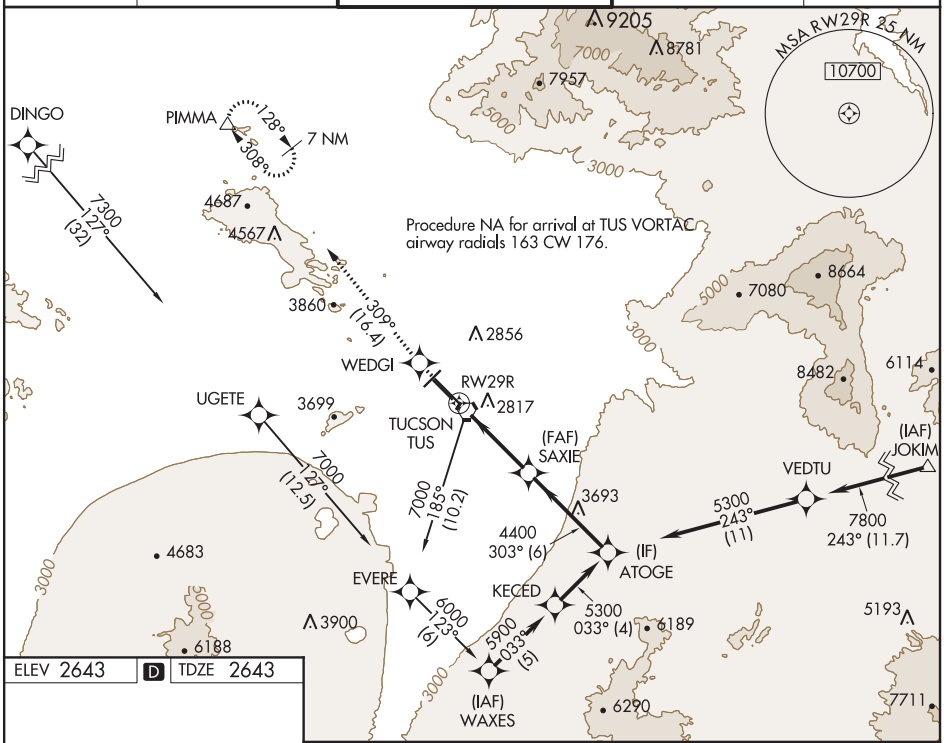
RNAV (GPS) Z RWY 29R
TUCSON INTL (TUS)

RNP APCH.

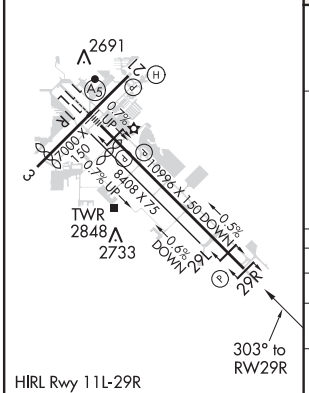
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 52°C.

MISSED APPROACH: Climb to 6800 direct WEDGI and track 309° to PIMMA and hold.

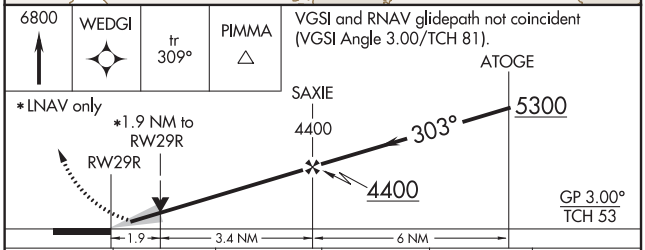
ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 | D | TDZE 2643



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R



CATEGORY		A	B	C	D	E
LPV	DA	2929-1 286 (300-1)				
LNAV/VNAV	DA	3106-1½ 463 (500-1½)				3106-1¾ 463 (500-1¾)
LNAV	MDA	3300-1 657 (700-1)		3300-1⅞ 657 (700-1⅞)	3300-2 657 (700-2)	3300-2¼ 657 (700-2¼)
CIRCLING		3300-1 657 (700-1)		3300-1⅞ 657 (700-1⅞)	3300-2 657 (700-2)	3800-3 1157 (1200-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

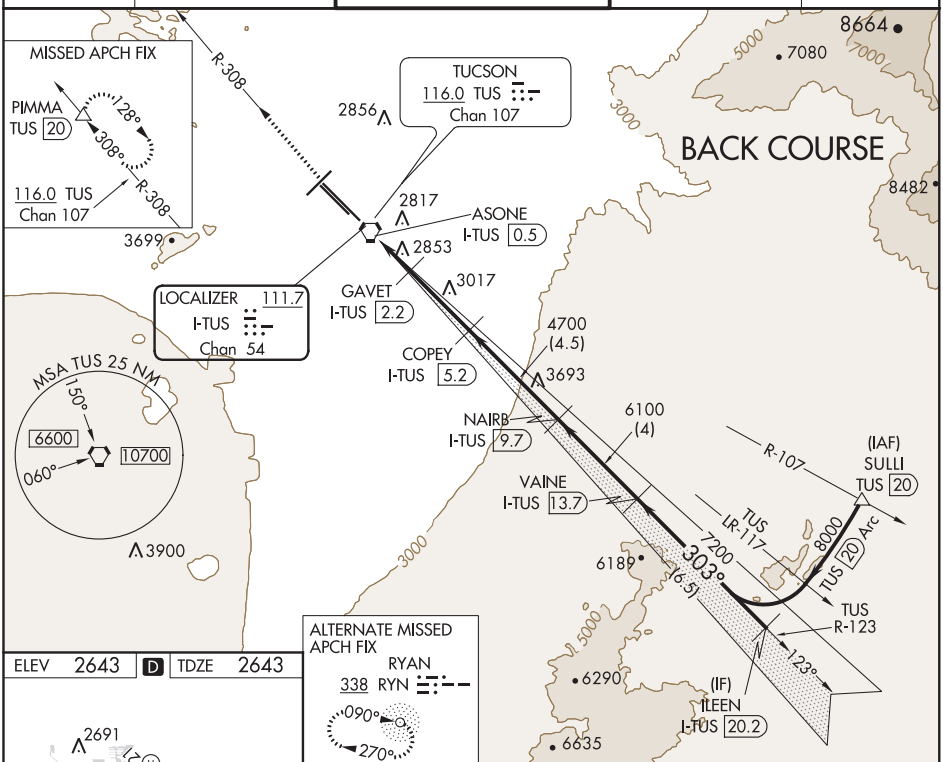
LOC/DME I-TUS	APP CRS	Rwy ldg	10996
111.7	303°	TDZE	2643
Chan 54		Apt Elev	2643

LOC BC RWY 29R
TUCSON INTL (TUS)

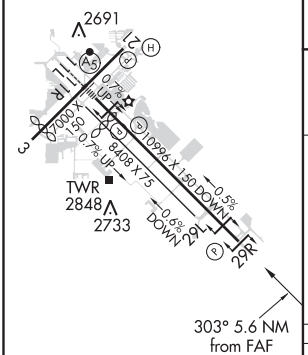
DME required for procedure entry. DME required.

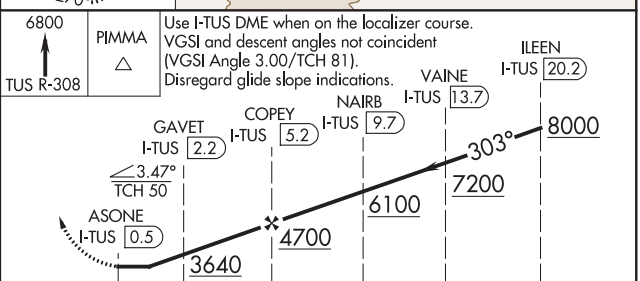
MISSED APPROACH: Climb to 6800 on TUS VORTAC R-308 to PIMMA/TUS VORTAC 20 DME and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 D TDZE 2643





CATEGORY	A	B	C	D	E
S-29R	3140-1 497 (500-1)		3140-1⅜ 497 (500-1⅜)		
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3800-3 1157 (1200-3)

HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC TUS	APP CRS	Rwy ldg	10996
116.0	123°	TDZE	2599
Chan 107		Apt Elev	2643

VOR or TACAN RWY 11L

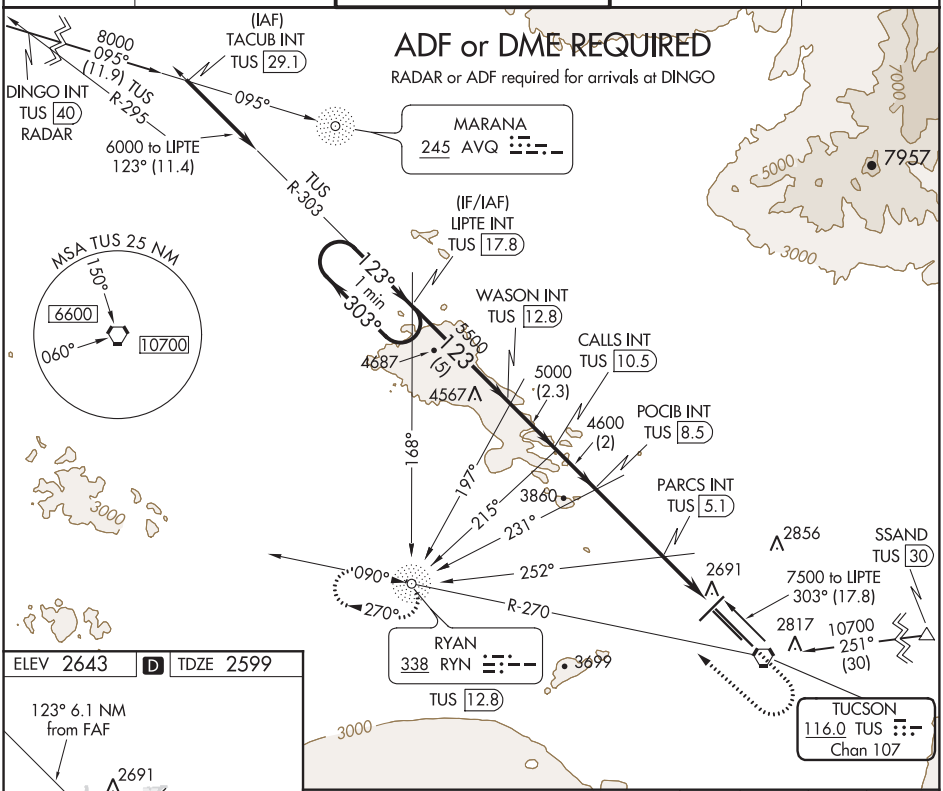
TUCSON INTL (TUS)

ADF or DME required.
For inoperative ALS, increase Cat E visibility to 1¼ SM.

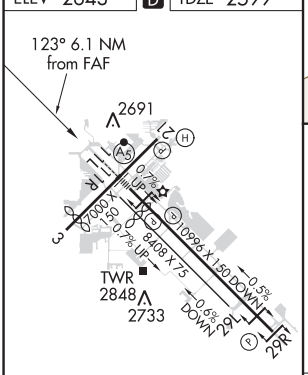
MALSR

MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 (Cat. E 8000) on heading 300° and TUS VORTAC R-270 to RYN NDB/TUS 12.8 DME and hold.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2

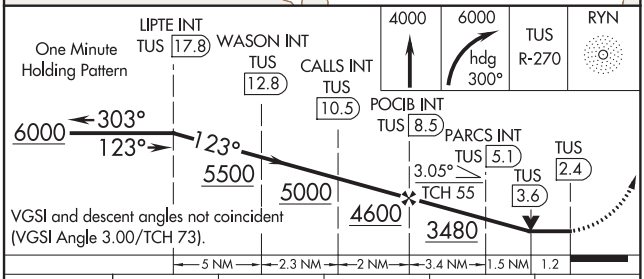


ELEV 2643 D TDZE 2599



HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02



CATEGORY	A	B	C	D	E
S-11L	3020/24 421 (500-½)		3020/40 421 (500-¾)		
CIRCLING	3160-1 517 (500-1)		3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3800-3 1157 (1200-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

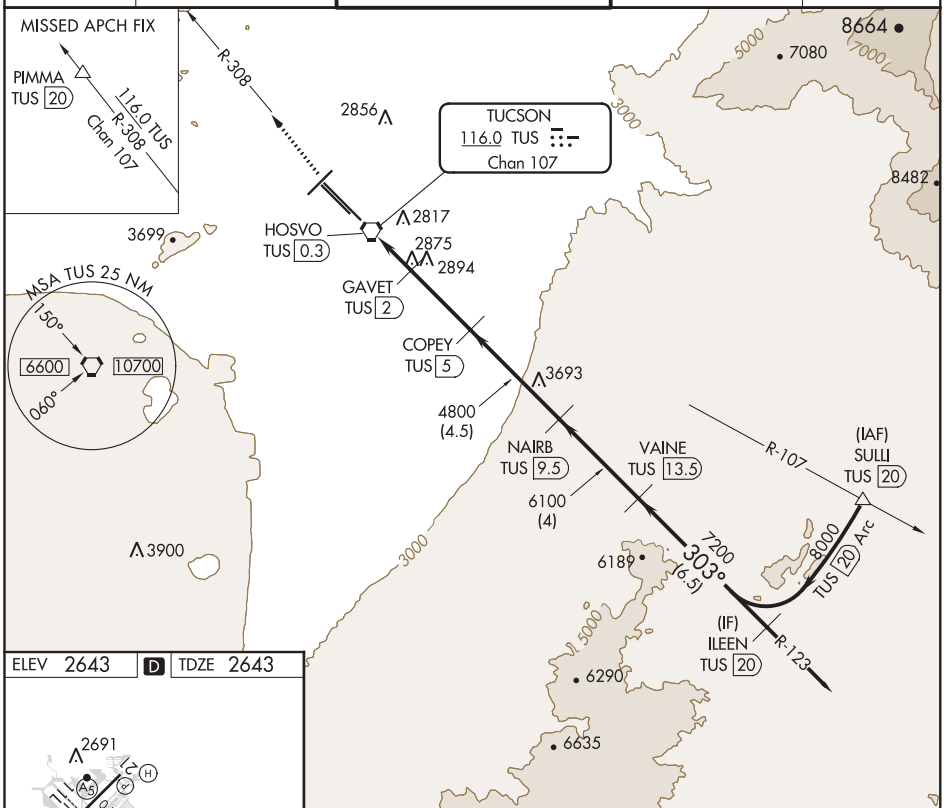
VORTAC TUS 116.0 Chan 107	APP CRS 303°	Rwy ldg 10996 TDZE 2643 Apt Elev 2643

VOR or TACAN RWY 29R
TUCSON INTL (TUS)

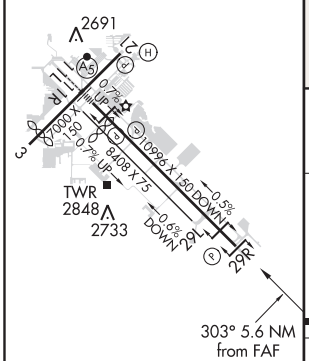
DME required.

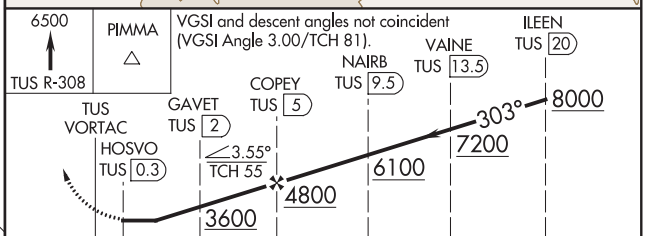
MISSED APPROACH: Climb to 6500 to PIMMA/TUS 20 DME on TUS R-308.

ATIS	TUCSON APP CON	TUCSON TOWER	GND CON	CLNC DEL
123.8 279.65	119.4 318.1	118.3 257.8	124.4 348.6	126.65 326.2



ELEV 2643 D TDZE 2643





CATEGORY	A	B	C	D	E
S-29R	3160-1 517 (600-1)		3160-1⅜ 517 (600-1⅜)	3160-1½ 517 (600-1½)	3160-1¾ 517 (600-1¾)
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3800-3 1157(1200-3)

HIRL Rwy 11L-29R
MIRL Rwys 3-21 and 11R-29L
REIL Rwys 21, 29L and 29R

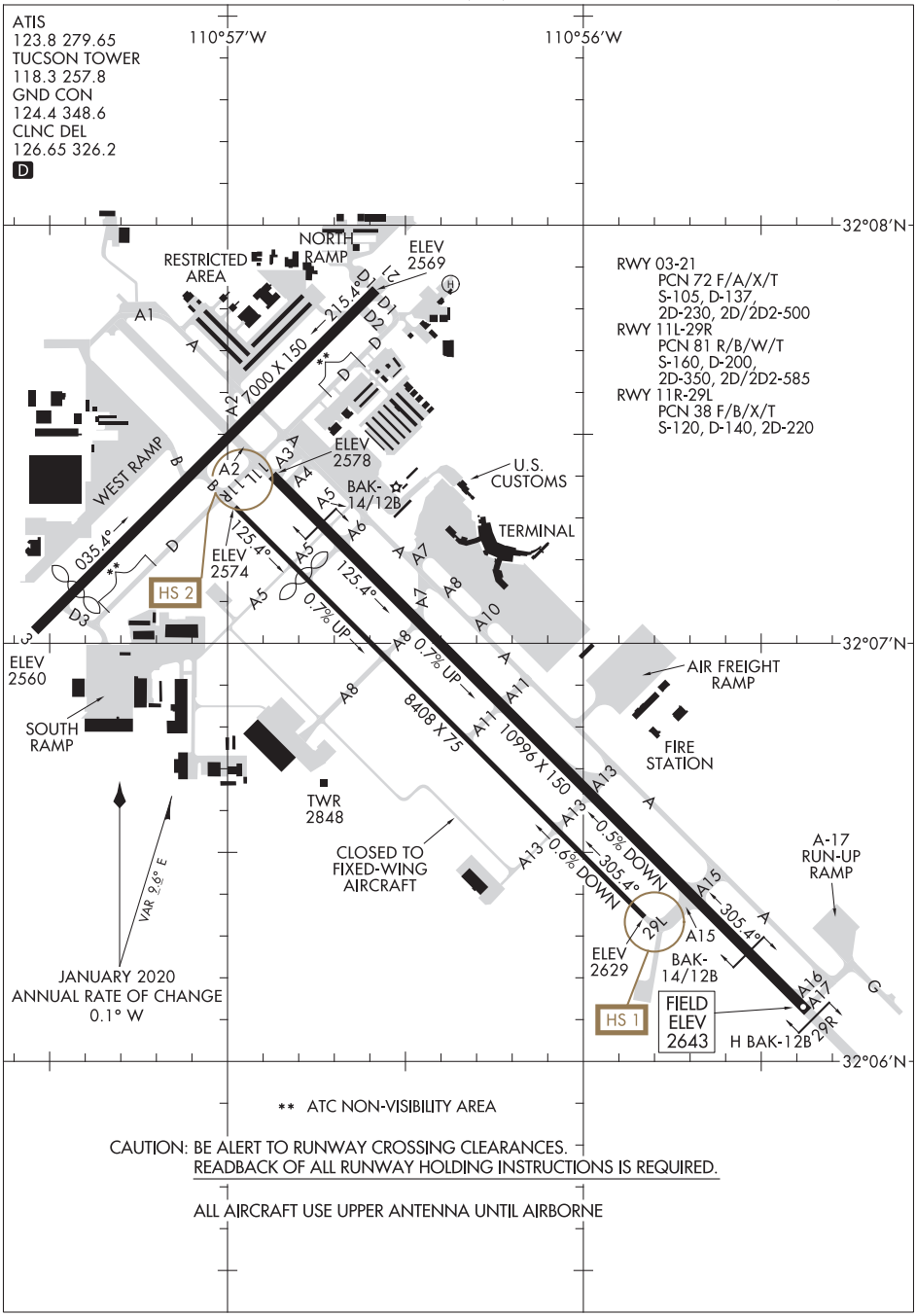
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



** ATC NON-VISIBILITY AREA

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

ALL AIRCRAFT USE UPPER ANTENNA UNTIL AIRBORNE

SW-4, 05 NOV 2020 to 31 DEC 2020

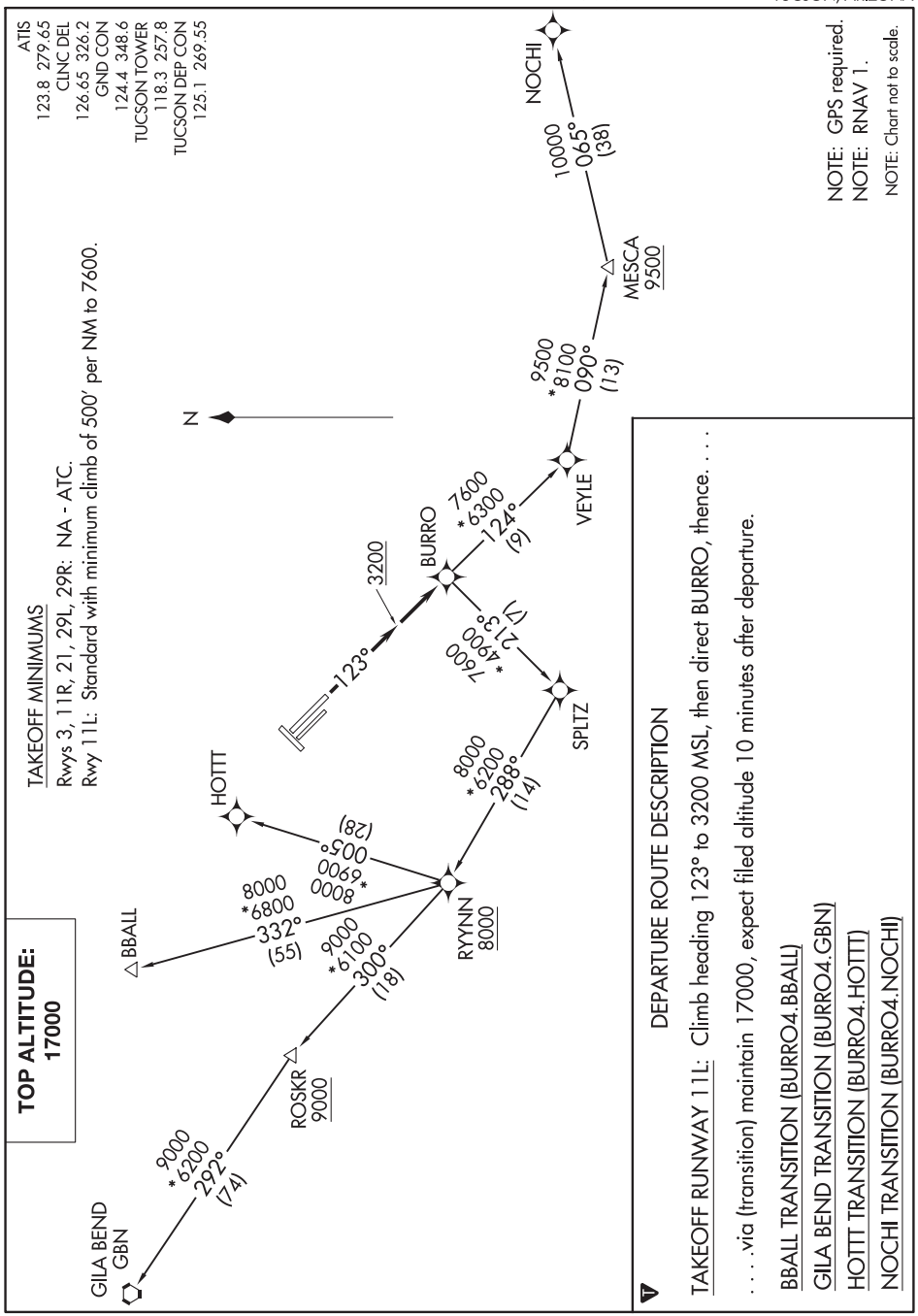
SW-4, 05 NOV 2020 to 31 DEC 2020

AIRPORT DIAGRAM
20086
TUCSON, ARIZONA
TUCSON INTL (TUS)

BURRO FOUR DEPARTURE (RNAV)

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

BURRO FOUR DEPARTURE (RNAV)

TUCSON, ARIZONA
TUCSON INTL (TUS)

(TUS8.TUS) 18312

TUCSON EIGHT DEPARTURE

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

ATIS 123.8 279.65
CLNC DEL 126.65 326.2
GND CON 124.4 348.6
TUCSON TOWER 118.3 257.8
TUCSON DEP CON 125.1 269.55

TAKEOFF MINUMUMS

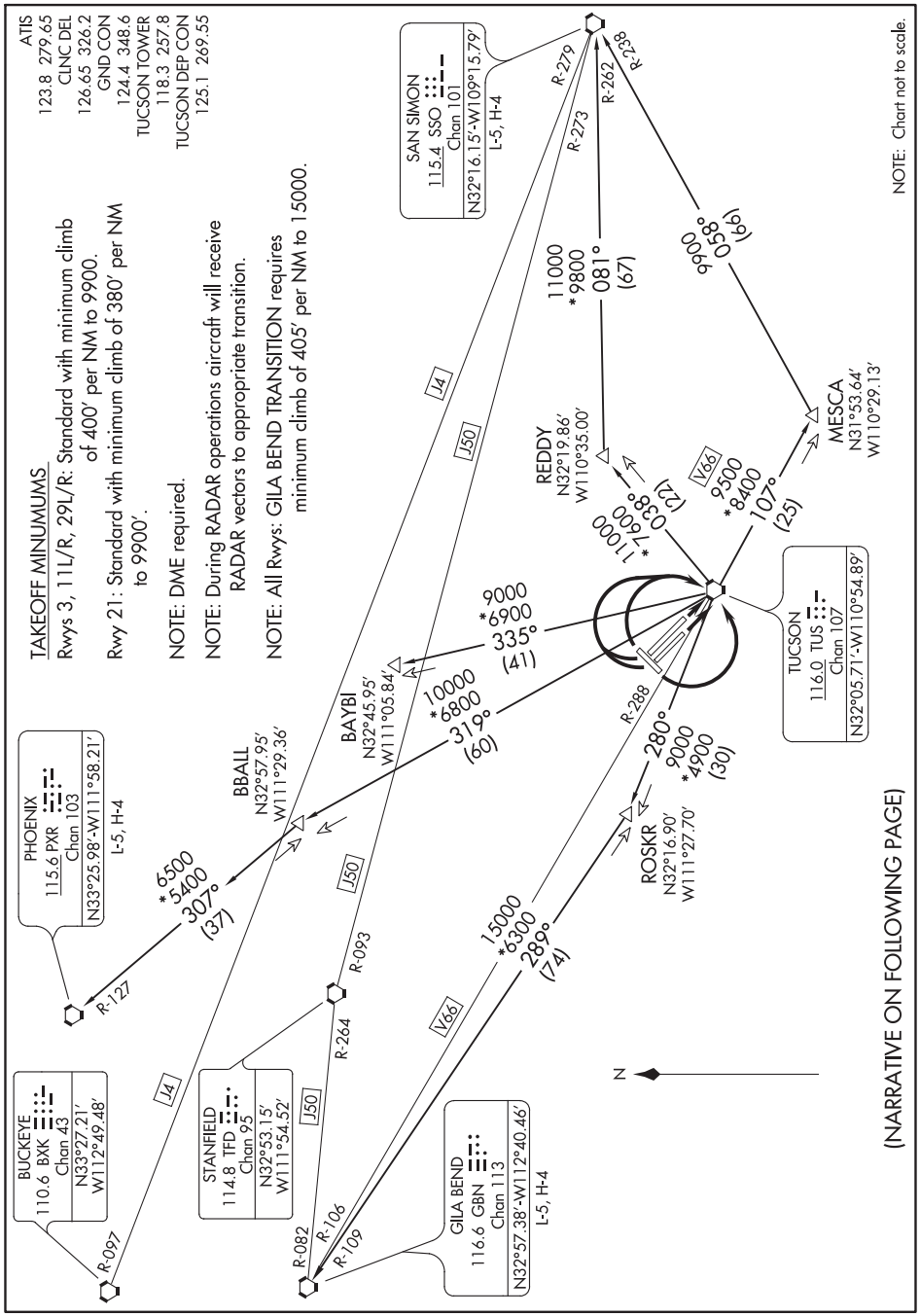
Rwys 3, 11L/R, 29L/R: Standard with minimum climb of 400′ per NM to 9900.

Rwy 21: Standard with minimum climb of 380′ per NM to 9900′.

NOTE: DME required.

NOTE: During RADAR operations aircraft will receive RADAR vectors to appropriate transition.

NOTE: All Rwys: GILA BEND TRANSITION requires minimum climb of 405′ per NM to 15000.



(NARRATIVE ON FOLLOWING PAGE)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

TUCSON EIGHT DEPARTURE

TUCSON, ARIZONA
TUCSON INTL (TUS)

(TUS8.TUS) 20SEP12

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 11L/R: Climb direct TUS VORTAC. Thence. . . .
TAKEOFF RUNWAYS 3, 29L/R: Climbing right turn direct TUS VORTAC. Thence. . . .
TAKEOFF RUNWAY 21: Climbing left turn direct TUS VORTAC. Thence. . . .

. . . . via assigned transition. Maintain 17000, expect clearance to filed altitude 10 minutes after departure.

BAYBI TRANSITION (TUS8.BAYBI): From over TUS VORTAC via TUS R-335 to BAYBI.

BBALL TRANSITION (TUS8.BBALL): From over TUS VORTAC via TUS R-319 to BBALL.

GILA BEND TRANSITION (TUS8.GBN): From over TUS VORTAC via TUS R-280 and GBN R-109 to GBN VORTAC.

MESCA TRANSITION (TUS8.MESCA): From over TUS VORTAC via TUS R-107 and SSO R-238 to SSO VORTAC.

PHOENIX TRANSITION (TUS8.PXR): From over TUS VORTAC via TUS R-319 and PXR R-127 to PXR VORTAC.

REDDY TRANSITION (TUS8.REDDY): From over TUS VORTAC via TUS R-038 and SSO R-262 to SSO VORTAC.

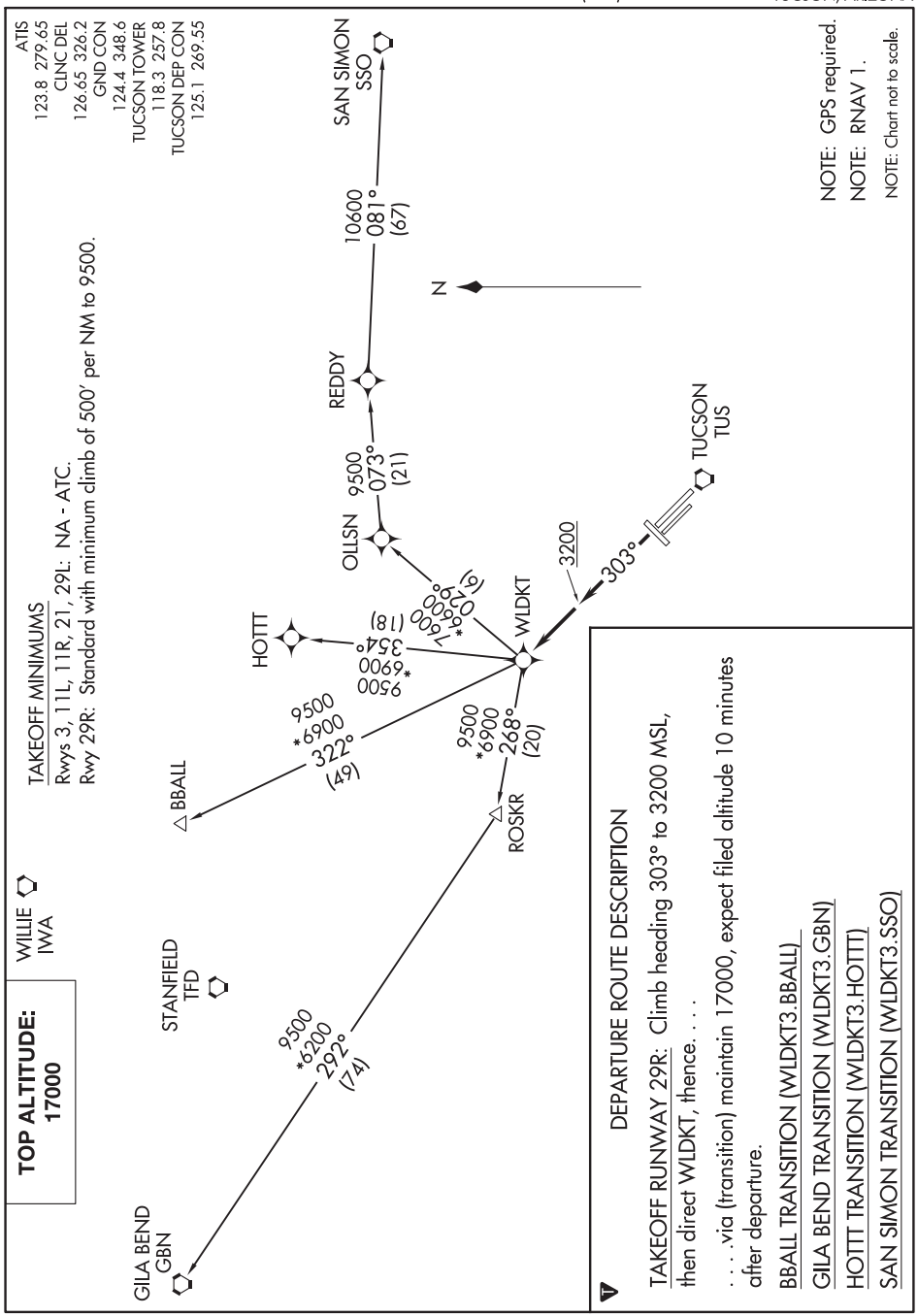
SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

(WLDKT3.WLDKT) 18312

WLDKT THREE DEPARTURE (RNAV)

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WLDKT THREE DEPARTURE (RNAV)

TUCSON, ARIZONA
TUCSON INTL (TUS)

(WLDKT3.WLDKT) 21JUL16

RNAV (GPS) Y RWY 35
VERNAL RGNL (VEL)

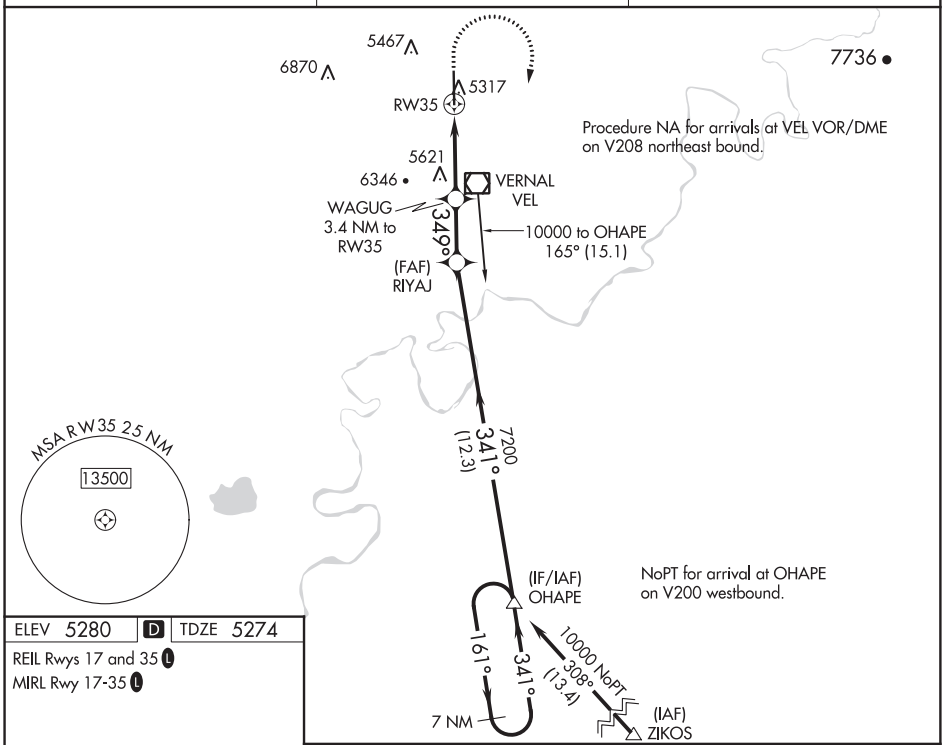
APP CRS	Rwy ldg	7000
349°	TDZE	5274
	Apt Elev	5280

Circling NA west of Rwy 17-35. DME/DME RNP-0.3 NA. VDP NA when using Roosevelt altimeter setting. Rwy 35 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Roosevelt altimeter setting and increase MDA 80 feet and increase *LNAV Cat B visibility ¼ SM and Cat C/D visibility ½ SM.

-27°C

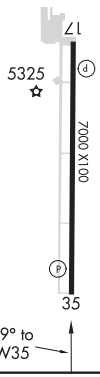
MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct OHAPE and hold.
*Missed approach requires minimum climb of 300 feet per NM to 7500.

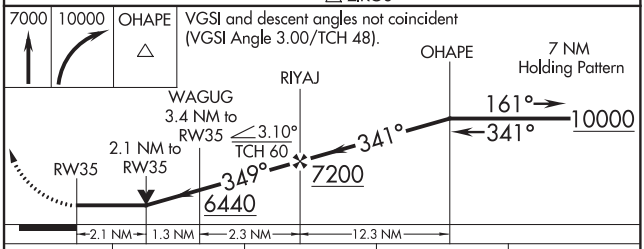
ASOS	SALT LAKE CENTER	UNICOM
135.175	119.95 377.15	122.7 (CTAF) L



ELEV 5280 | D | TDZE 5274

REIL Rwys 17 and 35 L
MIRL Rwy 17-35 L





CATEGORY	A	B	C	D
LNAV MDA*	5980-1 706 (700-1)		5980-2 706 (700-2)	
LNAV MDA	6380-1¼ 1106 (1100-1¼)	6380-1½ 1106 (1100-1½)	6380-3 1106 (1100-3)	
C CIRCLING	6380-1¼ 1100 (1100-1¼)	6380-1½ 1100 (1100-1½)	6380-3 1100 (1100-3)	6400-3 1120 (1200-3)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VERNAL, UTAH | AL-792 (FAA) | 20086

RNAV (GPS) Z RWY 35

VERNAL RGNL (VEL)

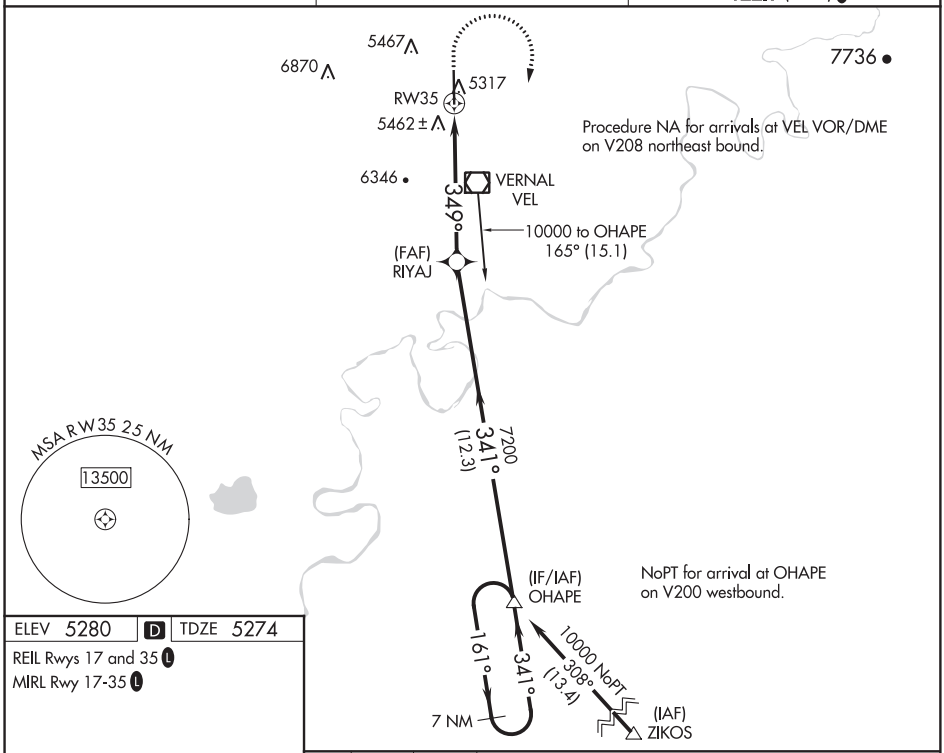
WAAS CH 90241 W35A	APP CRS 349°	Rwy ldg 7000 TDZE 5274 Apt Elev 5280

Baro-VNAV NA when using Roosevelt altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 35°C (96°F). DME/DME RNP-0.3 NA. Rwy 35 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Roosevelt altimeter setting and increase all DA 76 feet, increase *LPV all Cats visibility to 1⅛ SM, increase LNAV/VNAV all Cats visibility to 3 SM, and *LNAV/VNAV all Cats visibility to 1⅞ SM.

-27°C

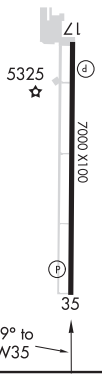
MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct OHAPE and hold.
*Missed approach requires minimumclimb of 290 feet per NM to 8600.

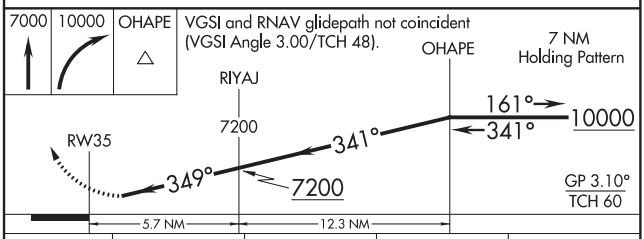
ASOS	SALT LAKE CENTER	UNICOM
135.175	119.95 377.15	122.7 (CTAF) L



ELEV 5280	D	TDZE 5274

REIL Rwys 17 and 35 L
MIRL Rwy 17-35 L





CATEGORY		A	B	C	D
LPV	DA*	5575-1	301 (300-1)		
LPV	DA	6102-3	828 (900-3)		
LNAV/VNAV	DA*	5786-1⅝	512 (600-1⅝)		
LNAV/VNAV	DA	6045-2½	771 (800-2½)		

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

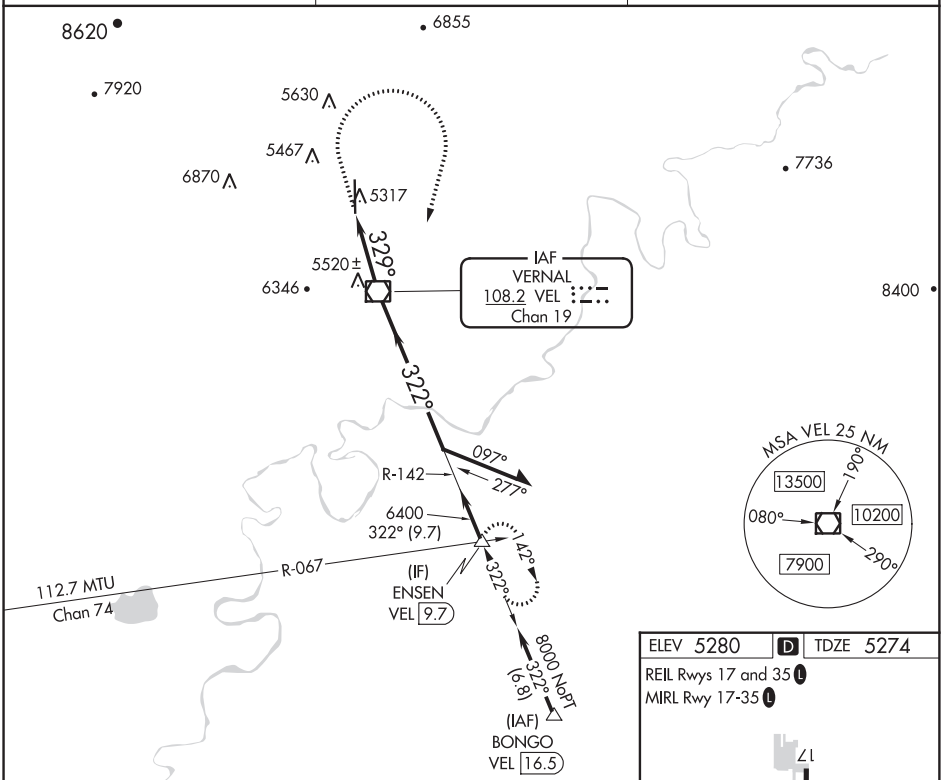
VOR RWY 35
VERNAL RGNL (VEL)

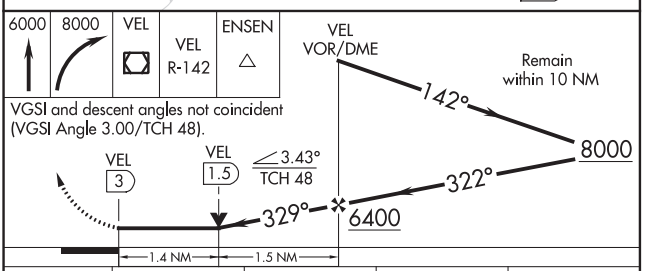
VOR/DME VEL	APP CRS	Rwy ldg	7000
108.2	329°	TDZE	5274
Chan 19		Apt Elev	5280

Circling NA west of Rwy 17-35. Rwy 35 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not available, use Roosevelt altimeter setting and increase all MDA 80 feet. VDP NA when using Roosevelt altimeter setting. -27°C

MISSED APPROACH: Climb to 6000 then climbing right turn to 8000 direct VEL VOR/DME and on VEL VOR/DME R-142 to ENSEN INT/9.7 DME and hold.

ASOS	SALT LAKE CENTER	UNICOM
135.175	119.95 377.15	122.7 (CTAF) L





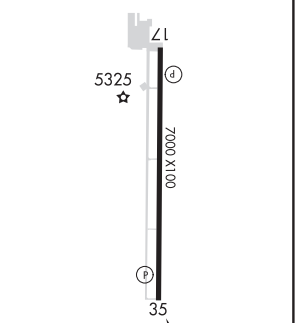
VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 48).

CATEGORY	A	B	C	D
S-35	5880-1¼ 606 (600-1¼)	5880-1½ 606 (600-1½)	5880-3 606 (600-3)	
C CIRCLING	5880-1¼ 600 (600-1¼)	5880-1½ 600 (600-1½)	5920-3 640 (700-3)	6400-3 1120 (1200-3)

ELEV 5280 D TDZE 5274

REIL Rwys 17 and 35 L

MIRL Rwy 17-35 L



FAF to MAP 3 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WENDOVER, UTAH | AL-445 (FAA) | 20086

WAAS CH 42523 W08A	APP CRS 078°	Rwy ldg 10002 TDZE 4230 Apt Elev 4237

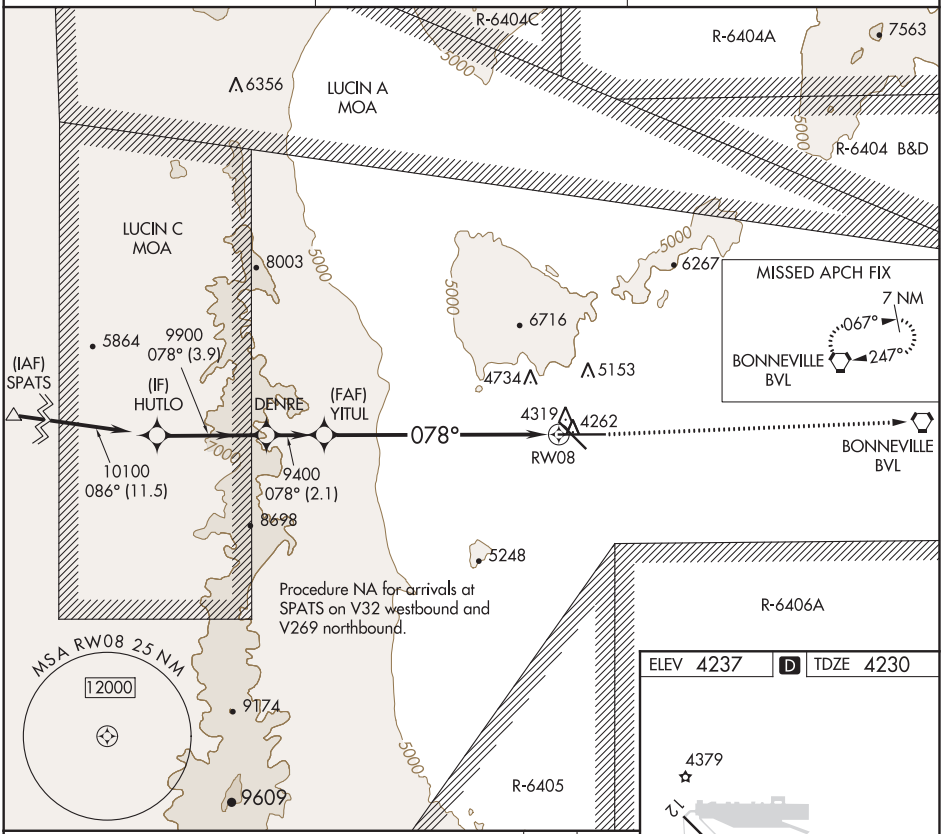
RNAV (GPS) RWY 8
WENDOVER (ENV)

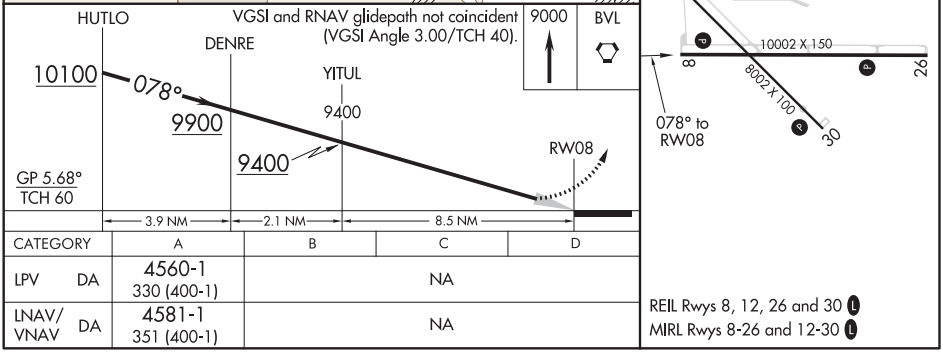
NA
-12°C

Baro-VNAV NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L





CATEGORY		A	B	C	D
LPV	DA	4560-1 330 (400-1)	NA		
LNAV/VNAV	DA	4581-1 351 (400-1)	NA		

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS) RWY 26
WENDOVER (ENV)

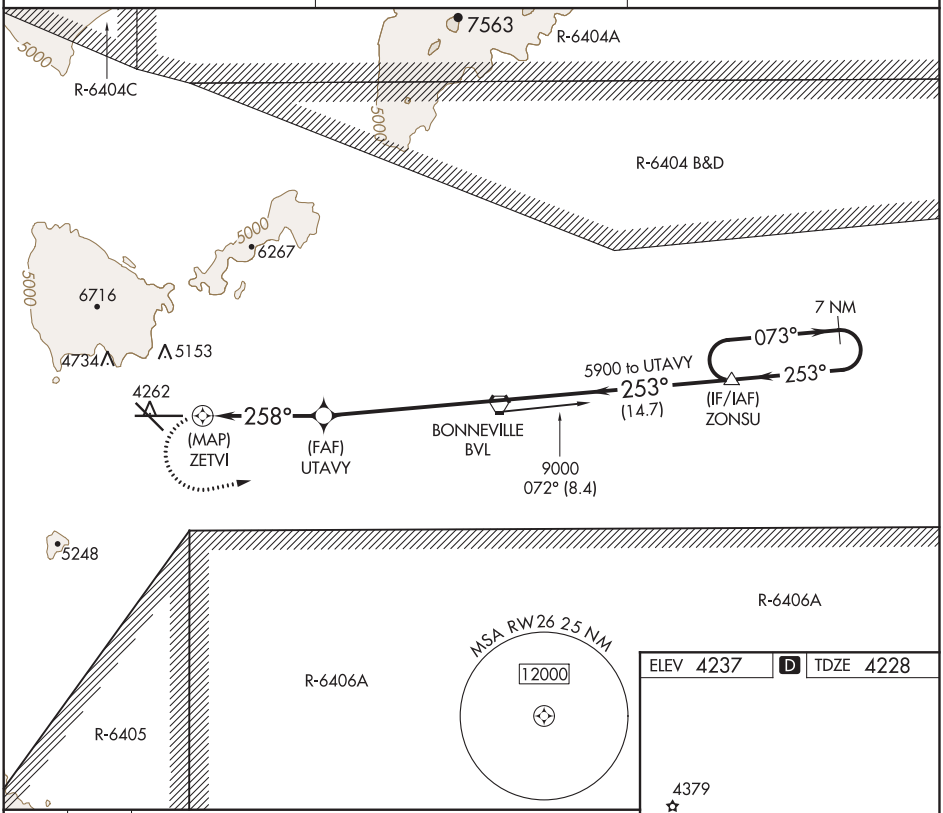
APP CRS	Rwy ldg	10002
258°	TDZE	4228
	Apt Elev	4237

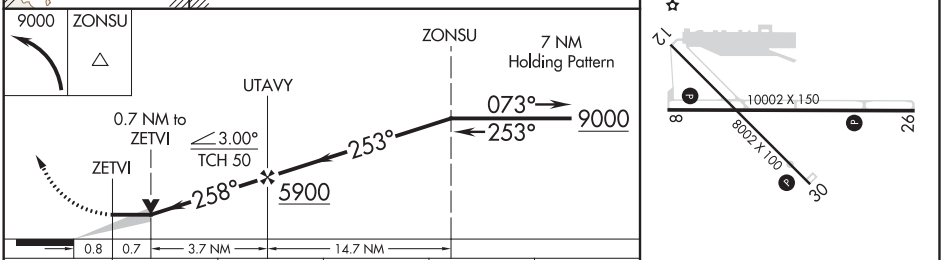
NA
-12°C

Circling NA north of Rwy 8-26.
DME/DME RNP-0.3 NA.

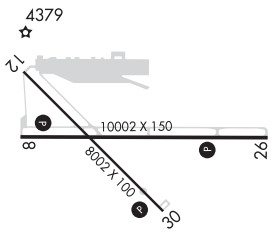
MISSED APPROACH: Climbing left turn to 9000 direct ZONSU and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L





ELEV 4237 | D | TDZE 4228



CATEGORY	A	B	C	D	E
LNAV MDA	4740-1 512 (600-1)		4740-1⅜ 512 (600-1⅜)		
C CIRCLING	4740-1¼ 503 (600-1¼)		4860-1¾ 623 (700-1¾)	5080-2¾ 843 (900-2¾)	5700-3 1463 (1500-3)

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WENDOVER, UTAH | AL-445 (FAA) | 20086

RNAV (GPS)-A
WENDOVER (ENV)

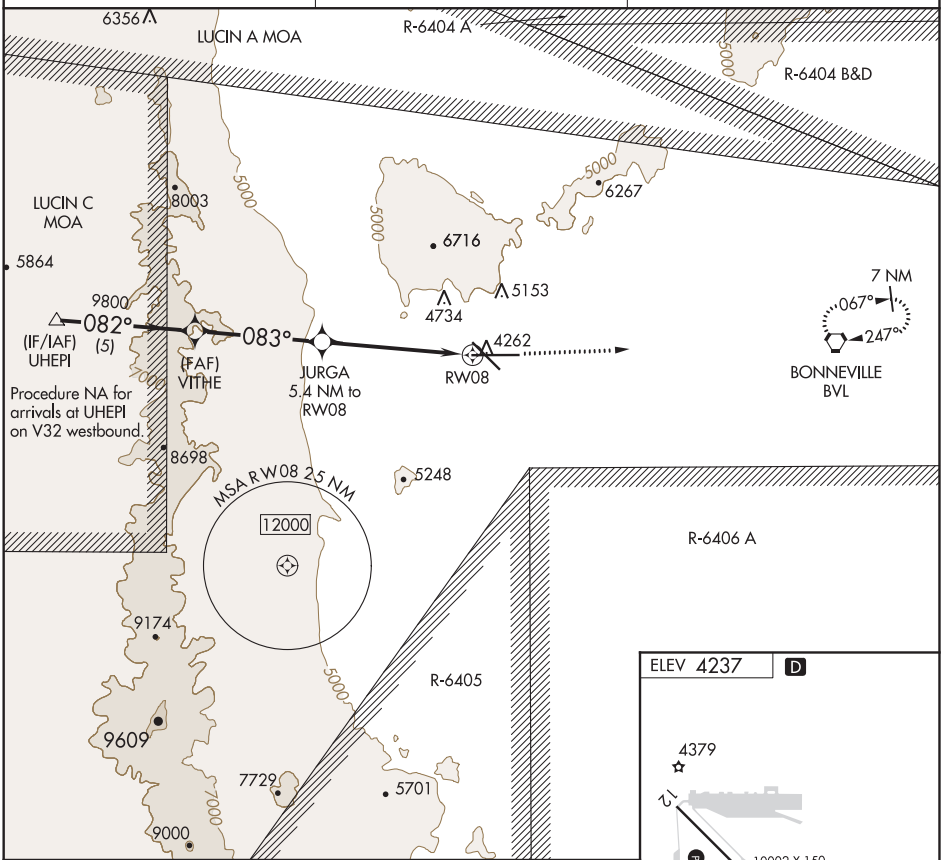
APP CRS	Rwy ldg	N/A
083°	TDZE	N/A
	Apt Elev	4237

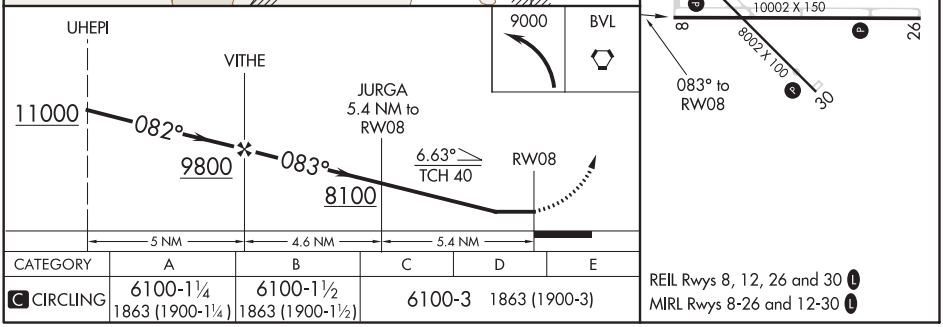
T A -12°C

Circling NA north of Rwy 8-26.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 9000 direct BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L





CATEGORY	A	B	C	D	E
C CIRCLING	6100-1¼ 1863 (1900-1¼)	6100-1½ 1863 (1900-1½)	6100-3	1863 (1900-3)	

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

RNAV (GPS)-C
WENDOVER (ENV)

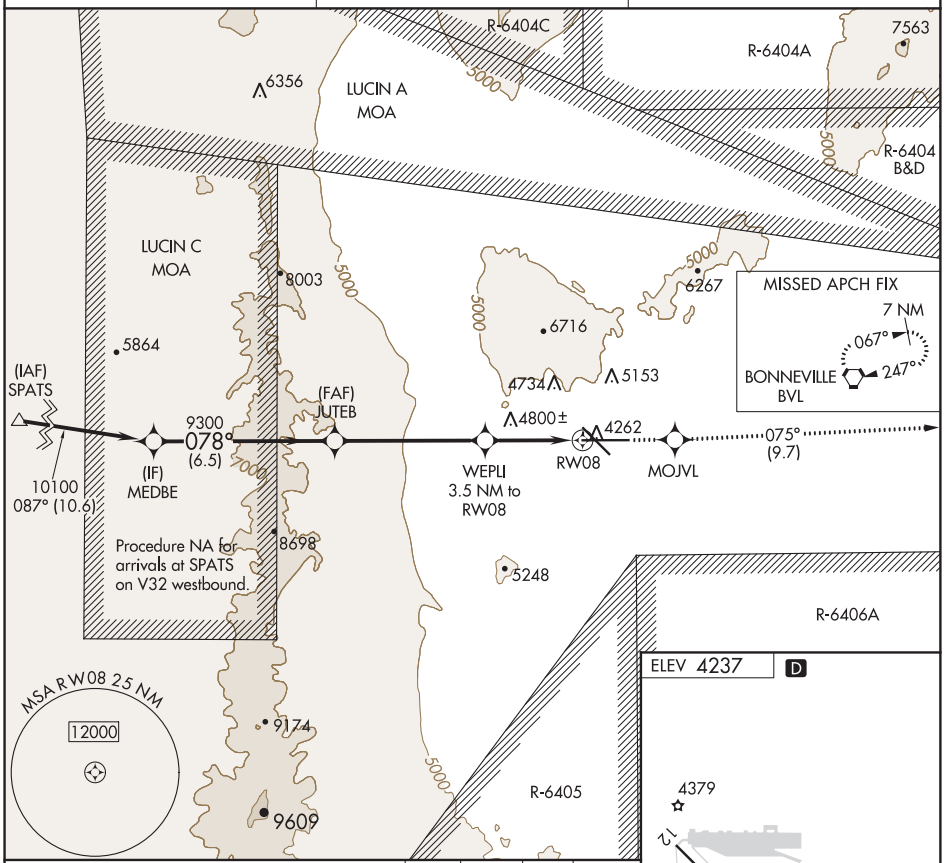
APP CRS	Rwy Idg	N/A
078°	TDZE	N/A
	Apt Elev	4237

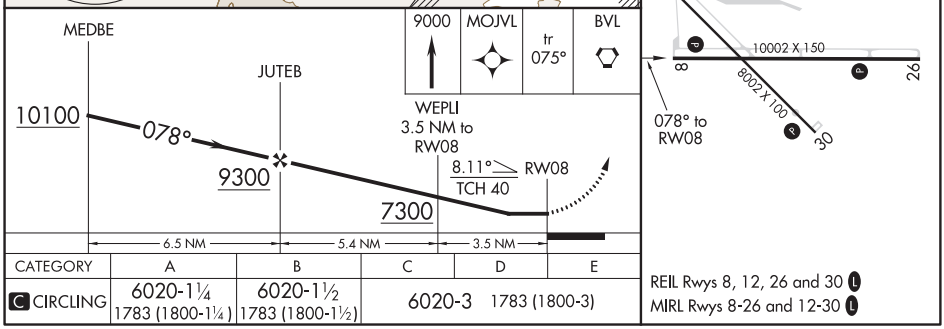
-12°C

Circling NA north of Rwy 8-26. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct MOJVL and on track 075° to BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L





CATEGORY	A	B	C	D	E
C CIRCLING	6020-1¼ 1783 (1800-1¼)	6020-1½ 1783 (1800-1½)	6020-3 1783 (1800-3)		

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WENDOVER, UTAH | AL-445 (FAA) | 20086

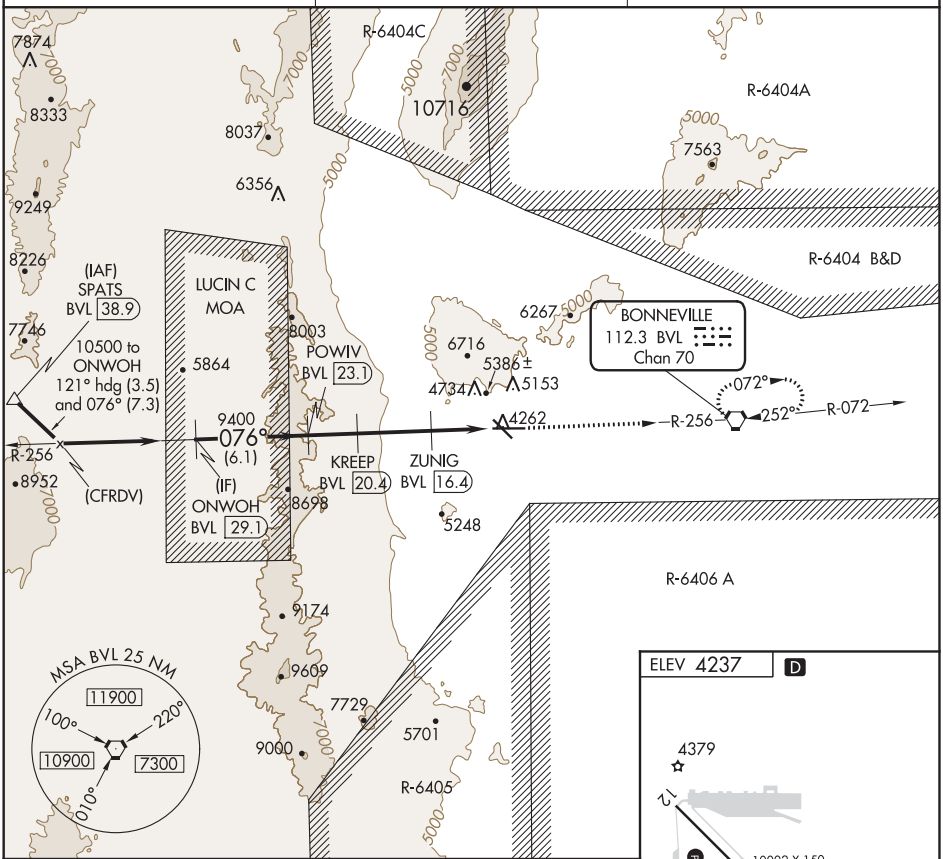
VOR/DME-B
WENDOVER (ENV)

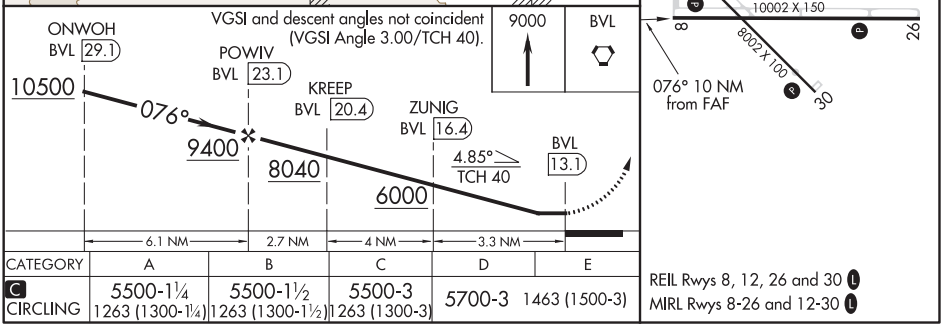
VORTAC BVL 112.3 Chan 70	APP CRS 076°	Rwy ldg N/A TDZE N/A Apt Elev 4237

Circling NA north of Rwy 8-26. -12°C

MISSED APPROACH: Climb to 9000 direct BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L





CATEGORY	A	B	C	D	E
C CIRCLING	5500-1¼ 1263 (1300-1¼)	5500-1½ 1263 (1300-1½)	5500-3 1263 (1300-3)	5700-3 1463 (1500-3)	

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WENDOVER, UTAH
Amdt 2 31MAR16

40°43'N-114°02'W

WENDOVER (ENV)
VOR/DME-B

VOR/DME or TACAN RWY 26
WENDOVER (ENV)

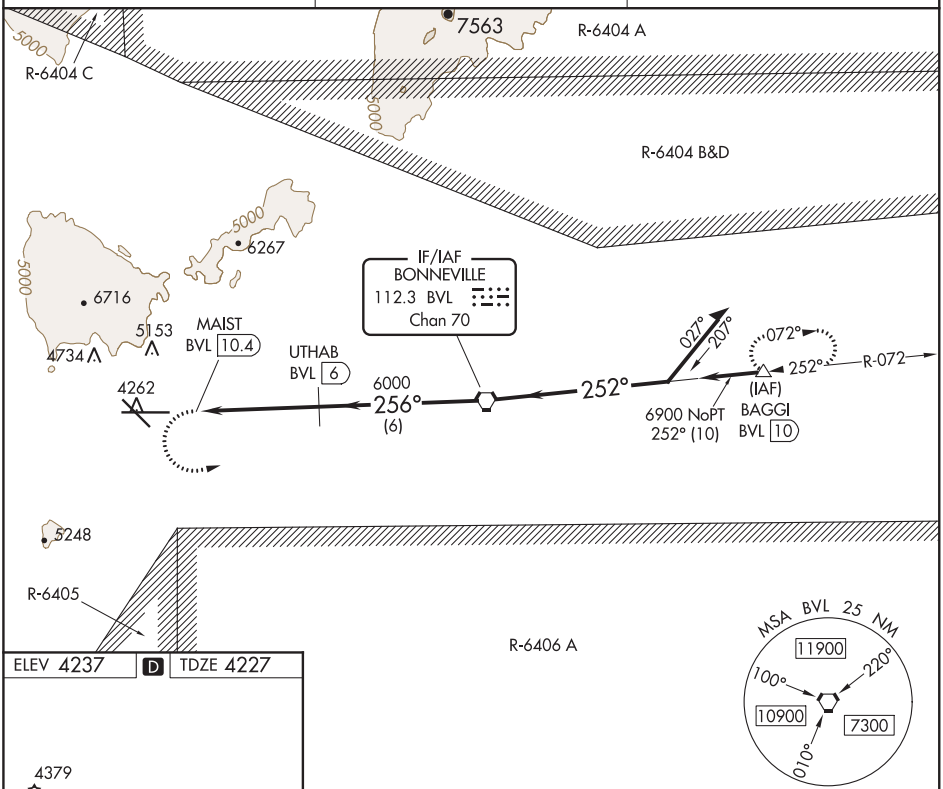
VORTAC BVL	APP CRS	Rwy ldg 10002
112.3	256°	TDZE 4227
Chan 70		Apt Elev 4237

T A -12°C

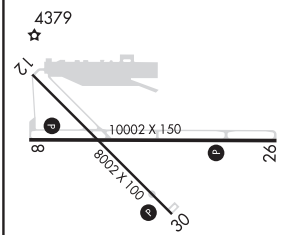
Circling NA north of Rwy 8-26.

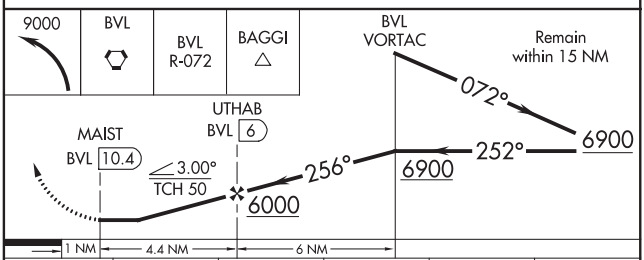
MISSED APPROACH: Climbing left turn to 9000 direct BVL VORTAC and on BVL VORTAC R-072 to BAGGI/10 DME and hold, continue climb-in-hold to 9000.

AWOS-3PT	SALT LAKE CENTER	UNICOM
120.55	128.55 269.175	122.8 (CTAF) L



ELEV 4237 D TDZE 4227





CATEGORY	A	B	C	D	E
S-26	4680-1¼ 453 (500-1¼)		4680-1⅜ 453 (500-1⅜)		
C CIRCLING	4680-1¼ 443 (500-1¼)	4700-1¼ 463 (500-1¼)	4860-1¾ 623 (700-1¾)	5080-2¾ 843 (900-2¾)	5700-3 1463 (1500-3)

REIL Rwys 8, 12, 26 and 30 L
MIRL Rwys 8-26 and 12-30 L

SW-4, 05 NOV 2020 to 31 DEC 2020

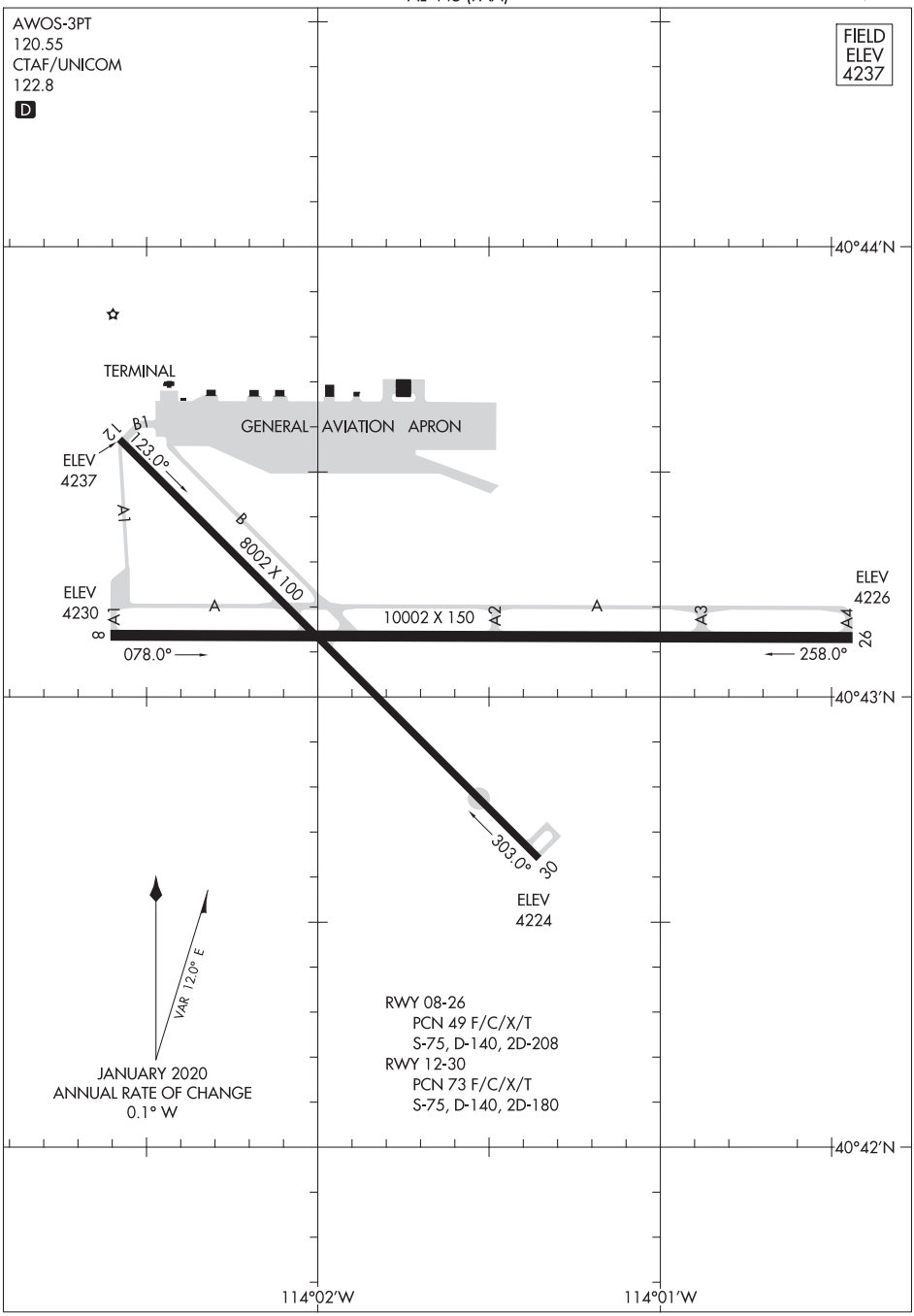
SW-4, 05 NOV 2020 to 31 DEC 2020

20086

AIRPORT DIAGRAM

WENDOVER (ENV)
WENDOVER, UTAH

AL-445 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

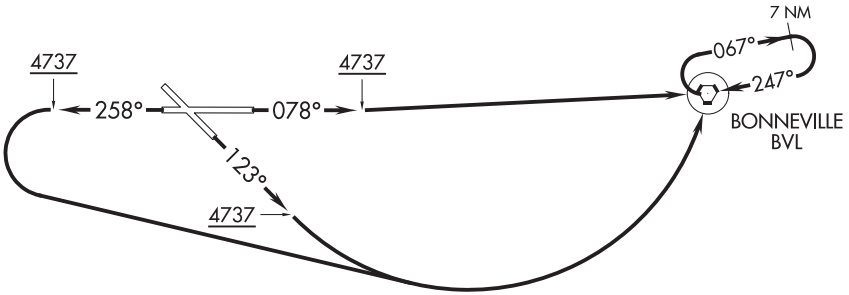
AIRPORT DIAGRAM
20086
WENDOVER, UTAH
WENDOVER (ENV)

WENDOVER ONE DEPARTURE (RNAV)

AL-445 (FAA)

SALT LAKE CENTER
128.55 269.175
CEDAR CITY RADIO
122.1R
UNICOM
122.8 (CTAF)
AWOS-3PT
120.55

TOP ALTITUDE: 9000



NOTE: GPS required.
NOTE: RNAV 1.

TAKEOFF MINIMUMS
Rwys 8, 12: Standard with minimum climb of 500′ per NM to 4737.
Rwy 26: Standard with minimum climb of 500′ per NM to 4737, then minimum climb of 280′ per NM to 6000′.
Rwy 30: NA.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 078° to 4737, then climb to 9000 direct BVL VORTAC and hold, thence . . .

TAKEOFF RUNWAY 12: Climb heading 123° to 4737, then climbing left turn to 9000 direct BVL VORTAC and hold, thence . . .

TAKEOFF RUNWAY 26: Climb heading 258° to 4737, then climbing left turn to 9000 direct BVL VORTAC and hold, thence . . .

. . . continue climb in holding pattern (hold NE, RT, 247° inbound) to 9000 before proceeding on course.

WILLCOX, ARIZONA | AL-85 (FAA) | 20142

RNAV (GPS) RWY 3

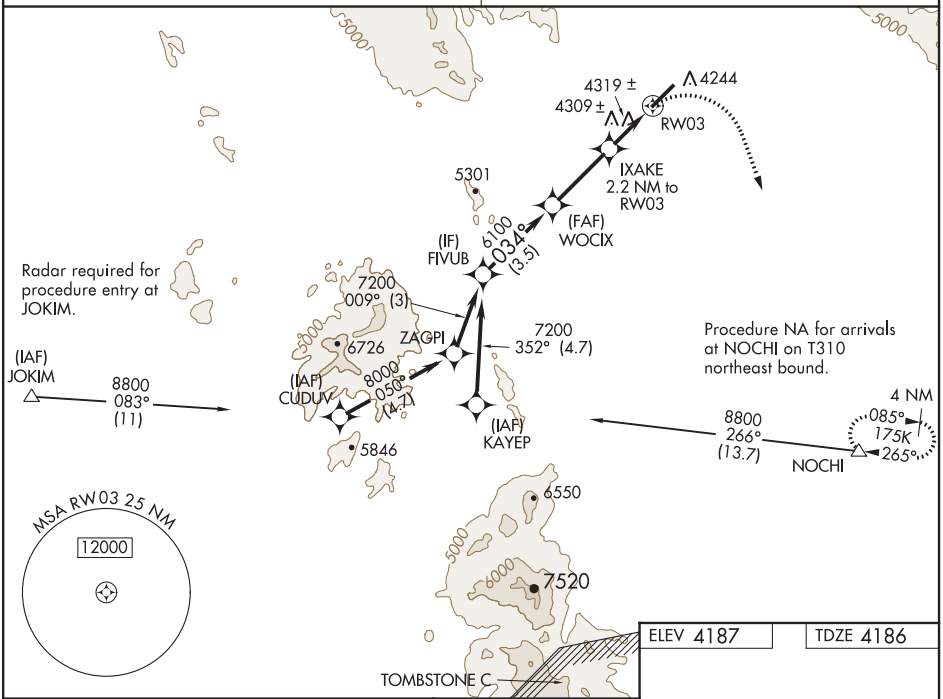
COCHISE COUNTY (P33)

APP CRS	Rwy ldg	6095
034°	TDZE	4186
	Apt Elev	4187

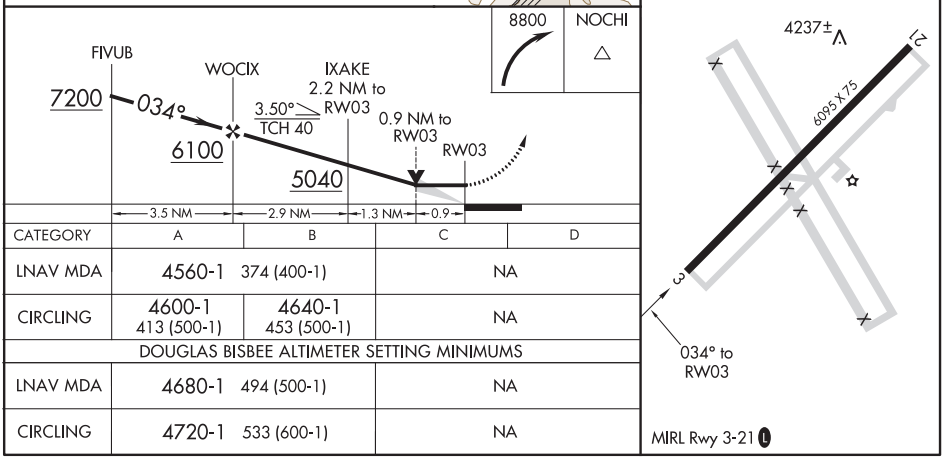
Obtain local altimeter setting on CTAF; when not received, use Douglas Bisbee altimeter setting. DME/DME RNP-0.3 NA. VDP NA with Douglas Bisbee altimeter setting.

MISSED APPROACH: Climbing right turn to 8800 direct NOCHI and hold, continue climb-in-hold to 8800.

ALBUQUERQUE CENTER	UNICOM
134.45 327.15	122.8 (CTAF) L



SW-4, 05 NOV 2020 to 31 DEC 2020



CATEGORY	A	B	C	D
LNAV MDA	4560-1 374 (400-1)		NA	
CIRCLING	4600-1 413 (500-1)	4640-1 453 (500-1)	NA	
DOUGLAS BISBEE ALTIMETER SETTING MINIMUMS				
LNAV MDA	4680-1 494 (500-1)		NA	
CIRCLING	4720-1 533 (600-1)		NA	

WAAS CH 77618 W21A	APP CRS 214°	Rwy ldg 6095 TDZE 4187 Apt Elev 4187

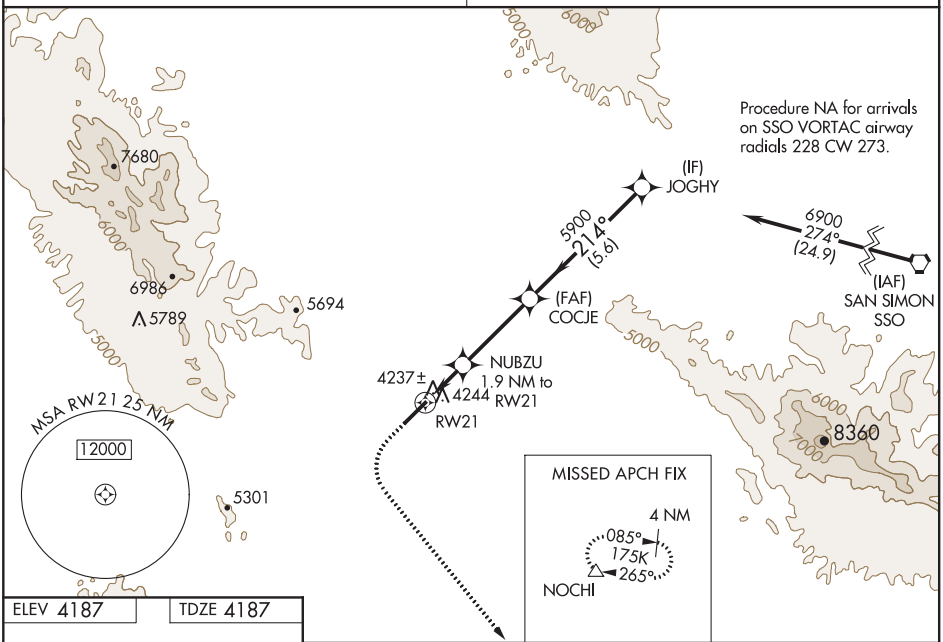
RNAV (GPS) RWY 21
COCHISE COUNTY (P33)

T NA

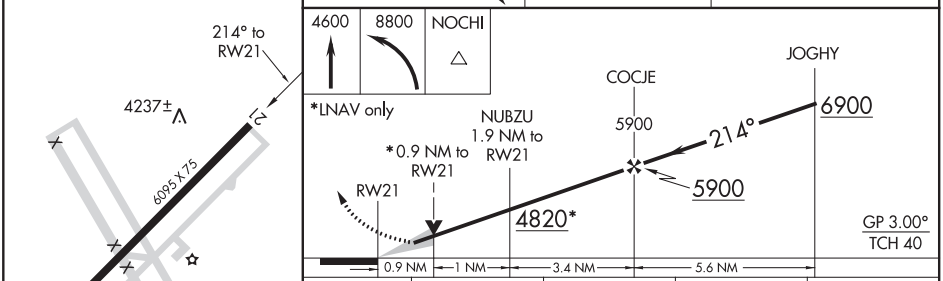
Baro-VNAV NA when using Douglas Bisbee altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 54°C (130°F). Obtain local altimeter setting on CTAF; when not received, use Douglas Bisbee altimeter setting and increase all DA/MDA 120 feet and LPV and LNAV/VNAV visibility all Cats ⅜ mile. DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 4600 then climbing left turn to 8800 direct NOCHI and hold, continue climb-in-hold 8800.

ALBUQUERQUE CENTER	UNICOM
134.45 327.15	122.8 (CTAF) L



ELEV 4187 TDZE 4187



CATEGORY	A	B	C	D
LPV DA	4437-⅞ 250 (300-⅞)		NA	
LNAV/VNAV DA	4437-⅞ 250 (300-⅞)		NA	
LNAV MDA	4500-1 313 (400-1)		NA	
CIRCLING	4600-1 413 (500-1)	4640-1 453 (500-1)	NA	

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

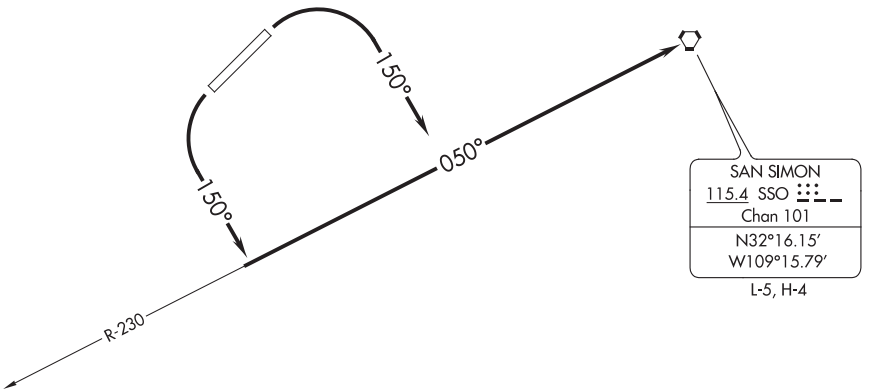
(CIE1.CIE) 18312

COCHISE ONE DEPARTURE (OBSTACLE)

AL-85 (FAA)

COCHISE COUNTY (P33)
WILLCOX, ARIZONA

ALBUQUERQUE CENTER
134.45 327.15



TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

TAKEOFF OBSTACLE NOTES

Rwy 3: Trees beginning 150′ from DER, left and right of centerline, up to 31′ AGL/4216′ MSL.
Rwy 21: Terrain beginning 64′ from DER, left and right of centerline, up to 4190′ MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing right turn heading 150° to intercept SSO VORTAC R-230 to SSO VORTAC before proceeding on course.

TAKEOFF RUNWAY 21: Climbing left turn heading 150° to intercept SSO VORTAC R-230 to SSO VORTAC before proceeding on course.

WAAS CH 56424 W03A	APP CRS 025°	Rwy ldg 7000 TDZE 6719 Apt Elev 6742

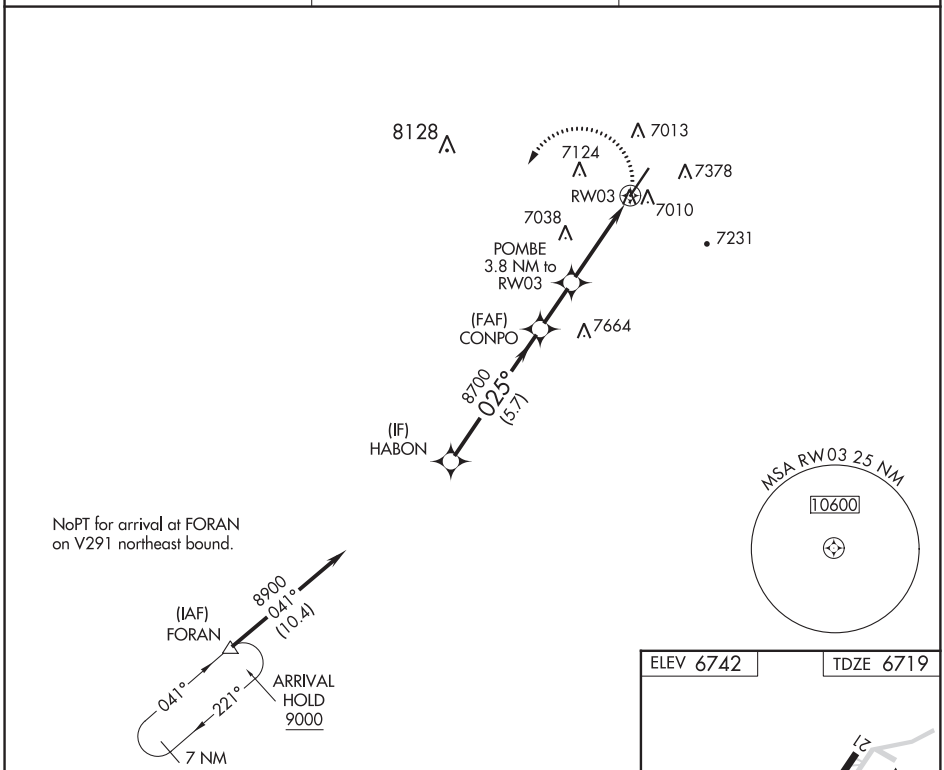
RNAV (GPS) RWY 3
WINDOW ROCK (RQE)

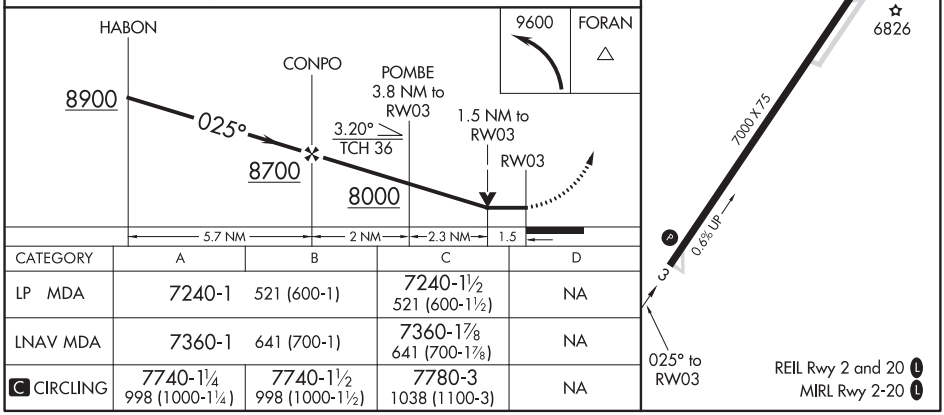
RNP APCH.

Circling Rwy 21 NA at night.
Rwy 3 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing left turn to 9600 direct FORAN and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.325	124.325 288.25	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	7240-1 521 (600-1)		7240-1½ 521 (600-1½)	NA
LNAV MDA	7360-1 641 (700-1)		7360-1⅞ 641 (700-1⅞)	NA
C CIRCLING	7740-1¼ 998 (1000-1¼)	7740-1½ 998 (1000-1½)	7780-3 1038 (1100-3)	NA

WINDOW ROCK, ARIZONA | AL-6357 (FAA) | 20310

APP CRS	Rwy ldg	N/A
175°	TDZE	N/A
	Apt Elev	6742

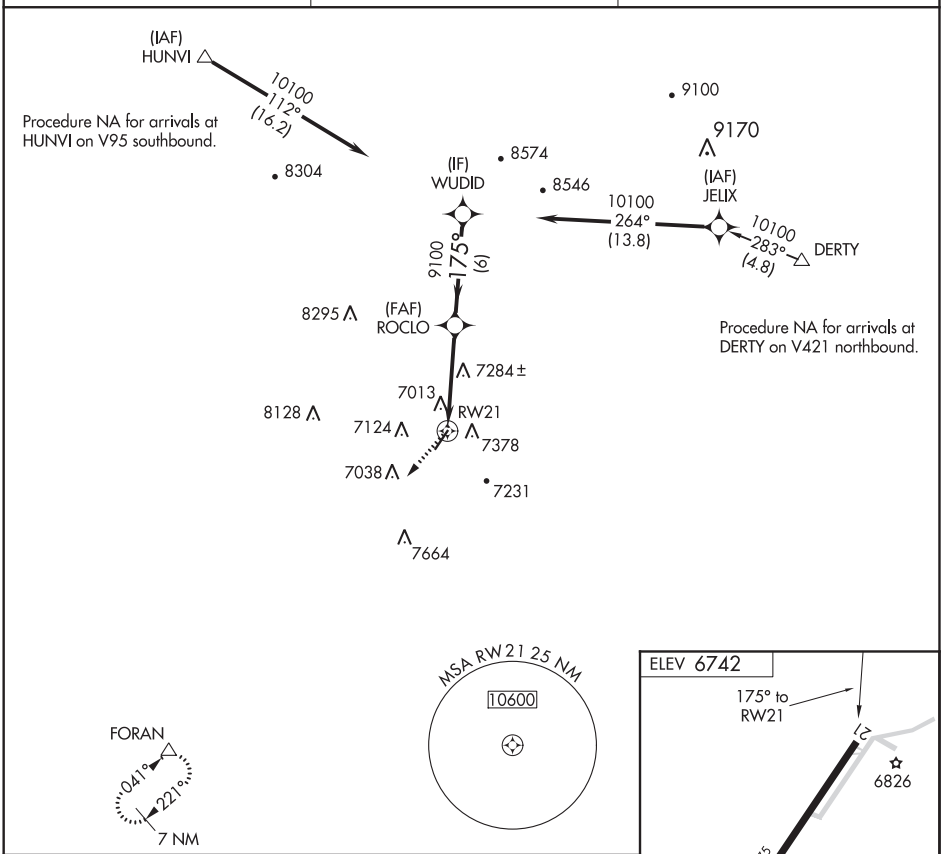
RNAV (GPS)-B
WINDOW ROCK (RQE)

RNP APCH.

Circling Rwy 21 NA at night.

MISSED APPROACH: Climbing right turn to 9600 direct FORAN and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.325	124.325 288.25	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	7740-1¼ 998 (1000-1¼)	7740-1½ 998 (1000-1½)	7780-3 1038 (1100-3)	8080-3 1338 (1400-3)

REIL Rwy 2 and 20 L
MIRL Rwy 2-20 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

VORTAC GUP 115.1 Chan 98	APP CRS 305°	Rwy ldg N/A TDZE N/A Apt Elev 6742

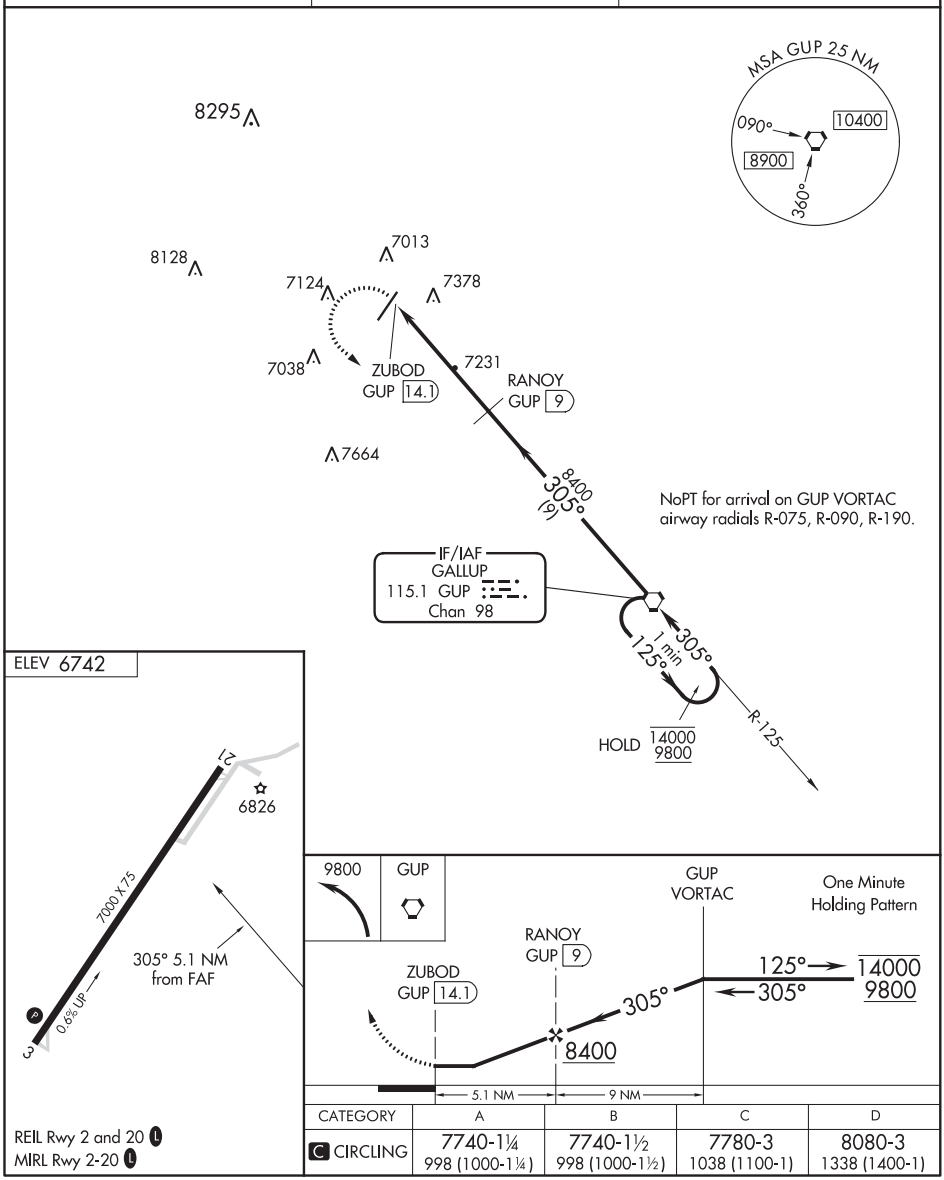
VOR-A
WINDOW ROCK (RQE)

DME required.

Circling Rwy 21 NA at night.

MISSED APPROACH: Climbing left turn to 9800 direct GUP VORTAC and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.325	124.325 288.25	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	7740-1¼ 998 (1000-1¼)	7740-1½ 998 (1000-1½)	7780-3 1038 (1100-1)	8080-3 1338 (1400-1)

REIL Rwy 2 and 20 L
MIRL Rwy 2-20 L

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WINNEMUCCA, NEVADA

AL-6471 (FAA)

20254

WAAS CH 62902 W14A	APP CRS 144°	Rwy ldg 7000 TDZE 4304 Apt Elev 4308

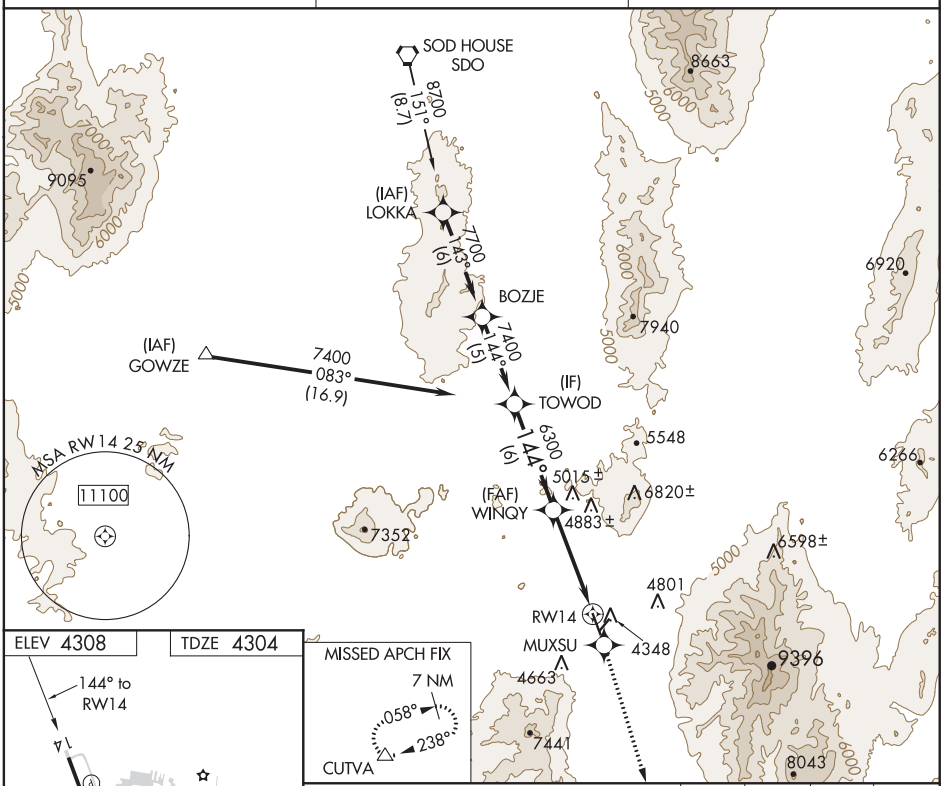
RNAV (GPS) RWY 14
WINNEMUCCA MUNI (WMC)

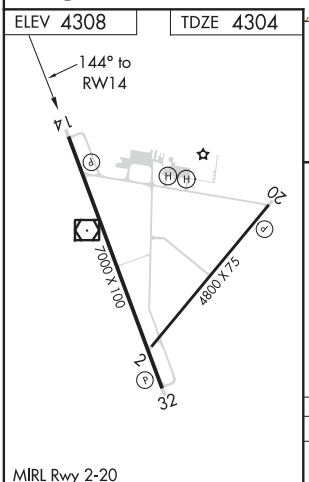
RNP APCH.

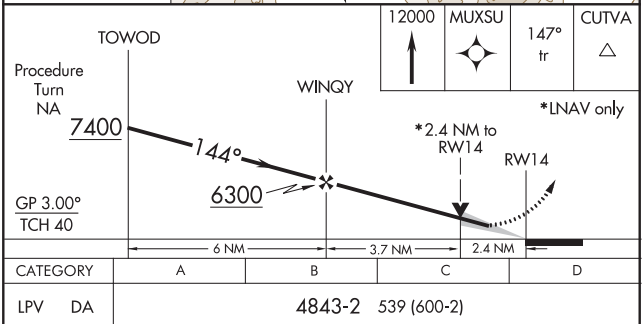
If local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet. VDP NA when using Battle Mountain altimeter setting.

MISSED APPROACH: Climb to 12000 direct MUXSU and via 147° track to CUTVA and hold, continue climb-in-hold to 12000.

ASOS	SALT LAKE CITY CENTER	UNICOM
120.175	132.25 338.35	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	4843-2 539 (600-2)			
LNAV MDA	5100-1 796 (800-1)	5100-1¼ 796 (800-1¼)	5100-2¼ 796 (800-2¼)	5100-2½ 796 (800-2½)

MIRL Rwy 2-20
MIRL Rwy 14-32 L
REIL Rwys 20, 14, and 32

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

WINNEMUCCA, NEVADA
Orig-A 15AUG19

40°54'N-117°48'W

WINNEMUCCA MUNI (WMC)
RNAV (GPS) RWY 14

WAAS CH 72702 W32A	APP CRS 324°	Rwy ldg 7000 TDZE 4304 Apt Elev 4308

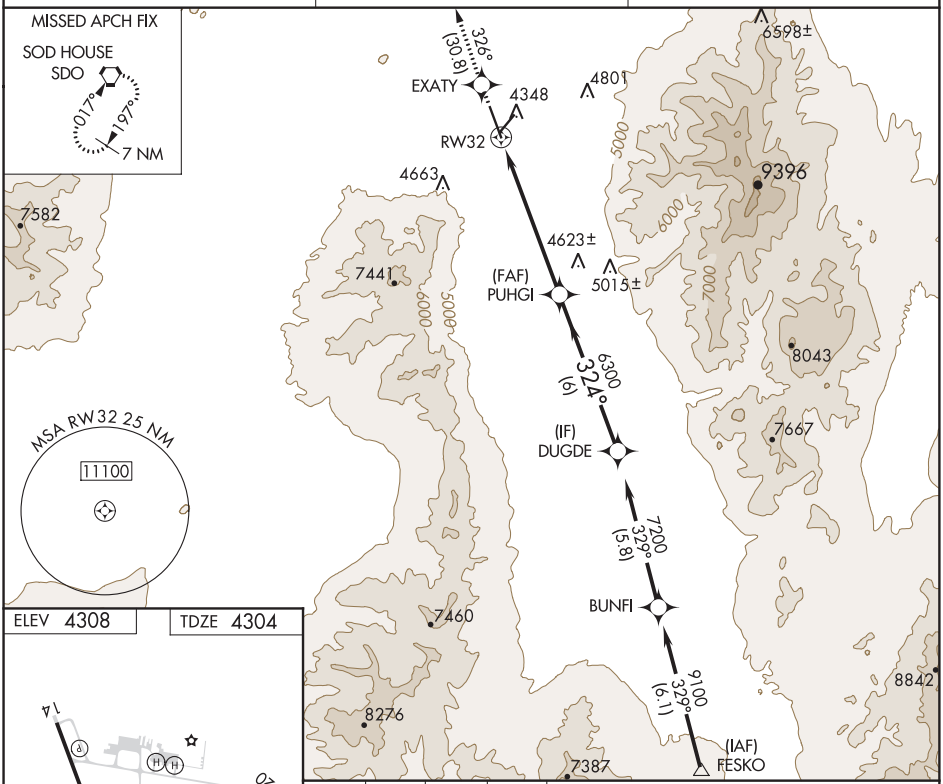
RNAV (GPS) RWY 32
WINNEMUCCA MUNI (WMC)

RNP APCH.

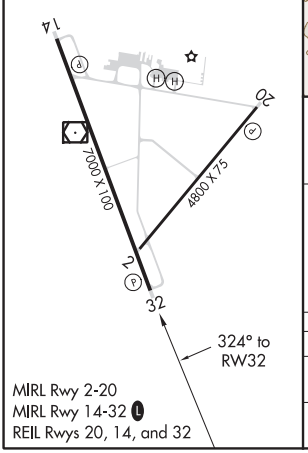
Rwy 32 helicopter visibility reduction below ¾ SM NA.
VDP NA when using Battle Mountain altimeter setting.
When local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet.

MISSED APPROACH: Climb to 10000 direct EXATY and on track 326° to SDO VORTAC and hold.

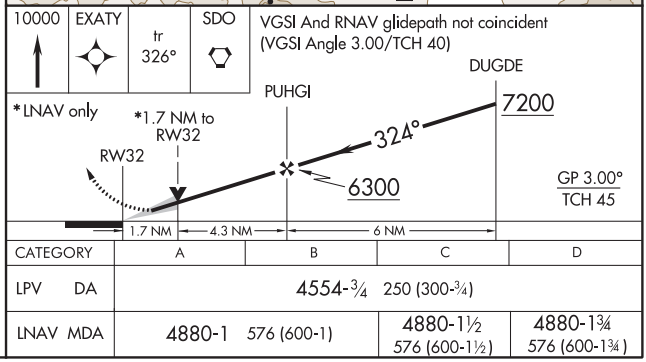
ASOS	SALT LAKE CITY CENTER	UNICOM
120.175	132.25 338.35	122.8 (CTAF) L



ELEV 4308	TDZE 4304



MIRL Rwy 2-20
MIRL Rwy 14-32 L
REIL Rwys 20, 14, and 32



CATEGORY	A	B	C	D
LPV DA	4554-¾ 250 (300-¾)			
LNAV MDA	4880-1 576 (600-1)		4880-1½ 576 (600-1½)	4880-1¾ 576 (600-1¾)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

WINNEMUCCA, NEVADA | AL-6471 (FAA) | 20254

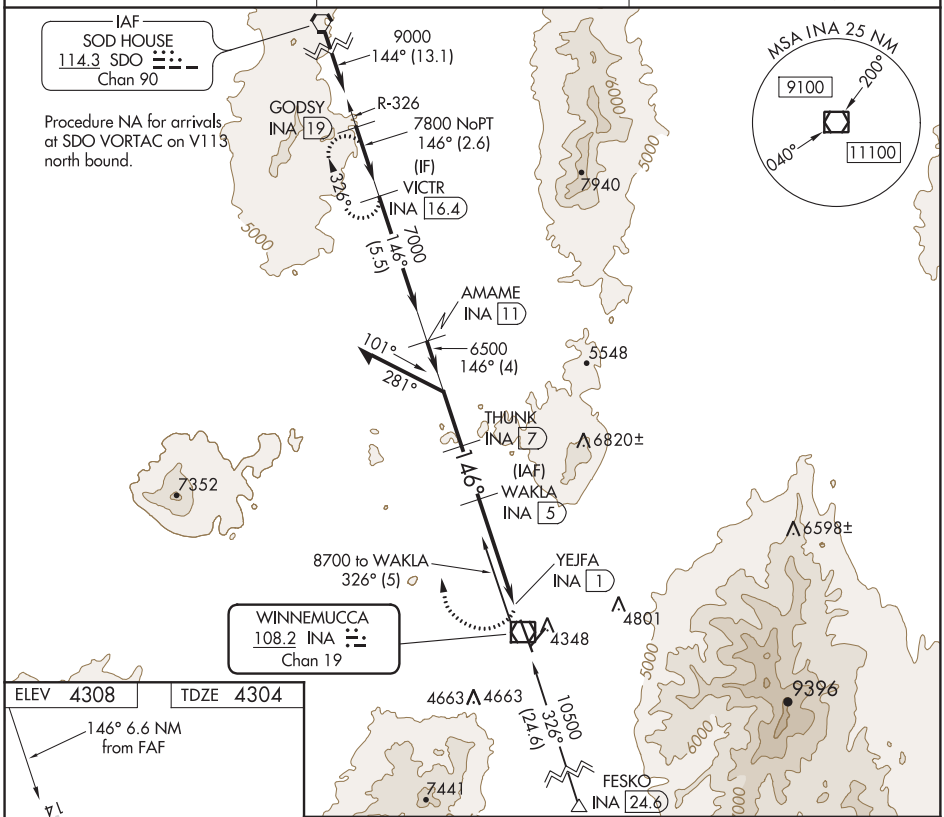
VOR/DME INA 108.2 Chan 19	APP CRS 146°	Rwy ldg 7000 TDZE 4304 Apt Elev 4308

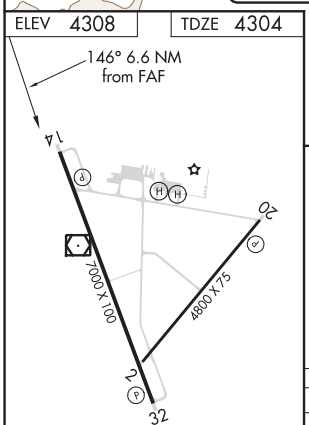
VOR RWY 14
WINNEMUCCA MUNI (WMC)

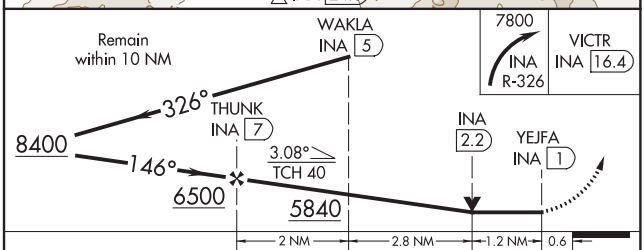
DME required.

MISSED APPROACH: Climbing right turn to 7800 on INA VOR/DME R-326 to VICTR/INA 16.4 DME and hold.

ASOS	SALT LAKE CITY CENTER	UNICOM
120.175	132.25 338.35	122.8 (CTAF) L







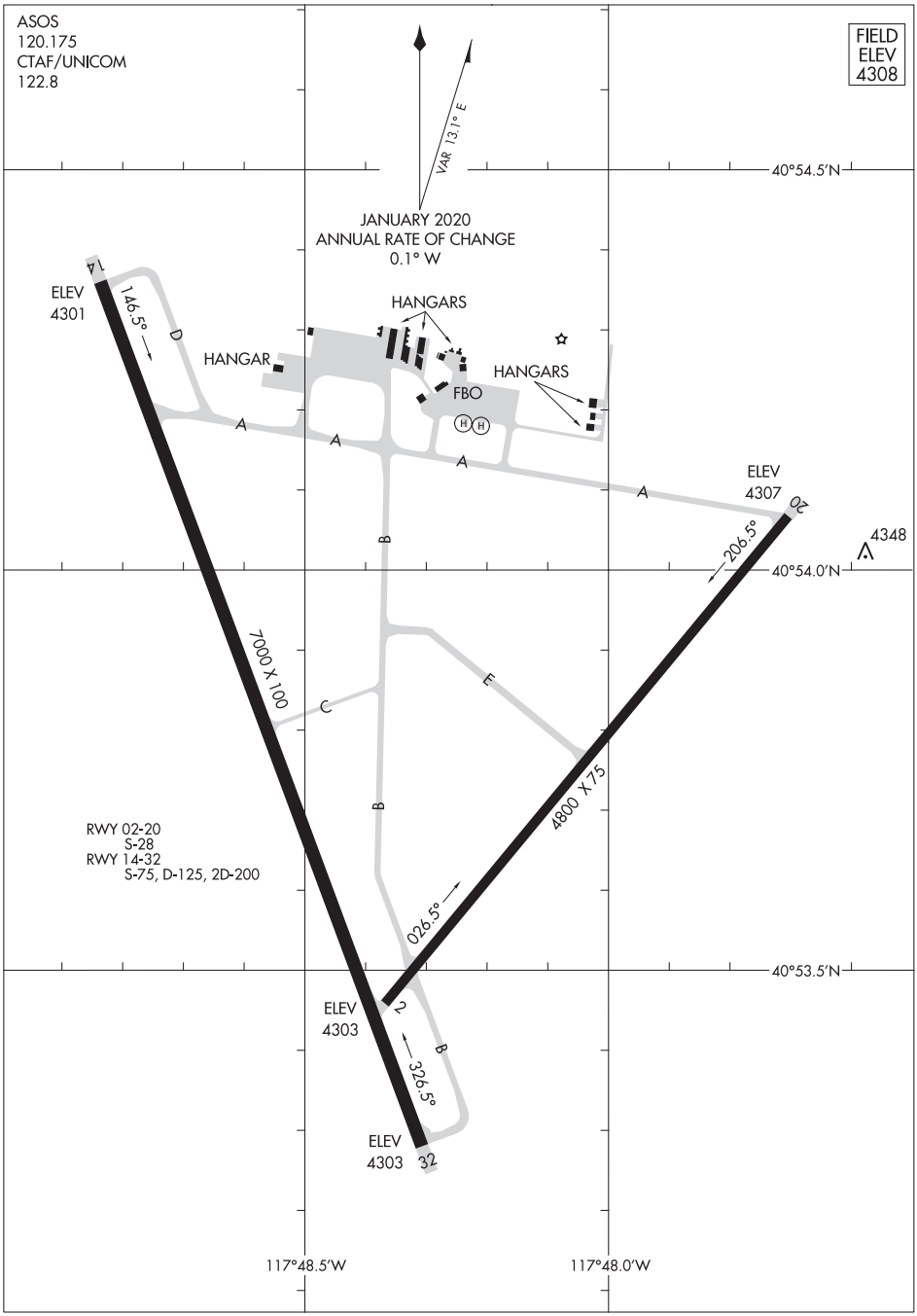
CATEGORY	A	B	C	D
S-14	4940-1	636 (700-1)	4940-1¾ 636 (700-1¾)	NA
C CIRCLING	4940-1	632 (700-1)	5280-3 972 (1000-3)	NA

MIRL Rwy 2-20
MIRL Rwy 14-32 L
REIL Rwys 20, 14, and 32

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

AL-6471 (FAA)



SW-4, 05 NOV 2020 to 31 DEC 2020

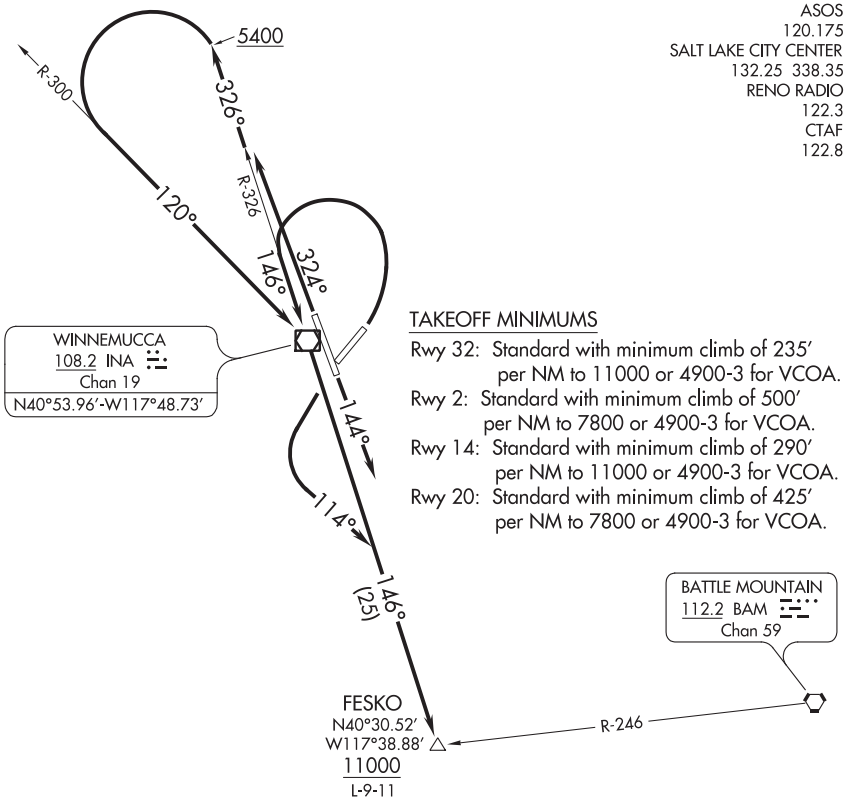
SW-4, 05 NOV 2020 to 31 DEC 2020

(INA1.INA) 20030 AL-6471 (FAA)

WINNEMUCCA ONE DEPARTURE (OBSTACLE)

WINNEMUCCA MUNI (WMC)
WINNEMUCCA, NEVADA

ASOS
120.175
SALT LAKE CITY CENTER
132.25 338.35
RENO RADIO
122.3
CTAF
122.8



TAKEOFF MINIMUMS

Rwy 32: Standard with minimum climb of 235′ per NM to 11000 or 4900-3 for VCOA.
Rwy 2: Standard with minimum climb of 500′ per NM to 7800 or 4900-3 for VCOA.
Rwy 14: Standard with minimum climb of 290′ per NM to 11000 or 4900-3 for VCOA.
Rwy 20: Standard with minimum climb of 425′ per NM to 7800 or 4900-3 for VCOA.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climbing left turn to intercept INA R-326 inbound to INA VOR/DME, thence. . . .
TAKEOFF RUNWAY 14: Climb on heading 144° to intercept INA VOR/DME R-146 outbound, thence. . . .
TAKEOFF RUNWAY 20: Climbing left turn heading 114° to intercept INA VOR/DME R-146 outbound, thence. . . .
TAKEOFF RUNWAY 32: Climb on heading 324° to intercept INA R-326 outbound to 5400 then climbing left turn to intercept INA R-300 inbound to INA VOR/DME, thence. . . .

. . . .all aircraft climb on the INA VOR/DME R-146 southeast bound to cross FESKO at or above 11000 before proceeding on assigned route of flight.

VCOA: Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Winnemucca Muni Airport at or above 9100 before proceeding on course.

WINNEMUCCA ONE DEPARTURE (OBSTACLE)

WINNEMUCCA, NEVADA
WINNEMUCCA MUNI (WMC)

(INA1.INA) 30JAN20

SW-4, 05 NOV 2020 to 31 DEC 2020

TAKEOFF OBSTACLE NOTES

Rwy 2: Tree, NAVAID, beginning 3′ from DER, 113′ right of centerline, up to 4356′ MSL.
NAVAID 39′ from DER, 118′ left of centerline, 8′ AGL/4311′ MSL.
Tree 81′ from DER, 402′ right of centerline, 4357′ MSL.
Tree, vehicles on traverse way beginning 98′ from DER, 230′ right of centerline, up to 4373′ MSL.
Tree 1177′ from DER, 576′ left of centerline, 4346′ MSL.
Tree 1265′ from DER, 763′ left of centerline, 4349′ MSL.
Tree 1404′ from DER, 647′ left of centerline, 4360′ MSL.

Rwy 14: Pole 1′ from DER, 24′ left of centerline, 4304′ MSL.
NAVAID 40′ from DER, 126′ left of centerline, 4305′ MSL.
Vehicles on traverse way, vegetation, trees beginning 58′ from DER, 183′ left of centerline, up to 40′ AGL/4322′ MSL.
Vehicles on traverse way beginning 343′ from DER, 77′ left of centerline, up to 4325′ MSL.

Rwy 20: Tree 26′ from DER, 406′ right of centerline, 4306′ MSL.
Trees beginning 46′ from DER, 63′ right of centerline, up to 40′ AGL/4329′ MSL.
Pole 65′ from DER, 385′ left of centerline, 8′ AGL/4311′ MSL.

Rwy 32: NAVAID 39′ from DER, 123′ left of centerline, 3′ AGL/4303′ MSL.
Vegetation 77′ from DER, 351′ left of centerline, 4304′ MSL.
Tree 166′ from DER, 478′ right of centerline, 4306′ MSL.
Vehicles on traverse way beginning 184′ from DER, 405′ left of centerline, up to 4314′ MSL.
Vehicles on traverse way, 273′ from DER, 267′ right of centerline, up to 4316′ MSL.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

WINSLOW, ARIZONA | AL-462 (FAA) | 20310

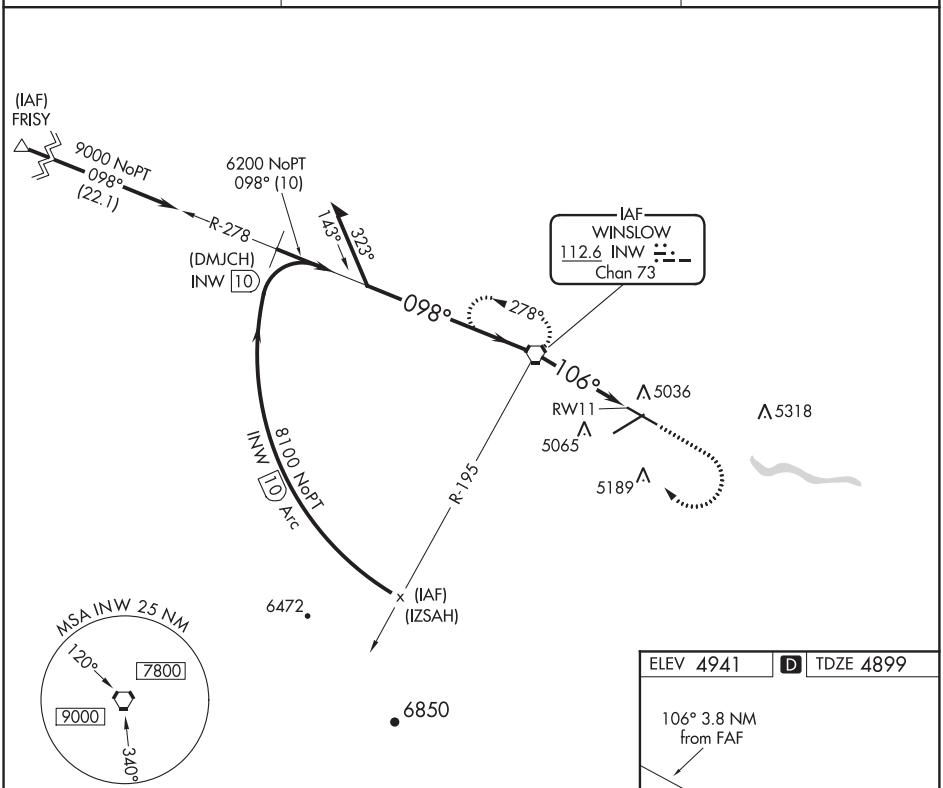
VORTAC INW 112.6 Chan 73	APP CRS 106°	Rwy ldg 7100 TDZE 4899 Apt Elev 4941

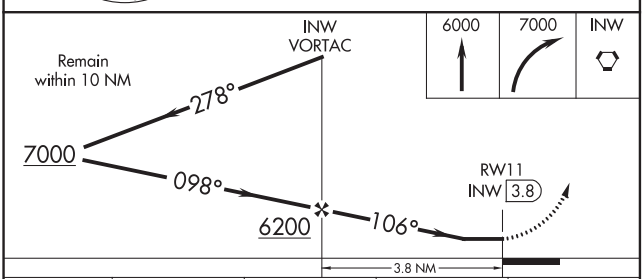
VOR or GPS RWY 11
WINSLOW-LINDBERGH RGNL (INW)

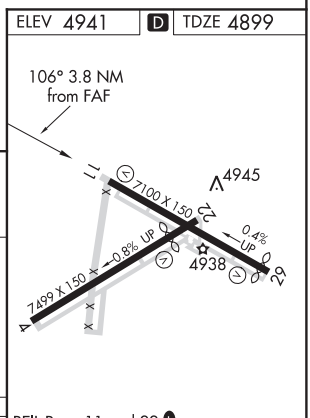
Rwy 11 Straight-in and Circling and Circling to Rwy 4 NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 6000, then climbing right turn to 7000 direct INW VORTAC and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.875	127.675 306.2	122.8 (CTAF) L







REIL Rwys 11 and 22 L
MIRL Rwys 4-22 and 11-29 L

CATEGORY	A	B	C	D
S-11	5340-1 441 (500-1)		5340-1¼ 441 (500-1¼)	5340-1½ 441 (500-1½)
CIRCLING	5420-1 479 (500-1)	5440-1 499 (500-1)	5480-1½ 539 (600-1½)	5520-2 579 (600-2)

FAF to MAP 3.8 NM					
Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA, ARIZONA

ILS or LOC/DME RWY 21R

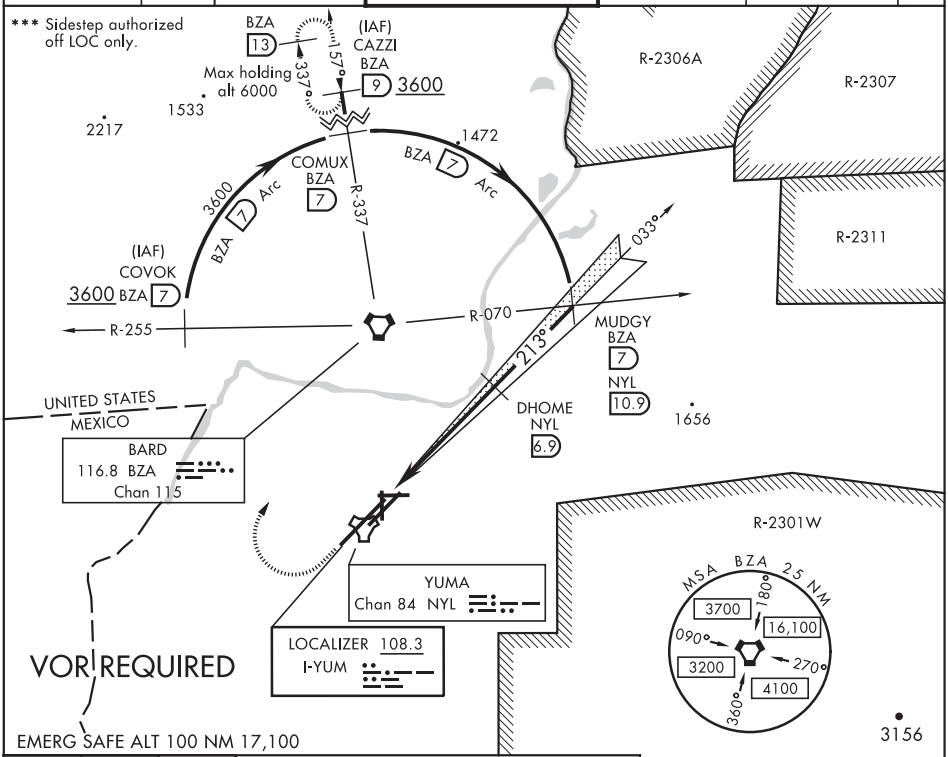
LOC I-YUM 108.3	APCH CRS 213°	Rwy ldg 21L 9239 21R 13,300 TDZE 21L 208 21R 193 Arpt Elev 213	AL-511 [USN] YUMA MCAS/YUMA INTL (KNYL)

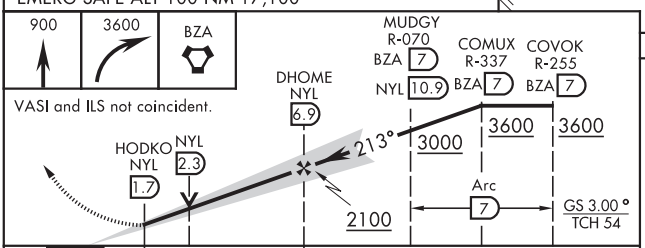
T * When ALS inop, increase CAT ABCD vis to ¾ mile.
** When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅛ miles.

MALSR A5

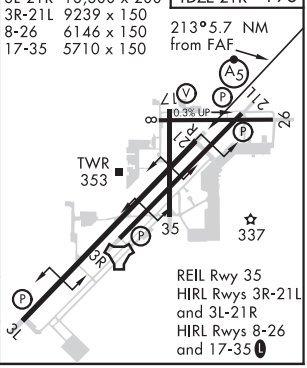
MISSED APPROACH: Climb to 900, then climbing right turn to 3600 direct BZA VORTAC and BZA R-337 to CAZZI and hold.

ATIS★	ASOS	YUMA APP CON	YUMA TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) L 377.075	121.9 314.0	118.0 336.4	





ELEV 213	TDZE 21L 208
3L-21R 13,300 x 200	TDZE 21R 193
3R-21L 9239 x 150	
8-26 6146 x 150	
17-35 5710 x 150	



CATEGORY	A	B	C	D
S-ILS 21R *	393-½ 200 (200-½)			
S-LOC 21R**	600-½ 407 (400-½)		600-¾ 407 (400-¾)	
SIDESTEP*** 21L	600-1 392 (400-1)		600-1⅛ 392 (400-1⅛)	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

18144

YUMA, ARIZONA

RNAV (GPS) RWY 3L

APCH CRS	Rwy ldg	13,300
033°	TDZE	195
	Arpt Elev	213

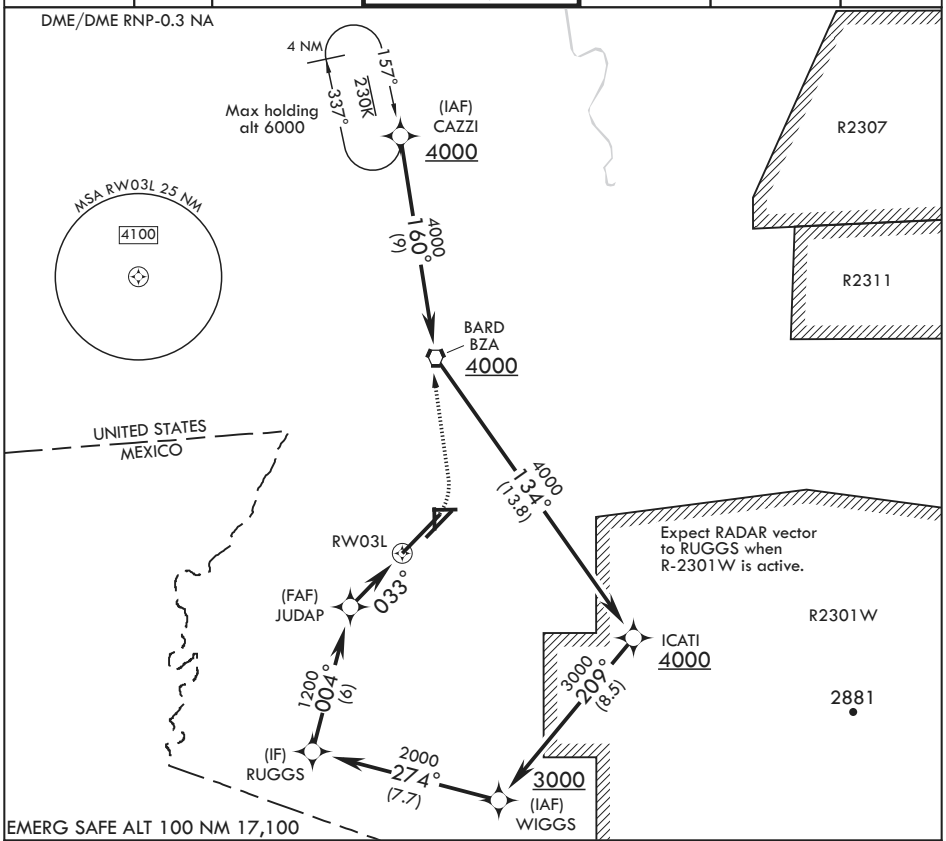
AL-511 (USN)

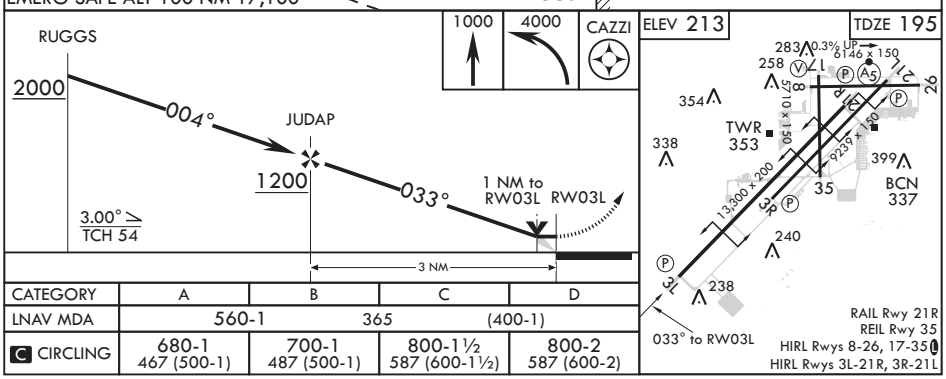
YUMA MCAS YUMA INTL (KNYL)

MISSED APPROACH: Climb to 1000, then climbing left turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000.

ATIS★	ASOS	APP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) 377.075	121.9 314.0	118.0 336.4	

DME/DME RNP-0.3 NA





CATEGORY	A	B	C	D
LNAV MDA	560-1 365 (400-1)			
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA, ARIZONA

RNAV (GPS) RWY 17

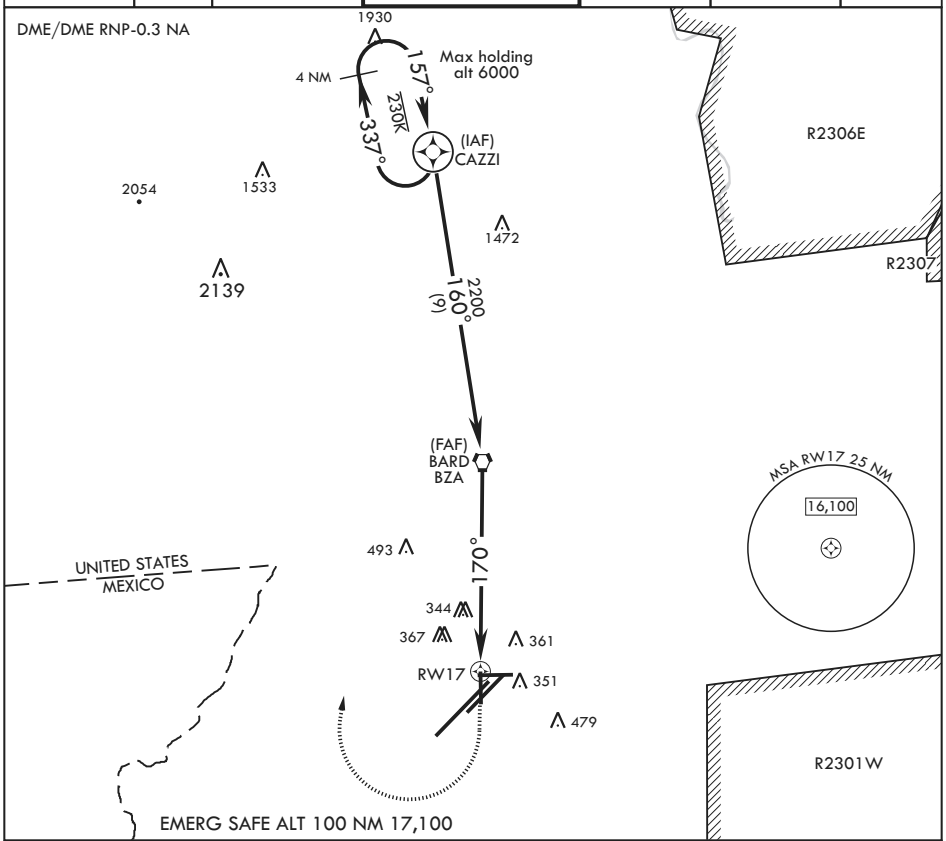
APCH CRS 170°	Rwy ldg 5710 TDZE 197 Arpt Elev 213

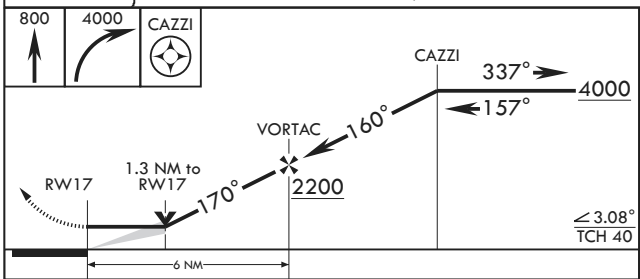
AL-511 (USN)

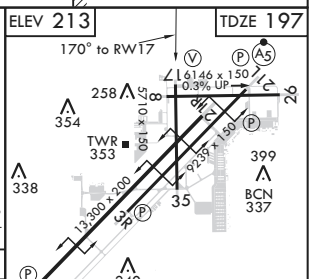
YUMA MCAS YUMA INTL (KNYL)

MISSED APPROACH: Climb to 800 then, climbing right turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000.

ATIS★	ASOS	APP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) 377.075	121.9 314.0	118.0 336.4	







CATEGORY	A	B	C	D
LNAV MDA	640-1 443 (500-1)		640-1 3/8 443 (500-1 3/8)	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1 1/2 587 (600-1 1/2)	800-2 587 (600-2)

YUMA, ARIZONA

Amdt 4 20JUN19

32°39'N - 114°36'W

YUMA MCAS YUMA INTL (KNYL)

RNAV (GPS) RWY 17

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

19171

YUMA, ARIZONA

RNAV (GPS) RWY 21R

APCH CRS	Rwy ldg	13,300
213°	TDZE	193
	Arpt Elev	213

AL-511 (USN)

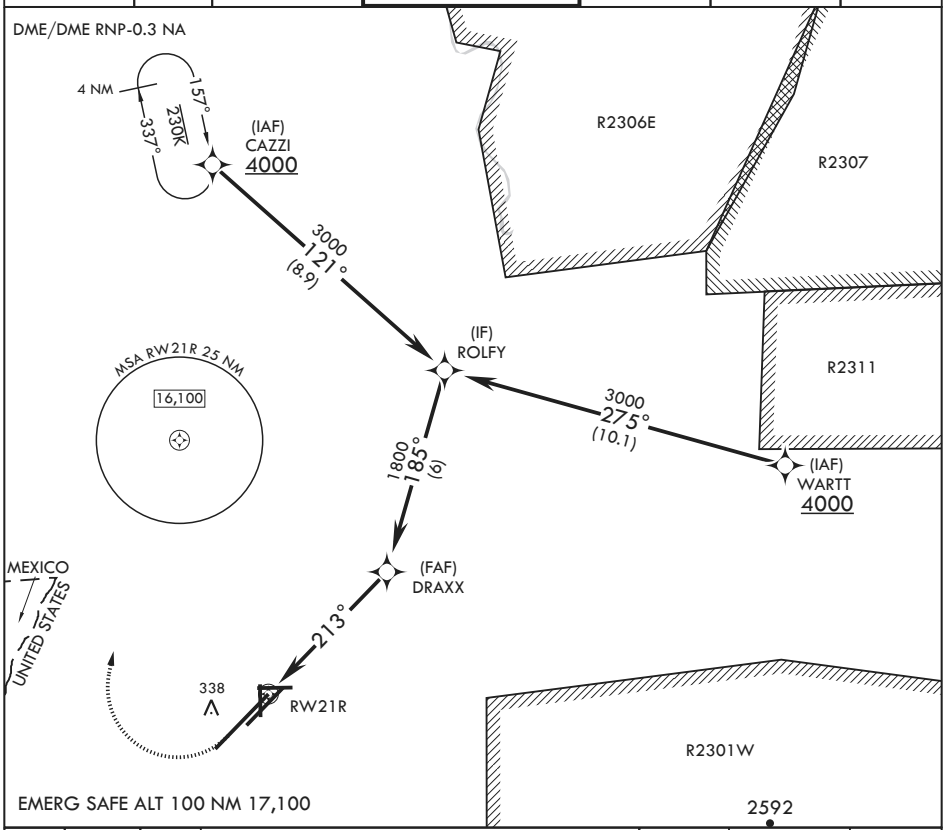
YUMA MCAS YUMA INTL (KNYL)

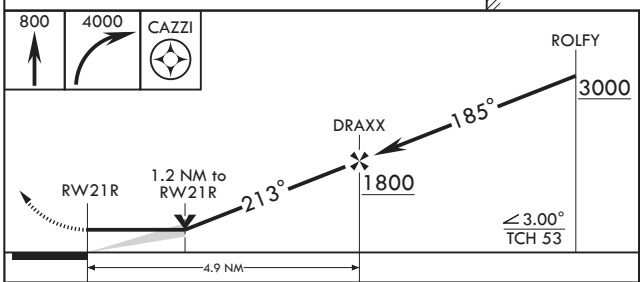
* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1 1/4 miles.

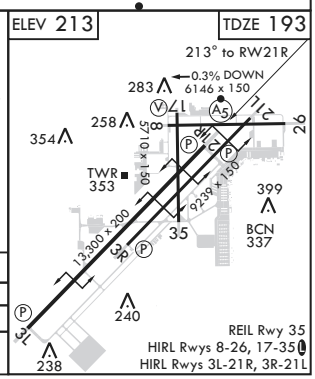
MALSR

MISSED APPROACH: Climb to 800 then, climbing right turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000.

ATIS★	ASOS	APP CON	TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) 377.075	121.9 314.0	118.0 336.4	







CATEGORY	A	B	C	D
LNAV MDA*	620-½ 427 (500-½)		620-¾ 427 (500-¾)	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA, ARIZONA

VOR/DME or TACAN RWY 17

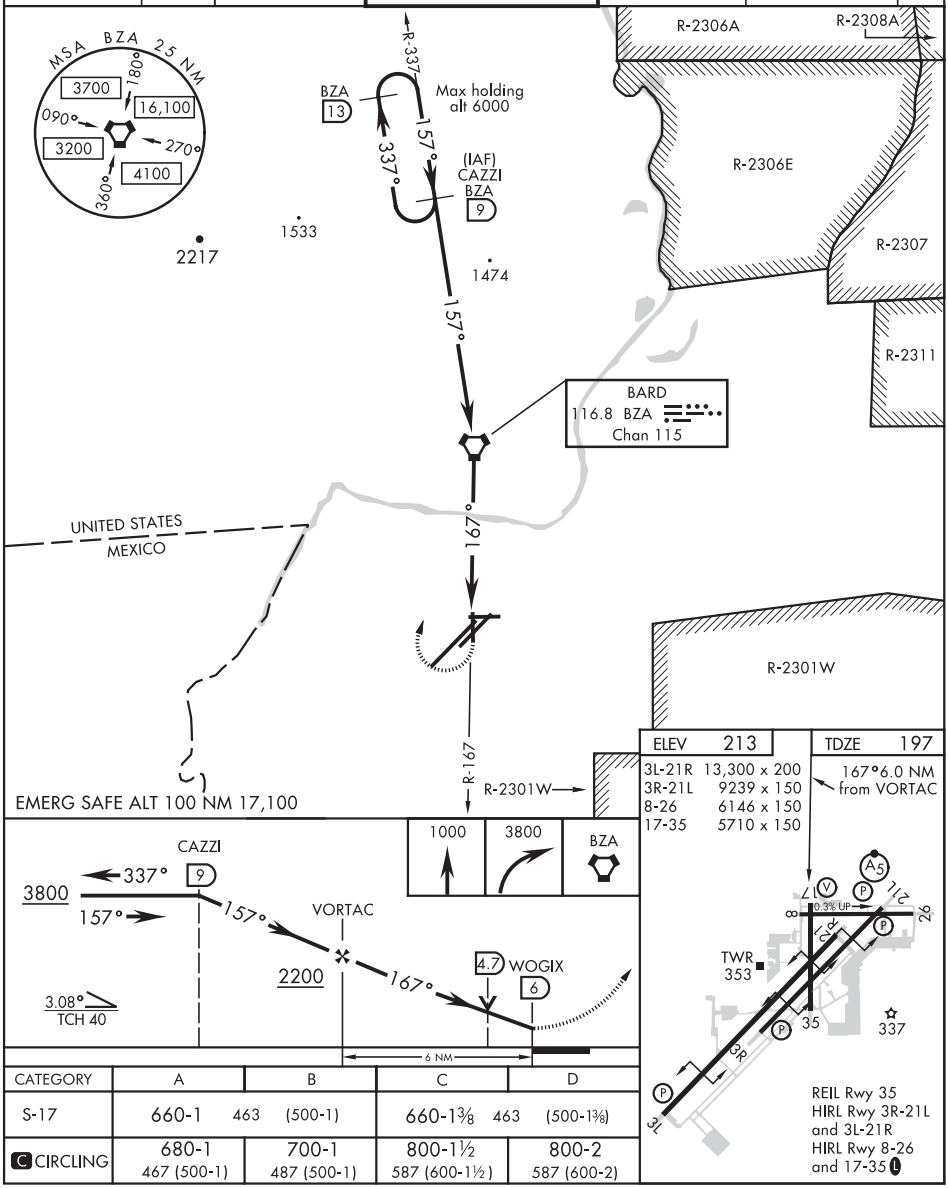
VORTAC BZA 116.8 Chan 115	APCH CRS 167°	Rwy ldg 5710 TDZE 197 Arpt Elev 213

AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)

MISSED APPROACH: Climb to 1000, then climbing right turn to 3800 direct BZA VORTAC and BZA R-337 to CAZZI and hold.

ATIS★	ASOS	YUMA APP CON	YUMA TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) L 377.075	121.9 314.0	118.0 336.4	



CATEGORY	A	B	C	D
S-17	660-1 463 (500-1)		660-1⅜ 463 (500-1⅜)	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA, ARIZONA

Amdt 4 24MAY18

32°39′N-114°36′W

YUMA MCAS/YUMA INTL (KNYL)

VOR/DME or TACAN RWY 17

18144

YUMA, ARIZONA

VOR RWY 17

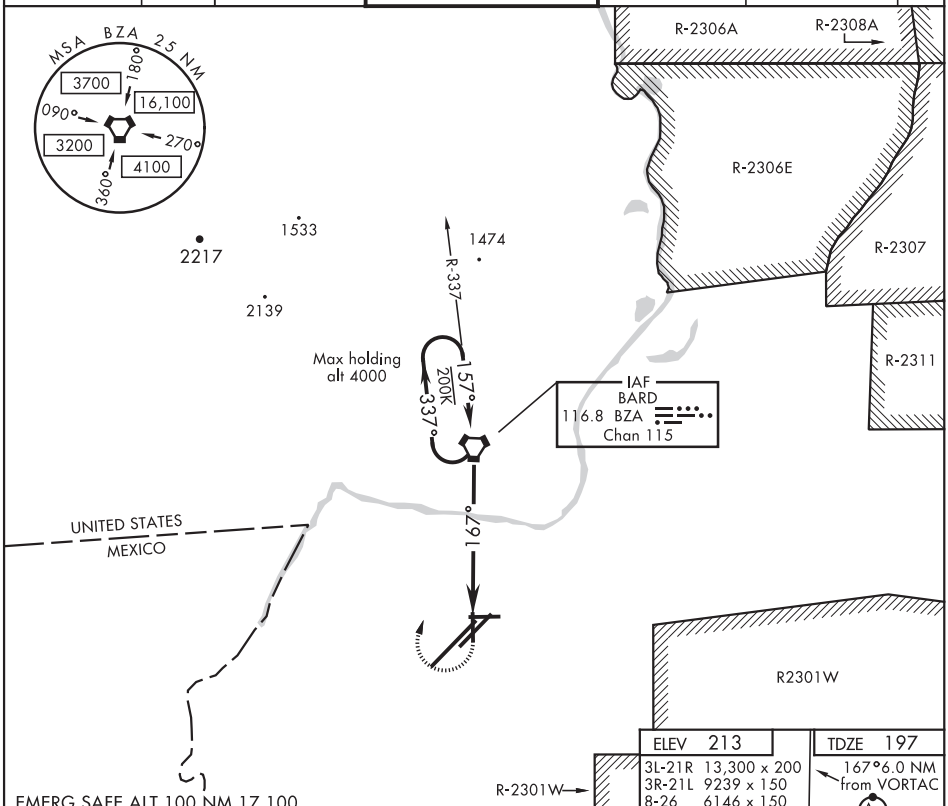
VORTAC BZA	APCH CRS	Rwy ldg 5710
116.8 Chan 115	167°	TDZE 197 Arpt Elev 213

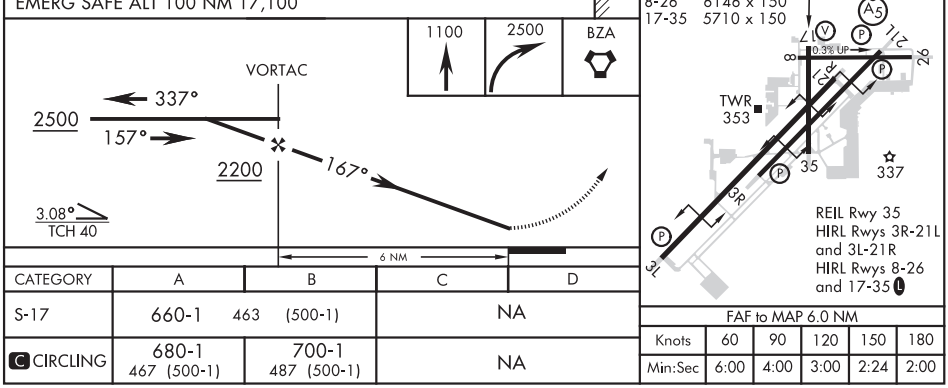
AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)

MISSED APPROACH: Climb to 1100, then climbing right turn to 2500 direct BZA VORTAC and hold.

ATIS★	ASOS	YUMA APP CON	YUMA TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) L 377.075	121.9 314.0	118.0 336.4	





CATEGORY	A	B	C	D
S-17	660-1 463 (500-1)		NA	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	NA	

FAF to MAP 6.0 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

YUMA, ARIZONA

32° 39′N-114° 36′W

YUMA MCAS/YUMA INTL (KNYL)

Amdt 3 24MAY18

VOR RWY 17

18144

TACAN RWY 3L

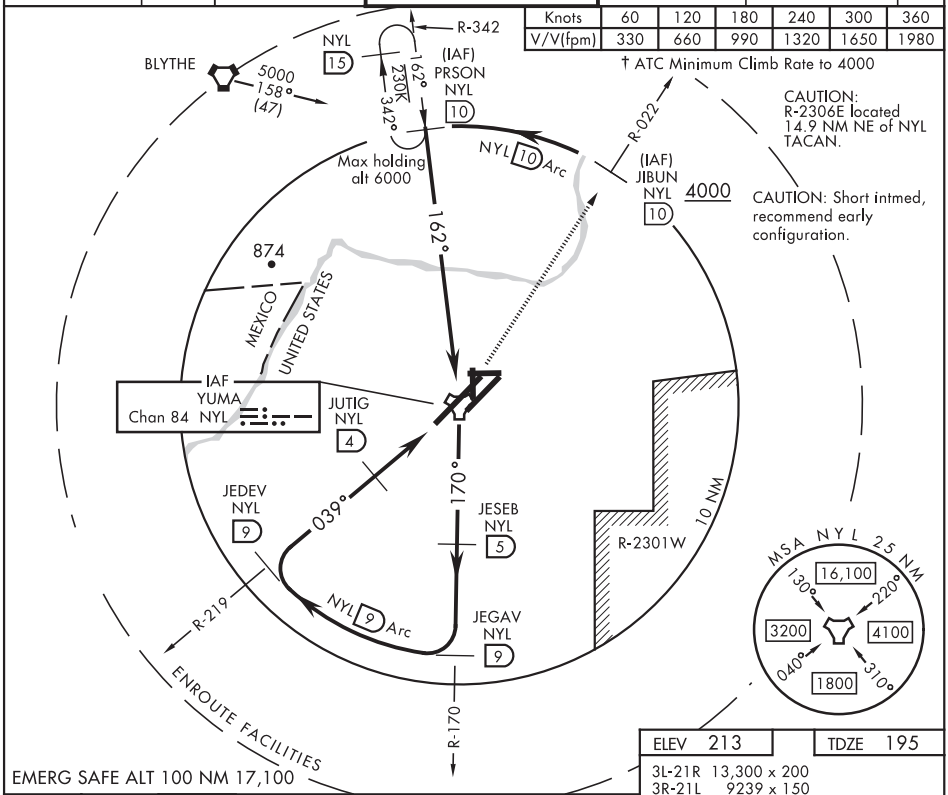
TACAN NYL Chan 84	APCH CRS 039°	Rwy ldg 13,300 TDZE 195 Arpt Elev 213	AL-511 [USN]	YUMA MCAS/YUMA INTL (KNYL)

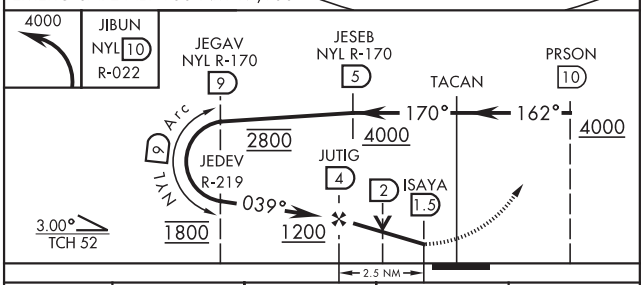
† MISSED APPROACH: Climbing left turn to 4000, intercept NYL TACAN R-022 to JIBUN, cross JIBUN at or above 4000.

ATIS★	ASOS	YUMA APP CON	YUMA TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) Ⓛ 377.075	121.9 314.0	118.0 336.4	

Knots	60	120	180	240	300	360
V/V(fpm)	330	660	990	1320	1650	1980

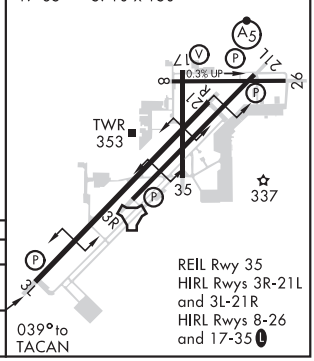
† ATC Minimum Climb Rate to 4000





CATEGORY	A	B	C	D
S-3L	560-1 365 (400-1)			
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

ELEV 213	TDZE 195
3L-21R	13,300 x 200
3R-21L	9239 x 150
8-26	6146 x 150
17-35	5710 x 150



REIL Rwy 35
HIRL Rwys 3R-21L
and 3L-21R
HIRL Rwys 8-26
and 17-35 Ⓛ

SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

19171

YUMA, ARIZONA

TACAN RWY 21R

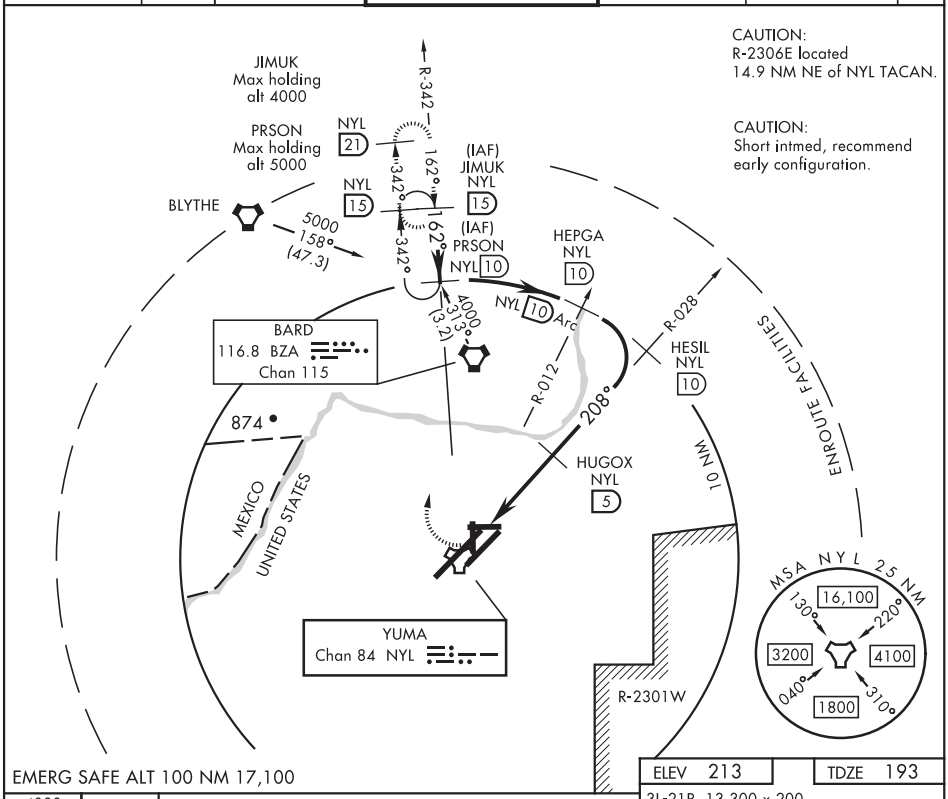
TACAN NYL Chan 84	APCH CRS 208°	Rwy ldg 13,300 TDZE 193 Arpt Elev 213	AL-511 [USN]	YUMA MCAS/YUMA INTL (KNYL)

* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅜ miles.

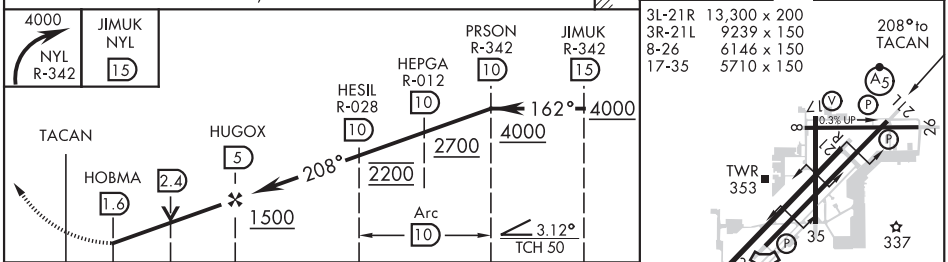
MALSR A5

MISSED APPROACH: Climbing right turn to 4000 intercept NYL TACAN R-342 to JIMUK and hold, continue climb-in-hold to 4000.

ATIS★	ASOS	YUMA APP CON	YUMA TOWER★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) L 377.075	121.9 314.0	118.0 336.4	

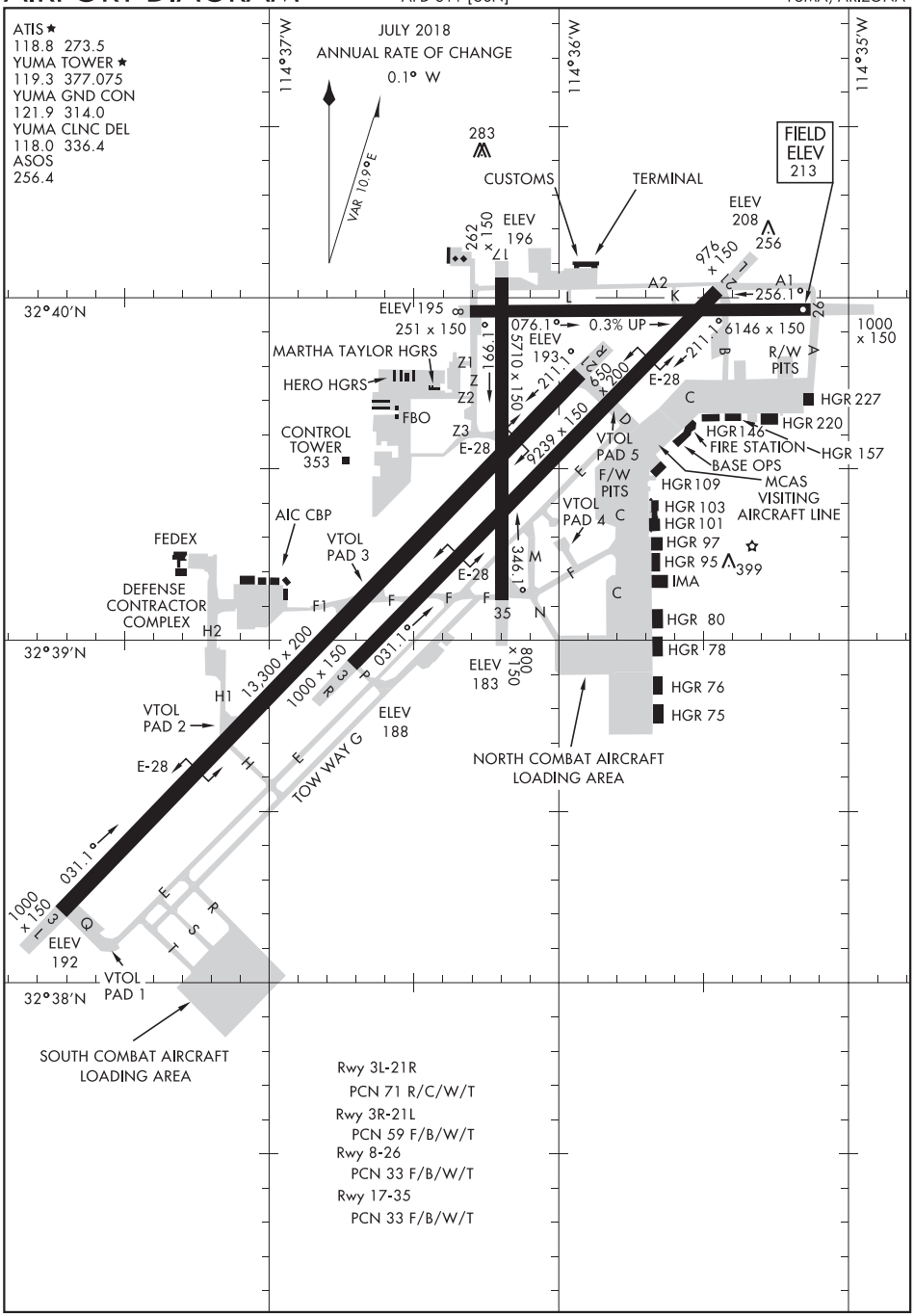


ELEV 213	TDZE 193
3L-21R	13,300 x 200
3R-21L	9239 x 150
8-26	6146 x 150
17-35	5710 x 150



CATEGORY	A	B	C	D
S-21R *	640-½ 447 (500-½)		640- ⅞ 447 (500-⅞)	
C CIRCLING	680-1 467 (500-1)	700-1 487 (500-1)	800-1½ 587 (600-1½)	800-2 587 (600-2)

SW-4, 05 NOV 2020 to 31 DEC 2020



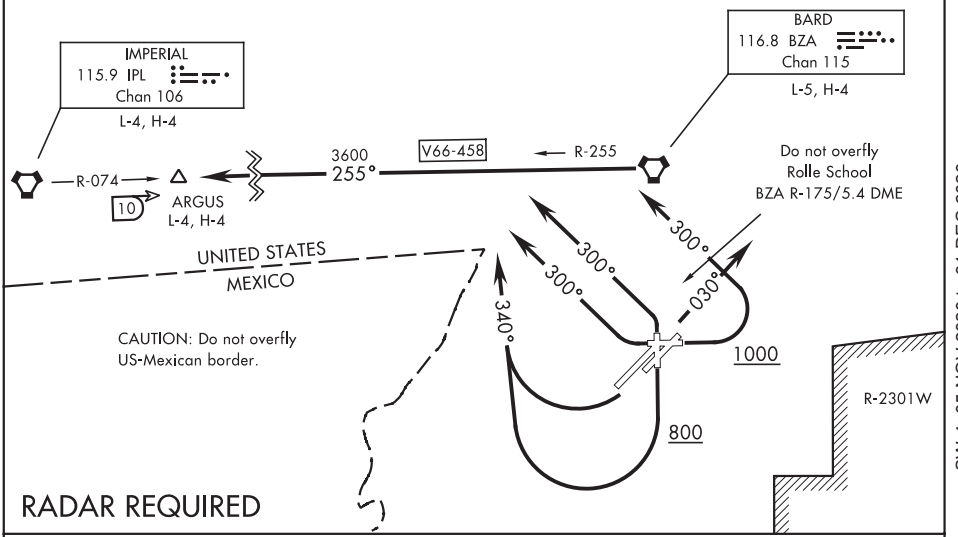
SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

ARGUS FOUR DEPARTURE (ARGUS4•ARGUS)

ATIS ★
118.8 273.5
CLNC DEL
118.0 336.4
GND CON
121.9 314.0
YUMA TOWER ★
119.3 377.075
YUMA DEP CON
125.55 282.325
ASOS
256.4

SHL-511 [USN]



RADAR REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb heading 030°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 8: Climb heading 078° to 1000, then climbing left turn heading 300°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 17: Climb heading 168° to 800, then climbing right turn heading 340°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 21L/R: Climbing right turn heading 340°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 26: Climbing right turn heading 300°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 35: Climbing left turn heading 300°, then RADAR vectors to intercept BZA VORTAC R-255. Thence...

...via BZA R-255 to ARGUS, then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

CARGO NINE DEPARTURE (CARGO9•CARGO)

YUMA MCAS/YUMA INTL (KNYL)
YUMA, ARIZONA

ATIS ★
118.8 273.5
CLNC DEL
118.0 336.4
GND CON
121.9 314.0
YUMA TOWER ★
119.3 377.075
YUMA DEP CON
125.55 282.325
ASOS
256.4

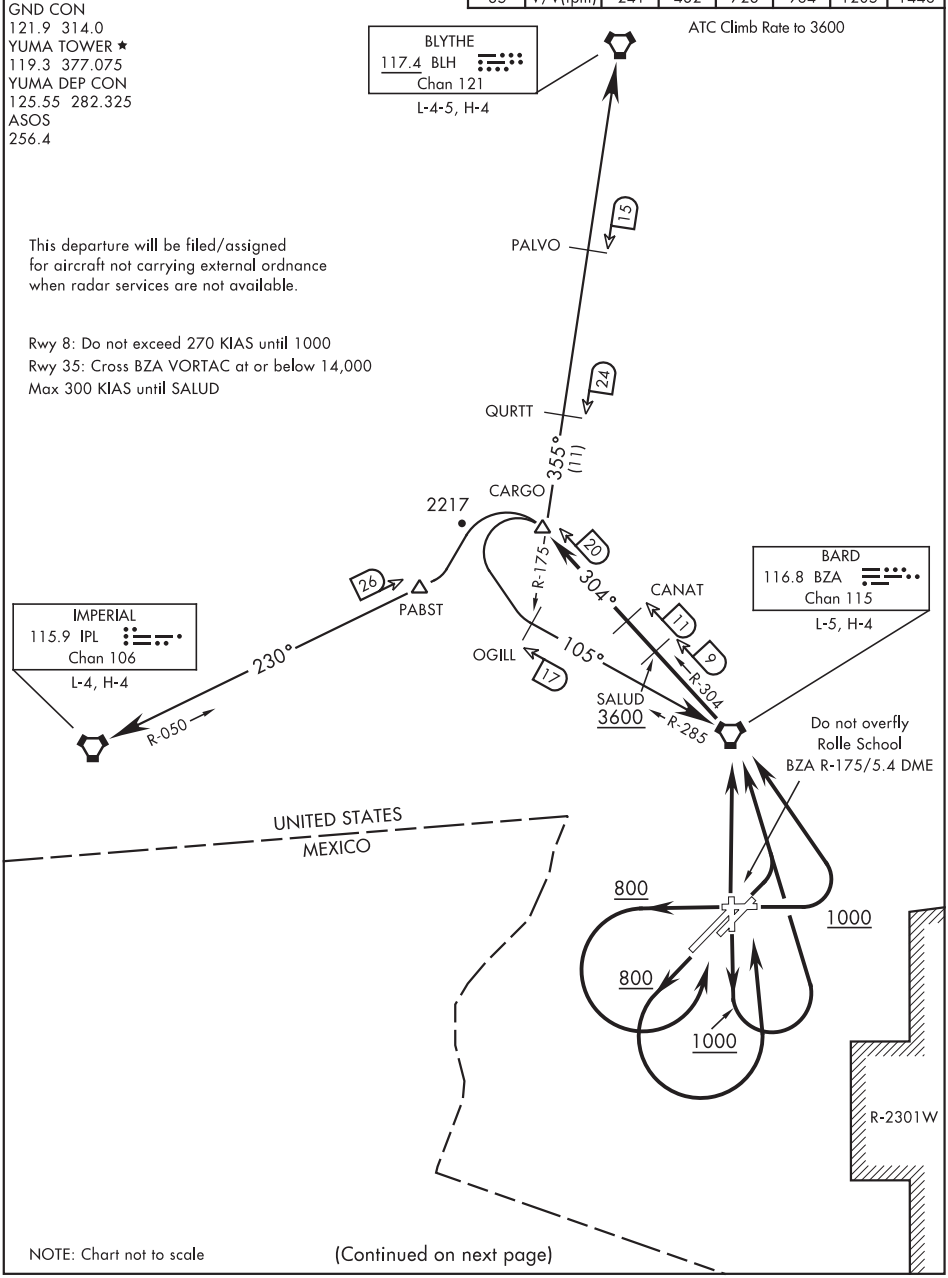
SHL-511 [USN]

Rwy	Knots	60	120	180	240	300	360
3L/R	V/V(fpm)	225	450	675	900	1125	1350
26	V/V(fpm)	210	420	630	840	1050	1260
35	V/V(fpm)	241	482	723	964	1205	1446

ATC Climb Rate to 3600

This departure will be filed/assigned for aircraft not carrying external ordnance when radar services are not available.

Rwy 8: Do not exceed 270 KIAS until 1000
Rwy 35: Cross BZA VORTAC at or below 14,000
Max 300 KIAS until SALUD



NOTE: Chart not to scale

(Continued on next page)

CARGO NINE DEPARTURE (CARGO9•CARGO)

Orig 24MAY18

YUMA, ARIZONA
YUMA MCAS/YUMA INTL (KNYL)

SW-4, 05 NOV 2020 to 31 DEC 2020

SHL-511 [USN]

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climbing left turn to intercept BZA VORTAC R-304 to CARGO. Cross SALUD at or above 3600. Thence...

TAKE-OFF RWY 8: Climb to 1000, then climbing left turn direct BZA VORTAC. Then via BZA R-304 to CARGO. Do not exceed 270 KIAS to 1000. Cross SALUD at or above 3600. Thence...

TAKE-OFF RWY 17: Climb to 1000, then climbing left turn direct BZA VORTAC. Then, via BZA R-304 to CARGO. Cross SALUD at or above 3600. Thence...

TAKE-OFF RWY 21L/R, 26: Climb to 800, then climbing left turn direct BZA VORTAC. Then via BZA R-304 to CARGO. Cross SALUD at or above 3600. Thence...

TAKE-OFF RWY 35: Climb direct BZA VORTAC, then via BZA R-304 to CARGO. Cross BZA VORTAC at or below 14,000. Do not exceed 300 KIAS in turn at BZA VORTAC. Cross SALUD at or above 3600. Thence...

BARD TRANSITION (CARGO9•BZA): At CARGO, turn left to intercept BZA VORTAC R-285 to BZA.

BLYTHE TRANSITION (CARGO9•BLH): At CARGO, turn right to intercept BLH VORTAC R-175 to BLH.

IMPERIAL TRANSITION (CARGO9•IPL): At CARGO, turn left to intercept IPL VORTAC R-050 to IPL.

Then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

HEEDS TWO DEPARTURE (HEEDS2•HEEDS)

SHL-511 [USN] YUMA, ARIZONA

ATIS ★
118.8 273.5
CLNC DEL
118.0 336.4
GND CON
121.9 314.0
YUMA TOWER ★
119.3 377.075
YUMA DEP CON
125.55 282.325
ASOS
256.4

Rwy	Knots	60	120	180	240	300	360
3L/R	V/V(fpm)	313	626	939	1252	1565	1878
8, 17, 21L/R, 26	V/V(fpm)	291	582	873	1164	1455	1746
35	V/V(fpm)	328	656	984	1312	1640	1968

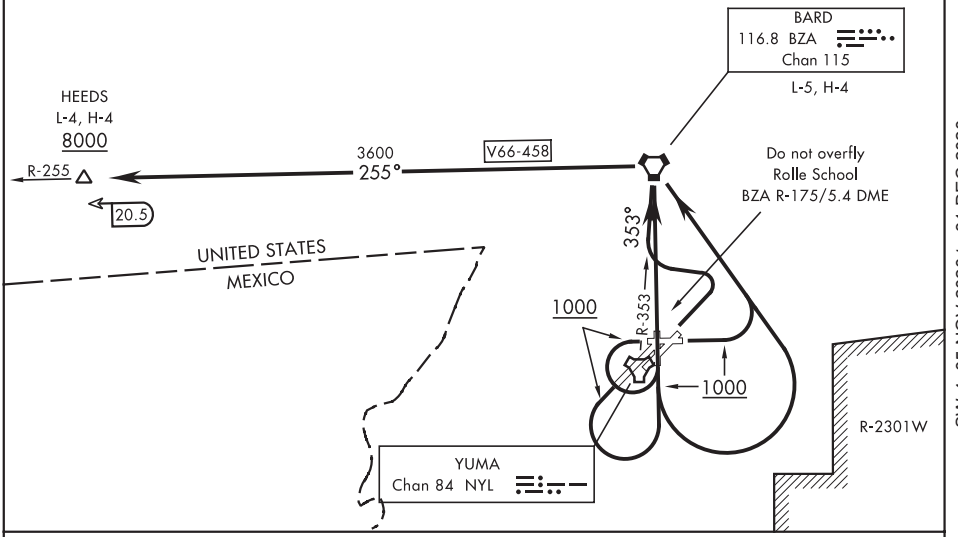
ATC Climb Rate to 8000

2663

Runway 3L/R: Do not exceed 250 KIAS until intercepting NYL R-353. Cross BZA VORTAC at or below 9000.

Runway 8: Do not exceed 270 KIAS until 1000.

Runway 35: Cross BZA VORTAC at or below 14,000.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climbing left turn to 8000 to intercept NYL TACAN R-353 to BZA VORTAC and via BZA R-255 to HEEDS. Do not exceed 250 KIAS until intercepting NYL R-353. Cross BZA VORTAC at or below 9000. Cross HEEDS at or above 8000.

TAKE-OFF RWY 8: Climb to 1000, then climbing left turn direct BZA VORTAC, then via BZA R-255 to HEEDS. Do not exceed 270 KIAS until 1000. Cross HEEDS at or above 8000.

TAKE-OFF RWY 17, 21L/R, 26: Climb to 1000, then climbing left turn direct BZA VORTAC, then via BZA R-255 to HEEDS. Cross HEEDS at or above 8000.

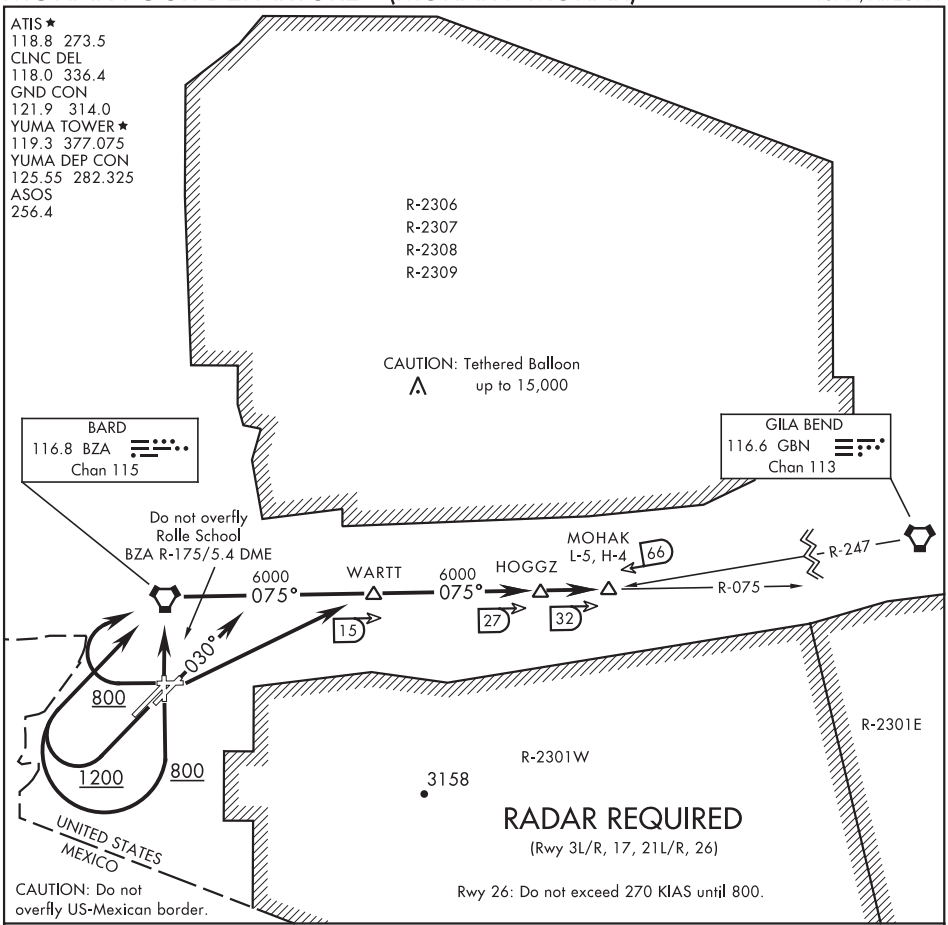
TAKE-OFF RWY 35: Climb to 8000 direct BZA VORTAC and via BZA R-255 to HEEDS. Cross BZA VORTAC at or below 14,000. Cross HEEDS at or above 8000.

Then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

MOHAK FOUR DEPARTURE (MOHAK4•MOHAK)

YUMA, ARIZONA



SW-4, 05 NOV 2020 to 31 DEC 2020

SW-4, 05 NOV 2020 to 31 DEC 2020

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb hdg 030°, then RADAR vectors to intercept BZA VORTAC R-075. Thence...

TAKE-OFF RWY 8: Climbing left turn direct WARTT. Thence...

TAKE-OFF RWY 17: Climb to 800, then climbing right turn direct BZA VORTAC. Thence...

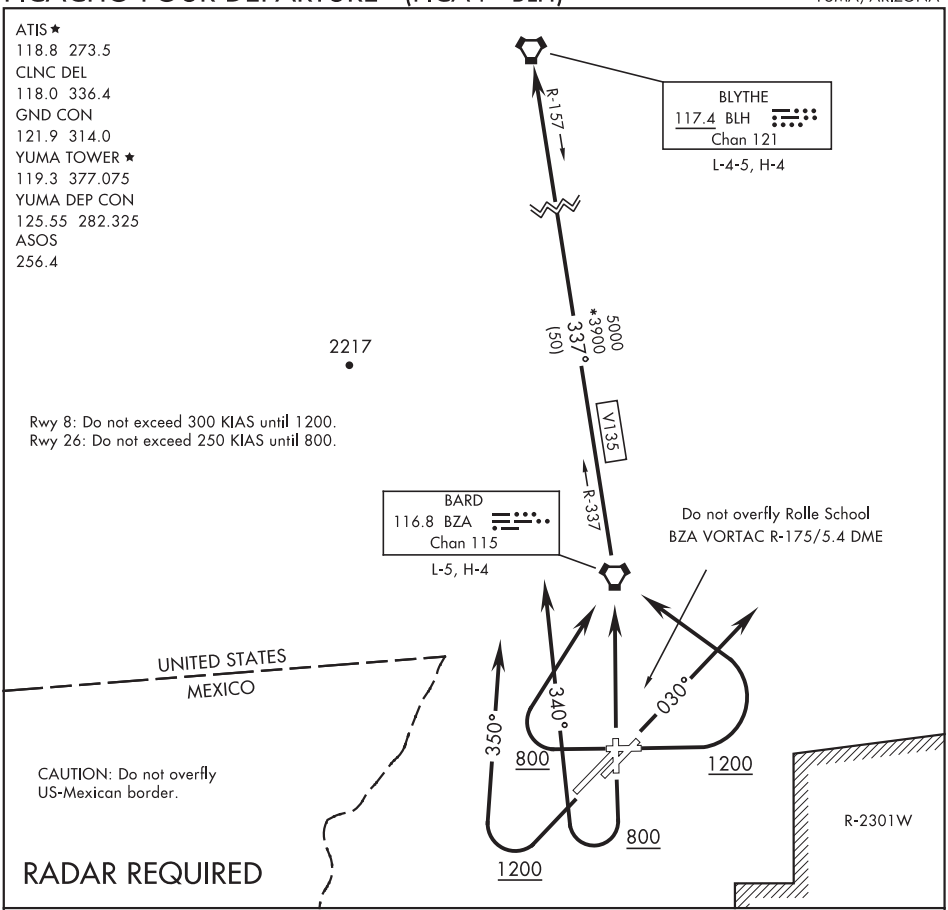
TAKE-OFF RWY 21L/R: Climb to 1200, then climbing right turn direct BZA VORTAC. Thence...

TAKE-OFF RWY 26: Climb to 800, then climbing right turn direct BZA VORTAC. Do not exceed 270 KIAS until 800.

TAKE-OFF RWY 35: Climb direct BZA VORTAC. Thence....

....via BZA R-075 to MOHAK INT via HOGGZ INT. Then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

PICACHO FOUR DEPARTURE (PICA4 • BLH)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Climb on hdg 030°, then radar vectors to intercept BZA VORTAC R-337. Thence...

TAKE-OFF RWY 8: Climb to 1200, then climbing left turn direct BZA VORTAC. Do not exceed 300 KIAS until 1200. Thence...

TAKE-OFF RWY 17: Climb to 800, then climbing right turn hdg 340° to intercept BZA VORTAC R-337. Thence...

TAKE-OFF RWY 21L/R: Climb to 1200, then climbing right turn hdg 350° to intercept BZA VORTAC R-337. Thence...

TAKE-OFF RWY 26: Climb to 800, then climbing right turn direct BZA VORTAC. Do not exceed 250 KIAS until 800. Thence...

TAKE-OFF RWY 35: Climb direct BZA VORTAC, thence...

...via BZA R-337 and BLH VORTAC R-157 to BLH, then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

SW-4, 05 NOV 2020 to 31 DEC 2020
SW-4, 05 NOV 2020 to 31 DEC 2020

INTENTIONALLY

LEFT

BLANK

SW-4, 05 NOV 2020 to 31 DEC 2020

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE

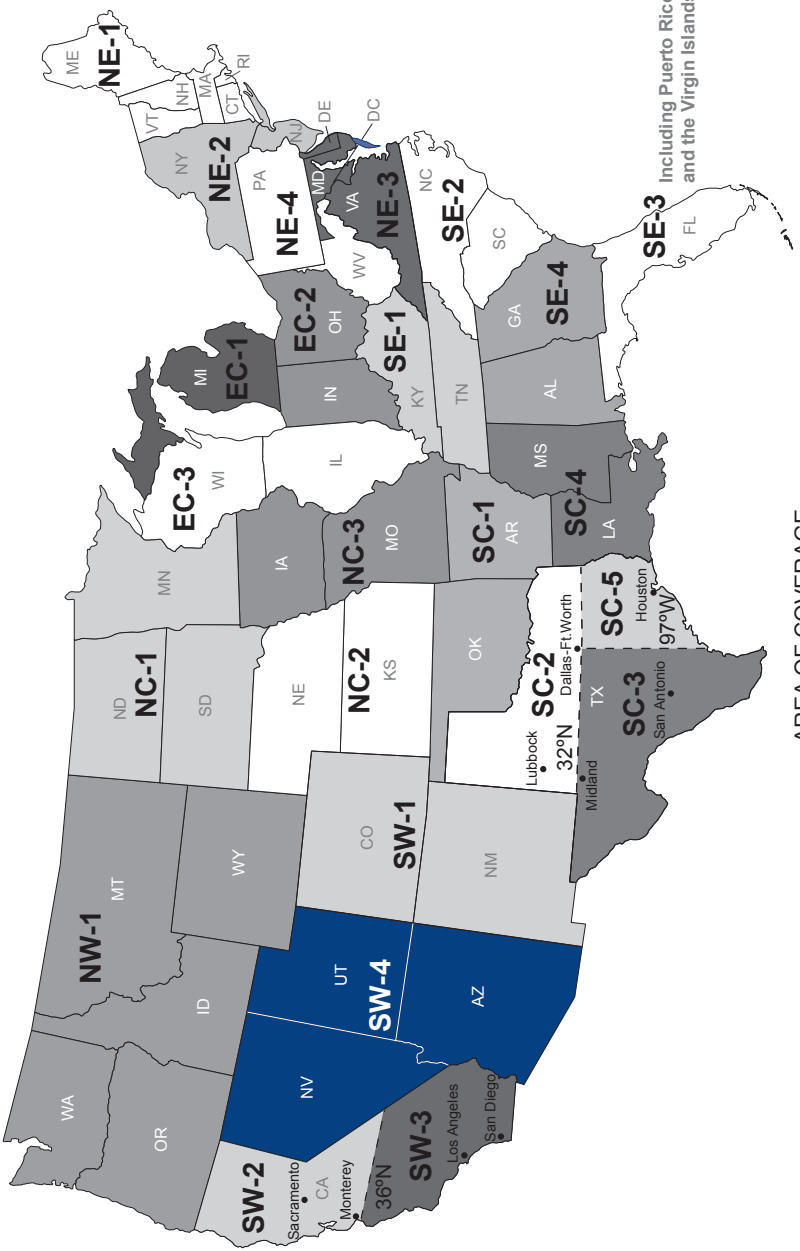
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275
2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590
VERTICAL PATH ANGLE 2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230
4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550
4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870
5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190
5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510
6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830
6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155
7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125
8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450
9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775
9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100
10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430

CLIMB/DESCENT TABLE 10042

U.S. TERMINAL PUBLICATION VOLUMES



FAA Product ID: BTPPSW4

NSN 7641015059600

NGA REF. NO. OK-10-2859

TERMXFAABTPPSW4

EFF. DATE 20310