

SW-4

AZ NV UT

10 NOV 16 to 05 JAN 17



Federal Aviation
Administration

TM

U.S. Terminal Procedures Publication

Southwest (SW) Vol 4 of 4

Effective: 0901Z

10 NOV 2016

to: 0901Z

05 JAN 2017

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



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
Cartographic 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
Customer Operations Team
1305 East-West Highway
SSMC 4, Suite 4400
Silver Spring, MD 20910-3281
Telephone 1-800-638-8972
Email 9-AMC-Aerochart@faa.gov

FOR PROCUREMENT:

For a list of approved FAA Print Providers,
visit our website at [http://www.faa.gov/
air_traffic/flight_info/aeronav/print_providers/](http://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/)
For digital products, visit
[http://www.faa.gov/air_traffic/flight_info/
aeronav/digital_products/](http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/)

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

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

INOP COMPONENTS

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE

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

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

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

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

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

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

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

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

(4) NDB

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

TERMS/LANDING MINIMA DATA

IFR LANDING MINIMA

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

LANDING MINIMA FORMAT

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

CATEGORY	A		B	C	D
	DA	Visibility (RVR 100's of feet)	Aircraft Approach Category	HAT/HATH	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)	MDA	1640-1 461 (500-1)	1640-1½ 461 (500-1½)	1740-2 561 (600-2)

Labels: DA, Visibility (RVR 100's of feet), Aircraft Approach Category, HAT/HATH, D, MDA, HAA, Visibility in Statute Miles.

Annotations: 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.

COPTER MINIMA ONLY

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

Labels: 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 RESTRICTED AIRPORTS

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

COLD TEMPERATURE ERROR TABLE

HEIGHT ABOVE AIRPORT IN FEET

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

AIRCRAFT APPROACH CATEGORIES

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

MANEUVERING TABLE

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

TERMS/LANDING MINIMA DATA

TERMS/LANDING MINIMA DATA

CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

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

STANDARD CIRCLING APPROACH MANEUVERING RADIUS

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

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

C EXPANDED CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

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

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

Comparable Values of RVR and Visibility

The following table shall be used for converting RVR to ground or flight visibility. For converting RVR values that fall between listed values, use the next higher RVR value; do not interpolate. For example, when converting 1800 RVR, use 2400 RVR with the resultant visibility of ½ mile.

RVR (feet)	Visibility (statute miles)	RVR (feet)	Visibility (statute miles)
1600	¼	4500	⅝
2400	½	5000	1
3200	⅝	6000	1¼
4000	¾		

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	195/16	100	(100-¼)				
	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 in Statute Miles ↙

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

Radars Minima:

1. Minima shown are the lowest permitted by established criteria. Pilots should consult applicable directives for their category of aircraft.
2. The circling MDA and weather minima to be used are those for the runway to which the final approach is flown- not the landing runway. In the above RADAR MINIMA example, a category C aircraft flying a radar approach to runway 10, circling to land on runway 28, must use an MDA of 560 feet with weather minima of 500-1½.

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".

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

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

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

TERMS/LANDING MINIMA DATA

GENERAL INFO

GENERAL INFORMATION

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

STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

The use of the associated codified STAR/DP and transition identifiers are requested of users when filing flight plans via teletype and are required for users filing flight plans via computer interface. It must be noted that when filing a STAR/DP with a transition, the first three coded characters of the STAR and the last three coded characters of the DP are replaced by the transition code. Examples: ACTON SIX ARRIVAL, file (AQN.AQN6); ACTON SIX ARRIVAL, EDNAS TRANSITION, file (EDNAS.AQN6). FREEHOLD THREE DEPARTURE, file (FREH3.RBV), FREEHOLD THREE DEPARTURE, ELWOOD CITY TRANSITION, file (FREH3.EWC).

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

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

Standard RNAV 1 Procedure Chart Notes

NOTE: RNAV 1

NOTE: DME/DME/IRU or GPS required

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

RNAV 1 Procedure Characteristics and Operations

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

GENERAL INFO

GENERAL INFO

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

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

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

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

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

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

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



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

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

MISCELLANEOUS

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

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

GENERAL INFO

GENERAL INFO

ABBREVIATIONS

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

GENERAL INFO

GENERAL INFO

ABBREVIATIONS

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

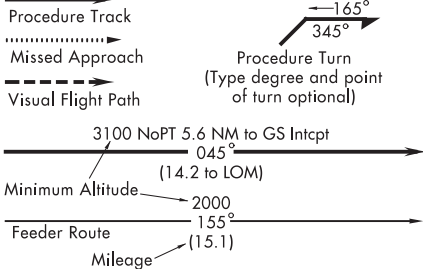
GENERAL INFO

LEGEND

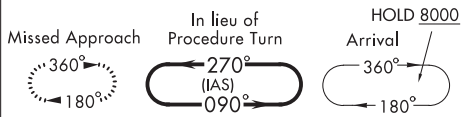
INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES

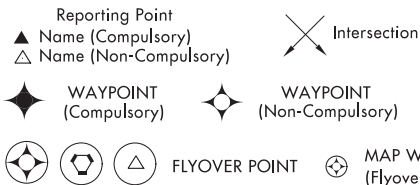


HOLDING PATTERNS

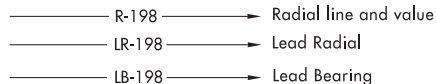


Holding pattern with max. restricted airspeed: (175K) applies to all altitudes. (210K) applies to altitudes above 6000' and including 14000'. Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg. Limits will only be specified when they deviate from the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

FIXES/ATC REPORTING REQUIREMENTS



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



ALTITUDES

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

INDICATED AIRSPEED

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

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

Compulsory:



Non-Compulsory:



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

Marker Beacon

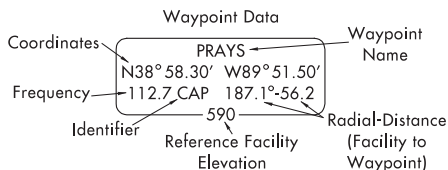
Marker beacons that are not specifically part of the procedure but underlie the final approach course are shown in screened color.

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

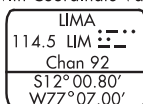
SDF Course

LOC/DME

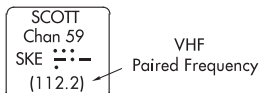
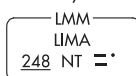
LOC/LDA/SDF Transmitter
(shown when installation is offset from its normal position off the end of the runway.)



Primary Navaid with Coordinate Values



Secondary Navaid



LEGEND

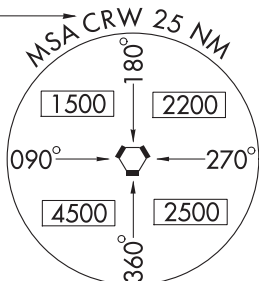
LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

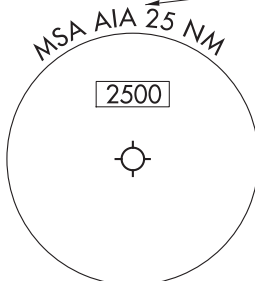
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)

Facility Identifier

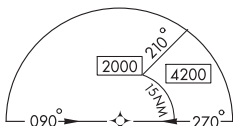


Airport Identifier

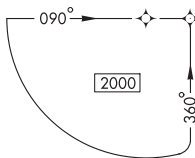


(arrows on distance circle identify sectors)

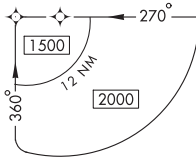
TERMINAL ARRIVAL AREA (TAA)



Straight-in Area

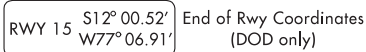


Right Base Area



Left Base Area

MISCELLANEOUS



AIRPORTS



SPECIAL USE AIRSPACE



R-Restricted

P-Prohibited

W-Warning

A-Alert

OBSTACLES



LEGEND

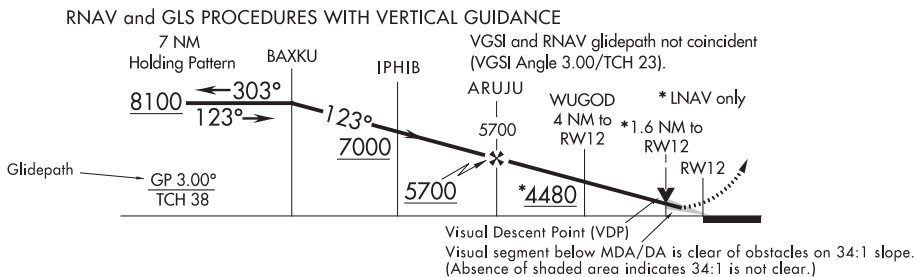
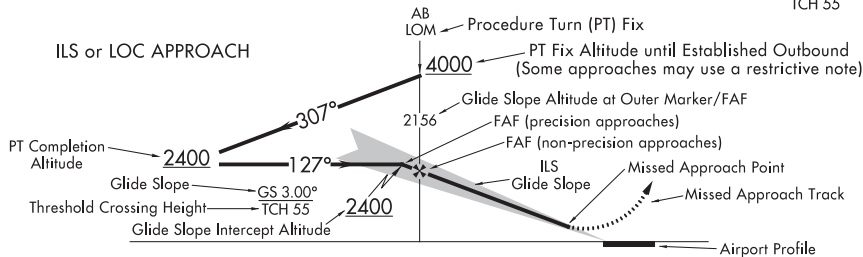
PROFILE VIEW

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

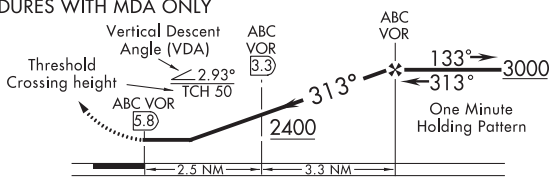
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: $GS\ 3.00^\circ$. TCH 55

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

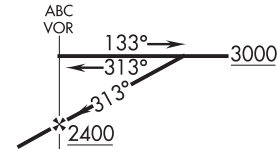
3. An advisory vertical descent angle (VDA) is provided on non-vertically guided conventional procedures and RNAV procedures with only a minimum descent altitude (MDA) to assist in preventing controlled flight into terrain. On Civil (FAA) procedures, this information is placed above or below the procedure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



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



DESCENT FROM HOLDING PATTERN



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

PROFILE SYMBOLS	
	Visual Flight Path
	Note: Facilities and waypoints are depicted as a solid vertical line while fixes and intersections are depicted as a dashed vertical line.

LEGEND

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

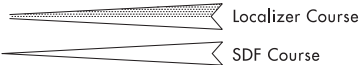
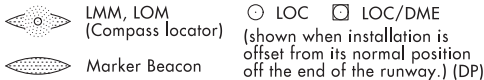
Applies to both STAR and DP Charts unless otherwise noted.

RADIO AIDS TO NAVIGATION

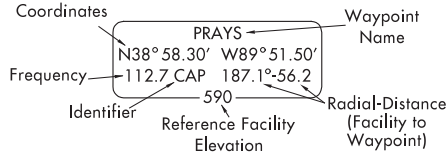
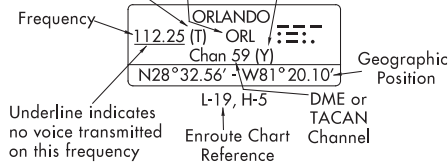
Compulsory:



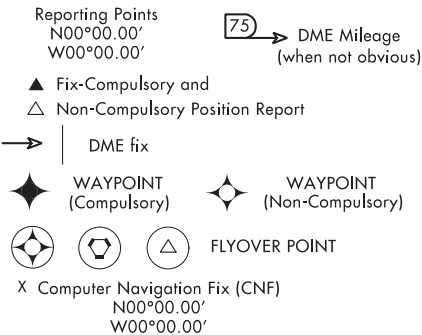
Non-Compulsory:



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

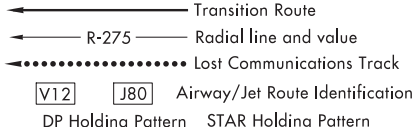


FIXES/ATC REPORTING REQUIREMENTS



ROUTES

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

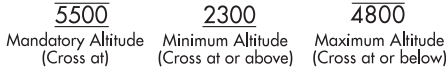


Holding pattern with max. restricted airspeed (175K) applies to all altitudes
 (210K) applies to altitudes above 6000' to and including 14000'

SPECIAL USE AIRSPACE



ALTITUDES



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

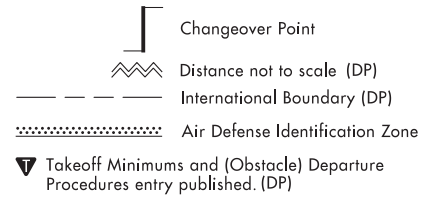
INDICATED AIRSPEED



AIRPORTS



MISCELLANEOUS



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

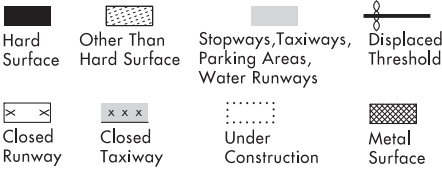
LEGEND

LEGEND

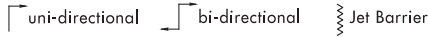
INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

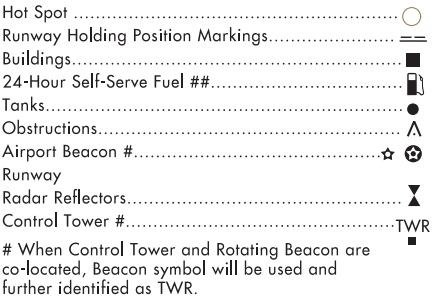


ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.




ARRESTING SYSTEM  (EMAS)

REFERENCE FEATURES



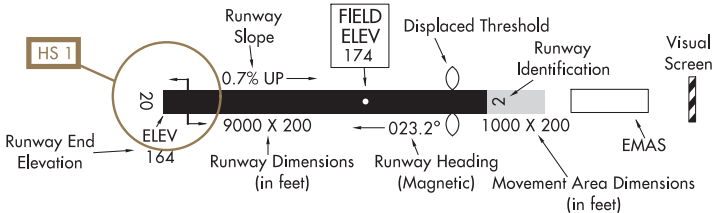
A fuel symbol is shown to indicate 24-hour self-serve fuel available, see appropriate Chart Supplement for information.

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

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











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

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



SCOPE


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

Helicopter Alighting Areas     
 Negative Symbols used to identify Copter Procedures landing point.....     

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

NOTE:

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

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

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or 1/2 minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

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

NOTE:

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LEGEND

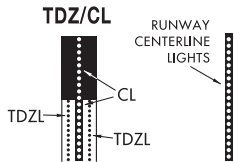
15344
LEGEND

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

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

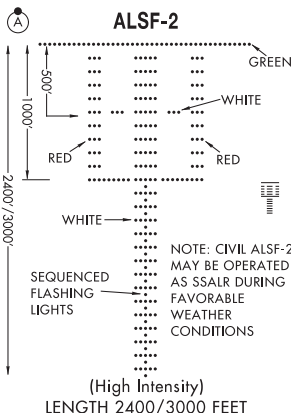
A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1). Negative symbology, e.g., (A3), (V) indicates Pilot Controlled Lighting (PCL).

RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS

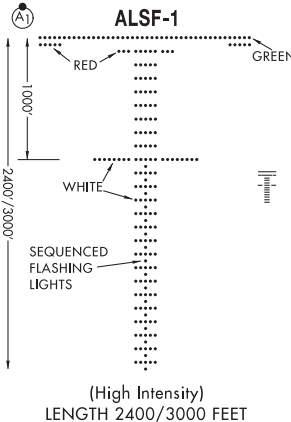


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

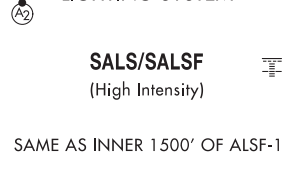
APPROACH LIGHTING SYSTEM



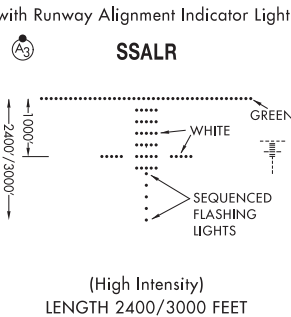
APPROACH LIGHTING SYSTEM



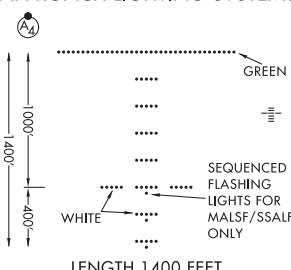
SHORT APPROACH LIGHTING SYSTEM



SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights



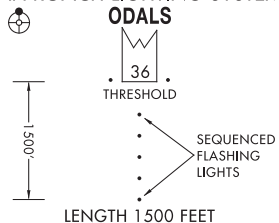
MEDIUM INTENSITY (MALS and MALSF) OR SIMPLIFIED SHORT (SSALS and SSALF) APPROACH LIGHTING SYSTEMS



MEDIUM INTENSITY APPROACH LIGHTING SYSTEM with Runway Alignment Indicator Lights



OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

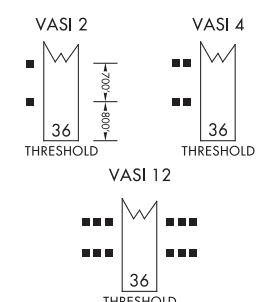


VISUAL APPROACH SLOPE INDICATOR

VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

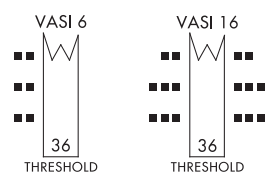
ALL LIGHTS WHITE — TOO HIGH
FAR LIGHTS RED — ON GLIDE SLOPE
NEAR LIGHTS WHITE — TOO LOW
ALL LIGHTS RED — TOO LOW



VISUAL APPROACH SLOPE INDICATOR

VASI

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



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LEGEND

04330
LEGEND

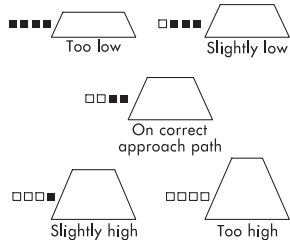
INSTRUMENT APPROACH PROCEDURES (CHARTS)
APPROACH LIGHTING SYSTEM - UNITED STATES

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

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

(P) **PRECISION APPROACH PATH INDICATOR**

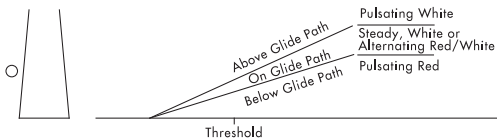
PAPI



Legend: □ White ■ Red

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

PVASI



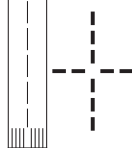
CAUTION: When viewing the pulsating visual approach slope indicators in the pulsating white or pulsating red sectors, it is possible to mistake this lighting aid for another aircraft or a ground vehicle. Pilots should exercise caution when using this type of system.

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

"T"-VASI

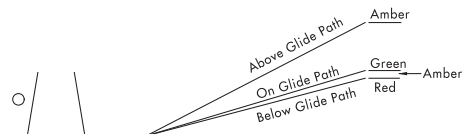


"T" ON BOTH SIDES OF RWY
ALL LIGHTS VARIABLE WHITE.
CORRECT APPROACH SLOPE-
ONLY CROSS BAR VISIBLE.
UPRIGHT "T"- FLY UP.
INVERTED "T"- FLY DOWN.
RED "T"- GROSS
UNDERSHOOT.



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

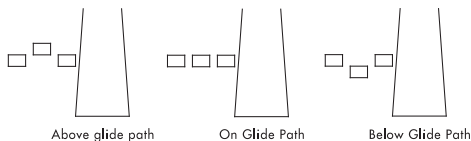
TRCV



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

(V₅) **ALIGNMENT OF ELEMENTS SYSTEMS**

APAP



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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LEGEND

FREQ PAIRING

FREQUENCY PAIRING TABLE

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FREQ PAIRING

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
AVI SUQUILLA			CARSON CITY, NV		
---SEE PARKER, AZ			CARSON(CXP)		
BATTLE MOUNTAIN, NV			TAKEOFF MINIMUMSL		
BATTLE MOUNTAIN(BAM)			IAPS RNAV (GPS) RWY 2713		
TAKEOFF MINIMUMSL			RNAV (GPS)-A14		
IAPS RNAV (GPS) RWY 031			DPS JIMPA TWO (OBSTACLE) (RNAV)15		
VOR/DME RWY 032			CASA GRANDE, AZ		
BEAVER, UT			CASA GRANDE MUNI(CGZ)		
BEAVER MUNI(U52)			TAKEOFF MINIMUMSL		
TAKEOFF MINIMUMSL			IAPS ILS OR LOC/DME RWY 0516		
IAPS RNAV (GPS)-A3			GPS RWY 0517		
BISBEE-DOUGLAS INTL			VOR RWY 0518		
---SEE DOUGLAS-BISBEE, AZ			CEDAR CITY, UT		
BLANDING, UT			CEDAR CITY RGNL(CDC)		
BLANDING MUNI(BDG)			TAKEOFF MINIMUMSL		
TAKEOFF MINIMUMSL			ALTERNATE MINIMUMSM		
IAPS RNAV (GPS) RWY 354			IAPS ILS OR LOC RWY 2019		
BOLINDER FIELD-TOOELE VALLEY			RNAV (GPS) RWY 2020		
---SEE TOOELE, UT			VOR RWY 2021		
BOULDER CITY, NV			AIRPORT DIAGRAM22		
BOULDER CITY MUNI(BVU)			CHANDLER, AZ		
STARS FUZZY SEVENZ28			CHANDLER MUNI(CHD)		
LUXOR TWOZ52			TAKEOFF MINIMUMSL		
CLARR TWOZ16			DIVERSE VECTOR AREAL		
KADDY TWOZ44			HOT SPOTP		
BRIGHAM CITY, UT			STARS ARLIN THREEZ3		
BRIGHAM CITY(BMC)			BLYTHE FOURZ6		
TAKEOFF MINIMUMSL			DSERT TWO (RNAV)Z22		
IAPS RNAV (GPS) RWY 355			HUUTY ONE (RNAV)Z34		
BRYCE CANYON, UT			JCOBS TWOZ40		
BRYCE CANYON(BCE)			SUNSS SEVENZ69		
TAKEOFF MINIMUMSL			IAPS RNAV (GPS) RWY 04R23		
ALTERNATE MINIMUMSM			VOR RWY 04R24		
IAPS RNAV (GPS) RWY 036			NDB RWY 04R25		
RNAV (GPS) RWY 217			AIRPORT DIAGRAM26		
DPS BRYCE TWO (OBSTACLE) (RNAV)8			DPS BNYRD FIVE (RNAV)27		
BULLHEAD CITY, AZ			FTHLS FIVE (RNAV)28		
LAUGHLIN/BULLHEAD INTL(IFP)			IZZCO FIVE (RNAV)29		
TAKEOFF MINIMUMSL			JUDTH FIVE (RNAV)30		
ALTERNATE MINIMUMSM			KATMN FIVE (RNAV)31		
IAPS RNAV (GPS) RWY 169			LALUZ FIVE (RNAV)32		
RNAV (GPS) RWY 3410			MAYSA FIVE (RNAV)33		
VOR/DME RWY 3411			SNOBL FIVE (RNAV)34		
AIRPORT DIAGRAM12			YOTES FIVE (RNAV)35		
CANYONLANDS FIELD			STELLAR AIRPARK(P19)		
---SEE MOAB, UT			TAKEOFF MINIMUMSL		
CARBON COUNTY RGNL/BUCK DAVIS FIELD			STARS ARLIN THREEZ3		
---SEE PRICE, UT			BLYTHE FOURZ6		
COCHISE COUNTY			SUNSS SEVENZ69		
---SEE WILLCOX, AZ			IAPS VOR OR GPS-A36		

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG NAME PROC SECT PG

FLAGSTAFF, AZ

FLAGSTAFF PULLIAM(FLG)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 IAPS ILS OR LOC/DME RWY 2185
 RNAV (GPS) RWY 0386
 RNAV (GPS) Y RWY 2187
 RNAV (GPS) Z RWY 2188
 RNAV (GPS)-B89
 VOR/DME RWY 2190
 VOR-A91
 AIRPORT DIAGRAM92

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF(FHU)
 TAKEOFF MINIMUMSL
 DIVERSE VECTOR AREAL
 ALTERNATE MINIMUMSM
 RADAR MINIMUMSN
 IAPS ILS OR LOC RWY 2693
 RNAV (GPS) RWY 0894
 RNAV (GPS) RWY 2695
 VOR RWY 2696
 TACAN RWY 0897
 TACAN RWY 2698
 NDB RWY 2699
 AIRPORT DIAGRAM100

GLENDALE, AZ

GLENDALE MUNI(GEU)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 HOT SPOTP
 STARS DSERT TWO (RNAV)Z22
 JCOBS TWOZ40
 SUNSS SEVENZ69
 IAPS RNAV (GPS) RWY 01101
 RNAV (GPS) RWY 19102
 AIRPORT DIAGRAM103
 DPS DRAKE TWO (OBSTACLE) (RNAV)104
 BNYRD FIVE (RNAV)105
 FTHLS FIVE (RNAV)106
 GLENDALE ONE107
 IZZZO FIVE (RNAV)108
 JUDTH FIVE (RNAV)109
 KATMN FIVE (RNAV)110
 LALUZ FIVE (RNAV)111
 MAYSA FIVE (RNAV)112
 SNOBL FIVE (RNAV)113
 YOTES FIVE (RNAV)114

GLOBE, AZ

SAN CARLOS APACHE(P13)
 TAKEOFF MINIMUMSL
 IAPS GPS RWY 27115
 DPS IZTIR TWO (OBSTACLE) (RNAV)116

GOODYEAR, AZ

PHOENIX GOODYEAR(GYR)
 TAKEOFF MINIMUMSL
 DIVERSE VECTOR AREAL
 STARS DSERT TWO (RNAV)Z22
 JCOBS TWOZ40
 SUNSS SEVENZ69
 IAPS RNAV (GPS) RWY 03117
 AIRPORT DIAGRAM118
 DPS POTER THREE (OBSTACLE) (RNAV)119
 BNYRD FIVE (RNAV)120
 FTHLS FIVE (RNAV)121
 GOODYEAR TWO122
 IZZZO FIVE (RNAV)123
 JUDTH FIVE (RNAV)124
 KATMN FIVE (RNAV)125
 LALUZ FIVE (RNAV)126
 MAYSA FIVE (RNAV)127
 SNOBL FIVE (RNAV)128
 YOTES FIVE (RNAV)129

GRAND CANYON, AZ

GRAND CANYON NATIONAL PARK(GCN)
 TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 HOT SPOTP
 IAPS ILS OR LOC/DME RWY 03130
 RNAV (GPS) RWY 03131
 VOR RWY 03132
 AIRPORT DIAGRAM133
 DPS GRAND THREE (OBSTACLE)134
 PARKS THREE135

VALLE(40G)

TAKEOFF MINIMUMSL
 ALTERNATE MINIMUMSM
 IAPS GPS RWY 01136
 GPS RWY 19137
 VOR/DME RWY 19138

GREENLEE COUNTY

---SEE CLIFTON/MORENCI, AZ

HEBER, UT

HEBER CITY MUNI-RUSS MCDONALD FIELD(36U)
 TAKEOFF MINIMUMSL
 IAPS RNAV (GPS)-A139
 DPS COOLI FOUR (RNAV)140

HENDERSON EXECUTIVE

---SEE LAS VEGAS, NV

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
HILL AFB(KHIF)			LAS VEGAS, NV		
OGDEN, UT			HENDERSON EXECUTIVE(HND)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
IAPS	ILS OR LOC RWY 14	141	ALTERNATE MINIMUMS		M
	ILS OR LOC Z RWY 14	142	HOT SPOT		P
	TACAN RWY 14	143	STARS	ADDEL ONE (RNAV)	Z1
AIRPORT DIAGRAM		144		CLARR TWO	Z16
DPS	DEVLN 1	145		FUZZY SEVEN	Z28
	FALCN ONE	146		JOMIX ONE (RNAV)	Z43
	FREMONT 1 (VECTOR)	147		KADDY TWO	Z44
	ILONN 1	148		KNGMN TWO (RNAV)	Z47
	WILLARD 1 (VECTOR)	149		LUXOR TWO	Z52
				NOOTN ONE (RNAV)	Z58
HUNTINGTON, UT			IAPS	RNAV (GPS)-B	166
HUNTINGTON MUNI(69V)				VOR-C	167
TAKEOFF MINIMUMS		L	AIRPORT DIAGRAM		168
IAPS	RNAV (GPS)-C	150	DPS	ACCIN THREE (RNAV)	169
	VOR/DME-B	151		FLAMZ THREE (RNAV)	170
				PALLY THREE (RNAV)	171
KANAB, UT			MC CARRAN INTL(LAS)		
KANAB MUNI(KNB)			TAKEOFF MINIMUMS		L
TAKEOFF MINIMUMS		L	ALTERNATE MINIMUMS		M
ALTERNATE MINIMUMS		M	HOT SPOT		P
IAPS	RNAV (GPS) RWY 01	152	STARS	CLARR TWO	Z16
DPS	KACIR TWO (RNAV)	153		CRESO THREE	Z19
				FUZZY SEVEN	Z28
				GRNPA ONE (RNAV)	Z32
				KADDY TWO	Z44
				KEPEC THREE (RNAV)	Z46
				LUXOR TWO	Z52
				SUNST THREE (RNAV)	Z70
				TYSSN FOUR (RNAV)	Z72
			IAPS	ILS OR LOC RWY 25L	172
				ILS OR LOC RWY 25R	173
				ILS OR LOC/DME RWY 01L	174
				RNAV (GPS) RWY 01R	175
				RNAV (GPS) RWY 19L	176
				RNAV (GPS) RWY 19R	177
				VOR/DME-A	178
				VOR RWY 25L/R	179
			AIRPORT DIAGRAM		180
			DPS	BOACH SIX (RNAV)	181
				COWBY SIX (RNAV)	183
				HOOVER FIVE	185
				LAS VEGAS FOUR	187
				MCCARRAN FOUR	189
				PRFUM THREE (RNAV)	191
				SHEAD NINE (RNAV)	193
				STAAV SEVEN (RNAV)	195
				TRALR SEVEN (RNAV)	198
KINGMAN, AZ					
KINGMAN(IGM)					
TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M			
IAPS	RNAV (GPS) RWY 03	154			
	RNAV (GPS) Y RWY 21	155			
	RNAV (GPS) Z RWY 21	156			
	VOR/DME RWY 21	157			
AIRPORT DIAGRAM		158			
LAGUNA AAF(LGF)					
YUMA PROVING GROUND, AZ					
TAKEOFF MINIMUMS		L			
IAPS	RNAV (GPS) RWY 06	159			
	RNAV (GPS) RWY 18	160			
	VOR RWY 06	161			
AIRPORT DIAGRAM		162			
LAKE HAVASU CITY, AZ					
LAKE HAVASU CITY(HII)					
TAKEOFF MINIMUMS		L			
IAPS	RNAV (GPS) RWY 14	163			
	RNAV (GPS) RWY 32	164			
	VOR/DME-A	165			

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
------	------	---------	------	------	---------

LAS VEGAS, NV

NORTH LAS VEGAS(VGT)		
TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
LAHSO	O	
HOT SPOT	P	
STARS		
CLARR TWO	Z16	
FUZZY SEVEN	Z28	
KADDY TWO	Z44	
LUXOR TWO	Z52	
IAPS		
ILS OR LOC RWY 12L	202	
GPS RWY 12R	203	
GPS RWY 30L	204	
AIRPORT DIAGRAM	205	
DPS		
BOULDER CITY ONE (OBSTACLE)	206	
NORTHTOWN FOUR	207	
RIGHTTURN TWO	208	

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	209	
RNAV (GPS) RWY 17	210	
RNAV (GPS) RWY 35	211	
AIRPORT DIAGRAM	212	
DPS		
ORNEY ONE (OBSTACLE)	213	

LOVELOCK, NV

DERBY FIELD(LOL)

TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
GPS RWY 02	214	
VOR/DME OR GPS-A	215	

LUKE AFB(LUF)

GLENDALE, AZ

TAKEOFF MINIMUMS	L	
STARS		
LENNI THREE	Z51	

LUKE AFB, AZ

---SEE GLENDALE, AZ

MARANA, AZ

MARANA RGNL(AVQ)

TAKEOFF MINIMUMS	L	
IAPS		
RNAV (GPS) RWY 03	216	
RNAV (GPS) RWY 12	217	
RNAV (GPS) RWY 21	218	
RNAV (GPS)-E	219	
NDB RWY 12	220	

MC CARRAN INTL

---SEE LAS VEGAS, NV

MESA, AZ

FALCON FIELD(FFZ)		
TAKEOFF MINIMUMS	L	
DIVERSE VECTOR AREA	L	
ALTERNATE MINIMUMS	M	
HOT SPOT	P	
STARS		
ARLIN THREE	Z3	
BLYTHE FOUR	Z6	
DSERT TWO (RNAV)	Z22	
HUUTY ONE (RNAV)	Z34	
JCOBS TWO	Z40	
SUNSS SEVEN	Z69	
IAPS		
RNAV (GPS) RWY 04L	221	
RNAV (GPS) RWY 04R	222	
RNAV (GPS)-B	223	
AIRPORT DIAGRAM	224	
DPS		
MESA ONE (OBSTACLE)	225	
SACAT THREE (RNAV)	226	

MICHAEL AAF(DPG)

DUGWAY PROVING GROUND, UT

TAKEOFF MINIMUMS	L	
IAPS		
RNAV (GPS) Y RWY 12	227	
RNAV (GPS) Z RWY 12	228	
TACAN Y RWY 12	229	
TACAN Z RWY 12	230	
AIRPORT DIAGRAM	231	

MILFORD, UT

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

TAKEOFF MINIMUMS	L	
ALTERNATE MINIMUMS	M	
IAPS		
RNAV (GPS) RWY 16	232	
RNAV (GPS) RWY 34	233	
VOR/DME-A	234	

MINDEN, NV

MINDEN-TAHOE(MEV)

TAKEOFF MINIMUMS	L	
HOT SPOT	P	
IAPS		
GPS-A	235	
GPS-B	236	
AIRPORT DIAGRAM	237	
DPS		
MINDEN TWO (OBSTACLE) (RNAV)	238	

MOAB, UT

CANYONLANDS FIELD(CNY)

TAKEOFF MINIMUMS	L	
IAPS		
RNAV (GPS) RWY 03	239	
VOR-A	240	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
NELLIS AFB(KLSV)			PARKER, AZ		
LAS VEGAS, NV			AVI SUQUILLA(P20)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
IAPS	ILS OR LOC/DME X RWY 21L	241	IAPS	RNAV (GPS) RWY 01	265
	LOC/DME Y RWY 21L	242		VOR/DME-A	266
	TACAN X RWY 21L	243	PAYSON, AZ		
	SIN CITY VISUAL RWY 03L/R	244	PAYSON(PAN)		
AIRPORT DIAGRAM		245	TAKEOFF MINIMUMS		L
DPS	DREAM FOUR	246	IAPS	RNAV (GPS)-A	267
	FYTR THREE	247	PHOENIX, AZ		
	MORMON MESA FOUR	248	PHOENIX DEER VALLEY(DVT)		
NEPHI, UT			TAKEOFF MINIMUMS		L
NEPHI MUNI(U14)			DIVERSE VECTOR AREA		L
TAKEOFF MINIMUMS		L	ALTERNATE MINIMUMS		M
IAPS	RNAV (GPS) RWY 17	249	HOT SPOT		P
	RNAV (GPS) RWY 35	250	STARS	ARLIN THREE	23
DPS	NEPHI ONE (OBSTACLE) (RNAV)	251		BLYTHE FOUR	26
NOGALES, AZ				JCOBS TWO	240
NOGALES INTL(OLS)				SUNSS SEVEN	269
TAKEOFF MINIMUMS		L	IAPS	RNAV (GPS) RWY 07R	268
IAPS	VOR/DME OR GPS-B	252		RNAV (GPS) RWY 25L	269
DPS	NOGALES ONE (OBSTACLE)	253		RNAV (GPS)-B	270
NORTH LAS VEGAS				RNAV (GPS)-C	271
---SEE LAS VEGAS, NV			AIRPORT DIAGRAM		272
OGDEN, UT			DPS	DEERVALLEY ONE (OBSTACLE)	273
OGDEN-HINCKLEY(OGD)				BNYRD FIVE (RNAV)	274
TAKEOFF MINIMUMS		L		FTHLS FIVE (RNAV)	275
ALTERNATE MINIMUMS		M		IZZZO FIVE (RNAV)	276
LAHSO		O		JUDTH FIVE (RNAV)	277
HOT SPOT		P		KATMN FIVE (RNAV)	278
IAPS	ILS OR LOC RWY 03	254		LALUZ FIVE (RNAV)	279
	RNAV (GPS) Y RWY 03	255		MAYSA FIVE (RNAV)	280
	RNAV (GPS) Z RWY 03	256		SNOBL FIVE (RNAV)	281
	VOR/DME RWY 07	257		YOTES FIVE (RNAV)	282
AIRPORT DIAGRAM		258	OGDEN, UT		
DPS	EMONT ONE (OBSTACLE)	259	---SEE HILL AFB		
OGDEN, UT			PAGE, AZ		
---SEE HILL AFB			PAGE MUNI(PGA)		
PAGE, AZ			TAKEOFF MINIMUMS		L
PAGE MUNI(PGA)			IAPS	RNAV (GPS) RWY 15	260
TAKEOFF MINIMUMS		L		RNAV (GPS) RWY 33	261
IAPS	RNAV (GPS) RWY 15	260		VOR-B	262
	RNAV (GPS) RWY 33	261	PANGUITCH, UT		
	VOR-B	262	PANGUITCH MUNI(U55)		
PANGUITCH, UT			TAKEOFF MINIMUMS		L
PANGUITCH MUNI(U55)			ALTERNATE MINIMUMS		M
TAKEOFF MINIMUMS		L	IAPS	RNAV (GPS) RWY 18	263
ALTERNATE MINIMUMS		M		RNAV (GPS) RWY 36	264
IAPS	RNAV (GPS) RWY 18	263	INDEX		
	RNAV (GPS) RWY 36	264	16315		

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG NAME PROC SECT PG

PHOENIX, AZ

PHOENIX SKY HARBOR INTL(PHX)

TAKEOFF MINIMUMSL

DIVERSE VECTOR AREAL

ALTERNATE MINIMUMSM

HOT SPOTP

STARSARLIN THREEZ3

BLYTHE FOUR26

BRUSR ONE (RNAV)Z10

BUNTR TWOZ13

COYOT TWOZ17

DSERT TWO (RNAV)Z22

EAGUL SIX (RNAV)Z24

GEELA SIX (RNAV)Z29

HYDRR ONE (RNAV)Z35

JESSE ONEZ42

KOOLY FOUR (RNAV)Z48

MAIER FIVE (RNAV)Z54

PINNG ONE (RNAV)Z60

SUNSS SEVENZ69

IAPSILS OR LOC RWY 07R283

ILS OR LOC RWY 08284

ILS OR LOC RWY 25L285

ILS OR LOC RWY 26286

ILS OR LOC/DME RWY 07L287

RNAV (RNP) Z RWY 07L288

RNAV (RNP) Z RWY 07R289

RNAV (RNP) Z RWY 08290

RNAV (RNP) Z RWY 25L291

RNAV (RNP) Z RWY 25R292

RNAV (RNP) Z RWY 26293

RNAV (GPS) Y RWY 07L294

RNAV (GPS) Y RWY 07R295

RNAV (GPS) Y RWY 08296

RNAV (GPS) Y RWY 25L297

RNAV (GPS) Y RWY 25R298

RNAV (GPS) Y RWY 26299

AIRPORT DIAGRAM300

DPSBNYRD FIVE (RNAV)301

BUCKEYE FOUR303

CHILY FOUR305

FTHLS FIVE (RNAV)307

IZZZO FIVE (RNAV)309

JUDTH FIVE (RNAV)311

KATMN FIVE (RNAV)313

LALUZ FIVE (RNAV)315

MAXXO THREE317

MAYSA FIVE (RNAV)319

MOBIE FOUR321

SILOW FOUR323

SNOBL FIVE (RNAV)325

ST. JOHNS EIGHT327

STANFIELD FOUR329

YOTES FIVE (RNAV)331

STARSDSERT TWO (RNAV)Z22

PHOENIX, AZ

PHOENIX-MESA GATEWAY(IWA)

TAKEOFF MINIMUMSL

DIVERSE VECTOR AREAL

ALTERNATE MINIMUMSM

HOT SPOTP

STARSARLIN THREEZ3

BLYTHE FOURZ6

DSERT TWO (RNAV)Z22

HUUTY ONE (RNAV)Z34

JCOBS TWOZ40

SUNSS SEVENZ69

IAPSILS OR LOC RWY 30C333

RNAV (RNP) Z RWY 30C334

RNAV (GPS) RWY 12C335

RNAV (GPS) RWY 12R336

RNAV (GPS) RWY 30L337

RNAV (GPS) Y RWY 30C338

VOR OR TACAN RWY 30C339

AIRPORT DIAGRAM340

DPSPHOENIX ONE (OBSTACLE)341

BNYRD FIVE (RNAV)342

FTHLS FIVE (RNAV)343

IZZZO FIVE (RNAV)344

JUDTH FIVE (RNAV)345

KATMN FIVE (RNAV)346

LALUZ FIVE (RNAV)347

MAYSA FIVE (RNAV)348

SNOBL FIVE (RNAV)349

YOTES FIVE (RNAV)350

PHOENIX GOODYEAR
---SEE GOODYEAR, AZ

PHOENIX-MESA GATEWAY
---SEE PHOENIX, AZ

PRESCOTT, AZ

ERNEST A LOVE FIELD(PRC)

TAKEOFF MINIMUMSL

DIVERSE VECTOR AREAL

ALTERNATE MINIMUMSM

LAHSOO

HOT SPOTP

IAPSILS OR LOC/DME RWY 21L351

RNAV (RNP) Z RWY 03R352

RNAV (GPS) RWY 12353

RNAV (GPS) RWY 21L354

RNAV (GPS) Y RWY 03R355

VOR RWY 12356

AIRPORT DIAGRAM357

DPSPRESCOTT ONE (OBSTACLE)358

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

TAKEOFF MINIMUMSL

ALTERNATE MINIMUMSM

IAPSILS OR LOC/DME RWY 01360

RNAV (GPS) RWY 01361

VOR/DME RWY 01362

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG			
PROVO, UT								
PROVO MUNI(PVU)								
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L			
ALTERNATE MINIMUMS		M	ALTERNATE MINIMUMS		M			
HOT SPOT		P	IAPS	RNAV (GPS) RWY 19	399			
IAPS	ILS OR LOC/DME RWY 13	363	DPS	HAMET THREE (OBSTACLE) (RNAV)	400			
	RNAV (GPS) RWY 13	364		RICHFIELD TWO (OBSTACLE) (RNAV)	401			
	VOR/DME RWY 13	365	ROOSEVELT, UT					
AIRPORT DIAGRAM		366	ROOSEVELT MUNI(74V)					
DPS	PROVO FOUR (OBSTACLE)	367	TAKEOFF MINIMUMS		L			
RENO, NV								
RENO/STEAD(RTS)								
TAKEOFF MINIMUMS		L	IAPS	RNAV (GPS) RWY 25	402			
IAPS	ILS OR LOC/DME RWY 32	368		VOR-A	403			
	RNAV (GPS) RWY 32	369	RYAN FIELD					
AIRPORT DIAGRAM		370	---SEE TUCSON, AZ					
RENO/TAHOE INTL(RNO)								
TAKEOFF MINIMUMS		L	SAFFORD, AZ					
DIVERSE VECTOR AREA		L	SAFFORD RGNL(SAD)					
ALTERNATE MINIMUMS		M	TAKEOFF MINIMUMS		L			
HOT SPOT		P	ALTERNATE MINIMUMS		M			
STARS	ANAHO TWO	22	IAPS	RNAV (GPS) RWY 12	404			
	CANNON TWO	Z15		RNAV (GPS) RWY 30	405			
	EELZA TWO (RNAV)	Z27	DPS	SAFFORD ONE (OBSTACLE) (RNAV)	406			
	HARTT ONE (RNAV)	Z33	ST GEORGE, UT					
	KENNO TWO (RNAV)	Z45	ST GEORGE RGNL(SGU)					
	MYBAD TWO (RNAV)	Z57	TAKEOFF MINIMUMS		L			
	RUSME TWO (RNAV)	Z64	ALTERNATE MINIMUMS		M			
	RYANN ONE	Z65	IAPS	RNAV (GPS) RWY 01	407			
	SIERRA THREE	Z66		RNAV (GPS) RWY 19	408			
	TARVR ONE	Z71		LDA/DME RWY 19	409			
	WADOL TWO (RNAV)	Z74		VOR/DME-A	410			
IAPS	ILS OR LOC/DME RWY 34L	371	DPS	JITKA TWO (OBSTACLE)	411			
	ILS X OR LOC X RWY 16R	372		HIVKA TWO (RNAV)	412			
	ILS Z OR LOC Z RWY 16R	373		PHYLI TWO (RNAV)	413			
	ILS Y RWY 16R	374	ST JOHNS, AZ					
	RNAV (RNP) Y RWY 16L	375	ST JOHNS INDUSTRIAL AIRPARK(SJN)					
	RNAV (RNP) Y RWY 16R	376	TAKEOFF MINIMUMS		L			
	RNAV (RNP) Z RWY 16L	377	ALTERNATE MINIMUMS		M			
	RNAV (RNP) Z RWY 16R	378	IAPS	RNAV (GPS) RWY 14	414			
	RNAV (RNP) Z RWY 34L	379		RNAV (GPS) RWY 32	415			
	RNAV (RNP) Z RWY 34R	380		VOR/DME-A	416			
	RNAV (GPS) X RWY 16L	381	SAFFORD, AZ					
	RNAV (GPS) X RWY 16R	382	SAFFORD RGNL(SAD)					
	RNAV (GPS) X RWY 34L	383	TAKEOFF MINIMUMS		L			
	RNAV (GPS) X RWY 34R	384	ALTERNATE MINIMUMS		M			
	RNAV (GPS) Y RWY 34L	385	IAPS	RNAV (GPS) RWY 19	399			
	RNAV (GPS) Y RWY 34R	386	DPS	HAMET THREE (OBSTACLE) (RNAV)	400			
	LOC Y RWY 16R	387		RICHFIELD TWO (OBSTACLE) (RNAV)	401			
	VOR-D	388	ROOSEVELT, UT					
AIRPORT DIAGRAM		389	ROOSEVELT MUNI(74V)					
DPS	HUNGRY THREE	390	TAKEOFF MINIMUMS		L			
	MUSTANG EIGHT	391	IAPS	RNAV (GPS) RWY 25	402			
	PVINE THREE (RNAV)	392		VOR-A	403			
	RENO NINE	393	RYAN FIELD					
	SPLTM FOUR (RNAV)	395	---SEE TUCSON, AZ					
	VISTA TWO	396	SAFFORD, AZ					
	WAGGE SIX	397	SAFFORD RGNL(SAD)					
	ZEFFR SIX (RNAV)	398	TAKEOFF MINIMUMS		L			
			ALTERNATE MINIMUMS		M			
			IAPS	RNAV (GPS) RWY 12	404			
				RNAV (GPS) RWY 30	405			
			DPS	SAFFORD ONE (OBSTACLE) (RNAV)	406			
			ST GEORGE, UT					
			ST GEORGE RGNL(SGU)					
			TAKEOFF MINIMUMS		L			
			ALTERNATE MINIMUMS		M			
			IAPS	RNAV (GPS) RWY 01	407			
				RNAV (GPS) RWY 19	408			
				LDA/DME RWY 19	409			
				VOR/DME-A	410			
			DPS	JITKA TWO (OBSTACLE)	411			
				HIVKA TWO (RNAV)	412			
				PHYLI TWO (RNAV)	413			
			ST JOHNS, AZ					
			ST JOHNS INDUSTRIAL AIRPARK(SJN)					
			TAKEOFF MINIMUMS		L			
			ALTERNATE MINIMUMS		M			
			IAPS	RNAV (GPS) RWY 14	414			
				RNAV (GPS) RWY 32	415			
				VOR/DME-A	416			

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RICHFIELD, UT

RICHFIELD MUNI(RIF)

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
------	------	---------	------	------	---------

SALT LAKE CITY, UT

SALT LAKE CITY INTL(SLC)

TAKEOFF MINIMUMS	L
HOT SPOT	P
STARS	
BEARR FOUR	Z4
BONNEVILLE TWO	Z7
BRIGHAM CITY THREE	Z8
DELTA FOUR (RNAV)	Z20
JAMMM FOUR	Z38
LEEHY FOUR (RNAV)	Z50
NORDK FOUR (RNAV)	Z59
QWENN FOUR (RNAV)	Z63
SKEES FOUR (RNAV)	Z67
SPANE SIX	Z68
WAATS FOUR (RNAV)	Z73
IAPS	
ILS OR LOC RWY 16L	417
ILS OR LOC RWY 16R	418
ILS OR LOC RWY 17	419
ILS OR LOC RWY 34L	420
ILS OR LOC RWY 34R	421
ILS RWY 16R (SA CAT I)	422
ILS RWY 34L (SA CAT I)	423
ILS RWY 34R (SA CAT I)	424
ILS RWY 16L (CAT II - III)	425
ILS RWY 16R (CAT II - III)	426
ILS RWY 17 (SA CAT I - II)	427
ILS RWY 34L (CAT II - III)	428
ILS RWY 34R (CAT II - III)	429
RNAV (GPS) RWY 16L	430
RNAV (GPS) RWY 16R	431
RNAV (GPS) RWY 17	432
RNAV (GPS) RWY 34L	433
RNAV (GPS) RWY 34R	434
RNAV (GPS) RWY 35	435
LDA/DME RWY 35	436
AIRPORT DIAGRAM	437
DPS	
EDETH FOUR (RNAV)	438
FAIRFIELD EIGHT	440
LEETZ FIVE (RNAV)	442
NSIGN FOUR (RNAV)	444
PECOP FOUR (RNAV)	446
SALT LAKE THREE	448
SEVYR TWO	450
TWIN FALLS THREE (RNAV)	452
WEVIC FOUR (RNAV)	454

SOUTH VALLEY RGNL(U42)

TAKEOFF MINIMUMS	L
IAPS	
RNAV (GPS) Y RWY 34	456
RNAV (GPS) Z RWY 34	457
DPS	
ITOF0 TWO (RNAV)	458

SAN CARLOS APACHE

---SEE GLOBE, AZ

SCOTTSDALE, AZ

SCOTTSDALE(SDL)

TAKEOFF MINIMUMS	L
DIVERSE VECTOR AREA	L
ALTERNATE MINIMUMS	M
STARS	
ARLIN THREE	Z3
BLYTHE FOUR	Z6
DSERT TWO (RNAV)	Z22
JCOBS TWO	Z40
SUNSS SEVEN	Z69
IAPS	
RNAV (RNP) RWY 21	459
RNAV (RNP) Y RWY 03	460
RNAV (RNP) Z RWY 03	461
RNAV (GPS)-D	462
RNAV (GPS)-E	463
VOR-C	464
VOR/DME-A	465
AIRPORT DIAGRAM	466
DPS	
MARICOPA ONE (OBSTACLE)	467
BNYRD FIVE (RNAV)	468
FTHLS FIVE (RNAV)	469
IZZ0 FIVE (RNAV)	470
JONHH ONE	471
JUDTH FIVE (RNAV)	473
KATMN FIVE (RNAV)	474
LALUZ FIVE (RNAV)	475
MAYSA FIVE (RNAV)	476
SCOTTSDALE SEVEN	477
SNOBL FIVE (RNAV)	479
YOTES FIVE (RNAV)	480

SEDONA, AZ

SEDONA(SEZ)

TAKEOFF MINIMUMS	L
IAPS	
GPS RWY 03	481
DPS	
OATES ONE (OBSTACLE) (RNAV)	482

SHOW LOW, AZ

SHOW LOW RGNL(SOW)

TAKEOFF MINIMUMS	L
ALTERNATE MINIMUMS	M
IAPS	
RNAV (GPS) RWY 24	483
NDB-A	484

SIERRA VISTA MUNI-LIBBY AAF

---SEE FORT HUACHUCA-SIERRA VISTA, AZ

SOUTH VALLEY RGNL

---SEE SALT LAKE CITY, UT

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI(JTC)

TAKEOFF MINIMUMS	L
IAPS	
RNAV (GPS) RWY 21	485

STELLAR AIRPARK

---SEE CHANDLER, AZ

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
TAYLOR, AZ			TUCSON, AZ		
TAYLOR MUNI(TYL)			RYAN FIELD(RYN)		
TAKEOFF MINIMUMS		L	TAKEOFF MINIMUMS		L
IAPS	GPS RWY 21	486	HOT SPOT		P
DPS	CAMBA THREE (RNAV)	487	IAPS	ILS OR LOC RWY 06R	507
				NDB/DME OR GPS RWY 06R	508
TONOPAH, NV			AIRPORT DIAGRAM		
TONOPAH(TPH)			DPS		
TAKEOFF MINIMUMS		L	ALMON ONE (OBSTACLE) (RNAV)		
ALTERNATE MINIMUMS		M	510		
IAPS	RNAV (GPS) RWY 15	488	TUCSON INTL(TUS)		
	VOR OR GPS-A	489	TAKEOFF MINIMUMS		
AIRPORT DIAGRAM		490	ALTERNATE MINIMUMS		
			HOT SPOT		
TONOPAH TEST RANGE(KTNX)			STARS		
TONOPAH, NV			DINGO FIVE		
TAKEOFF MINIMUMS		L	ZONNA ONE (RNAV)		
IAPS	ILS OR LOC/DME RWY 14	491	IAPS		
	ILS OR LOC/DME RWY 32	492	ILS OR LOC RWY 11L		
	RNAV (GPS) RWY 14	493	RNAV (RNP) Y RWY 11L		
	RNAV (GPS) RWY 32	494	RNAV (RNP) Y RWY 29R		
	VOR/DME Z RWY 14	495	RNAV (GPS) RWY 03		
	VOR/DME Z RWY 32	496	RNAV (GPS) RWY 11R		
	VOR/DME OR TACAN RWY 14	497	RNAV (GPS) RWY 21		
	VOR/DME OR TACAN RWY 32	498	RNAV (GPS) RWY 29L		
AIRPORT DIAGRAM		499	RNAV (GPS) Z RWY 11L		
DPS	RANGE TWO (RNAV)	500	RNAV (GPS) Z RWY 29R		
	STOFF TWO	501	LOC/DME BC RWY 29R		
	TONOPAH TWO	502	VOR/DME OR TACAN RWY 29R		
	TUMBE ONE (RNAV)	503	VOR OR TACAN RWY 11L		
			AIRPORT DIAGRAM		
			DPS		
			BURRO FOUR (RNAV)		
			TUCSON EIGHT		
			WLDKDT THREE (RNAV)		
			527		
TOOELE, UT			TUCSON, AZ		
BOLINDER FIELD-TOOELE VALLEY(TVY)			---SEE DAVIS-MONTHAN AFB		
TAKEOFF MINIMUMS		L	VALLE		
IAPS	ILS OR LOC/DME RWY 17	504	---SEE GRAND CANYON, AZ		
	RNAV (GPS) RWY 17	505	VERNAL, UT		
DPS	STACO TWO (RNAV)	506	VERNAL RGNL(VEL)		
			TAKEOFF MINIMUMS		
			IAPS		
			RNAV (GPS) RWY 34		
			VOR RWY 34		
			529		
WENDOVER, UT			WENDOVER(ENV)		
WENDOVER(ENV)			TAKEOFF MINIMUMS		
TAKEOFF MINIMUMS		L	ALTERNATE MINIMUMS		
ALTERNATE MINIMUMS		M	IAPS		
IAPS	RNAV (GPS) RWY 08	530	RNAV (GPS) RWY 08		
	RNAV (GPS) RWY 26	531	RNAV (GPS) RWY 26		
	RNAV (GPS)-A	532	RNAV (GPS)-A		
	RNAV (GPS)-C	533	RNAV (GPS)-C		
	VOR/DME-B	534	VOR/DME-B		
	VOR/DME OR TACAN RWY 26	535	VOR/DME OR TACAN RWY 26		
AIRPORT DIAGRAM		536	AIRPORT DIAGRAM		
DPS	WENDOVER ONE (RNAV)	537	DPS		
			WENDOVER ONE (RNAV)		
			537		

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

INDEX

16315

INDEX

16315

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME	PROC	SECT PG	NAME	PROC	SECT PG
------	------	---------	------	------	---------

WILLCOX, AZ

COCHISE COUNTY(P33)

TAKEOFF MINIMUMS	L
IAPS RNAV (GPS) RWY 03	538
RNAV (GPS) RWY 21	539
DPS COCHISE ONE (OBSTACLE)	540

WINDOW ROCK, AZ

WINDOW ROCK(RQE)

TAKEOFF MINIMUMS	L
ALTERNATE MINIMUMS	M
IAPS RNAV (GPS) RWY 02	541
RNAV (GPS)-B	542
VOR/DME-A	543

WINNEMUCCA, NV

WINNEMUCCA MUNI(WMC)

TAKEOFF MINIMUMS	L
ALTERNATE MINIMUMS	M
IAPS RNAV (GPS) RWY 14	544
RNAV (GPS) RWY 32	545
VOR RWY 14	546
AIRPORT DIAGRAM	547

WINSLOW, AZ

WINSLOW-LINDBERGH RGNL(INW)

TAKEOFF MINIMUMS	L
IAPS VOR OR GPS RWY 11	548

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	549
RNAV (GPS) RWY 03L	550
RNAV (GPS) RWY 17	551
RNAV (GPS) RWY 21R	552
VOR/DME OR TACAN RWY 17	553
VOR RWY 17	554
TACAN RWY 03L	555
TACAN RWY 21R	556
AIRPORT DIAGRAM	557
DPS ARGUS THREE	558
CARGO EIGHT	559
HEEDS ONE	561
MOHAK THREE	562
PICACHO THREE	563

YUMA PROVING GROUND, AZ

---SEE LAGUNA AAF

INDEX

16315

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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

16315

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

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

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

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called 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.

NAME	TAKEOFF MINIMUMS
------	------------------

BATTLE MOUNTAIN, NV

BATTLE MOUNTAIN (BAM)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 09127 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. w/ a min climb of 282' per NM to 7300 or 4700-3 for climb in visual conditions. **Rwy 12**, std. w/ a min climb of 386' per NM to 7600 or 4700-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8200 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 12**, climb heading 122° and BAM R-076 to 10000 before proceeding on course or climb in visual conditions to cross Battle Mountain Airport at or above 9100 before proceeding on course. **Rwy 21**, climb direct BAM VORTAC and BAM R-205 to 10100 before proceeding on course. **Rwy 30**, climb heading 302° and BAM R-324 to 9100 before proceeding on course.

NAME	TAKEOFF MINIMUMS
------	------------------

BEAVER, UT

BEAVER MUNI (U52)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 07242 (FAA)
TAKEOFF MINIMUMS: **Rwys 7, 25**, NA-obstacles. **Rwys 13, 31**, 2600-2% for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwys 13, 31**, climb in visual conditions to cross Beaver Muni Airport Northwest bound at or above 8300 then climb to 10100 via MLF VORTAC R-102 to MLF VORTAC. Do not exceed 210 KIAS until established on MLF VORTAC R-102.

BLANDING, UT

BLANDING MUNI (BDG)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1A 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.

16315

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

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

16315

BRIGHAM CITY, UT

BRIGHAM CITY (BMC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 6A 11349 (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.
NOTE: **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 11069 (FAA)
DEPARTURE PROCEDURE: use BRYCE
DEPARTURE.

BULLHEAD CITY, AZ

LAUGHLIN/BULLHEAD INTL (IFP)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 09183 (FAA)
TAKEOFF MINIMUMS: **Rwy 16**, std. w/ a min. climb
of 370' per NM to 1800, or 1700-3 for climb in
visual conditions. **Rwy 34**, std. w/ a min. climb of
495' per NM to 5500, or 1700-3 for climb in visual
conditions.
DEPARTURE PROCEDURE: **Rwy 16**, climb via
heading 164° and EED VORTAC R-334 to EED
VORTAC, or for climb in visual conditions: cross
Laughlin/Bullhead Intl airport at or above 2300,
then continue climbing via heading 155° and EED
VORTAC R-335 to EED VORTAC. **Rwy 34**, climb
via heading 344° to 1600, then climbing right turn
direct EED VORTAC, or for climb in visual
conditions: cross Laughlin/Bullhead Intl airport at or
above 2300, then continue climbing via heading
155° and EED VORTAC R-335 to EED VORTAC.
All Aircraft climb in EED VORTAC holding pattern
(East, right turn, 257° inbound) to cross EED
VORTAC at or above MEA for direction of flight
before proceeding on course.
NOTE: **Rwy 16**, multiple bushes beginning 3600'
from DER, left of centerline, up to 12' AGL/1029'
MSL. **Rwy 34**, multiple poles beginning 2211' from
DER, right of centerline, up to 105' AGL/821' MSL.

CARSON CITY, NV

CARSON (CXP)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 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 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.
NOTE: **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 2A 14037 (FAA)
TAKEOFF MINIMUMS: **Rwy 8**, 3500-3 or std. with a min. climb
of 450' per NM to 10000.
DEPARTURE PROCEDURE: **Rwys 2, 8**, turn left, thence...
Rwys 20, 26, turn right, thence...
...climb direct to CDC VOR/DME, continue climb to 9000 on
CDC R-348. Northbound continue on course. All others
reverse course, climb to cross CDC VOR/DME at or above
MCA for direction of flight.

CHANDLER, AZ

CHANDLER MUNI (CHD)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 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.
NOTE: **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 15232 (FAA)
Rwys 4L, 4R, 22L, 22R, heading as assigned by ATC.

STELLAR AIRPARK (P19)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
DEPARTURE PROCEDURE: **Rwy 17**, turn left, climb via
heading 150°. **Rwy 35**, turn right. **All aircraft** climb via TFD R
-350 direct TFD VORTAC.
NOTE: **Rwy 17**, tower and signs beginning 574' from DER,
183' right of centerline, up to 50' AGL/1124' MSL. Sign 611'
from DER, 365' left of centerline, 42' AGL/1214' MSL.

16315

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

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

16315

CLIFTON/MORENCI, AZ

GREENLEE COUNTY (CFT)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 10210 (FAA)
DEPARTURE PROCEDURE: Use SAN SIMON
DEPARTURE.

COLORADO CITY, AZ

COLORADO CITY MUNI (AZC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 95089 (FAA)
TAKEOFF MINIMUMS: **Rwy 2, NA.**
DEPARTURE PROCEDURE: **Rwy 11**, turn right.
Rwys 20, 29, turn left. **All aircraft** climb to 7400 via
the 160° bearing from AZC NDB then continue climb
on course.

COOLIDGE, AZ

COOLIDGE MUNI (P08)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 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 16147 (FAA)
DEPARTURE PROCEDURE: Use MINGY
DEPARTURE.

DAVIS-MONTHAN AFB (KDMA),

TUCSON, AZ
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 14205
TAKEOFF MINIMUMS: **Rwy 12**, 5300-3, or standard with
minimum climb of 234 ft/MM to 9700.
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 OBSTACLES: **Rwy 12**: Terrain 2707' MSL, 37'
from DER, 415' left of centerline. Terrain 2707' MSL, 8'
from DER, 424' left of centerline. Terrain 2707' MSL, 0'
from DER, 500' left of centerline. Pole 45' AGL/2776'
MSL, 3511' from DER, 1052' left of centerline. Vehicle
10' AGL/2727' MSL, 1710' from DER, 195' right of
centerline. Vehicle 10' AGL/2727' MSL, 1498' from DER,
787' left of centerline. Aircraft tail 39' AGL/2748' MSL, 81'
from DER, 572' left of centerline. **Rwy 30**: Terrain 2590'
MSL, 34' from DER, 220' left of centerline. Terrain 2592'
MSL, 0' from DER, 500' right of centerline. Terrain 2592'
MSL, 13' from DER, 493' right of centerline. Pylon 86'
AGL/2645' MSL, 3601' from DER, 1209' left of
centerline. Pylon 98' AGL/2672' MSL, 4455' from DER,
332' left of centerline. Pylon 98' AGL/2665' MSL, 3771'
from DER, 882' left of centerline. Pylon 98' AGL/2664'
MSL, 4112' from DER, 606' left of centerline. Pylon 98'
AGL/2665' MSL, 3416' from DER, 1169' left of centerline.
Pylon 86' AGL/2658' MSL, 3296' from DER, 1373' left of
centerline. Terrain 2591' MSL, 0' from DER, 500' left of
centerline. Aircraft tail 39' AGL/2635' MSL, 34' inward of
DER, 510' right of centerline.

DELTA, UT

DELTA MUNI (DTA)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG-A 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.
NOTE: **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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

DOUGLAS BISBEE, AZ

BISBEE- DOUGLAS INTL (DUG)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 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.

NOTE: **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

ORIG-A 16091 (FAA)

DEPARTURE PROCEDURE: Climb direct to MTU VOR/DME to depart at or above 7200 eastbound or 10000 westbound.

ELKO, NV

ELKO RGNL (EKO)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 6 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.

NOTE: **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 11181 (FAA)

DEPARTURE PROCEDURE: use ELY DEPARTURE.

EUREKA, NV

EUREKA (05U)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 13234 (FAA)

TAKEOFF MINIMUMS: **Rwy 18**, NA-Terrain.

DEPARTURE PROCEDURE: use MINES (RNAV) DEPARTURE.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

FALLON, NV

FALLON MUNI (FLX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10154 (FAA)

DEPARTURE PROCEDURE: **Rwy 21**, climbing right turn...**Rwys 3, 13, 31**, climbing left turn...
...to 9300 direct HZN VORTAC, continue climb in HZN VORTAC holding pattern (West, left turns, 075° inbound) cross HZN VORTAC at or above 9300 before proceeding on course, continue climb to MEA or assigned altitude.

NOTE: **Rwy 3**, vehicle on road 39' from DER, 306' right of centerline, 15' AGL/3971' MSL. Tree 111' from DER, 424' left of centerline 25' AGL/3988' MSL. Tree 364' from DER, 272' right of centerline, 25' AGL/3988' MSL. **Rwy 13**, trees beginning 3' from DER, 494' right of centerline, up to 25' AGL/4021' MSL. Vehicle on road beginning 22' from DER, 80' left of centerline, up to 15' AGL/3978' MSL. **Rwy 21**, vehicle on road 477' from DER, 241' left of centerline, 15' AGL/3984' MSL. Tree 710' from DER, 75' left of centerline, 25' AGL/3994' MSL. **Rwy 31**, trees beginning 52' from DER, 159' right of centerline, up to 25' AGL/3975' MSL. Trees beginning 111' from DER, 140' left of centerline, up to 25' AGL/3981' MSL.

FALLON NAS(VAN VOORHIS FLD)(KNFL)

FALLON, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

15008

TAKE-OFF MINIMUMS: **Rwy 13L/R**, Diverse departures authorized 131° CW 311°, standard with minimum climb rate of 245 ft/NM to 7200. **Rwy 31L/R**, Diverse departures authorized 131° CW 083°, standard with minimum climb rate of 252 ft/NM to 9800. **Rwy 7**, Diverse departures authorized, standard with minimum climb rate of 295 ft/NM to 12,200. **Rwy 25**, Diverse departures authorized 132° CW 073°, standard with minimum climb rate of 250 ft/NM to 12,200.

TAKE-OFF OBSTACLES: **Rwy 31R**, tower 766' from DER, 459' left of centerline, 18' AGL/3950' MSL.

FILLMORE, UT

FILLMORE MUNI (FOM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 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.

NOTE: **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 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.

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

FORT HUACHUCA-SIERRA VISTA, AZ

SIERRA VISTA MUNI-LIBBY AAF (FHU)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 13346 (FAA)

TAKEOFF MINIMUMS: **Rwy 21**, NA - Terrain. **Rwy 26**, std. w/min. climb of 330' per NM to 7300.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 or bearing 018° from DAO NOB to TOMBS INT, continue climb in TOMBS holding pattern (hold N, left turns, 201° inbound to FHU VOR/DME or 198° inbound to DAO NDB) to 9500 before proceeding on course.NOTE: **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**, reflector and terrain beginning 102' from DER, 173' left of centerline, up to 4' AGL/4747' MSL. Reflector 101' from DER 173' right of centerline, 4' AGL/4723' MSL. **Rwy 30**, multiple bushes beginning 334' from DER, 112' left of centerline, up to 15' AGL/4626' MSL. Bush 132' from DER, 198' right of centerline, 16' AGL/4627' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 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 1 14317 (FAA)

DEPARTURE PROCEDURE: Use DRAKE (RNAV)

DEPARTURE.

GLOBE, AZ

SAN CARLOS APACHE (P13)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use IZTIR DEPARTURE.

GOODYEAR, AZ

PHOENIX GOODYEAR (GYR)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 14317 (FAA)

DEPARTURE PROCEDURE: Use POTER (RNAV)

DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 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 07242 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, NA-environmental.DEPARTURE PROCEDURE: **Rwy 21**, use GRAND DEPARTURE.

VALLE (40G)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 14621 (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.

HEBER, UT

HEBER CITY MUNI-RUSS MCDONALD

FIELD (36U)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3A 14149 (FAA)

TAKEOFF MINIMUMS: **Rwys 4, 22**, 5800-3 for climb in visual conditions. Climb in visual conditions NA at night. DEPARTURE PROCEDURE: **Rwy 4**, for climb in visual conditions, cross Heber City Muni-Russ McDonald Field at or above 11300 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.**Rwy 22**, for climb in visual conditions, cross Heber City Muni-Russ McDonald Field at or above 11300 MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.NOTE: **Rwy 4**, multiple trees, bushes, poles, buildings, vehicles, terrain, sign, fence, and wind sock beginning 20' from DER, left and right of centerline, up to 100' AGL/5708' MSL. **Rwy 22**, multiple trees beginning 608' from DER, left and right of centerline, up to 100' AGL/6411' MSL. Multiple bushes, poles, terrain and fence beginning 12' from DER, 225' left of centerline, up to 25' AGL/6344' 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.

16315

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

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

HUNTINGTON, UT

HUNTINGTON MUNI (69V)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2A 09295 (FAA)

TAKEOFF MINIMUMS: **Rwys 18, 26, 36**, NA. **Rwy 30**, 1700-3 or std. with a min. climb of 300' per NM to 8100.

DEPARTURE PROCEDURE: **Rwys 8, 12**, climbing left turn direct PUC VOR/DME...

Rwy 30, climbing right turn direct PUC VOR/DME....

...continue climb in PUC VOR/DME holding pattern (hold S, right turns, 009° inbound) to MEA for direction of flight.

NOTE: **Rwy 8**, tree 2663' from DER, 922' left of centerline, 40' AGL/5979' MSL. **Rwy 12**, tree 333' from DER, 132' right of centerline, 40' AGL/5919' MSL. **Rwy 30**, tree 2065' from DER, 875' left of centerline, 40' AGL/5999' MSL.

KANAB, UT

KANAB MUNI (KNB)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 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.

NOTE: **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

TAKEOFF MINIMUMS: **Rwys 3,17,21,35**, 800-1 or std. with a min. climb of 210' per NM to 7000.

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).

LAGUNA AAF (LGF)

YUMA PROVING GROUND, AZ (03247)

Rwy 6, 18, 36, turn right, climb to 3600 direct BZA VORTAC.

Rwy 24, climb to 3600 direct to BZA VORTAC.

TAKEOFF OBSTACLES:

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 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**, 600-1½ 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.

NOTE: **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.

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

16315

LAS VEGAS, NV

HENDERSON EXECUTIVE (HND)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 05132 (FAA)

TAKEOFF MINIMUMS: **Rwy 17L/R**, Cat A/B std. with a min. climb of 491' per NM to 6000, or 2100-3 for climb in visual conditions, Cat C/D NA. **Rwy 35L/R**, Cat A/B std. with a min. climb of 312' per NM to 4700, or 2100-3 for climb in visual conditions, Cat C/D NA.

DEPARTURE PROCEDURE: **Rwy 17L/R**, climbing right turn via LAS R-157 to LAS VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC. **Rwy 35L/R**, climbing right turn via BLD R-257 to BLD VORTAC before proceeding on course, or for climb in visual conditions: Cross Henderson Executive Airport eastbound at or above 4500, then via BLD R-249 to BLD VORTAC.

NOTE: **Rwy 17L**, tree 5610' from DER, 82' left of centerline, 100' AGL/2739' MSL. Tree 1.9 miles from DER, 1495' left of centerline, 100' AGL/2859' MSL. **Rwy 17R**, tree 4041' from DER, 859' left of centerline, 100' AGL/2739' MSL.

MCCARRAN INTL (LAS)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 7 16315 (FAA)

TAKEOFF MINIMUMS: **Rwys 1R, 7L/R, 19R**, std **Rwy 1L**, 300-1 or std. w/min. climb of 264' per NM to 2300. **Rwy 19L**, 300-1¼ or standard w/min. climb of 231' per NM to 2400 **Rwy 25R**, 300-2 or standard w/min. climb of 270' per NM to 2400. **Rwy 25L**, 300-1½ or std. w/min. climb of 209' per NM to 2400.

DEPARTURE PROCEDURE: **Rwys 1L/R**, climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 7L/R**, climb heading 075° to 3700, then climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 25 L/R**, climb heading 255° to 2800, then climbing right turn direct BLD VORTAC before proceeding on course. **Rwys 19 L/R**, climbing left turn via heading 120° and BLD R-257 direct BLD VORTAC before proceeding on course.

LAS VEGAS, NV (CON'T)

NOTE: **Rwy 25R**, OI on DME, NAVAID, bldg beginning 533' from DER, 367' left of centerline, up to 2206' MSL. NAVAID, OI on LOC beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL. Vehicle on road 665' from DER, crossing centerline, 2208' MSL. Pole 785' from DER, 592' left of centerline, 2218' MSL. Pole, tree beginning 785' from DER, 8' left of centerline, up to 2220' MSL. Trees beginning 820' from DER, 49' right of centerline, up to 25' AGL/2214' MSL. Pole, sign, tree, bldg beginning 873' from DER, 348' 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 1092' from DER, 531' left of centerline, up to 38' AGL/2237' MSL. Trees beginning 1559' from DER, 554' right of centerline, up to 2259' MSL. Tree, bldg, railroad beginning 1811' from DER, 192' left of centerline, up to 2246' MSL. Bldg 2500' from DER, 882' left of centerline, 2254' MSL. Pole beginning 3001' from DER, 544' left of centerline, up to 44' AGL/2271' MSL. Pole beginning 3004' from DER, 770' left of centerline, up to 48' AGL/2277' MSL. Pole beginning 3116' from DER, 1021' right of centerline, up to 2309' MSL. Sign beginning 3338' from DER, 279' left of centerline, up to 2286' MSL. Communication twr 4521' from DER, 703' right of centerline, 2332' MSL. Pole 1.4 NM from DER, 2804' left of centerline, 100' AGL/2444' MSL. Pole beginning 1.5 NM from DER, 2835' left of centerline, up to 100' AGL/2455' MSL. Pole, communication twr beginning 1.6 NM from DER, 2072' left of centerline, up to 100' AGL/2463' MSL. Pole 1.7 NM from DER, 2964' left of centerline, 1365' AGL/2469' MSL.

Rwy 25L, bldg 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL. Railroad, pole beginning 1856' from DER, 794' left of centerline, up to 2215' MSL. Railroad 2067' 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 2375' from DER, 781' left of centerline, up to 2232' MSL. Tree, railroad beginning 2527' from DER, 751' left of centerline, up to 2233' MSL. Pole 2860' from DER, 812' left of centerline, 36' AGL/2238' MSL. Pole beginning 3166' from DER, 1092' left of centerline, up to 34' AGL/2243' MSL. Pole beginning 3312' from DER, 1201' left of centerline, up to 35' AGL/2246' MSL. sign, pole, t-twr beginning 3672' from DER, 146' left of centerline, up to 2256' MSL. Pole beginning 4223' from DER, 1394' left of centerline, up to 2274' MSL. Bldg 4554' from DER, 1594' left of centerline, 2277' MSL. Bldg 4686' from DER, 1686' left of centerline, 53' AGL/2279' MSL. Bldg 4718' from DER, 1756' left of centerline, 61' AGL/2290' MSL. Bldg 4953' from DER, 1696' left of centerline, 61' AGL/2291' MSL. Trmsn twr 5469' from DER, 1057' left of centerline, 2297' MSL. Pole beginning 5703' from DER, 2020' right of centerline, up to 101' AGL/2309' MSL. Pole 5887' from DER, 1923' left of centerline, 45' AGL/2311' MSL. Pole 5889' from DER, 1722' left of centerline, 46' AGL/2311' MSL. Tower 1 NM from DER, 1845' left of centerline, 80' AGL/2332' MSL. **Rwy 1L**, REIL 23' from DER, 153' left of centerline, 3' AGL/2090' MSL. Sign beginning 1037' from DER, 694' left of centerline, up to 2125' MSL. Bldg 1556' from DER, 551' left of centerline, 2129' MSL. Bldg 1779' from DER, 648' left of centerline, 2147' MSL. Bldgs beginning 1907' from DER, 186' left of centerline, up to 2150' MSL. Bldgs beginning 1977' from DER, 214' left of centerline, up to 2150' MSL. Bldgs beginning 1983' from DER, 251' left of centerline, up to 2150' MSL. Bldg 2093' from DER, 333' left of centerline, 78' AGL/2150' MSL. Bldgs beginning 2095' from DER, 274' left of centerline, up to 83' AGL/2153' MSL. Bldgs beginning 3953' from DER, 1396' left of centerline, up to 162' AGL/2226' MSL. Bldg 4126' from DER, 1089' left of centerline, 2229' MSL. Bldg 4542' from DER, 1399' left of centerline, 183' AGL/2240' MSL. Bldg 4604' from DER, 1365' left of centerline, 186' AGL/2243' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

LAS VEGAS, NV (CON'T)

Rwy 1R, sign 1336 from DER, 447' left of centerline, 60' AGL/2122' MSL. Bldg 609' from DER 539' right of centerline, 28' slg/2095' MSL. **Rwy 19R**, bldg 609' from DER, 538' right of centerline, 28' AGL/2095' MSL. Sign 1336' from DER, 447' right of centerline, 60' AGL/2122' MSL. **Rwy 19L**, grd 60' from DER, 475' right of centerline, 2186' MSL. Grd 151' from DER, 529' right of centerline, 2190' MSL. Bldg beginning 193' from DER, 443' right of centerline, up to 9' AGL/2199' MSL. Ol on DME, NAVAID beginning 261' from DER, 407' right of centerline, up to 2206' MSL. Vehicles on rd, grd, control box beginning 348' from DER, 41' right of centerline, up to 2208' MSL. Pole, vehicles on rd beginning 502' from DER, 434' right of centerline, up to 2218' MSL. Pole, sign, vehicles on rd, flgpl, fence beginning 592' from DER, 277' right of centerline, up to 37' AGL/2234' MSL. Sign, bldg, pole, tree beginning 844' from DER, 265' right of centerline, up to 41' AGL/2240' MSL..tower, fence, sign beginning 961' from DER, 175' right of centerline, up to 41' AGL/2243' MSL.-l twr, pole, rr, rr crossing sign, vehicles on parking lot beginning 1132' from DER, 7' right of centerline, up to 47' AGL/2249' MSL. Railroad beginning 1219' from DER, 448' left of centerline, up to 2225' MSL. Rr, pole beginning 1247' from DER, 76' left of centerline, up to 2226' MSL. Tree, poles , sign beginning 1392' from DER, 14' left of centerline, up to 36' AGL/2238' MSL. Poles, tree, vehicles on parking lot, bldg beginning 1726' from DER, 10' right of centerline, up to 2254' MSL. Pole, tree beginning 1822' from DER, 79' left of centerline, up to 34' AGL/2243' MSL. Ol, 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, bldgs, tree beginning 2043' from DER, 220' right of centerline, up to 2255' MSL. Pole, tree beginning 2133' from DER, 20' left of centerline, up to 36' AGL/2247' MSL. Tree, poles, sign, bldg beginning 2146' from DER, 13' right of centerline, up to 2259' MSL. Pole, bldg, tree beginning 2234' from DER, 13' 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, pole, bldg, beginning 2381' from DER, 38' left of centerline, up to 41' AGL/2257' MSL. Pole, bldg, tree, bldg beginning 2496' from DER, 5' right of centerline, up to 2274' MSL. Bldgs beginning 2738' from DER, 196' right of centerline, up to 57' AGL/2279' MSL. Bldg, tree beginning 2766' from DER, 73' right of centerline, up to 57' AGL/2280' MSL. Bldgs beginning 2767' from DER, 45' left of centerline, up to 36' AGL/2258' MSL. Bldgs, tree beginning 2893' from DER, 6' right of centerline, up to 2288' MSL. Bldgs beginning 2895' from DER, 3' left of centerline, up to 39' AGL/2262' MSL. Bldgs, tree beginning 3032' from DER, 300' right of centerline, up to 61' AGL/2290' MSL. Bldgs, tree, pole beginning 3076' from DER, 57' right of centerline, up to 61' AGL/2291' MSL. Bldgs, sign, poles beginning 3459' from DER, 286' right of centerline, up to 74' AGL/2302' MSL. Bldg 3495' from DER, 54' left of centerline, 52' AGL/2278' MSL. Comm twr 5717' from DER, 157' left of centerline, 80' AGL/2327' MSL. Bldg 5358' from DER, 1759' left of centerline, 110' AGL/2334' MSL. **Rwy 7L**, pole 744' from DER, 442' right of centerline, 30' AGL/2057' MSL. Tree 758' from DER, 168' right of centerline, 2068' MSL. Tree 768' from DER, 589' left of centerline, 2060' MSL. Tree 850' from DER, 184' left of centerline, 2067' MSL. Trees, beginning 886' from DER, 372' right of centerline, up to 2074' MSL. **Rwy 7R**, tower 1457' from DER, 849' left of centerline, 64' AGL/2097' MSL.

LAS VEGAS, NV (CON'T)

NORTH LAS VEGAS (VGT)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3 08045 (FAA)
DEPARTURE PROCEDURE: Use BOULDER CITY
DEPARTURE.

LOGAN, UT

LOGAN-CACHE (LGU)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 8 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
ORIG-C 16231 (FAA)
TAKEOFF MINIMUMS: **Rwy 2**, 2300-2 or std. with a min. climb of 300' per NM to 6200. **Rwy 8**, 1100-1 or std. with a min. climb of 250' per NM to 5000. **Rwys 20, 26**, 2300-2 or std. with a min. climb of 260' per NM to 6200.
DEPARTURE PROCEDURE: **Rwy 2**, turn right.
Rwys 8,20,26, turn left, climb direct LLC VORTAC. Aircraft departing 330° CW 359° climb via LLC R-333 to ROBUD INT; 360° CW 089° climb in LLC VORTAC holding pattern (hold NW, left turns, 153° inbound) to depart LLC VORTAC at or above 8600; 090° CW 219° climb on course; 220° CW 329° climb in LLC VORTAC holding pattern to depart LLC VORTAC at or above 8600. Continue climb on course to MEA or assigned altitude.
NOTE: **Rwy 2**, sign 17' from DER, 199' left of centerline, 2' AGL/3909' MSL. Bushes and tree beginning 13' from DER, 140' right of centerline, up to 3912' MSL. **Rwy 8**, bushes beginning 56' from DER, 172' left of centerline, up to 3911 MSL. **Rwy 20**, bushes beginning 47' from DER, 112' left of centerline, up to 3910' MSL. **Rwy 26**, bush 67' from DER, 239' left of centerline, 3906' MSL. Tree 258' from DER, 531' left of centerline, 3917' MSL. Terrain 15' from DER, 170' right of centerline, 3905' MSL.

LUKE AFB (KLUF),

GLENDALE, AZ
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 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.
TAKE-OFF OBSTACLES: **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.

16315

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

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

MARANA, AZ

MARANA RGNL(AVQ)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG-A 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.

NOTE: **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 10210 (FAA)

DEPARTURE PROCEDURE: use MESA DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 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.

MICHAEL AAF (KDPG),

DUGWAY PROVING

GROUND, UT

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 2 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 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.

NOTE: **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 11349 (FAA)

TAKEOFF MINIMUMS: **Rwys 12,16,30**, NA - Obstacles. DEPARTURE PROCEDURE: **Rwy 34**, use MINDEN (RNAV) DEPARTURE.

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

16315

MOAB, UT

CANYONLANDS FIELD (CNY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 14037 (FAA)

TAKEOFF MINIMUMS: **Rwy 3**, std. with a min. climb of 320' per NM to 5800. **Rwy 21**, std. with a min. climb of 330' per NM to 5400.

DEPARTURE PROCEDURE: **Rwy 3**, turn left, thence...

Rwy 21, turn right, thence...

...climb to 6700 on OAB R-293, then climbing right turn direct OAB VOR/DME. Climb in OAB holding pattern (NW, left turns, 113° inbound) to 10000 then proceed on course.

NOTE: **Rwy 3**, tree 4383' from DER, 1507' right of centerline, 50' AGL/4729' MSL. Road 1749' from DER, 905' left of centerline, 15' AGL/4635' MSL. Tree 3914' from DER, 1166' right of centerline, 50' AGL/4690' MSL. Tree 1.25 NM from DER, 400' right of centerline, 50' AGL/4758' MSL. **Rwy 21**, pole 2026' from DER, 78' right of centerline, 80' AGL/4625' MSL. Pole 2061' from DER, 40' right of centerline, 80' AGL/4625' MSL. Pole 2095' from DER, 857' right of centerline, 80' AGL/4623' MSL. Pole 1980' from DER, 344' right of centerline, 80' AGL/4602' MSL.

NELLIS AFB (KLSV)

LAS VEGAS, NV

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15232

Rwy 3L/R, 10, 200-3° SR-SS

Rwy 21L/R, 10, 200-3° SR-SS

Diverse departure not authorized.

MILITARY: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 300' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vector climb gradient, A/C must depart VFR.

* **CIVIL**: Use published DP, if unable to comply with DP climb gradient file appropriate DP for intended destination and notify clearance delivery and request RADAR Vectors (Climb Gradient of 330' per NM until 12,000 for RADAR Vectors). If unable to comply with RADAR Vectors climb gradient, A/C may use published weather minimums or depart VFR.

TAKE-OFF OBSTACLES: **Rwy 3L**, road 1322' from DER, 801' left of centerline, 15' AGL/1914' MSL. **Rwy 3R**, C-5 on taxiway 1346' from DER, 821' right of centerline, 65' AGL/1934' MSL. Road 3930' from DER, 1403' right of centerline, 15' AGL/1994' MSL. **Rwy 21L**, trees 1642' from DER, 744' left of centerline, 42' AGL/1863' MSL. Trees 1377' from DER, 737' left of centerline, 45' AGL/1866' MSL. Trees 4942' from DER, 540' right of centerline, 90' AGL/1929' MSL. Trees 826' from DER, 760' left of centerline, 38' AGL/1858' MSL. Trees 4596' from DER, 1595' right of centerline, 90' AGL/1929' MSL. Trees 2722' from DER, 342' left of centerline, 60' AGL/1879' MSL. Trees 931' from DER, 725' left of centerline, 60' AGL/1879' MSL. Trees 948' from DER, 627' left of centerline, 60' AGL/1879' MSL. Tree 1011' from DER, 662' left of centerline, 35' AGL/1855' MSL. Tree 1846' from DER, 844' left of centerline, 47' AGL/1868' MSL.

NELLIS AFB (CON'T)

Rwy 21R, road 1406' from DER, 465' right of centerline, 15' AGL/1854' MSL. Trees 4596' from DER, 596' right of centerline, 90' AGL/1929' MSL. Tower 1157' from DER, 1135' right of centerline, 100' AGL/1939' MSL. Building 2276' from DER, 1036' right of centerline, 45' AGL/1884' MSL. Building 2160' from DER, 1077' right of centerline, 38' AGL/1868' MSL. Tower 1462' from DER, 1135' right of centerline, 100' AGL/1938' MSL.

NEPHI, UT

NEPHI MUNI (U14)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 11293 (FAA)

DEPARTURE PROCEDURE: Use NEPHI DEPARTURE.

NOGALES, AZ

NOGALES INTL (OLS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 09351 (FAA)

TAKEOFF MINIMUMS: Use NOGALES DEPARTURE.

OGDEN, UT

OGDEN-HINCKLEY (OGD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 08101 (FAA)

TAKEOFF MINIMUMS: **Rwys 7,16**, NA- Obstacles.

DEPARTURE PROCEDURE: **Rwys 3, 21, 25, 34**, Use EMONT DEPARTURE.

PAGE, AZ

PAGE MUNI (PGA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 16203 (FAA)

TAKEOFF MINIMUMS: **Rwy 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.

NOTE: **Rwy 15**, rising terrain 192' from DER, 272' right of centerline, 4323' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

PANGUITCH, UT

PANGUITCH MUNI (U55)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
ORIG 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.

NOTE: **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 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 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.

NOTE: **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 5 05300 (FAA)

DEPARTURE PROCEDURE: Use DEER VALLEY DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 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 14261 (FAA)

TAKEOFF MINIMUMS: **Rwy 26**, 600-2¼ 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.

NOTE: **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 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.

16315

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

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

16315

PHOENIX, AZ (CON'T)

PHOENIX-MESA GATEWAY (IWA)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1 10042 (FAA)
DEPARTURE PROCEDURE: use PHOENIX
DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 15232 (FAA)

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

PRESCOTT, AZ

ERNEST A LOVE FIELD (PRC)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 14093 (FAA)
DEPARTURE PROCEDURE: Use PRESCOTT
DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 16007 (FAA)

Rwy 3L/R, Heading as assigned by ATC. **Rwy 12**, Heading as assigned by ATC; requires minimum climb of 370' per NM to 7700. **Rwy 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 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.

NOTE: **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)
DEPARTURE PROCEDURE: Use PROVO DEPARTURE.

RENO, NV

RENO/STEAD (RTS)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 3A 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/TAHOE INTL (RNO)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 4 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

RENO, NV (CON'T)

RENO/TAHOE INTL (CON'T)

NOTE: **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 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 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 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.

NOTE: **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 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 16147 (FAA)

DEPARTURE PROCEDURE: Use JITKA DEPARTURE.

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

16315

ST. JOHNS, AZ

ST. JOHNS INDUSTRIAL AIR PARK (SJN)
TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 1B 16315 (FAA)

TAKEOFF MINIMUMS: **Rwys 3, 32, 14**, std. **Rwy 21**,
700-2¼ 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.

NOTE: **Rwy 03**, 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. **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 11 10042 (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 via
heading 189° and FFU R-341 to FFU VORTAC before
proceeding on course. **Rwy 16R**, climb to 10000 via
heading 161° and FFU R-341 to FFU VORTAC before
proceeding on course. **Rwy 16L**, climb to 10000 via
heading 161° and FFU R-341 to FFU VORTAC before
proceeding on course. **Rwy 17**, climb to 10000 via
heading 166° and FFU R-341 to FFU VORTAC before
proceeding on course. **Rwy 32**, climb to 9,000 via
heading 359° and OGD R-153 to OGD VORTAC before
proceeding on course. **Rwy 34L**, climb to 9000 via
heading 341° and OGD R-153 to OGD VORTAC before
proceeding on course. **Rwy 34R**, climb to 9000 via
heading 341° and OGD R-153 to OGD VORTAC before
proceeding on course. **Rwy 35**, climb to 9000 via
heading 336° and OGD R-153 to OGD VORTAC before
proceeding on course.

NOTE: **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 5266'
from DER, 1767' left of centerline, 335' AGL/4549' MSL.
Crane 5196' from DER, 1630' left of centerline, 240'
AGL/4463' MSL. Flag on obstruction light 5153' from
DER, 1619' left of centerline, 249' AGL/4463' MSL.
Aircraft beginning 989' 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.

SOUTH VALLEY RGNL (U42)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES
AMDT 5 11069 (FAA)

TAKEOFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of
300' per NM to 10700. **Rwy 34**, std. with a min. climb of
330' per NM to 9000.

DEPARTURE PROCEDURE: **Rwy 16**, climbing left turn
to 10700 on FFU R-341 to FFU VORTAC, continue climb
in hold in FFU VORTAC holding pattern (hold South,
right turns, 008° inbound) to cross FFU VORTAC at or
above MEA for route of flight. **Rwy 34**, climbing right
turn to 9000 on TCH R-161 to TCH VORTAC, continue
climb in hold in TCH VORTAC holding pattern (hold
Northwest, right turns, 120° inbound) to cross TCH
VORTAC at or above MEA for route of flight.

NOTE: **Rwy 16**, bush 671' from DER, 490' right of
centerline, up to 25' AGL/4629' MSL. Vehicles on road
692' from DER, right and left of centerline, up to 17'
AGL/4626' MSL. Poles beginning 1000' from DER, 465'
right of centerline, up to 30' AGL/4638' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

16315

SCOTTSDALE, AZ

SCOTTSDALE (SDL)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 8 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 21**, use
MARICOPA DEPARTURE.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 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 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 1 11013 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb on heading
360° to 7800 before proceeding on course. **Rwy 6**,
climb on heading 360° to 8100 before proceeding
on course. **Rwy 21**, climb on heading 255° to 7700
before proceeding on course. **Rwy 24**, climb on
heading 243° to 7600 before proceeding on course.

NOTE: **Rwy 3**, trees beginning 89' from DER, 429' left
of centerline, up to 33' AGL/6413' MSL. **Rwy 21**,
trees, tank, terrain, poles and buildings beginning 94'
from DER, 5' left of centerline, up to 76' AGL/6519'
MSL. Trees and terrain beginning 124' from DER, 25'
right of centerline, up to 20' AGL/6431' MSL. **Rwy 24**,
poles and catenary beginning 704' from DER, 4' left of
centerline, up to 59' AGL/6439' MSL. Poles, catenary,
electrical system, and terrain beginning 53' from DER,
78' right of centerline, up to 58' AGL/6438' MSL.

SPRINGERVILLE, AZ

SPRINGERVILLE MUNI (JTC)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

ORIG 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 MUNI (TYL)

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 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.

NOTE: **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 1 88350 (FAA)

TAKEOFF MINIMUMS: **Rwys 11, 29**, NA. **Rwys 15, 33**,
2600-2 or std. with a min. climb of 260' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 15**, turn left. **Rwy 33**,
turn right. Climb direct TPH VORTAC. Continue climb in
holding pattern (NE, right turns, 246° inbound) to depart
TPH VORTAC at or above 8000. Climb on course to
MEA or assigned altitude.

TONOPAH TEST RANGE (KTNX)

TONOPAH , NV

TAKEOFF MINIMUMS AND (OBSTACLE)
DEPARTURE PROCEDURES

AMDT 1 12096

DEPARTURE PROCEDURE: **Rwy 14**: 1000-3 with
minimum climb of 320 ft/NM to 10,700 or 2700-3 for
climb in visual conditions. Climb on a heading between
325° CW to 155° 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 minimum
climb of 260 ft/NM to 5900 or 2700-3 for climb in visual
conditions. Climb on a heading between 295° CW to
005° from DER or Climb in Visual Conditions to cross KZ
-KTNX airport at or above 8100 MSL before proceeding
on course. TAKEOFF OBSTACLES: **Rwy 14**, Terrain,
5582' MSL, 1204' from DER, 823' right of centerline.
Terrain, 5565' MSL, 63' from DER, 517' right of
centerline. Terrain, 5564' MSL, 46' from DER, 480' right
of centerline. Terrain, 5561' MSL, 0' from DER, 353' right
of centerline. Terrain, 5558' MSL, 62' from DER, 200'
right of centerline. Terrain, 5561' MSL, 14' from DER,
292' right of centerline. Terrain, 5561' MSL, 0' from DER,
287' right of centerline. Terrain, 5559' MSL, 0' from DER,
222' right of centerline. Surveyed terrain, 5560' MSL,
215' from DER, 427' right of centerline. **Rwy 32**, Terrain,
5476' MSL, 0' from DER, 500' left of centerline. Terrain,
5476' MSL, 19' from DER, 465' left of centerline. Terrain,
5476' MSL, 110' from DER, 529' left of centerline.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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

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

TOOELE, UT

BOLINDER FIELD-TOOELE VALLEY (TVY)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 3 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.

NOTE: **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 10210 (FAA)

TAKEOFF MINIMUMS: **Rwys 6L, 15, 24R, 33, NA, ATC**.

DEPARTURE PROCEDURE: **Rwys 6R, 24L**, use ALMON DEPARTURE.

TUCSON INTL (TUS)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 5 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...

Rwy 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.

TUSCON, AZ (CON'T)

TUSCON INTL (CON'T)

NOTE: **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.

VERNAL, UT

VERNAL RGNL (VEL)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

TAKEOFF MINIMUMS: **Rwy 16**, 1500-2 or std with a min. climb of 250' per NM to 7000'. **Rwy 25**, 1500-2 or std. with a min. climb of 390' per NM to 7000'. **Rwy 34**, 1600-2 pr std. with a min. climb of 330' per NM to 7000'.

DEPARTURE PROCEDURE: **Rwys 7,34**, turn right.

Rwys 16,25, turn left. **All aircraft** climb direct VEL. Aircraft departing V391 S-bound climb on course. All others climb in holding pattern (SE, right turns, 322° inbound). Aircraft SW-bound V208 depart VEL at or above 8400', all others depart VEL at or above 9500'. Continue climb on course to MEA or assigned altitude.

WENDOVER, UT

WENDOVER (ENV)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 7 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.

NOTE: **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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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

16315

WILLCOX, AZ

COCHISE COUNTY (P33)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 13122 (FAA)

TAKEOFF MINIMUMS: Use COCHISE DEPARTURE.

WINDOW ROCK, AZ

WINDOW ROCK (RQE)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 03191 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 700-2 or std. with a min. climb of 500' per NM to 8000. **Rwy 20**, 600-2 or std. with a min. climb of 260' per NM to 8200.

DEPARTURE PROCEDURE: **Rwy 2**, turn right. **Rwy 20**, turn left direct to GUP VORTAC before proceeding on course.

NOTE: **Rwy 2**, terrain 3832' from DER, 1025' right of centerline, 6926' MSL. Poles 5220' from DER, 245' right of centerline, 180' AGL/6922' MSL. Tower 7067' from DER, 3072' left of centerline, 71' AGL/7316' MSL. Terrain 7449' from DER, 1612' left of centerline, 6991' MSL. Terrain 8776' from DER, 1851' left of centerline, 7109' MSL. Tree 9665' from DER, 1326' right of centerline, 7340' MSL. Tree 11326' from DER, 355' left of centerline, 7351' MSL. **Rwy 20**, trees 1018' from DER, 620' left of centerline, 30' AGL/6768' MSL.

WINNEMUCCA, NV

WINNEMUCCA MUNI (WMC)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

AMDT 1 87295 (FAA)

TAKEOFF MINIMUMS: **Rwy 2**, 2500-2 or std. with a min. climb of 450' per NM to 6800. **Rwys 14,20**, 2000-2 or std. with a min. climb of 520' per NM to 7500.

DEPARTURE PROCEDURE: **Rwys 14,20**, turn right. **Rwy 2**, turn left. **Rwy 32**, climb straight ahead. All aircraft climb via INA R-326 to 6700 or above within 12 NM, then climbing left turn return to INA VOR/DME via R-326. Continue climb in INA VOR/DME holding pattern (hold NW, right turns, 146° inbound) to depart INA VOR/DME at or above 11000. Southbound aircraft continue via INA R-146 direct Fesko Int. Northbound aircraft continue via INA R-326 and SDO R-144 direct SDO VORTAC.

WINSLOW, AZ

WINSLOW-LINDBERGH RGNL (INW)

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

ORIG 14345 (FAA)

DEPARTURE PROCEDURE: **Rwy 2**, 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.

NOTE: **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. **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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315

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



16315

YUMA MCAS/ YUMA INTL (KNYL)

YUMA, AZ

TAKEOFF MINIMUMS AND (OBSTACLE)

DEPARTURE PROCEDURES

09323

Diverse departures not authorized between 360° CW
055° from 25 NM to 30 NM.

Rwy 3L: Cross DER at or above 35' AGL/228' MSL.
Diverse departures auth. Fr 083° CW 107°, std with
minimum climb of 225'/NM to 3500'.

Rwy 3R: Cross DER at or above 35' AGL/242' MSL.
Diverse departures auth. Fr 083° CW 107°, std with
minimum climb of 225'/NM to 3500'.

Rwy 21L: Cross DER at or above 35' AGL/223' MSL.
Diverse departures auth.

Rwy 21R: Cross DER at or above 35' AGL/227' MSL.
Diverse departures auth.

Rwy 8: Cross DER at or above 35' AGL/231' MSL.
Diverse departures auth. Fr 069° CW 123°, std with
minimum climb of 230'/NM to 3500'.

Rwy 26: Cross DER at or above 35' AGL/230' MSL.
Diverse departures auth.

Rwy 17: Cross DER at or above 35' AGL/217' MSL.
Diverse departures auth. Fr 068° CW 109°, std with
minimum climb of 220'/NM to 3500'.

Rwy 35: Cross DER at or above 35' AGL/231' MSL.
Diverse departures auth.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16315





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
BRYCE CANYON, UT
BRYCE
CANYON (BCE) RNAV (GPS) Rwy 3
Category A, B, 900-2; Category C, 900-2½.

BULLHEAD CITY, AZ
LAUGHLIN/BULLHEAD
INTL (IFP) RNAV (GPS) Rwy 16¹²
RNAV (GPS) Rwy 34³⁴
VOR/DME Rwy 34¹⁵

¹NA when local weather not available.
²Categories A, B, 1200-2; Categories C, D, 1200-3.
³NA when control tower closed.
⁴Categories A, B, 1100-2; Categories C, D, 1100-3.
⁵Categories A, B, 2200-2; Categories C, D, 2200-3.

CEDAR CITY, UT
CEDAR CITY RGNL (CDC) ILS Rwy 20
VOR Rwy 20
Category D, 900-2¾.

ELKO, NV
ELKO RGNL (EKO) LDA/DME Rwy 24¹
VOR/DME-B²
¹Category B, 1000-1½; Category C 1500-3;
Category D, 1900-3.
²Categories 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.

NAME ALTERNATE MINIMUMS
FLAGSTAFF, AZ
FLAGSTAFF
PULLIAM (FLG) ILS or LOC/DME Rwy 21¹²
VOR-A³

¹NA when control tower closed.
²ILS, Categories B, C, D, 700-2.
³Categories A, B, 1300-2; Categories C, D,
1300-3.

FORT HUACHUCA-SIERRA VISTA, AZ
SIERRA VISTA MUNI-
LIBBY AAF (FHU) ILS or LOC Rwy 26
NDB Rwy 26
RNAV (GPS) Rwy 8
VOR Rwy 26

NA when control tower 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/DME Rwy 3
NA when control tower closed.
Category D, 700-2.

VALLE (40G) VOR/DME Rwy 19
NA except for operators with approved weather
reporting service.

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017





ALTERNATE MINS

16315

M3



NAME ALTERNATE MINIMUMS

PHOENIX, AZ (CON'T)

PHOENIX SKY HARBOR

INTL (PHX).....ILS or LOC/DME Rwy 7L¹
ILS or LOC Rwy 8⁴
ILS or LOC Rwy 25L³
ILS or LOC Rwy 26⁶
RNAV (GPS) Y Rwy 7R²
RNAV (GPS) Y Rwy 7L²
RNAV (GPS) Y Rwy 8⁵
RNAV (GPS) Y Rwy 25L²
RNAV (GPS) Y Rwy 25R²
RNAV (GPS) Y Rwy 26²

¹ILS, Categories A, B, C, 700-2; Category D, 800-2½. LOC, Category D, 800-2½.

²Category D, 800-2½.

³ILS, Categories A, B, C, 700-2; Category D, 800-2.

⁴ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

⁵Category C, 800-2½; Category D, 800-2½.

⁶ILS, Categories A, B, 700-2; Category C, 800-2 ¼; Category D, 1100-3; LOC, Category C, 800-2 ¼; Category D, 1100-3.

PRESCOTT, AZ

ERNEST A LOVE

FIELD (PRC).....ILS or LOC/DME Rwy 21L¹²
RNAV (GPS) Y Rwy 3R⁴
RNAV (GPS) Rwy 12⁴
RNAV (GPS) Rwy 21L⁴
VOR Rwy 12³

¹NA when control tower closed.

²ILS, Category B, 700-2; Category C, 1100-3; Category D, 1700-3. LOC, Category C, 1100-3; Category D, 1700-3.

³Category D, 900-3.

⁴Category C, 1100-3; Category D, 1700-3.

PRICE, UT

CARBON COUNTY RGNL/BUCK DAVIS

FIELD (PUC).....RNAV (GPS) Rwy 1
VOR/DME Rwy 1

Category B, 1000-2; Category C, 1200-3; Category D, 2600-3.

PROVO, UT

PROVO

MUNI (PVU).....ILS or LOC/DME Rwy 13

ILS, Category A, B, C, D, 700-2.

ILS, LOC, NA when control tower closed.

NAME

RENO, NV

RENO/TAHOE

INTL (RNO).....ILS or LOC/DME Rwy 34L²
ILS X or LOC X Rwy 16R¹
ILS Y Rwy 16R¹⁰
ILS Z or LOC Z Rwy 16R¹
LOC Y Rwy 16R³
RNAV (GPS) X Rwy 34L⁴
RNAV (GPS) X Rwy 34R⁴
RNAV (GPS) X Rwy 16L⁵
RNAV (GPS) X Rwy 16R⁶
RNAV (RNP) Y Rwy 16L⁹
RNAV (RNP) Y Rwy 16R⁹
RNAV (RNP) Z Rwy 16L⁷
RNAV (RNP) Z Rwy 16R⁷
VOR-D⁸

¹Categories A, B, 1100-2; Categories C, D, 2100-3.

²ILS, LOC, Categories A, B, 1000-2; Category C, 1000-2½.

³Categories A, B, 1600-2; Categories C, D, 2100-3; Category E, 2300-3.

⁴Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

⁵Categories A, B, 1400-2; Categories C, D, 1400-3.

⁶Categories A, B, 1800-2; Categories C, D, 1800-3.

⁷Categories A, B, C, 800-2½.

⁸Categories A, B, 1600-2; Categories C, D, 1600-3.

⁹Categories A, B, C, D, 800-2½.

¹⁰Categories A, B, C, D, E, 1500-6.

RICHFIELD, UT

RICHFIELD MUNI (RIF)..... RNAV (GPS) Rwy 19
Categories A, B, 2200-2; Category C, 2200-3.

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).....LDA/DME Rwy 19¹
RNAV (GPS) Rwy 1²
RNAV (GPS) Rwy 19¹
VOR/DME-A³

¹Categories A, B, 1100-2, Categories C, D, 1100-3.

²Categories A, B, 900-2; Categories C, 900-2½.

³Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ALTERNATE MINS

16315

M3

SW-4



RADAR MINS


N1

16315

RADAR INSTRUMENT APPROACH MINIMUMS

FALLON NAS (KNFL), (VAN VOORHIS FIELD), NV (Amdt 1, 15008 USN)

ELEV 3935

RADAR¹ - (E) 120.85x 121.875x 257.65x 277.4x 308.4x 346.4x 360.2x 

	RWY	GS/TCH/RPI	CAT	DH/	HAT/	CEIL-VIS
				MDA-VIS	HATH	
PAR	31L	3.5°/56/906	ABCDE	4126-¾	200	(200-¾)
	31R	3.5°/53/872	ABCDE	4126-¾	200	(200-¾)
	13L	3.0°/47/885	ABCDE	4134-¾	200	(200-¾)
	13R	3.0°/47/915	ABCDE	4135-¾	200	(200-¾)
	7	3.0°/35/672	ABCDE	4129-¾	200	(200-¾)
ASR	31L		ABCDE	4220-1	294	(300-1)
	31R		ABCDE	4220-1	294	(300-1)
	13R		AB	4340-1	405	(500-1)
			CDE	4340-1½	405	(500-1½)
	13L		AB	4320-1	386	(400-1)
			CDE	4320-1½	386	(400-1½)
		7		AB	4340-1	411
		CDE	4340-1½	411	(500-1½)	
CIR	ALL RWY		AB	4400-1	465	(500-1)
			C	4400-1½	465	(500-1½)
			D	4520-2	585	(600-2)
			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

¹No-NOTAM MP sked: PAR-2200-0000Z++ Thu, ASR-1500-1700Z++ Wed, when ceil-vis 3000-5 and above.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

16315

N1



RADAR MINS

16315

RADAR INSTRUMENT APPROACH MINIMUMS

FORT HUACHUCA SIERRA VISTA, AZ
SIERRA VISTA MUNI-LIBBY AAF (FHU)

Orig, 03MAY12 (14149) (FAA) ELEV 4719

RADAR-1 127.05 254.35   NA

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u>	<u>HAT/</u>	<u>CEIL-VIS</u>
				<u>MDA-VIS</u>	<u>HAA</u>	
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	8		AB	5100 -1	381	(400-1)
			CDE	5100 -1½	381	(400-1½)
	26		AB	5080 -1	481	(400-1)
			CDE	5080 -1½	481	(400-1½)
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 -2½	621	(700-2½)	



Circling NA south of Rwy 8-30.

Procedure NA when control tower is closed.

Circling Rwys 12-21 NA at night.

FORT HUACHUCA SIERRA VISTA, AZ
SIERRA VISTA MUNI-LIBBY AAF (FHU)

Orig-A, 28JUN12 (14149) (FAA) ELEV 4719

RADAR-2 127.05 254.35   NA

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u>	<u>HAT/</u>	<u>CEIL-VIS</u>
				<u>MDA-VIS</u>	<u>HAA</u>	
ASR	26		AB	5180 -1	581	(500-1)
			CDE	5180 -1¾	581	(500-1¾)
	8		AB	5380 -1	661	(700-1)
			CDE	5380 -1½	661	(700-1½)
CIRCLING	26		AB	5180 -1	461	(500-1)
			C	5180 -1¾	461	(500-1¾)
			D	5280 -2	561	(600-2)
			E	5340 -2½	621	(700-2½)
			8	AB	5380 -1	661
C	5380 -1½	661		(700-1½)		
D	5380 -2	661		(700-2)		
E	5380 -2½	661		(700-2½)		

Circling NA south of Rwy 8-30.

ASR NA when tower is closed.

Circling Rwys 12-21 NA at night.

SW-4

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

16315


RADAR MINS

16315

RADAR INSTRUMENT APPROACH MINIMUMS

YUMA MCAS/YUMA INTL (KNYL), AZ (13234 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 

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR	21R ¹	3.0°/54/1062	ABCDE	393-½	200	(200-½)
	3L	3.0°/55/1014	ABCDE	392-¾	200	(200-¾)
PAR W/O GS	3L		ABCDE	560-1	368	(400-1)
PAR W/O GS	21R ²		ABCDE	620-¾	427	(500-¾)
ASR	3L		ABCDE	560-1	368	(400-1)
	3R		AB	600-1	412	(400-1)
			CDE	600-1½	412	(400-1½)
	21L		AB	620-1	413	(500-1)
			CDE	620-1½	413	(500-1½)
	21R ³		AB	620-½	427	(500-½)
			CDE	620-¾	427	(500-¾)
CIRCLING ⁴	ALL RWY		AB	680-1	467	(500-1)
			C	800-1½	587	(600-1½)
			DE	800-2	587	(600-2)

¹When ALS inop, increase CAT ABCDE vis to ¾ mile.

²When ALS inop, increase CAT ABCDE vis to 1¼ miles.

³When ALS inop, increase CAT AB vis to 1 mile, CAT CDE to 1¼ miles

⁴When circling from PAR W/O GS Rwy 21R, increase CAT ABC vis to 1¾ miles, CAT DE to 2¼ miles.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4

RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS

16315

13178

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
LAS VEGAS, NV			
NORTH LAS VEGAS (VGT)	25	12R-30L	4,000 feet
	30L	07-25	4,000 feet
OGDEN, UT			
OGDEN-HINCKLEY (OGD)	03	07-25	4,700 feet
	07	03-21	3,500 feet
	21	16-34	4,600 feet
	34	07-25	3,880 feet
PRESCOTT, AZ			
ERNEST A. LOVE FIELD (PRC)	21L	12-30	5,500 feet

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

13178

13290

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 HS 2 HS 3	Twy H, Twy G, and Rwy 17R. Twy E and ramp area. High volume of traffic. Twy A and run up area. Twy A being confused for Rwy 35L.
LAS VEGAS, NV McCARRAN INTL (LAS)	HS 1 HS 2 HS 3 HS 4 HS 5	Rwy 01R-19L, Twy S and the ramp. Rwy 01R-19L and Rwy 01L-19R, Twy U. Rwy 01R-19L and Rwy 01L-19R, Twy Y. Rwy 07L and Rwy 01L, co-located rwy holding position markings. Tws D and Twy N int is not visible from the ctl twr.
LAS VEGAS, NV NORTH LAS VEGAS (VGT)	HS 1 HS 2 HS 3 HS 4	Rwy hold lines at Twy G and Twy F in close proximity to edge of large paved area. Rwy 12R, Twy G. Rwy 12R, Twy A and Twy B. Rwy 12L, Twy A.
MESA, AZ FALCON FIELD (FFZ)	HS 1	Twy D onto Twy A.
MINDEN, NV MINDEN-TAHOE (MEV)	HS 1 HS 2	Complex int. Frequent crossings for sailplane operations.
OGDEN, UT OGDEN-HINCKLEY (OGD)	HS 1 HS 2	Twy D intersects Rwy 25 at north edge of Rwy 03-21. Wrong rwy departure risk. Confusing twy int in close proximity to rwy.
PHOENIX, AZ PHOENIX DEER VALLEY (DVT)	HS 1 HS 2	Inadvertent Rwy 07R-25L crossings from Twy B5. Inadvertent Rwy 07R-25L crossings from Twy B9.
PHOENIX, AZ PHOENIX-MESA GATEWAY (IWA)	HS 1 HS 2	Twy V, Twy B, and Twy K complex int. Twy B, Twy G and Twy Y at Rwy 12R.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

13290

16147

HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
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 ERNEST A. LOVE FLD (PRC)	HS 1	Not visible from the twr.
	HS 2	Complex int.
	HS 3	Complex int.
	HS 4	Frequent rwy crossings.
PROVO, UT PROVO MUNI (PVU)	HS 1	Twy A and Twy A3 close proximity to ramp and rwys.
RENO, NV RENO/TAHOE INTL (RNO)	HS 1	Twy C, ramp twy, and Rwy 16L-34R.
	HS 2	Wrong rwy ldg risk - Rwy 34L mistaken for Rwy 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.

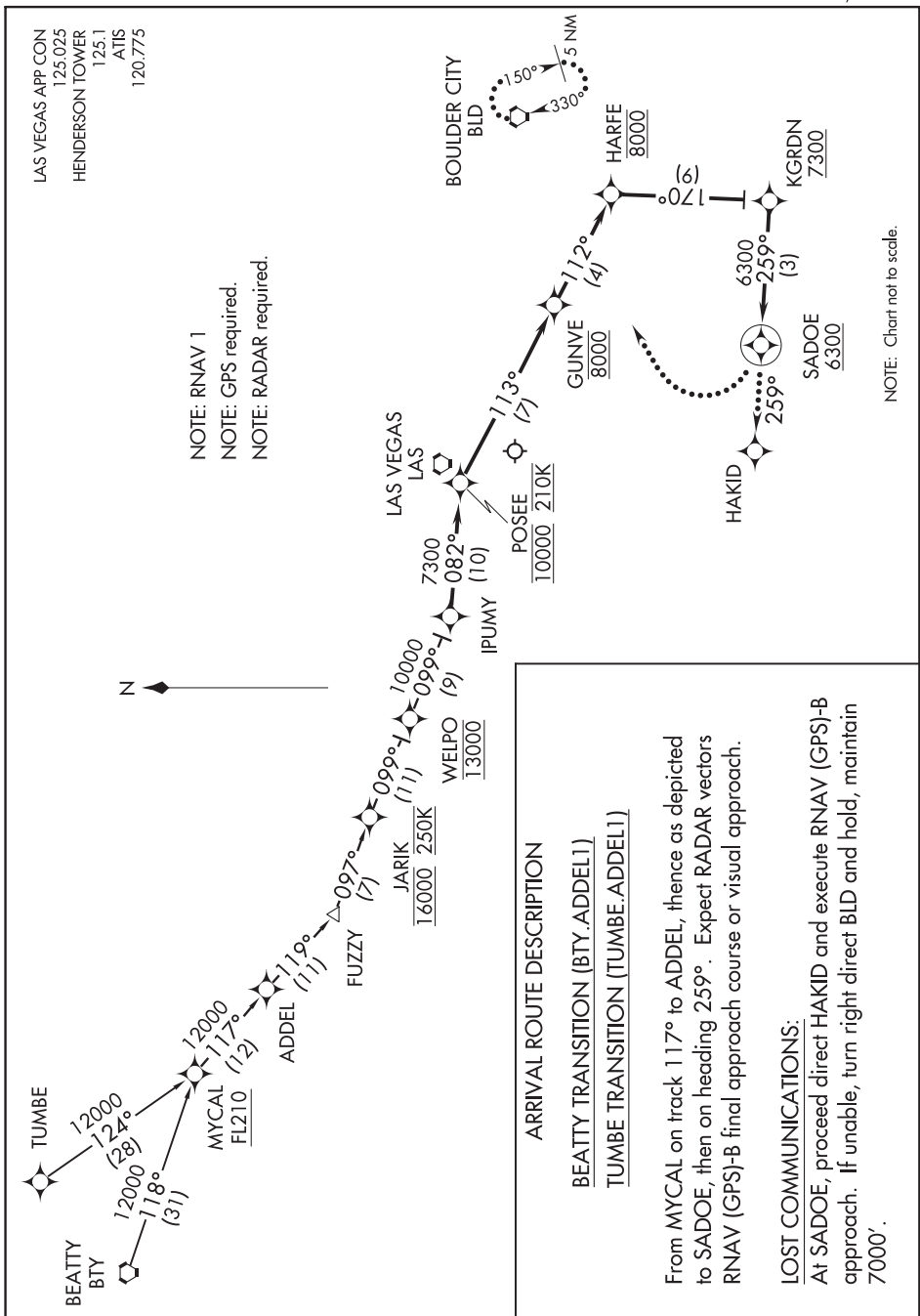
16147

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ADDEL ONE ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017



ADDEL ONE ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

(ANAHO.ANAHO2) 16315
ANAHO TWO ARRIVAL

RENO/TAHOE INTL (RNO)
 RENO, NEVADA

ST-346 (FAA)

NORCAL APP CON
 RWY 16L/R 126.3 353.9
 RWY 34L/R 119.2 279.55
 ATIS 135.8 363.0

GASSI
 N40°34.30'
 W119°04.10'
 H-3
 68

LOVELOCK
 116.5 LLC
 Chan 112
 N40°07.52'-W118°34.66'
 I-9-11, H-3

FL 190
 187°
 (40)

15000
 240°
 (40)

240°

ANAHO
 N39°57.67'-W119°24.94'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
 Expect 16000

Rwy 16R

R-007

MUSTANG
 117.9 FMG
 Chan 126

LOCALIZER 110.9
 I-RNO
 Chan 46

**CAUTION: Intense
 Glider Activity up
 to FL180.**

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

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.

ANAHO TWO ARRIVAL
 (ANAHO.ANAHO2) 29FEB96

RENO, NEVADA
 RENO/TAHOE INTL (RNO)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ARLIN THREE ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

BLYTEH TRANSITION (BLH_ARLIN3): From over BLH VORTAC via BLH R-089 and IWA R-256 to ARLIN INT. Thence, . . .

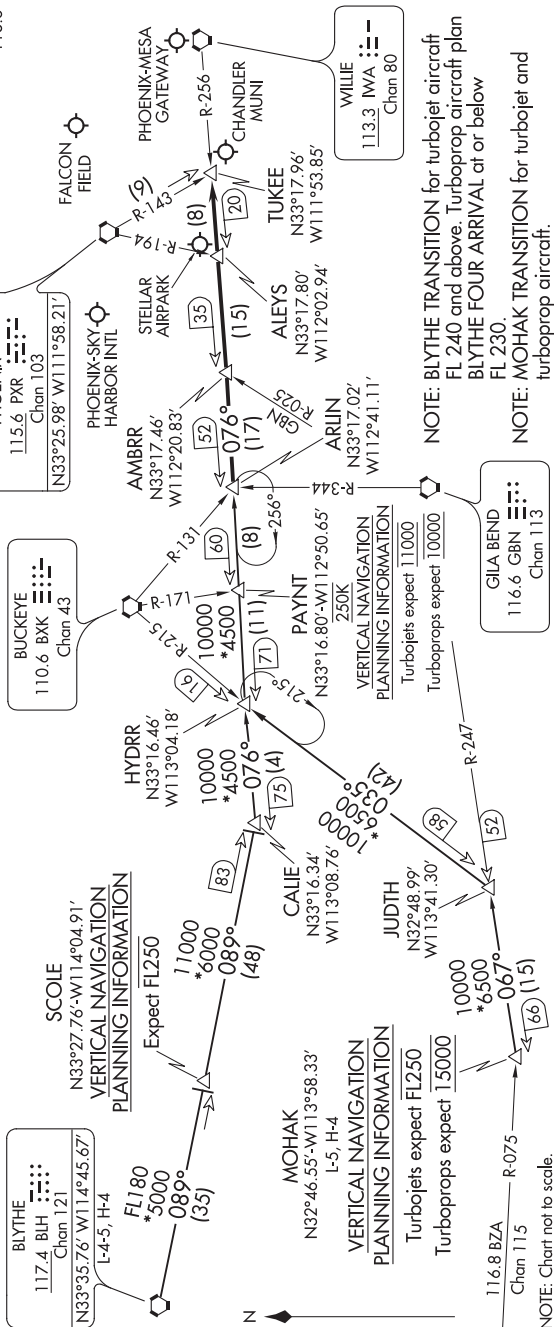
MOHAK TRANSITION (MOHAK_ARLIN3): From over MOHAK INT via GBN R-247 and BXK R-215 to HYDRR INT, then via IWA R-256 to ARLIN INT. Thence, . . .

. . . From over ARLIN INT:

PHOENIX SKY HARBOR INTL: Rwy 7L/R or 8: Expect vectors after ARLIN INT to final approach course; Rwy 25L/R or 26: via IWA R-256 to TUKEE INT. Expect vectors prior to TUKEE INT to final approach course.

SATELLITE AIRPORTS: Expect vectors after passing TUKEE INT.

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



ARLIN THREE ARRIVAL

PHOENIX, ARIZONA

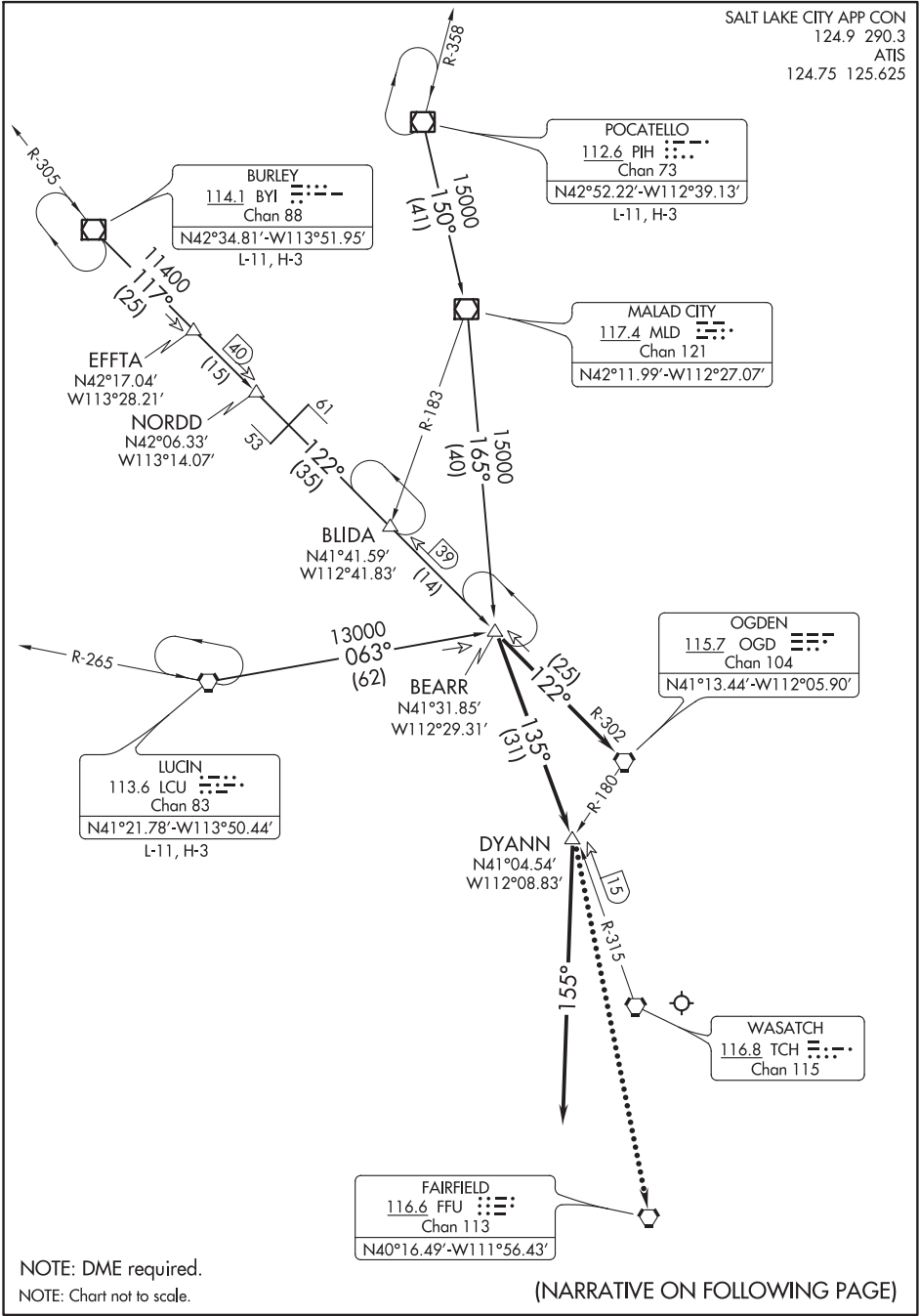
SW-4, 10 NOV 2016 to 05 JAN 2017

BEARR FOUR ARRIVAL

ST-365 (FAA)

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

SALT LAKE CITY APP CON
124.9 290.3
ATIS
124.75 125.625



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BEARR FOUR ARRIVAL

(BEARR.BEARR4) 20APR00

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

ARRIVAL DESCRIPTION

BURLEY TRANSITION (BYI.BEARR4): From over BYI VOR/DME via BYI R-117 and OGD R-302 to BEARR INT. Thence....

LUCIN TRANSITION (LCU.BEARR4): From over LCU VORTAC via LCU R-063 to BEARR INT. Thence....

POCATELLO TRANSITION (PIH.BEARR4): From over PIH VOR/DME via PIH R-150 to MLD VOR/DME, then via MLD R-165 to BEARR INT. Thence....

... LANDING NORTH: Via TCH R-315 to DYANN INT. After DYANN INT fly heading 155° for vectors ILS/DME or VISUAL RWY 34L approach.

... LANDING SOUTH: Via OGD R-302 to OGD VORTAC. Expect ILS/DME RWY 16L approach.

LOST COMMUNICATIONS: LANDING NORTH: In the event of lost communications, at DYANN INT proceed direct FFU VORTAC. Maintain 13,000' until FFU VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BLYTHE FOUR ARRIVAL

ST-322 (FAA)

PHOENIX, ARIZONA

7:10 AM 10 JAN 2017

ARRIVAL ROUTE DESCRIPTION

BLYTHE TRANSITION (BLH.BLH4): From over BLH VORTAC via BLH R-082 to SALOM INT, then via GBN R-285 and IWA R-256 to ARLIN INT. Thence

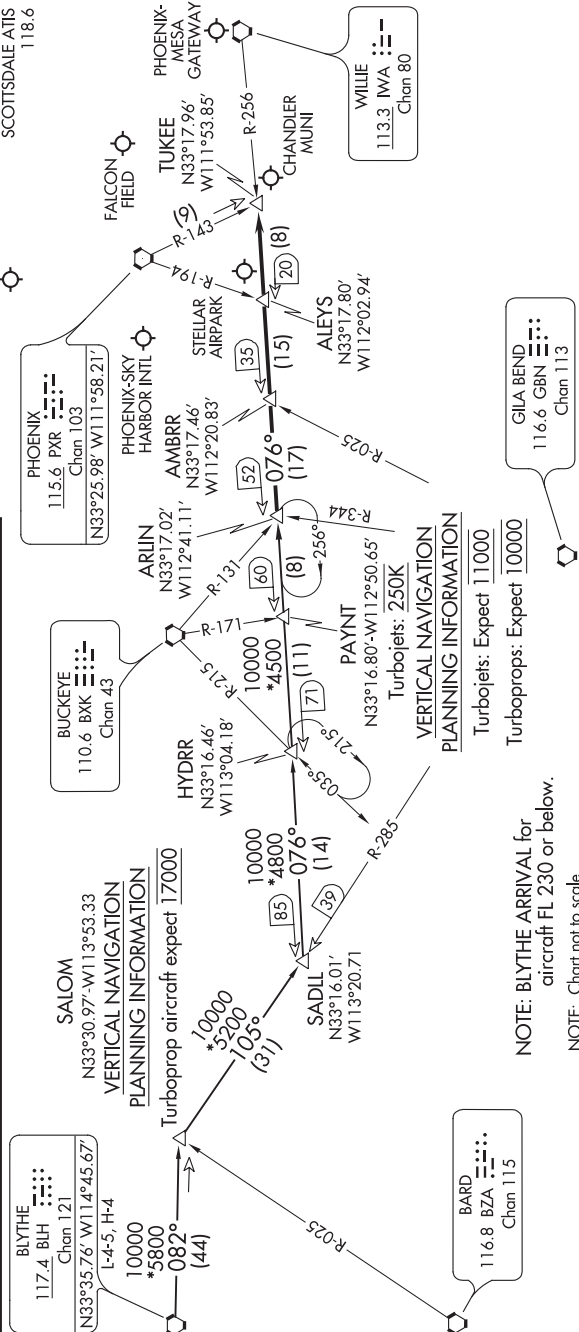
. From over ARLIN INT:

PHOENIX SKY HARBOR INTL: Rwy 7L/R or 8: Expect RADAR vectors after passing ARLIN INT to final approach course; Rwy 25L/R or 26: via IWA R-256 to TUKEE INT, expect RADAR vectors prior to TUKEE INT to final approach course.

ALL SATELLITE AIRPORTS: Expect RADAR vectors after passing TUKEE INT.

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

PHOENIX APP CON
124.1 256.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7L-25R, 7R-25L)
PHOENIX GND CON
119.75 269.2
CHANDLER MUNI ATIS
128.325
FALCON FIELD ATIS
118.25
PHOENIX DEER VALLEY ATIS
126.5
PHOENIX-MESA GATEWAY ATIS
133.5 270.275
PHOENIX SKY HARBOR ATIS
127.575
SCOTTSDALE ATIS
118.6



BLYTHE FOUR ARRIVAL

PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

(BVL.BVL2) 16259

BONNEVILLE TWO ARRIVAL

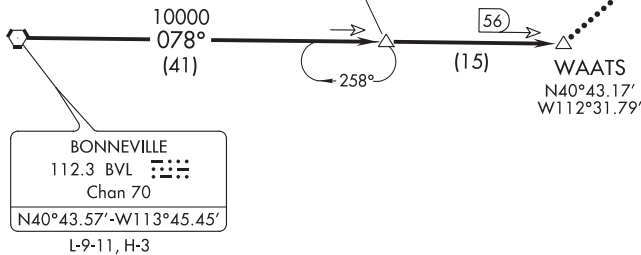
ST-365 (FAA)

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

SALT LAKE CITY APP CON
124.3 322.3
ATIS 124.75 125.625

WASATCH
116.8 TCH
Chan 115
N40°51.02'-W111°58.91'

KNOLE
N40°43.36'-W112°51.52'
TURBOJET AIRCRAFT
Expect 17000.
TURBOPROP AIRCRAFT
Expect 16000.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

BONNEVILLE TWO ARRIVAL

(BVL.BVL2) 31MAR16

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

BRIGHAM CITY THREE ARRIVAL

ST-365 (FAA)

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

SALT LAKE CITY APP CON
124.9 290.3
ATIS
124.75 125.625

DUBOIS
116.9 DBS
Chan 118
N44°05.33' - W112°12.56'
L-11, H-1

ELKHO
N43°23.17'
W111°01.42'

JACKSON
115.4 JAC
Chan 101
N43°37.26' - W110°43.90'
L-11

LAVAH
N42°41.91'
W111°51.36'

MALAD CITY
117.4 MLD
Chan 121

BIG PINEY
116.5 BPI
Chan 112
N42°34.77' - W110°06.55'
L-11, H-3

BRIGHAM CITY
112.9 LHO
Chan 76
N41°47.57' - W112°00.59'

ROCK SPRINGS
116.0 OCS
Chan 107
N41°35.41' - W109°00.92'
L-11, H-3

OGDEN
115.7 OGD
Chan 104
N41°13.44' - W112°05.90'

CARTR
N41°33.66'
W112°02.76'

LANDING SOUTH: After CARTR Int, fly heading 170° to intercept I-MOY Localizer. Proceed inbound. Expect ILS/DME Rwy 16L approach.

*Aprx. dist. CARTR to I-MOY.

DYANN
N41°04.54' - W112°08.83'
LANDING NORTH: After DYANN INT, fly heading 155° for vectors ILS/DME or Visual Rwy 34L approach.

LOCALIZER
I-MOY
Chan 32
109.5

WASATCH
116.8 TCH
Chan 115

FAIRFIELD
116.6 FFU
Chan 113
N40°16.49' - W111°56.43'

NOTE: DME required.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BRIGHAM CITY THREE ARRIVAL

ARRIVAL ROUTE DESCRIPTION

BIG PINEY TRANSITION (BPI.LHO3): From over BPI VOR/DME via BPI R-226 and LHO R-046 to LHO VOR/DME. Thence. . . .

DUBOIS TRANSITION (DBS.LHO3): From over DBS VORTAC via DBS R-154 to LAVAH INT, then via LHO R-353 to LHO VOR/DME. Thence. . . .

JACKSON TRANSITION (JAC.LHO3): From over JAC VOR/DME via JAC R-209 and MLD R-024 to LAVAH INT, then via LHO R-353 to LHO VOR/DME. Thence. . . .

ROCK SPRINGS TRANSITION (OCS.LHO3): From over OCS VOR/DME via OCS R-263 and LHO R-080 to LHO VOR/DME. Thence. . . .

LANDING NORTH:

. . . .From over LHO VOR/DME via LHO R-173 to CARTR INT, then via OGD R-353 to OGD VORTAC, then via OGD R-180 to DYANN INT. After DYANN INT, fly heading 155° for vectors ILS/DME or VISUAL RWY 34L approach.

LANDING SOUTH:

. . . .From over LHO VOR/DME via LHO R-173 to CARTR INT. After CARTR INT, fly heading 170° to intercept I-MOY Localizer, proceed inbound. Expect ILS/DME RWY 16L approach.

LOST COMMUNICATIONS:

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

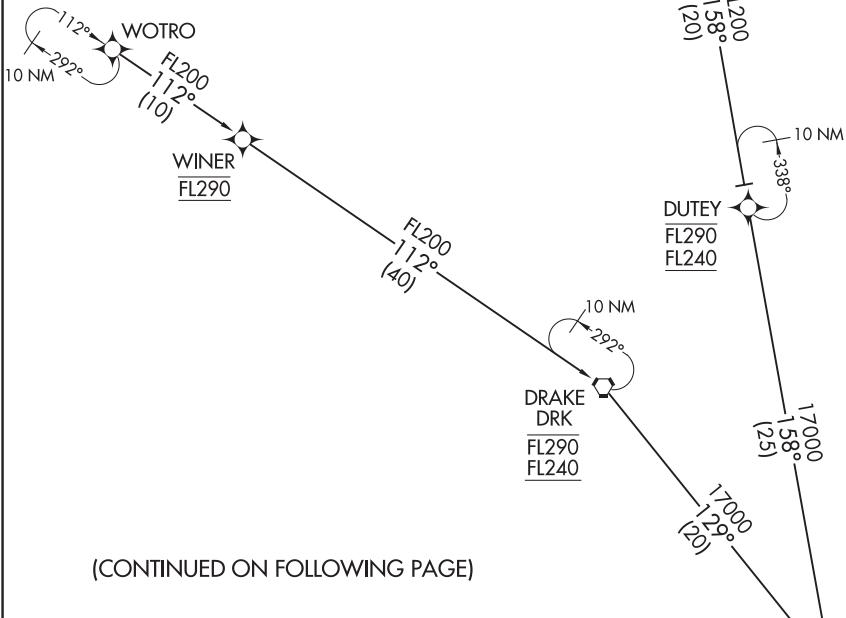
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BRUSR ONE ARRIVAL (RNAV) Transition Routes

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)
ATIS
127.575

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: All Transitions: For non-GPS equipped aircraft landing east:
TFD, BXK, and IWA DMEs must be operational.
- NOTE: TENTS Transition: For non-GPS equipped aircraft landing west:
PXR and IWA DMEs must be operational.



(CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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

MAIER
FL250 270K
FL190
See following page
for Arrival Routes.

BRUSR ONE ARRIVAL (RNAV) Transition Routes

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

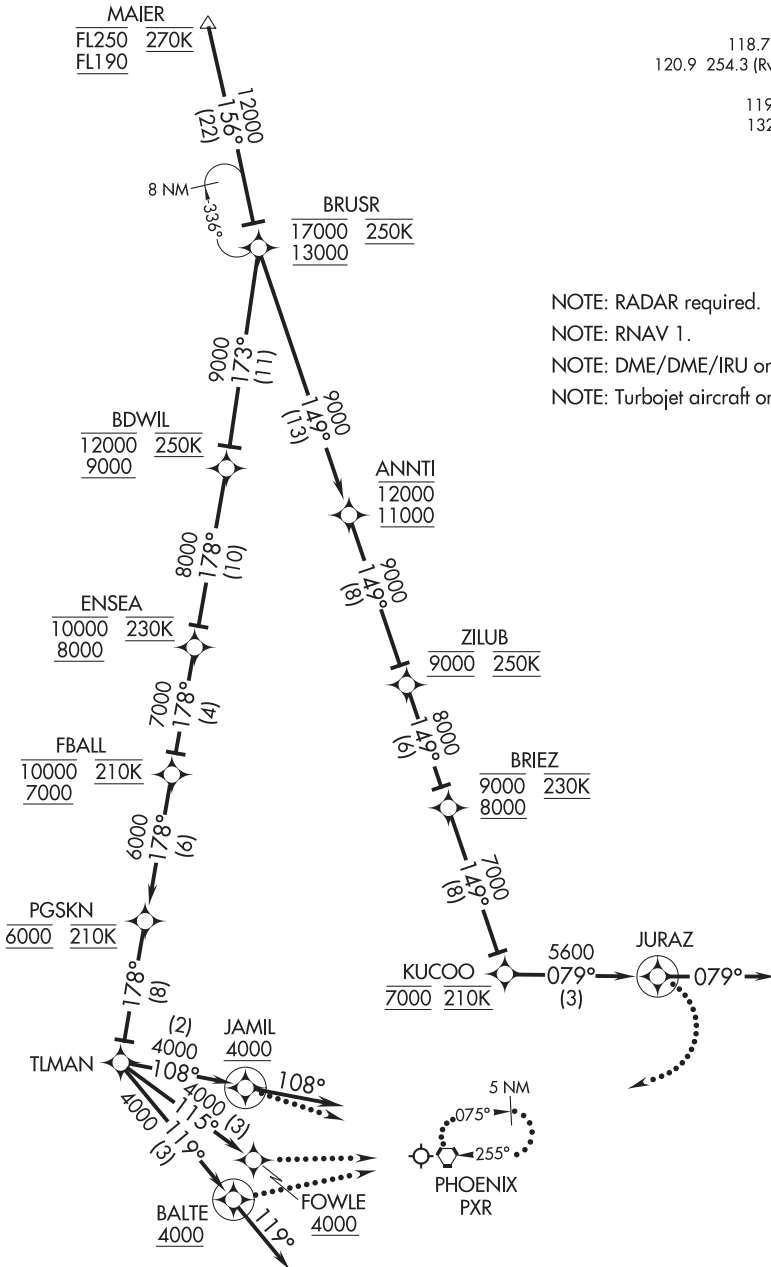
BRUSR ONE ARRIVAL (RNAV) Arrival Routes

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)
ATIS
127.575

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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.

BUNTR TWO ARRIVAL

ST-322 (FAA)

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

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

ZUNI
113.4 ZUN
Chan 81
N34°57.95'-W109°09.27'
L-8, H-4

ST JOHNS
112.3 SJN
Chan 70

JESSE
N34°35.01'
W110°56.63'

SLIDR
N34°42.46'
W109°51.44'
Expect FL310

DOJOE
N34°47.38'
W109°38.15'

GUMMO
N34°19.06'
W111°01.54'

PAYSO
N34°21.27'
W110°47.70'

EAGUL
N34°07.90'
W111°04.96'

PICHR
N34°03.80'
W111°10.24'

DBACK
N33°55.57'
W111°20.77'

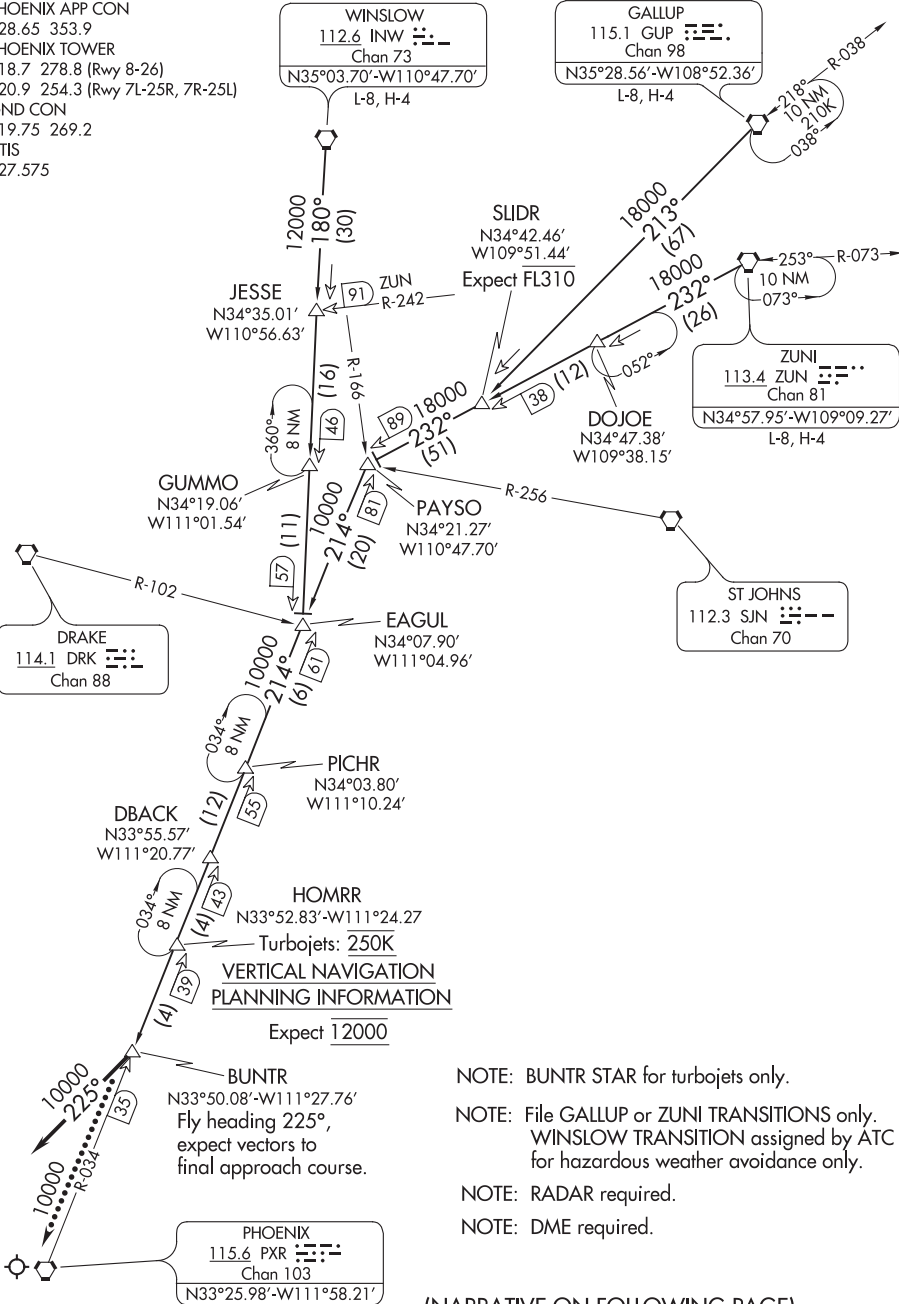
HOMRR
N33°52.83'-W111°24.27'

VERTICAL NAVIGATION PLANNING INFORMATION

Expect 12000

BUNTR
N33°50.08'-W111°27.76'
Fly heading 225°,
expect vectors to
final approach course.

PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'



NOTE: Chart not to scale.

- NOTE: BUNTR STAR for turbojets 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)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BUNTR TWO ARRIVAL

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.BUNTR2): From over GUP VORTAC via GUP R-213 and ZUN R-232 to PAYSO INT, then via PXR R-034 to BUNTR INT. Thence. . . .

WINSLOW TRANSITION (INW.BUNTR2): From over INW VORTAC via INW R-180 to EAGUL INT, then via PXR R-034 to BUNTR INT. Thence. . . .

ZUNI TRANSITION (ZUN.BUNTR2): From over ZUN VORTAC via ZUN R-232 to PAYSO INT, then via PXR R-034 to BUNTR INT. Thence. . . .

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

LOST COMMUNICATIONS: After BUNTR INT, proceed direct PXR VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NORCAL APP CON
119.2 279.55
126.3 353.9
ATIS 135.8 363.0

TRUCK
N39°26.26'-W120°09.71'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION

Expect 16000

12000
002°
(16)

SQUAW VALLEY
113.2 SWR
Chan 79
N39°10.82'-W120°16.18'
L-9, H-3

FMG
R-241

V200-392

LOCALIZER
I-RNO
110.9
Chan 46

MUSTANG
117.9 FMG
Chan 126

344°

030°

**CAUTION: Intense
Glider Activity up
to FL180.**

NOTE: RADAR Required.
NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

From over SWR VOR/DME via SWR R-002 to TRUCK INT/DME. Depart TRUCK INT/DME heading 030° for vectors to final approach.

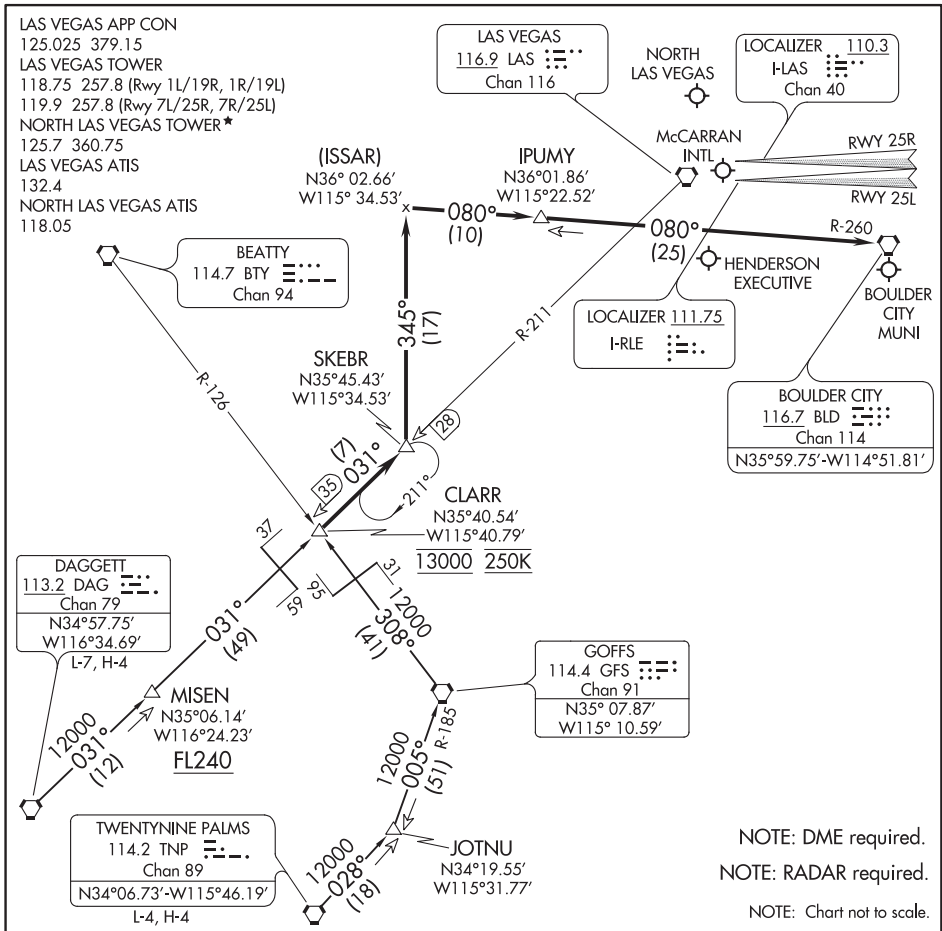
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

CLARR TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.CLARR2): From over DAG VORTAC via DAG R-031 and LAS R-211 to CLARR INT. Thence. . .

TWENTYNINE PALMS TRANSITION (TNP.CLARR2): From over TNP VORTAC via TNP R-028 to JOTNU INT, then via GFS R-185 to GFS VORTAC, then via GFS R-308 and BTY R-126 to CLARR INT. Thence. . .

. . . From over CLARR INT via LAS R-211 to SKEBR INT. Thence. . .

LANDING MC CARRAN INTL: Via heading 345° to intercept the BLD R-260 to BLD VORTAC. Rws 1L/R, 7L/R, and 19L/R expect RADAR vectors for visual approach prior to BLD VORTAC. Rws 25L/R expect ILS approach procedure.

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

CLARR TWO ARRIVAL

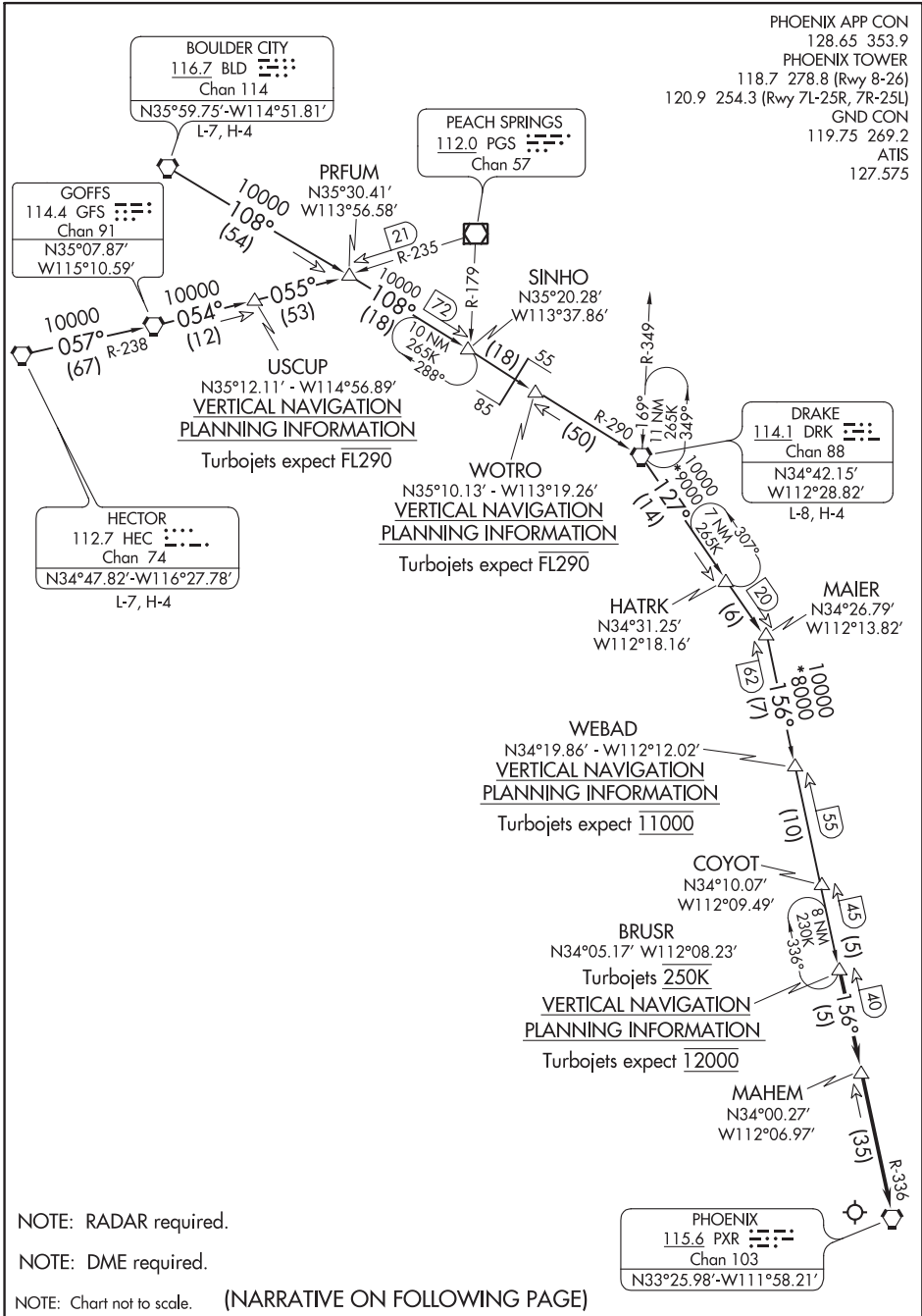
LAS VEGAS, NEVADA

COYOT TWO ARRIVAL

ST-322 (FAA)

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
 ATIS 127.575



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOTE: RADAR required.

NOTE: DME required.

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

COYOT TWO ARRIVAL

(COYOT.COYOT2) 22DEC05

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

BOULDER CITY TRANSITION (BLD.COYOT2): From over BLD VORTAC via BLD R-108 and DRK R-290 to DRK VORTAC, then via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence. . . .

DRAKE TRANSITION (DRK.COYOT2): From over DRK VORTAC via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence. . . .

HECTOR TRANSITION (HEC.COYOT2): From over HEC VORTAC via HEC R-057 and GFS R-238 to GFS VORTAC, then via GFS R-054 and PGS R-235 to PRFUM INT, then via BLD R-108 and DRK R-290 to DRK VORTAC, then via DRK R-127 to MAIER INT, then via PXR R-336 to BRUSR INT. Thence. . . .

. . . .From over BRUSR INT via PXR R-336 to PXR VORTAC. After BRUSR INT, expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: After DRK VORTAC proceed direct to MAIER INT direct PXR VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

CRESO THREE ARRIVAL

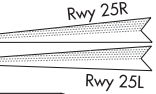
ST-662 (FAA)

LAS VEGAS APP CON
118.4 307.25
LAS VEGAS TOWER
118.75 257.8 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 7L/25R, 7R/25L)
ATIS
132.4

LAS VEGAS
116.9 LAS : : : :
Chan 116

LOCALIZER 110.3
I-LAS : : : :
Chan 40

LOCALIZER 111.75
I-RLE : : : :
Chan 40



WHIGG
N35°30.48'-W115°31.42'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect 12000

CRESO
N35°46.44'
W115°09.91'

BOULDER CITY
116.7 BLD : : : :
Chan 114
N35°59.75'
W114°51.81'

SARAS
N35°21.36'
W115°43.60'

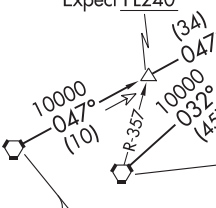
JOKUR
N35°02.51'-W116°23.98'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
Expect FL240

DANBY
N35°18.69'
W115°47.15'

GOFFS
114.4 GFS : : : :
Chan 91

HECTOR
112.7 HEC : : : :
Chan 74
N34°47.82' W116°27.78'
L-7, H-4

DAGGETT
113.2 DAG : : : :
Chan 79
N34°57.75' W116°34.69'
L-7, H-4



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

DAGGETT TRANSITION (DAG.CRESO3): From over DAG VORTAC via DAG R-047 and BLD R-213 to CRESO INT/DME, thence. . . .

HECTOR TRANSITION (HEC.CRESO3): From over HEC VORTAC via HEC R-032 and BLD R-213 to CRESO INT/DME, thence. . . .

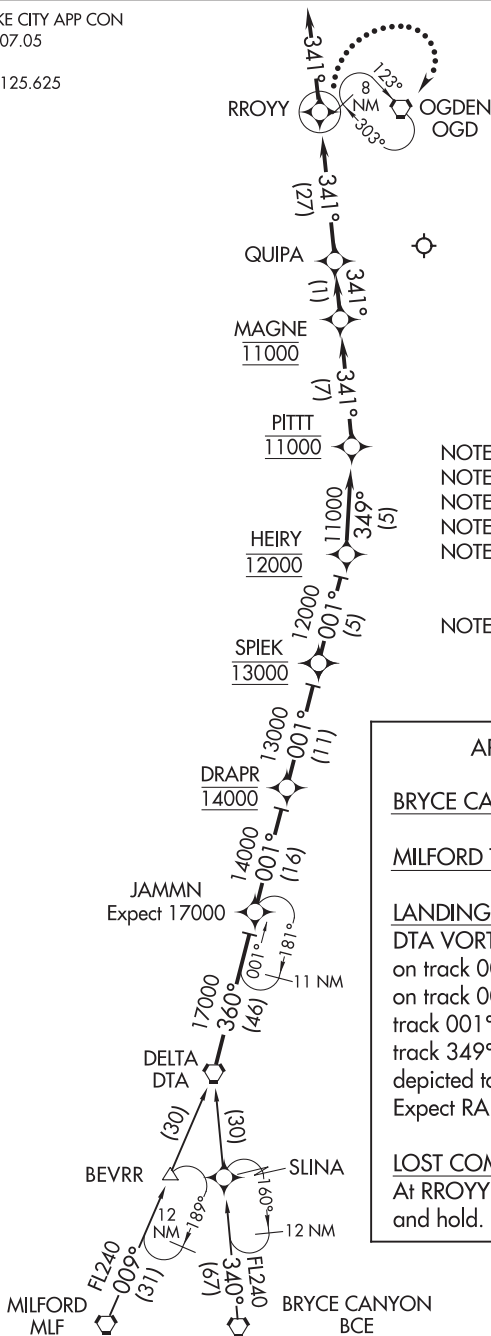
. . . .From over CRESO INT/DME via BLD R-213 to BLD VORTAC. Runways 1, 7 and 19 expect vectors to final approach course. From BLD VORTAC, expect ILS approach Runway 25L.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

CRESO THREE ARRIVAL

SALT LAKE CITY APP CON
128.1 307.05
ATIS
124.75 125.625



- 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.DELTA4)

MILFORD TRANSITION (MLF.DELTA4)

LANDING RUNWAYS 16L/R, and 17: From DTA VORTAC on track 360° to JAMMN, then on track 001° to cross DRAPR at 14000, then on track 001° to cross SPIEK at 13000, then on track 001° to cross HEIRY at 12000, then on track 349° to cross PITTT at 11000, then as depicted to RROYY, then on heading 341°. 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DINGO FIVE ARRIVAL

ST-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

TUCSON APP CON
Rwy 11: 119.4 318.1
Rwy 29: 125.1 269.55
ATIS 123.8 279.65

PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'
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

BASER
N32°33.05'
W111°37.92'

DINGO
N32°29.74'
W111°32.66'

MAVVA
N32°21.95'
W111°20.35'

TUCSON
116.0 TUS
Chan 107

LOCALIZER
111.7
I-TUS
Chan 54

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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....

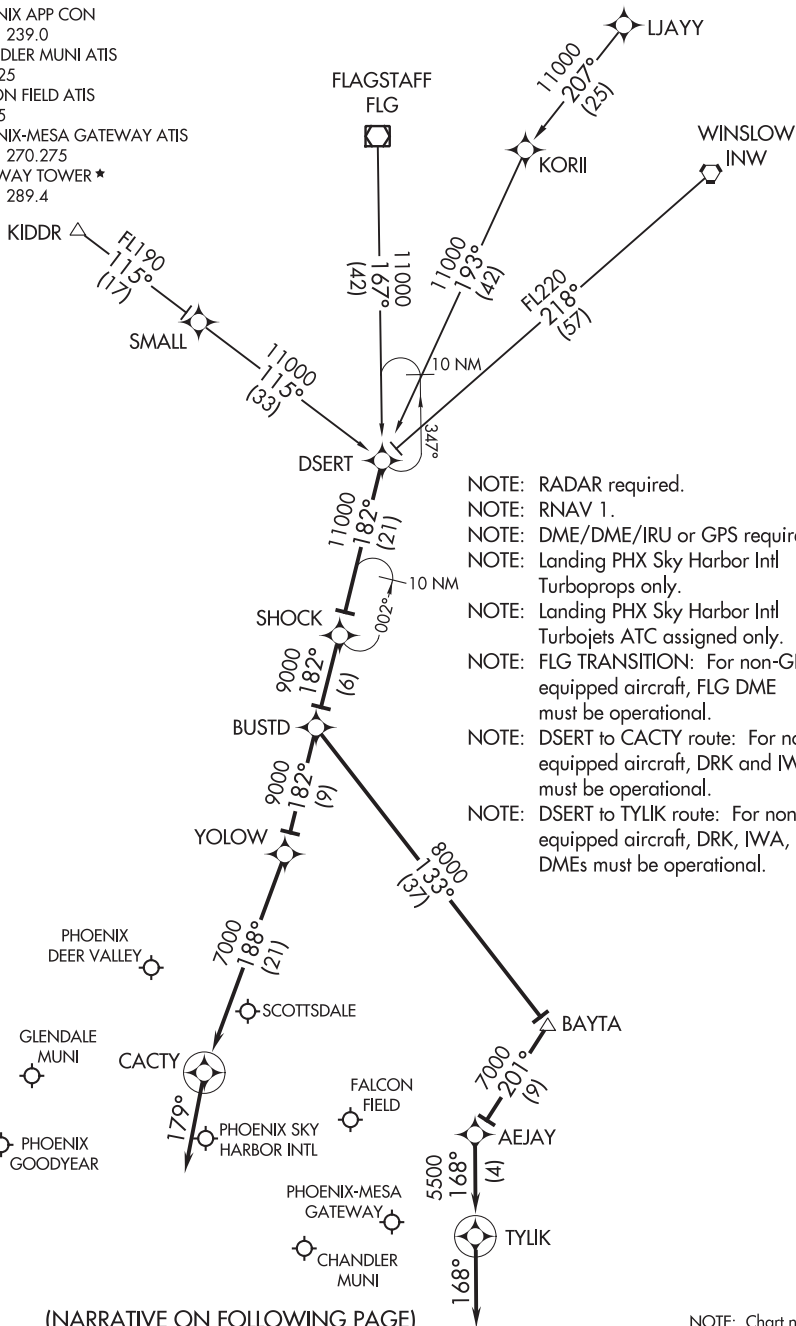
....From over DINGO INT via TUS R-295 to MAVVA INT. Thence, for Runway 11L via heading 075° to intercept I-TUS localizer or TUS VORTAC R-303, and expect approach clearance for Rwy 11L. For Runway 29R expect RADAR vectors to final approach course Runway 29R.

DINGO FIVE ARRIVAL

(DINGO.DINGO5) 09JAN92

TUCSON, ARIZONA
TUCSON INTL (TUS)

PHOENIX APP CON
 120.7 239.0
 CHANDLER MUNI ATIS
 128.325
 FALCON FIELD ATIS
 118.35
 PHOENIX-MESA GATEWAY ATIS
 133.5 270.275
 GATEWAY TOWER ★
 120.6 289.4



- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Landing PHX Sky Harbor Intl Turboprops only.
- NOTE: Landing PHX Sky Harbor Intl Turbojets ATC assigned only.
- NOTE: FLG TRANSITION: For non-GPS equipped aircraft, FLG DME must be operational.
- NOTE: DSERT to CACTY route: For non-GPS equipped aircraft, DRK and IWA DMEs must be operational.
- NOTE: DSERT to TYLIK route: For non-GPS equipped aircraft, DRK, IWA, and PXR DMEs must be operational.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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, 10 NOV 2016 to 05 JAN 2017

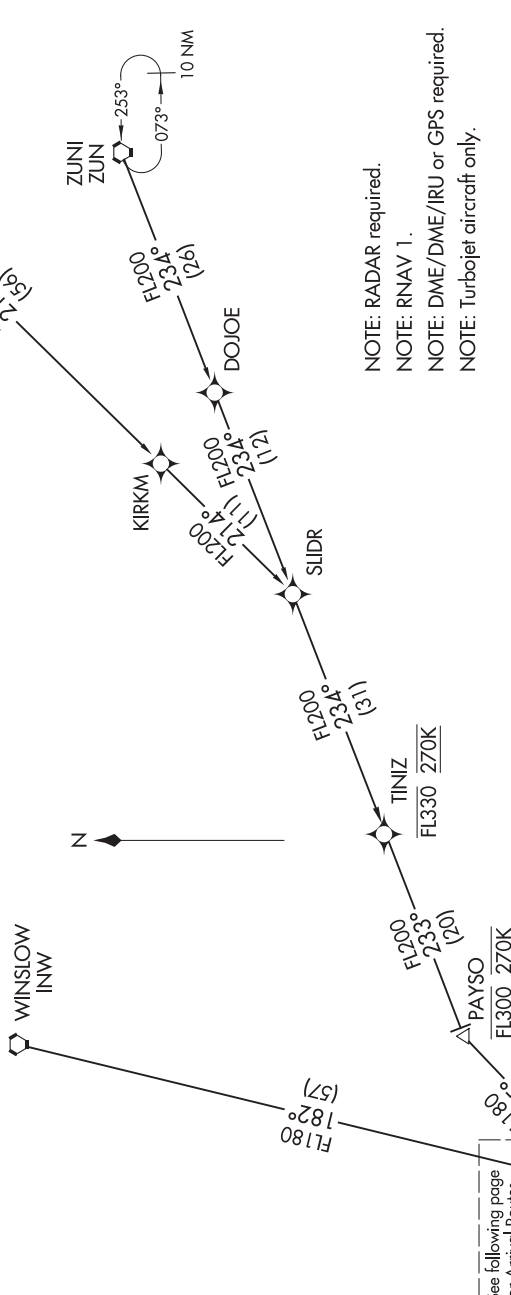
SW-4, 10 NOV 2016 to 05 JAN 2017

EAGUL SIX ARRIVAL (RNAV) Transition Routes

SW-4, 10 NOV 2016 to 05 JAN 2017

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)
ATIS
127.575

NOTE: GALLUP and ZUNI TRANSITIONS: For non-GPS equipped aircraft INW DME must be operational.
NOTE: LANDING EAST: For non-GPS equipped aircraft PXR and IWA DMEs must be operational.
NOTE: File GALLUP or ZUNI TRANSITIONS only. WINSLOW TRANSITION assigned by ATC for hazardous weather avoidance only.



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

NOTE: Chart not to scale.

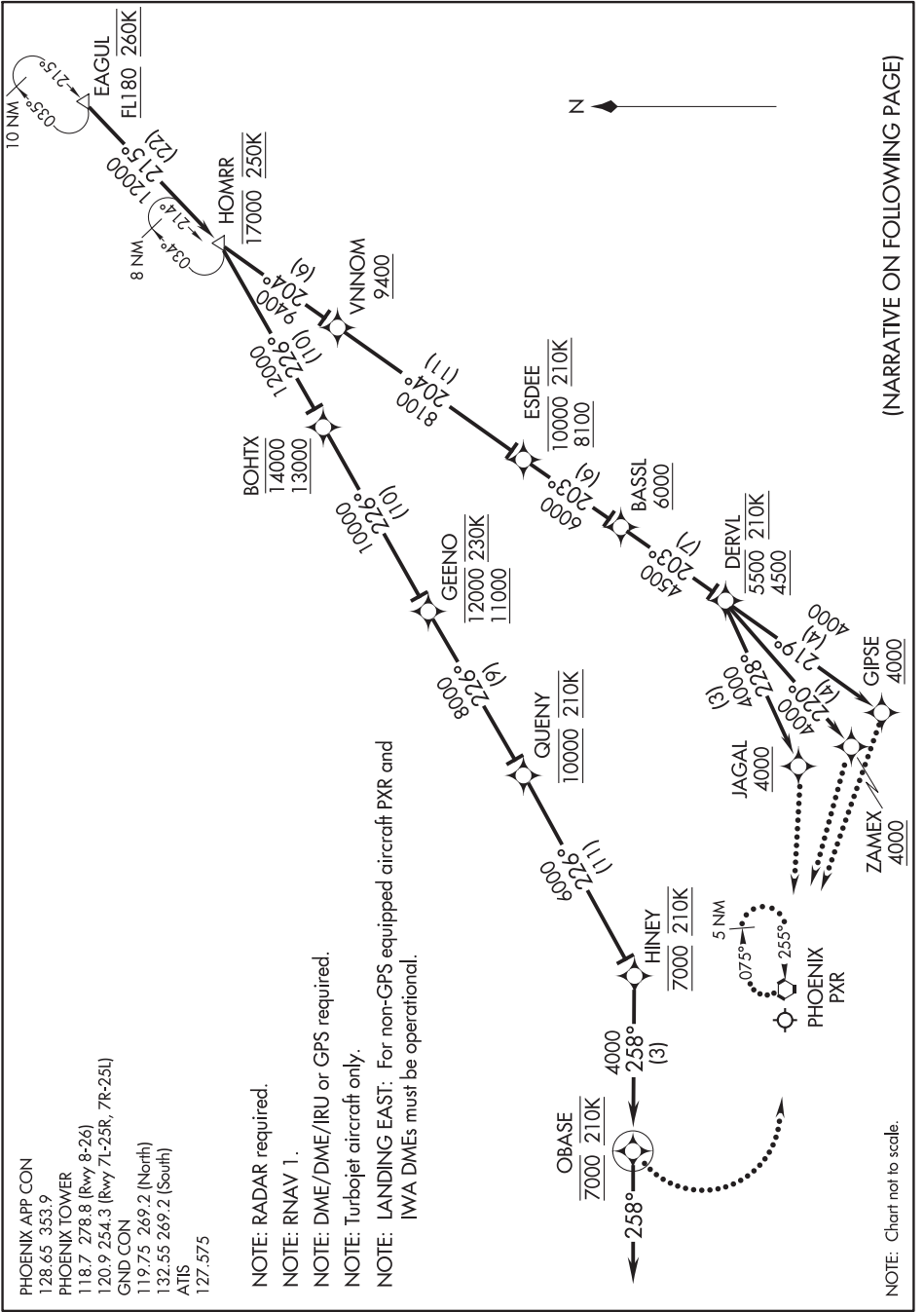
GALLUP TRANSITION (GUP.EAGUL6)
WINSLOW TRANSITION (INW.EAGUL6)
ZUNI TRANSITION (ZUN.EAGUL6)

(CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

EAGUL SIX ARRIVAL (RNAV) Arrival Routes

SW-4, 10 NOV 2016 to 05 JAN 2017



(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

EAGUL SIX ARRIVAL (RNAV) Arrival Routes

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.

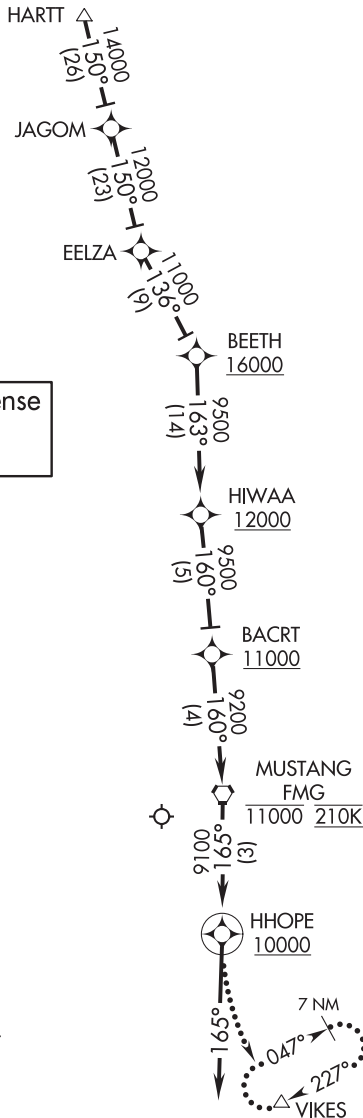
LANDING RUNWAY 26: At JAGAL, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

EELZA TWO ARRIVAL (RNAV)

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.

EELZA TWO ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 7L/25R, 7R/25L)
 NORTH LAS VEGAS TOWER*
 125.7 360.75
 LAS VEGAS ATIS
 132.4
 NORTH LAS VEGAS ATIS
 118.05

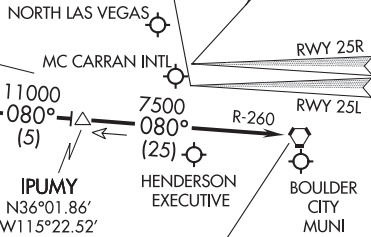
BEATTY
 114.7 BTY
 Chan 94
 N36°48.04'-W116°44.86'
 L-9, H-4

FUZZY
 N36°12.03' - W115°54.02'
TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION
 Expect clearance to cross at
 16,000' at 250K.

MYCAL
 N36°27.61'
 W116°15.86'
 FL210

LOCALIZER 111.75
 I-RLE

LOCALIZER 110.3
 I-LAS
 Chan 40



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

ARRIVAL ROUTE DESCRIPTION

BEATTY TRANSITION (BTY.FUZZY7): From over BTY VORTAC on BTY R-115 to FUZZY INT. Thence . . .
 . . . From over FUZZY via heading 100° to intercept BLD R-260 to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 1L/R, 7L/R, and 19L/R: Expect vectors for visual approach prior to BLD VORTAC.

LANDING MC CARRAN INTL RWYS 25L/R: Expect ILS approach.

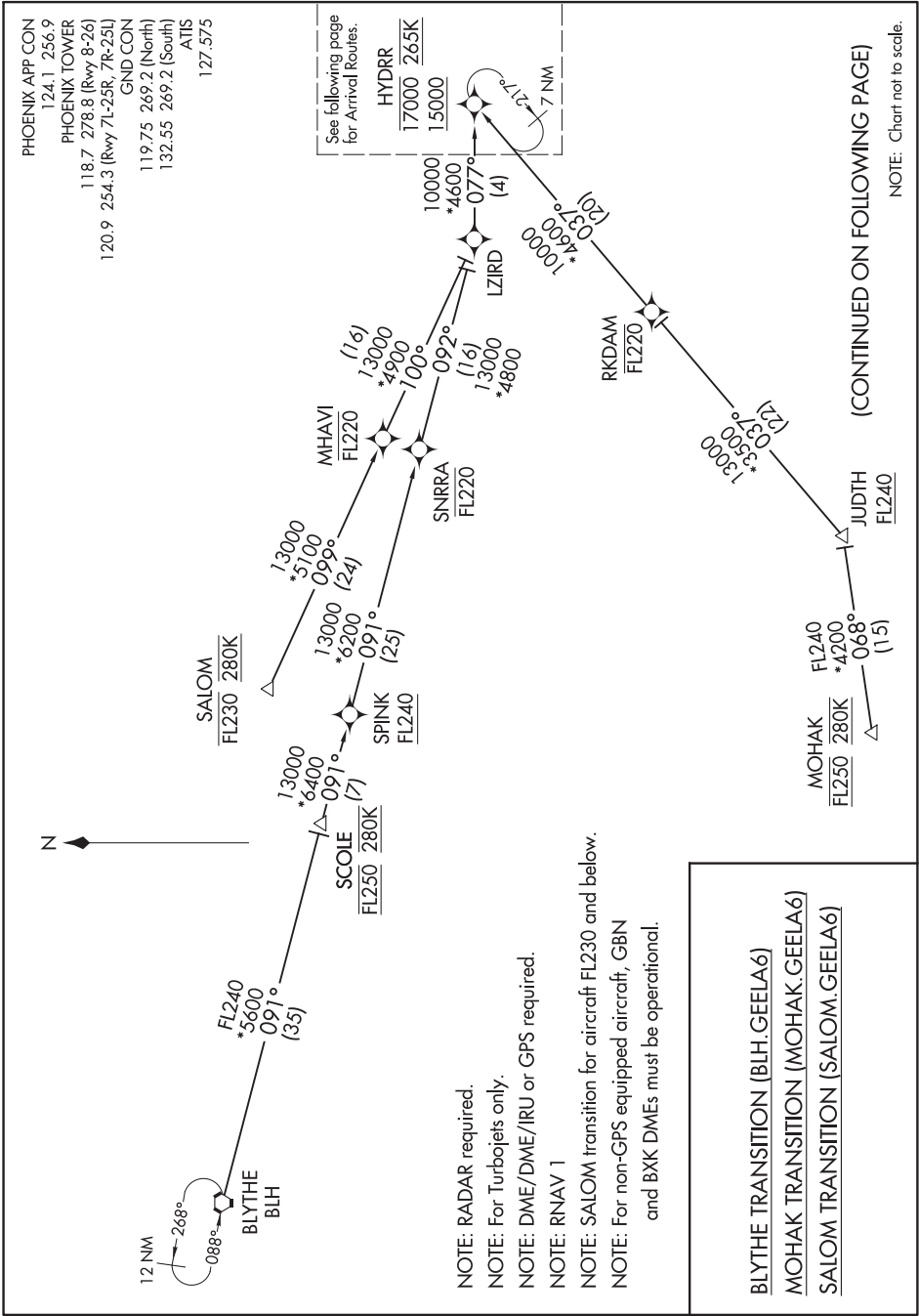
LANDING NORTH LAS VEGAS, HENDERSON EXECUTIVE, and BOULDER CITY MUNI :
 After IPUMY, expect RADAR vectors to airport.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

GEELA SIX ARRIVAL (RNAV) Transition Routes

SW-4, 10 NOV 2016 to 05 JAN 2017



GEELA SIX ARRIVAL (RNAV) Transition Routes

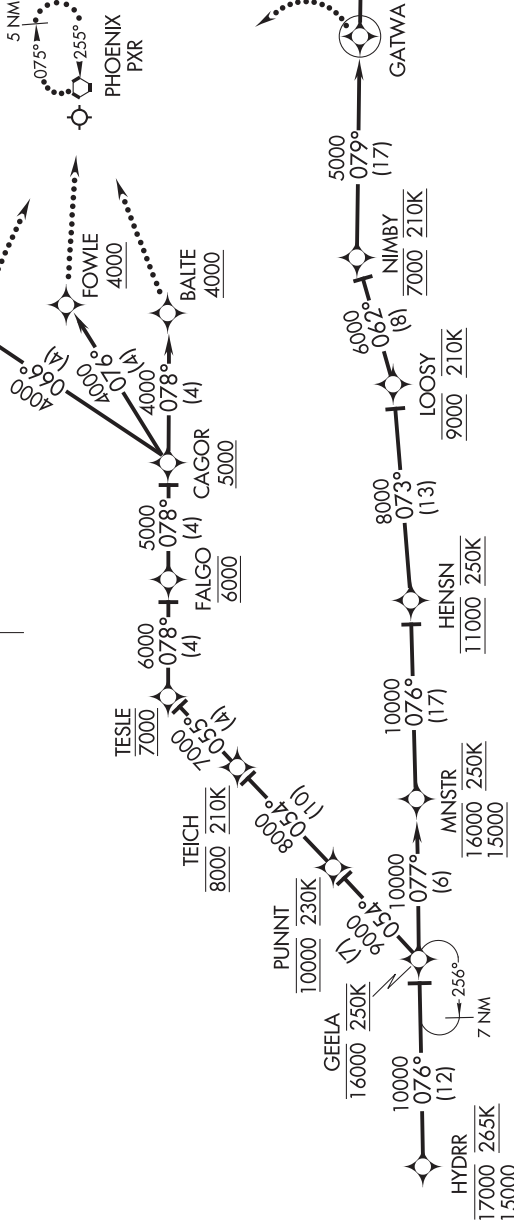
SW-4, 10 NOV 2016 to 05 JAN 2017

GEELA SIX ARRIVAL (RNAV) Arrival Routes

SW-4, 10 NOV 2016 to 05 JAN 2017

PHOENIX APP CON
124.1 256.9
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)
ATIS
127.575

- NOTE: RADAR required.
- NOTE: For Turbojets only.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1
- NOTE: For non-GPS equipped aircraft, GBN and BXK DMEs must be operational.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

GEELA SIX ARRIVAL (RNAV) Arrival Routes

ARRIVAL ROUTE DESCRIPTION

From HYDRR FIX via 076° track to cross GEELA, cross GEELA at/below 16000 at 250K. Thence as depicted on runway transitions.

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

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

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

RUNWAYS 25L, 25R, 26 TRANSITIONS: From GEELA via 077° track to MNSTR, cross MNSTR between 15000 and 16000 at 250K, then via 076° track to HENSN, cross HENSN at 11000 at 250K, then via 073° track to LOOSY, cross LOOSY at 9000 at 210K, then via 062° track to NIMBY, cross NIMBY at 7000 at 210K, then via 079° track to GATWA, then via 078° track. Expect ILS approach RWY 25L-26 (GPS RWY 25R) or 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 GATWA turn left, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LANDING RUNWAY 25R: At GATWA turn left, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

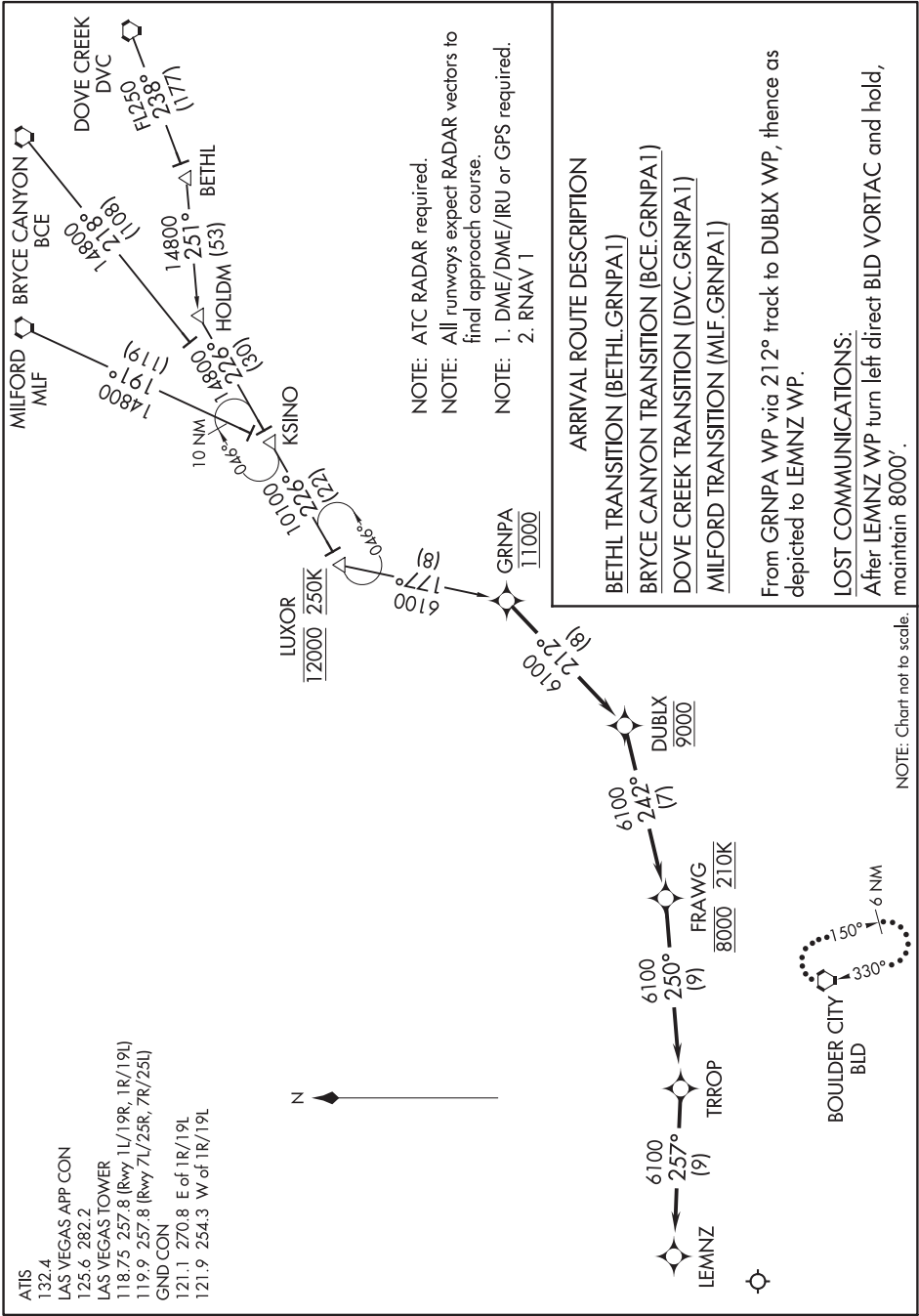
LANDING RUNWAY 26: At GATWA turn left, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

GRNPA ONE ARRIVAL (RNAV)

ST-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017



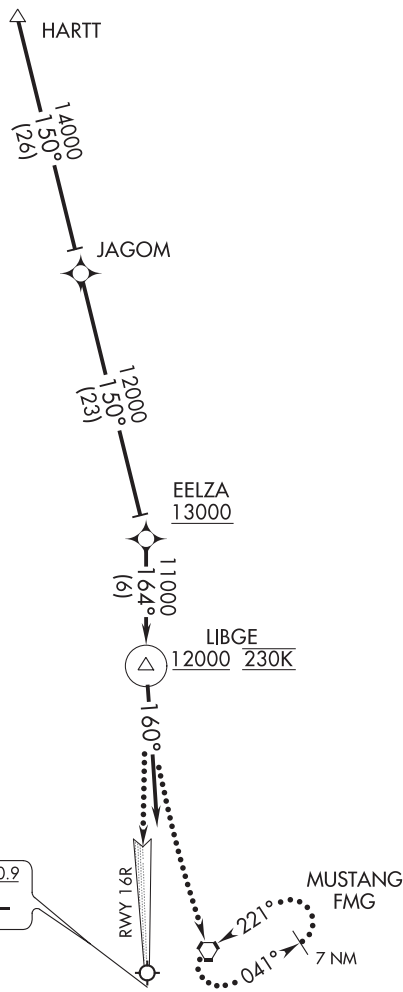
SW-4, 10 NOV 2016 to 05 JAN 2017

GRNPA ONE ARRIVAL (RNAV)

HARTT ONE ARRIVAL (RNAV)

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.**



LOCALIZER 110.9
 I-RNO
 Chan 46

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.

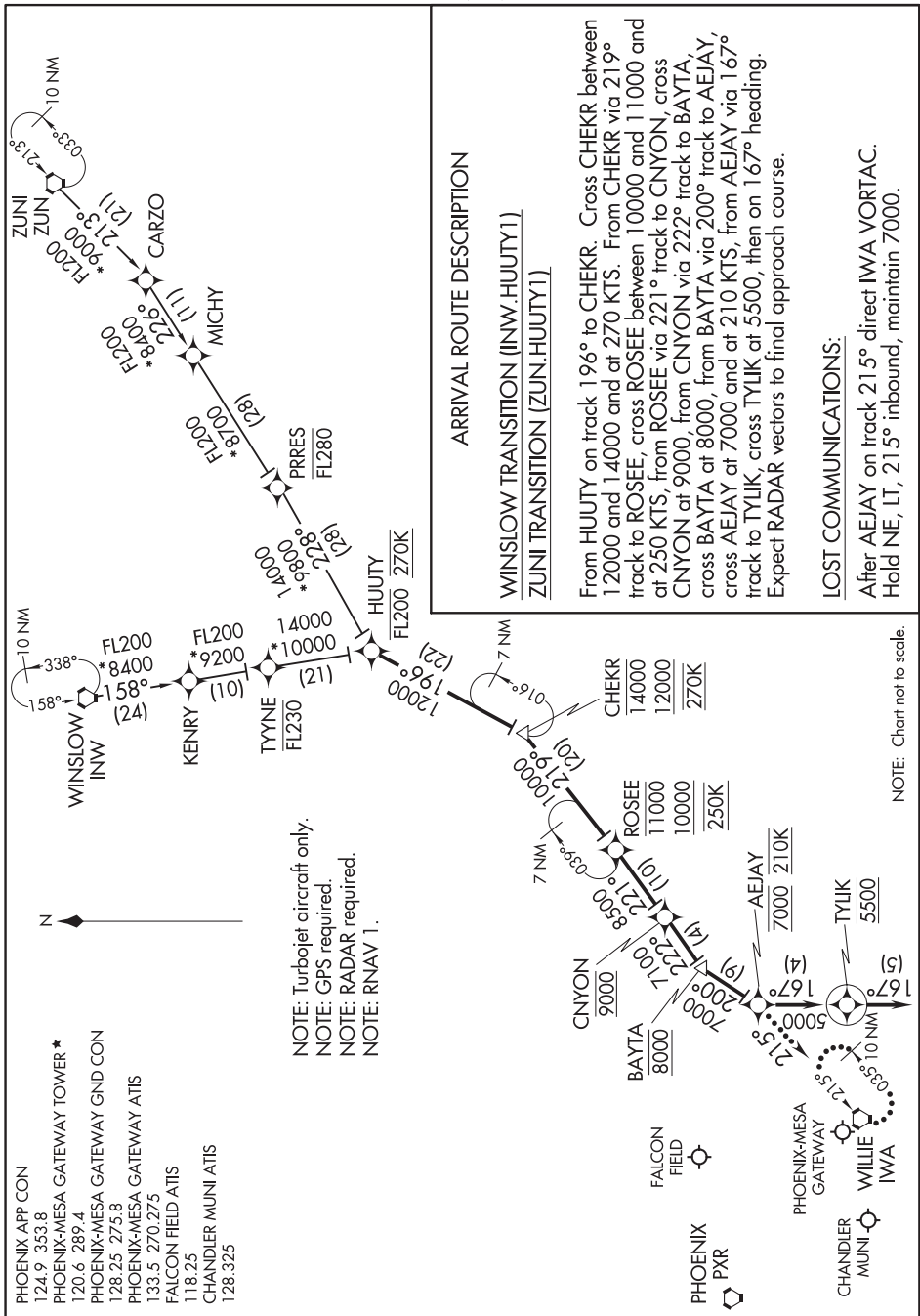
LOST COMMUNICATIONS

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

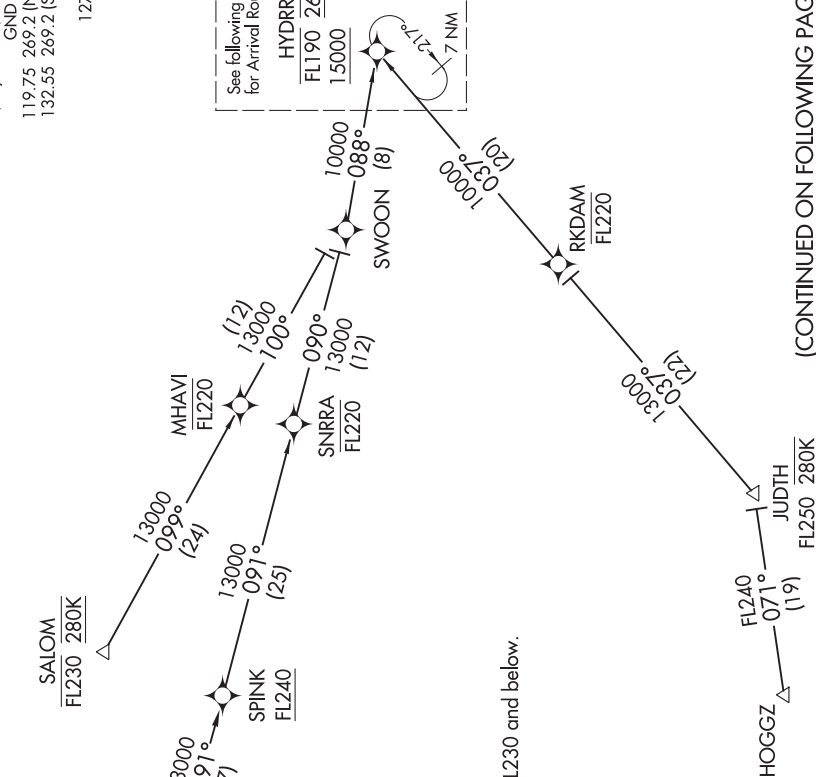


HYDRR ONE ARRIVAL (RNAV) Transition Routes

PHOENIX APP CON
 124.1 256.9
 PHOENIX TOWER
 118.7 278.8 (Rwy 8-26)
 120.9 254.3 (Rwy 7R-25L, 7L-25R)
 GND CON
 119.75 269.2 (North)
 132.55 269.2 (South)
 ATIS
 127.575

See following page
 for Arrival Routes.

HYDRR
 FL190 265K
 15000



(CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For turboprop aircraft only.
- NOTE: SALOM TRANSITION for aircraft FL230 and below.

NOTE: Chart not to scale.

BLYTHE TRANSITION (BLH.HYDRR1)
HOGGZ TRANSITION (HOGGZ.HYDRR1)
SALOM TRANSITION (SALOM.HYDRR1)

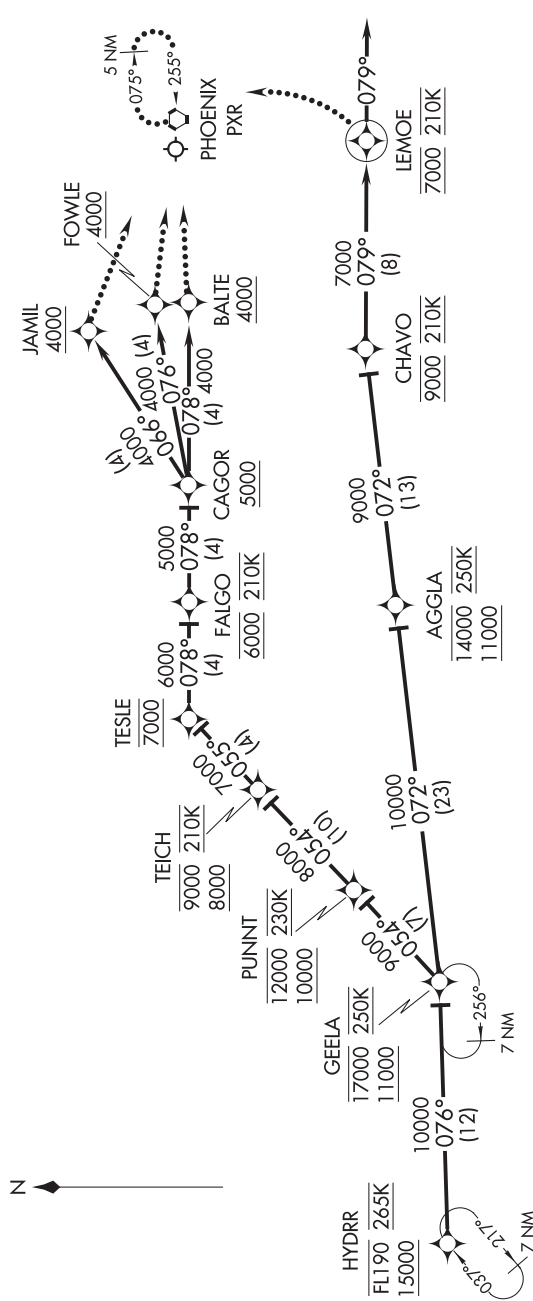
HYDRR ONE ARRIVAL (RNAV) Transition Routes

HYDRR ONE ARRIVAL (RNAV) Arrival Routes

SW-4 10 NOV 2016 to 05 JAN 2017

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

PHOENIX APP CON
124.1 256.9
PHOENIX TOWER
118.7 278.8 (Rwy 8-26)
120.9 254.3 (Rwy 7R-25L, 7L-25R)
GND CON
119.75 269.2 (North)
132.55 269.2 (South)
AITS
127.575



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

HYDRR ONE ARRIVAL (RNAV) Arrival Routes

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.

JAMMN FOUR ARRIVAL

ST-365 (FAA)

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

SALT LAKE CITY APP CON
128.1 307.05
ATIS 124.75 125.625

OGDEN
115.7 OGD
Chan 104
N41°13.45' - W112°05.90'

After CHHIP INT, fly heading 340° for vectors ILS/DME or VISUAL RWY 16R approach.

WASATCH
116.8 TCH
Chan 115

CHHIP
N40°37.16'
W112°03.70'

SPIEK
N40°28.75'
W112°06.58'

FAIRFIELD
116.6 FFU
Chan 113
N40°16.49' - W111°56.43'

JAMMN
N40°02.61'
W112°15.48'

LAZLO
N39°48.14'
W112°20.33'

DELTA
116.1 DTA
Chan 108
N39°18.13' - W112°30.33'

BEVRR
N38°50.49'
W112°45.35'

SLINA
N38°48.26'
W112°26.54'

MILFORD
112.1 MLF
Chan 58
N38°21.62' - W113°00.79'
L-9, H-3

BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35' - W112°18.23'
L-9, H-3

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

(NARRATIVE ON FOLLOWING PAGE)

JAMMN FOUR ARRIVAL

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ARRIVAL DESCRIPTION

BRYCE CANYON TRANSITION (BCE.JAMMN4): From over BCE VORTAC via BCE R-339 and DTA R-158 to DTA VORTAC. Then via DTA R-358 to JAMMN INT. Thence....

MILFORD TRANSITION (MLF.JAMMN4): From over MLF VORTAC via MLF R-007 and DTA R-187 to DTA VORTAC. Then via DTA R-358 to JAMMN INT. Thence....

....From over JAMMN INT via TCH R-179 to CHHIP INT. After CHHIP INT, fly heading 340° for vectors to ILS/DME or VISUAL Rwy 16R approach.

LOST COMMUNICATIONS:

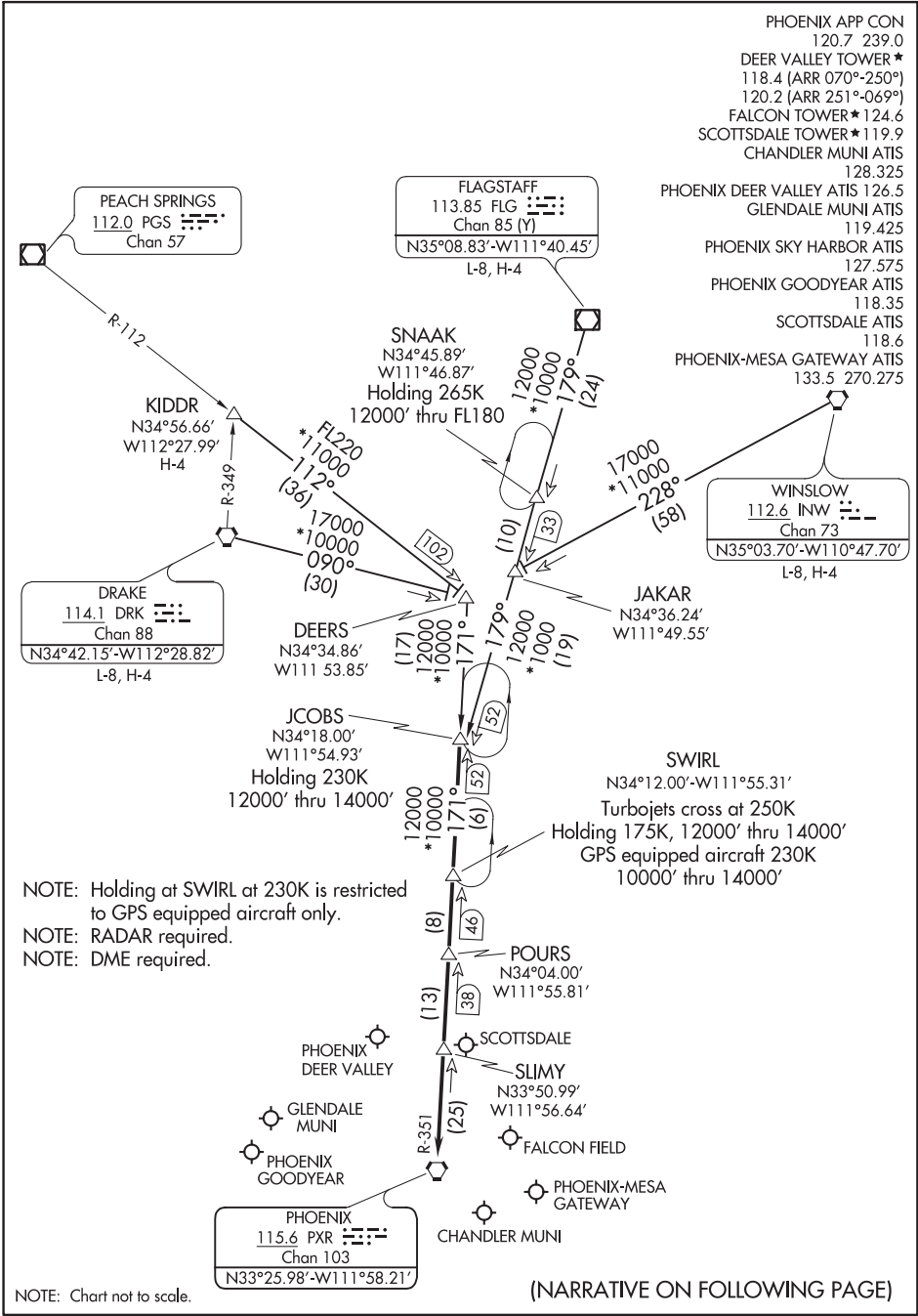
In the event of lost communications, at CHHIP INT proceed direct OGD VORTAC. Maintain 11,000 until OGD VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



NOTE: Holding at SWIRL at 230K is restricted to GPS equipped aircraft only.
 NOTE: RADAR required.
 NOTE: DME required.

(NARRATIVE ON FOLLOWING PAGE)

ARRIVAL ROUTE DESCRIPTION

DRAKE TRANSITION (DRK.JCOBS2): From over DRK VORTAC on DRK R-090 to DEERS INT, then on PXR R-351 to JCOBS INT. Thence....

FLAGSTAFF TRANSITION (FLG.JCOBS2): From over FLG VOR/DME on FLG R-179 to JCOBS INT. Thence....

KIDDR TRANSITION (KIDDR.JCOBS2): From over KIDDR INT on PGS R-112 to DEERS INT then on PXR R-351 to JCOBS INT. Thence....

WINSLOW TRANSITION (INW.JCOBS2): From over INW VORTAC on INW R-228 to JAKAR INT, then on FLG R-179 to JCOBS INT. Thence....

... From over JCOBS INT via PXR R-351 to SWIRL DME, then via PXR R-351 to SLIMY DME, then direct PXR VORTAC. After POURS, expect radar vectors to final approach course.

LOST COMMUNICATIONS: From DRK VORTAC via DRK R-090 to intercept PXR R-351 at DEERS INT direct PXR VORTAC. From FLG VORTAC, proceed direct to JCOBS INT then direct PXR VORTAC. From KIDDR INT to DEERS INT via PGS R-112 to intercept PXR R-351 to PXR VORTAC. From INW VORTAC to JAKAR INT via INW R-228 to intercept FLG R-179 to JCOBS INT to intercept PXR R-351 to PXR VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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
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

DRAKE
114.1 DRK
Chan 88

JESSE
N34°35.01'
W110°56.63'

NEPTN
N34°45.09'
W110°10.50'

ZUNI
113.4 ZUN
Chan 81
N34°57.95'-W109°09.27'
L-8, H-4

GUMMO
N34°19.06'
W111°01.54'

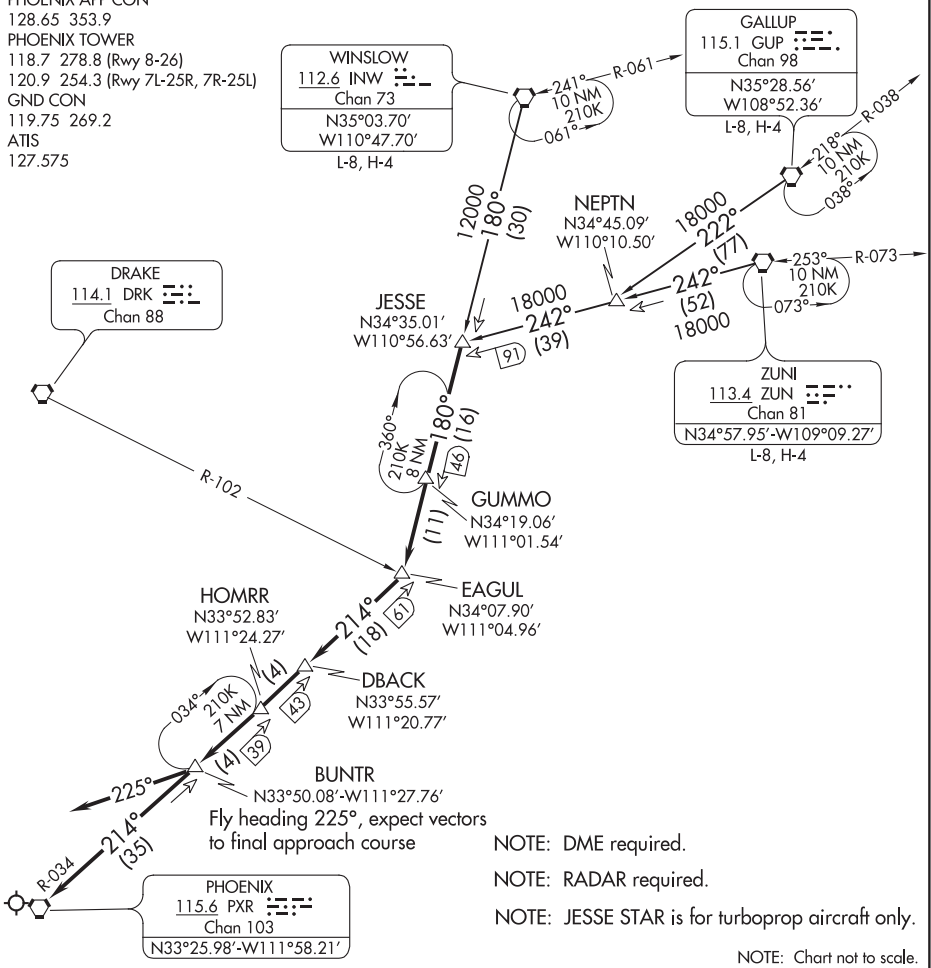
EAGUL
N34°07.90'
W111°04.96'

HOMRR
N33°52.83'
W111°24.27'

DBACK
N33°55.57'
W111°20.77'

BUNTR
N33°50.08'-W111°27.76'
Fly heading 225°, expect vectors
to final approach course

PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'



NOTE: DME required.
NOTE: RADAR required.
NOTE: JESSE STAR is for turboprop aircraft only.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

GALLUP TRANSITION (GUP.JESSE1): From over GUP VORTAC via GUP R-222 and ZUN R-242 to JESSE INT. Thence. . . .
WINSLOW TRANSITION (INW.JESSE1): From over INW VORTAC via INW R-180 to JESSE INT. Thence. . . .
ZUNI TRANSITION (ZUN.JESSE1): From over ZUN VORTAC via ZUN R-242 to JESSE INT. Thence. . . .
. . . .From over JESSE INT via INW R-180 to EAGUL INT, then via PXR R-034 to PXR VORTAC.

LOST COMMUNICATIONS
After DBACK INT, proceed direct to PXR VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LAS VEGAS APP CON
125.9
HENDERSON TOWER
125.1
ATIS
120.775

LAS VEGAS
LAS

BOULDER CITY
BLD

HAKID

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

6300 259°
(3)

SADOE
6300

7300
KGRDN

7100
330°
(20)

JOMIX
10000 250K

7200
360°
(15)

DAGGETT
DAG

9000
087°
(63)

USCUP

7200
024°
(31)

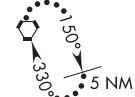
ZELMA

7200
007°
(29)

JOTNU

7200
030°
(18)

TWENTYNINE
PALMS
TNP



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, 10 NOV 2016 to 05 JAN 2017

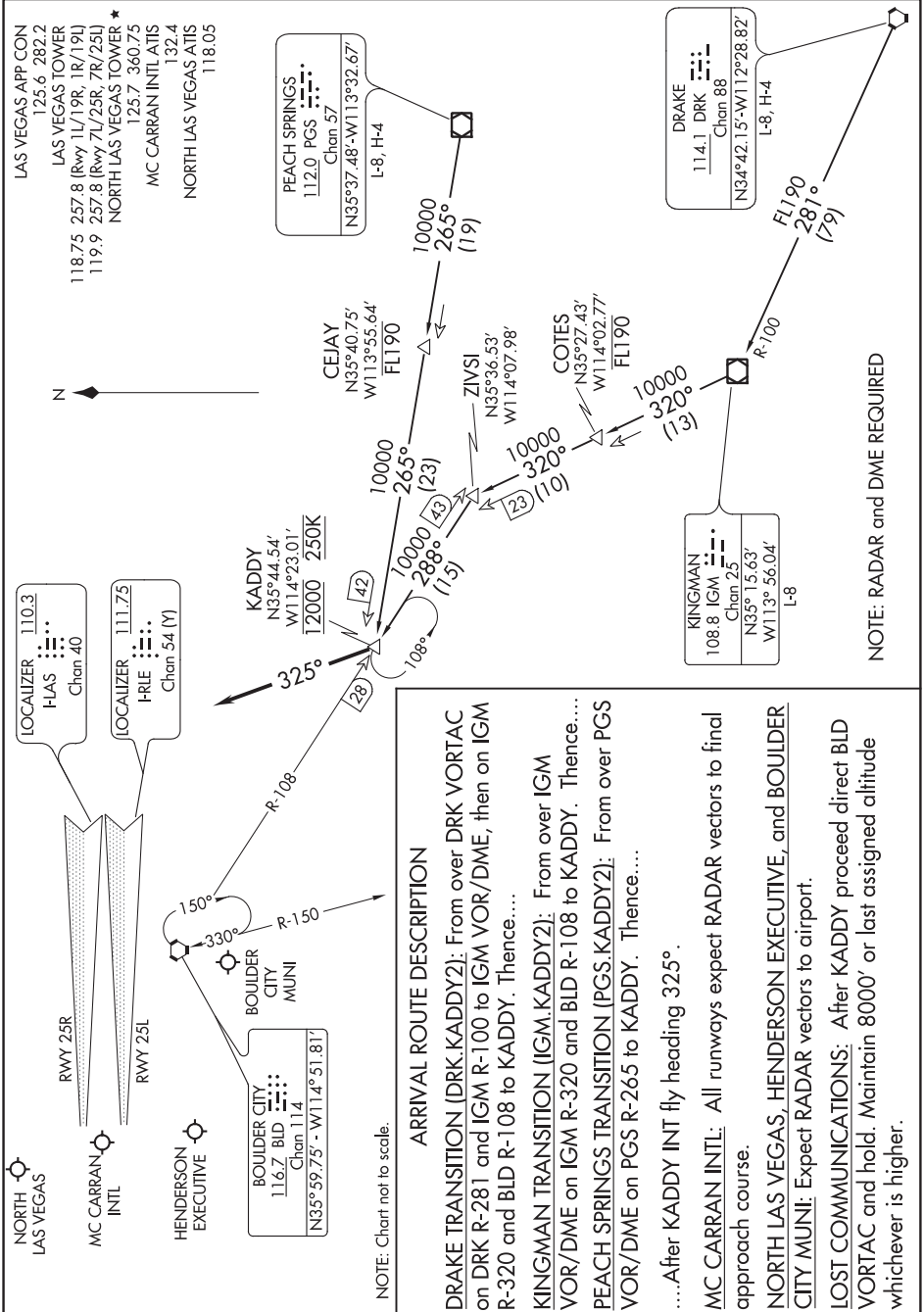
SW-4, 10 NOV 2016 to 05 JAN 2017

KADDY TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017



NOTE: RADAR and DME REQUIRED

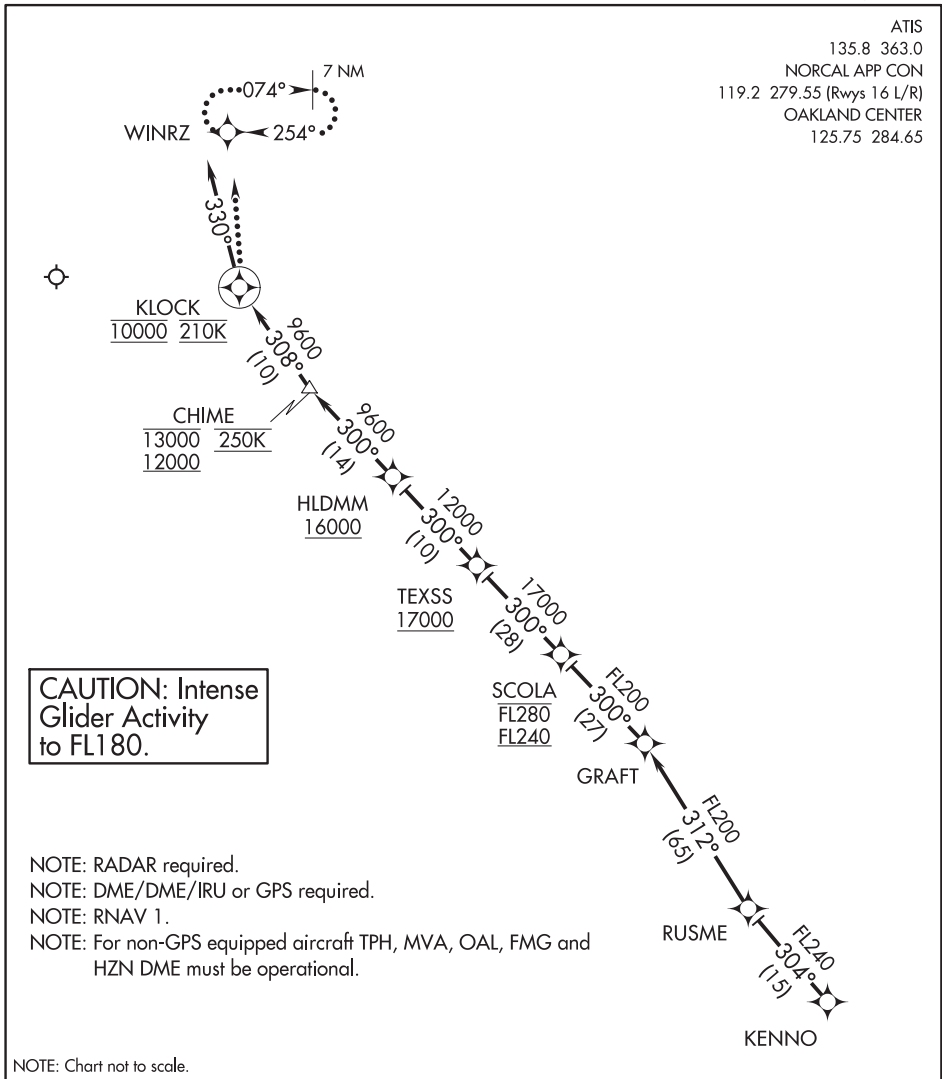
SW-4, 10 NOV 2016 to 05 JAN 2017

KADDY TWO ARRIVAL

LAS VEGAS, NEVADA

KENNO TWO ARRIVAL (RNAV)

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



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ARRIVAL ROUTE DESCRIPTION

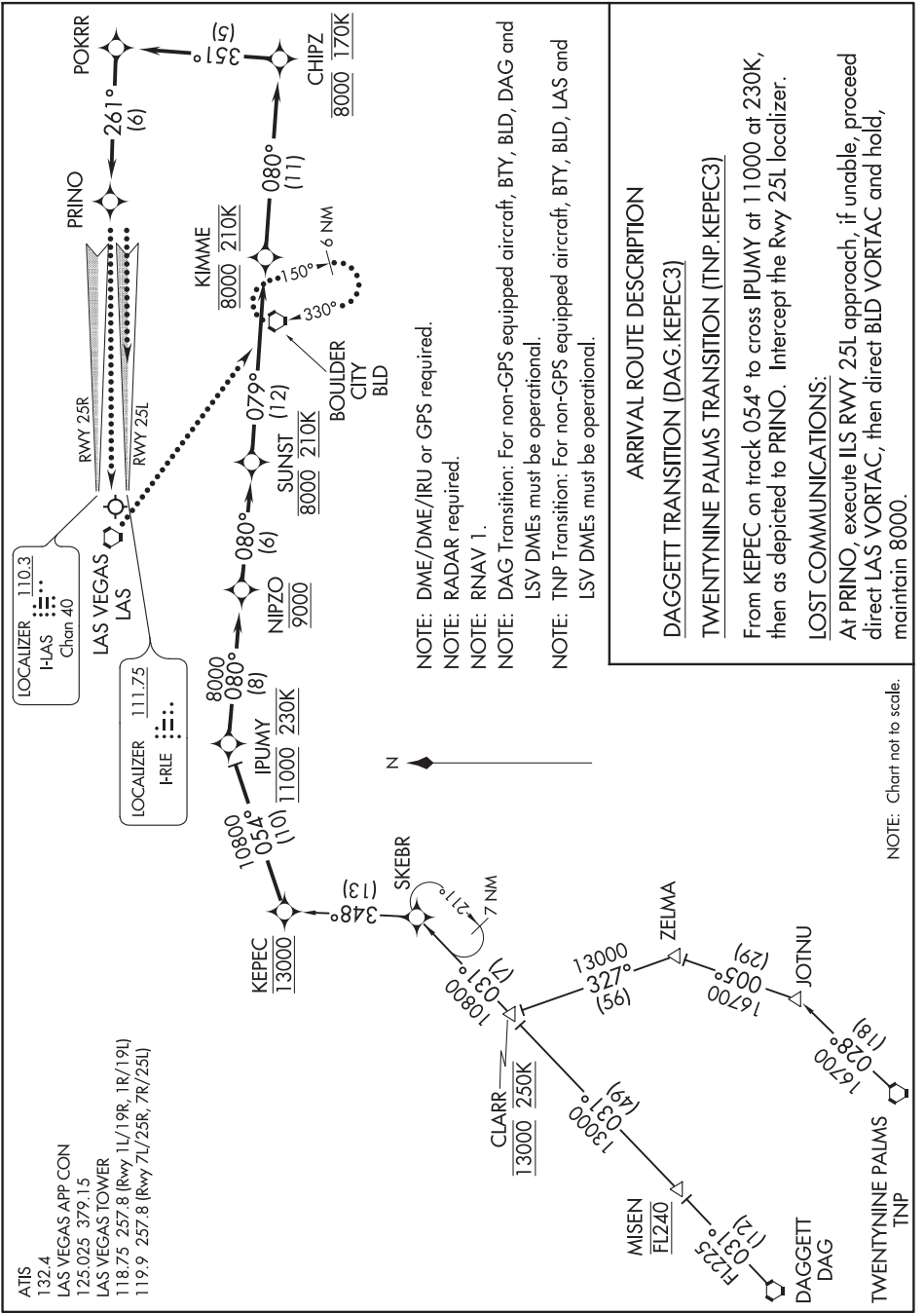
From KENNO on track 304° to RUSME, then as depicted to cross KLOCK at 10000' at 210K, then on heading 330°. Rwy 16L/16R expect RADAR vectors to final approach course.

LOST COMMUNICATIONS:

At KLOCK, turn right direct to WINRZ and hold, maintain 10000'.

KEPEC THREE ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

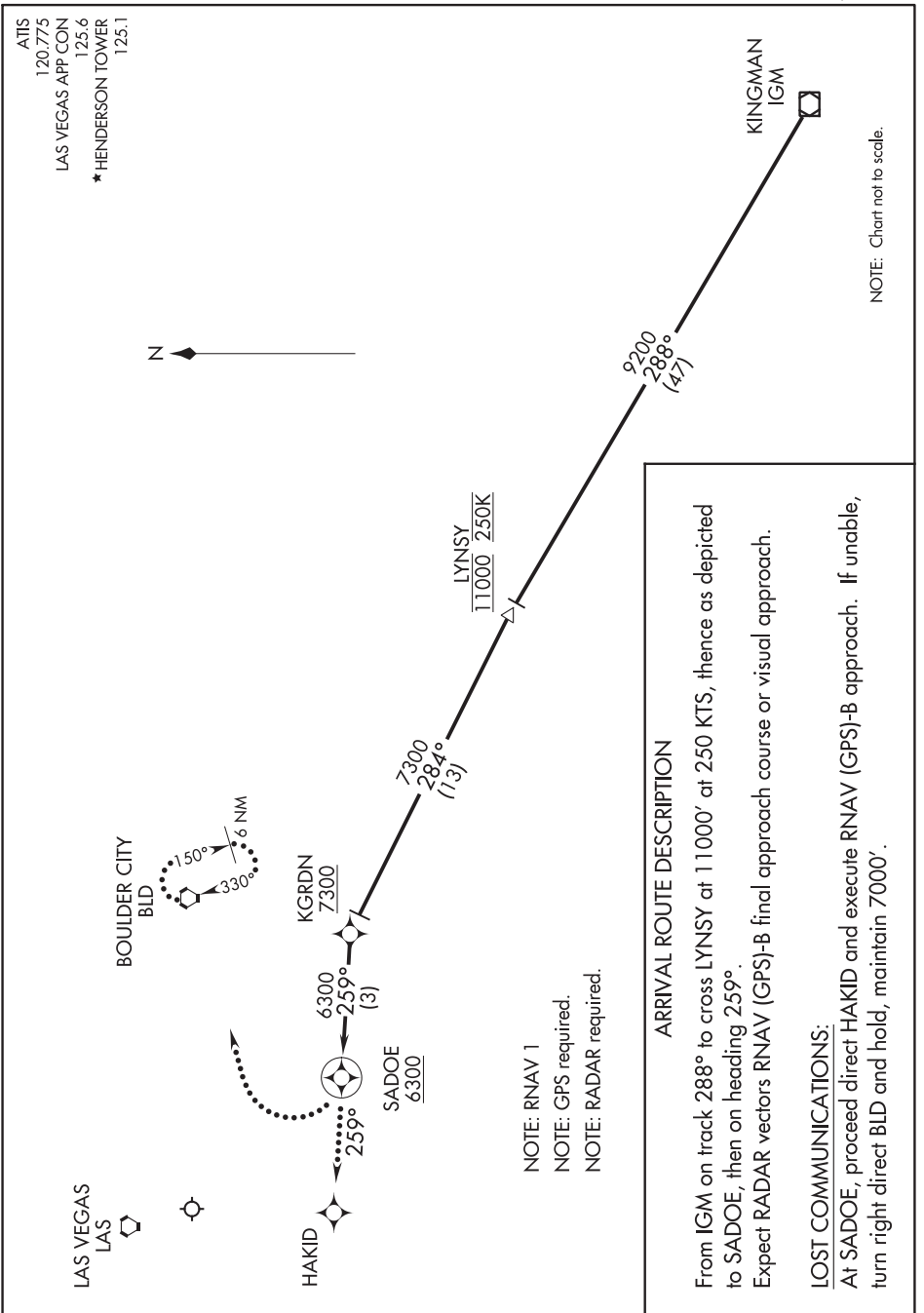


SW-4, 10 NOV 2016 to 05 JAN 2017

KEPEC THREE ARRIVAL (RNAV)
(KEPEC.KEPEC3) 26JUL12

KNGMN TWO ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017



KNGMN TWO ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

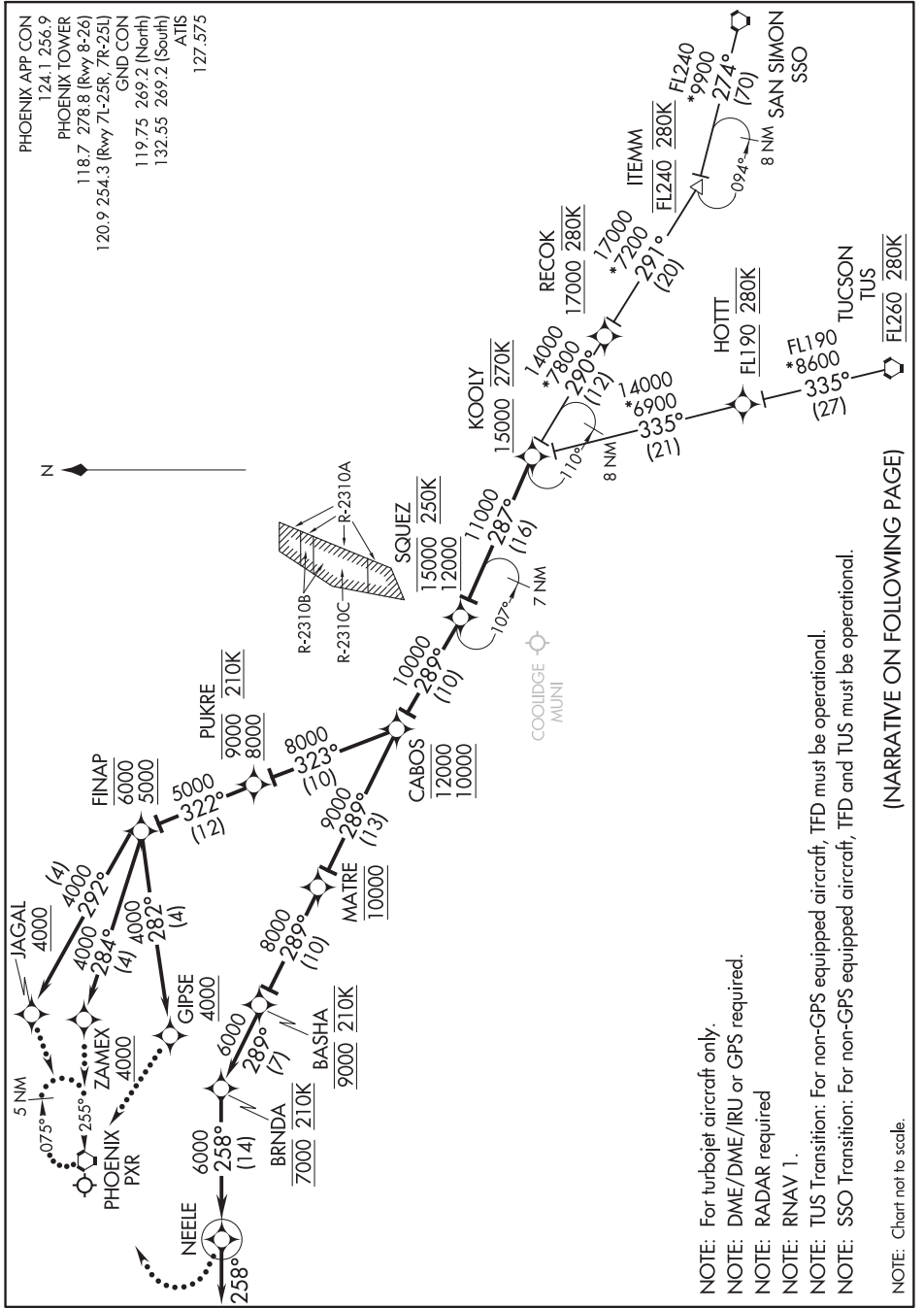
KOOLY FOUR ARRIVAL (RNAV)

ST-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PHOENIX APP CON
124.1 256.9
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)
ATIS
127.575

SW-4 10 NOV 2016 to 05 JAN 2017



- NOTE: For turbojet aircraft only.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required
- NOTE: RNAV 1.
- NOTE: TUS Transition: For non-GPS equipped aircraft, TFD must be operational.
- NOTE: SSO Transition: For non-GPS equipped aircraft, TFD and TUS must be operational.
- NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

KOOLY FOUR ARRIVAL (RNAV)

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

ARRIVAL ROUTE DESCRIPTION

SAN SIMON TRANSITION (SSO.KOOLY4)TUCSON TRANSITION (TUS.KOOLY4)

From KOOLY via 287° track to SQUEZ, cross SQUEZ between 12000 and 15000 at 250K, then via 289° track to CABOS, cross CABOS between 10000 and 12000, thence as depicted on runway transitions.

RUNWAYS 7L, 7R, 8 TRANSITIONS: From CABOS 289° track to MATRE, cross MATRE at 10000, then via 289° track to BASHA, cross BASHA at 9000 and at 210K, then via 289° track to BRNDA, cross BRNDA at 7000 at 210K, then via 258° track to NEELE, then via 258° track. Expect ILS approach or RADAR vectors to final approach course.

RUNWAY 25L TRANSITION: From CABOS 323° track to PUKRE, cross PUKRE between 8000 and 9000 at 210K, then via 322° track to FINAP, cross FINAP between 5000 and 6000, then via 282° track to GIPSE, cross GIPSE at or above 4000. Expect ILS approach or RADAR vectors to final approach course.

RUNWAY 25R TRANSITION: From CABOS 323° track to PUKRE, cross PUKRE between 8000 and 9000 at 210K, then via 322° track to FINAP, cross FINAP between 5000 and 6000, then via 284° track to ZAMEX, cross ZAMEX at or above 4000. Expect RNAV (GPS) approach or RADAR vectors to final approach course.

RUNWAY 26 TRANSITION: From CABOS 323° track to PUKRE, cross PUKRE between 8000 and 9000 at 210K, then via 322° track to FINAP, cross FINAP between 5000 and 6000, then via 292° track to JAGAL, cross JAGAL at or above 4000. Expect ILS 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.

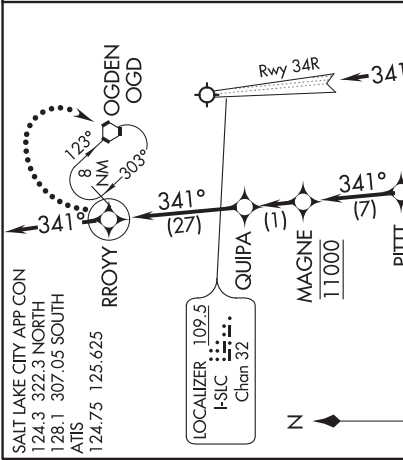
LANDING RUNWAY 26: At JAGAL intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold, maintain 9000.

LEEHY FOUR ARRIVAL (RNAV)

ST-365 (FAA)

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

12Z 01 91 2017 01 01 05 JAN 2017

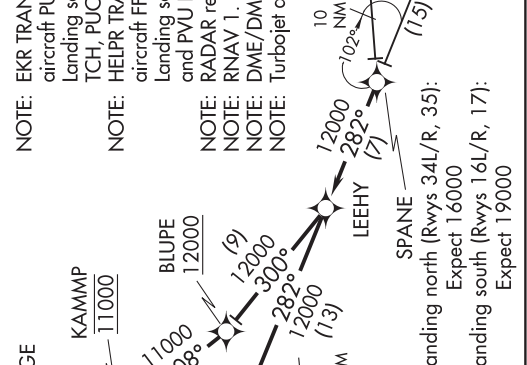


HELPR TRANSITION (HELPR.LEEHY4)
MEEKER TRANSITION (EKR.LEEHY4)

From SPANE on track 282° to LEEHY, thence via runway transition. . .
. . . **LANDING NORTH RUNWAYS 34L/R and 35:** From LEEHY on track 300° to BLUPE, then on track 308° to KAMMP, then on track 341° to PLAGE, then on 341° heading. Rwy 34R intercept I-SIC localizer. Proceed inbound, expect ILS/VISUAL approach. Rwys 34L and 35 expect RADAR vectors to final approach course.
. . . **LANDING RUNWAYS 16L/R and 17:** From LEEHY on track 282° to FFU VORTAC, then on track 316° to DRYVE, then as depicted to RROYY, then on 341° heading. 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.



LEEHY FOUR ARRIVAL (RNAV)

(LEEHY.LEEHY4) 31MAR16

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

SW-4, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale.

(LENNI.LENNI3) 16259

LENNI THREE ARRIVAL

ST-321 (FAA)

LUKE AIR FORCE BASE (LUF)
GLENDALE, ARIZONA

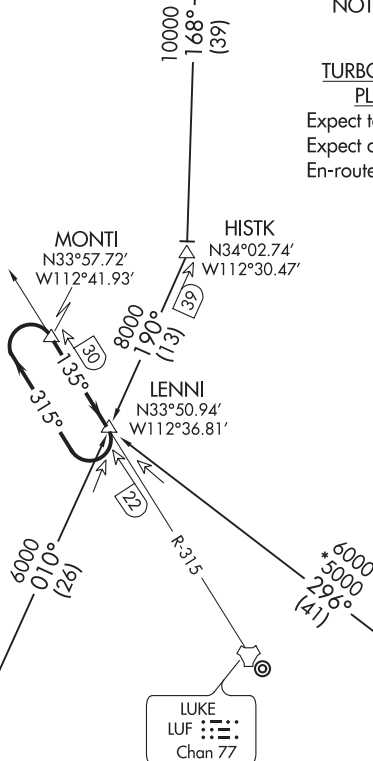
ALBUQUERQUE CENTER
128.45 289.9
LUKE RAPCON *
118.15 363.125
LUKE TOWER *
119.1 379.9
ATIS *
134.925 269.9
METRO
267.4

DRAKE
114.1 DRK
Chan 88
N34°42.15'-W112°28.82'
L-8, H-4

NOTE: Military Only.
NOTE: DME required.

TURBOJET VERTICAL NAVIGATION
PLANNING INFORMATION

Expect to cross LENNI at FL220.
Expect one turn in holding at LENNI.
En-route descent DRAKE TRANSITION only.



BUCKEYE
110.6 BXK
Chan 43
N33°27.21'-W112°49.48'
L-5, H-4

PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'
L-5, H-4

LUKE
LUF
Chan 77

NOTE: Chart not to scale.

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.

LENNI THREE ARRIVAL

(LENNI.LENNI3) 31AUG08

GLENDALE, ARIZONA
LUKE AIR FORCE BASE (LUF)

SW-4, 10 NOV 2016 to 05 JAN 2017

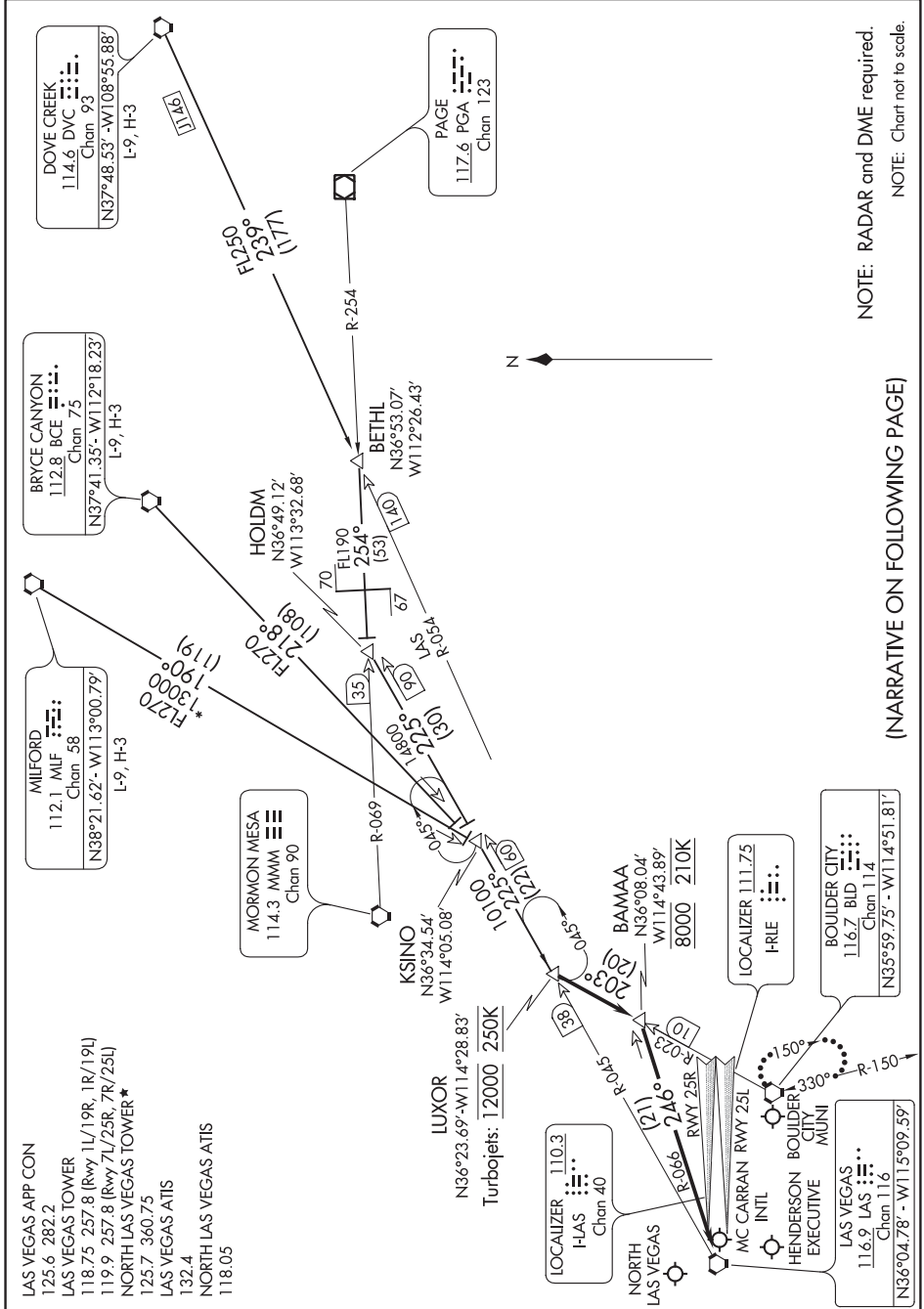
SW-4, 10 NOV 2016 to 05 JAN 2017

LUXOR TWO ARRIVAL

ST-662 (FAA)

LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017



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

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

LUXOR TWO ARRIVAL

LAS VEGAS, NEVADA

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.

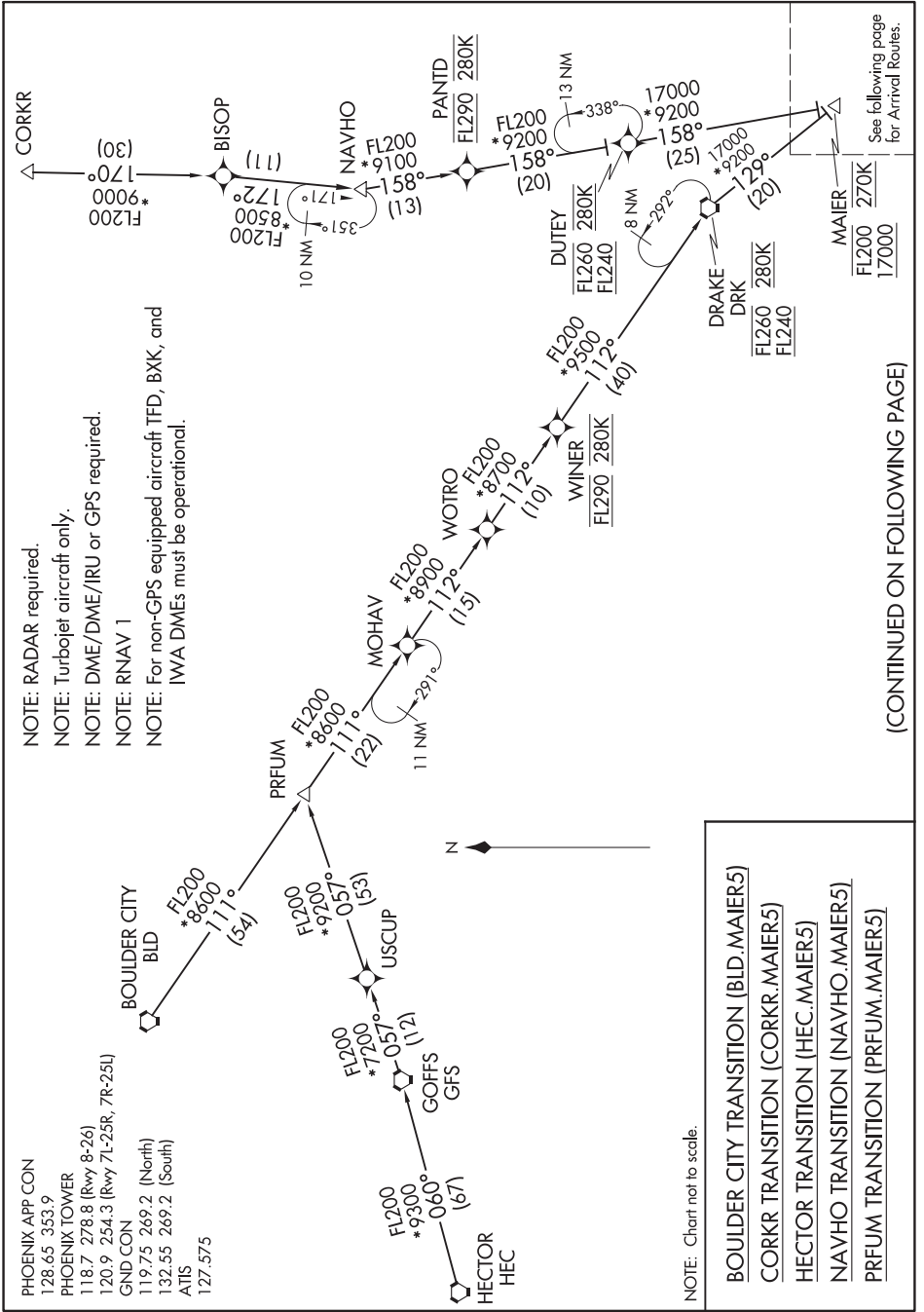
LOST COMMUNICATIONS: After LAS VORTAC proceed direct BLD VORTAC and hold. Maintain 8000' or last assigned altitude whichever is higher.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MAIER FIVE ARRIVAL (RNAV) Transition Routes

7 1011 2017 01:05 JAN 2017



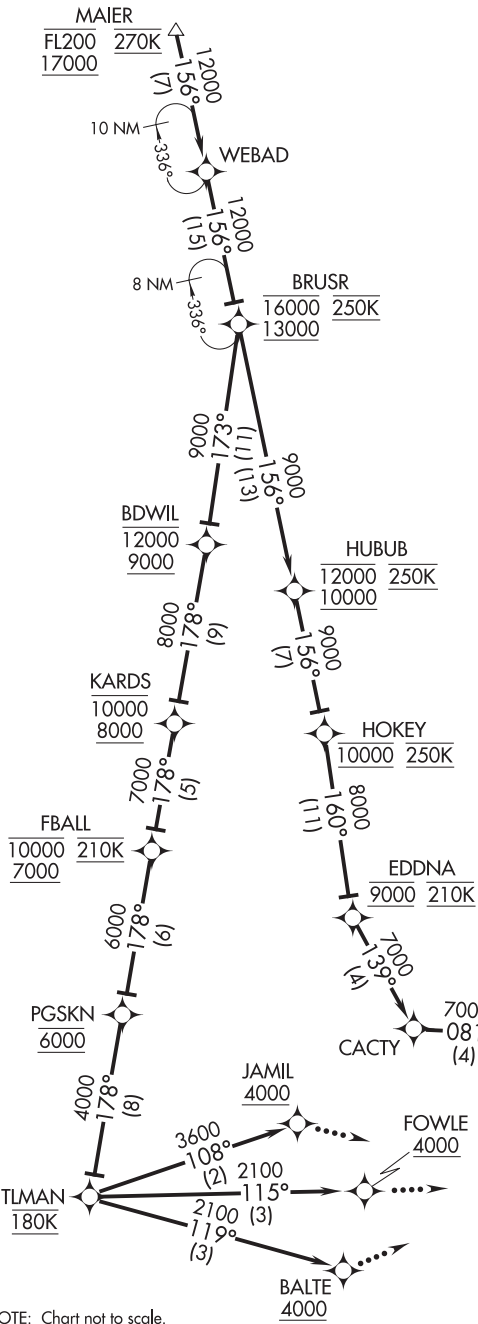
MAIER FIVE ARRIVAL (RNAV) Transition Routes

SW-4, 10 NOV 2016 to 05 JAN 2017

MAIER FIVE ARRIVAL (RNAV) Arrival Routes

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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)
 ATIS
 127.575

- NOTE: RADAR required.
- NOTE: Turbojet aircraft only.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RNAV 1
- NOTE: For non-GPS equipped aircraft TFD, BXX, and IWA DMEs must be operational.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

MAIER FIVE ARRIVAL (RNAV) Arrival Routes

ARRIVAL ROUTE DESCRIPTION

From MAIER via 156° track to WEBAD. From WEBAD via 156° track to BRUSR, cross BRUSR between 13000 and 16000 at 250K, thence as depicted on runway transitions.

RUNWAY 8 TRANSITION: From BRUSR via 173° track to BDWIL, cross BDWIL between 9000 and 12000, then via 178° track to KARDS, cross KARDS between 8000 and 10000, then via 178° track to FBALL, cross FBALL between 7000 and 10000 at 210K, then via 178° track to PGSKN, cross PGSKN at 6000, then via 178° track to TLMAN, cross TLMAN at 180K, then via 108° track to JAMIL, cross JAMIL at or above 4000. Expect ILS approach or RADAR vectors to final approach course.

RUNWAY 7L TRANSITION: From BRUSR via 173° track to BDWIL, cross BDWIL between 9000 and 12000, then via 178° track to KARDS, cross KARDS between 8000 and 10000, then via 178° track to FBALL, cross FBALL between 7000 and 10000 at 210K, then via 178° track to PGSKN, cross PGSKN at 6000, then via 178° track to TLMAN, cross TLMAN at 180K, then via 115° track to FOWLE, cross FOWLE at or above 4000. Expect ILS approach or RADAR vectors to final approach course.

RUNWAY 7R TRANSITION: From BRUSR via 173° track to BDWIL, cross BDWIL between 9000 and 12000, then via 178° track to KARDS, cross KARDS between 8000 and 10000, then via 178° track to FBALL, cross FBALL between 7000 and 10000 at 210K, then via 178° track to PGSKN, cross PGSKN at 6000, then via 178° track to TLMAN, cross TLMAN at 180K, then via 119° track to BALTE, cross BALTE at or above 4000. Expect ILS approach or RADAR vectors to final approach course.

RUNWAYS 25L, 25R, 26 TRANSITIONS: From BRUSR via 156° track to HUBUB, cross HUBUB between 10000 and 12000 at 250K, then via 156° track to HOKEY, cross HOKEY at 10000 at 250K, then via 160° track to EDDNA, cross EDDNA at 9000 at 210K, then via 139° track to CACTY, then via 081° track to KUCOO, cross KUCOO at 7000 at 210K, then via 079° track to BELLY, then via 079° track. Expect ILS approach Rwy 25L-26 (GPS Rwy 25R) or RADAR vectors to final approach course.

LOST COMMUNICATIONS

LANDING RUNWAY 8: At JAMIL, intercept and execute RWY 8 ILS approach, If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

LANDING RUNWAY 7L: At FOWLE, intercept and execute RWY 7L ILS approach. If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

LANDING RUNWAY 7R: At BALTE, intercept and execute RWY 7R ILS approach. If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

LANDING RUNWAY 25L: At BELLY, turn right, intercept and execute RWY 25L ILS approach. If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

LANDING RUNWAY 25R: At BELLY, turn right, intercept and execute RWY 25R RNAV (GPS) approach. If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

LANDING RUNWAY 26: At BELLY, turn right, intercept and execute RWY 26 ILS approach. If unable, proceed direct PXR VORTAC and hold E, RT, 255° inbound, maintain 9000.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(MYBAD.MYBAD2) 16315

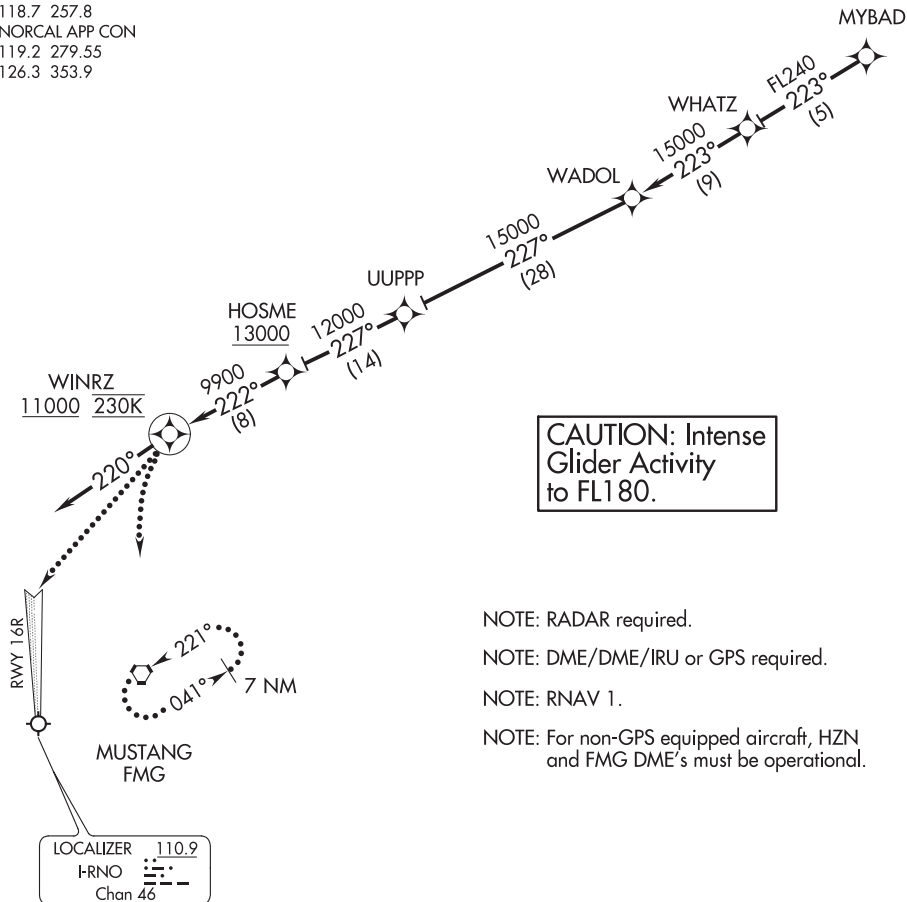
Z57

ST-346 (FAA)

RENO/TAHOE INTL (R.NO)
RENO, NEVADA

MYBAD TWO ARRIVAL (RNAV)

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 and FMG DME's must be operational.

NOTE: Chart not to scale.

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.

MYBAD TWO ARRIVAL (RNAV)
(MYBAD.MYBAD2) 05APR12

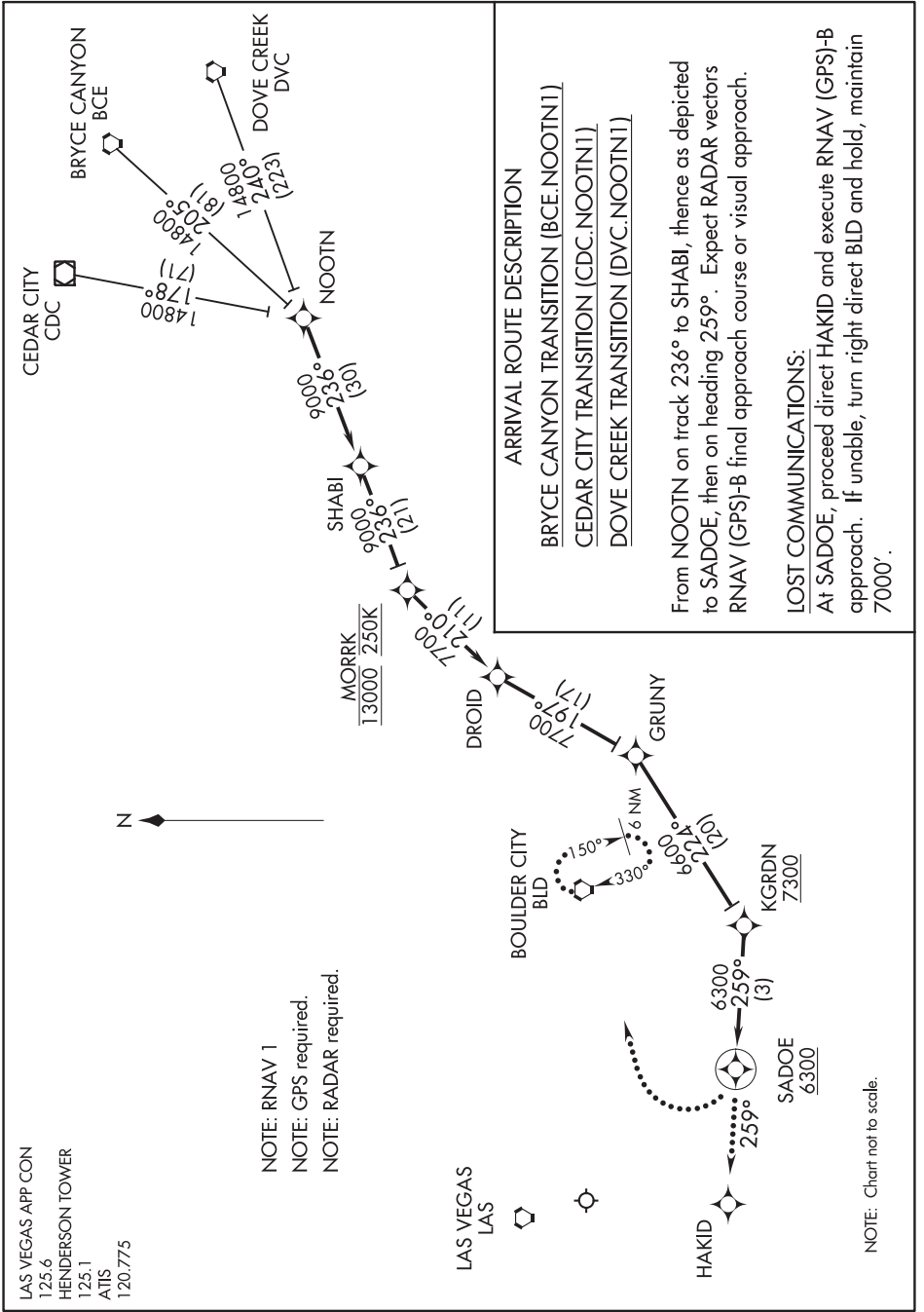
RENO, NEVADA
RENO/TAHOE INTL (R.NO)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOOTN ONE ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

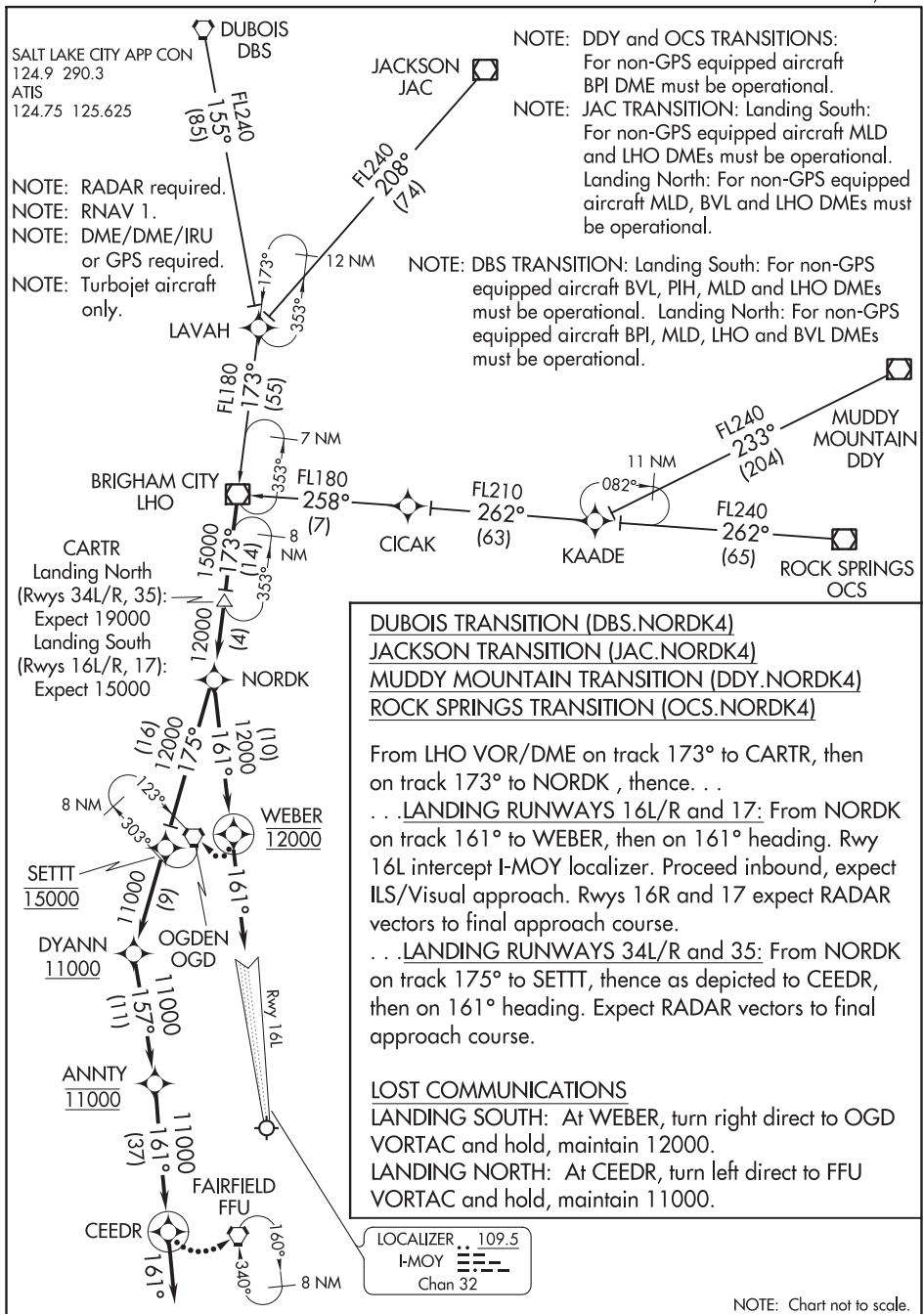
NOOTN ONE ARRIVAL (RNAV)

(NORDK.NORDK4) 16259

NORDK FOUR ARRIVAL (RNAV)

ST-365 (FAA)

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



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NORDK FOUR ARRIVAL (RNAV)

(NORDK.NORDK4) 31MAR16

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

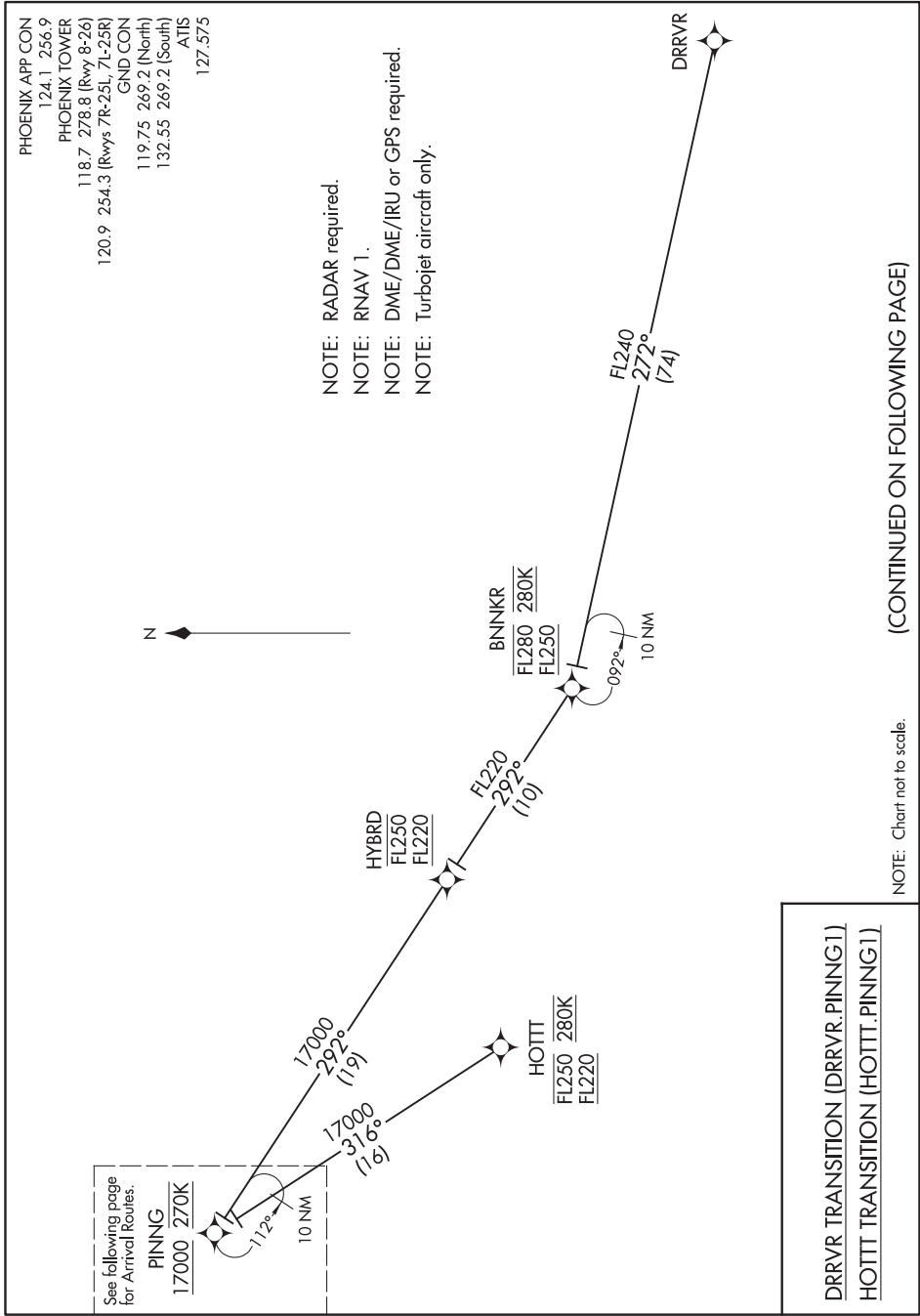
(PINNG.PINNG1) 16259

ST-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

PINNG ONE ARRIVAL (RNAV) Transition Routes

SW-4, 10 NOV 2016 to 05 JAN 2017



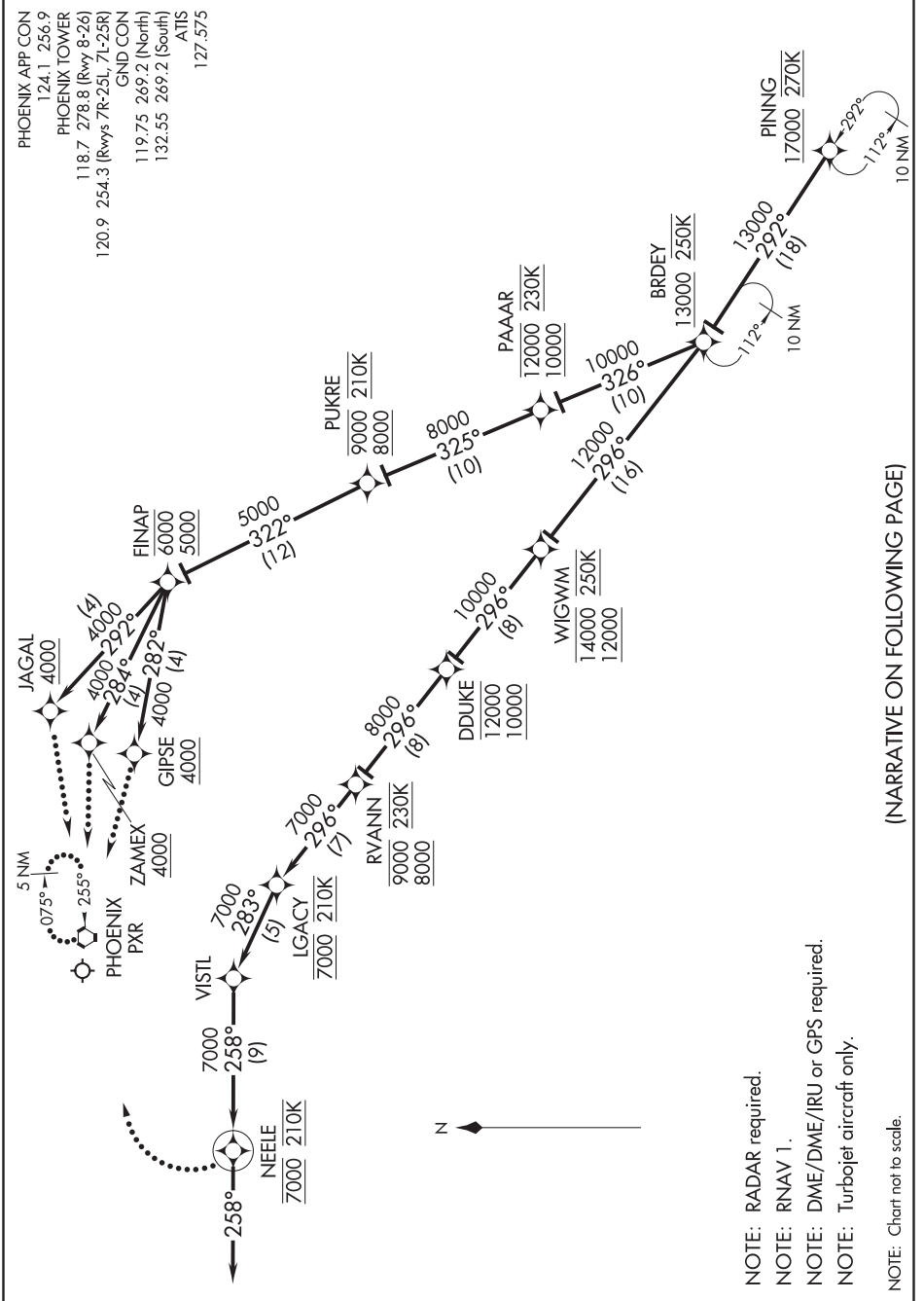
PINNG ONE ARRIVAL (RNAV) Transition Routes

(PINNG.PINNG1) 18SEP14

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

PING ONE ARRIVAL (RNAV) Arrival Routes

SW-4, 10 NOV 2016 to 05 JAN 2017



(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Turbojet aircraft only.
- NOTE: Chart not to scale.

PING ONE ARRIVAL (RNAV) Arrival Routes

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(QWENN.QWENN4) 16259

QWENN FOUR ARRIVAL (RNAV)

ST-365 (FAA)

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

ARRIVAL ROUTE DESCRIPTION

BRYCE CANYON TRANSITION (BCE.QWENN4)

MILFORD TRANSITION (MLF.QWENN4)

LANDING NORTH RUNWAYS 34R/L and 35: From QWENN on track 358° to FFU VORTAC, then as depicted to PLAGE, then on 341° heading. Rwy 34R intercept I-SLC localizer. Proceed inbound, expect ILS/Visual approach. Rwy 34L and 35 expect RADAR vectors to final approach course.

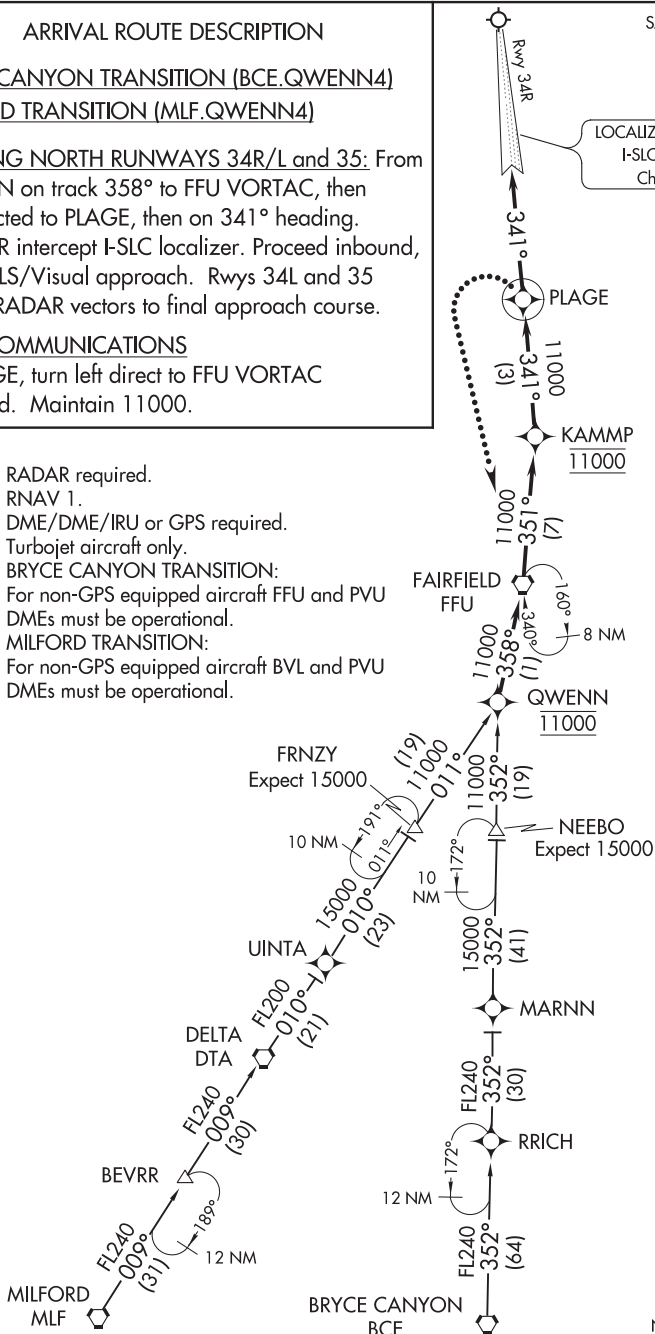
LOST COMMUNICATIONS

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.

SALT LAKE CITY APP CON
124.3 322.3
ATIS 124.75 125.625

LOCALIZER 109.5
I-SLC
Chan 32



NOTE: Chart not to scale.

QWENN FOUR ARRIVAL (RNAV)

(QWENN.QWENN4) 31MAR16

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

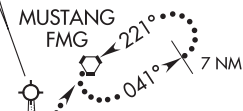
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RUSME TWO ARRIVAL (RNAV)

ATIS
135.8 363.0
NORCAL APP CON
120.8 298.9 (Rwys 34 L/R)

LOCALIZER 109.9
I-AGY
Chan 36



RWY 34L

344°

SPOON
13000 210K

13000
344°
(17)

TARVR
14000 250K

14000
288°
(5)

SNKIS
FL190

14000
287°
(29)

PEONS

16000
292°
(99)

RUSME

FL240
304°
(115)
KENNO

NOTE: RADAR required for non-GPS aircraft.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: For Turbojet and Turboprop aircraft only.

NOTE: For non-GPS equipped aircraft TPH, MVA, OAL, and SWR DMEs must be operational.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale.

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.

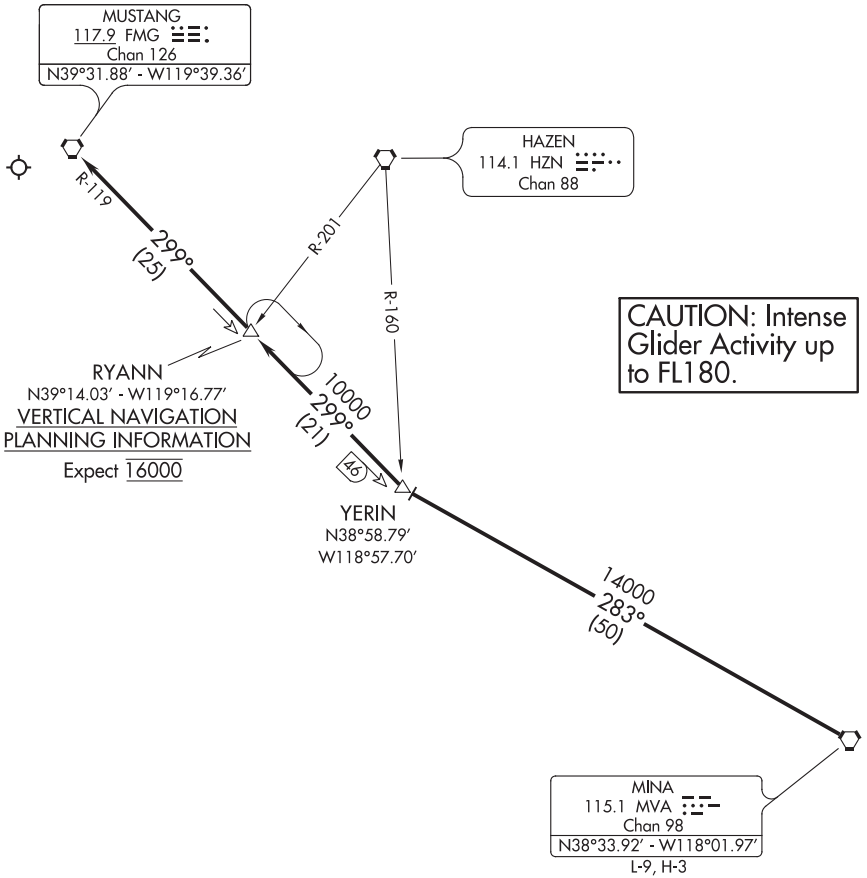
RWY 34L: Intercept I-AGY localizer. Proceed inbound, expect ILS/Visual approach.

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.

RUSME TWO ARRIVAL (RNAV)

NORCAL APP CON
 119.2 279.55
 126.3 353.9
 ATIS
 135.8 363.0



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

- NOTE: For Runway 16 only.
- NOTE: RADAR Required.
- NOTE: Chart not to scale.

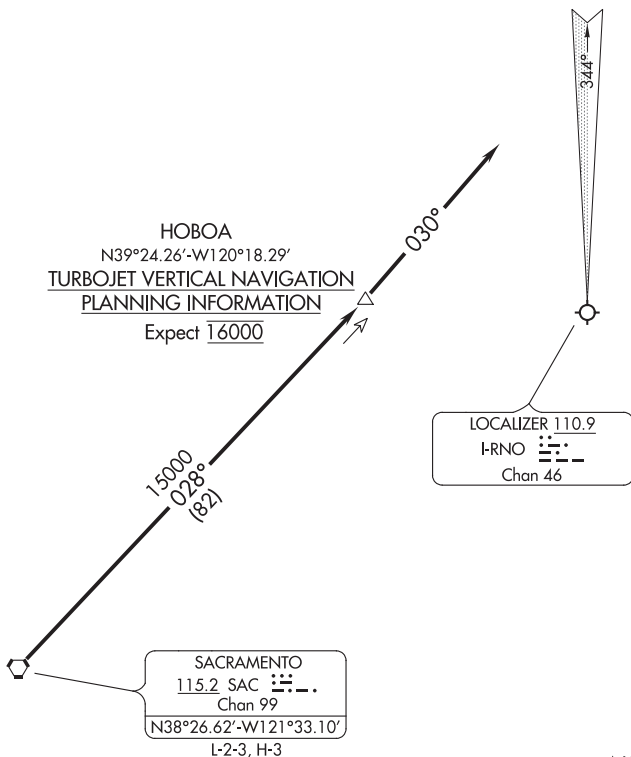
ARRIVAL ROUTE DESCRIPTION

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.

NORCAL APP CON
119.2 279.55
126.3 353.9
ATIS
135.8 363.0

**CAUTION: Intense
Glider Activity up
to FL180.**

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

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.

(SKEES.SKEES4) 16259

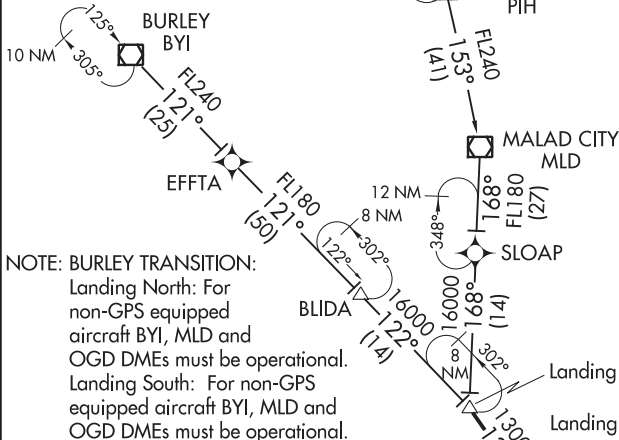
SKEES FOUR ARRIVAL (RNAV)

ST-365 (FAA)

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

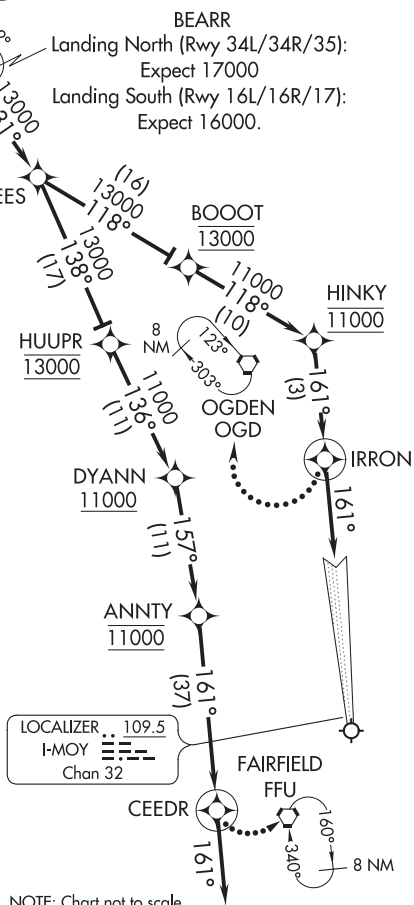
SALT LAKE CITY APP CON
124.9 290.3
ATIS 124.75 125.625

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.



NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

BURLEY TRANSITION (BYI.SKEES4)
POCATELLO TRANSITION (PIH.SKEES4)

From BEARR on track 131° to SKEES.

LANDING NORTH (RUNWAYS 34L/R and 35):
From SKEES on track 138° to HUUPR, thence as depicted to CEEDR, then on heading 161°.
Expect RADAR vectors to final approach course.

LANDING SOUTH (RUNWAYS 16L/R and 17):
From SKEES on track 118° to BOOOT, thence as depicted to IRRON, then on heading 161°. Rwy 16L intercept I-MOY localizer. Proceed inbound, expect ILS/Visual approach. Rwy 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 1100.
LANDING NORTH: At CEEDR, turn left direct to FFU VORTAC and hold. Maintain 1100.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

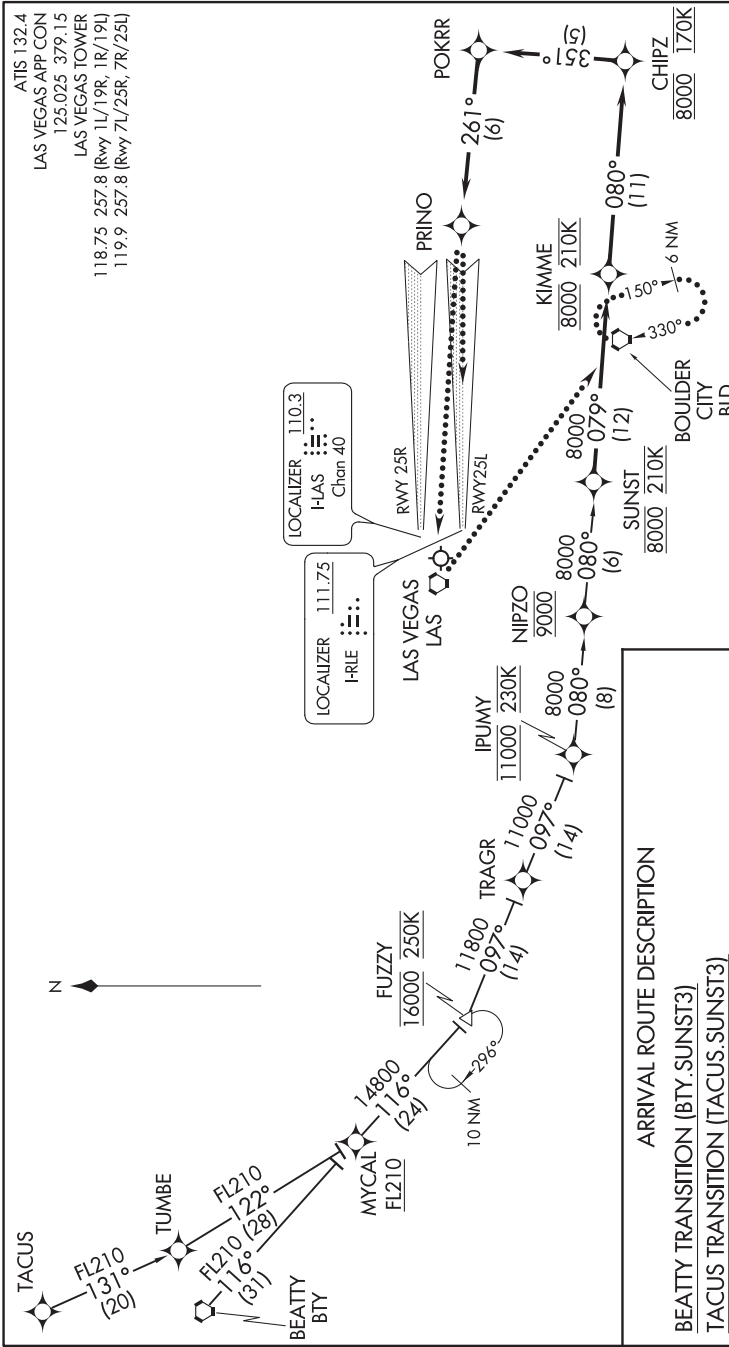
SKEES FOUR ARRIVAL (RNAV)

(SKEES.SKEES4) 31MAR16

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

SUNST THREE ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017



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 7L/25R, 7R/25L)

LOCALIZER 111.75
 I-RLE
 Chan 40

LOCALIZER 110.3
 I-LAS
 Chan 40

ARRIVAL ROUTE DESCRIPTION

BEATTY TRANSITION (BTY.SUNST3)

TACUS TRANSITION (TACUS.SUNST3)

From SUNST on track 079° to cross KIMME, at 8000 at 210K, then as depicted to PRINO. Rwy 25L, intercept the Rwy 25L localizer.

LOST COMMUNICATIONS

At PRINO, execute ILS Rwy 25L approach, if unable, proceed direct LAS VORTAC, then direct BLD VORTAC and hold, maintain 8000.

NOTE: DME/DME/IRU or GPS required.
 NOTE: RADAR required.
 NOTE: RNAV 1.
 NOTE: For non-GPS equipped aircraft, BTY, PMD, and LSV DMEs must be operational.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SUNST THREE ARRIVAL (RNAV)

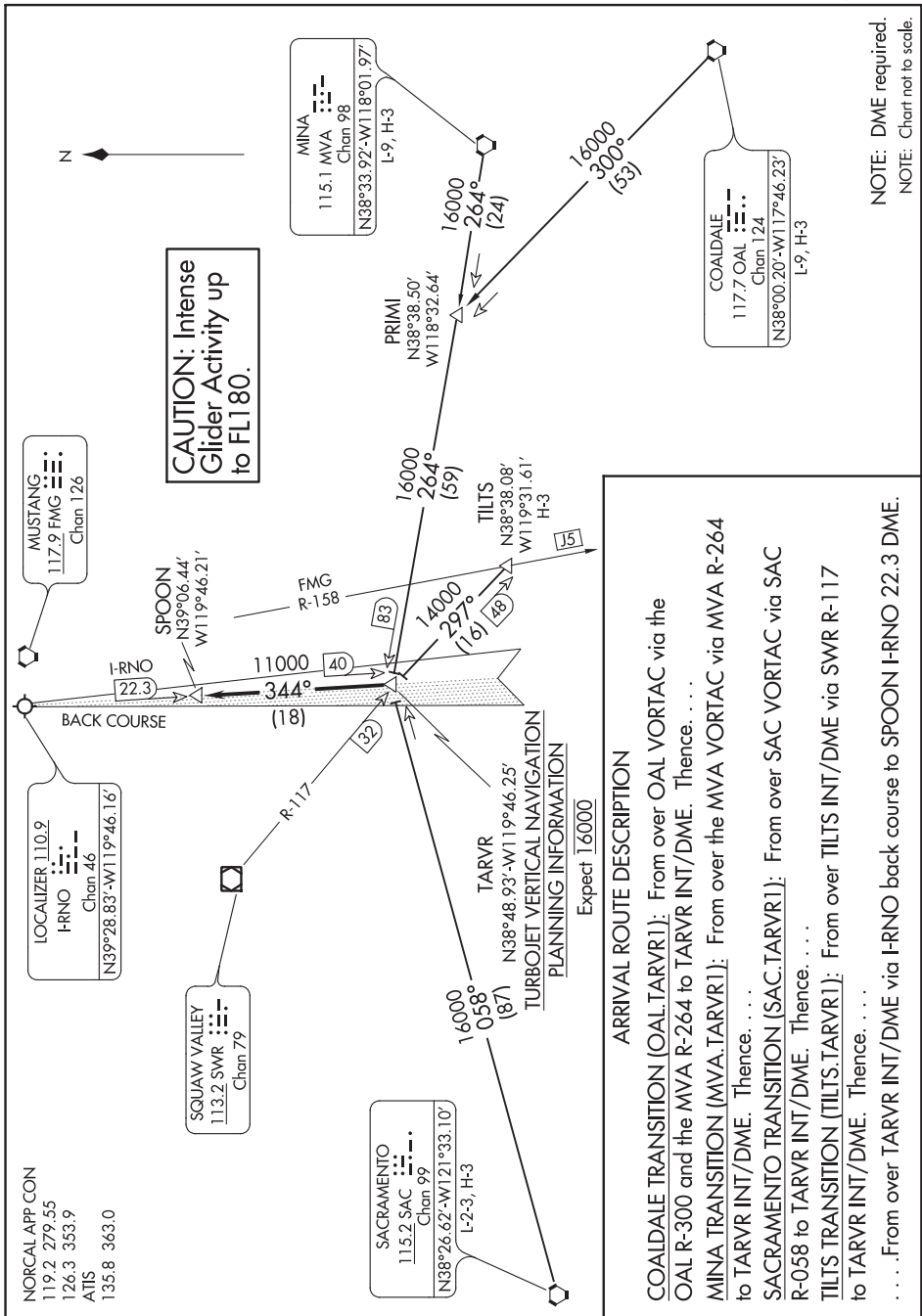
(TARVR.TARVR1) 16315
TARVR ONE ARRIVAL

ST-346 (FAA)

RENO/TAHOE INTL (RNO)
 RENO, NEVADA

Z71

SW-4, 10 NOV 2016 to 05 JAN 2017



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

TARVR ONE ARRIVAL
 (TARVR.TARVR1) 23APR98

RENO, NEVADA
 RENO/TAHOE INTL (RNO)

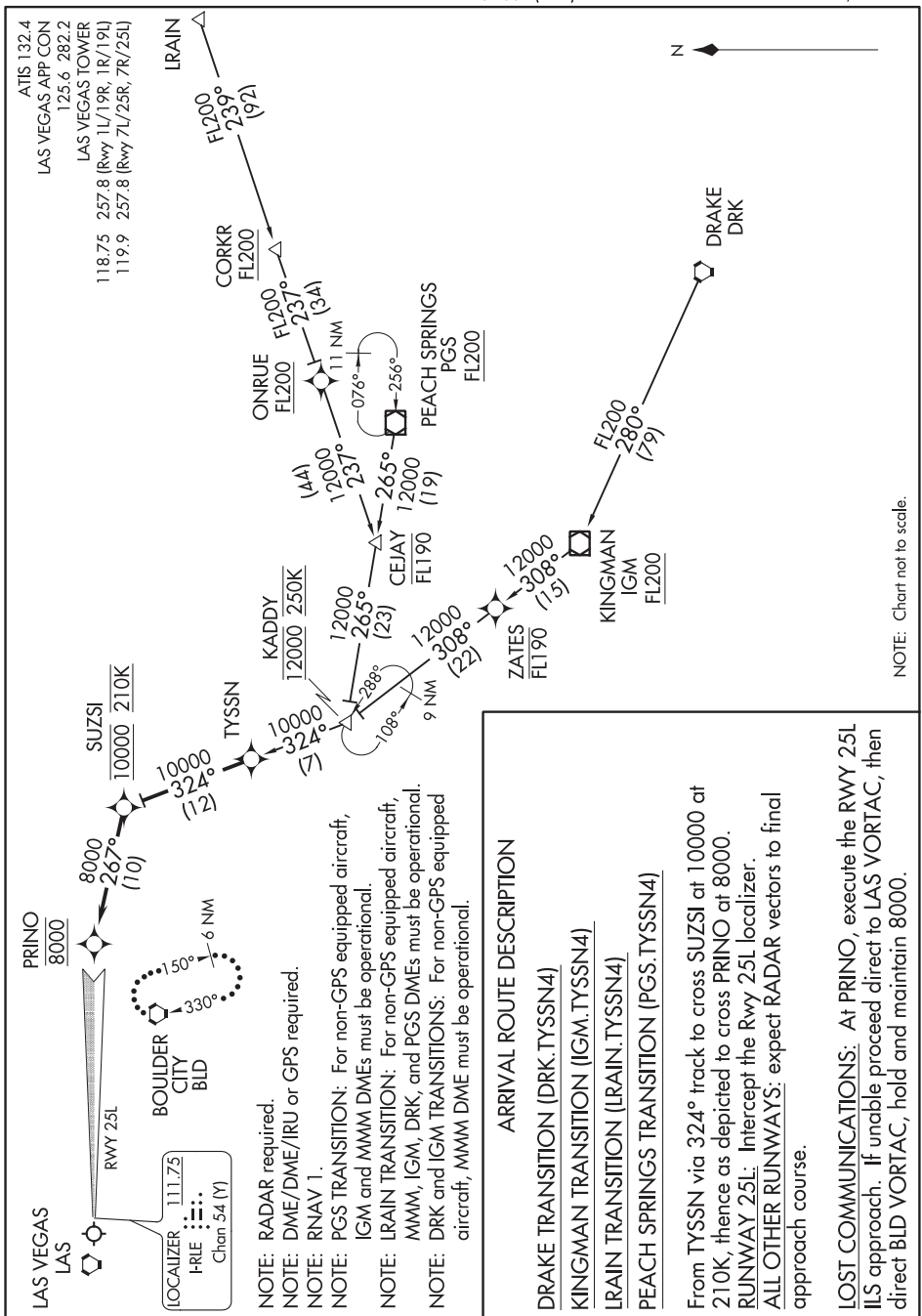
SW-4, 10 NOV 2016 to 05 JAN 2017

TYSSN FOUR ARRIVAL (RNAV)

ST-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017



TYSSN FOUR ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

7 01 01 01 2016 10 01 05 JAN 2017

SALT LAKE CITY APP CON
128.1 307.05
ATIS
124.75 125.625



BONNEVILLE
BVL

KNOLE
Expect 17000

17000

076°

(41)

14000

077°

(15)

12000

078°

(13)

12000

064°

(13)

12000

076°

(5)

RAACE
12000

CRKIT

076°

(5)

12000

073°

(5)

12000

078°

(13)

DUGGY
12000

SLAGG

073°

(5)

12000

076°

(5)

12000

073°

(5)

QUIPA

091°

(4)

12000

091°

(4)

12000

022°

(4)

OGUIR

161°

(20)

12000

161°

(5)

12000

161°

(20)

PITTT

161°

(20)

12000

161°

(20)

12000

161°

(20)

CEEDR

161°

(20)

12000

161°

(20)

12000

161°

(20)

FAIRFIELD
FFU

160°

(8 NM)

12000

160°

(8 NM)

12000

160°

(8 NM)

OGDEN
OGD

123°

(8 NM)

12000

123°

(8 NM)

12000

123°

(8 NM)

RROYY

341°

(24)

12000

341°

(24)

12000

341°

(24)

LOAPP

341°

(3)

12000

341°

(3)

12000

341°

(3)

OGDEN
OGD

123°

(8 NM)

12000

123°

(8 NM)

12000

123°

(8 NM)

ARRIVAL ROUTE DESCRIPTION

From BVL VORTAC on track 076° to KNOLE, then on track 077° to WAATS.

LANDING NORTH RUNWAYS 34L/R and 35: From WAATS on track 064° to RAACE, thence as depicted to CEEDR, then on heading 161° . Expect RADAR vectors to final approach course.

LANDING SOUTH RUNWAYS 16L/R and 17: From WAATS on track 078° to DUGGY, thence as depicted to RROYY, then on heading 341° . Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

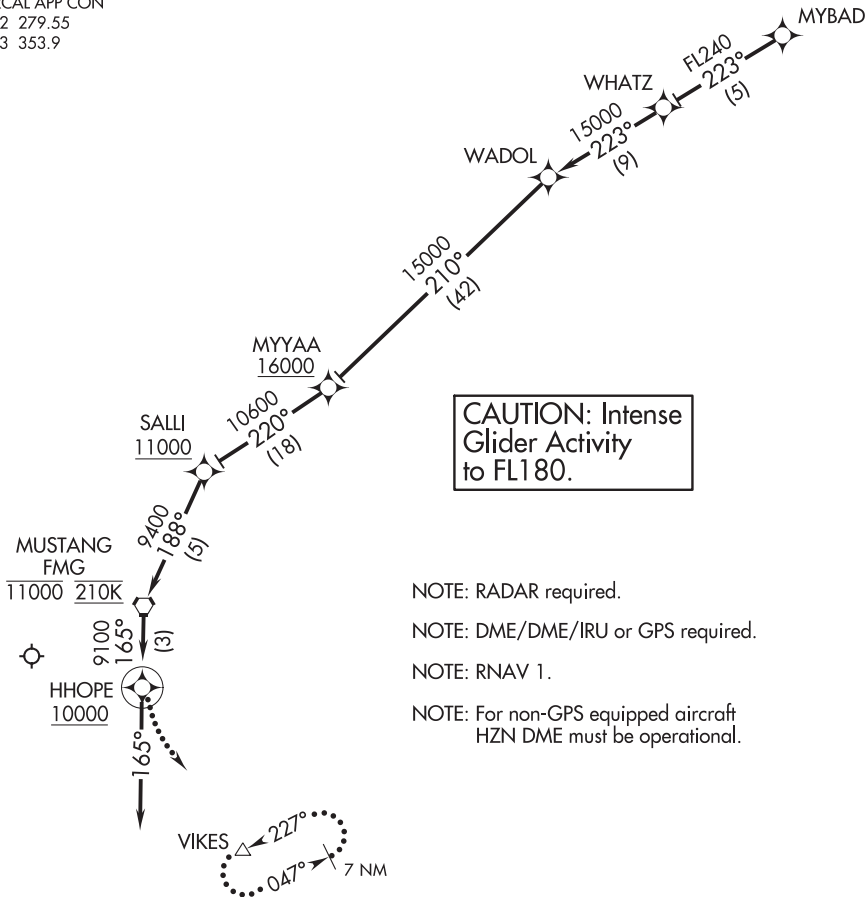
LANDING NORTH: At CEEDR, turn left direct to FFU VORTAC and hold. Maintain 12000.

LANDING SOUTH: At RROYY, turn right direct to OGD VORTAC and hold. Maintain 12000.

NOTE: Chart not to scale.

WADOL TWO ARRIVAL (RNAV)

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.

WADOL TWO ARRIVAL (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

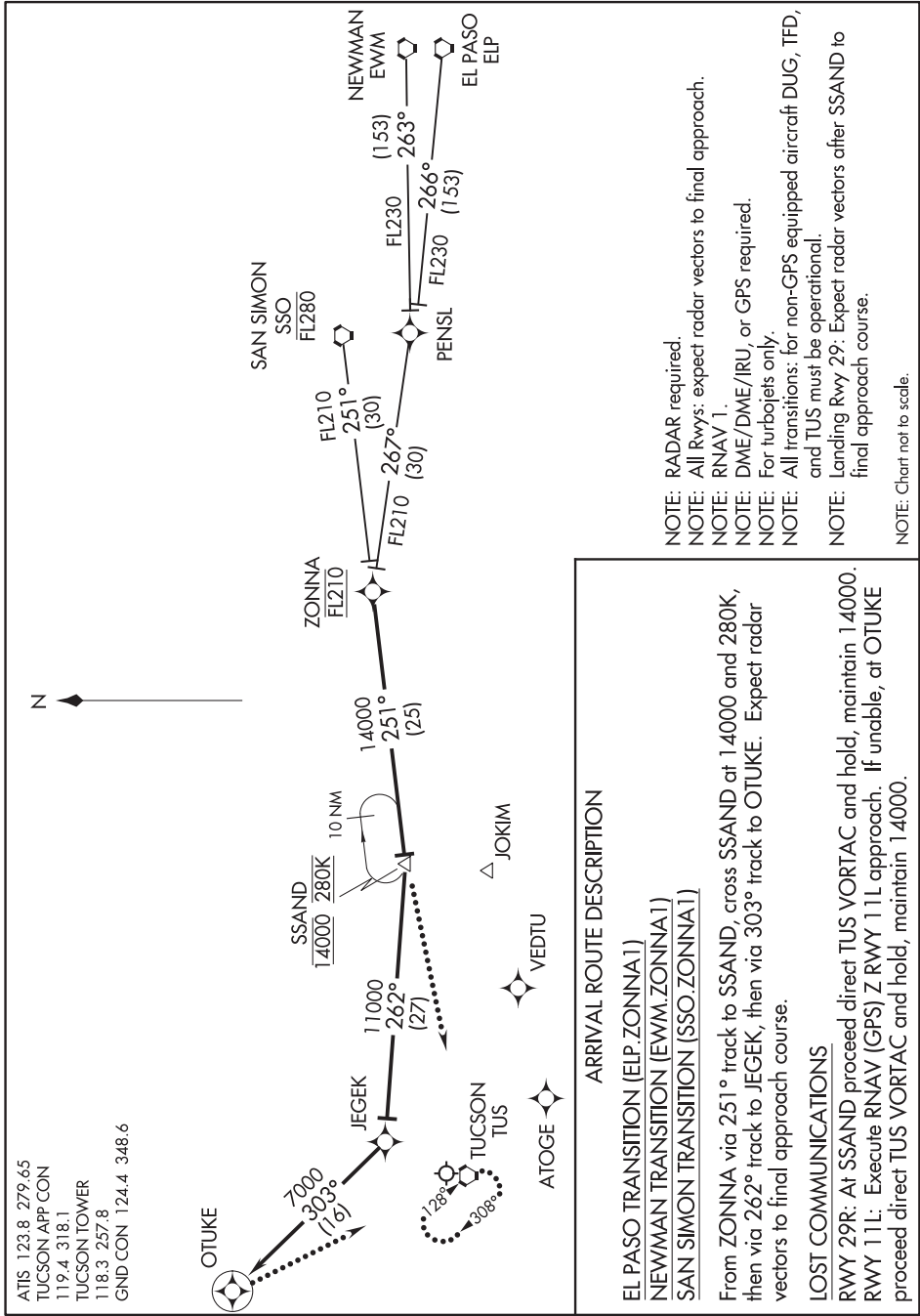
SW-4, 10 NOV 2016 to 05 JAN 2017

ZONNA ONE ARRIVAL (RNAV)

ST-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



- 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.

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 JEJEK, 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, 10 NOV 2016 to 05 JAN 2017

ZONNA ONE ARRIVAL (RNAV)

TUCSON, ARIZONA
TUCSON INTL (TUS)

BATTLE MOUNTAIN, NEVADA

AL-534 (FAA)

15232

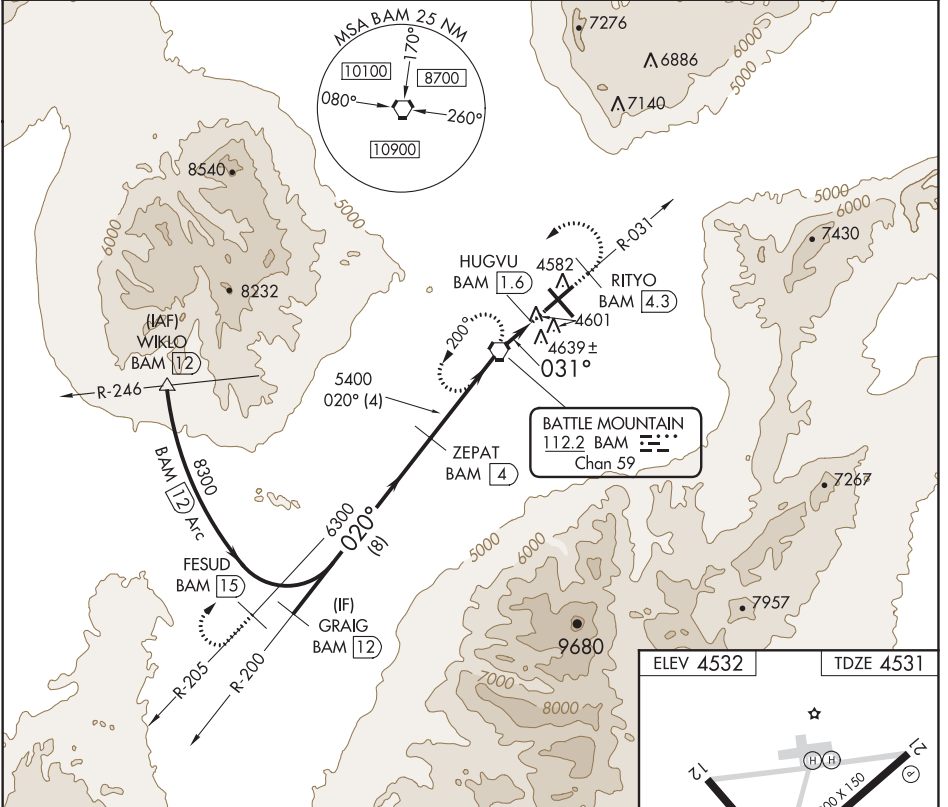
VORTAC BAM 112.2 Chan 59	APP CRS 031°	Rwy Idg TDZE Apt Elev 4532
--	------------------------	---

VOR/DME RWY 3

BATTLE MOUNTAIN (BAM)

NA MISSED APPROACH: Climb to 10000 via BAM VORTAC R-031 to RITYO/BAM 4.3 DME and left turn direct BAM VORTAC and via BAM VORTAC R-205 to FESUD/BAM 1.5 DME and right turn direct BAM VORTAC and hold.

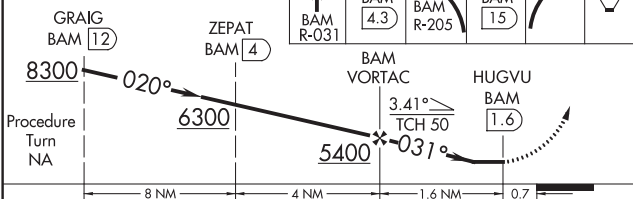
AWOS-3 119.45	SALT LAKE CITY CENTER 132.25 388.35	UNICOM 122.8 (CTAF)
-------------------------	---	-------------------------------



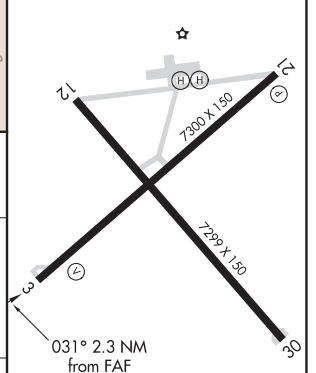
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 26).



ELEV 4532	TDZE 4531
-----------	-----------



CATEGORY	A	B	C	D
S-3	4960-1	429 (500-1)		NA
CIRCLING	4960-1 428 (500-1)	5000-1 468 (500-1)		NA

MIRL Rwy's 3-21 and 12-30

BATTLE MOUNTAIN, NEVADA
Amdt 6 07MAY09

40°36'N-116°52'W

BATTLE MOUNTAIN (BAM) VOR/DME RWY 3

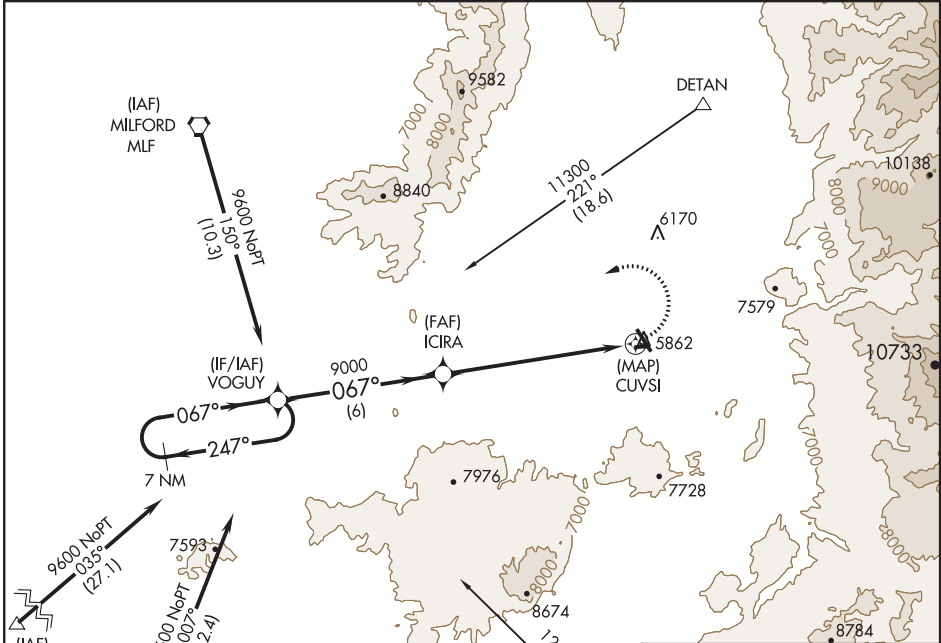
APP CRS 067°	Rwy Idg TDZE Apt Elev	N/A N/A 5860
------------------------	-----------------------------	---

RNAV (GPS)-A

BEAVER MUNI (U52)

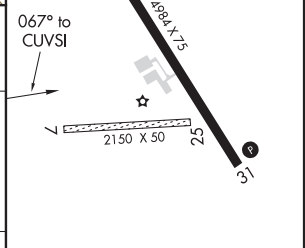
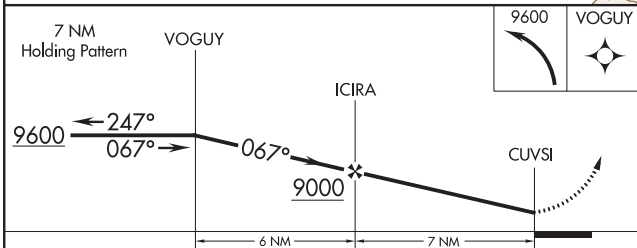
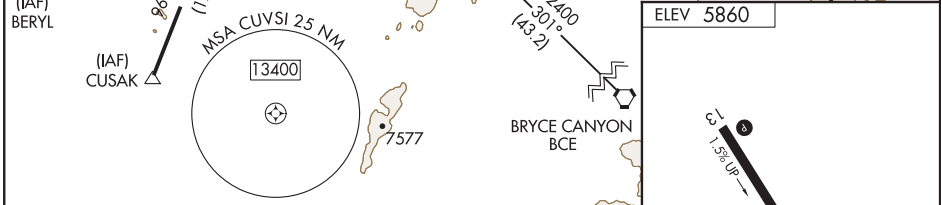
<p>▽ DME/DME RNP-0.3 NA. ▲ NA If local altimeter setting not received, use Milford Muni altimeter setting and increase all MDAs 180 feet.</p>	<p>MISSED APPROACH: Climbing left turn to 9600 direct VOGUY and hold.</p>
--	---

AWOS-3 119.925	SALT LAKE CITY CENTER 125.575 379.275	CTAF 122.9
--------------------------	---	----------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	7080-1¼ 1220 (1300-1¼)	7080-1½ 1220 (1300-1½)	7080-3 1220 (1300-3)	NA

MIRL Rwy 13-31
REIL Rwy 13 and 31

BLANDING, UTAH

AL-5667 (FAA)

15176

WAAS CH 63024 W35A	APP CRS 348°	Rwy Idg TDZE Apt Elev	5781 5821 5868
--	------------------------	-----------------------------	---

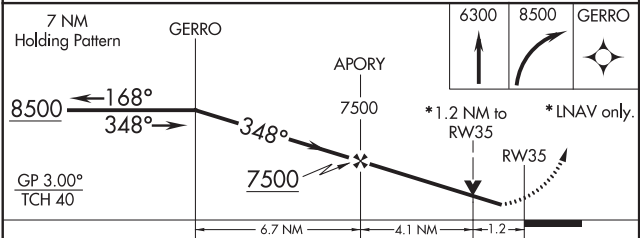
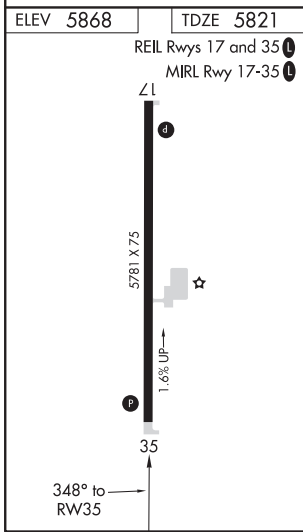
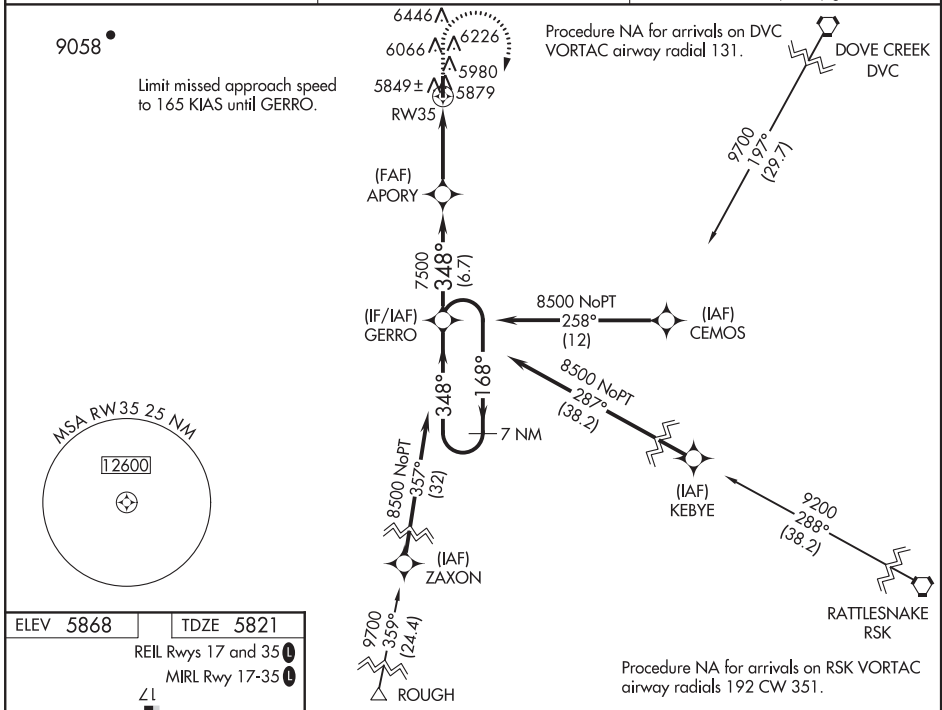
RNAV (GPS) RWY 35

BLANDING MUNI (BDG)

NA Baro-VNAV and VDP NA when using Cortez altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 54°C (130°F). When local altimeter setting not received, use Cortez altimeter setting increase all DA 109 feet and all MDA 120 feet; increase LPV and LNAV/VNAV all Cats visibility to 1¼; LNAV Cat C visibility to 1½ and Circling Cat C visibility to 2. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 6300 then climbing right turn to 8500 direct GERRO and hold.

AWOS-3 127.75	DENVER CENTER 127.55 343.95	UNICOM 122.8 (CTAF)
-------------------------	---------------------------------------	-------------------------------



CATEGORY	A	B	C	D
LPV DA	6071-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	6071-7/8	250 (300-7/8)		NA
LNAV MDA	6200-1	379 (400-1)	6200-1¼ 379 (400-1¼)	NA
CIRCLING	6380-1 512 (600-1)	6400-1 532 (600-1)	6460-1½ 592 (600-1½)	NA

BLANDING, UTAH
Amdt 2B 21AUG14

37°35'N-109°29'W

BLANDING MUNI (BDG) RNAV (GPS) RWY 35

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 50426 W35A	APP CRS 358°	Rwy Idg 8900 TDZE 4230 Apt Elev 4230
---------------------------------	------------------------	---

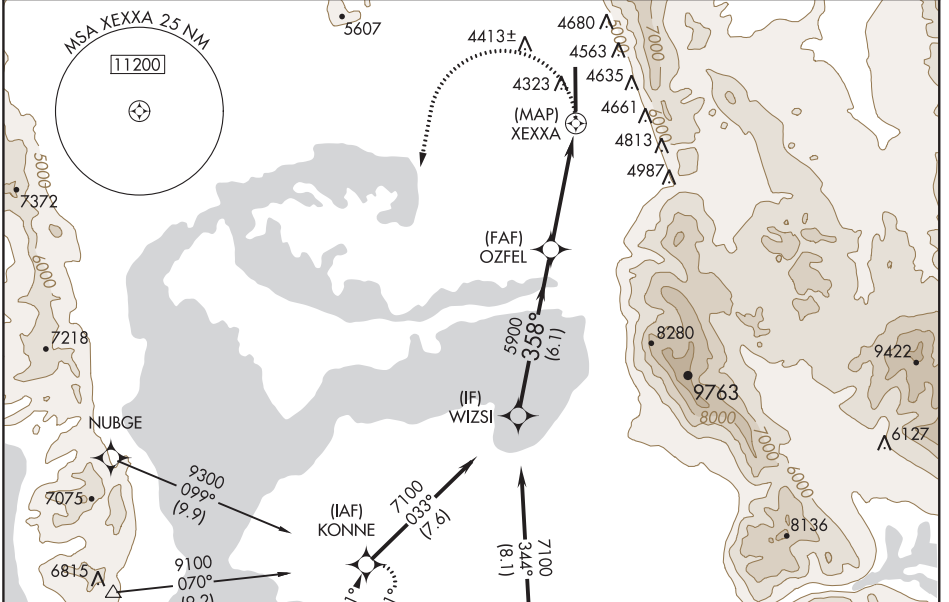
RNAV (GPS) RWY 35

BRIGHAM CITY (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 ⅓ 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. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH:
Climbing left turn to 7100 direct KONNE and hold.

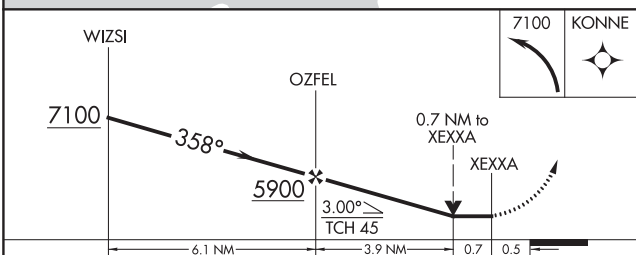
AWOS-3 135.075	SALT LAKE CITY APP CON 121.1 319.25	CLNC DEL 126.0	UNICOM 123.05 (CTAF) 0
--------------------------	---	--------------------------	----------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

Procedure NA for arrivals on OGD VORTAC airway radials 302 CW 068.



ELEV 4230	TDZE 4230
-----------	-----------

MIRL Rwy 17-35 0
REIL Rwy 17 and 35 0

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

BRYCE CANYON, UTAH

AL-979 (FAA)

15176

WAAS CH 58116 W03A	APP CRS 033°	Rwy Idg TDZE 7395 Apt Elev 7590
--	------------------------	---

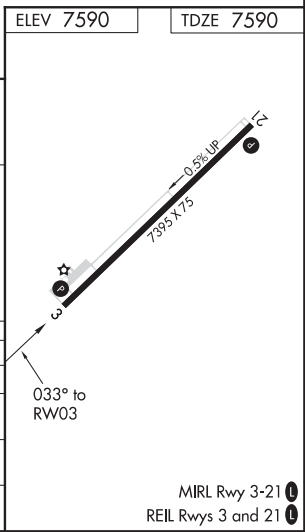
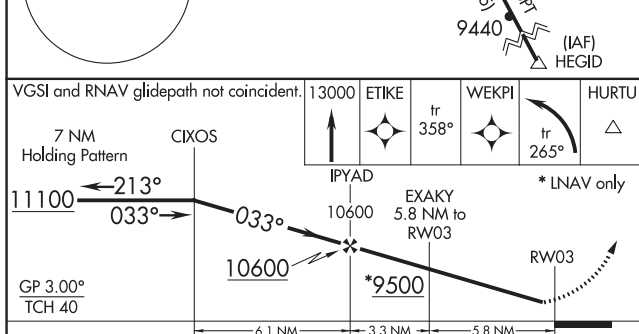
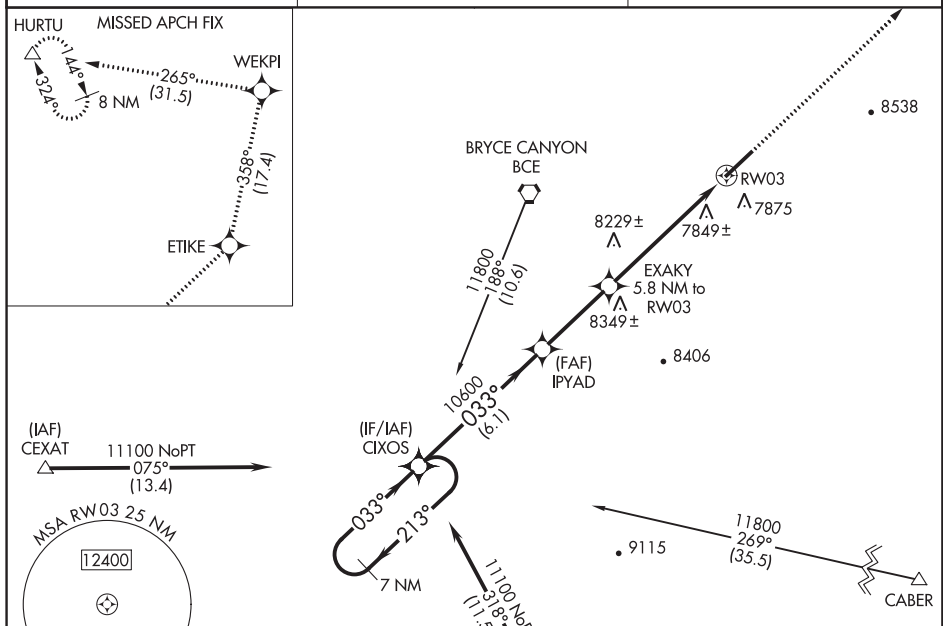
RNAV (GPS) RWY 3

BRYCE CANYON (BCE)

⚠ Night landing Rwy 3 NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 54°C (130°F).

⚠ MISSED APPROACH: Climb to 13000 direct ETIKE and on track 358° to WEKPI and left turn via track 265° to HURTU and hold.

ASOS 135.475	SALT LAKE CITY CENTER 133.6 269.25	UNICOM 122.8 (CTAF)
------------------------	--	-------------------------------



CATEGORY	A	B	C	D
LPV DA	7840-1	250 (300-1)		NA
LNAV/VNAV DA	8183-2	593 (600-2)		NA
LNAV MDA	8440-1 850 (900-1)	8440-1¼ 850 (900-1¼)	8440-2½ 850 (900-2½)	NA
CIRCLING	8440-1 850 (900-1)	8440-1¼ 850 (900-1¼)	8440-2½ 850 (900-2½)	NA

BRYCE CANYON, UTAH
Orig-C 26JUN14

37°42'N-112°09'W

BRYCE CANYON (BCE) RNAV (GPS) RWY 3

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 21

BRYCE CANYON (BCE)

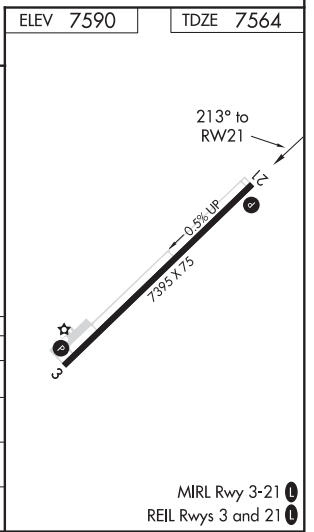
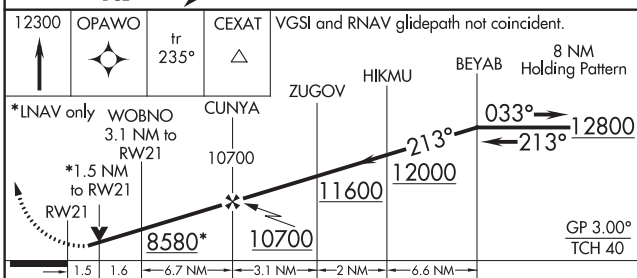
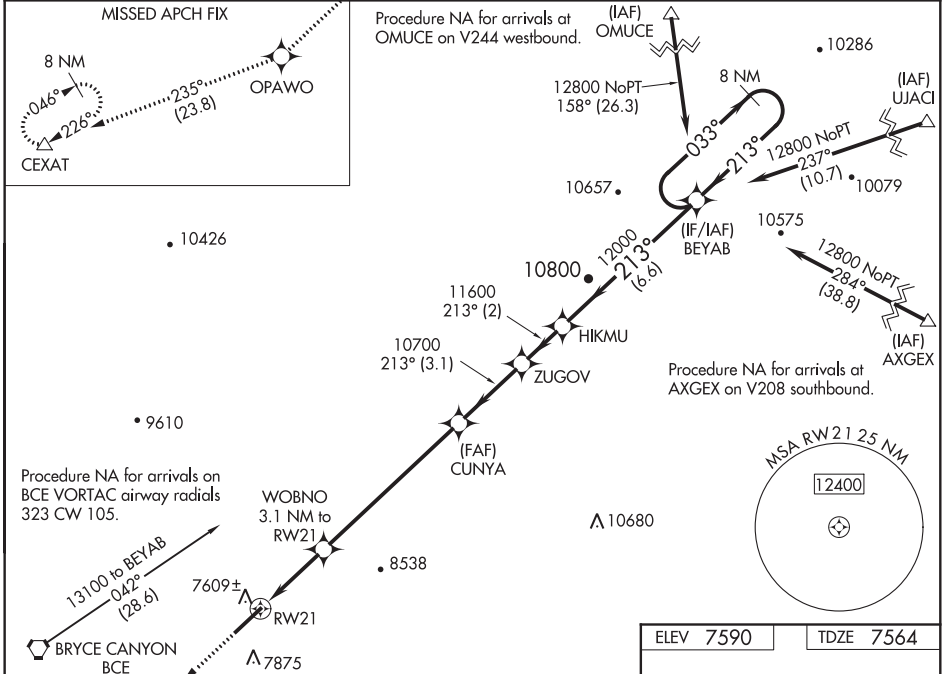
WAAS CH 99516 W21A	APP CRS 213°	Rwy Idg TDZE Apt Elev	7395 7564 7590
--	------------------------	-----------------------------	---

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 54°C (130°F). When local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

❄ -30°C/-22°F

MISSED APPROACH:
Climb to 12300 direct OPAWO and on track 235° to CEXAT and hold.

ASOS 135.475	SALT LAKE CITY CENTER 133.6 269.25	UNICOM 122.80 (CTAF) 0
------------------------	--	----------------------------------



CATEGORY	A	B	C	D
LPV DA	7889-1 1/8		325 (300-1 1/8)	NA
LNAV/VNAV DA	8016-1 1/2		452 (500-1 1/2)	NA
LNAV MDA	8040-1	476 (500-1)	8040-1 3/8 476 (500-1 3/8)	NA
CIRCLING	8200-1 610 (700-1)	8220-1 630 (700-1)	8240-1 3/4 650 (700-1 3/4)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

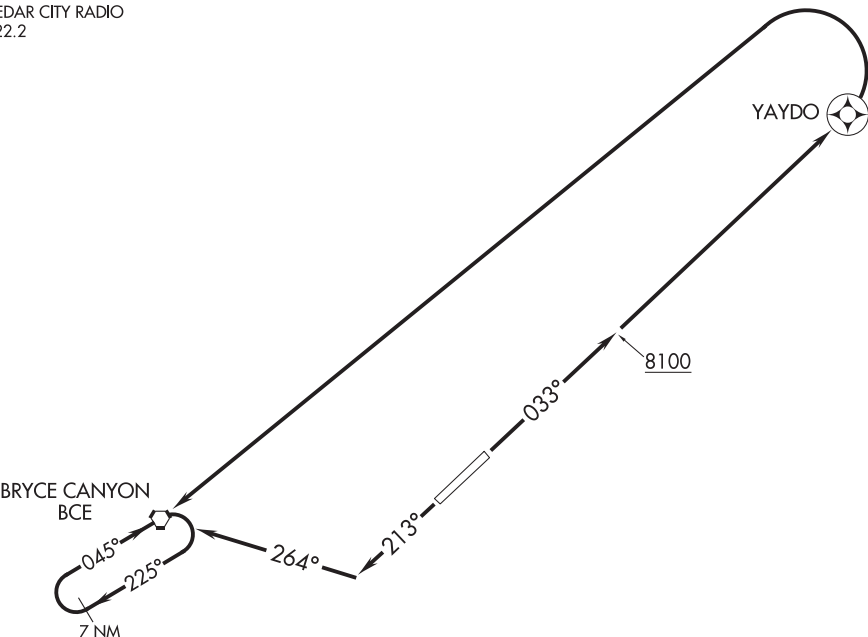
(BRYCE2.BRYCE) 15344

BRYCE TWO DEPARTURE (OBSTACLE) (RNAV)

SL-979 (FAA)

BRYCE CANYON (BCE)
BRYCE CANYON, UTAH

SALT LAKE CITY CENTER
133.6 269.25
CEDAR CITY RADIO
122.2



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.

BRYCE TWO DEPARTURE (OBSTACLE) (RNAV)

(BRYCE2.BRYCE) 15344

BRYCE CANYON, UTAH
BRYCE CANYON (BCE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 82624 W16A	APP CRS 164°	Rwy Idg THRE Apt Elev	7500 625 701
--	------------------------	-----------------------------	---

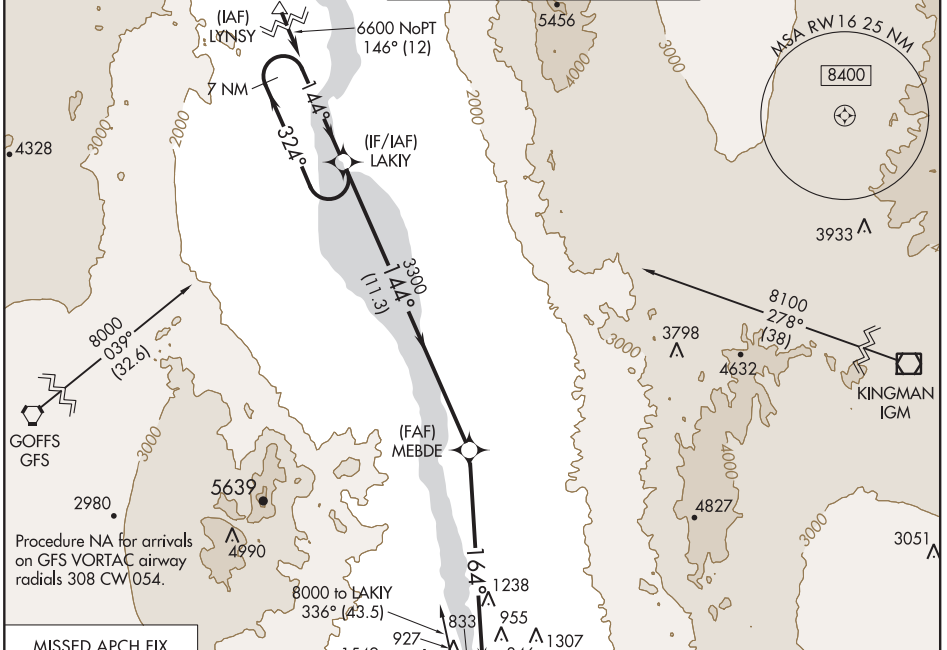
RNAV (GPS) RWY 16

LAUGHLIN/BULLHEAD INTL (IFP)

⚠ When local altimeter setting not received, use Needles altimeter setting and increase all MDA 100 feet. DME/DME RNP-0.3 NA.
⚠ Procedure NA at night. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6300 direct CALRA and hold, continue climb-in-hold to 6300.

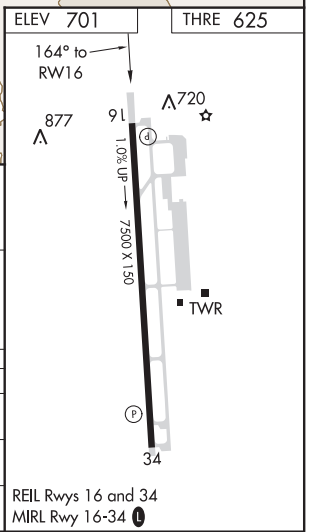
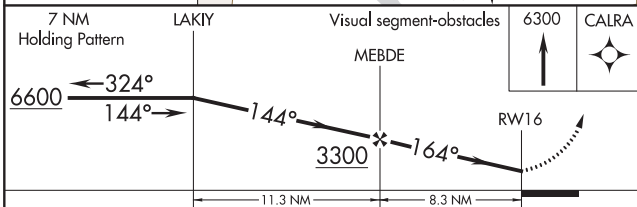
ATIS* 119.825	LOS ANGELES CENTER 134.65 360.65	LAUGHLIN/BULLHEAD TOWER* 123.9 (CTAF)	GND CON 118.25
-------------------------	--	---	--------------------------



MISSED APCH FIX

Procedure NA for arrivals on GFS VORTAC airway radials 308 CW 054.

Procedure NA for arrivals on EED VORTAC airway radials 257 CW 026.



CATEGORY	A	B	C	D
LP MDA	1860-1¼ 1235 (1300-1¼)	1860-1½ 1235 (1300-1½)	1860-3	1235 (1300-3)
LNAV MDA	1860-1¼ 1235 (1300-1¼)	1860-1½ 1235 (1300-1½)	1860-3	1235 (1300-3)
CIRCLING	1860-1¼ 1159 (1200-1¼)	1860-1½ 1159 (1200-1½)	1860-3	1159 (1200-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BULLHEAD CITY, ARIZONA

AL-6967 (FAA)

15232

WAAS CH 82602 W34A	APP CRS 344°	Rwy Idg TDZE Apt Elev	7500 699 701
--	------------------------	-----------------------------	---

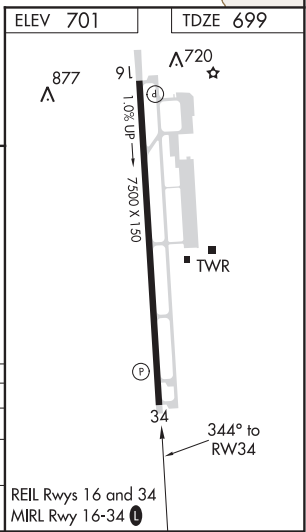
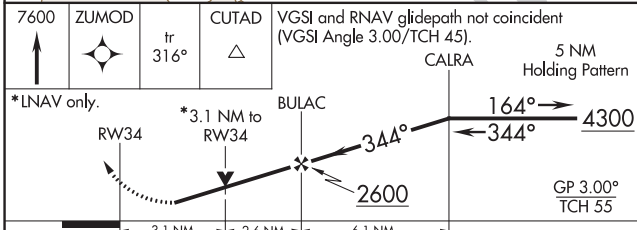
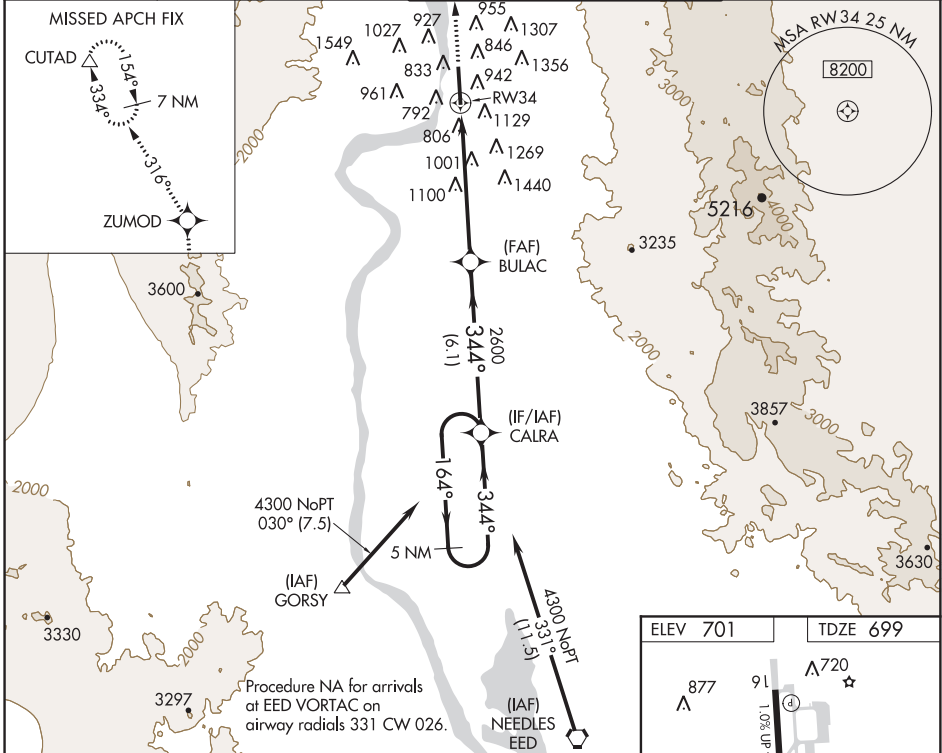
RNAV (GPS) RWY 34

LAUGHLIN/BULLHEAD INTL (IFP)

⚠ Circling to Rwy 16 NA at night.
⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Needles altimeter setting and increase LPV DA 94 feet and all MDA 100 feet.
 VDP NA when using Needles altimeter setting.

MISSED APPROACH: Climb to 7600 direct ZUMOD and via track 316° to CUTAD and hold, continue climb-in-hold to 7600.

ATIS* 119.825	LOS ANGELES CENTER 134.65 360.65	LAUGHLIN/BULLHEAD TOWER* 123.9 (CTAF) 0	GND CON 118.25
-------------------------	--	---	--------------------------



CATEGORY	A	B	C	D
LPV DA	1344-2½ 645 (700-2½)			
RNAV MDA	1740-1¼ 1041 (1100-1¼)	1740-1½ 1041 (1100-1½)	1740-3	1041 (1100-3)
CIRCLING	1740-1¼ 1039 (1100-1¼)	1740-1½ 1039 (1100-1½)	1740-3 1039 (1100-3)	1800-3 1099 (1100-3)

BULLHEAD CITY, ARIZONA
 Amdt 2 02JUL09

35°09'N-114°34'W

LAUGHLIN/BULLHEAD INTL (IFP)

RNAV (GPS) RWY 34

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC EED 115.2 Chan 99	APP CRS 335°	Rwy Idg 7500 TDZE 699 Apt Elev 701
--	------------------------	---

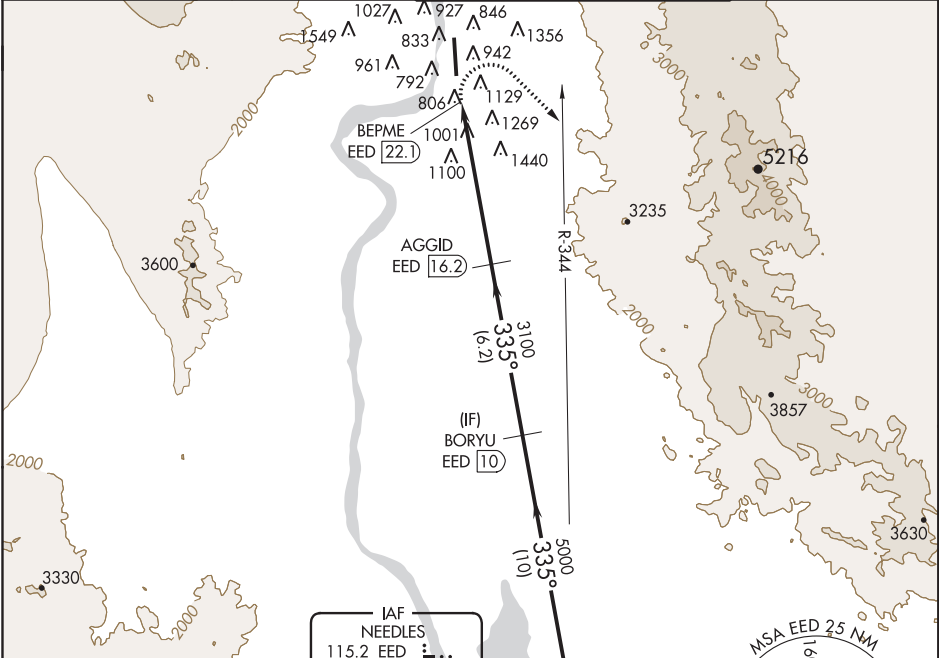
VOR/DME RWY 34

LAUGHLIN/BULLHEAD INTL (IFP)

⚠ Circling to Rwy 16 NA at night. Visibility reduction by helicopters NA. When local altimeter setting not received, use Needles altimeter setting and increase all MDA 100 feet.

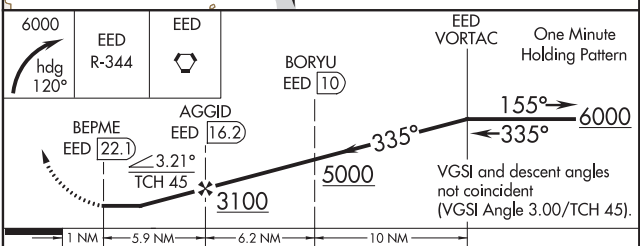
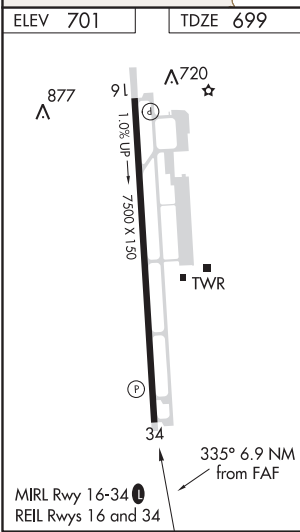
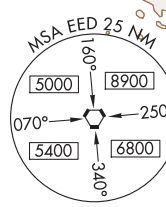
⚠ MISSED APPROACH: Climbing right turn to 6000 via heading 120° and EED VORTAC R-344 to EED VORTAC and hold.

ATIS* 119.825	LOS ANGELES CENTER 134.65 360.65	LAUGHLIN/BULLHEAD TOWER* 123.9 (CTAF)	GND CON 118.25
-------------------------	--	---	--------------------------



IAF
NEEDLES
115.2 EED
Chan 99

NoPt for arrival on
EED VORTAC airway
radials 077 CW 257.



CATEGORY	A	B	C	D
S-34	2840-1¼ 2141 (2200-1¼)	2840-1½ 2141 (2200-1½)	2840-3	2141 (2200-3)
CIRCLING	2840-1¼ 2139 (2200-1¼)	2840-1½ 2139 (2200-1½)	2840-3	2139 (2200-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

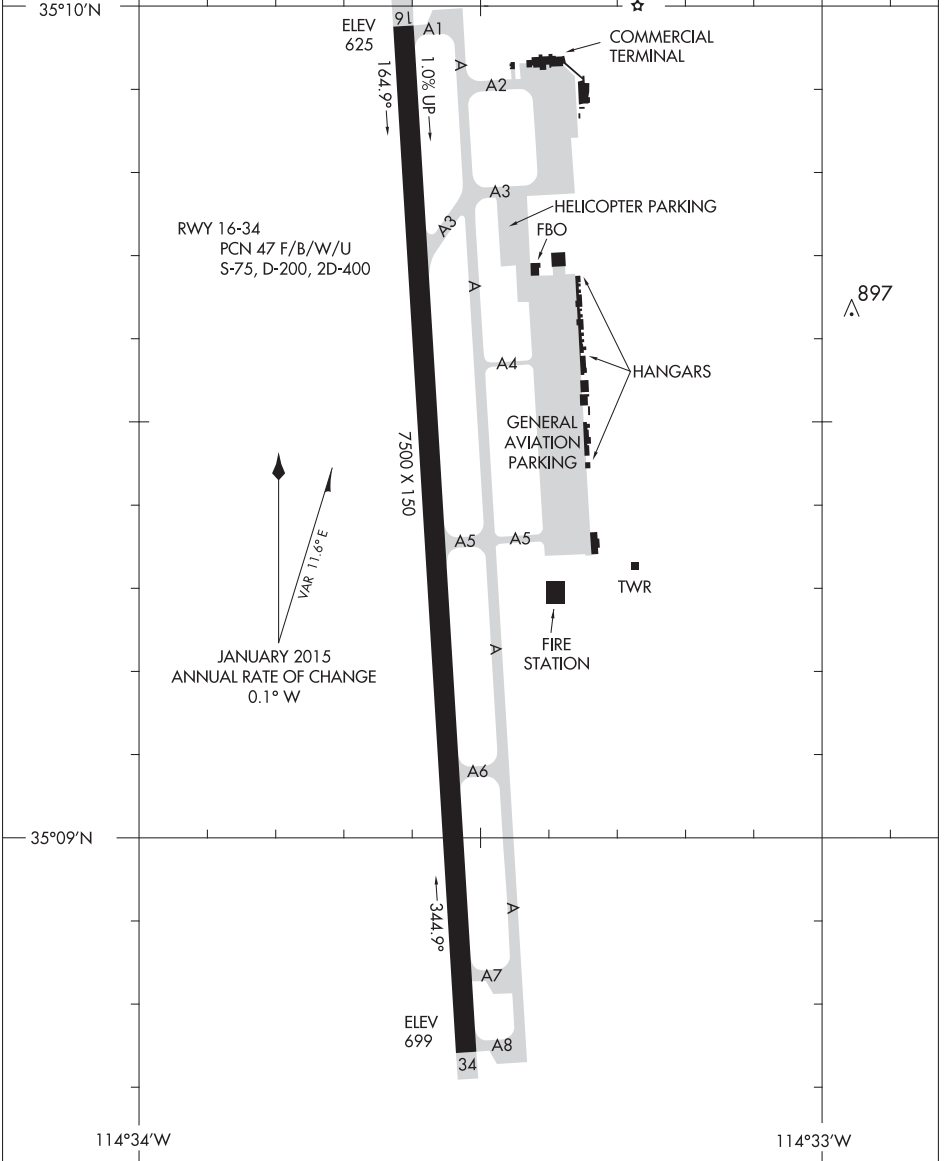
AL-6967 (FAA)

LAUGHLIN/BULLHEAD INTL (IFP)
BULLHEAD CITY, ARIZONA

ATIS
 119.825
 BULLHEAD TOWER ★
 123.9
 GND CON
 118.25
 CLNC DEL
 118.25 (When Tower Closed)

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

FIELD
 ELEV
 699



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

BULLHEAD CITY, ARIZONA
LAUGHLIN/BULLHEAD INTL (IFP)

WAAS CH 87031 W27A	APP CRS 240°	Rwy Idg TDZE Apt Elev	6101 4702 4705
--	------------------------	-----------------------------	---

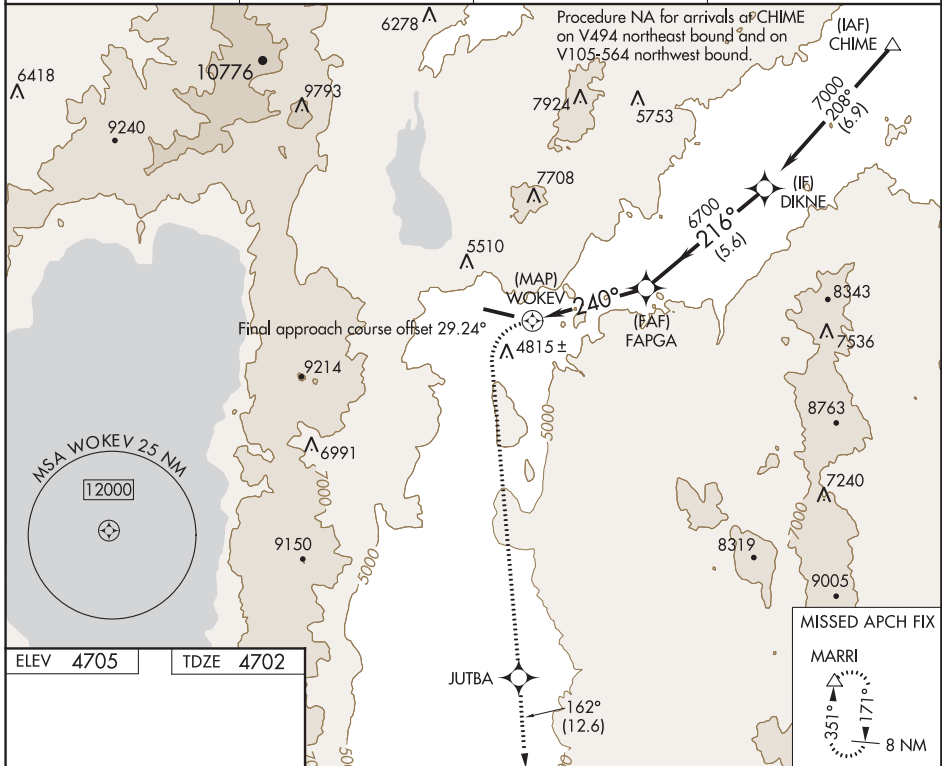
RNAV (GPS) RWY 27

CARSON (CXP)

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.

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 119.925	NORCAL APP CON 119.2 279.55	CLNC DEL 133.25	UNICOM 123.0 (CTAF)
----------------------------	---------------------------------------	---------------------------	-------------------------------



ELEV 4705	TDZE 4702
-----------	-----------

TDZL Rwy 9 and 27
MIRL Rwy 9-27
REIL Rwy 9 and 27

13400	JUTBA	tr	MARRI	VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 41).
	162°			DIKNE
				FAPGA
	WOKEV	3.77°	TCH 41	7000
	240°	6700	216°	
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	
CIRCLING	6180-1¼ 1475 (1500-1¼)	6180-1½ 1475 (1500-1½)	NA	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

CARSON CITY, NEVADA

AL-6515 (FAA)

16091

APP CRS 342°	Rwy Idg TDZE Apt Elev	N/A N/A 4705
------------------------	-----------------------------	---

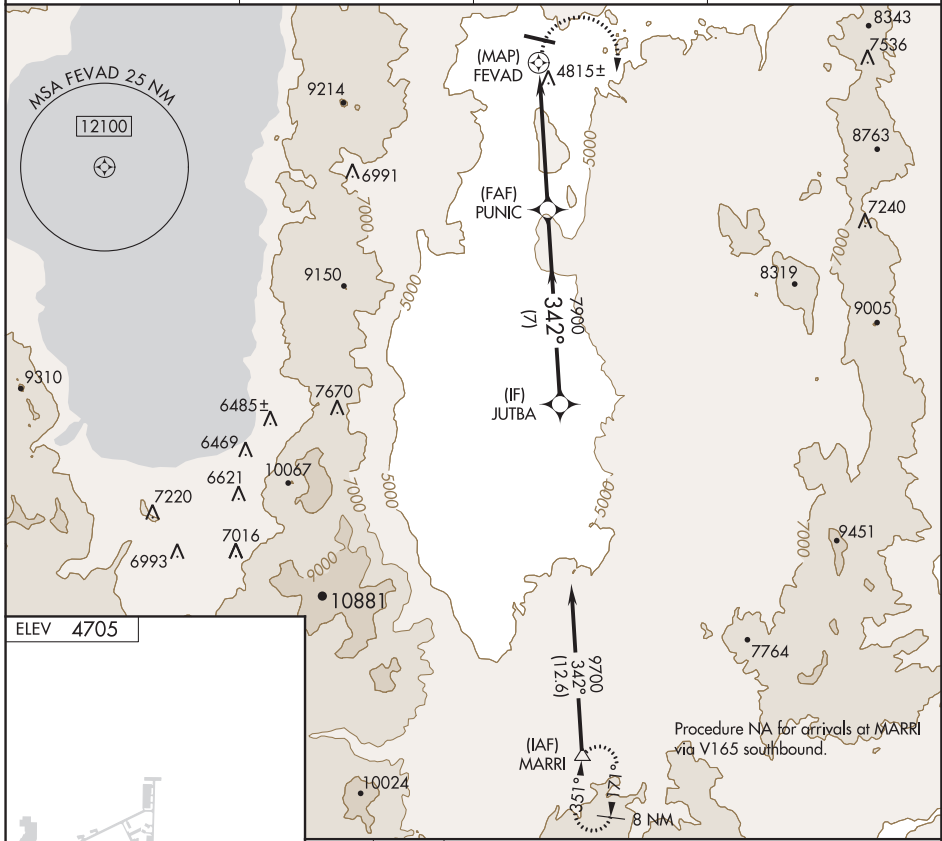
RNAV (GPS)-A

CARSON (CXP)

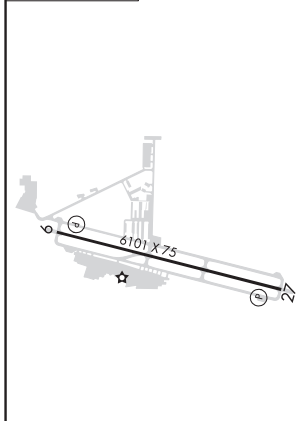
NA DME/DME RNP-0.3 NA. Procedure NA at night.
 When local altimeter setting not received, use Reno/Tahoe
 Intl altimeter setting and increase all MDA 540 feet.

MISSED APPROACH: Climbing right turn to 13000 direct MARRI and hold, continue climb-in-hold to 13000.

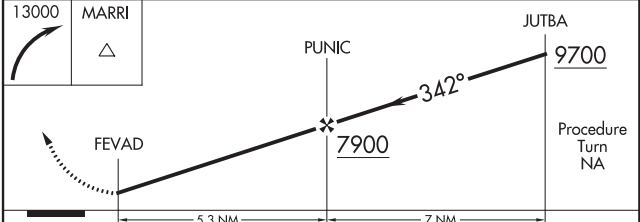
AWOS-3PT 119.925	NORCAL APP CON 119.2 279.55	CLNC DEL 133.25	UNICOM 123.0 (CTAF)
----------------------------	---------------------------------------	---------------------------	-------------------------------



ELEV **4705**



TDZL Rwy 9 and 27
 MIRL Rwy 9-27
 REIL Rwy 9 and 27



CATEGORY	A	B	C	D
CIRCLING	6380-1¼ 1675 (1700-1¼)	6380-1½ 1675 (1700-1½)	6380-3 1675 (1700-3)	6440-3 1735 (1800-3)

CARSON CITY, NEVADA
 Amdt 1 29JUL10

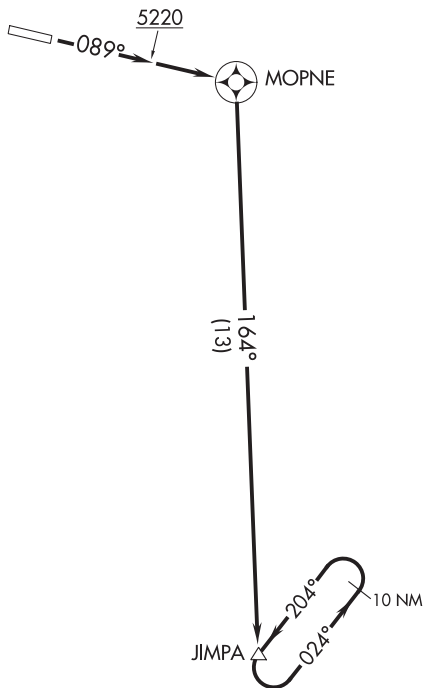
39°12'N-119°44'W

RNAV (GPS)-A

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 11 400'.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

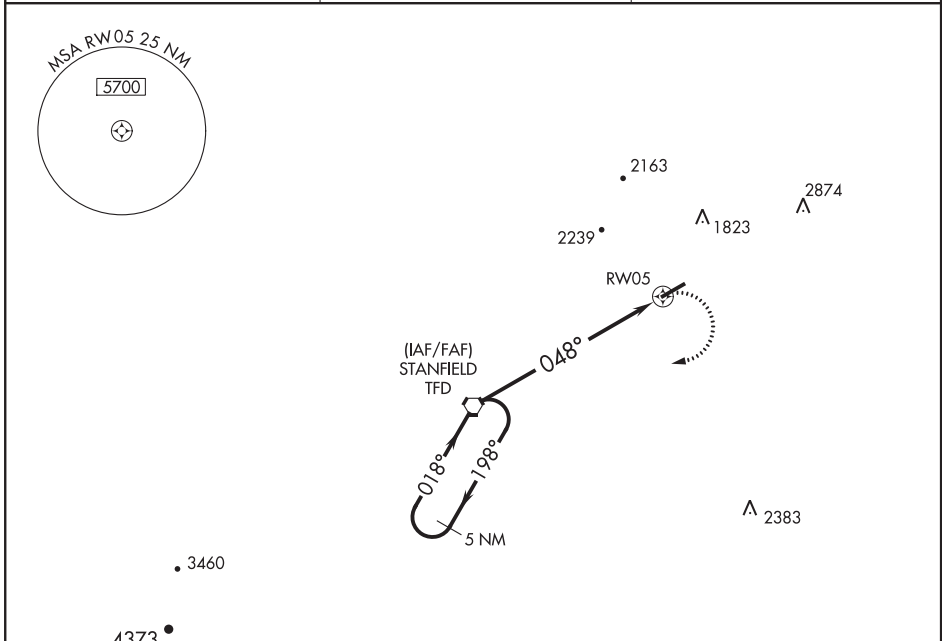
APP CRS 048°	Rwy Idg TDZE Apt Elev	5200 1458 1464
------------------------	-----------------------------	---

GPS RWY 5

CASA GRANDE MUNI (CGZ)

<p>▽ For inoperative MALSR, increase S-5 Cats A/B visibility to 1 mile. Circling to Rwy 23 NA at night. Helicopter visibility reduction below 3/4 SM NA.</p> <p>▲ NA</p>	<p>MALSR</p>	<p>MISSED APPROACH: Climbing right turn to 5600 direct TFD VORTAC and hold.</p>
--	---------------------	--

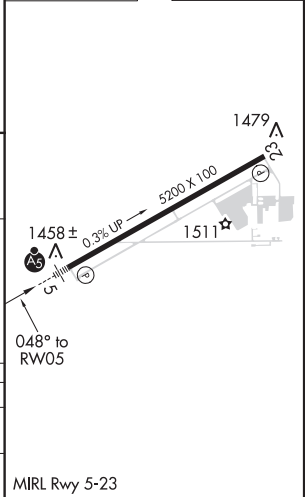
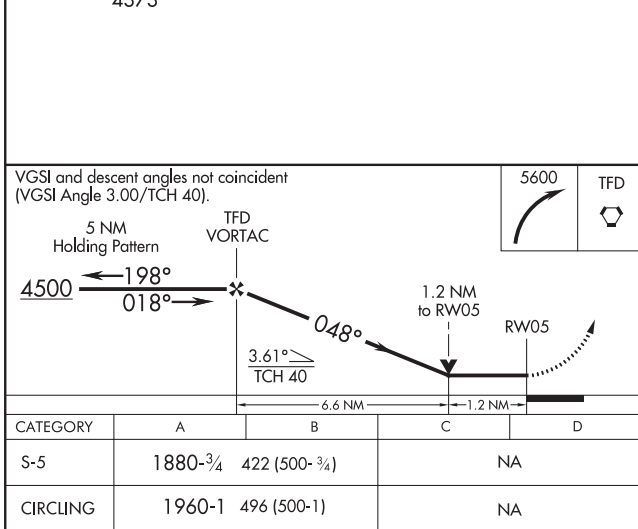
<p>AWOS-3 132.175</p>	<p>ALBUQUERQUE CENTER 125.4 269.3</p>	<p>UNICOM 122.7 (CTAF) </p>
----------------------------------	--	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1464	TDZE 1458
-----------	-----------



CASA GRANDE, ARIZONA

AL-6656 (FAA)

14317

VORTAC TFD 114.8 Chan 95	APP CRS 048°	Rwy Idg TDZE 1458 Apt Elev 1464
--	------------------------	---

VOR RWY 5

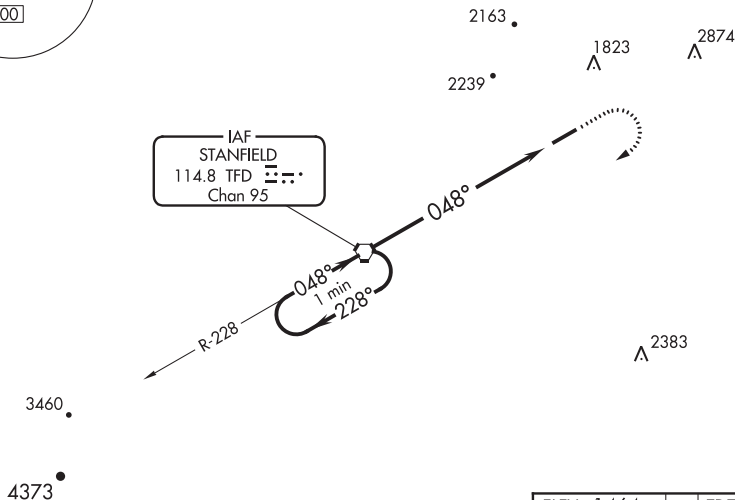
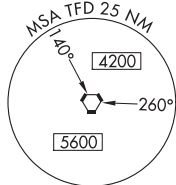
CASA GRANDE MUNI (CGZ)

▼ For inoperative MALS, increase S-5 visibility Cats A/B to 1 mile. Helicopter visibility reduction below 3/4 SM NA. Circling to Rwy 23 NA at night.

MALS

MISSED APPROACH: Climb to 2200, then climbing right turn to 3500 direct TFD VORTAC and hold.

AWOS-3 132.175	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.7 (CTAF)
--------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1464	TDZE 1458
-----------	-----------

One Minute Holding Pattern

3500 ← 228° / → 048°

TFD VORTAC

2200 3500 TFD

TFD 6.4 TFD 7.8

6.4 NM 1.4

1458 ± 0.3% UP 5200 x 100 1511 1479

048° 7.8 NM from FAF

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

CATEGORY	A	B	C	D
S-5	1960-3/4	502 (500-3/4)	NA	
CIRCLING	1960-1	496 (500-1)	NA	

CASA GRANDE, ARIZONA
Amdt 4D 13NOV14

32°57'N-111°46'W

CASA GRANDE MUNI (CGZ) VOR RWY 5

LOC I-ECC 110.1	APP CRS 200°	Rwy ldg TDZE 8653 5600	Apt Elev 5622
---------------------------	------------------------	--------------------------------------	-------------------------

ILS or LOC RWY 20

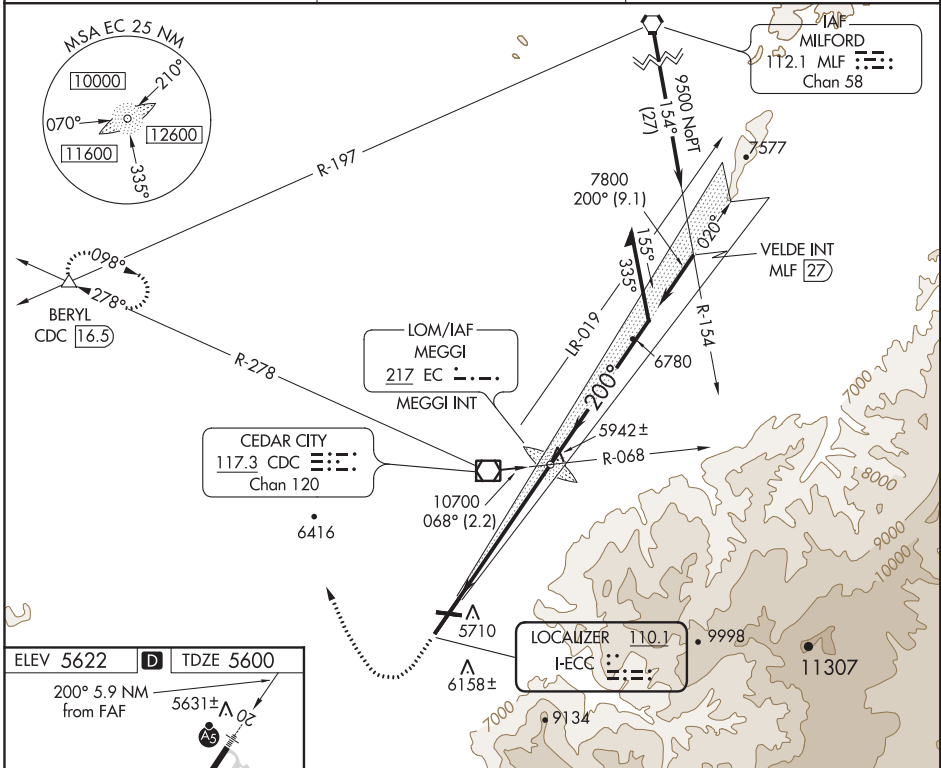
CEDAR CITY RGNL (CDC)

⚠ Circling not authorized east of Rwy 2-20.

MALSR 

MISSED APPROACH: Climb to 6100, then climbing right turn to 9500 via heading 322° and CDC VOR/DME R-278 to BERYL INT/16.5 DME and hold.

ASOS 119.025	CEDAR CITY RADIO 122.6 255.4	UNICOM 123.0 (CTAF) 0
------------------------	--	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5622 **D** TDZE 5600

200° 5.9 NM from FAF

5631± **A** 02

4822 X 60 0.9% UP

8453 X 150 0.4% UP

MIRL Rwy 8-26 **L**

HIRL Rwy 2-20 **L**

REIL Rwys 2, 8 and 26 **L**

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

6100	9500	CDC R-278	BERYL △	VGSI and ILS glidepath not coincident (VGSI angle 3.00/TCH 53). * EC LOM MEGGI INT
------	------	-----------	----------------	---

* Maintain 10700 or above until established outbound for Procedure Turn.

Remain within 10 NM

020° 9100

200° 7800

GS 3.00° TCH 47

5.9 NM

CATEGORY	A	B	C	D
S-ILS 20	5800-½ 200 (200-½)			
S-LOC 20	5960-½ 360 (400-½)			5960-¾ 360 (400-¾)
CIRCLING	5980-1 358 (400-1)	6080-1 458 (500-1)	6080-1½ 458 (500-1½)	6440-2¾ 818 (900-2¾)

CEDAR CITY, UTAH

AL-5139 (FAA)

15176

APP CRS 200°	Rwy Idg 8653
	TDZE 5600
	Apt Elev 5622

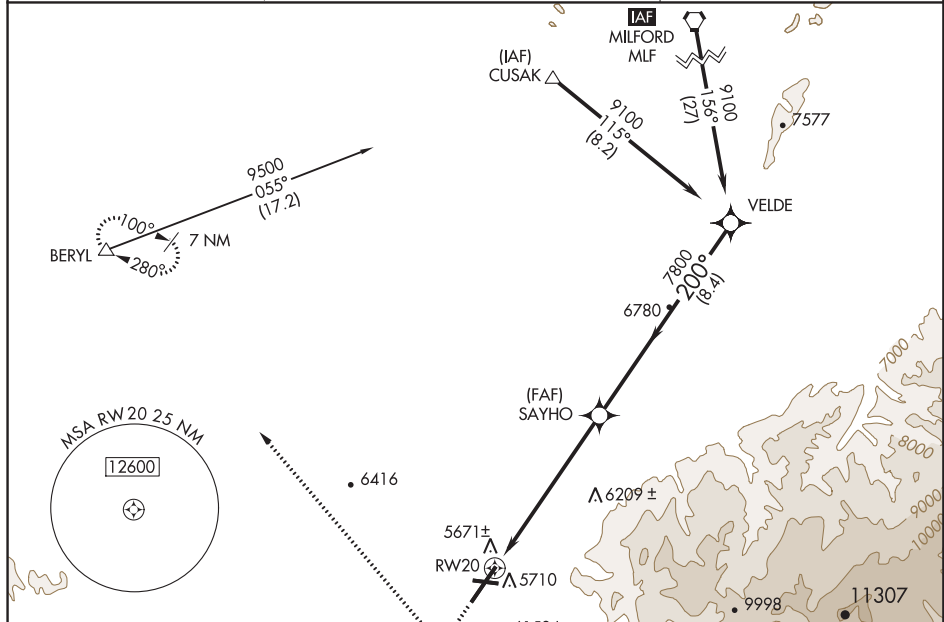
RNAV (GPS) RWY 20

CEDAR CITY RGNL (CDC)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Baro-VNAV NA below -26° C (-15° F).
Circling not authorized east of Rwy 2-20.
IAF ARM APPROACH MODE PRIOR TO IAF.

MALSR MISSED APPROACH: Climb to 9500 via 200° course to ZUMAS WP then via 306° course to BERYL WP and hold.

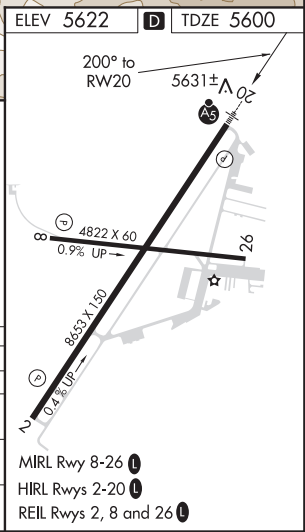
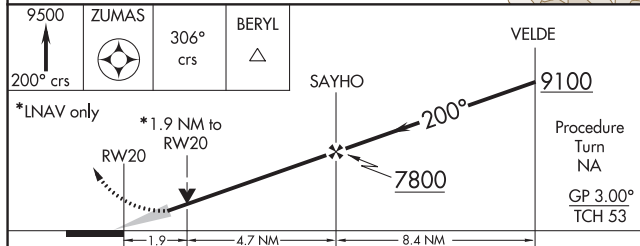
ASOS 119.025	CEDAR CITY RADIO 122.6 255.4	UNICOM 123.0 (CTAF)
------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5622	D TDZE 5600
-----------	--------------------



CATEGORY	A				B				C				D															
GLS	DA																											
LN/VN	NA																											
LN/VN	DA																											
	6000-1 400 (400-1)																											
LN/VN	MDA				6260-1½				660 (700-1½)				6260-1¼				660 (700-1¼)				6260-1½				660 (700-1½)			
CIRCLING	6260-1½				638 (700-1½)				6260-1¾				638 (700-1¾)				6440-2¾				818 (900-2¾)							

CEDAR CITY, UTAH
Orig 06SEP01

37°42'N - 113°06'W

RNAV (GPS) RWY 20

CEDAR CITY RGNL (CDC)

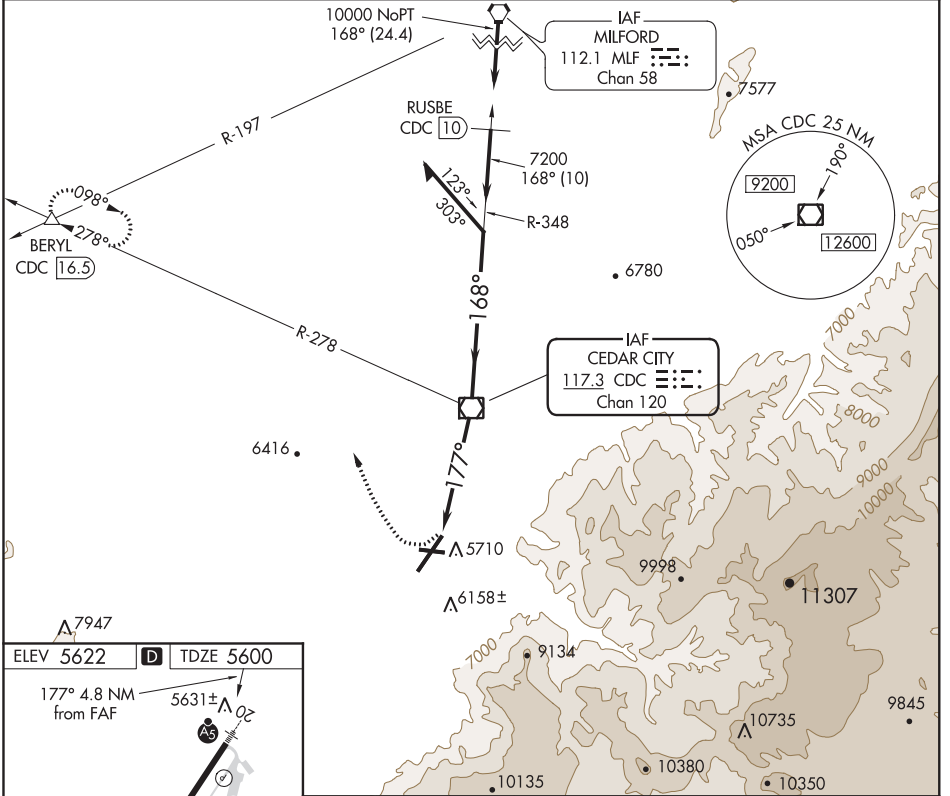
VOR/DME CDC 117.3 Chan 120	APP CRS 177°	Rwy Idg TDZE Apt Elev	8653 5600 5622
--	------------------------	-----------------------------	---

VOR RWY 20

CEDAR CITY RGNL(CDC)

<p>⚠ Circling not authorized east of Rwy 2-20. ⚠ Inoperative table does not apply.</p>	<p>MALSR</p>	<p>MISSED APPROACH: Climbing right turn to 9500 via 322° heading and CDC R-278 to BERYL INT/ CDC 16.5 DME and hold.</p>
--	---------------------	--

ASOS 119.025	CEDAR CITY RADIO 122.6 255.4	UNICOM 123.0 (CTAF)
------------------------	--	-------------------------------



ELEV 5622 **D** TDZE 5600

177° 4.8 NM from FAF

5631±

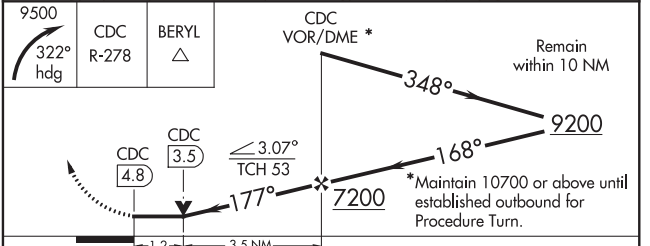
4822 X 60
0.9% UP

8653 X 150
0.4% UP

MIRL Rwy 8-26 **Ⓛ**
HIRL Rwys 2-20 **Ⓛ**
REIL Rwys 2, 8 and 26 **Ⓛ**

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	6040-1	440 (500-1)	6040-1¼	440 (500-1¼)
CIRCLING	6040-1 418 (500-1)	6080-1 458 (500-1)	6080-1½ 458 (500-1½)	6440-2¾ 818 (900-2¾)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

15064

AIRPORT DIAGRAM

AL-5139 (FAA)

CEDAR CITY RGNL (CDC)
CEDAR CITY, UTAH

ASOS
119.025
CTAF/UNICOM
123.0



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

5619

ELEV
5600

FIRE STATION

8
ELEV
5579

085.2°
0.9% UP

8633 X 150

4822 X 60

26
ELEV
5622

FIELD
ELEV
5622

HELIPAD
FIRE STATION

FBO

TERMINAL

022.7°
0.4% UP

2
ELEV
5578

RWY 02-20
S-75, D-100, 2S-127, 2D-150
RWY 08-26
S-16.5

113°06.5'W

113°06.0'W

113°05.5'W

37°42.5'N

37°42.0'N

37°41.5'N

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

15064

CEDAR CITY, UTAH
CEDAR CITY RGNL (CDC)

RNAV (GPS) RWY 4R

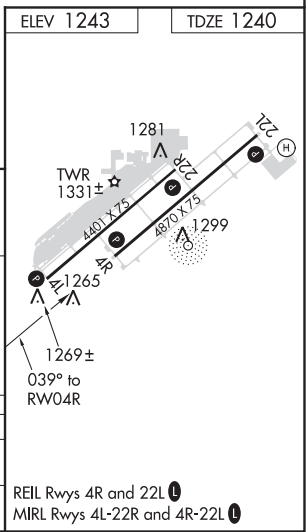
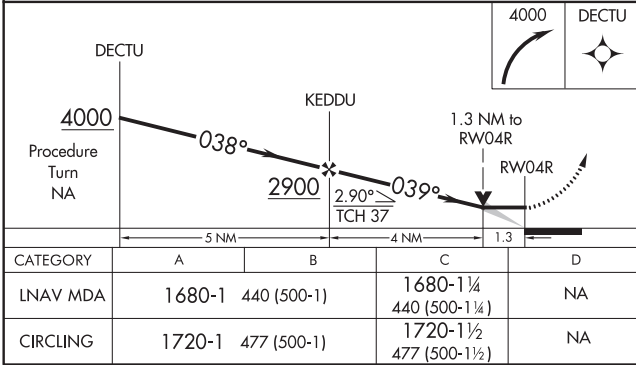
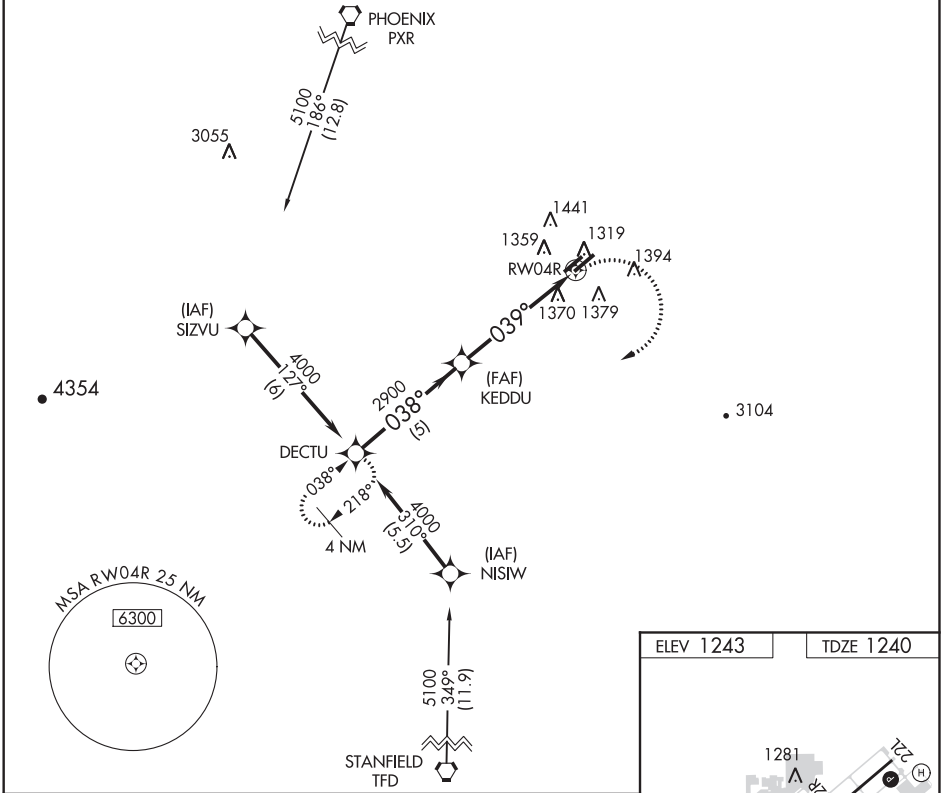
CHANDLER MUNI (CHD)

APP CRS 039°	Rwy Idg TDZE Apt Elev	4870 1240 1243
------------------------	-----------------------------	---

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 128.325	PHOENIX APP CON 123.7 363.0	CHANDLER TOWER ★ 126.1 (CTAF) 133.1 (North and West) (South and East)	GND CON 124.4	UNICOM 122.95
------------------------	---------------------------------------	--	-------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

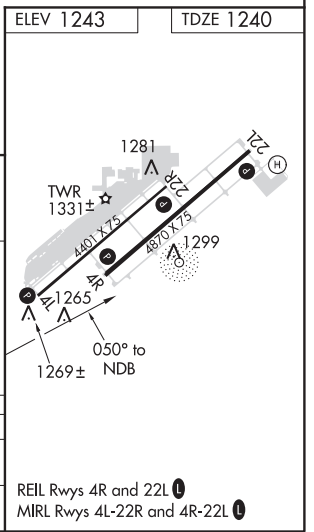
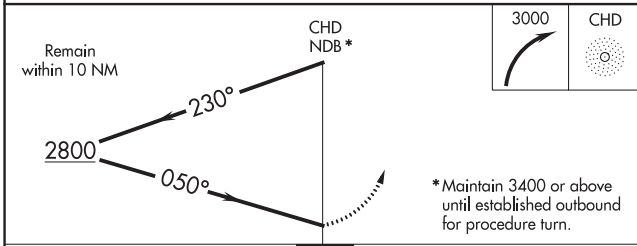
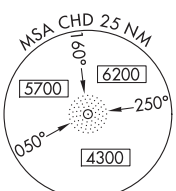
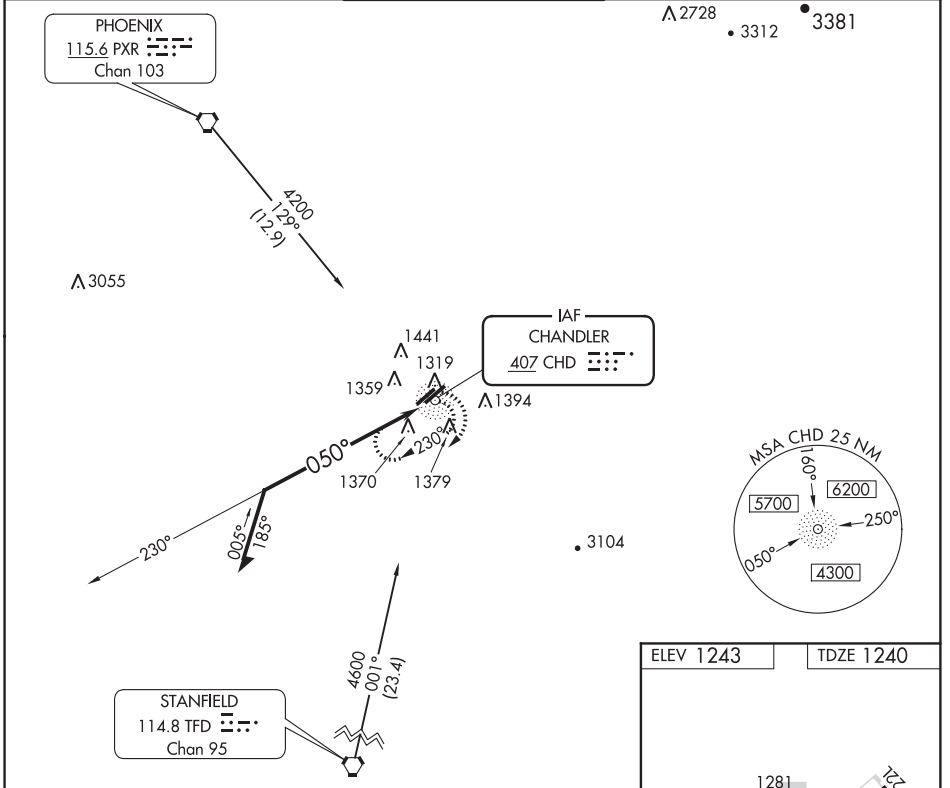
NDB CHD 407	APP CRS 050°	Rwy Idg TDZE Apt Elev	4870 1240 1243
-----------------------	------------------------	-----------------------------	---

NDB RWY 4R

CHANDLER MUNI (CHD)

⚠ When VGSI inoperative, Circling Rwy 4L NA at night. **MISSED APPROACH:** Climbing right turn to 3000 in CHD holding pattern.

ATIS 128.325	PHOENIX APP CON 123.7 363.0	CHANDLER TOWER* 126.1 (CTAF) 133.1 (North and West) (South and East)	GND CON 124.4	UNICOM 122.95
------------------------	---------------------------------------	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
S-4R	1780-1	540 (600-1)	1780-1½ 540 (600-1½)	NA
CIRCLING	1780-1	538 (600-1)	1780-1½ 538 (600-1½)	NA

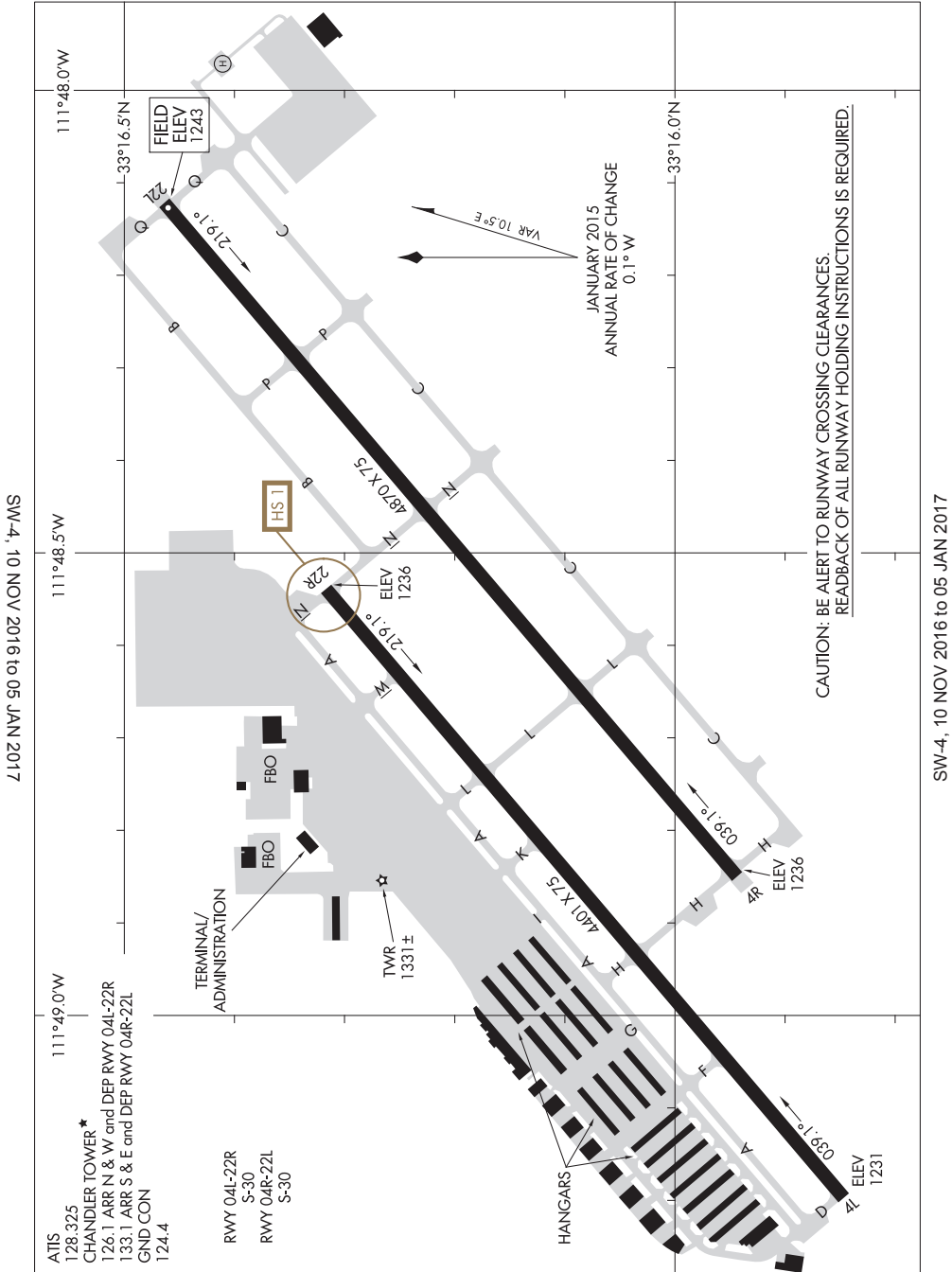
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA



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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

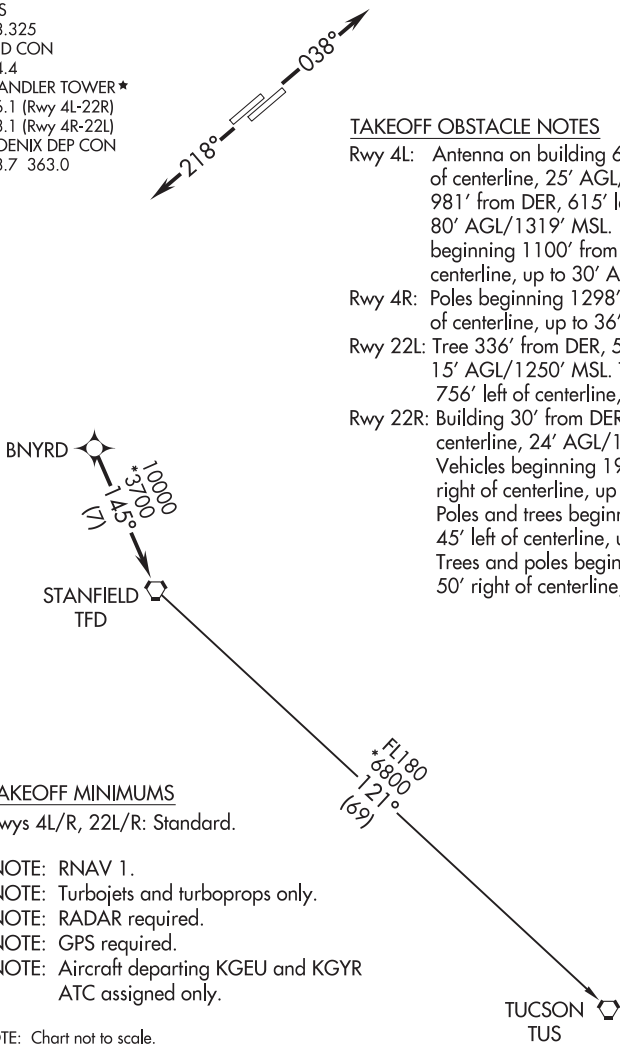
AIRPORT DIAGRAM

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**

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.



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), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

7 NOV 2017 01:01:01

TAKEOFF OBSTACLE NOTES

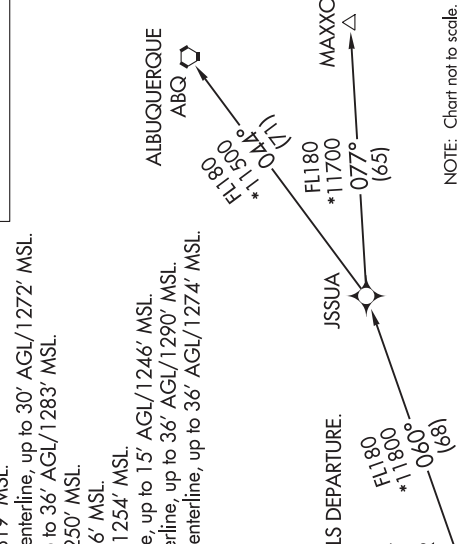
- Rwy 4L: Antenna on building 69' from DER, 515' left of centerline, 25' AGL/1281' MSL. Tower 981' from DER, 615' left of centerline, 80' AGL/1319' MSL. Trees and poles beginning 1100' from DER, 458' left of centerline, up to 30' AGL/1272' MSL.
- Rwy 4R: Poles beginning 1298' from DER, 56' left of centerline, 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.

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: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

FTHLS FIVE DEPARTURE (RNAV)

**TOP ALTITUDE:
ASSIGNED BY ATC**



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .

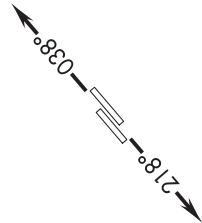
TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to BROAK, then on track 059° to FTHLS. Then on (transition), expect filed altitude 3 minutes after departure.

- ALBUQUERQUE TRANSITION (FTHLS5.ABQ)
- JNIPR TRANSITION (FTHLS5.JNIPR)
- MAXXO TRANSITION (FTHLS5.MAXXO)

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



SW-4, 10 NOV 2016 to 05 JAN 2017

IZZO FIVE DEPARTURE (RNAV)

SL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence,

TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence,

. . . . expect RADAR vectors to KEENS, then on track 259° to IZZO. Then on (transition), expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZO05.BLH)
JOLAR TRANSITION (IZZO05.JOLAR)
MESSI TRANSITION (IZZO05.MESSI)

TAKEOFF MINIMUMS

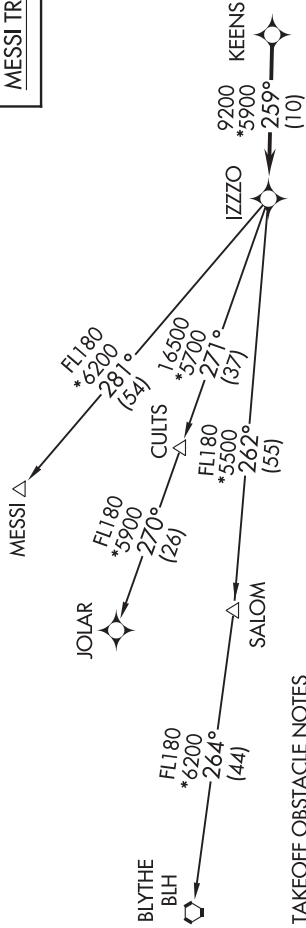
Rwys 4L/R, 22L/R: Standard.

NOTE: Chart not to scale.

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 JOLAR TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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 OBSTACLE NOTES

- Rwy 4L:** Antenna on building 69' from DER, 51.5' left of centerline, 25' AGL/1281' MSL. Tower 981' from DER, 61.5' 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.

IZZO FIVE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

JUDTH FIVE DEPARTURE (RNAV)

SL-6494 (FAA)

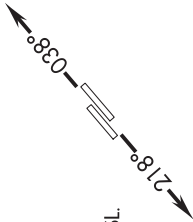
CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

7 NOV 2016 01:01:19.101 NOV 2016 01:05 JAN 2017

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 OBSTACLE NOTES

- Rwy 4L: Antenna on building 69' from DER, 51.5' left of centerline, 25' AGL/1281' MSL. Tower 981' from DER, 61.5' 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.



TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . . expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH. Then on (transition), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5.MOHAK)

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

7 10 20 17 01 9 1 20 17 01 05 JAN 2017

**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



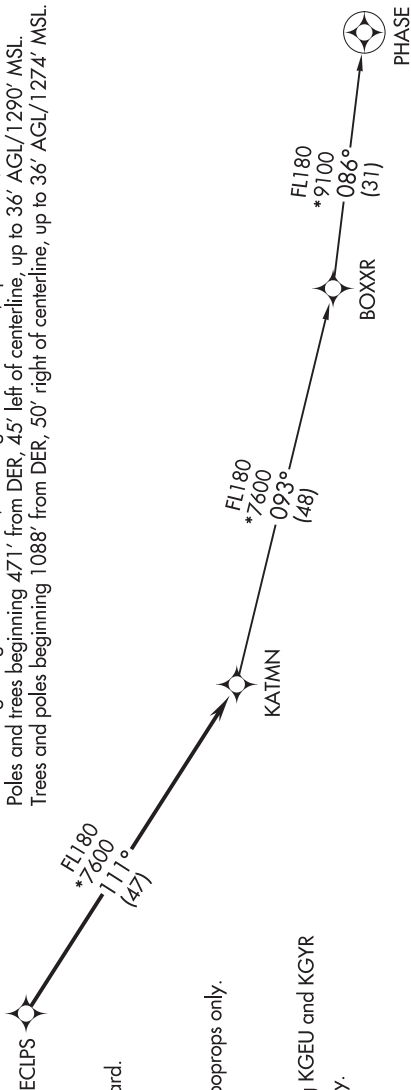
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .
. . . . expect RADAR vectors to ECLIPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.PHASE)

TAKEOFF OBSTACLE NOTES

Rwy 4L: Antenna on building 69' from DER, 51.5' 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.



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.

SW-4, 10 NOV 2016 to 05 JAN 2017

LALUZ FIVE DEPARTURE (RNAV)

SL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA

7 SW-4, 10 NOV 2016 to 05 JAN 2017

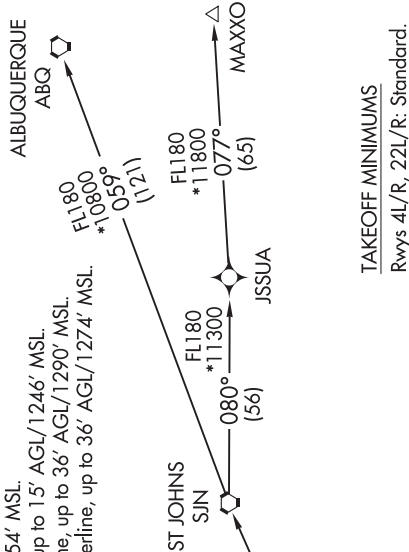
TAKEOFF OBSTACLE NOTES

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

Rwy 4L: Antenna on building 69' from DER, 51.5' left of centerline, 25' AGL/1281' MSL.
Tower 981' from DER, 61.5' 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, 516' 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.

NOTE: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: SIN 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 4L/R, 22L/R: Standard.

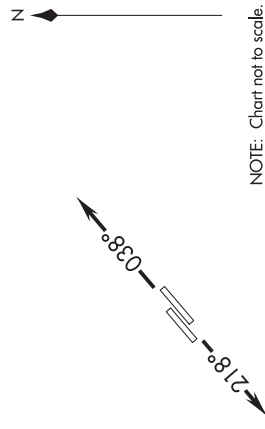
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .
. . . . expect RADAR vectors to FORPE, then on track 055° to LALUZ. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SJN)



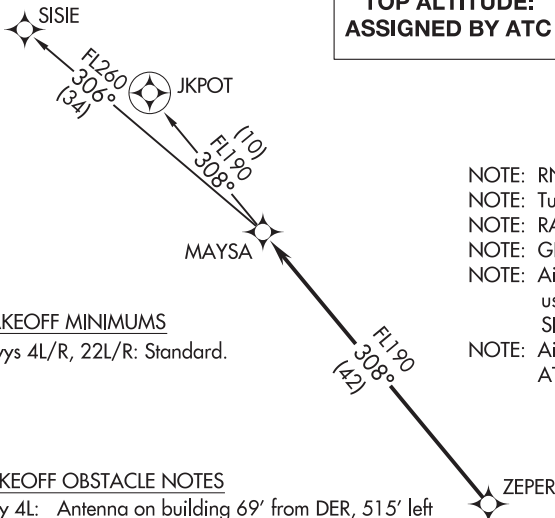
NOTE: Chart not to scale.

LALUZ FIVE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

**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



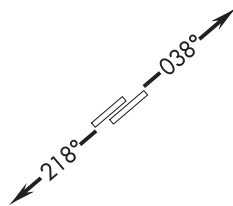
- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.

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.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

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

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.

RIMMM

LOFTS

YOOPR

JARPA

CARTL

SNOBL

QUAKY

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.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to QUAKY, then on track 343° to SNOBL. Then on (transition), expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL5.CARTL)

GRAND CANYON TRANSITION (SNOBL5.GCN)

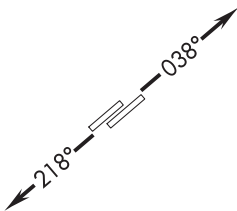
JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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

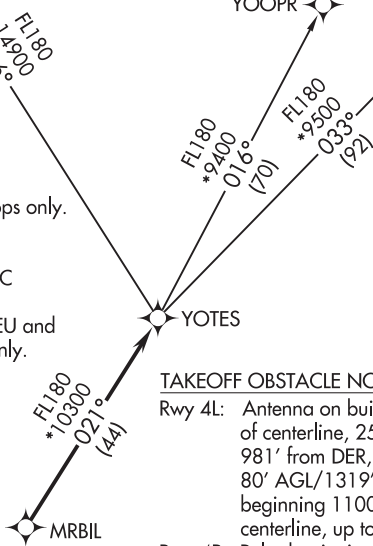
GRAND CANYON
GCN

**TOP ALTITUDE:
ASSIGNED BY ATC**

YOOPR

JARPA

- 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.

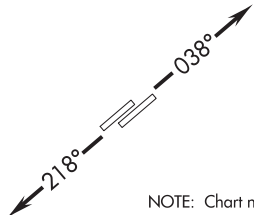


TAKEOFF OBSTACLE NOTES

- 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.

TAKEOFF MINIMUMS

Rwys 4L/R, 22L/R: Standard.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L, 4R: Climb heading 038° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 22L, 22R: Climb heading 218° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to MRBIL, then on track 021° to YOTES. Then on (transition), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

CHANDLER, ARIZONA

AL-6022 (FAA)

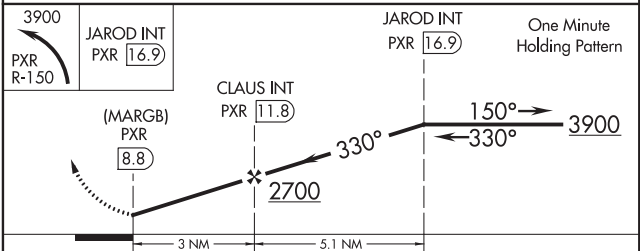
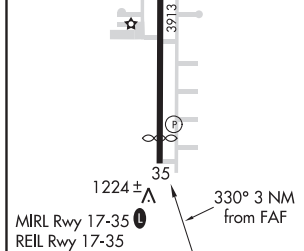
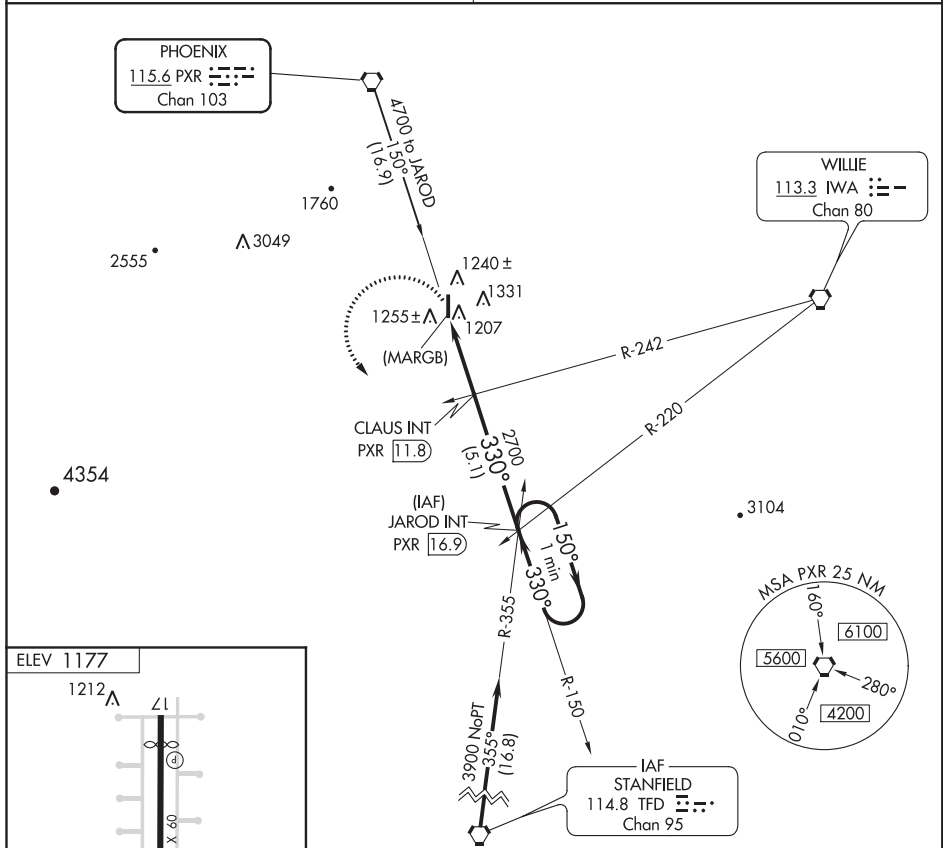
16035

VORTAC PXR 115.6 Chan 103	APP CRS 330°	Rwy Idg TDZE Apt Elev N/A N/A 1177
---	------------------------	--

VOR or GPS-A
STELLAR AIRPARK (P19)

NA Use Phoenix Sky Harbor Intl altimeter setting. Procedure not authorized at night. MISSED APPROACH: Climbing left turn to 3900 via PXR R-150 to JAROD Int/PXR 16.9 DME and hold.

PHOENIX APP CON **123.7 363.0** UNICOM **122.975(CTAF)**



FAF to MAP 3 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00

CATEGORY	A	B	C	D
CIRCLING	1640-1 463 (500-1)	1640-1 463 (500-1)	1640-1½ 463 (500-1½)	NA

CHANDLER, ARIZONA
Amdt 1B 18SEP14

33°18'N-111°55'W

STELLAR AIRPARK (P19)
VOR or GPS-A

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 082°	Rwy Idg TDZE Apt Elev	N/A N/A 3797
------------------------	-----------------------------	---

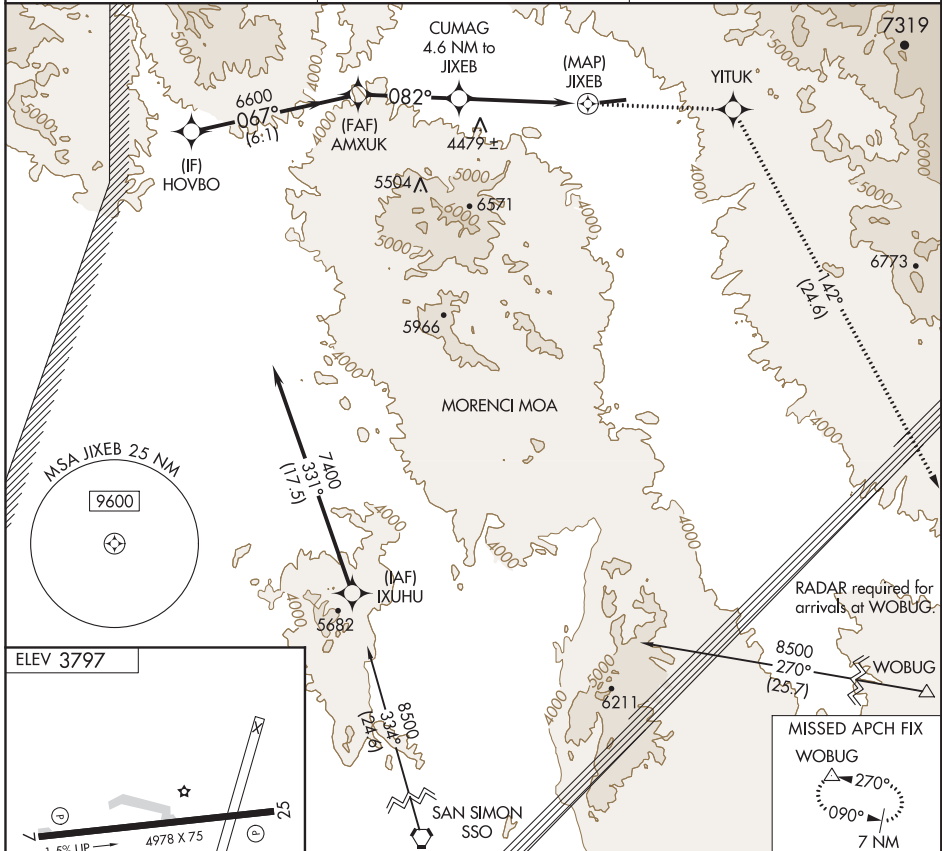
RNAV (GPS)-A

GREENLEE COUNTY (CFT)

⚠ When VGSI inop, Circling Rwy 25 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Safford altimeter setting and increase all MDA 140 feet.

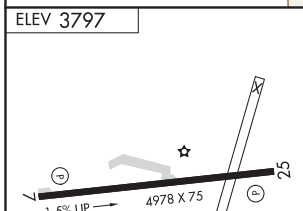
⚠ MISSED APPROACH: Climb to 9000 direct YITUK and on track 142° to WOBUG and hold.

AWOS-3 119.05	ALBUQUERQUE APP CON 134.45 327.15	CTAF 122.9
-------------------------	---	----------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

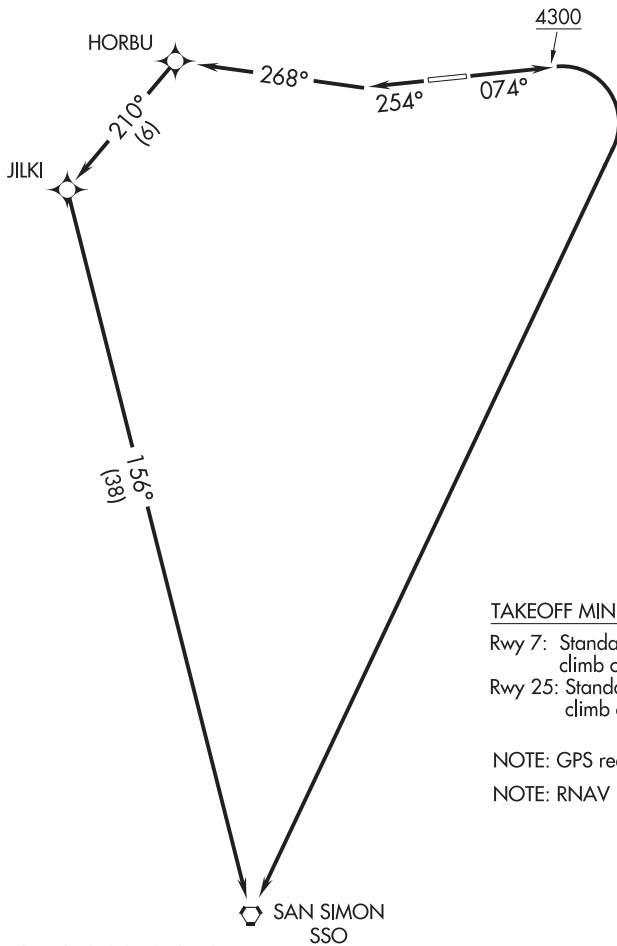
SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 3797	HOVBO		9000	YITUK	WOBUG
	7400	AMXUK	↑	✧	△
Procedure Turn NA	067°	3.07° TCH 40		tr 142°	
	6600	CUMAG 4.6 NM to JIXEB			
		082°			
		5300			
	← 6.1 NM	← 3.6 NM	← 4.6 NM	← 0.5 NM	
CATEGORY	A	B	C	D	
CIRCLING	5000-1¼ 1203 (1300-1¼)			NA	

SAN SIMON ONE DEPARTURE (OBSTACLE) (RNAV)

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NDB AZC 403	APP CRS 340°	Rwy Idg TDZE Apt Elev	N/A N/A 4871
-----------------------	------------------------	-----------------------------	---

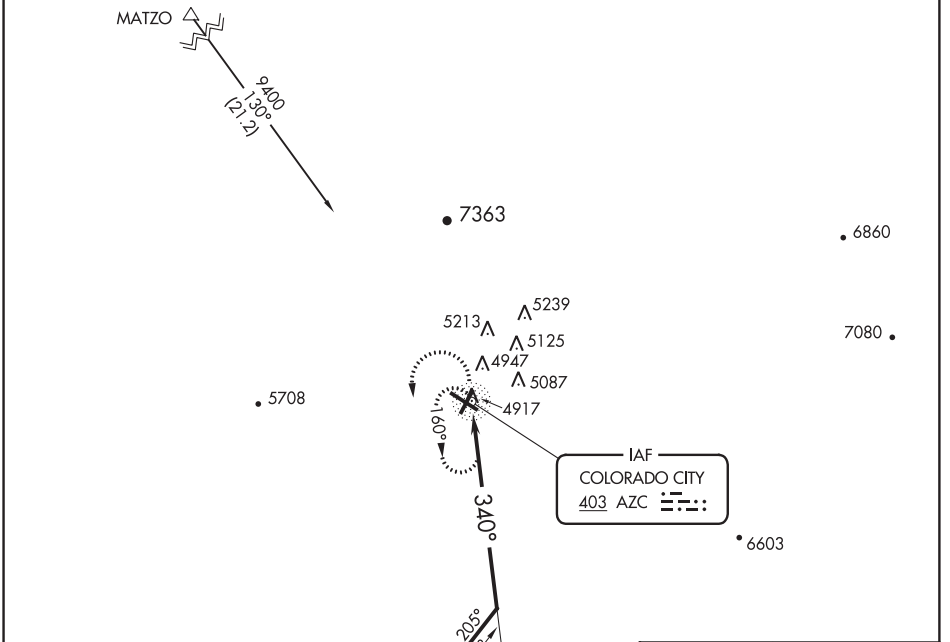
NDB or GPS-A

COLORADO CITY MUNI (AZC)

⚠ NA When local altimeter setting not received, procedure not authorized.

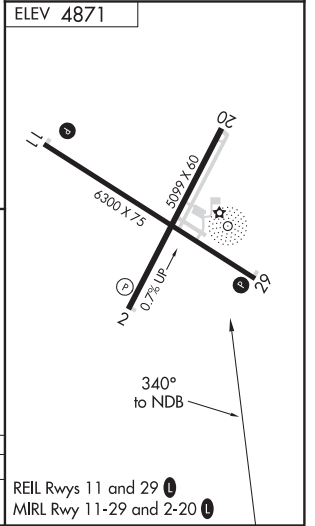
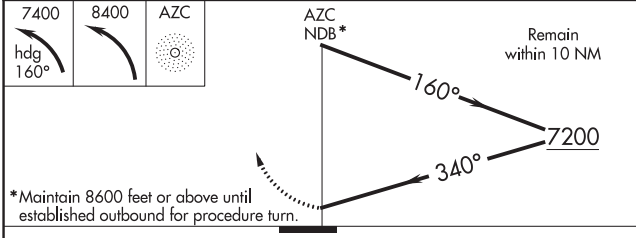
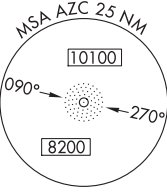
MISSED APPROACH: Climbing left turn to 7400 via heading 160°, then climbing left turn to 8400 direct AZC NDB and hold.

AWOS-3PT 118.375	LOS ANGELES CENTER 124.2 343.6	UNICOM 122.7 (CTAF)
----------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



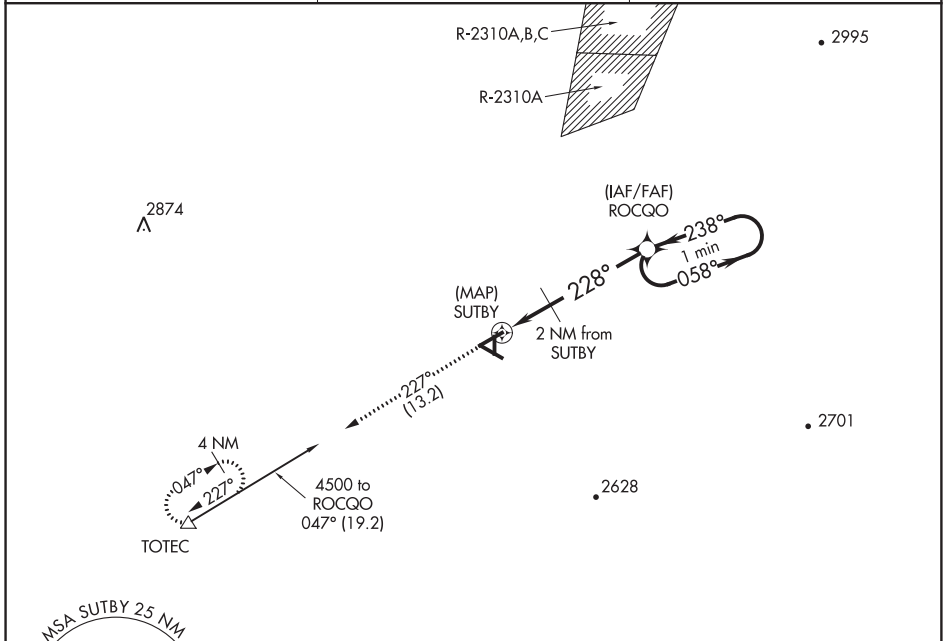
CATEGORY	A	B	C	D
CIRCLING	5700-1 829 (900-1)	5700-1¼ 829 (900-1¼)	5700-2½ 829 (900-2½)	5700-2¾ 829 (900-2¾)

APP CRS 228°	Rwy Idg 5528
	TDZE 1574
	Apt Elev 1574

GPS RWY 23
COOLIDGE MUNI (P08)

NA	Use Casa Grande Muni altimeter setting.	MISSED APPROACH: Climb to 3900 via 227° course to TOTEC and hold.
-----------	---	---

AWOS-3 119.350	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 123.075 (CTAF) 0
--------------------------	--	-----------------------------------

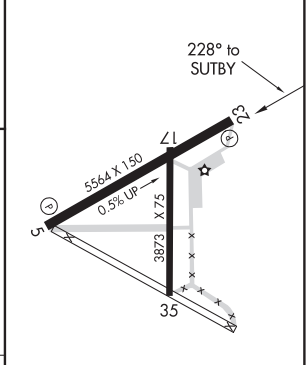
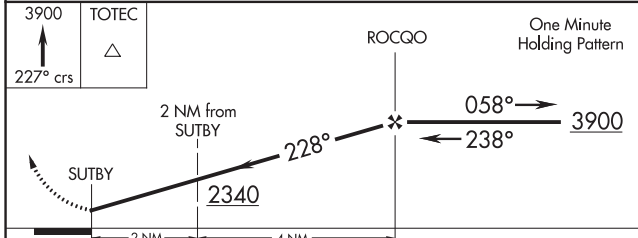


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 1574	TDZE 1574
-----------	-----------



CATEGORY	A	B	C	D
S-23	2060-1	486 (500-1)		NA
CIRCLING	2100-1	526 (600-1)		NA

MIRL Rwy 5-23 0

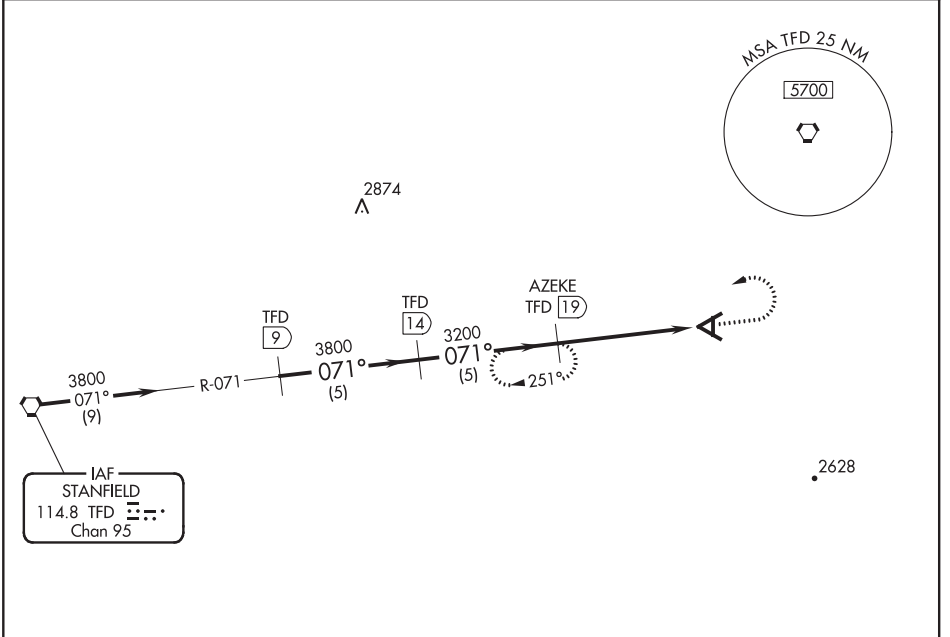
VORTAC TFD 114.8 Chan 95	APP CRS 071°	Rwy Idg TDZE 1564 Apt Elev 1574
--	------------------------	---

VOR/DME RWY 5

COOLIDGE MUNI (P08)

NA Use Casa Grande Muni altimeter setting.	MISSED APPROACH: Climb to 2300, then climbing left turn to 3500 via TFD VORTAC R-071 to AZEKE/19 DME and hold.
--	--

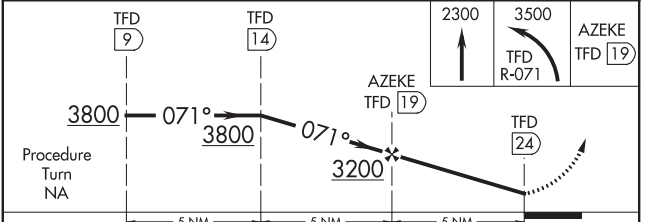
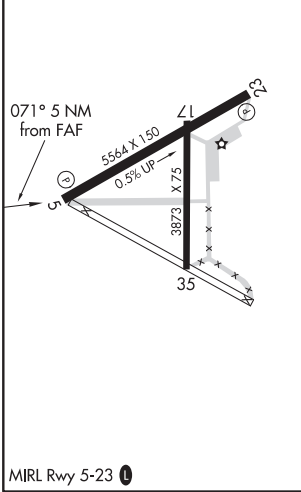
AWOS-3 119.350	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 123.075 (CTAF)
--------------------------	--	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1574	TDZE 1564
------------------	------------------



CATEGORY	A	B	C	D
S-5	2000-1 436 (500-1)	2000-1¼ 436 (500-1¼)	NA	
CIRCLING	2100-1 526 (600-1)	2100-1¼ 526 (600-1¼)	NA	

APP CRS	Rwy Idg	4252
325°	TDZE	3560
	Apt Elev	3560

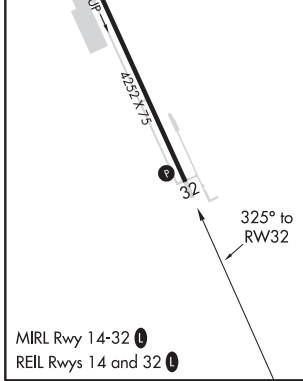
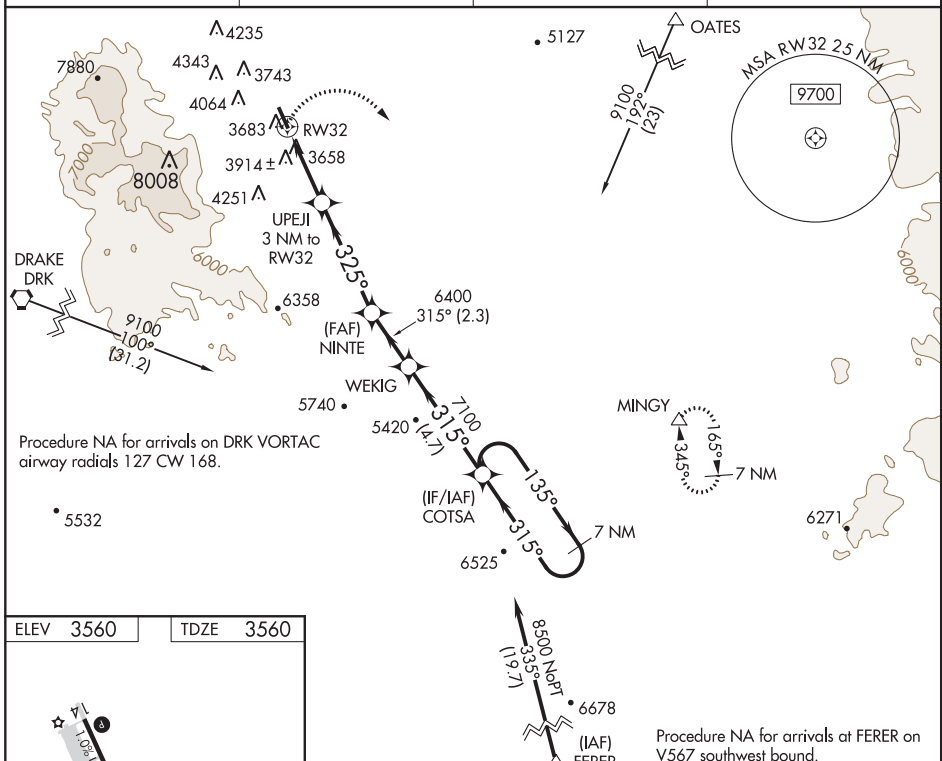
RNAV (GPS) RWY 32

COTTONWOOD (P52)

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-AV 122.7	PHOENIX APP CON 126.375 236.775	PRESCOTT RADIO 122.3	UNICOM 122.7 (CTAF)
--------------------------------	--	---------------------------------------	--------------------------------------



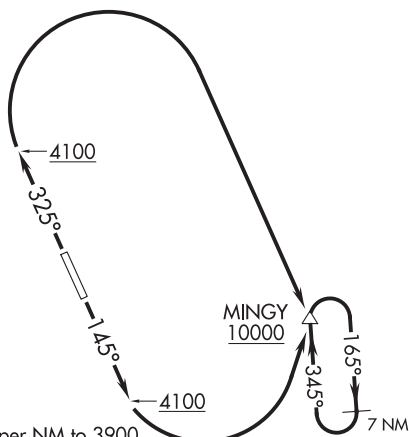
10000	MINGY	WEKIG	COTSA	7 NM Holding Pattern
8500	UPEJI 3 NM to RW32	NINTE	WEKIG	COTSA
8500	325° to RW32	315°	135°	8500
4740	4.3 NM	6400	7100	4.7 NM
3 NM	4.3 NM	2.3 NM	4.7 NM	
CATEGORY	A	B	C	D
LNAV MDA	4260-1	700 (700-1)	4260-2	700 (700-2)
C CIRCLING	4260-1	700 (700-1)	4260-2	700 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MINGY ONE DEPARTURE (OBSTACLE) (RNAV)

AWOS-AV
122.7
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.

TUCSON, ARIZONA

ILS or LOC Y RWY 12

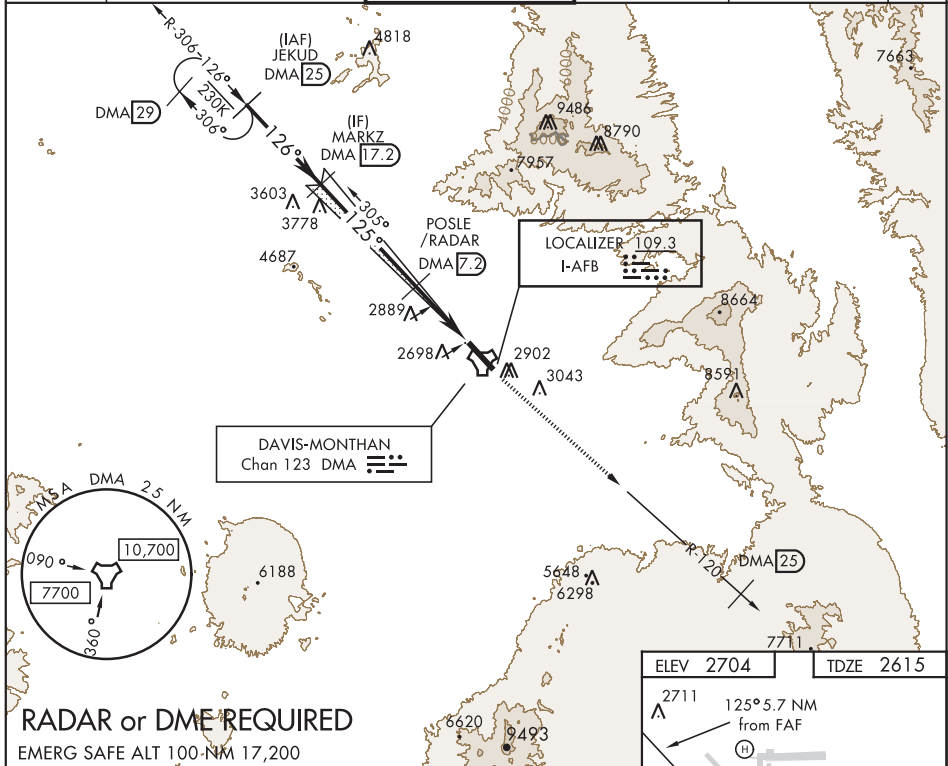
LOC I-APB 109.3	APCH CRS 125°	Rwy Idg 13,643 TDZE 2615 Arpt Elev 2704
---------------------------	-------------------------	--

AL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

* Circling not authorized S of Rwy 12-30.		MISSED APPROACH: Intercept DMA TACAN R-120 and climb to 7900, Expect RADAR vectors.			
---	--	---	--	--	--

ATIS★ 270.1	TUCSON APP CON 066°-274° 119.4 318.1 275°-065° 125.1 269.55	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
-----------------------	---	--	-------------------------------	--------------------------------	-----

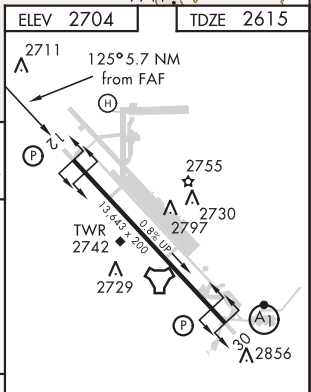
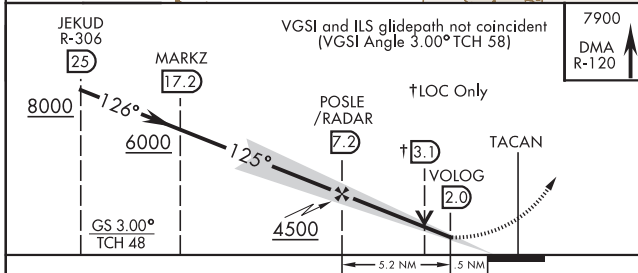


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RADAR or DME REQUIRED

EMERG SAFE ALT 100-NM 17,200



CATEGORY	A	B	C	D	E
S-ILS 12	2865/45 250 (200-7/8)				
S-LOC 12	3160/55	545 (500-1)	3160-1 5/8	545 (500-1 5/8)	
CIRCLING*	3220-1 516 (600-1)	3240-1 536 (600-1)	3320-1 3/4 616 (700-1 3/4)	3360-2 656 (700-2)	3440-2 1/2 736 (800-2 1/2)

REIL Rwy 12					
HIRL Rwy 12-30					
FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

TUCSON, ARIZONA

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

Orig 10NOV16

ILS or LOC Y RWY 12

TUCSON, ARIZONA

ILS or LOC Y RWY 30

LOC I-DMA 109.3	APCH CRS 305°	Rwy Idg 13,643 TDZE 2704 Arpt Elev 2704
---------------------------	-------------------------	--

AL-429 [USAF]

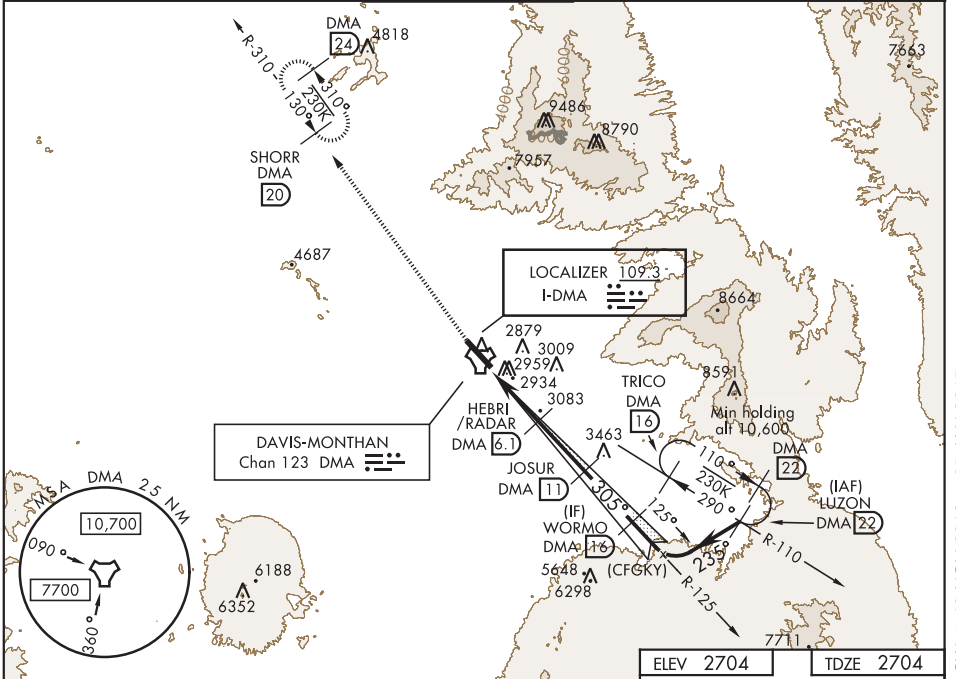
DAVIS-MONTHAN AFB (KDMA)

▼ * When ALS inop, increase CAT AB RVR to 55, CAT CDE vis to 1 3/4 miles.
** Circling not authorized S of Rwy 12-30.



MISSED APPROACH: Climb to 7200, intercept DMA TACAN R-310 to SHORR and hold.

ATIS* 270.1	TUCSON APP CON 066°-274° 119.4 318.1 275°-065° 125.1 269.55	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
-----------------------	---	--	-------------------------------	--------------------------------	-----

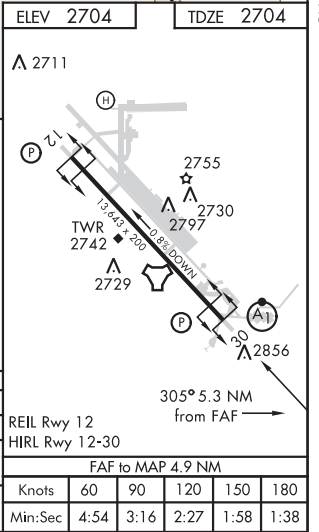
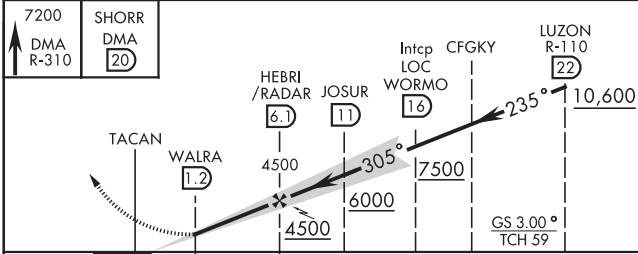


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RADAR or DME REQUIRED

EMERG SAFE ALT 100-NM 17,200



CATEGORY	A	B	C	D	E
S-ILS 30	2954/50 250 (300-1)				
S-LOC 30 *	3340/50	636 (700-1)	3340-1 3/8 636 (700-1 3/8)		
CIRCLING **	3340-1	636 (700-1)	3340-1 3/4 636 (700-1 3/4)	3360-2 656 (700-2)	3440-2 1/2 736 (800-2 1/2)

TUCSON, ARIZONA
Amdt 7 10NOV16

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

ILS or LOC Y RWY 30

TUCSON, ARIZONA

TACAN Y RWY 12

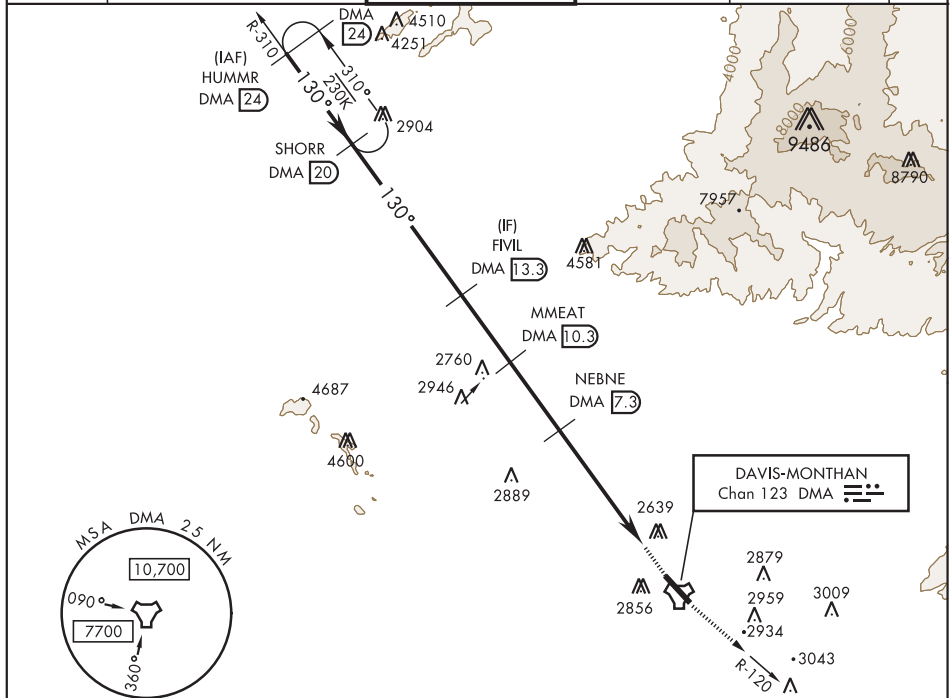
TACAN DMA Chan 123	APCH CRS 130°	Rwy Idg 13,643 TDZE 2615 Arprt Elev 2704
---------------------------	----------------------	---

AL-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

* Circling not authorized S of Rwy 12-30.		MISSED APPROACH: Intercept DMA TACAN R-120 and climb to 8000, expect RADAR vectors.		
---	--	---	--	--

ATIS ★ 270.1	TUCSON APP CON 090°-285° 125.1 269.55 286°-089° 119.4 318.1	DAVIS-MONTHAN TOWER 118.85 253.5	GND CON 121.8 275.8	CLNC DEL 121.8 275.8	PAR
---------------------	---	--	-------------------------------	--------------------------------	-----

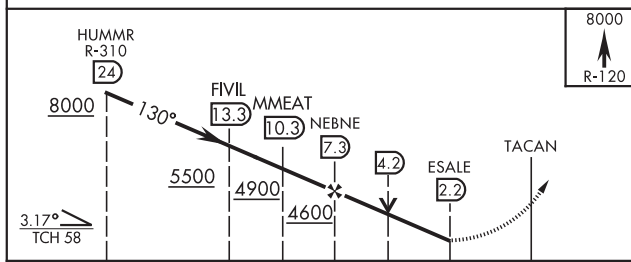


SW-4, 10 NOV 2016 to 05 JAN 2017

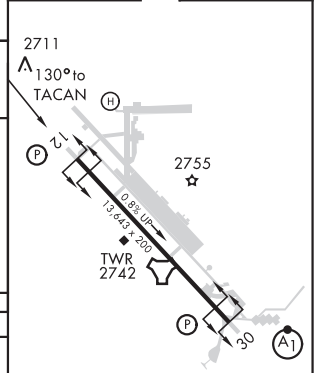
SW-4, 10 NOV 2016 to 05 JAN 2017

RADAR REQUIRED

EMERG SAFE ALT 100 NM 17,200



ELEV 2704	TDZE 2615
-----------	-----------



CATEGORY	A	B	C	D	E
S-12	3500/60 885 (800-1¼)		3500-2½ 885 (800-2½)		
CIRCLING*	3500-1¼ 796 (800-1¼)		3500-2½ 796 (800-2½)		3500-2¾ 796 (800-2¾)

HIRL Rwy 12-30
REIL Rwy 12

TUCSON, ARIZONA
Amdt 6 10NOV16

32°10'N-110°53'W

DAVIS-MONTHAN AFB (KDMA)

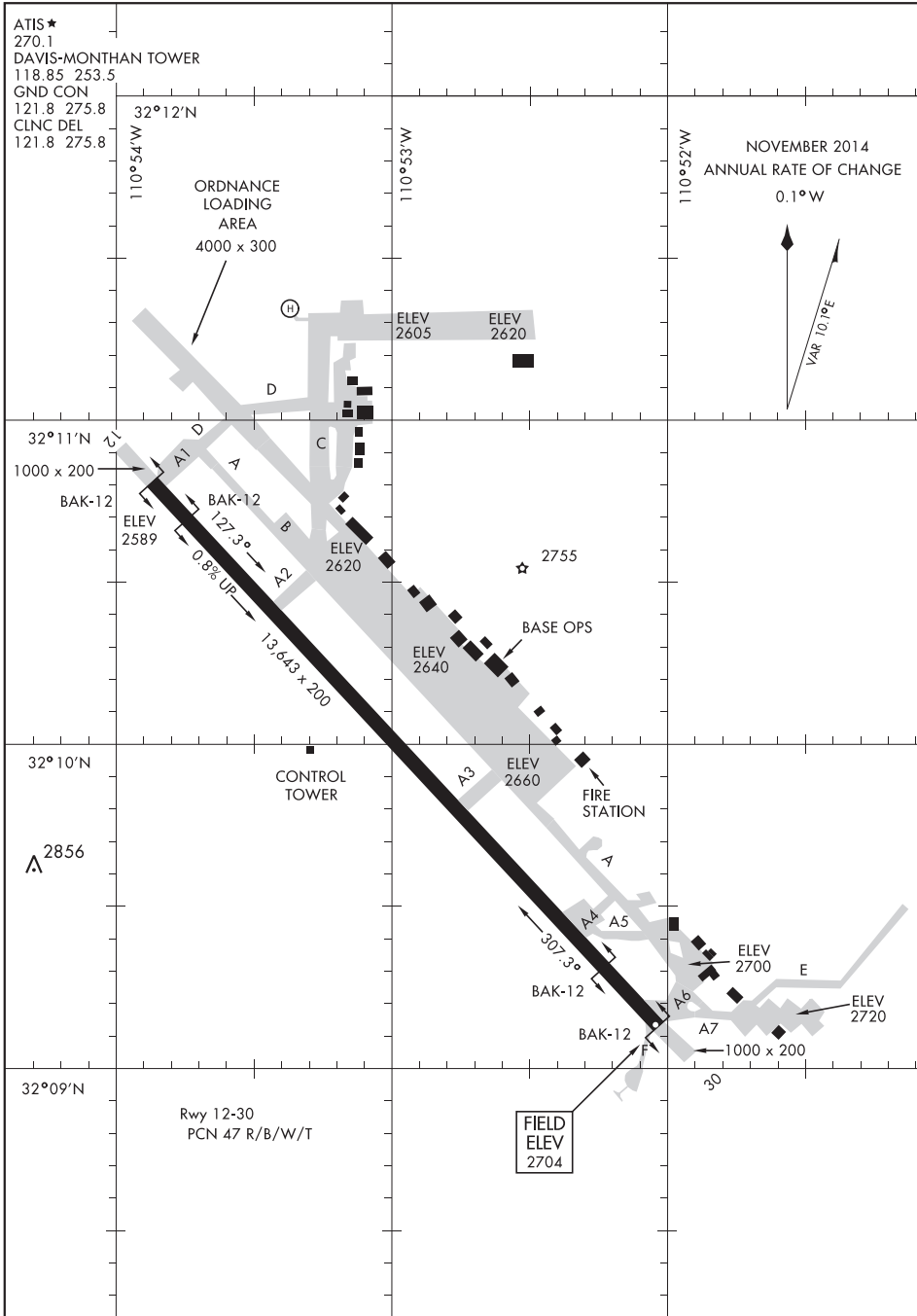
TACAN Y RWY 12

AIRPORT DIAGRAM

AFD-429 [USAF]

DAVIS-MONTHAN AFB (KDMA)

TUCSON, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

TUCSON, ARIZONA
DAVIS-MONTHAN AFB (KDMA)

Orig 16119

BBALL ONE DEPARTURE RWY 30 (BBALL1 • BBALL)

DAVIS-MONTHAN AFB (KDMA)

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

BBALL
 L-5, H-4
 FL180



During RADAR operations aircraft will receive RADAR vectors.

8573



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.

BBALL ONE DEPARTURE RWY 30 (BBALL1 • BBALL)

TUCSON, ARIZONA

DAVIS-MONTHAN AFB (KDMA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

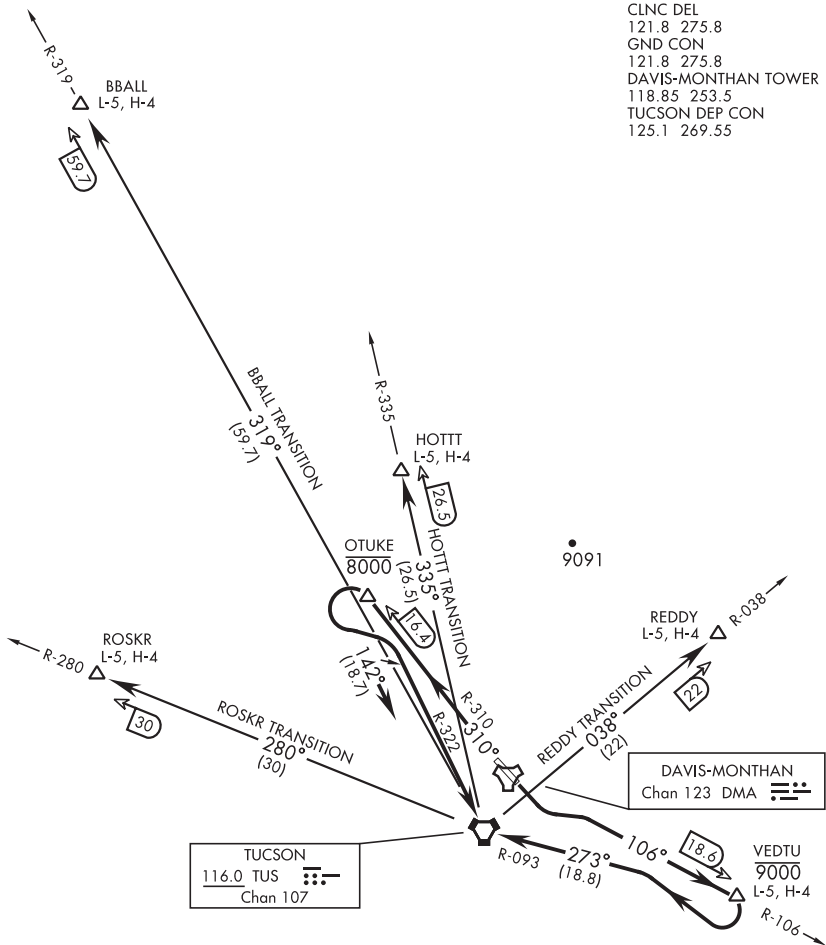
DAVIS MONTHAN ONE DEPARTURE RWY 12/30

DAVIS-MONTHAN AFB (KDMA)

TUCSON, ARIZONA

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



During RADAR operations aircraft will receive RADAR vectors to appropriate transition.

DME REQUIRED

DAVIS MONTHAN ONE DEPARTURE RWY 12/30

Orig 18AUG16

TUCSON, ARIZONA

DAVIS-MONTHAN AFB (KDMA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DAVIS MONTHAN ONE DEPARTURE RWY 12/30

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: From over TUS VORTAC via TUS R-319 cross BBALL (TUS 319/59.7) at or above FL209.

HOTTT TRANSITION: From over TUS VORTAC via TUS R-335 cross HOTTT (TUS 335/26.5) at or above 14,200.

ROSKR TRANSITION: From over TUS VORTAC via TUS R-280 cross ROSKR (TUS 280/30) at or above 15,200.

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: From over TUS VORTAC via TUS R-335 cross HOTTT (TUS 335/26.5) at or above 13,000.

REDDY TRANSITION: From over TUS VORTAC via TUS R-038 cross REDDY (TUS 038/22) at or above 12,300.

ROSKR TRANSITION: From over TUS VORTAC via TUS R-280 cross ROSKR (TUS 280/30) at or above 13,700.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DAVIS MONTHAN ONE DEPARTURE RWY 12/30

Orig 18AUG16

TUCSON, ARIZONA

DAVIS-MONTHAN AFB (KDMA)

Orig 16119

DAVIS-MONTHAN AFB (KDMA)

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

DAVIS-MONTHAN
 Chan 123 DMA 

8573



MESCA 1
116°

R-116

 25.7

MESCA
L-5, H-4
7700

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.

MESCA ONE DEPARTURE RWY 12 (MESCA1 • MESCA)

TUCSON, ARIZONA

DAVIS-MONTHAN AFB (KDMA)

WAAS CH 45724 W17A	APP CRS 166°	Rwy Idg TDZE Apt Elev	5502 4759 4759
--	------------------------	-----------------------------	---

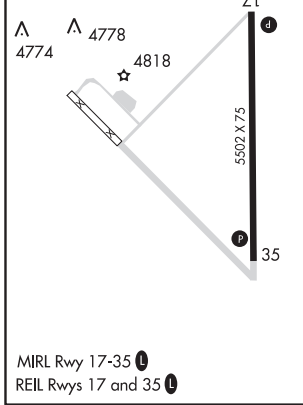
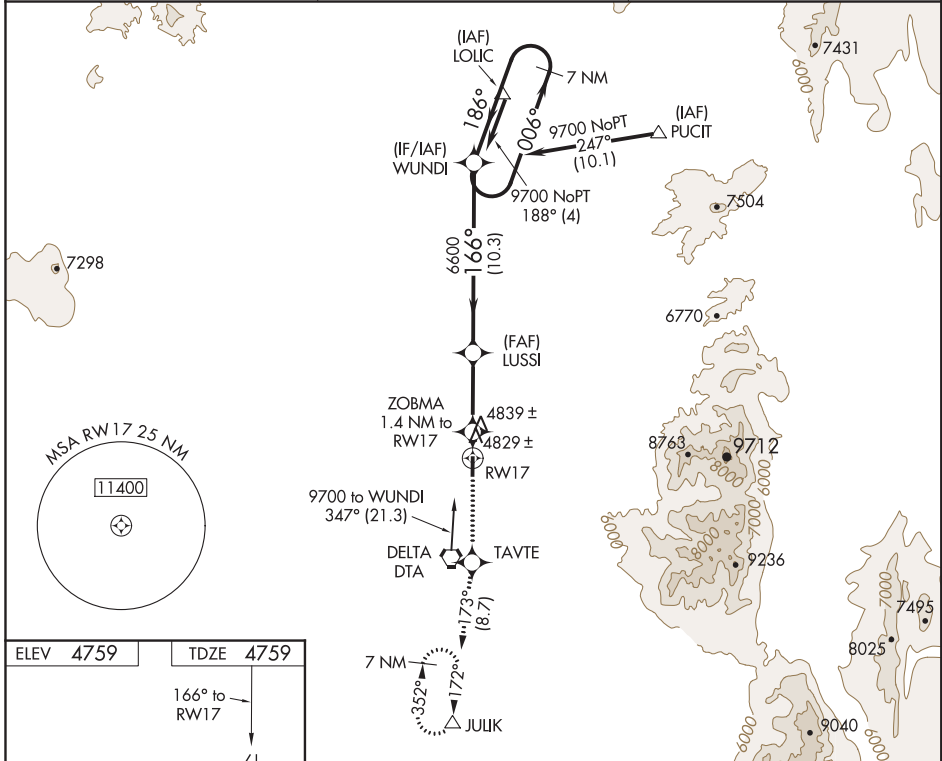
RNAV (GPS) RWY 17

DELTA MUNI (DTA)

NA Helicopter visibility reduction below 3/4 SM NA.
When local altimeter setting not received, procedure NA.
-27°C DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 12000 direct TAVTE and on track 173° to JULIK and hold, continue climb-in-hold to 12000.

AWOS-3 127.75	CEDAR CITY RADIO 122.55	UNICOM 122.8 (CTAF)
-------------------------	-----------------------------------	-------------------------------



ELEV 4759	TDZE 4759	12000 TAVTE		JULIK	VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 30).	7 NM Holding Pattern
		↑	✦	tr 173°	△	
CATEGORY	A	B	C	D		
LP MDA	5080-1 321 (400-1)					
LNVA MDA	5100-1 341 (400-1)					
CIRCLING	5140-1 381 (400-1)	5220-1 461 (500-1)	5220-1½ 461 (500-½)	5320-2 561 (600-2)		

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DELTA, UTAH

AL-113 (FAA)

16315

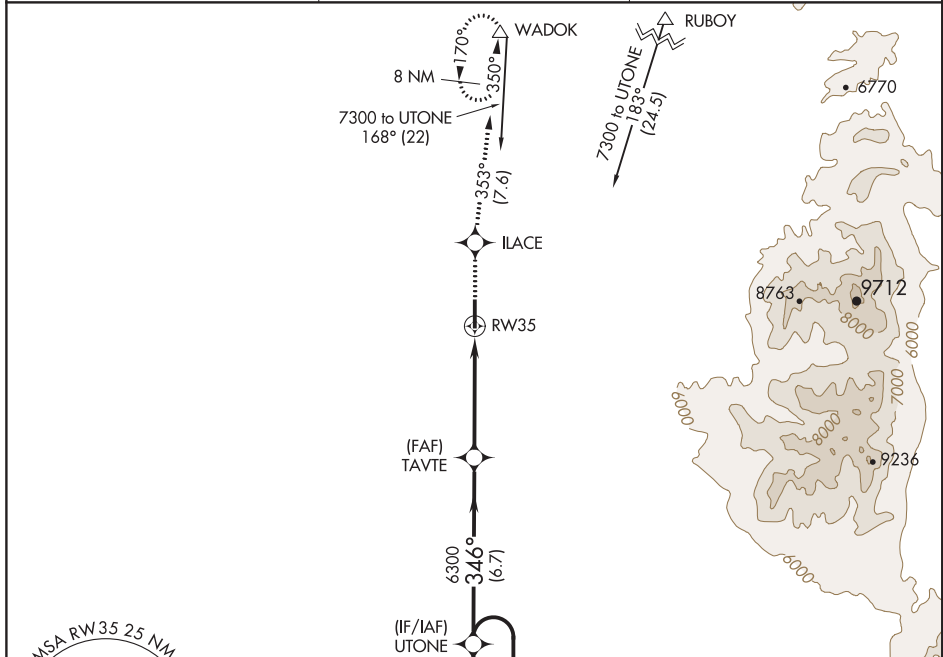
WAAS CH 61124 W35A	APP CRS 346°	Rwy Idg TDZE Apt Elev	5502 4758 4759
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 35

DELTA MUNI (DTA)

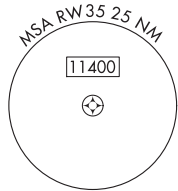
<p>▽ NA ⚠ -27°C</p>	<p>When local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA.</p>	<p>MISSED APPROACH: Climb to 11500 direct ILACE and on track 353° to WADOK and hold, continue climb-in-hold to 11500.</p>
---------------------------------------	---	---

AWOS-3 127.75	CEDAR CITY RADIO 122.55	UNICOM 122.8 (CTAF)
-------------------------	-----------------------------------	-------------------------------

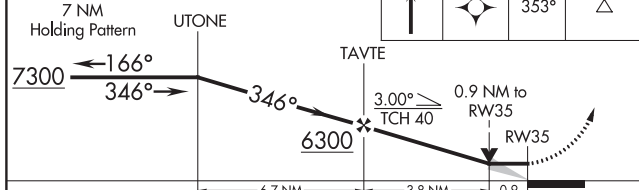


SW-4, 10 NOV 2016 to 05 JAN 2017

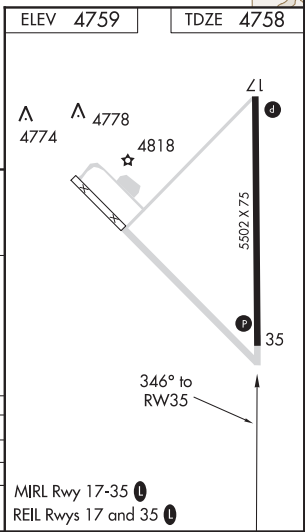
SW-4, 10 NOV 2016 to 05 JAN 2017



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 30).



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)



DELTA, UTAH
Amdt 1C 25JUN15

39°23'N-112°30'W

DELTA MUNI (DTA) RNAV (GPS) RWY 35

DELTA, UTAH

AL-113 (FAA)

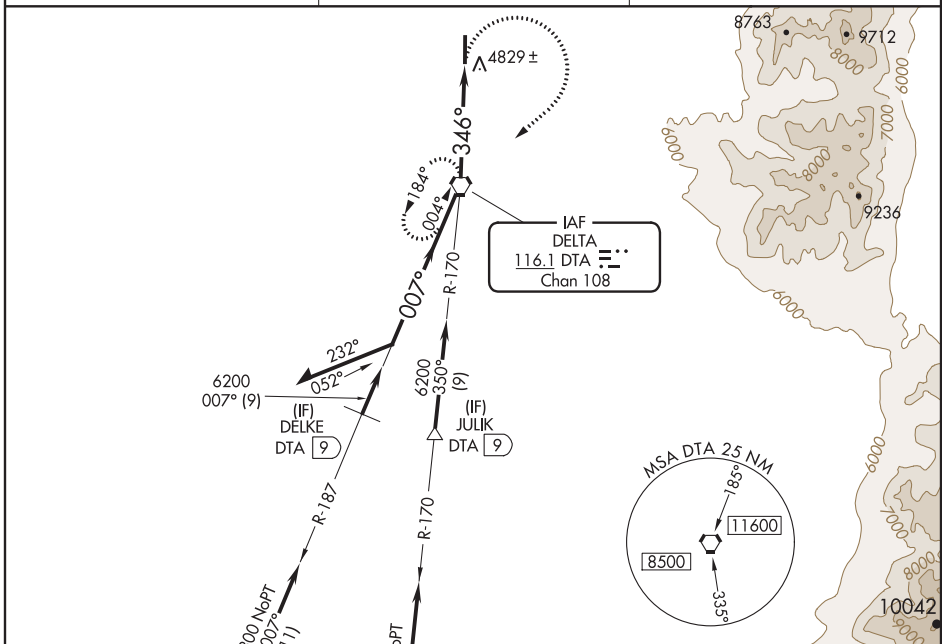
16315

VORTAC DTA 116.1 Chan 108	APP CRS 346°	Rwy Idg TDZE Apt Elev 5502 4758 4759
---	------------------------	--

VOR RWY 35

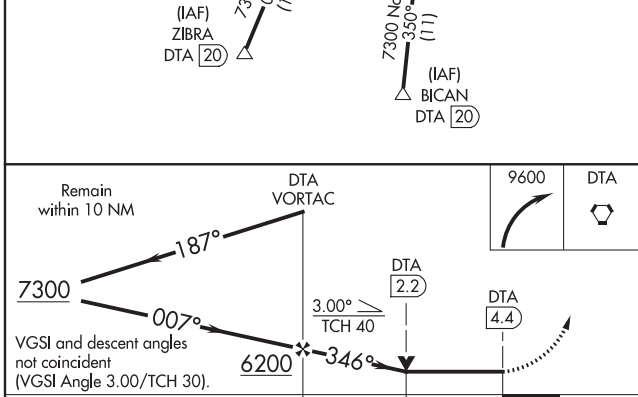
DELTA MUNI (DTA)

<p>⚠ NA</p> <p>❄ -27°C</p>	<p>If local altimeter setting not received, procedure, NA.</p>	<p>MISSED APPROACH: Climbing right turn to 9600 direct DTA VORTAC and hold, continue climb-in-hold to 9600.</p>
<p>AWOS-3 127.75</p>	<p>CEDAR CITY RADIO 122.55</p>	<p>UNICOM 122.8 (CTAF)</p>



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 4759	TDZE 4758
-----------	-----------

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

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)

DELTA, UTAH
Amdt 3A 25JUN15

39°23'N-112°30'W

DELTA MUNI (DTA) VOR RWY 35

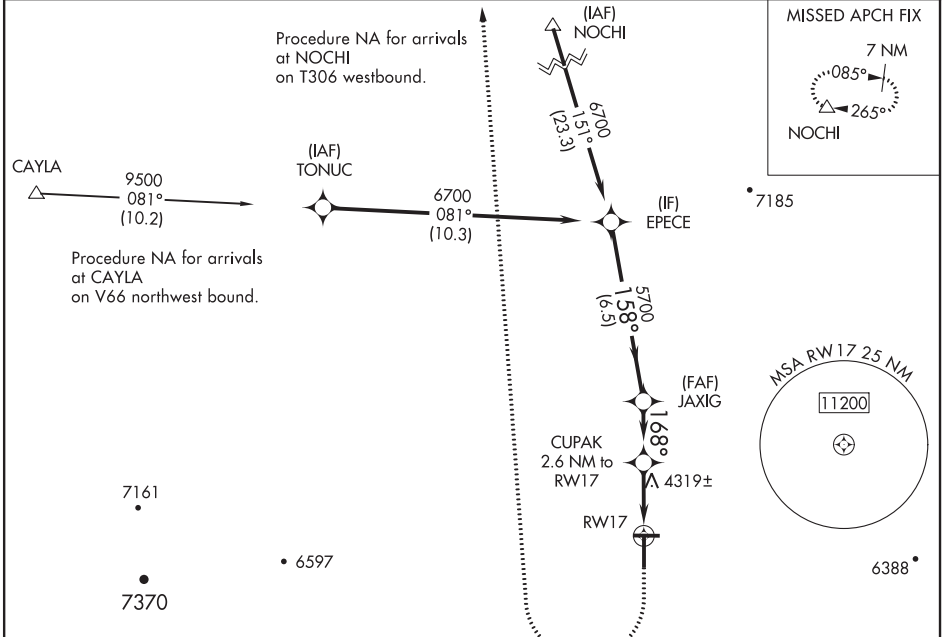
APP CRS	Rwy Idg	6430
168°	TDZE	4125
	Apt Elev	4150

RNAV (GPS) RWY 17

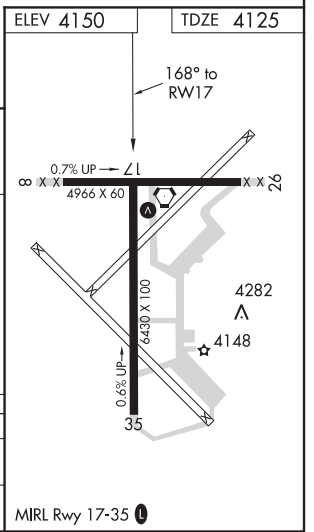
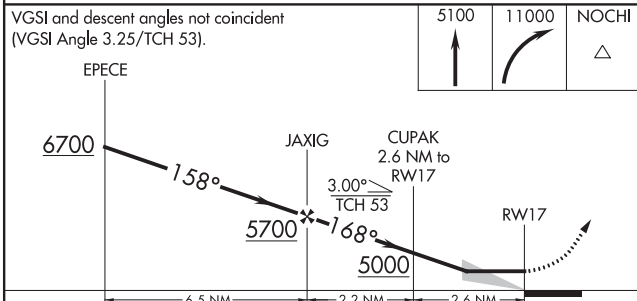
BISBEE-DOUGLAS INTL (DUG)

DME/DME RNP-0.3 NA. MISSED APPROACH: Climb to 5100 then climbing right turn to 11000 direct NOCHI and hold

ASOS 119.275	PRESCOTT RADIO 122.6	UNICOM 123.0 (CTAF)
------------------------	--------------------------------	-------------------------------



ELEV 4150	TDZE 4125
-----------	-----------



CATEGORY	A	B	C	D
RNAV MDA	4580-1	455 (500-1)	4580-1 $\frac{3}{8}$	455 (500-1 $\frac{3}{8}$)
CIRCLING	4620-1 470 (500-1)	4640-1 490 (500-1)	4760-1 $\frac{3}{4}$ 610 (700-1 $\frac{3}{4}$)	4800-2 650 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DOUGLAS BISBEE, ARIZONA

AL-486 (FAA)

16119

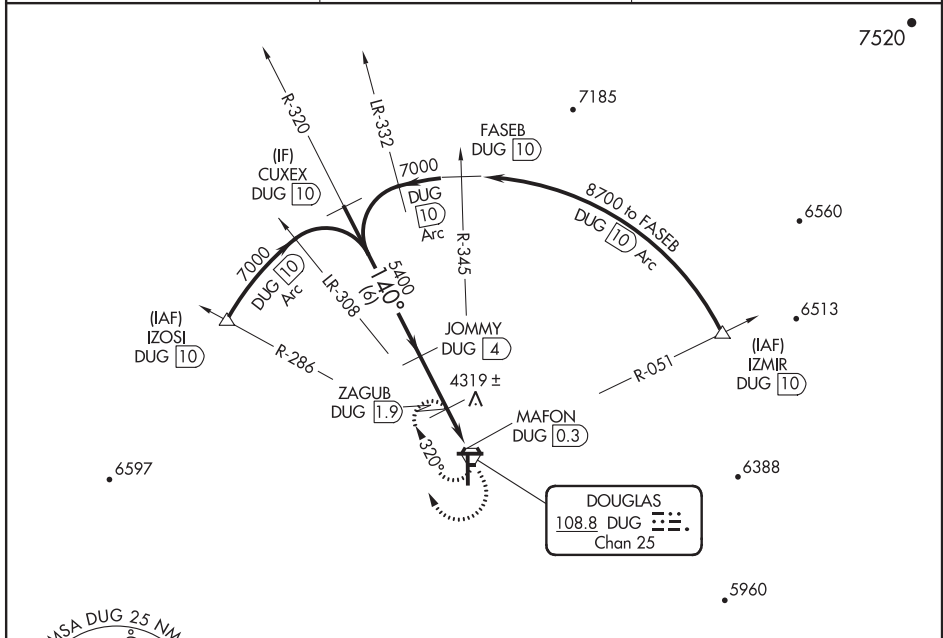
VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy Idg TDZE Apt Elev	6430 4125 4150
---------------------------------------	------------------------	-----------------------------	---

VOR/DME RWY 17

BISBEE-DOUGLAS INTL (DUG)

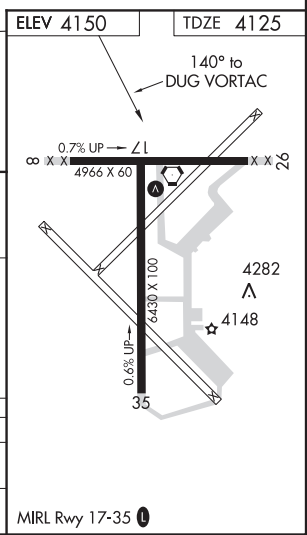
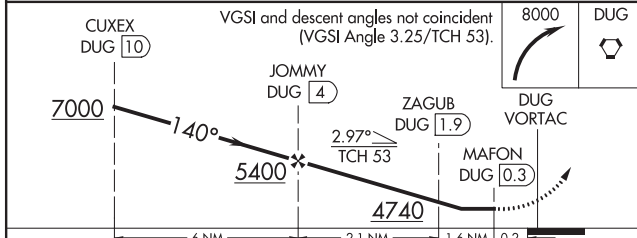
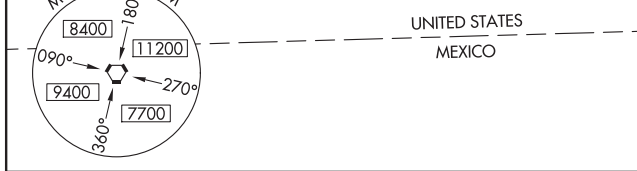
MISSED APPROACH: Climbing right turn to 8000 in DUG VORTAC holding pattern, continue climb-in-hold to 8000.

ASOS 119.275	PRESCOTT RADIO 122.6	UNICOM 123.0 (CTAF)
------------------------	--------------------------------	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-17	4580-1	455 (500-1)	4580-1 $\frac{3}{8}$	455 (500-1 $\frac{3}{8}$)
CIRCLING	4620-1 470 (500-1)	4640-1 490 (500-1)	4760-1 $\frac{3}{4}$ 610 (700-1 $\frac{3}{4}$)	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

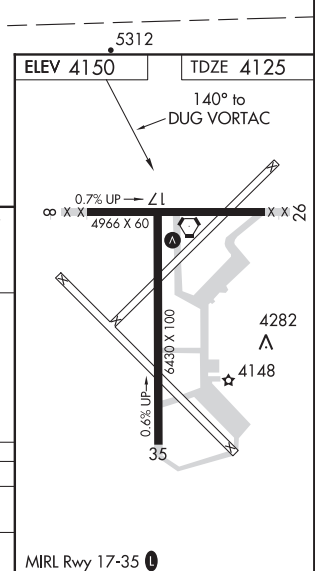
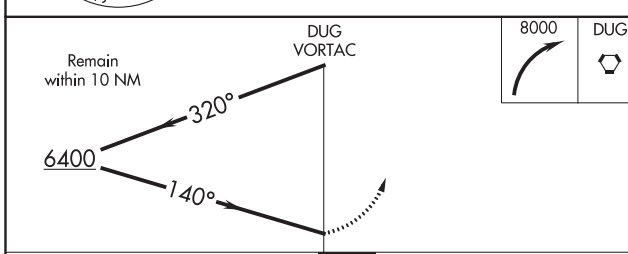
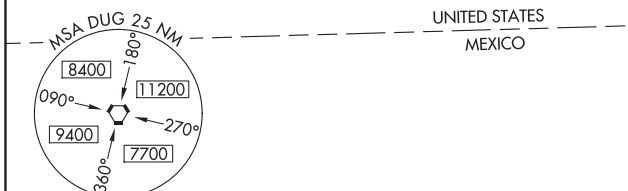
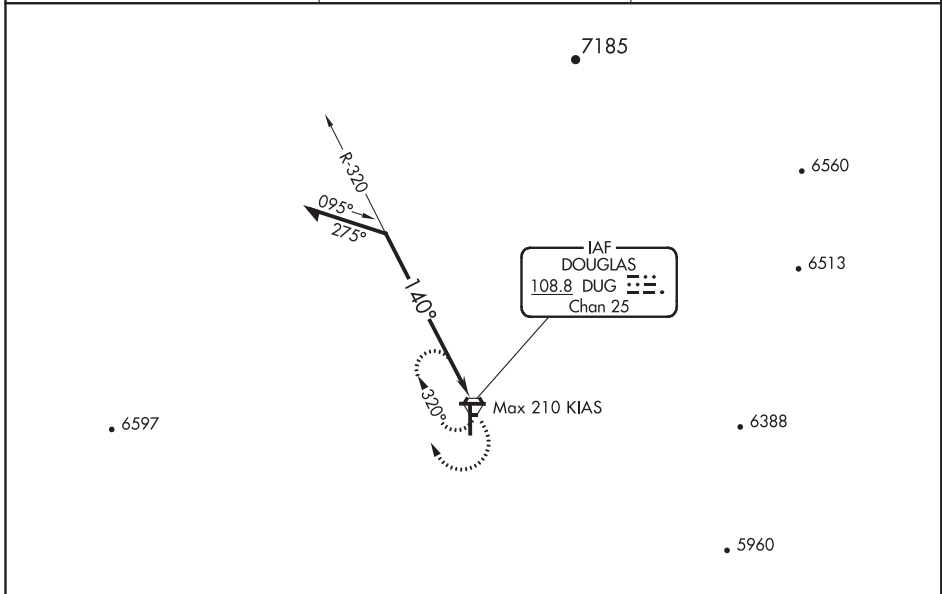
VORTAC DUG 108.8 Chan 25	APP CRS 140°	Rwy Idg TDZE Apt Elev	6430 4125 4150
---------------------------------------	------------------------	-----------------------------	---

VOR RWY 17

BISBEE-DOUGLAS INTL (DUG)

▽ MISSED APPROACH: Climbing right turn to 8000 in DUG VORTAC holding pattern.

ASOS 119.275	PRESCOTT RADIO 122.6	UNICOM 123.0 (CTAF)
------------------------	--------------------------------	-------------------------------



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)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DUCHESNE, UTAH

AL-6405 (FAA)

16147

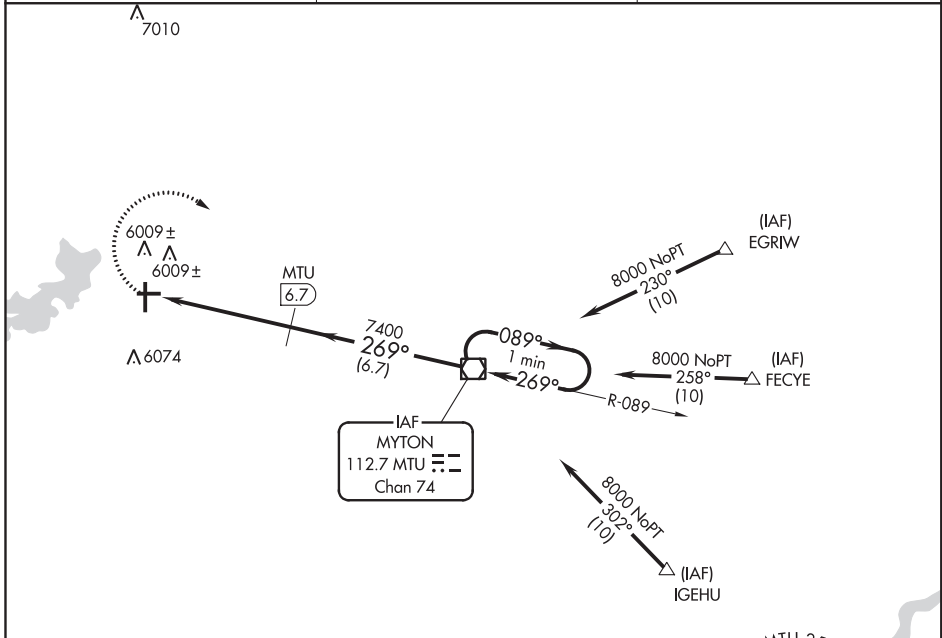
VOR/DME MTU 112.7 Chan 74	APP CRS 269°	Rwy Idg TDZE Apt Elev	N/A N/A 5826
---	------------------------	-----------------------------	---

VOR/DME-A
DUCHESNE MUNI (U69)

NA Use Vernal altimeter setting; when not received, procedure not authorized.

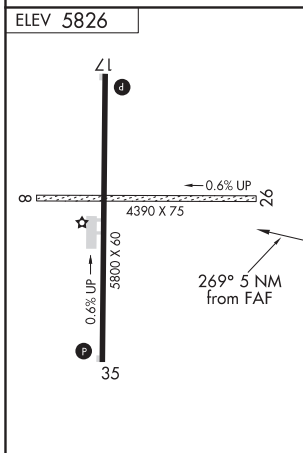
MISSED APPROACH: Climbing right turn to 8000 direct MTU VOR/DME and hold.

VERNAL ASOS 135.175	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 0
-------------------------------	-----------------------------------	---------------------------------

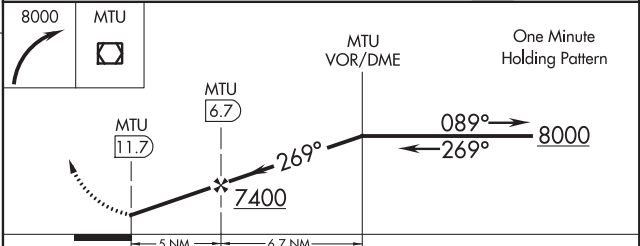
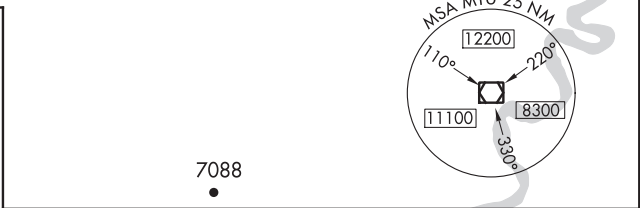


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



REIL Rws 17 and 35 **0**
MIRL Rwy 17-35 **0**



CATEGORY	A	B	C	D
CIRCLING	6660-1 834 (900-1)	6660-1¼ 834 (900-1¼)	6660-2½ 834 (900-2½)	NA

DUCHESNE, UTAH
Orig 17MAY01

40°12'N-110°23'W

DUCHESNE MUNI (U69)
VOR/DME-A

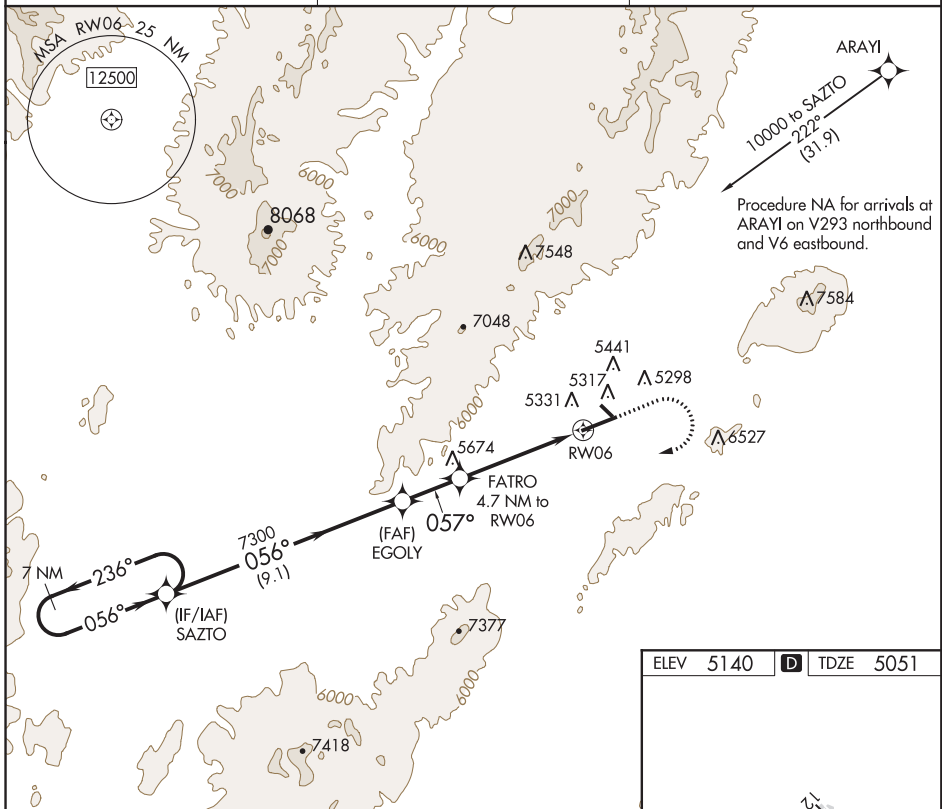
APP CRS	Rwy Idg	7217
057°	TDZE	5051
	Apt Elev	5140

RNAV (GPS) RWY 6

ELKO RGNL (EKO)

<p>NA</p> <p>DME/DME RNP-0.3 NA. Night landing: Rwy 12 NA. Helicopter visibility reduction below 3/4 SM NA.</p>	<p>MISSED APPROACH: Climb to 6800 then climbing right turn to 10000 direct SAZTO and hold, continue climb-in-hold to 10000.</p>
--	--

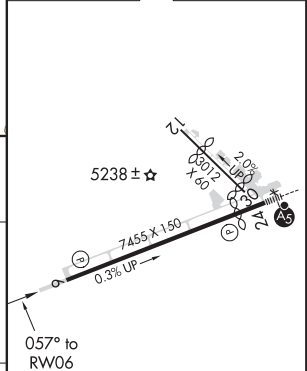
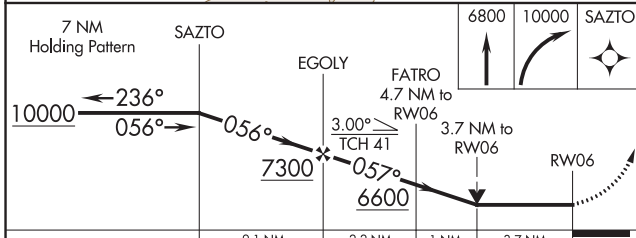
AWOS-3PT 119.275	SALT LAKE CENTER 132.25 338.35	UNICOM 123.0 (CTAF)
----------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5140	D TDZE 5051
-----------	--------------------



CATEGORY	A	B	C	D
LNVA MDA	6280-1	1229 (1200-1)	6280-3	1229 (1200-3)
C CIRCLING	6280-1 1/4 1140 (1200-1 1/4)	6280-1 1/2 1140 (1200-1 1/2)	6640-3 1500 (1500-3)	6960-3 1820 (1900-3)

MIRL Rwy 6-24

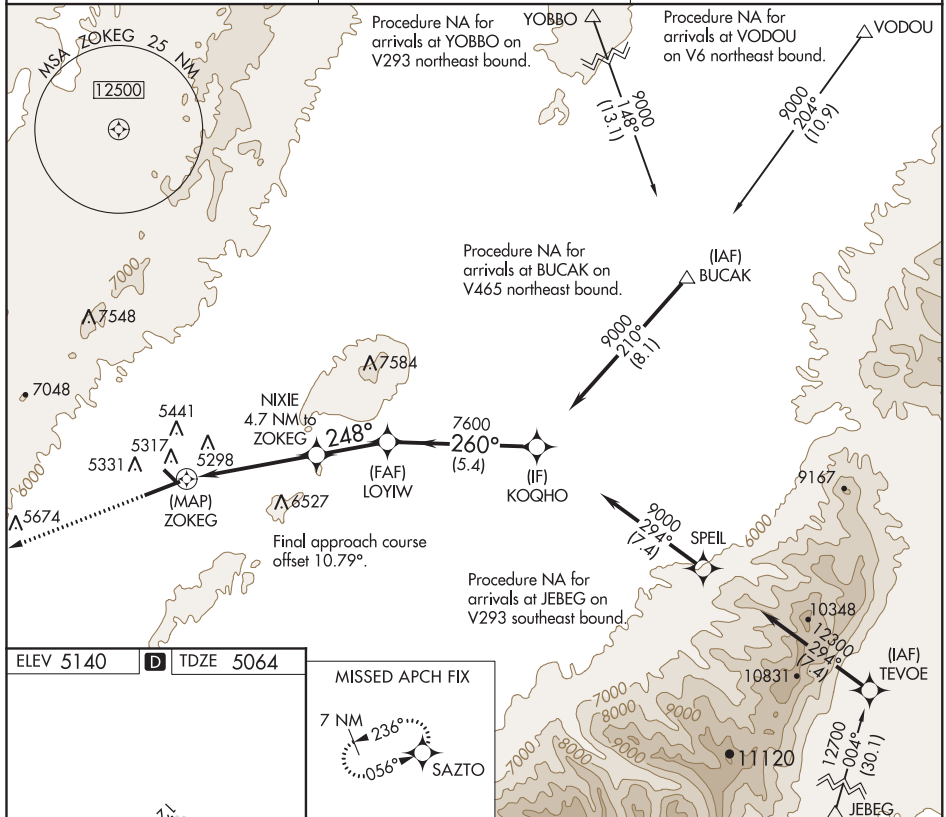
APP CRS 248°	Rwy Idg TDZE Apt Elev	6417 5064 5140
------------------------	-----------------------------	---

RNAV (GPS) RWY 24

ELKO RGNL (EKO)

<p>NA</p> <p>Inop table does not apply to Cats C/D. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 3/4 SM NA. Night landing: Rwy 12 NA.</p>	<p>MALS R</p>	<p>MISSED APPROACH: Climb to 10000 direct SAZTO and hold, continue climb-in-hold to 10000.</p>
---	---------------	--

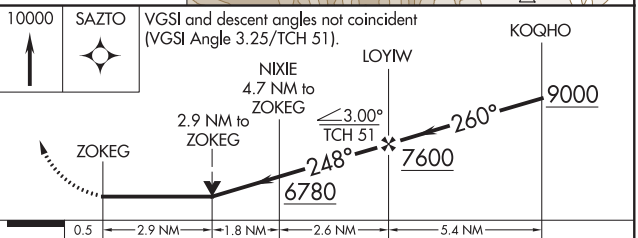
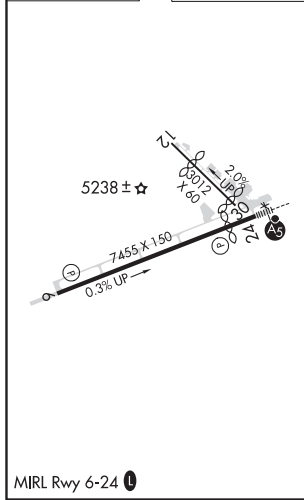
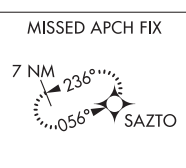
<p>AWOS-3PT 119.275</p>	<p>SALT LAKE CENTER 132.25 338.35</p>	<p>UNICOM 123.0 (CTAF)</p>
------------------------------------	--	---------------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5140	D	TDZE 5064
-----------	----------	-----------



CATEGORY	A	B	C	D
LNNAV MDA	6260-3/4 1196 (1200-3/4)	6260-1 1196 (1200-1)	6260-3 1196 (1200-3)	1196 (1200-3)
C CIRCLING	6260-1 1/4 1120 (1200-1 1/4)	6260-1 1/2 1120 (1200-1 1/2)	6640-3 1500 (1500-3)	6960-3 1820 (1900-3)

ELKO, NEVADA
Amdt 1 26MAY16

40°49'N-115°47'W

RNAV (GPS) RWY 24

ELKO RGNL (EKO)

VOR/DME BQU 114.5 Chan 92	APP CRS 324°	Rwy Idg TDZE Apt Elev N/A N/A 5140
---	------------------------	--

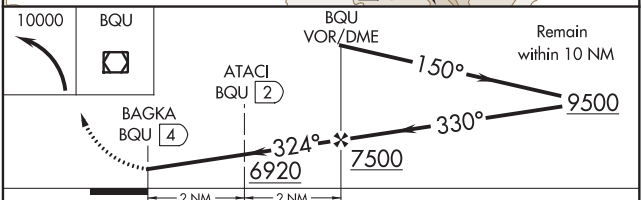
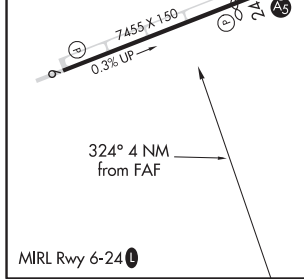
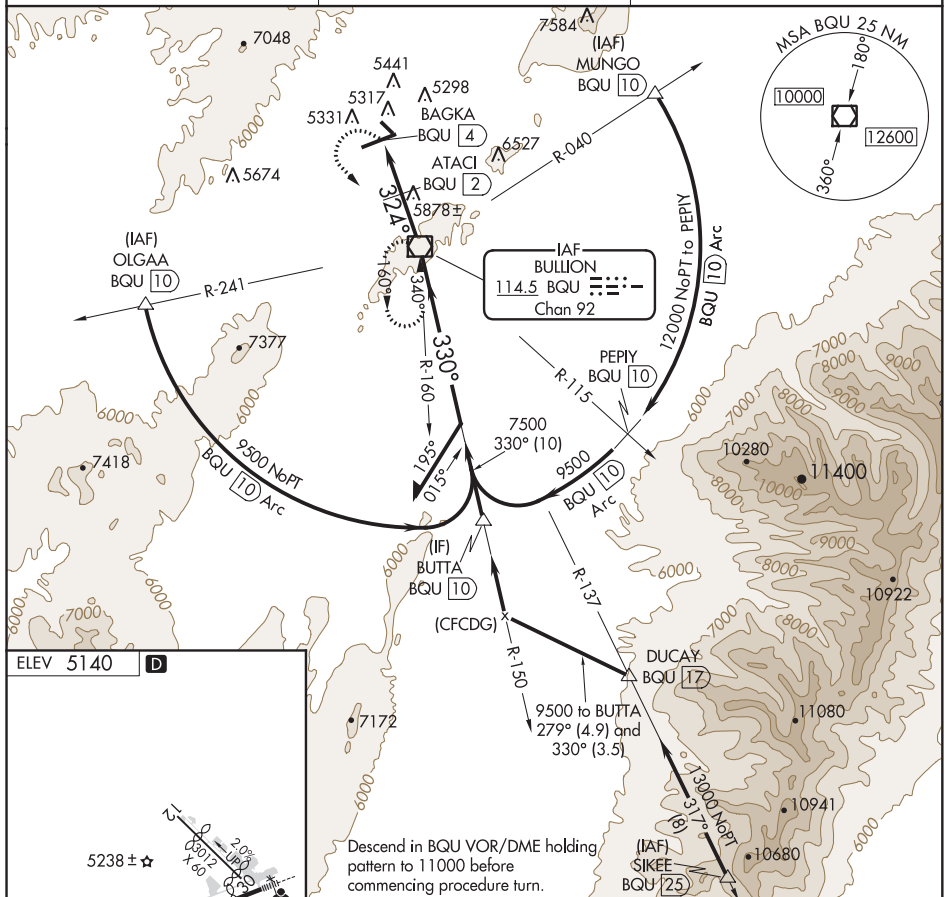
VOR/DME-B

ELKO RGNL (EKO)

Night Landing: Rwy 12 NA.
Circling NA for Cats C and D southeast of Rwy 6-24.

MISSED APPROACH: Climbing left turn to 10000 direct BQU VOR/DME and hold, continue climb-in-hold to 10000.

AWOS-3PT 119.275	SALT LAKE CENTER 132.25 338.35	UNICOM 123.0 (CTAF) 0
----------------------------	--	---------------------------------



CATEGORY	A	B	C	D
C CIRCLING	6400-1¼ 1260 (1300-1¼)	6400-1½ 1260 (1300-1½)	6400-3	1260 (1300-3)

ELKO, NEVADA
 Amdt 5 26MAY16

40°49'N-115°47'W

ELKO RGNL (EKO)

VOR/DME-B

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

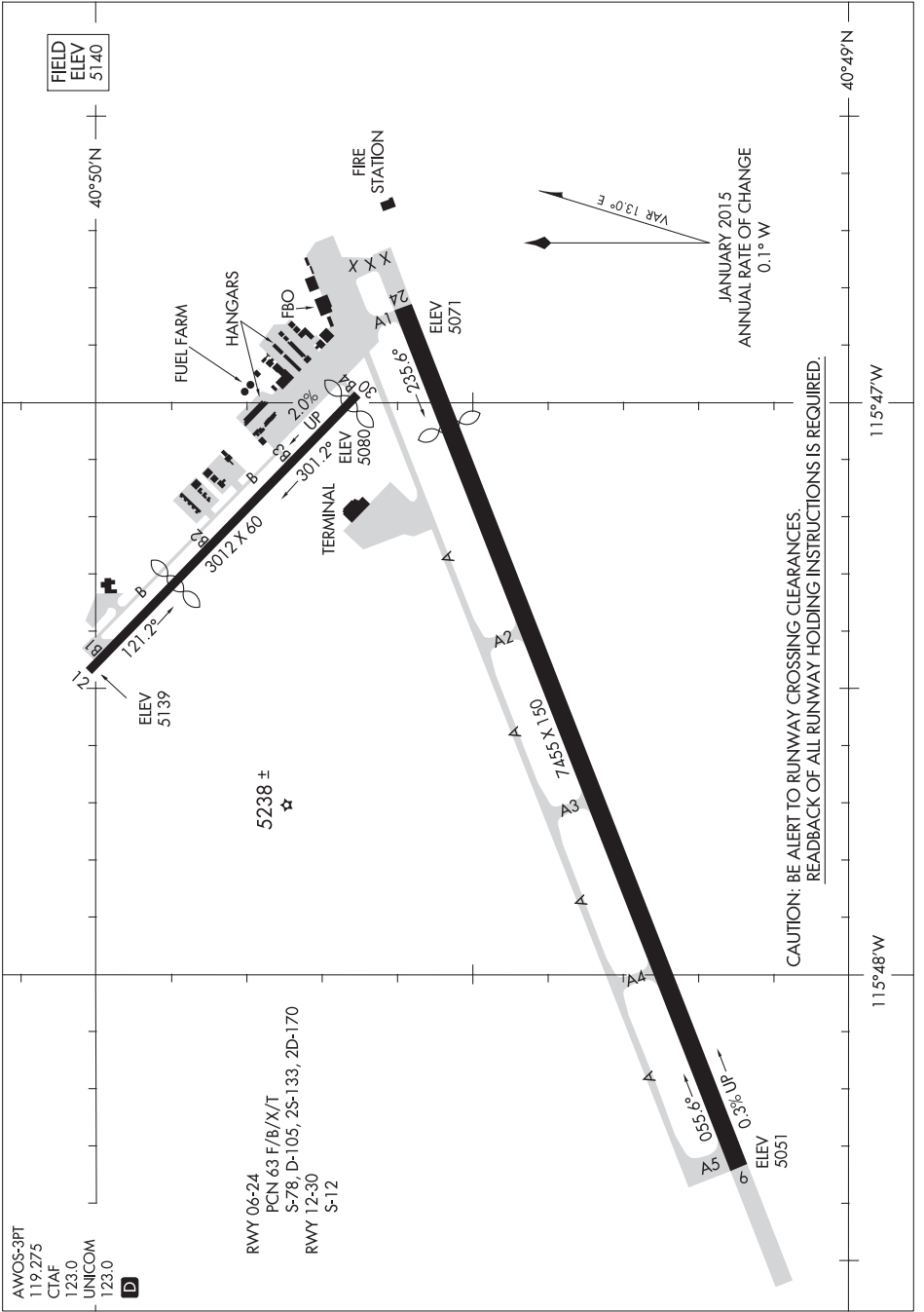
AIRPORT DIAGRAM

AL-129 (FAA)

ELKO RGNL (EKO)
ELKO, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



FIELD
ELEV
5140

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

VAR 13.0° E
JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

AWOS-3PT
119.275
CTAF
123.0
UNICOM
123.0
D

RWY 06-24
PCN 63 F/B/X/T
S-78, D-105, 2S-133, 2D-170
RWY 12-30
S-12

5238 ±

AIRPORT DIAGRAM

ELKO, NEVADA
ELKO RGNL (EKO)

ELY, NEVADA

AL-5163 (FAA)

16147

WAAS CH 42823 W18A	APP CRS 180°	Rwy Idg TDZE Apt Elev	6018 6242 6259
--	------------------------	-----------------------------	---

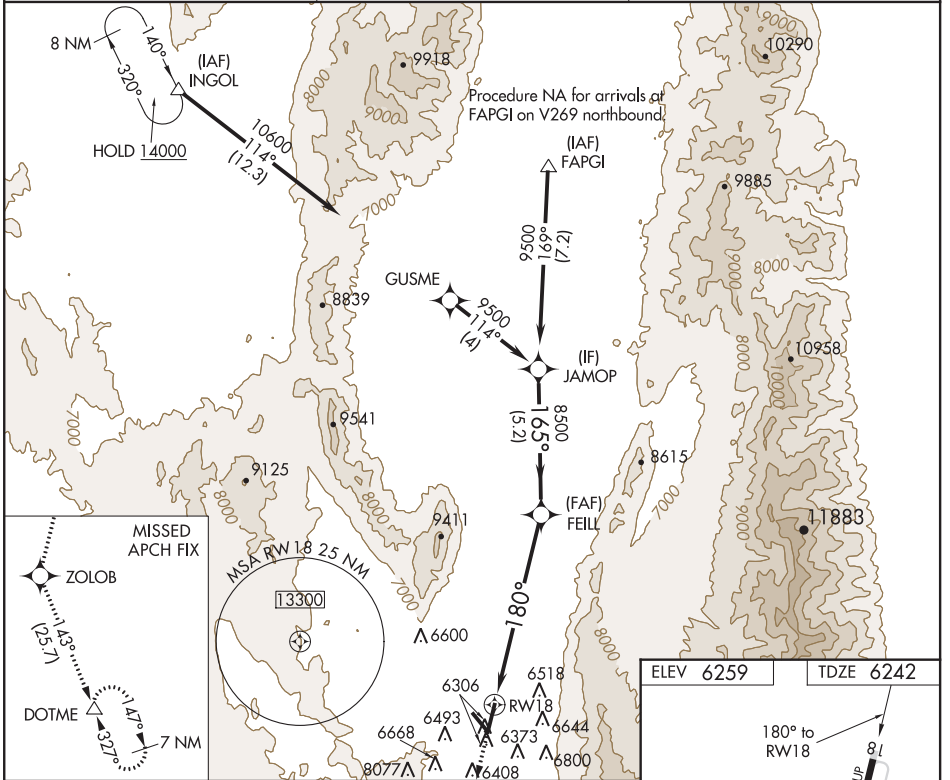
RNAV (GPS) RWY 18

ELY AIRPORT-YELLAND FIELD (ELY)

V Baro-VNAV NA.
A Circling NA southwest of Rws 12 and 36.
W -18°C/0°F DME/DME RNP-0.3 NA.

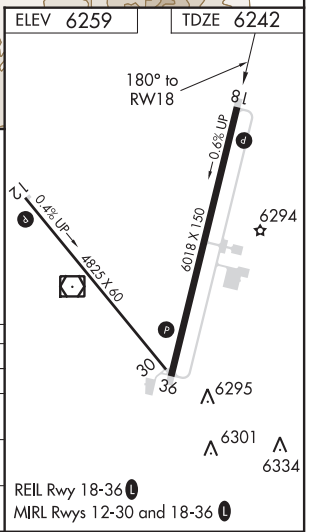
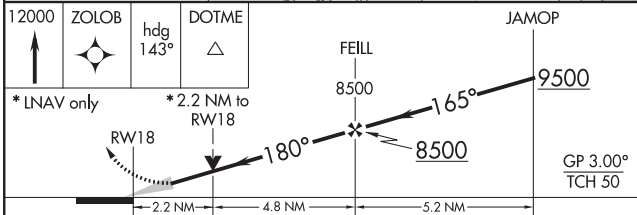
MISSED APPROACH: Climb to 12000 direct ZOLOB and on track 143° to DOTME and hold.

ASOS 120.625	SALT LAKE CENTER 133.45 317.625	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LPV DA		6652-1 $\frac{3}{8}$	410 (400-1 $\frac{1}{2}$)	
LNAV/VNAV DA		7205-4	963 (1000-4)	
LNAV MDA	6980-1 738 (800-1)	6980-1 $\frac{1}{4}$ 738 (800-1 $\frac{1}{4}$)	6980-2 738 (800-2)	
CIRCLING	6980-1 721 (800-1)	6980-1 $\frac{1}{4}$ 721 (800-1 $\frac{1}{4}$)	6980-2 721 (800-2)	7240-3 981 (1000-3)

ELY, NEVADA
Amdt 1A 29MAY14

39°18'N-114°51'W

ELY AIRPORT-YELLAND FIELD (ELY)
RNAV (GPS) RWY 18

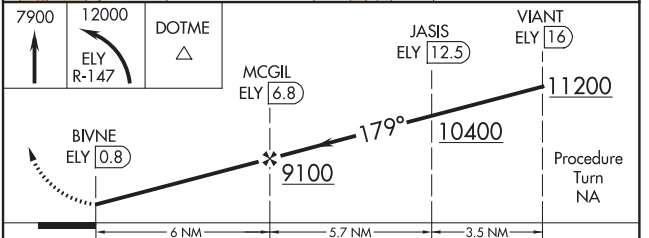
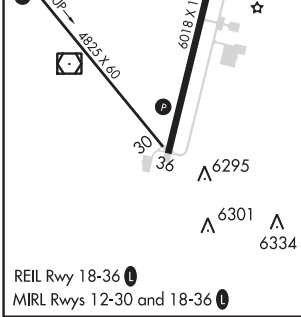
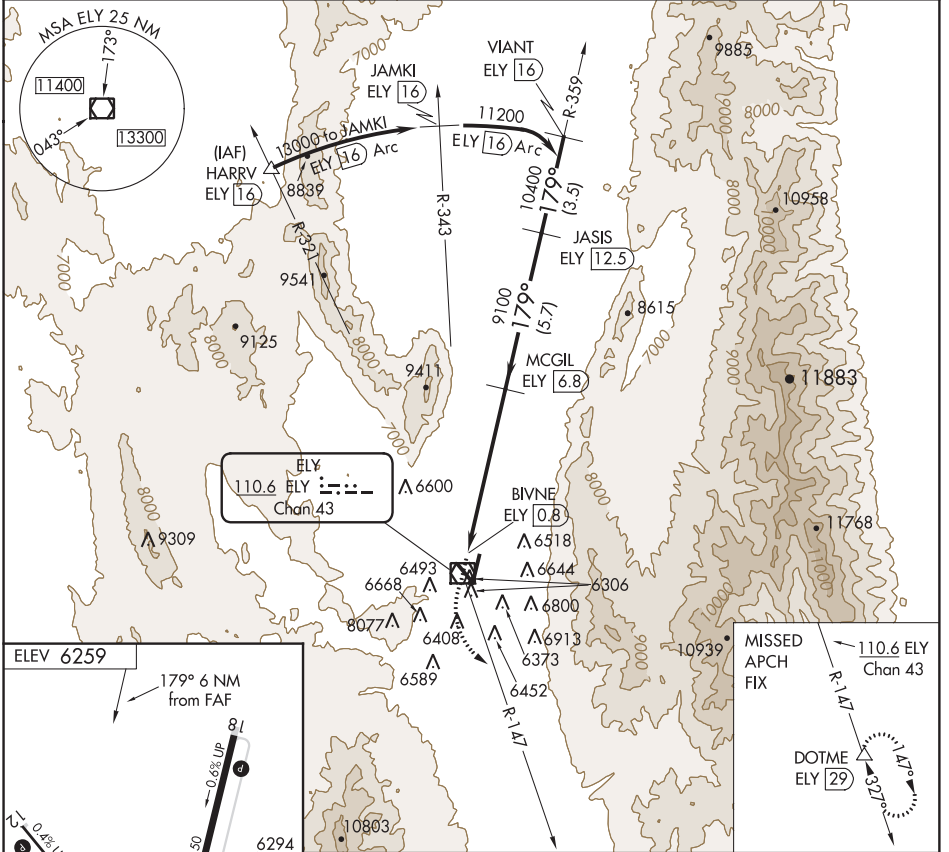
VOR/DME ELY 110.6 Chan 43	APP CRS 179°	Rwy Idg TDZE N/A N/A Apt Elev 6259
--	------------------------	---

VOR/DME-C

ELY AIRPORT-YELLAND FIELD (ELY)

NA Circling NA southwest of Rwy 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 120.625	SALT LAKE CENTER 133.45 317.625	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	7620-1¼ 1361 (1400-1¼)	7620-1½ 1361 (1400-1½)	7620-3	1361 (1400-3)

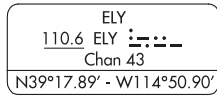
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 with minimum climb of 238' per NM to 10600, or 5100-3 for climb in visual conditions.

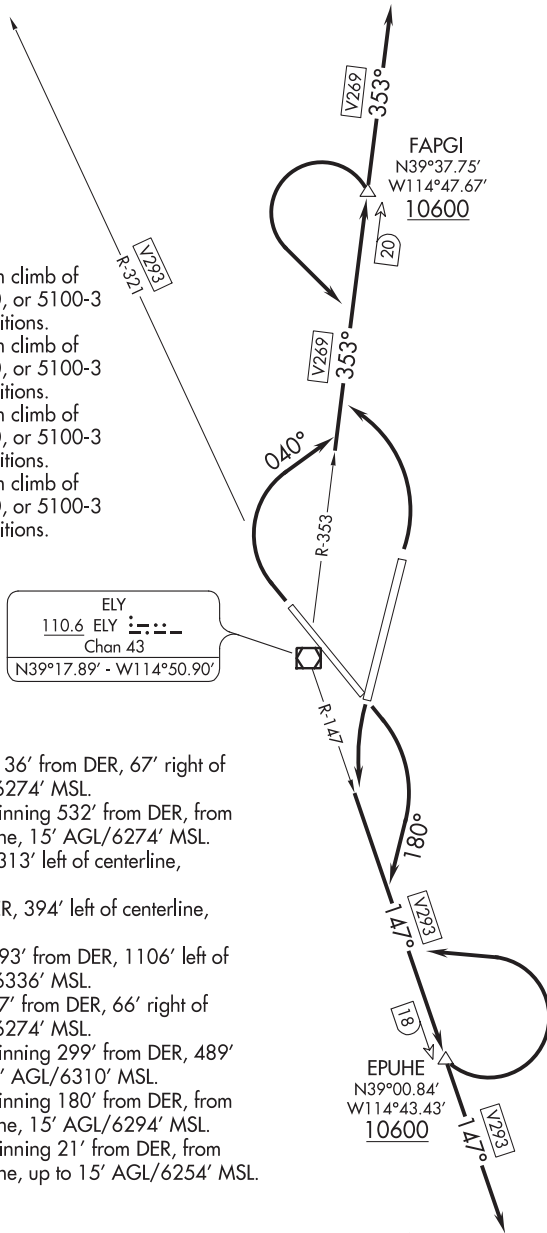


TAKEOFF OBSTACLE NOTES

- 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)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 42732 W18A	APP CRS 178°	Rwy Idg TDZE Apt Elev	7300 5944 5958
---------------------------------	------------------------	-----------------------------	---

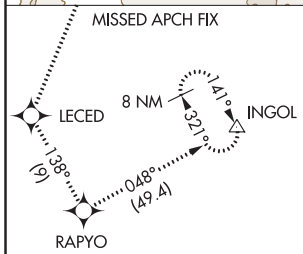
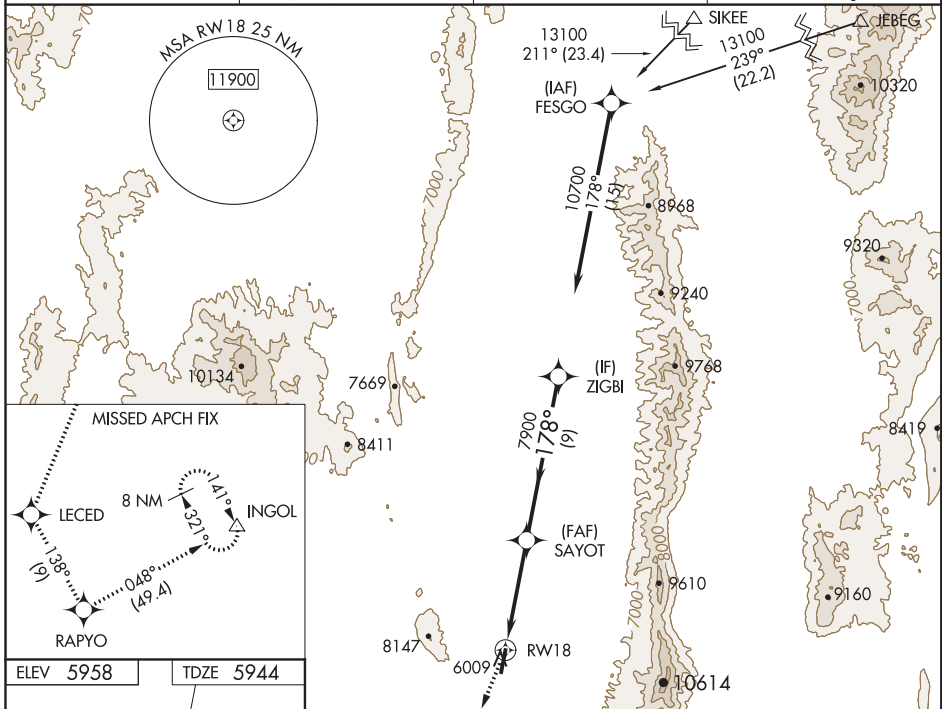
RNAV (GPS) RWY 18

EUREKA (05U)

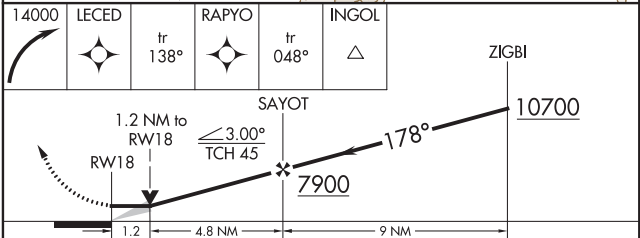
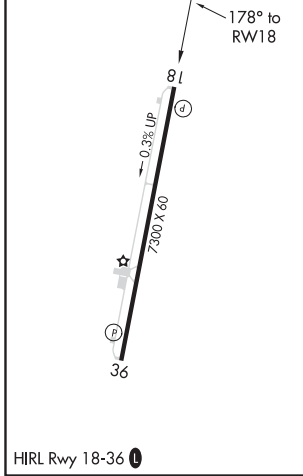
When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
*Missed approach requires minimum climb of 390 feet per NM to 9200.

MISSED APPROACH: Climbing right turn to 14000 direct LECED and on track 138° to RPYO and on track 048° to INGOL and hold.

AWOS-3 128.325	SALT LAKE CENTER 132.25 338.35	RENO RADIO 122.3	CTAF 122.90
--------------------------	--	----------------------------	-----------------------



ELEV 5958	TDZE 5944
-----------	-----------



CATEGORY	A	B	C	D
LP MDA*	6360-1	416 (500-1)	6360-1½	416 (500-1½)
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)
CIRCLING	7820-1¼ 1862 (1900-1¼)	7820-1½ 1862 (1900-1½)	7820-3	1862 (1900-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

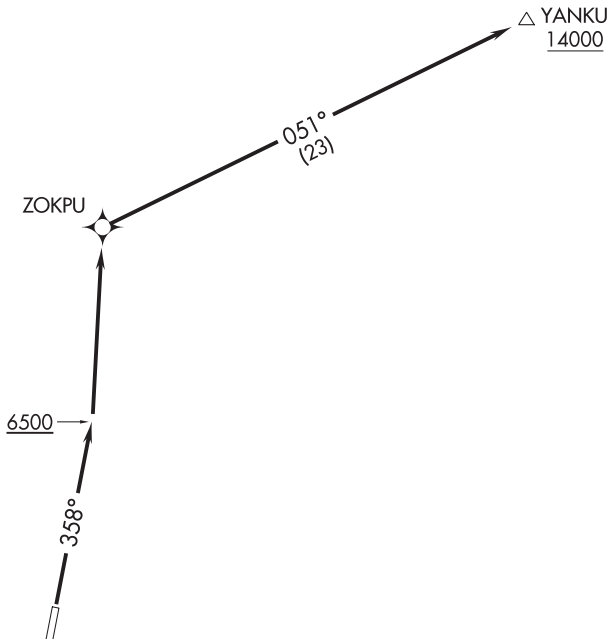
(MINES1.MINES) 16315

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.

MINES ONE DEPARTURE (OBSTACLE) (RNAV)

(MINES1.MINES) 22AUG13

EUREKA, NEVADA
EUREKA (Ø5U)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS)-C

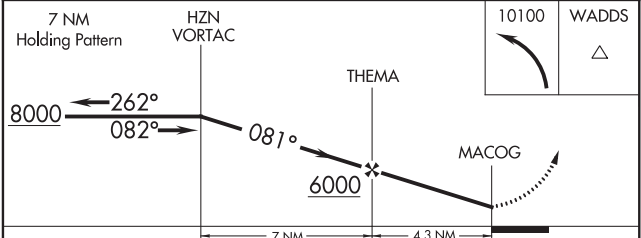
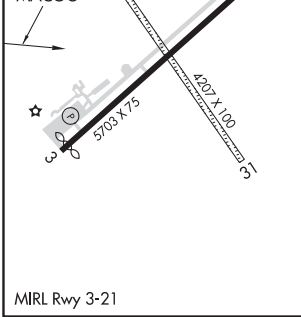
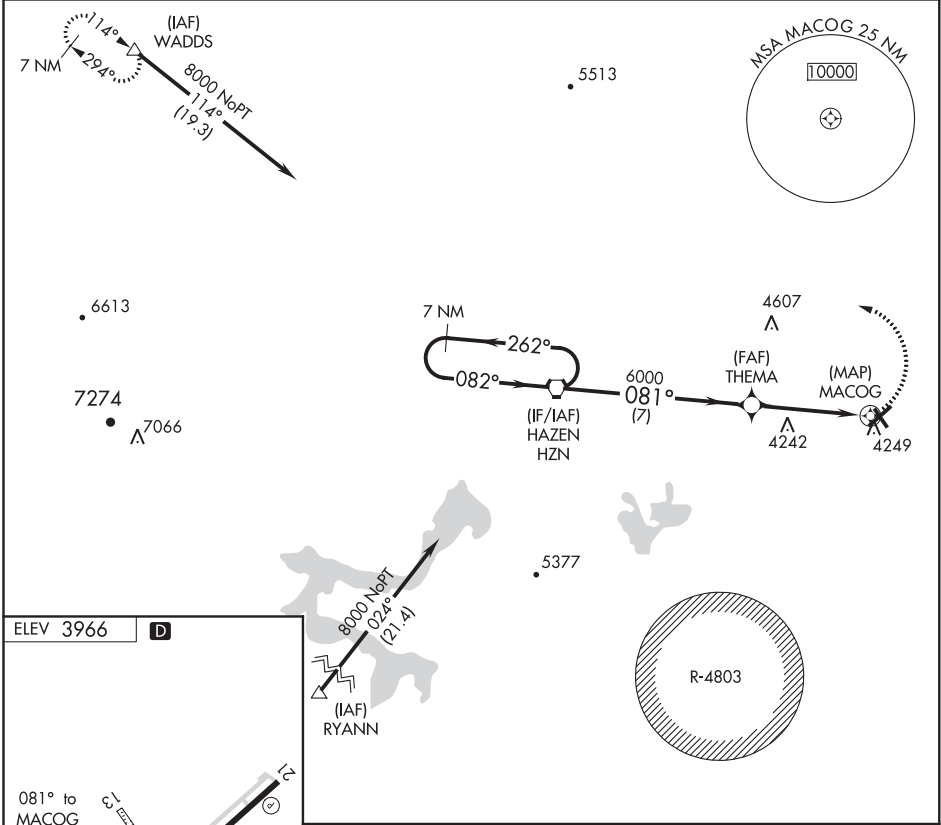
FALLON MUNI (F'LX)

APP CRS 081°	Rwy Idg TDZE Apt Elev	N/A N/A 3966
------------------------	-----------------------------	---

NA DME/DME RNP-0.3 NA.
Use Fallon NAS altimeter setting; when not received, procedure NA.
Contact Fallon Approach Control for approach clearance, if unable contact Oakland ARTCC.
Circling to Rwy 13-31 NA at night.

MISSED APPROACH: Climbing left turn to 10100 direct WADDS and hold, continue climb-in-hold to 10100.

AWOS-AV 118.25	NAVY FALLON ATIS* 370.925	NAVY FALLON APP CON* 120.85 360.2	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF)
--------------------------	-------------------------------------	---	--------------------------------------	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	4620-1	654 (700-1)	4620-1 ³ / ₄ 654 (700-1 ³ / ₄)	4620-2 654 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FALLON, NEVADA

AL-786 (FAA)

14037

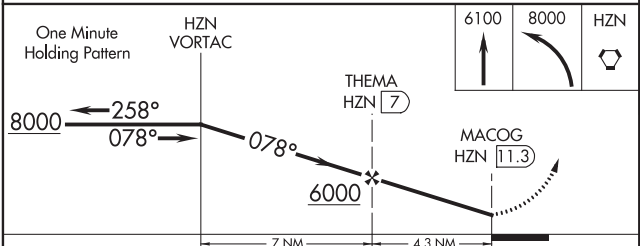
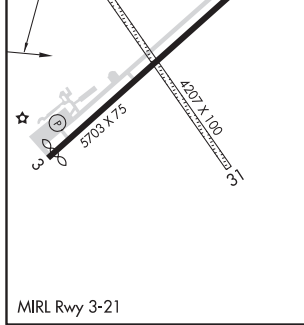
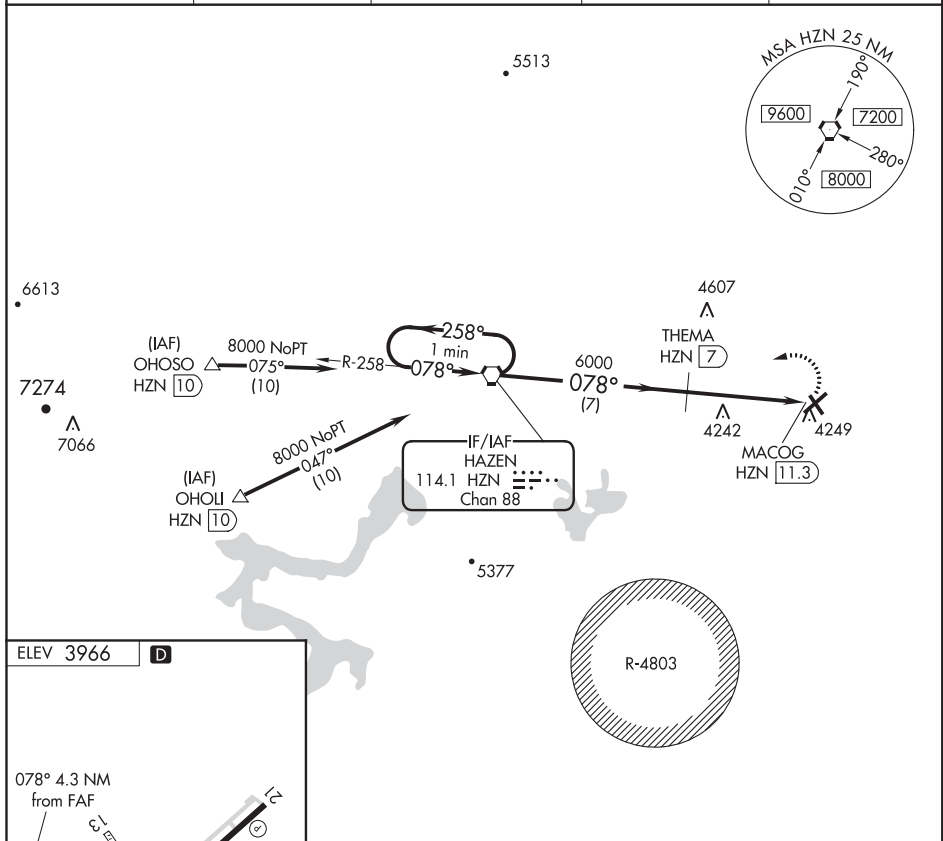
VORTAC HZN 114.1 Chan 88	APP CRS 078°	Rwy Idg TDZE Apt Elev N/A N/A 3966
--	------------------------	--

VOR/DME-B
FALLON MUNI (F'LX)

▼ Use Fallon NAS altimeter setting; when not received procedure NA.
▲ NA Contact Fallon Approach Control for approach clearance, if unable contact Oakland ARTCC.
Circling to Rwy 13-31 NA at night.

MISSED APPROACH: Climb to 6100 then climbing left turn to 8000 direct HZN VORTAC and hold.

AWOS-AV 118.25	NAVY FALLON ATIS* 370.925	NAVY FALLON APP CON* 120.85 360.2	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF)
--------------------------	-------------------------------------	---	--------------------------------------	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	4620-1	654 (700-1)	4620-1¾ 654 (700-1¾)	4620-2 654 (700-2)

FALLON, NEVADA
Amdt 4 03JUN10

39°30'N-118°45'W

FALLON MUNI (F'LX)
VOR/DME-B

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FALLON, NEVADA

RNAV (GPS) RWY 13R

APCH CRS 131°	Rwy ldg 14,001
	THRE 3935
	Arpt Elev 3935

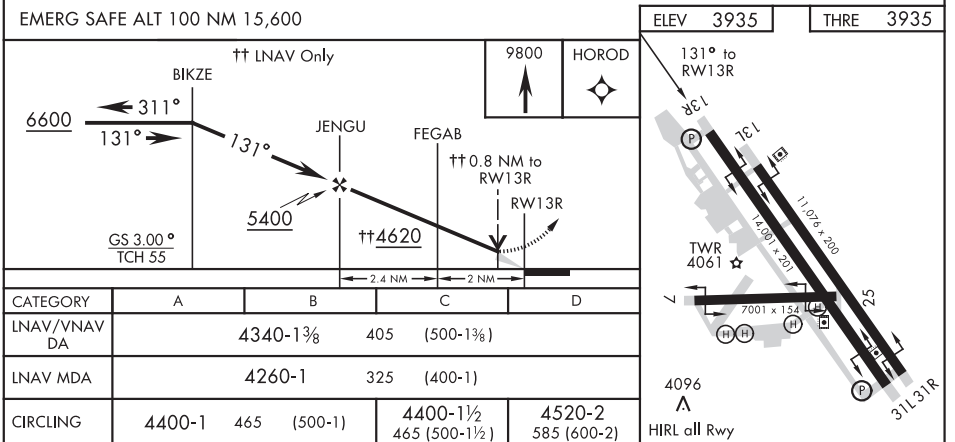
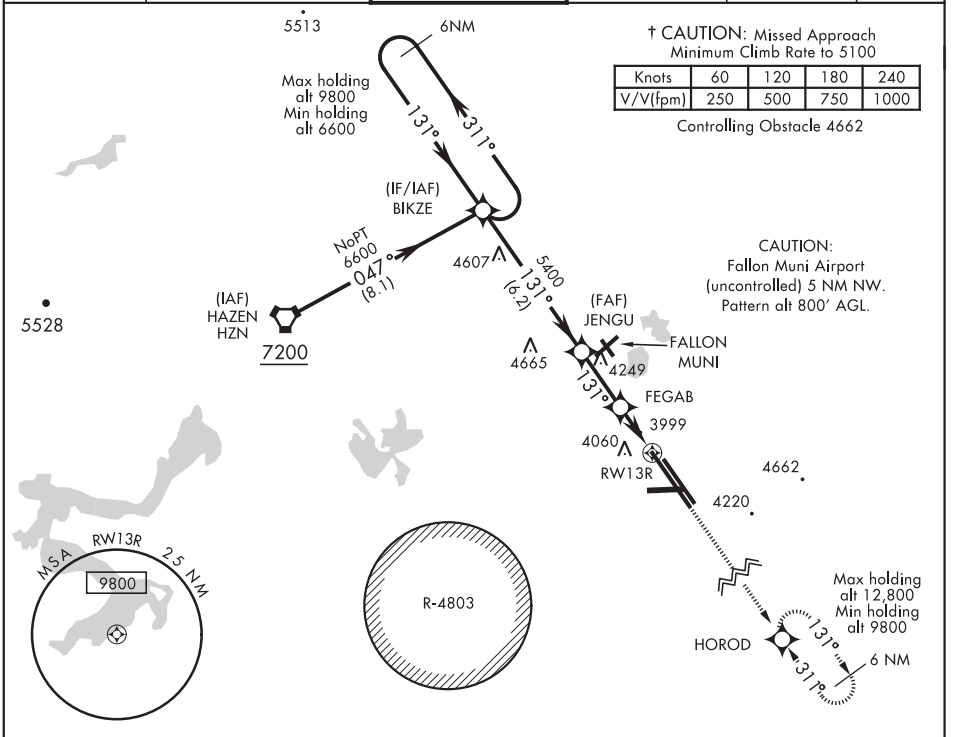
AL-143 [USN]

FALLON NAS (VAN VOORHIS FLD) (KNFL)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-9°F) or above 20°C (68°F) DME/DME RNP-0.3 NA

† MISSED APPROACH: Climb to 9800 direct HOROD and hold. Continue climb-in-hold. Max 175 KIAS until 9800.

ATIS ★ 370.925	NAVY FALLON APP CON 120.85 360.2	NAVY FALLON TOWER ★ 119.25 340.2	GND CON 251.15	CLNC DEL 353.55	ASR/PAR
--------------------------	--	--	--------------------------	---------------------------	---------



FALLON, NEVADA
Amdt 2 08JAN15

39° 25' N 118° 42' W FALLON NAS (VAN VOORHIS FLD) (KNFL)

RNAV (GPS) RWY 13R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FALLON, NEVADA

RNAV (GPS) RWY 31L

APCH CRS 311°	Rwy ldg 14,001
	THRE 3926
	Arpt Elev 3935

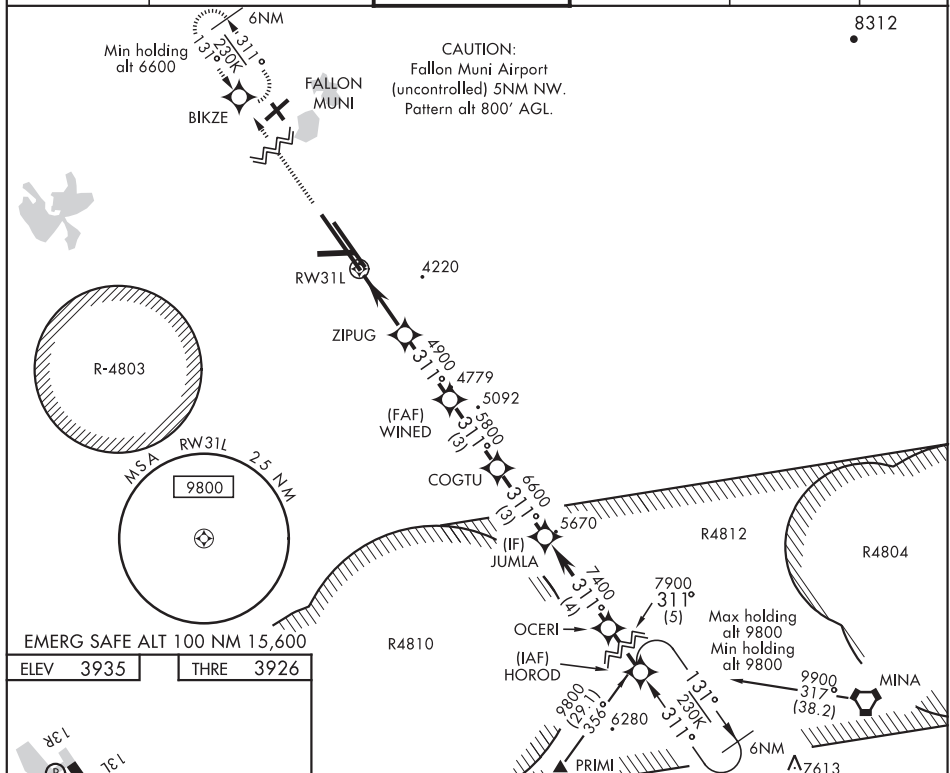
AL-143 [USN]

FALLON NAS (VAN VOORHIS FLD) (KNFL)

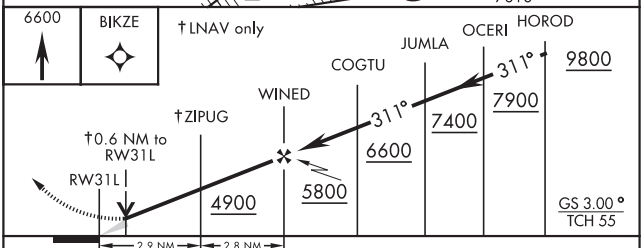
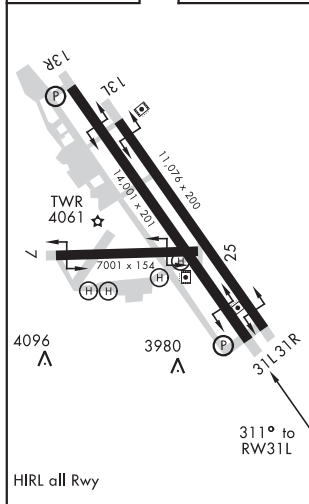
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-9°F) or above 20°C (68°F)
DME/DME RNP-0.3 NA

MISSED APPROACH: Climb to 6600 direct BIKZE and hold.

ATIS ★ 370.925	NAVY FALLON APP CON 120.85 360.2	NAVY FALLON TOWER ★ 119.25 340.2	GND CON 251.15	CLNC DEL 353.55	ASR/PAR
--------------------------	--	--	--------------------------	---------------------------	---------



ELEV 3935	THRE 3926
-----------	-----------



CATEGORY	A	B	C	D
LNAV/VNAV DA		4220-7/8 294	(300-7/8)	
LNAV MDA		4220-1 294	(300-1)	
CIRCLING	4400-1 465	(500-1)	4400-1½ 465 (500-1½)	4520-2 585 (600-2)

FALLON, NEVADA
Amdt 1 08JAN15

39° 25'N-118° 42'W FALLON NAS (VAN VOORHIS FLD) (KNFL)

RNAV (GPS) RWY 31L

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FALLON, NEVADA

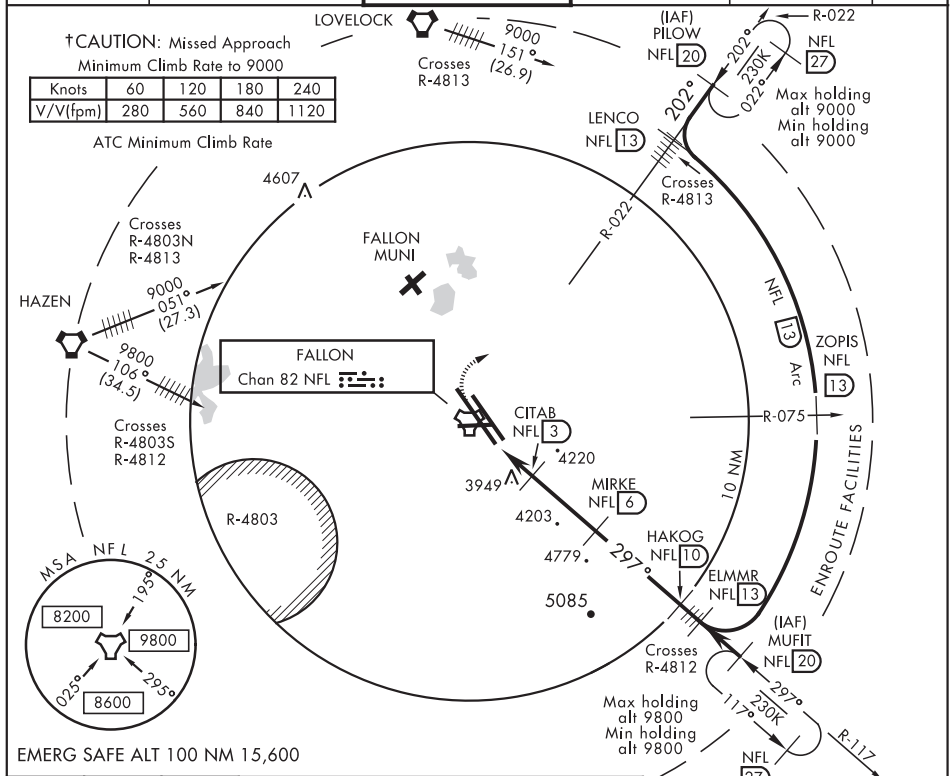
TACAN RWY 31L/R

TACAN NFL Chan 82	APCH CRS 297°	Rwy Idg THRE 31L 14,001 31R 3926 31R 3926 Arpt Elev 3935
-----------------------------	-------------------------	--

AL-143 [USN] FALLON NAS (VAN VOORHIS FLD) (KNFL)

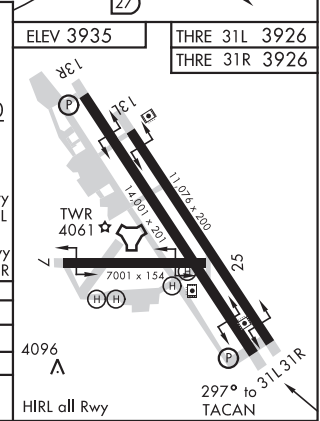
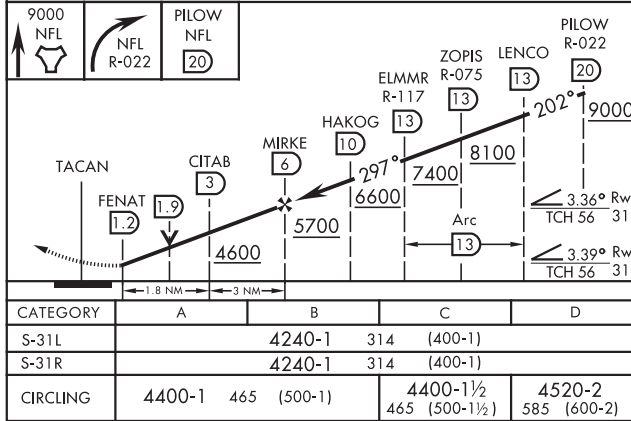
† MISSED APPROACH: Climb direct NFL TACAN, then climbing right turn to 9000. Intercept NFL R-022 outbound to PILOW and hold.

ATIS ★ 370.925	NAVY FALLON APP CON 120.85 360.2	NAVY FALLON TOWER ★ 119.25 340.2	GND CON 251.15	CLNC DEL 353.55	ASR/PAR
--------------------------	--	--	--------------------------	---------------------------	---------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



FALLON, NEVADA
Amdt 1 08JAN15

39° 25'N-118° 42'W FALLON NAS (VAN VOORHIS FLD) (KNFL)

TACAN RWY 31L/R

AIRPORT DIAGRAM

AFD-143 [USN]

FALLON NAS (VAN VOORHIS FLD) (KNFL)

FALLON, NEVADA

ATIS ★
 370.925
 NAVY FALLON TOWER ★
 119.25 340.2
 GND CON
 251.15
 CLNC DEL
 353.55

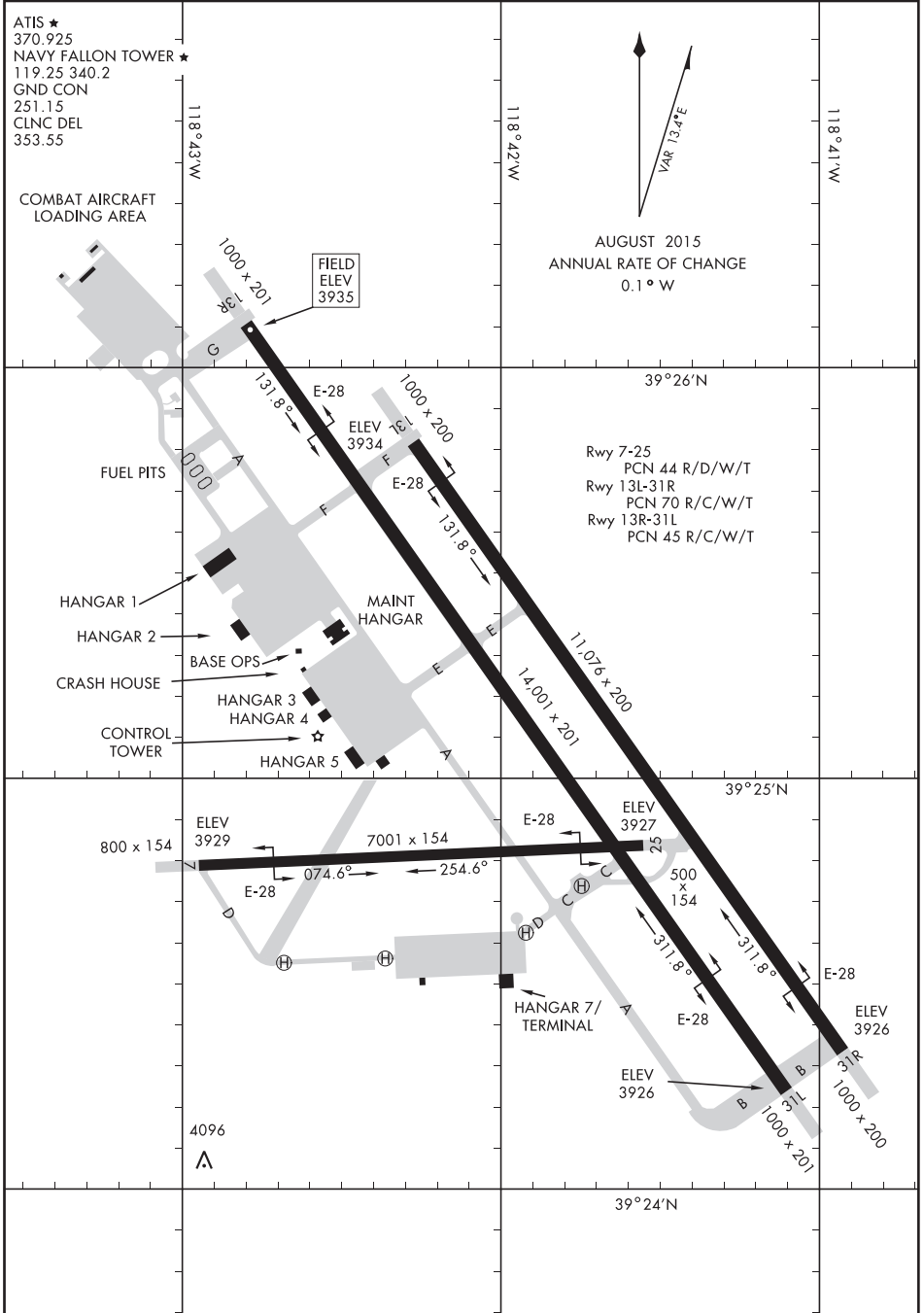
COMBAT AIRCRAFT LOADING AREA



AUGUST 2015
 ANNUAL RATE OF CHANGE
 0.1° W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

FALLON, NEVADA

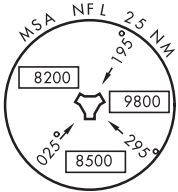
FALLON NAS (VAN VOORHIS FLD) (KNFL)

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

LAKEVIEW
112.0 LKV
Chan 57
L-11, H-3

LOVELOCK
116.5 LLC
Chan 112
L-9-11, H-3

RADAR REQUIRED
(On Lakeview Transition)



MUSTANG
117.9 FMG
Chan 126
L-9, H-3

HAZEN
114.1 HZN
Chan 88
L-9, H-3

JOBAS
9000
FILBU
9000

FALLON
Chan 82 NFL

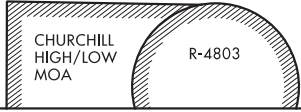
Rwy	Knots	60	120	180	240	300	360
7	⊙ V/V(fpm)	291	582	873	1164	1455	1746
13L/R	⊙ V/V(fpm)	279	558	837	1116	1395	1674
† 31L/R	⊙ V/V(fpm)	368	736	1104	1472	1840	2208
† 25	⊙ V/V(fpm)	369	738	1107	1476	1845	2214

⊙ to 9000

† ATC Climb Rate

Ackt unable to make ATC climb gradient advise ATC prior to departure.

EMERG SAFE ALT 100NM 15,600



① 4.36NM from Rwy 7

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION
(Continued)

HAZEN TRANSITION (WATER6 • HZN): Fly HZN R-048 to HZN. Cross FILBU (HZN R-048/6 DME) at or above 9000. Maintain 250 KIAS until FILBU.

LAKEVIEW TRANSITION (WATER6 • LKV): Turn left direct NFL R-321/21 DME, intercept NFL R-321/LKV VORTAC R-136 to LKV. (Jet route structure only). Maintain 250 KIAS until intercepting NFL R-321.

LOVELOCK TRANSITION (WATER6 • LLC): Fly NFL R-342 and LLC VORTAC R-219 to LLC.

MUSTANG TRANSITION (WATER6 • FMG): Fly FMG VORTAC R-067 to FMG. Cross JOBAS (FMG R-067/37 DME) at or above 9000. Maintain 250 KIAS until JOBAS.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YERIN-SIX DEPARTURE (YERIN6 • YERIN)

SHL-143 [USN]

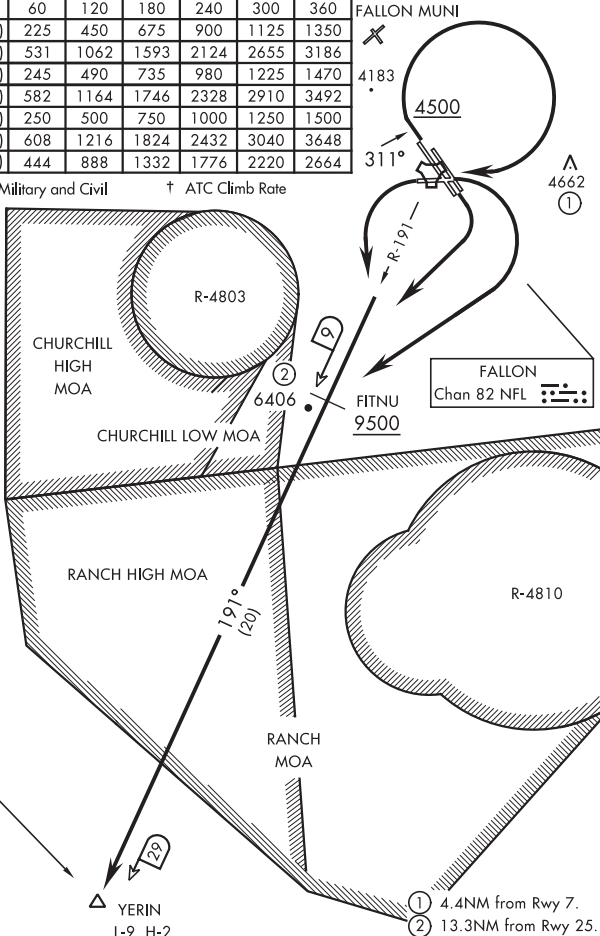
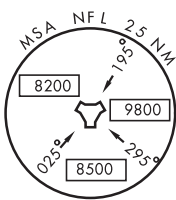
FALLON NAS (VAN VOORHIS FLD)
FALLON, NEVADA

ATIS ★	Rwy	Knots	60	120	180	240	300	360	FALLON MUNI
370.925	* 7 (a)	V/V(fpm)	225	450	675	900	1125	1350	✕
CLNC DEL	† 7 (b)	V/V(fpm)	531	1062	1593	2124	2655	3186	
353.55	*13L/R (c)	V/V(fpm)	245	490	735	980	1225	1470	4183
GND CON	†13L/R (d)	V/V(fpm)	582	1164	1746	2328	2910	3492	
251.15	*25 (e)	V/V(fpm)	250	500	750	1000	1250	1500	
NAVY FALLON TOWER ★	†25 (f)	V/V(fpm)	608	1216	1824	2432	3040	3648	
119.25 340.2	†31L/R (g)	V/V(fpm)	444	888	1332	1776	2220	2664	

NAVY FALLON APP/DEP CON 120.85 360.2 * Minimum Military and Civil † ATC Climb Rate

(a) to 7200
(b) to 9500
Acft unable to make ATC climb gradient advise ATC prior to departure.

MUSTANG
117.9 FMG
Chan 126



EMERG SAFE ALT 100NM 15,600

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 7: Turn right 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 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 25: Climbing left turn 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.

WAAS CH 42917 W04A	APP CRS 041°	Rwy Idg TDZE Apt Elev	5040 4956 4985
--	------------------------	-----------------------------	---

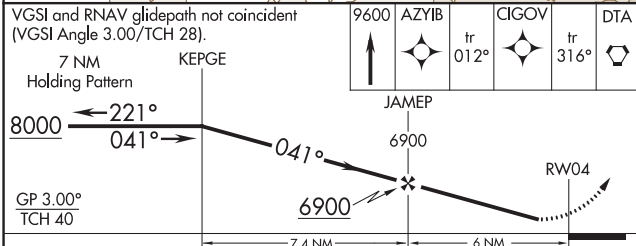
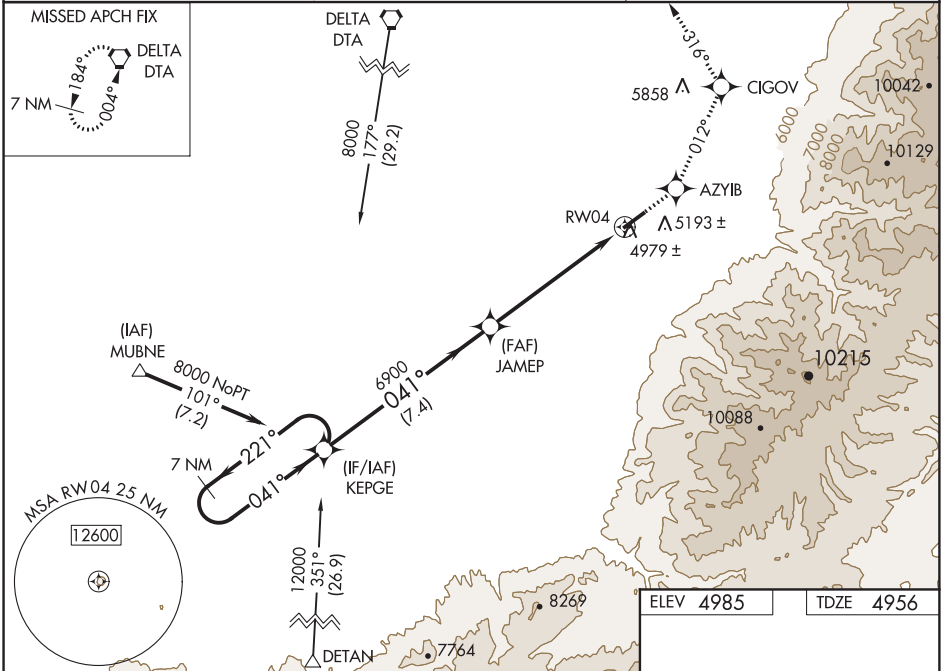
RNAV (GPS) RWY 4

FILLMORE MUNI (FOM)

NA Baro-VNAV NA when using Milford altimeter setting. 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. Visibility reduction by helicopters NA. When local altimeter setting not received, use Milford altimeter setting and increase all DA 651 feet and all MDA 660 feet; increase LPV Cats A/B visibility 1 mile and Cat C 1½ miles, LNAV/VNAV Cat C visibility 1 mile, and LNAV/Circling Cat A visibility ¼ mile, Cat B ½ mile, and Cat C ½ mile. When VGSI inop, procedure NA at night.

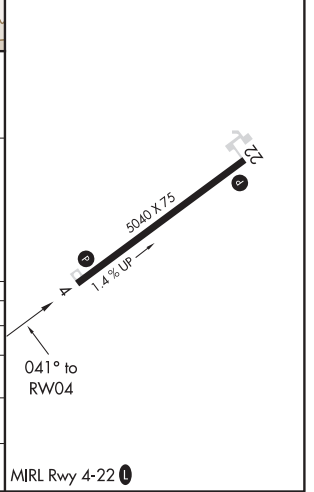
MISSED APPROACH: Climb to 9600 direct AZYIB and on track 012° to CIGOV and on track 316° to DTA VORTAC and hold.

AWOS-3 133.775	SALT LAKE CITY CENTER 125.575 379.275	UNICOM 122.8 (CTAF)
--------------------------	---	-------------------------------



ELEV 4985	TDZE 4956
-----------	-----------

CATEGORY	A	B	C	D
LPV DA	5206-1	250 (300-1)		NA
LNAV/VNAV DA	5439-2	483 (500-2)		NA
LNAV MDA	5460-1	504 (500-1)	5460-1½ 504 (500-1½)	NA
CIRCLING	5560-1	575 (600-1)	5580-1½ 595 (600-1½)	NA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FILLMORE, UTAH

AL-10425 (FAA)

13122

APP CRS	Rwy Idg	5040
207°	TDZE	4985
	Apt Elev	4985

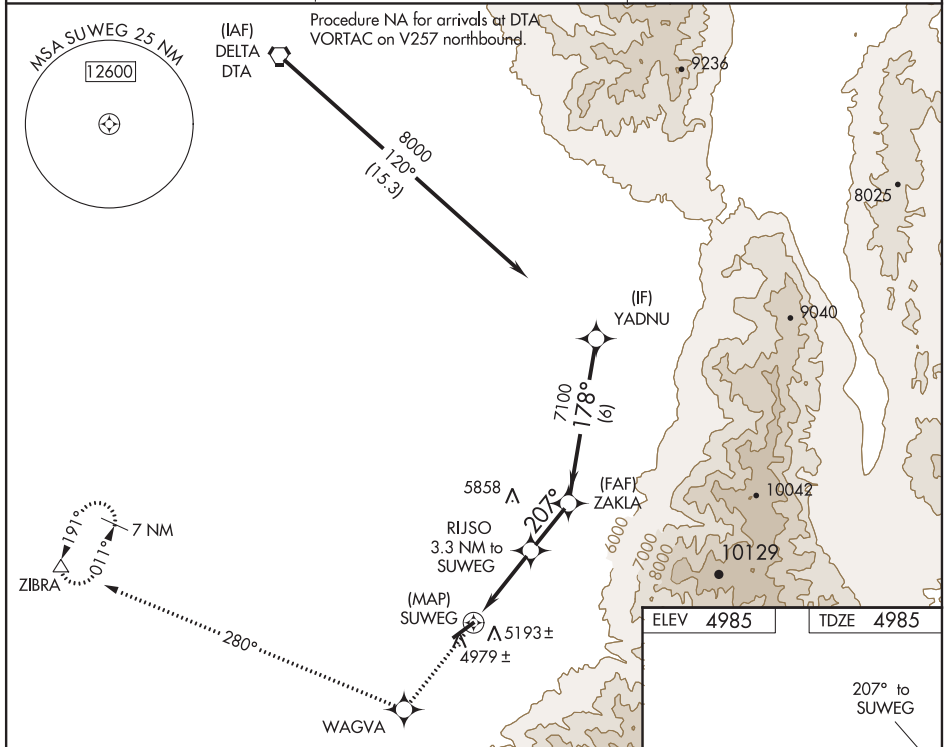
RNAV (GPS) RWY 22

FILLMORE MUNI (FOM)

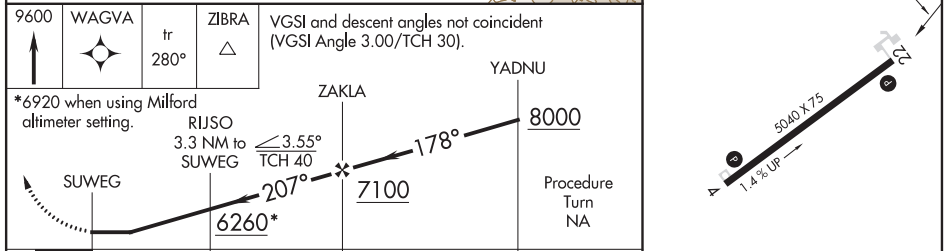
▽ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
▲ LNAV minima NA when using Milford altimeter setting. When local altimeter setting not received, use Milford altimeter setting and increase all circling MDA 660 feet and increase circling Cat A visibility ¼ mile, Cat B visibility ½ mile, and Cat C visibility 1½ miles. When VGSI inop, procedure NA at night.

MISSED APPROACH: Climb to 9600 direct WAGVA and on track 280° to ZIBRA and hold, continue climb-in-hold to 9600.

AWOS-3 133.775	SALT LAKE CITY CENTER 125.575 379.275	UNICOM 122.8 (CTAF) 0
--------------------------	---	---------------------------------



ELEV 4985	TDZE 4985
-----------	-----------



CATEGORY	A	B	C	D
LNAV MDA	5520-1	535 (600-1)	5520-1½ 535 (600-1½)	NA
CIRCLING	5560-1	575 (600-1)	5580-1½ 595 (600-1½)	NA

MIRL Rwy 4-22 0

FILLMORE, UTAH
 Orig-A 13JAN11

38°57'N-112°22'W

RNAV (GPS) RWY 22

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

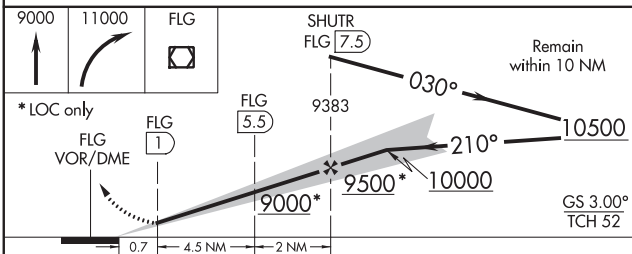
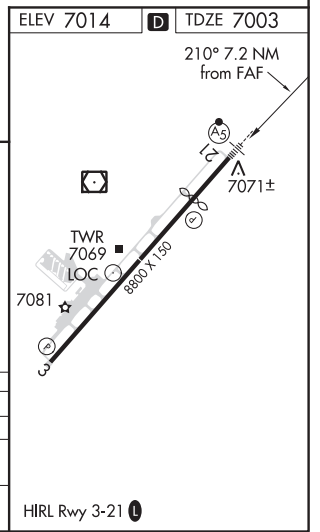
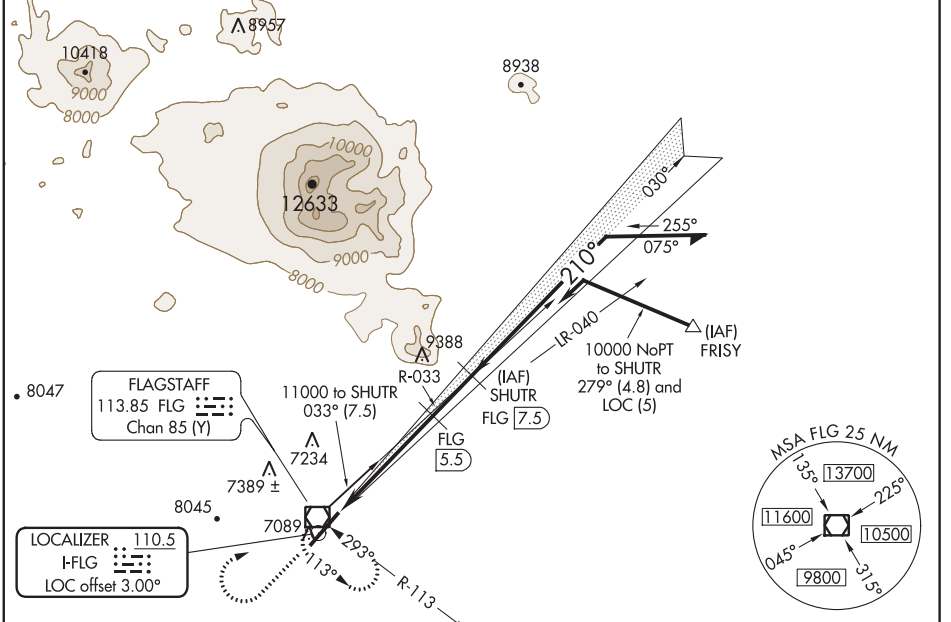
LOC I-FLG 110.5	APP CRS 210°	Rwy Idg 7000
		TDZE 7003
		Apt Elev 7014

ILS or LOC/DME RWY 21

FLAGSTAFF PULLIAM (FLG)

⚠ DME from FLG VOR/DME. Simultaneous reception of I-FLG and FLG DME required. Auto coupled approach not authorized below 7640 feet MSL. For inoperative MALS increase S-LOC 21 Cat D visibility to 1 $\frac{1}{2}$ %. **MALS** MISSED APPROACH: Climb to 9000 then climbing right turn to 11000 direct to FLG VOR/DME and hold.

ATIS 125.8	PHOENIX APP CON 126.375 236.775	FLAGSTAFF TOWER ★ 134.55 (CTAF) 0 239.25	GND CON 121.9	UNICOM 122.95
----------------------	---	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
S-ILS 21	7253- $\frac{3}{4}$		250 (300- $\frac{3}{4}$)	
S-LOC 21	7480- $\frac{3}{4}$	477 (500- $\frac{3}{4}$)	7480-1 $\frac{1}{8}$	477 (500-1 $\frac{1}{8}$)
CIRCLING	7600-1 586 (600-1)	7620-1 606 (700-1)	7620-1 $\frac{3}{4}$ 606 (700-1 $\frac{3}{4}$)	7640-2 626 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45718 W03A	APP CRS 027°	Rwy Idg TDZE Apt Elev	8800 7014 7014
--	------------------------	-----------------------------	---

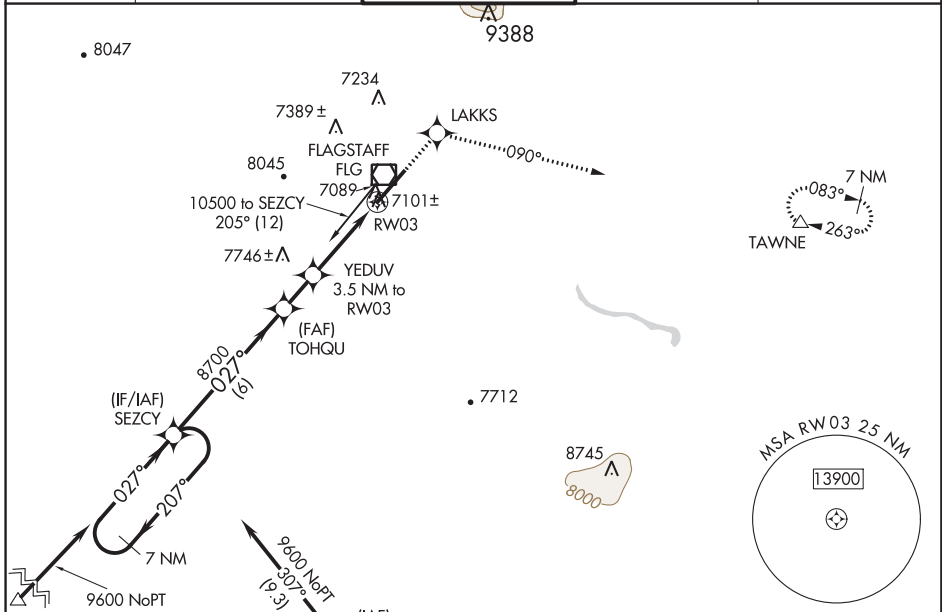
RNAV (GPS) RWY 3

FLAGSTAFF PULLIAM (FLG)

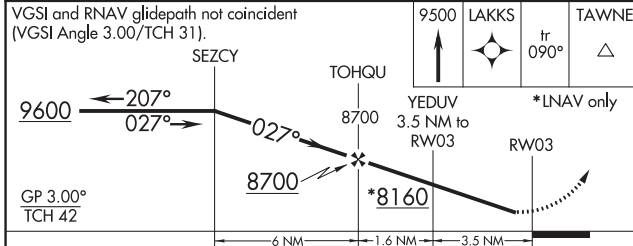
When local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -29°C (-20°F) or above 35°C (95°F). DME/DME
RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 9500 direct
LAKKS and on track 090° to TAWNNE and hold.

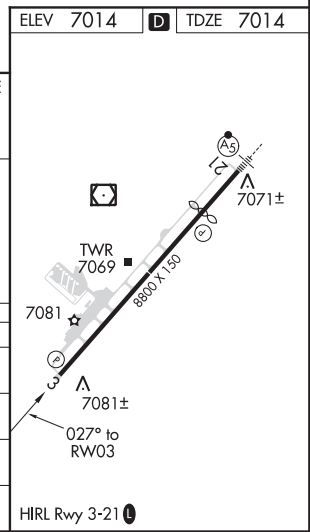
ATIS 125.8	PHOENIX APP CON 126.375 236.775	FLAGSTAFF TOWER ★ 134.55 (CTAF) 239.25	GND CON 121.9	UNICOM 122.95
----------------------	---	--	-------------------------	-------------------------



ELEV 7014	TDZE 7014
-----------	-----------



CATEGORY	A	B	C	D
LPV DA	7264-1 250 (300-1)			
LNAV/VNAV DA	7479-1¾ 465 (500-1¾)			
LNAV MDA	7360-1 346 (400-1)		7360-1¼ 346 (400-1¼)	
CIRCLING	7520-1 506 (600-1)		7520-1½ 506 (600-1½)	7580-2 566 (600-2)



SW-4, 10 NOV 2016 to 05 JAN 2017

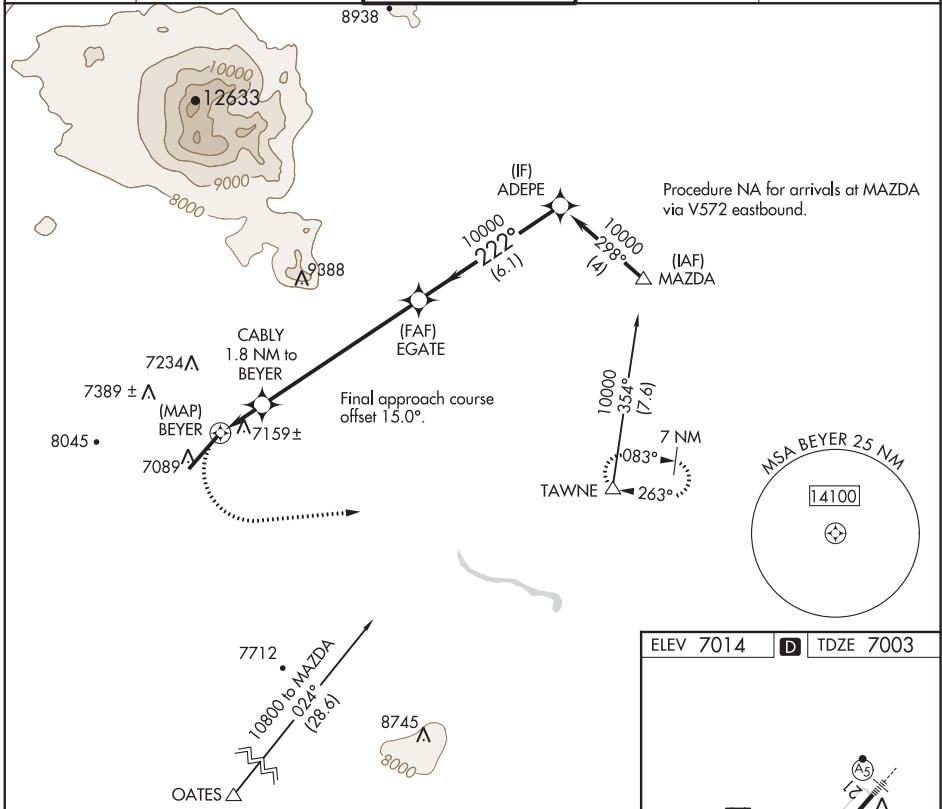
SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	7000
222°	TDZE	7003
	Apt Elev	7014

RNAV (GPS) Y RWY 21

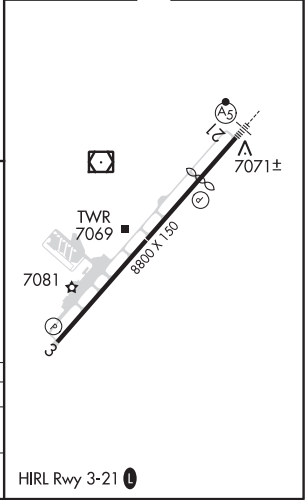
FLAGSTAFF PULLIAM (F'L G)

<p>When local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM not authorized. Night landing: Rwy 21, operational VGSI required, remain on or above VGSI glidepath until threshold.</p>		<p>MALSR</p>	<p>MISSED APPROACH: Climbing left turn to 10500 direct TAWNE and hold, continue climb-in-hold to 10500.</p>	
<p>ATIS</p> <p>125.8</p>	<p>PHOENIX APP CON</p> <p>126.375 236.775</p>	<p>FLAGSTAFF TOWER ★</p> <p>134.55 (CTAF) 239.25</p>	<p>GND CON</p> <p>121.9</p>	<p>UNICOM</p> <p>122.95</p>



ELEV 7014	D	TDZE 7003
-----------	----------	-----------

10500	TAWNE	EGATE	ADEPE	
7800	CABLY 1.8 NM to BEYER		Procedure Turn NA	
7800	7800	10000	10000	
0.4	1.8 NM	6.8 NM	6.1 NM	
CATEGORY	A	B	C	D
LNNAV MDA	7420-1	417 (500-1)	7420-1¼ 417 (500-1¼)	7420-1⅛ 417 (500-1⅛)
CIRCLING	7520-1 506 (600-1)	7560-1 546 (600-1)	7560-1½ 546 (600-1½)	7580-2 566 (600-2)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 261°	Rwy Idg TDZE Apt Elev	N/A N/A 7014
------------------------	-----------------------------	---

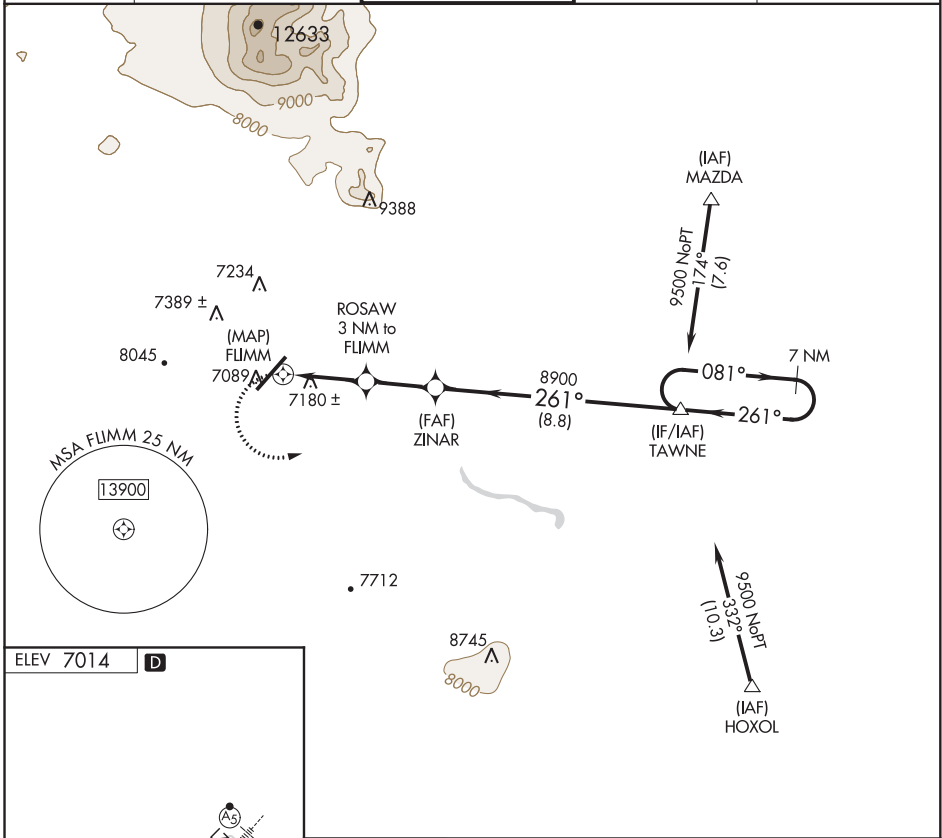
RNAV (GPS)-B

FLAGSTAFF PULLIAM (F.L.G)

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.

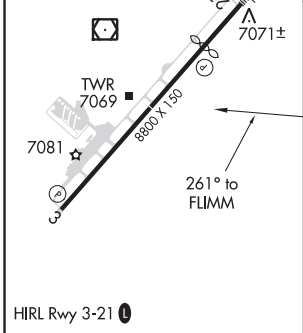
MISSED APPROACH: Climbing left turn to 9500 direct TAWNE and hold.

ATIS 125.8	PHOENIX APP CON 126.375 236.775	FLAGSTAFF TOWER ★ 134.55 (CTAF) 239.25	GND CON 121.9	UNICOM 122.95
----------------------	---	--	-------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
	7520-1	506 (600-1)	7520-1½ 506 (600-1½)	7580-2 566 (600-2)

FLAGSTAFF, ARIZONA

AL-5034 (FAA)


16315

VOR/DME FLG 113.85 Chan 85 (Y)	APP CRS 236°	Rwy Idg 7000 TDZE 7003 Apt Elev 7014
--	------------------------	---

VOR/DME RWY 21

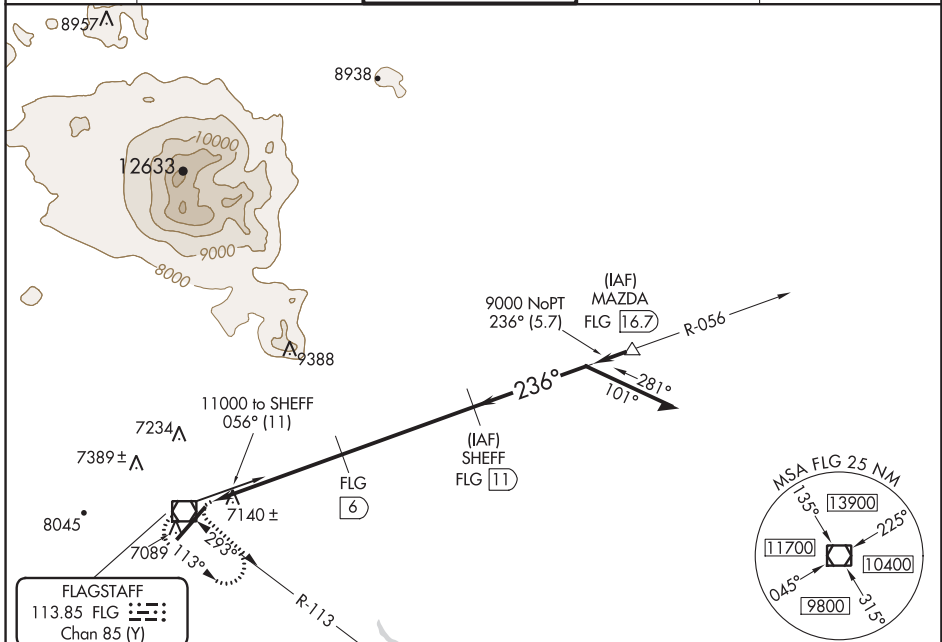
FLAGSTAFF PULLIAM (FLG)

▼ Inoperative table does not apply. Helicopter visibility reduction below 1 SM not authorized. Night landing: Rwy 21, operational VGSJ required, remain on or above VGSJ glidepath until threshold.

MALSR 

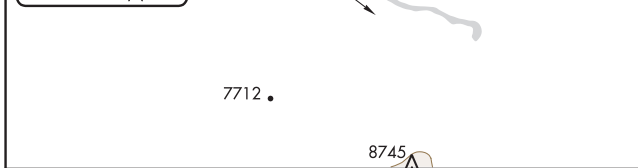
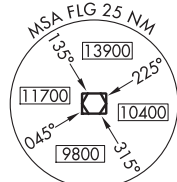
MISSED APPROACH: Climbing left turn to 9000 via FLG R-113, reverse course climbing to 11000 direct to FLG VOR/DME and hold.

ATIS 125.8	PHOENIX APP CON 126.375 236.775	FLAGSTAFF TOWER ★ 134.55 (CTAF) 239.25	GND CON 121.9	UNICOM 122.95
----------------------	---	---	-------------------------	-------------------------

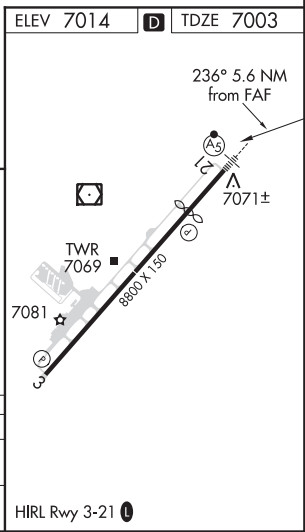


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



9000 REVERSE COURSE FLG R-113	11000 FLG	SHEFF FLG 11	Remain within 10 NM
FLG 1	FLG 6	056°	236°
8200	9000	9600	



CATEGORY	A	B	C	D
S-21	7800-1 797 (800-1)	7800-1¼ 797 (800-1¼)	7800-2¼ 797 (800-2¼)	7800-2½ 797 (800-2½)
CIRCLING	7800-1 786 (800-1)	7800-1¼ 786 (800-1¼)	7800-2¼ 786 (800-2¼)	7800-2½ 786 (800-2½)

FLAGSTAFF, ARIZONA
Orig-D 18SEP14

35°08'N-111°40'W

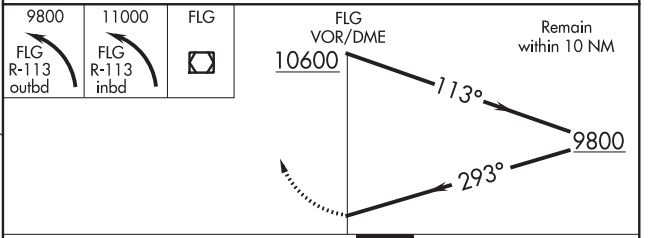
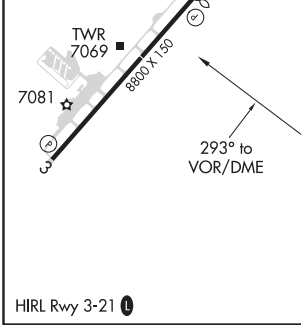
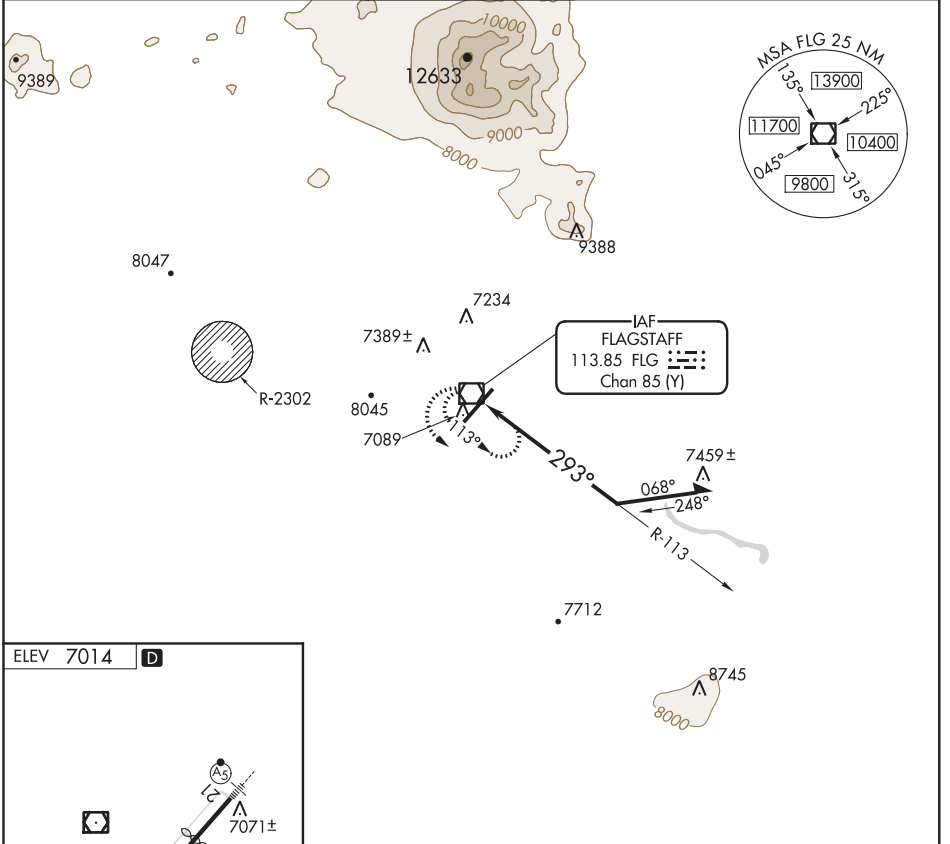
FLAGSTAFF PULLIAM (FLG) VOR/DME RWY 21

VOR/DME FLG 113.85 Chan 85 (Y)	APP CRS 293°	Rwy Idg TDZE Apt Elev N/A N/A 7014
---	------------------------	--

VOR-A
FLAGSTAFF PULLIAM (FLG)

▼ When local altimeter setting not received, procedure NA.
 ▲ MISSED APPROACH: Climbing left turn to 9800 via FLG VOR/DME R-113 outbound then climbing left turn to 11000 via FLG VOR/DME R-113 inbound to FLG VOR/DME and hold.

ATIS 125.8	PHOENIX APP CON 126.375 236.775	FLAGSTAFF TOWER * 134.55 (CTAF) 0 239.25	GND CON 121.9	UNICOM 122.95
----------------------	---	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
CIRCLING	8300-1¼ 1286 (1300-1¼)	8300-1½ 1286 (1300-1½)	8300-3	1286 (1300-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

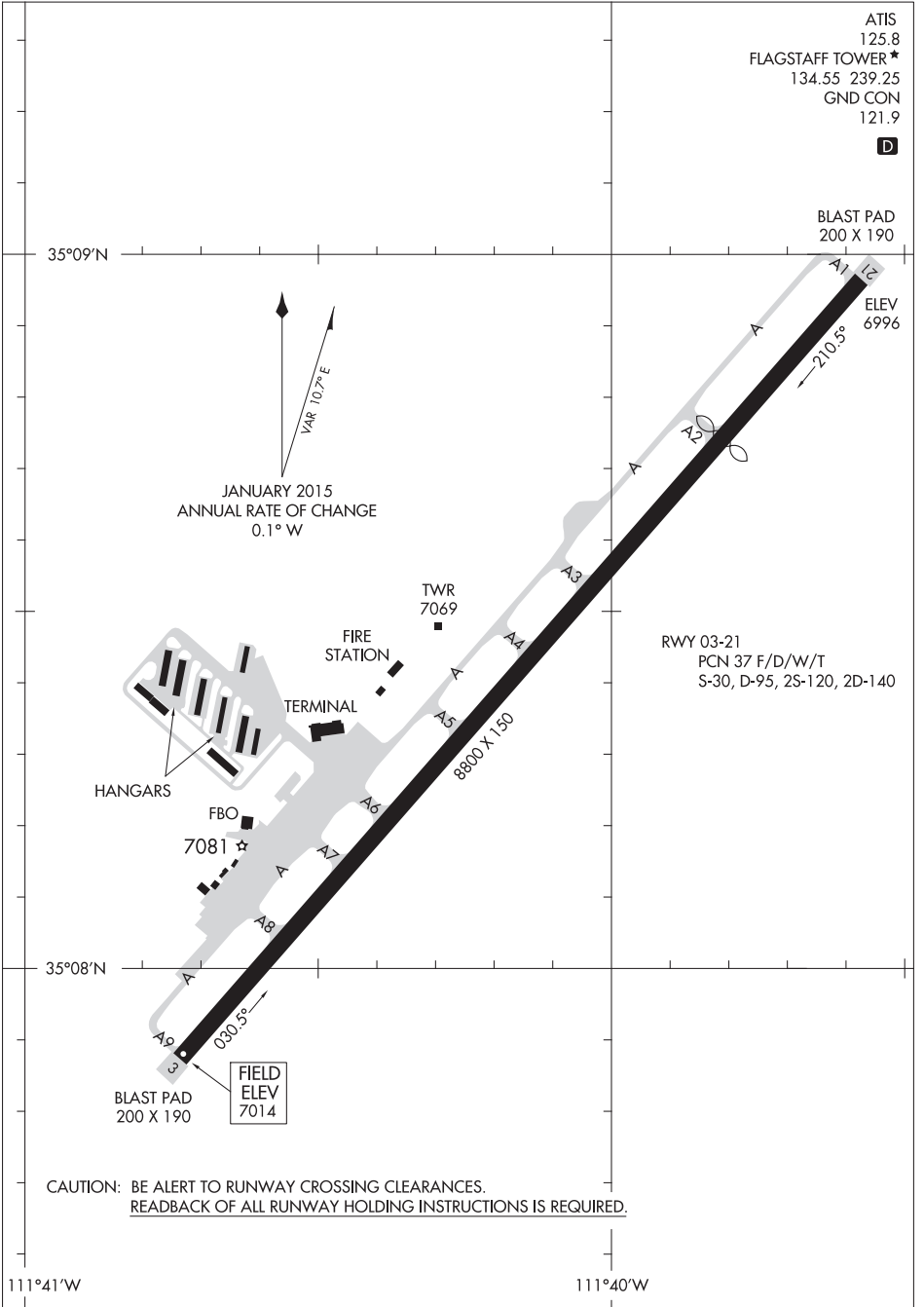
AIRPORT DIAGRAM

AL-5034 (FAA)

FLAGSTAFF PULLIAM (F'L G)
FLAGSTAFF, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ATIS 125.8
 FLAGSTAFF TOWER * 134.55 239.25
 GND CON 121.9
 [D]

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

AIRPORT DIAGRAM

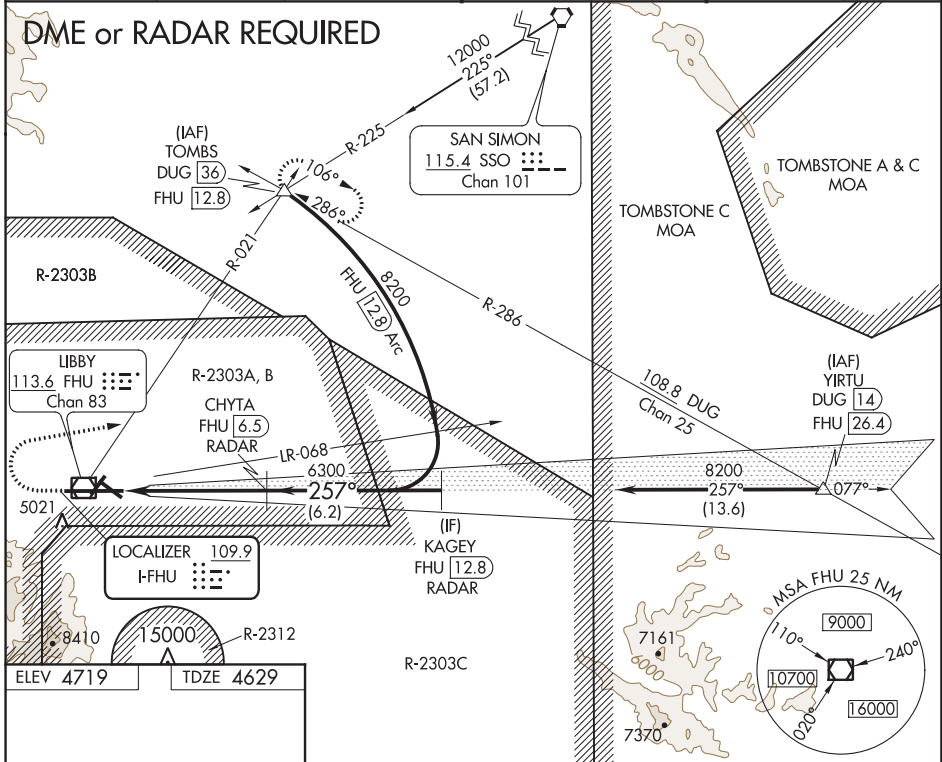
FLAGSTAFF, ARIZONA
FLAGSTAFF PULLIAM (F'L G)

LOC I-FHU 109.9	APP CRS 257°	Rwy Idg TDZE Apt Elev	12001 4629 4719
---------------------------	------------------------	-----------------------------	--

ILS or LOC RWY 26

SIERRA VISTA MUNI-LIBBY AAF (FHU)

<p>ASR/PAR</p> <p>ATIS 134.75 265.7 ASOS 119.675 LIBBY AAF GCA* 127.05 254.35 LIBBY TOWER* 124.95 (CTAF) 0 284.75 GND CON 121.7 268.7 UNICOM 122.95</p>		<p>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.</p>
--	--	---



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

<p>ELEV 4719 TDZE 4629</p> <p>LOCALIZER I-FHU 109.9</p> <p>LIBBY 113.6 FHU Chan 83</p> <p>CHYTA FHU 6.5 RADAR</p> <p>KAGEY FHU 12.8 RADAR</p> <p>YIRTU DUG 14 FHU 26.4</p> <p>8200 MSA FHU 25 NM</p> <p>10770 MSA</p>	<p>5300</p> <p>9500</p> <p>hdg 067°</p>	<p>TOMBS FHU R-021</p>	<p>VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 80).</p> <p>KAGEY FHU 12.8 RADAR</p> <p>CHYTA FHU 6.5 RADAR</p>																																
	<p>5.2 NM</p> <p>6.2 NM</p>	<p>FHU 1.4</p> <p>6300</p> <p>8200</p> <p>257°</p> <p>GS 3.00° TCH 49</p>	<p>5021</p> <p>6300 (6.2)</p> <p>5021</p>	<p>5020-1 391 (400-1)</p> <p>5020-1½ 391 (400-1½)</p>																															
<p>HIRL Rwy 8-26</p> <p>MIRL Rwys 3-21 and 12-30</p> <p>FAF to MAP 5.2 NM</p> <table border="1"> <tr> <td>Knots</td> <td>60</td> <td>90</td> <td>120</td> <td>150</td> <td>180</td> </tr> <tr> <td>Min:Sec</td> <td>5:12</td> <td>3:28</td> <td>2:36</td> <td>2:05</td> <td>1:44</td> </tr> </table>	Knots	60	90	120	150	180	Min:Sec	5:12	3:28	2:36	2:05	1:44	<table border="1"> <tr> <th>CATEGORY</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> <tr> <td>S-ILS 26</td> <td colspan="4">4829-¾ 200 (200-¾)</td> </tr> <tr> <td>S-LOC 26</td> <td>5020-1</td> <td>391 (400-1)</td> <td>5020-1½</td> <td>391 (400-1½)</td> </tr> <tr> <td>CIRCLING</td> <td>5160-1 441 (500-1)</td> <td>5180-1 461 (500-1)</td> <td>5180-1½ 461 (500-1½)</td> <td>5280-2 561 (600-2)</td> </tr> </table>			CATEGORY	A	B	C	D	S-ILS 26	4829-¾ 200 (200-¾)				S-LOC 26	5020-1	391 (400-1)	5020-1½	391 (400-1½)	CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)
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)	5020-1½	391 (400-1½)																															
CIRCLING	5160-1 441 (500-1)	5180-1 461 (500-1)	5180-1½ 461 (500-1½)	5280-2 561 (600-2)																															

WAAS CH 82123 W08A	APP CRS 077°	Rwy Idg TDZE Apt Elev	12001 4719 4719
--	------------------------	-----------------------------	--

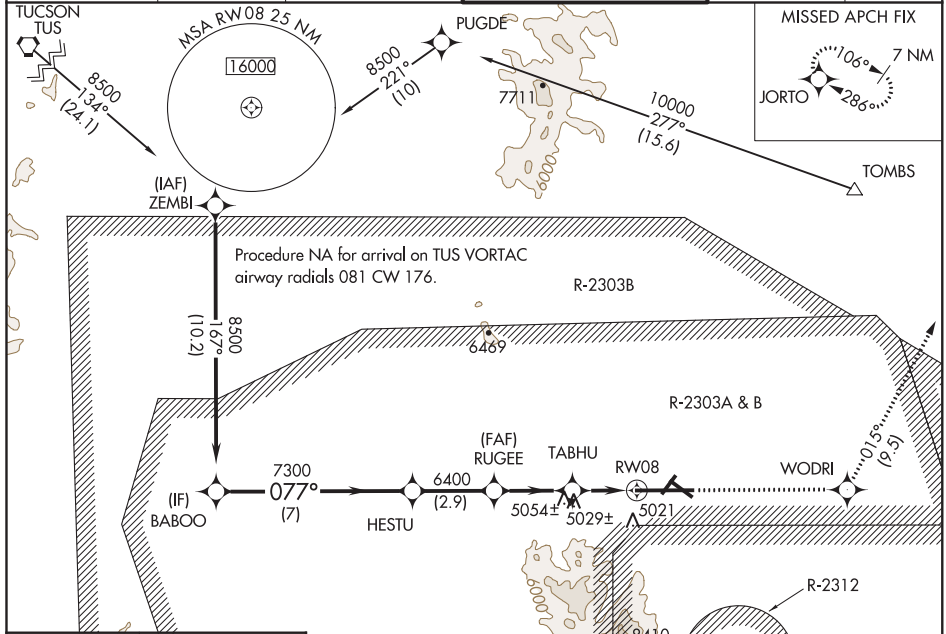
RNAV (GPS) RWY 8

SIERRA VISTA MUNI-LIBBY AAF (FHU)

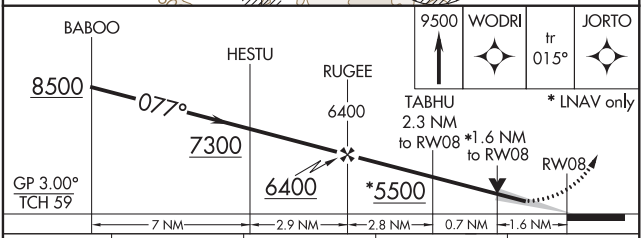
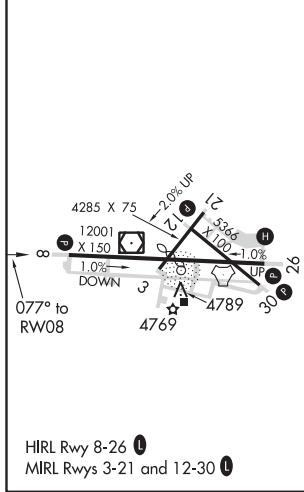
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 14°C (57°F).
 ASR/PAR Circling NA south of Rwy 8-30. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9500 direct WODRI and on track 015° to JORTO and hold, continue climb-in-hold to 9500.

ATIS 134.75 265.7	ASOS 119.675	LIBBY AAF GCA* 127.05 254.35	LIBBY TOWER* 124.95 (CTAF) 284.75	GND CON 121.7 268.7	UNICOM 122.95
-----------------------------	------------------------	--	---	-------------------------------	-------------------------



ELEV 4719	TDZE 4719
-----------	-----------



CATEGORY	A	B	C	D
LPV DA		4919-3/4	200 (200-3/4)	
LNAV/ VNAV DA		5059-1 1/8	340 (400-1 1/8)	
LNAV MDA	5280-1	561 (600-1)	5280-1 1/8	561 (600-1 1/8)
CIRCLING	5280-1	561 (600-1)	5280-1 1/8	5280-2
			561 (600-1 1/8)	561 (600-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS
257°

Rwy Idg **12001**
TDZE **4629**
Apt Elev **4719**

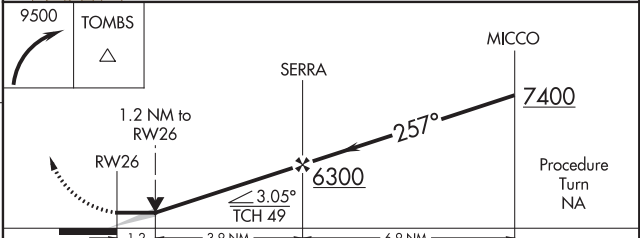
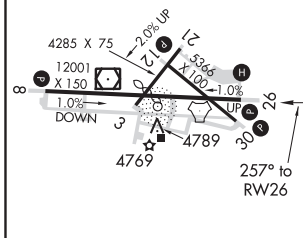
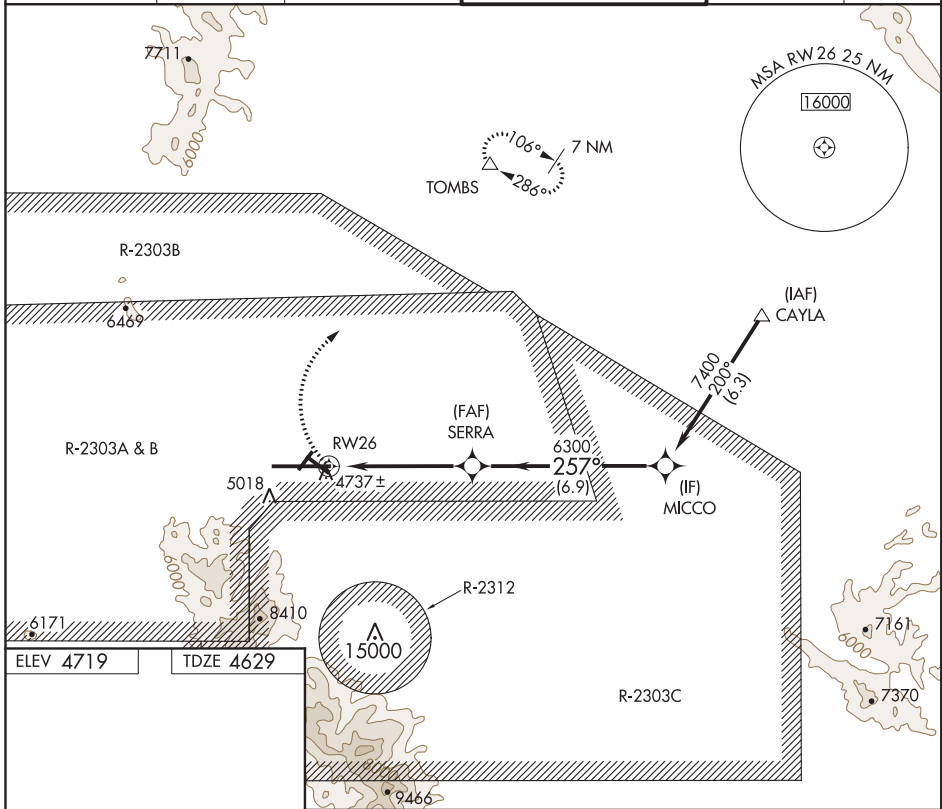
RNAV (GPS) RWY 26

SIERRA VISTA MUNI-LIBBY AAF (FHU)

ASR/PAR DME/DME RNP-0.3 NA.
Circling not authorized south of runways 8 and 30.

MISSED APPROACH: Climbing right turn to 9500 direct TOMBS and hold.

ATIS 134.75 265.7	ASOS 119.675	LIBBY AAF GCA* 127.05 254.35	LIBBY TOWER* 124.95 (CTAF) 284.75	GND CON 121.7 268.7	UNICOM 122.95
-----------------------------	------------------------	--	---	-------------------------------	-------------------------



	1.2	3.9 NM	6.9 NM	
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)

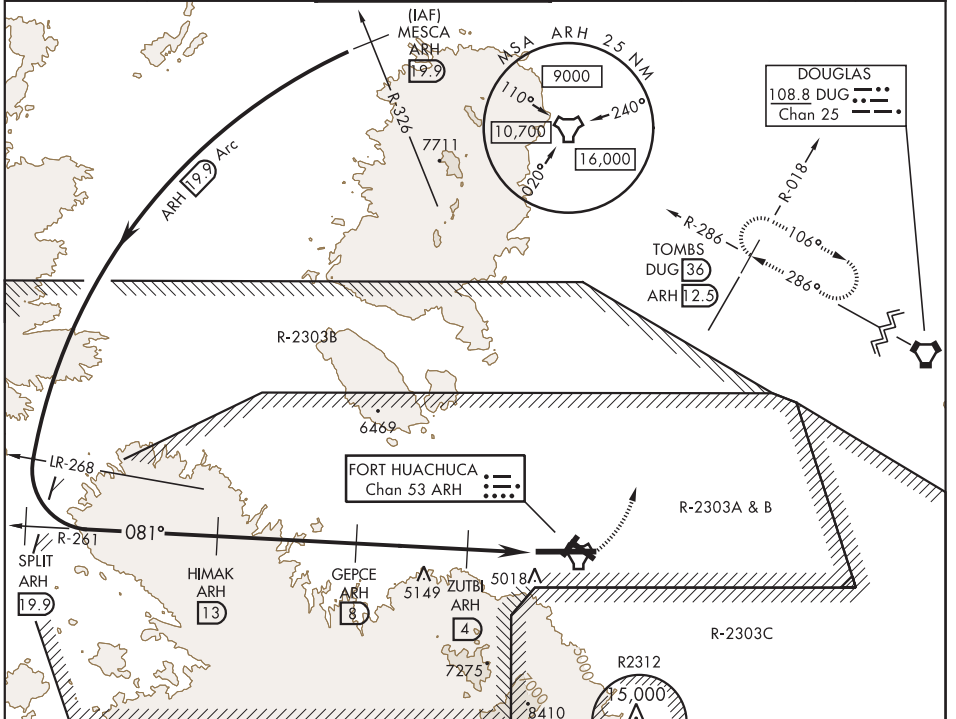
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TACAN ARH Chan 53	APCH CRS 081°	Rwy ldg 12,001 TDZE 4719 Arpt Elev 4719	AL-5081 [USA]	FORT HUACHUCA-SIERRA VISTA/ SIERRA VISTA MUNI-LIBBY AAF (KFHU)
----------------------	------------------	---	---------------	---

▼ * Circling not authorized South of Rwy 8 and 30. MISSED APPROACH: Climb to 5500 then climbing left turn to 9500 via ARH R-018 to TOMBS INT/DUG 36 DME and hold.

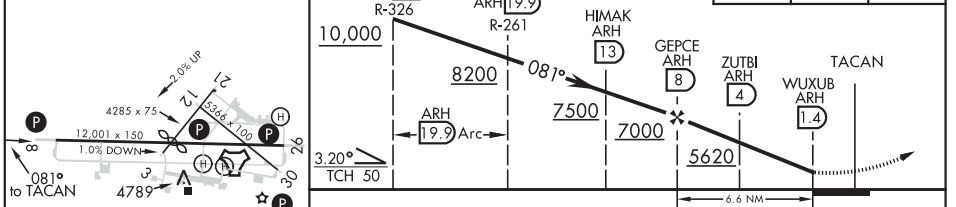
ATIS ★ 134.75 265.7	LIBBY AAF GCA 127.05 254.35	LIBBY TOWER ★ 124.95 (CTAF) 284.75	GND CON 121.7 268.7	ASR/PAR	UNICOM 122.95	ASOS 119.675
------------------------	--------------------------------	---------------------------------------	------------------------	---------	------------------	-----------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4719	TDZE 4719	VGSI and descent angle not coincident	5500	9500	TOMBS
-----------	-----------	---------------------------------------	------	------	-------



	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)

FORT HUACHUCA/SIERRA VISTA, ARIZONA Amdt 1A 15288 31° 35'N-110° 21'W FORT HUACHUCA-SIERRA VISTA/ (KFHU) SIERRA VISTA MUNI-LIBBY AAF

FORT HUACHUCA/SIERRA VISTA, ARIZONA

TACAN RWY 26

TACAN ARH Chan 53	APCH CRS 251°	Rwy ldg 12,001 TDZE 4629 Arpt Elev 4719
-----------------------------	-------------------------	--

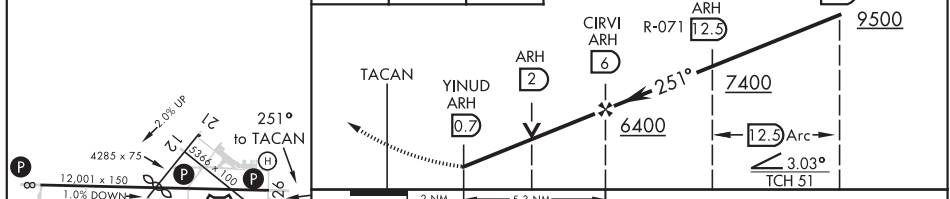
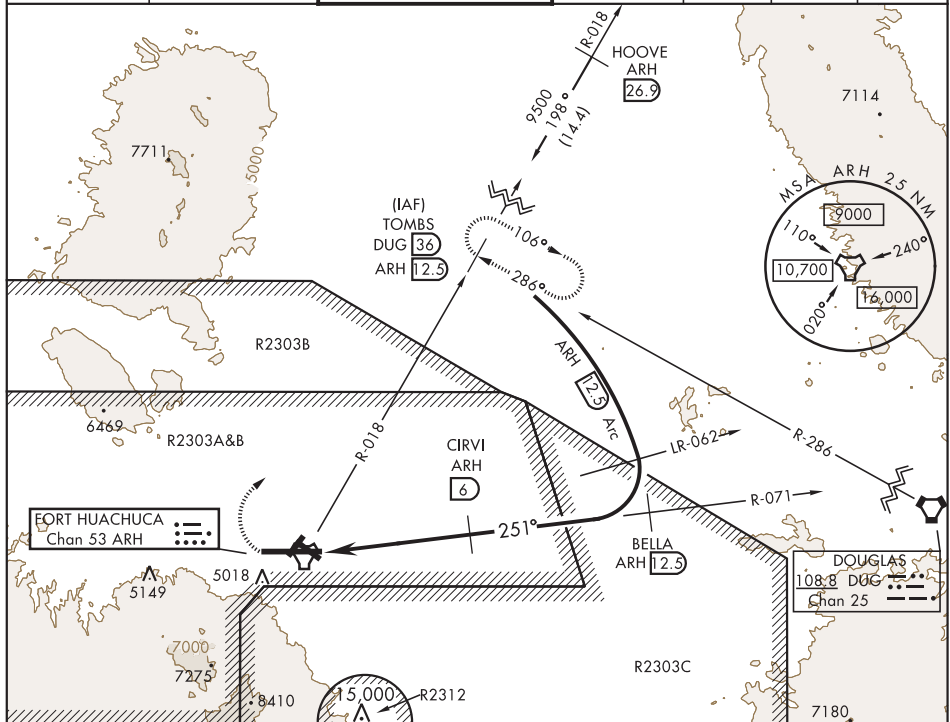
AL-5081 [USA]

FORT HUACHUCA-SIERRA VISTA/
SIERRA VISTA MUNI-LIBBY AAF (KFHU)

▼ * Circling not authorized South of Rwy 8 and 30.

MISSED APPROACH: Climb to 5300 then climbing right turn to 9500 via ARH R-018 to TOMBS INT/DUG 36 DME and hold.

ATIS ★ 134.75 265.7	LIBBY AAF GCA 127.05 254.35	LIBBY TOWER ★ 124.95 (CTAF) 284.75	GND CON 121.7 268.7	ASR/PAR	UNICOM 122.95	ASOS 119.675
-------------------------------	---------------------------------------	--	-------------------------------	---------	-------------------------	------------------------



MIRL Rwy 3-21
HIRL Rwy 8-26
MIRL Rwy 12-30
Rwy 3 ldg 3032'

FORT HUACHUCA/SIERRA VISTA, ARIZONA 31° 35'N-110° 21'W FORT HUACHUCA-SIERRA VISTA/ (KFHU) SIERRA VISTA MUNI-LIBBY AAF

TACAN RWY 26

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

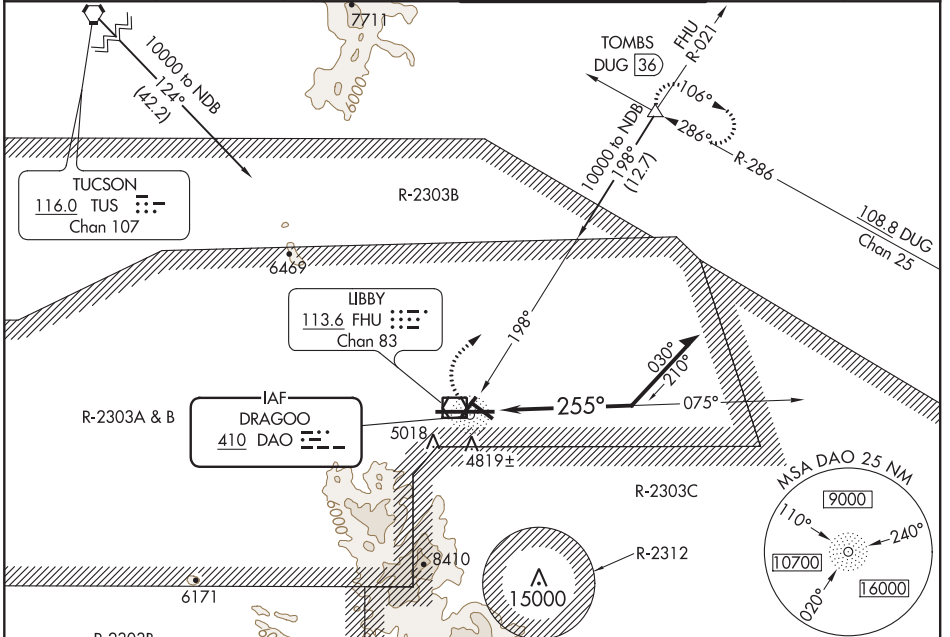
NDB DAO 410	APP CRS 255°	Rwy Idg 12001 TDZE 4629 Apt Elev 4719
-----------------------	------------------------	---

NDB RWY 26

SIERRA VISTA MUNI-LIBBY AAF (FHU)

⚠ Circling not authorized south of Rwy 8 and 30.
ASR/PAR MISSED APPROACH: Climbing right turn to 9500 via DAO NDB 018° bearing to TOMBS Int/DUG 36 DME and hold.

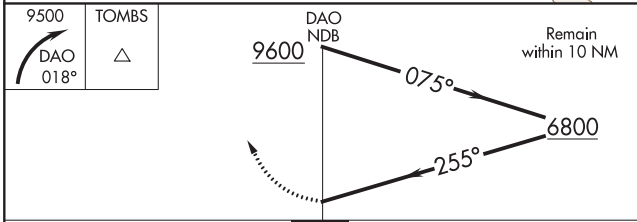
ATIS 134.75 265.7	ASOS 119.675	LIBBY AAF GCA* 127.05 254.35	LIBBY TOWER* 124.95 (CTAF) 284.75	GND CON 121.7 268.7	UNICOM 122.95
-----------------------------	------------------------	--	---	-------------------------------	-------------------------



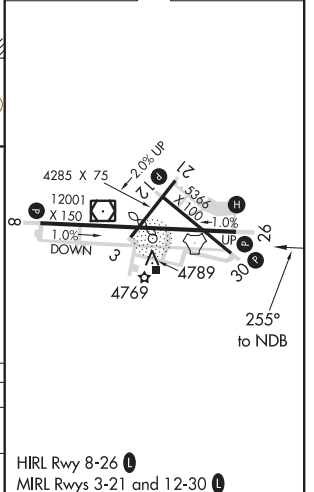
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

Procedure not authorized when R-2312 active.



ELEV 4719	TDZE 4629
-----------	-----------



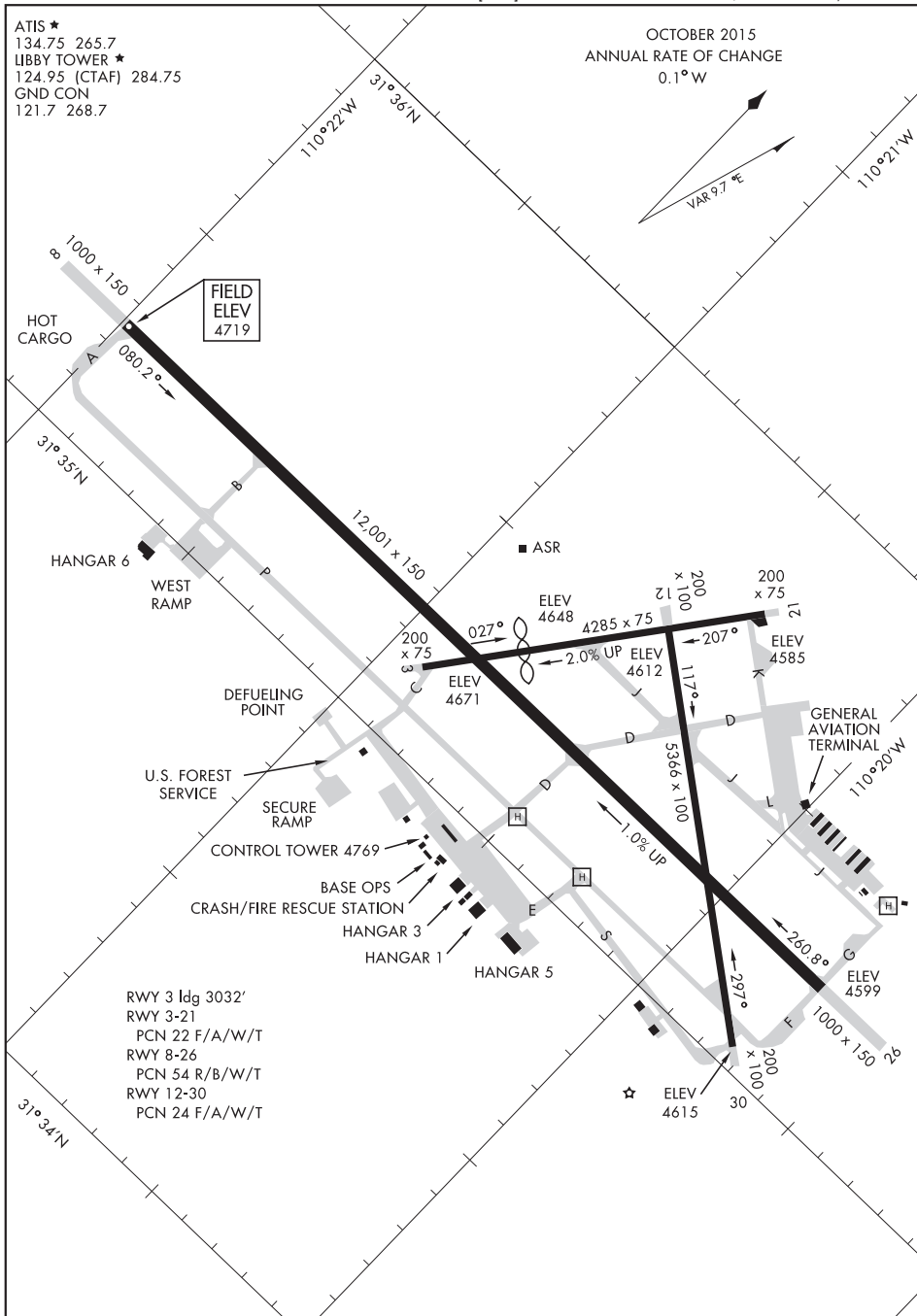
CATEGORY	A	B	C	D
S-26	5300-1 671 (600-1)	5300-2 671 (600-2)	5300-2 671 (600-2)	5300-2 671 (600-2)
CIRCLING	5300-1 581 (600-1)	5300-2 581 (600-2)	5300-2 581 (600-2)	5300-2 581 (600-2)

HIRL Rwy 8-26
 MRL Rwy 3-21 and 12-30

AIRPORT DIAGRAM

AFD-5081 [USA]

FORT HUACHUCA/SIERRA VISTA, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 Idg TDZE Apt Elev	6449 1049 1071
--	------------------------	-----------------------------	---

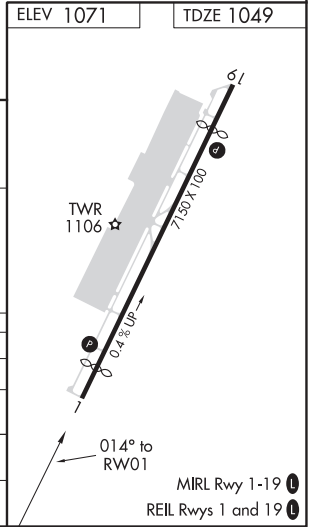
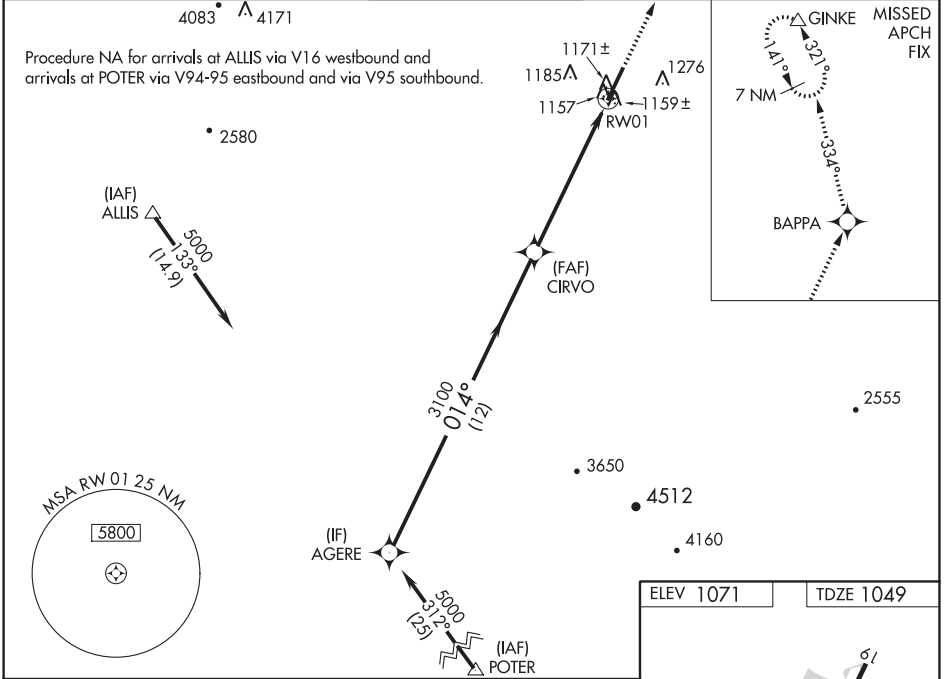
RNAV (GPS) RWY 1

GLENDALE MUNI (GEU)

⚠ Circling not authorized west of Rwy 1-19. DME/DME RNP-0.3 NA. Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (117°F). When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA/MDAs 60 feet, and increase LNAV/VNAV all Cats visibility ¼ mile and LNAV Cat C and D and Circling Cat C visibility ¼ mile. Night landing: Rwy 1, Cat C and D operational VGSI required, remain on or above VGSI glidepath until threshold.

⚠ MISSED APPROACH: Climb to 10000 direct BAPPA and via 334° track to GINKE and hold, continue climb-in-hold to 10000.

ATIS 119.425	LUKE APP CON * 118.15 363.125	GLENDALE TOWER * 121.0 (CTAF) 0	GND CON 118.0	UNICOM 122.95
------------------------	---	---	-------------------------	-------------------------



AGERE	Procedure Turn NA		10000	BAPPA	334° tr	GINKE
5000		CIRVO				
GP 3.00° TCH 40						
	12 NM		6.2 NM			
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)		1440-1¼ 391 (400-1¼)	
CIRCLING	1520-1 449 (500-1)	1660-1 589 (600-1)	1660-1½ 589 (600-1½)		1660-2 589 (600-2)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

GLENDALE, ARIZONA

AL-6915 (FAA)

15176

WAAS CH 87004 W19A	APP CRS 194°	Rwy Idg TDZE Apt Elev	6149 1065 1071
---------------------------------	------------------------	-----------------------------	---

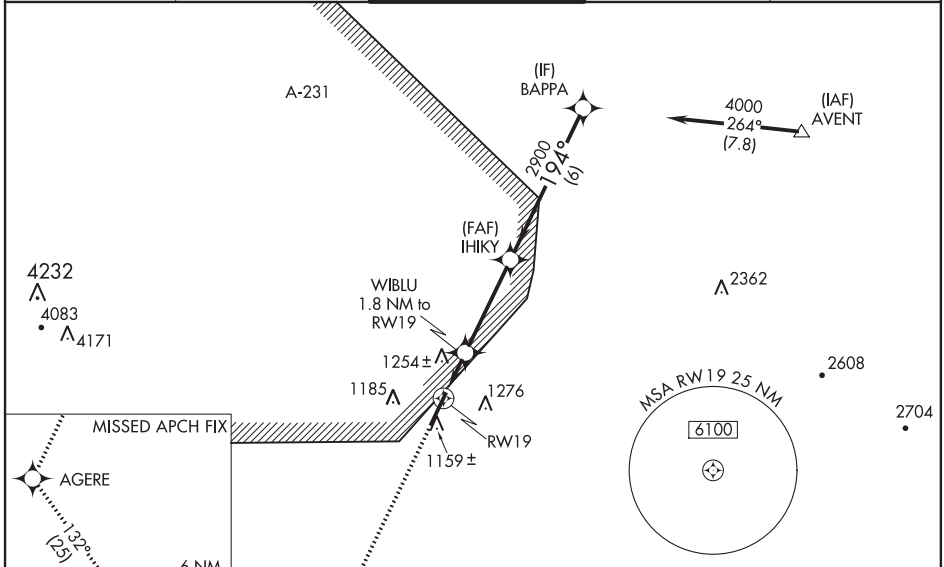
RNAV (GPS) RWY 19

GLENDALE MUNI (GEU)

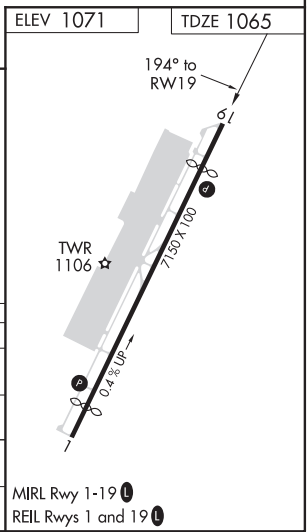
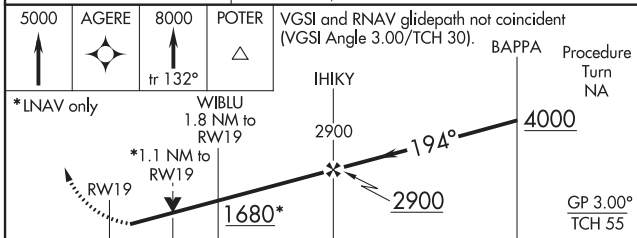
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Phoenix Sky Harbor Intl altimeter setting. Circling NA west of Rwy 1-19. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all DA 45 feet and MDA 60 feet and increase LNAV/VNAV all Cats and LNAV Cat C and D and Circling Cat C visibility ¼ mile.

⚠ MISSED APPROACH: Climb to 5000 direct AGERE then climb to 8000 on track 132° to POTER and hold.

ATIS 119.425	LUKE APP CON* 118.15 363.125	GLENDALE TOWER* 121.0 (CTAF) 0	GND CON 118.0	UNICOM 122.95
------------------------	--	---	-------------------------	-------------------------



ELEV 1071	TDZE 1065
-----------	-----------



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)	1540-1¼ 475 (500-1¼)	1540-1½ 475 (500-1½)
CIRCLING	1540-1 469 (500-1)	1660-1 589 (600-1)	1660-1½ 589 (600-½)	1660-2 589 (600-2)

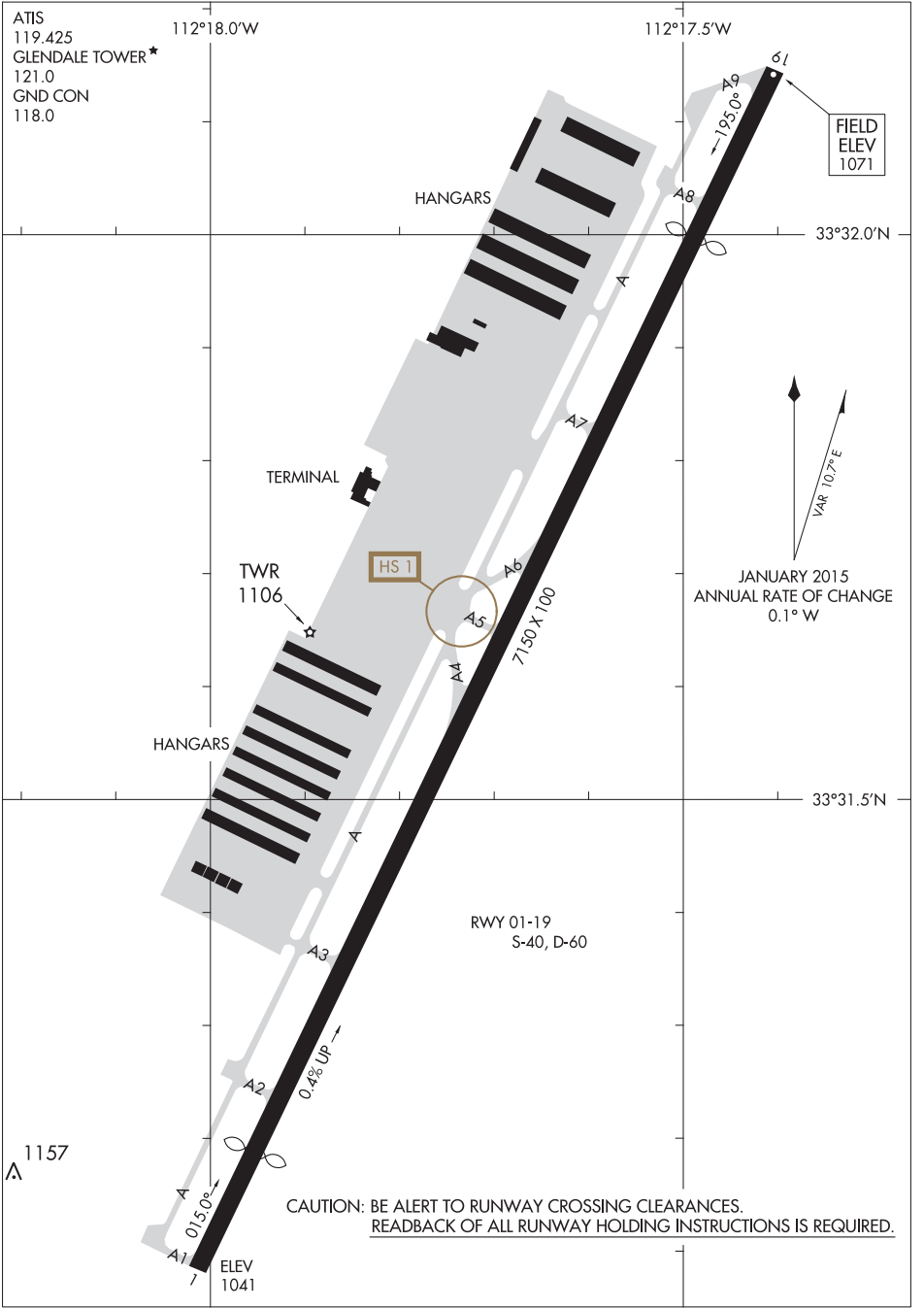
GLENDALE, ARIZONA
Amdt 2A 15DEC11

33°32'N-112°18'W

GLENDALE MUNI (GEU) RNAV (GPS) RWY 19

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(DRAKE2.DRK) 16315

DRAKE TWO DEPARTURE (OBSTACLE) (RNAV)

GLENDALE MUNI (G^EU)
GLENDALE, ARIZONA
SL-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



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.

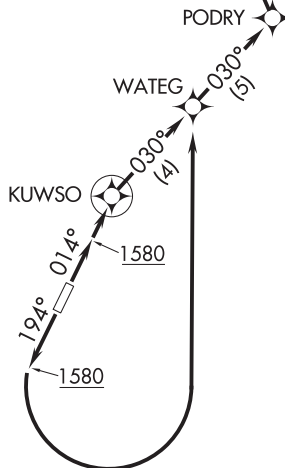
NOTE: Chart not to scale.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DRAKE TWO DEPARTURE (OBSTACLE) (RNAV)

(DRAKE2.DRK) 13NOV14

GLENDALE, ARIZONA
GLENDALE MUNI (G^EU)

(BNYRD5.BNYRD) 16315

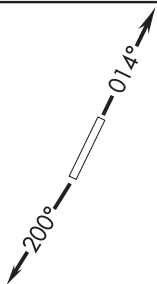
BNYRD FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (G^EU)
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



BNYRD



STANFIELD
TFD



TUCSON
TUS

- 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.

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.

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), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

GLENDALE, ARIZONA
GLENDALE MUNI (G^EU)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FTHLS FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (G^EU)
GLENDALE, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: ASSIGNED BY ATC

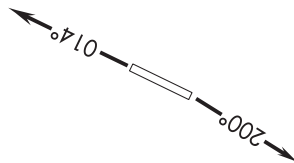
NOTE: RNAV 1.
 NOTE: Turbojets and turboprops only.
 NOTE: RADAR required.
 NOTE: GPS required.

NOTE: ABQ transition ATC assigned only.
 NOTE: Aircraft filing over ACH, LBL, ONNM, 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: For non-GPS equipped aircraft, PXR and TED DMEs must be operational.
 NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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

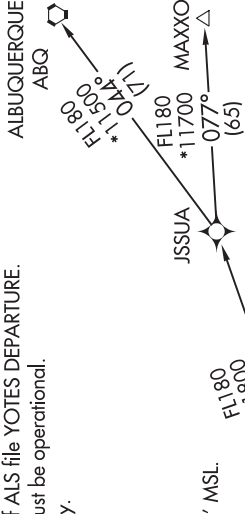
TAKEOFF OBSTACLE NOTES

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.

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 BROAK, then on track 059° to FTHLS. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS5.ABQ)
JINPR TRANSITION (FTHLS5.JINPR)
MAXXO TRANSITION (FTHLS5.MAXXO)

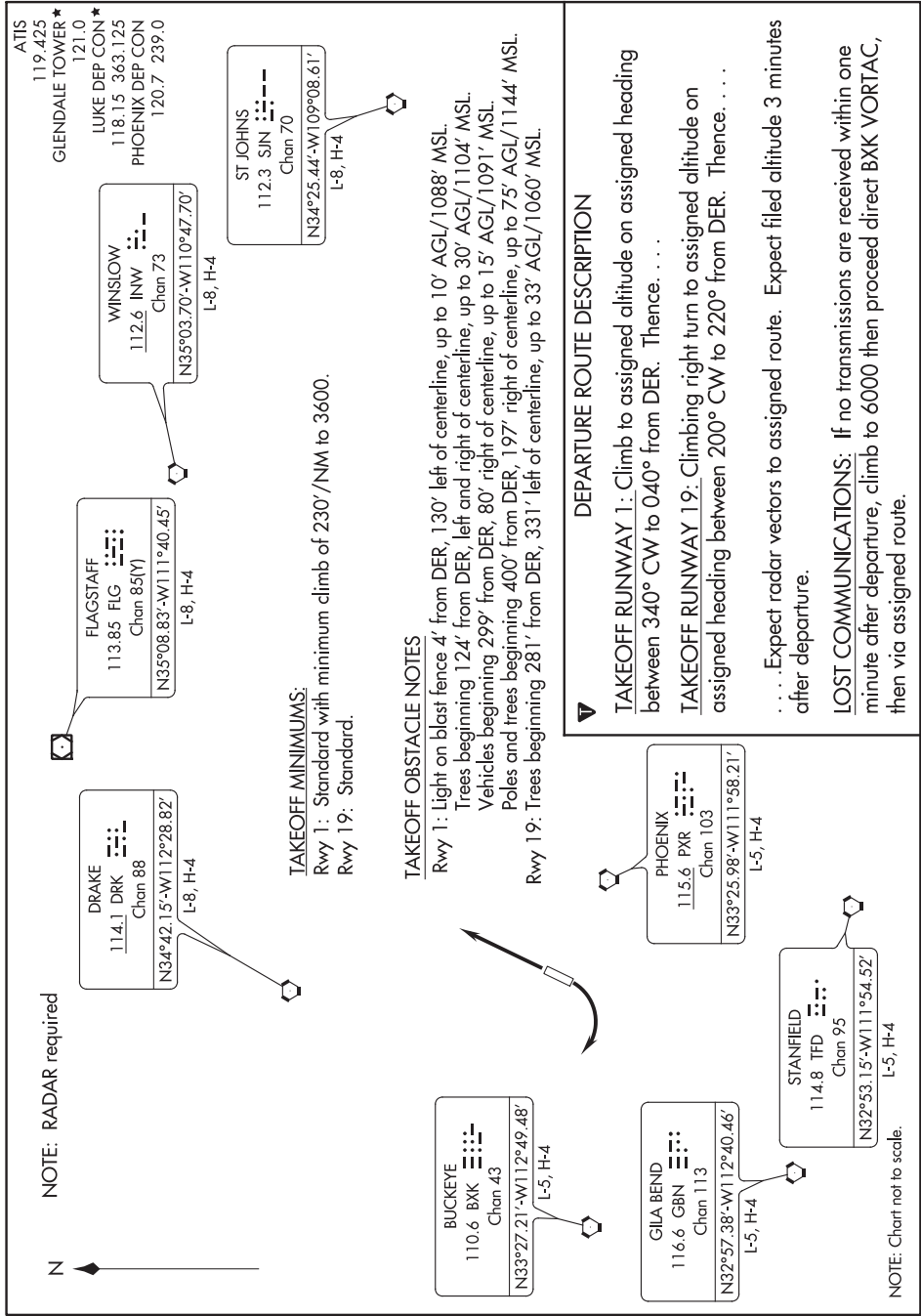
SW-4, 10 NOV 2016 to 05 JAN 2017

GLENDALE ONE DEPARTURE

SL-6915 (FAA)

GLENDALE MUNI (G^{ET}U)
GLENDALE, ARIZONA

7 10:10Z 01 9:10Z AON 01: 7 MS



GLENDALE ONE DEPARTURE

GLENDALE, ARIZONA
GLENDALE MUNI (G^{ET}U)

SW-4, 10 NOV 2016 to 05 JAN 2017

IZZ0 FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (GEU)
GLENDALE, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: ASSIGNED BY ATC

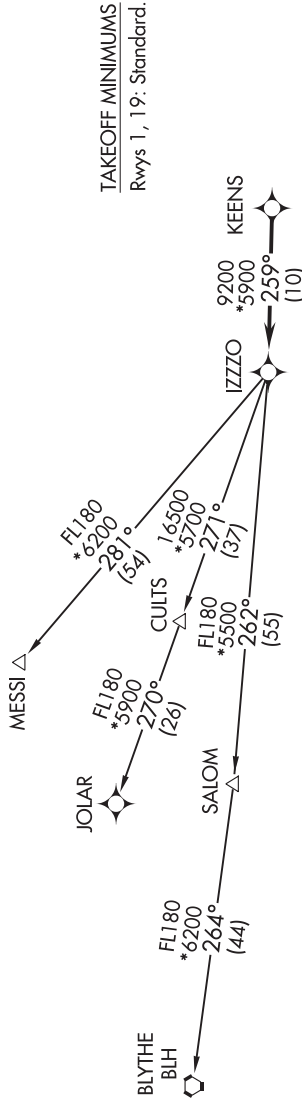
- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft requesting FL220 and below must file BLYTHE TRANSITION.
- NOTE: Turbojets landing LAX, file MESSI TRANSITION.
- NOTE: Aircraft landing other than LAX and turboprops landing at LAX: Requesting FL240 and above, file JOLAR TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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 KEENS, then on track 259° to IZZO. Then on (transition), expect filed altitude 3 minutes after departure.

- BLYTHE TRANSITION (IZZ05.BLH)
- JOLAR TRANSITION (IZZ05.JOLAR)
- MESSI TRANSITION (IZZ05.MESSI)



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.

NOTE: Chart not to scale.

IZZ0 FIVE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

**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. . . .

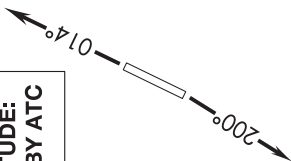
. . . expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH.
Then on (transition), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5..MOHAK)

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.

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

KATMN FIVE DEPARTURE (RNAV)

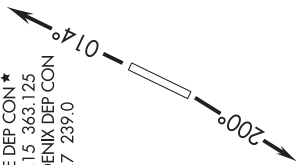
SL-6915 (FAA)

GLENDALE MUNI (G^{EAU})
GLENDALE, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

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



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .

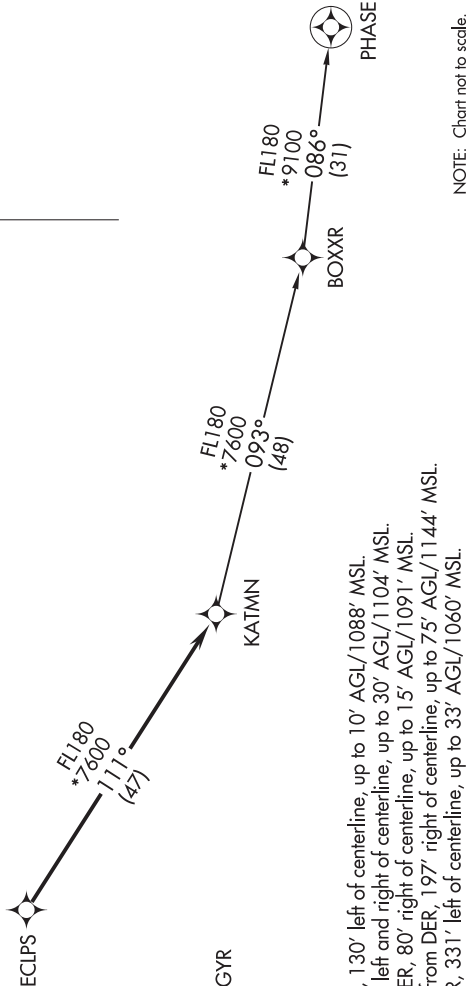
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . . expect RADAR vectors to ECLPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.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.

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.

NOTE: Chart not to scale.

KATMN FIVE DEPARTURE (RNAV)

(KATMN5.KATMN) 10NOV16

GLENDALE, ARIZONA
GLENDALE MUNI (G^{EAU})

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

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.

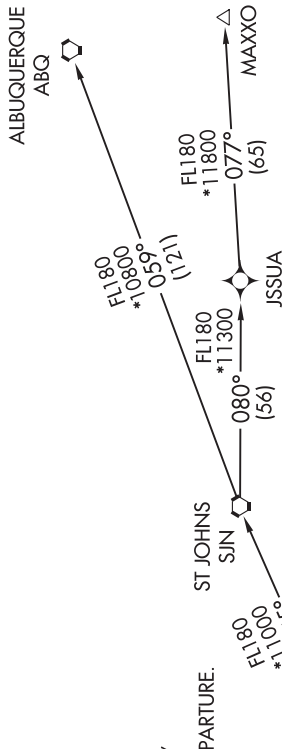
NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK, file LALUZ DEPARTURE.

NOTE: Aircraft filing over ACH, IBL, 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**

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.
Trees 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.



DEPARTURE ROUTE DESCRIPTION

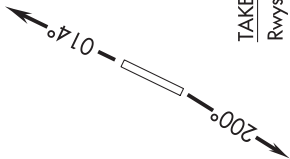
TAKEOFF RUNWAY 1: Climb heading 014° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAY 19: Climb heading 200° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to FORPE, then on track 055° to LALUZ. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SJN)



TAKEOFF MINIMUMS
Rwys 1, 19: Standard.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

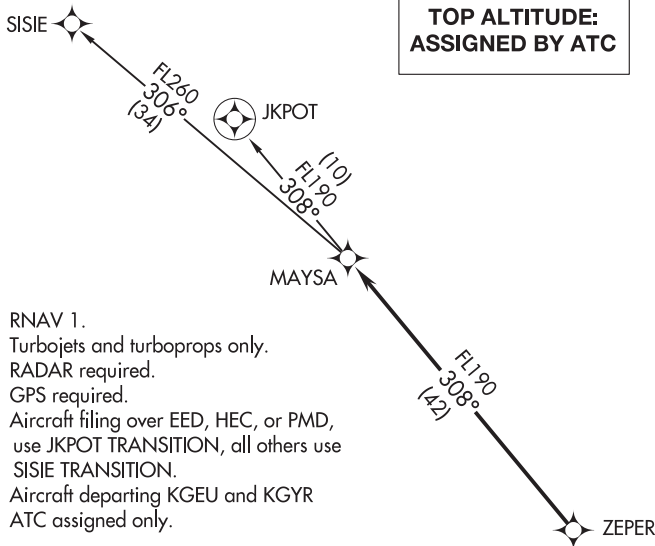
MAYSA FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (G^EU)
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**



- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

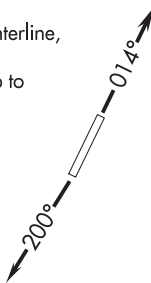
TAKEOFF OBSTACLE NOTES

- 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.

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 ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

MAYSA FIVE DEPARTURE (RNAV)
(MAYSA5.MAYSA) 10NOV16

GLENDALE, ARIZONA
GLENDALE MUNI (G^EU)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

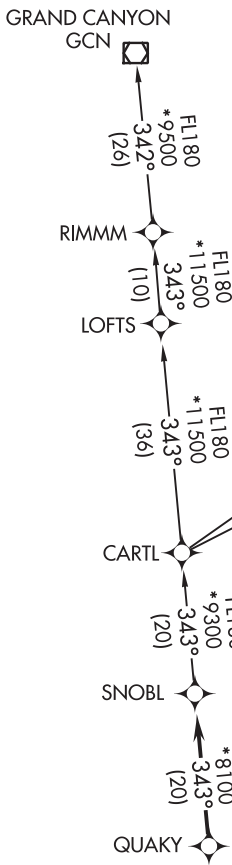
SNOBL FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (G'ETU)
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



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 1, 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.

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), expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL5.CARTL)

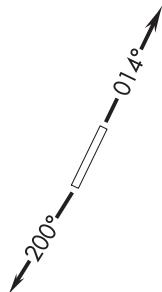
GRAND CANYON TRANSITION (SNOBL5.GCN)

JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)

NOTE: Chart not to scale.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-6915 (FAA)

GLENDALE MUNI (G^EU)
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

GRAND CANYON
GCN

YOOPR

JARPA

YOTES

MRBIL

- 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.

**TOP ALTITUDE:
ASSIGNED BY ATC**

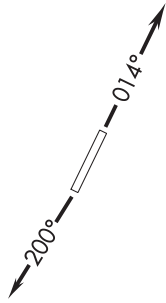
TAKEOFF MINIMUMS

Rwys 1, 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.

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 MRBIL, then on track 021° to YOTES. Then on (transition), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

GLENDALE, ARIZONA
GLENDALE MUNI (G^EU)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

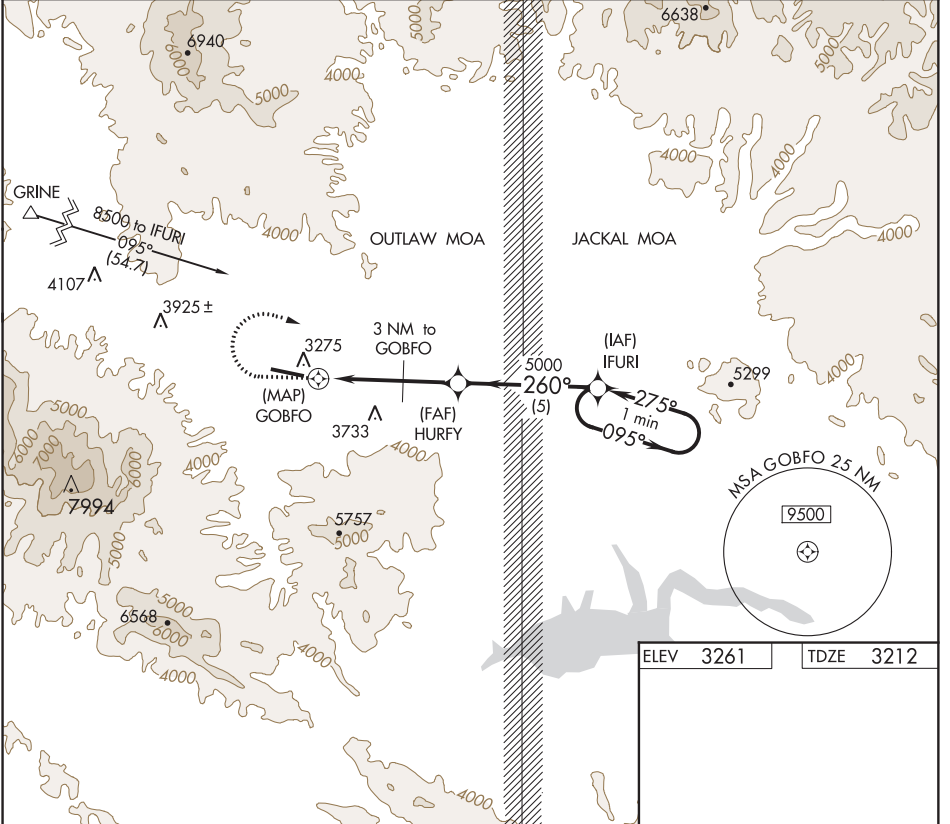
APP CRS 260°	Rwy Idg 6500
	TDZE 3212
	Apt Elev 3261

GPS RWY 27
SAN CARLOS APACHE (P13)

⚠ When local altimeter setting not received, procedure NA.
⚠ NA Helicopter visibility reduction below 3/4 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.

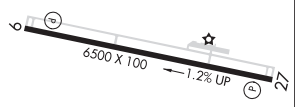
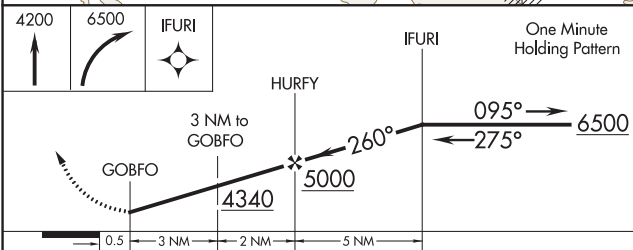
AWOS-3 120.075	ALBUQUERQUE CENTER 125.4 269.3	UNICOM 122.8 (CTAF)
--------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 3261	TDZE 3212
-----------	-----------



CATEGORY	A	B	C	D
LNAV	3780-1	568 (600-1)		NA
CIRCLING	3980-1 719 (800-1)	3980-1 1/4 719 (800-1 1/4)		NA

MIRL Rwy 9-27
REIL Rwy 9 and 27

(IZTIR2.IZTIR) 16315

IZTIR TWO DEPARTURE (OBSTACLE) (RNAV)

SAN CARLOS APACHE (P13)
GLOBE, ARIZONA

ALBUQUERQUE CENTER
125.4 269.3
PRESCOTT RADIO
122.3

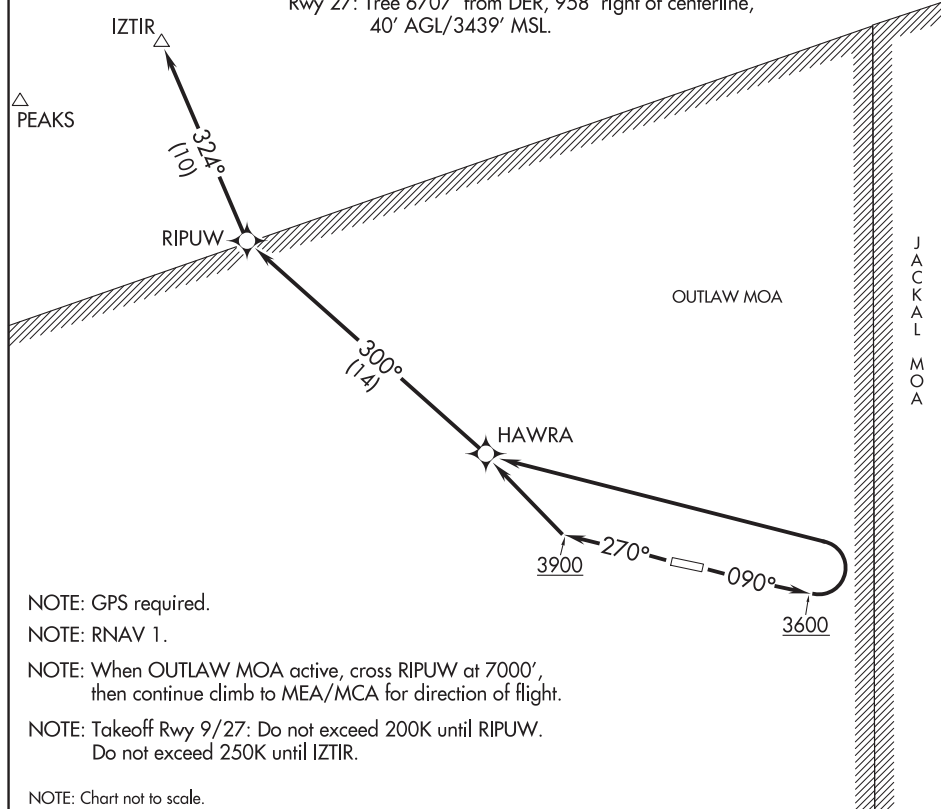
△ SALTS

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.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

IZTIR TWO DEPARTURE (OBSTACLE) (RNAV)

(IZTIR2.IZTIR) 10APR08

GLOBE, ARIZONA
SAN CARLOS APACHE (P13)

AIRPORT DIAGRAM

AL-6648 (FAA)

PHOENIX GOODYEAR (G_{YR})
GOODYEAR, ARIZONA

ATIS
118.35
GOODYEAR TOWER ★
120.1 239.3
GND CON
121.7

33°26'N

FIELD
ELEV
969



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

AIR CARRIER
PARKING

0.3% DOWN
207.4°

TRANSIENT
PARKING

TERMINAL

HANGARS

SW-4, 10 NOV 2016 to 05 JAN 2017

8500 X 150

A3

A4

A5

A6

A7

A8

A9

A10

A11

A12

A13

A14

A15

A16

A17

A18

A19

A20

A21

A22

A23

A24

A25

A26

A27

A28

A29

A30

A31

A32

A33

A34

A35

A36

A37

A38

A39

A40

A41

A42

A43

A44

A45

A46

A47

A48

A49

A50

A51

A52

A53

A54

A55

A56

A57

A58

A59

A60

A61

A62

A63

A64

A65

A66

A67

A68

A69

A70

A71

A72

A73

A74

A75

A76

A77

A78

A79

A80

A81

A82

A83

A84

A85

A86

A87

A88

A89

A90

A91

A92

A93

A94

A95

A96

A97

A98

A99

A100

A101

A102

A103

A104

A105

A106

A107

A108

A109

A110

A111

A112

A113

A114

A115

A116

A117

A118

A119

A120

A121

A122

A123

A124

A125

A126

A127

A128

A129

A130

A131

A132

A133

A134

A135

A136

A137

A138

A139

A140

A141

A142

A143

A144

A145

A146

A147

A148

A149

A150

A151

A152

A153

A154

A155

A156

A157

A158

A159

A160

A161

A162

A163

A164

A165

A166

A167

A168

A169

A170

A171

A172

A173

A174

A175

A176

A177

A178

A179

A180

A181

A182

A183

A184

A185

A186

A187

A188

A189

A190

A191

A192

A193

A194

A195

A196

A197

A198

A199

A200

A201

A202

A203

A204

A205

A206

A207

A208

A209

A210

A211

A212

A213

A214

A215

A216

A217

A218

A219

A220

A221

A222

A223

A224

A225

A226

A227

A228

A229

A230

A231

A232

A233

A234

A235

A236

A237

A238

A239

A240

A241

A242

A243

A244

A245

A246

A247

A248

A249

A250

A251

A252

A253

A254

A255

A256

A257

A258

A259

A260

A261

A262

A263

A264

A265

A266

A267

A268

A269

A270

A271

A272

A273

A274

A275

A276

A277

A278

A279

A280

A281

A282

A283

A284

A285

A286

A287

A288

A289

A290

A291

A292

A293

A294

A295

A296

A297

A298

A299

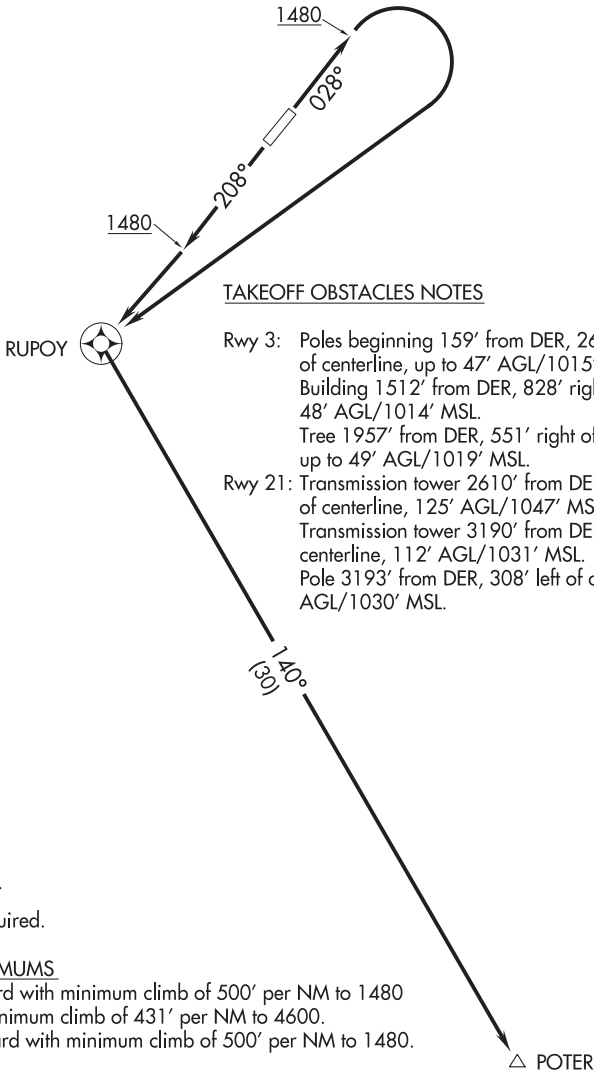
A300

A301

A302

A303

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 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

(BNYRD5.BNYRD) 16315

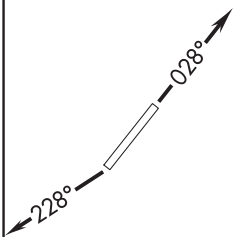
BNYRD FIVE DEPARTURE (RNAV)

SL-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

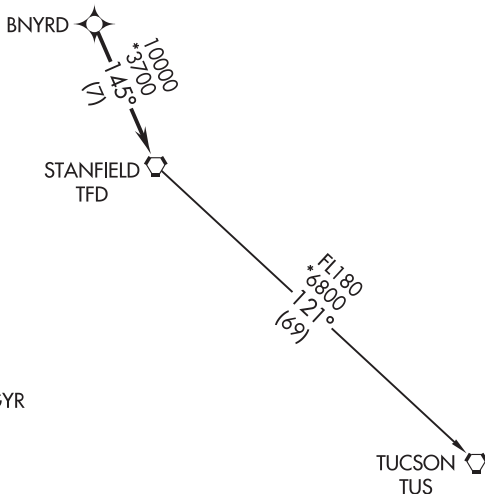


TAKEOFF OBSTACLE NOTES

- 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.

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), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

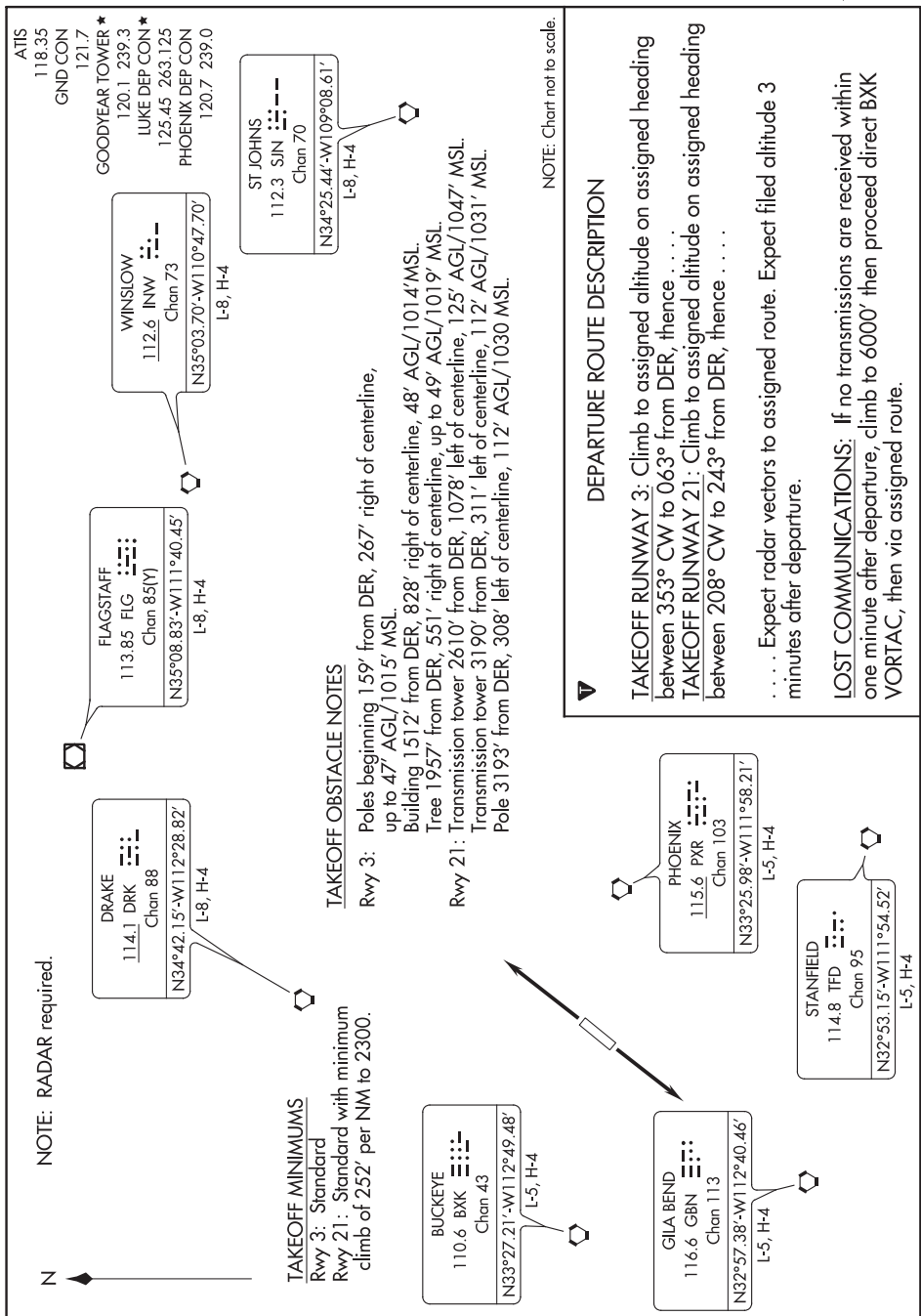
GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

GOODYEAR TWO DEPARTURE

SL-6648 (FAA)

PHOENIX GOODYEAR (G·Y·R)
GOODYEAR, ARIZONA

2017 JAN 05 10:01:09Z VON 01 'WWS



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 BXX VORTAC, then via assigned route.

GOODYEAR TWO DEPARTURE

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (G·Y·R)

SW-4, 10 NOV 2016 to 05 JAN 2017

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: 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 JOLAR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

**TOP ALTITUDE:
ASSIGNED BY ATC**



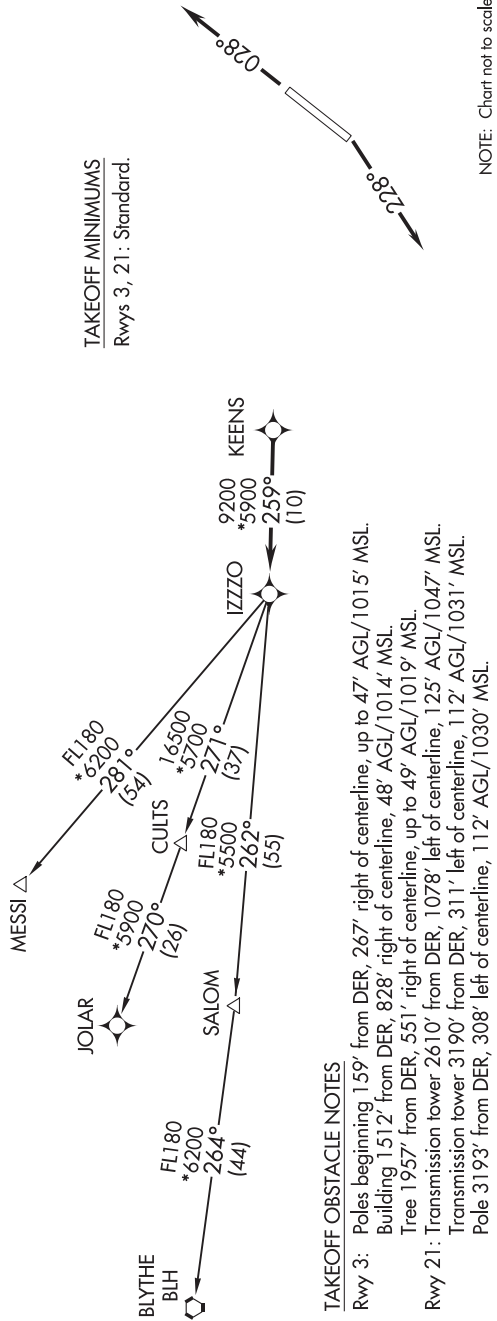
DEPARTURE ROUTE DESCRIPTION

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 KEENS, then on track 259° to IZZZO. Then on (transition), expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO5.BLH)
JOLAR TRANSITION (IZZZO5.JOLAR)
MESSI TRANSITION (IZZZO5.MESSI)

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 JOLAR TRANSITION.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



SW-4, 10 NOV 2016 to 05 JAN 2017

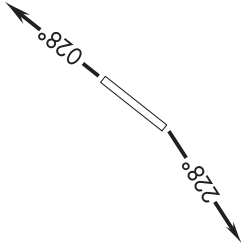
SW-4 10 NOV 2016 to 05 JAN 2017

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 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.

**TOP ALTITUDE:
ASSIGNED BY ATC**



DEPARTURE ROUTE DESCRIPTION

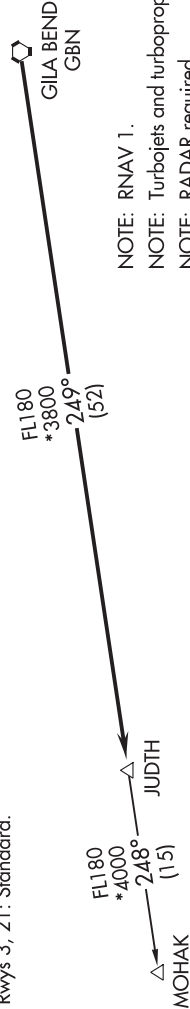
TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence

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), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5.MOHAK)

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

7 WS 10 NOV 2016 10:01:47

**TOP ALTITUDE:
ASSIGNED BY ATC**

- ATIS 118.35
- GND CON 120.1
- 121.7
- GOODYEAR TOWER* 120.1 239.3
- LUKE DEP CON* 125.45 263.125
- PHOENIX DEP CON 120.7 239.0

DEPARTURE ROUTE DESCRIPTION

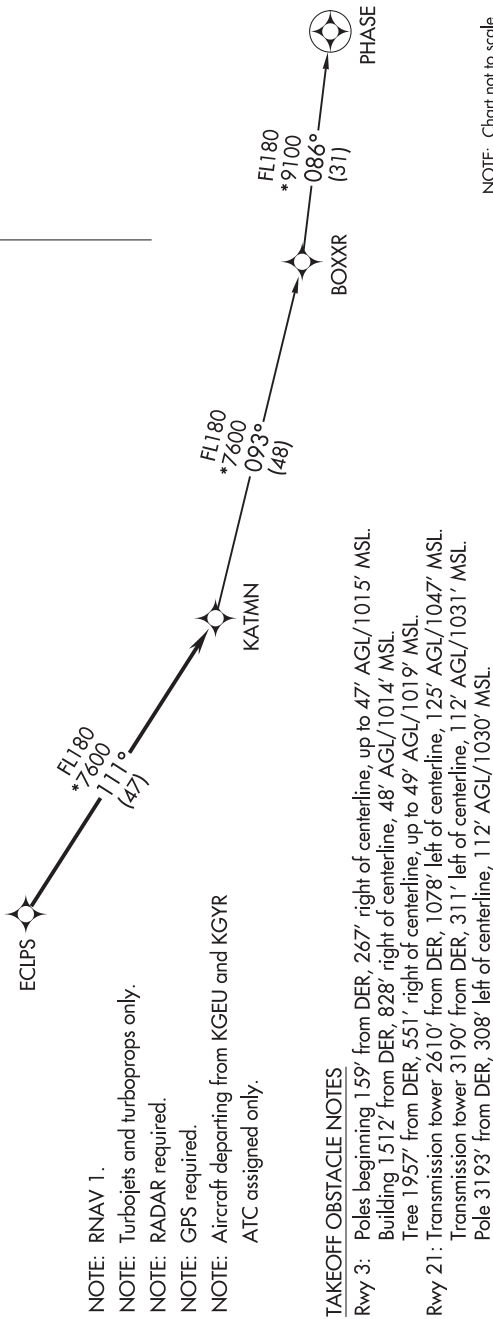
TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence. . . .

. . . . expect RADAR vectors to ECLPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.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.

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.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

LALUZ FIVE DEPARTURE (RNAV)

SL-6648 (FAA)

PHOENIX GOODYEAR (G·Y·R)
GOODYEAR, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

- Rwy 3: Poles beginning 159' from DER, 267' right of centerline, up to 47' AGL/101.5' MSL. Building 1512' from DER, 828' right of centerline, 48' AGL/101.4' MSL. Tree 1957' from DER, 551' right of centerline, up to 49' AGL/101.9' MSL.
- Rwy 21: Transmission tower 2610' from DER, 1078' left of centerline, 125' AGL/104.7' MSL. Transmission tower 3190' from DER, 311' left of centerline, 112' AGL/103.1' MSL. Pole 3193' from DER, 308' left of centerline, 112' AGL/103.0' MSL.

- 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.

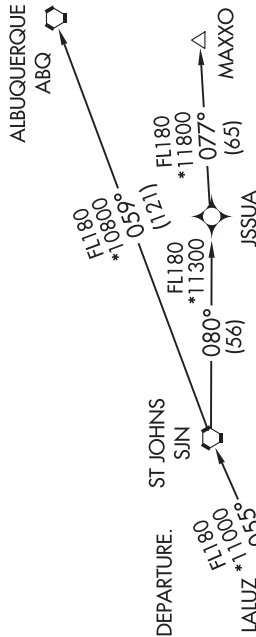
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS, file YOTES DEPARTURE.

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



DEPARTURE ROUTE DESCRIPTION

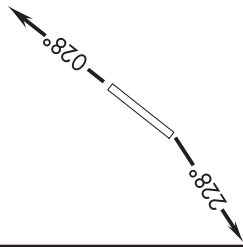
- TAKEOFF RUNWAY 3: Climb heading 028° or as assigned by ATC, thence
- TAKEOFF RUNWAY 21: Climb heading 228° or as assigned by ATC, thence

. expect RADAR vectors to FORPE, then on track 055° to LALUZ. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SJN)



NOTE: Chart not to scale.

TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

LALUZ FIVE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

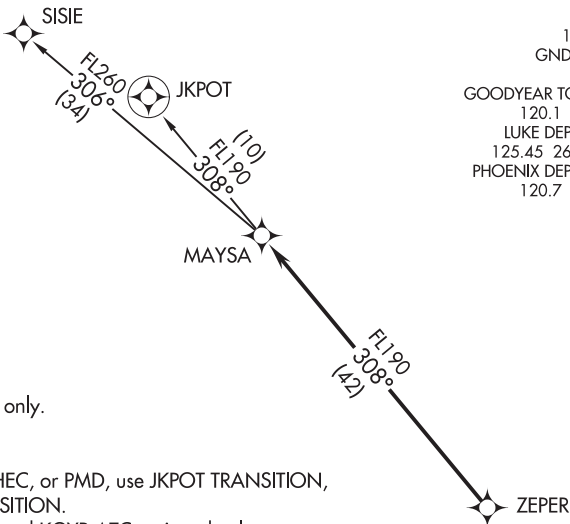
MAYSA FIVE DEPARTURE (RNAV)

SL-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

- NOTE: RNAV 1.
 NOTE: Turbopets and turboprops only.
 NOTE: RADAR required.
 NOTE: GPS required.
 NOTE: Aircraft filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
 NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

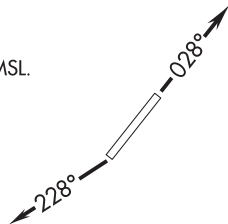
TAKEOFF OBSTACLE NOTES

- 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.

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 ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

MAYSA FIVE DEPARTURE (RNAV)

(MAYSA5.MAYSA) 10NOV16

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (GYR)

SW-4, 10 NOV 2016 to 05 JAN 2017

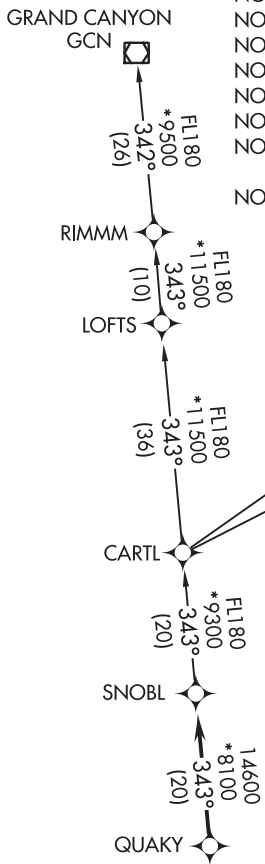
SW-4, 10 NOV 2016 to 05 JAN 2017

(SNOBL5.SNOBL) 16315

SNOBL FIVE DEPARTURE (RNAV)

SL-6648 (FAA)

PHOENIX GOODYEAR (G·Y·R)
GOODYEAR, ARIZONA



- 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 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**

TAKEOFF MINIMUMS
 Rwy 3, 21: Standard.

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.

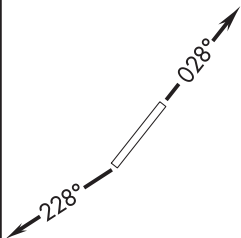
DEPARTURE ROUTE DESCRIPTION

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), expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL5.CARTL)
GRAND CANYON TRANSITION (SNOBL5.GCN)
JARPA TRANSITION (SNOBL5.JARPA)
RIMMM TRANSITION (SNOBL5.RIMMM)
YOOPR TRANSITION (SNOBL5.YOOPR)



NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SNOBL FIVE DEPARTURE (RNAV)

(SNOBL5.SNOBL) 10NOV16

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (G·Y·R)

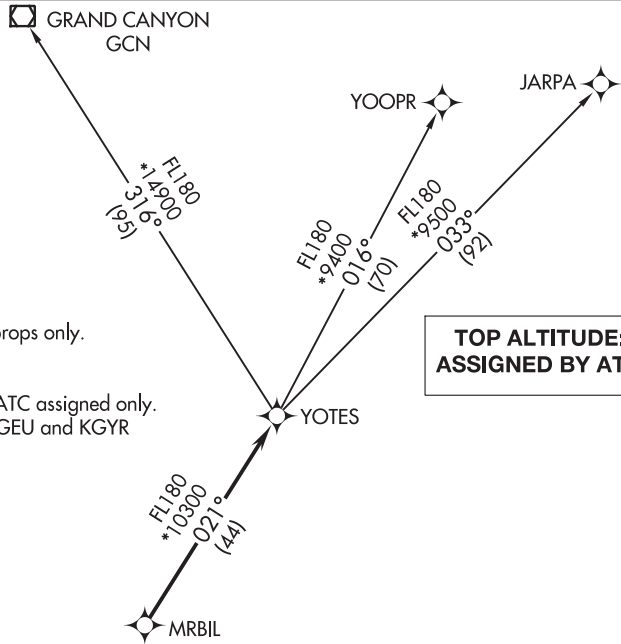
(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-6648 (FAA)

PHOENIX GOODYEAR (G·Y·R)
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: GCN TRANSITION ATC assigned only.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

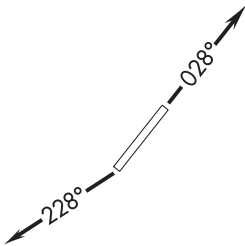
Rwys 3, 21: Standard.

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.

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), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

GOODYEAR, ARIZONA
PHOENIX GOODYEAR (G·Y·R)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC I-GCN 108.9	APP CRS 027°	Rwy Idg 8999
		TDZE 6556
		Apt Elev 6609

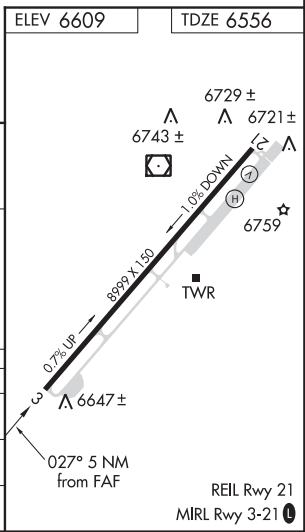
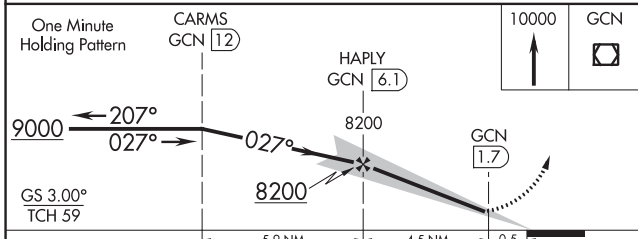
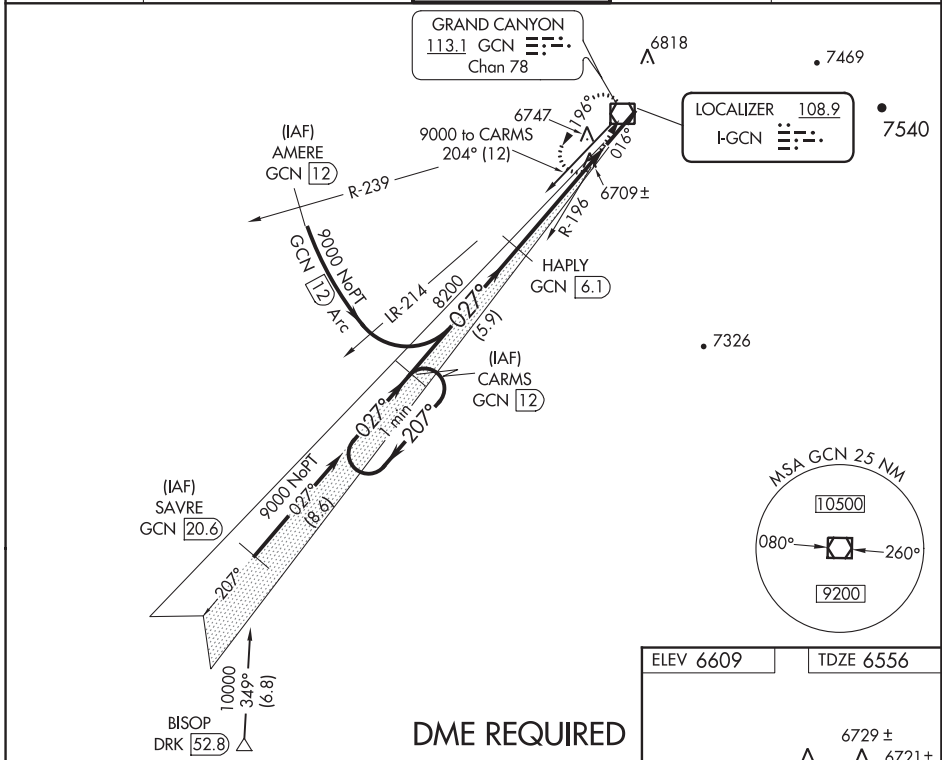
ILS or LOC/DME RWY 3

GRAND CANYON NATIONAL PARK (GCN)

⚠ DME from GCN VOR/DME. Simultaneous reception of I-GCN and GCN DME required.

MISSED APPROACH: Climb to 10000 direct GCN VOR/DME and hold.

ATIS 124.3	LOS ANGELES CENTER 124.85 319.2	CANYON TOWER * 119.0 (CTAF) 0	GND CON 121.9	UNICOM 122.95
----------------------	---	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
S-ILS 3	6765-¾ 209 (200-¾)			
S-LOC 3	6960-1	404 (400-1)	6960-1¼	404 (400-1¼)
CIRCLING	7140-1	531 (600-1)	7160-1½	7220-2 611 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 027°	Rwy Idg 8999
	TDZE 6556
	Apt Elev 6609

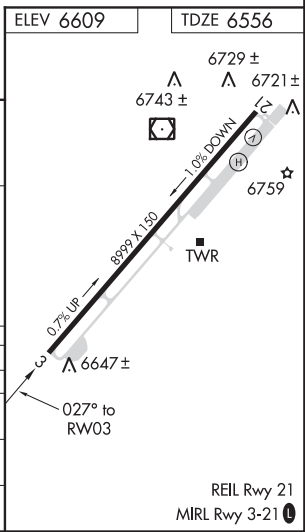
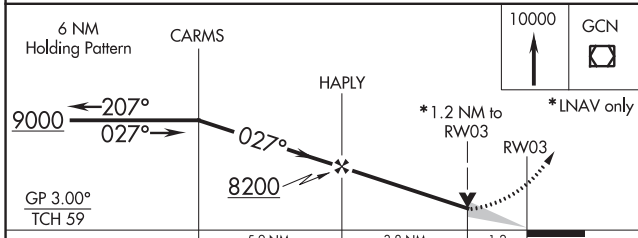
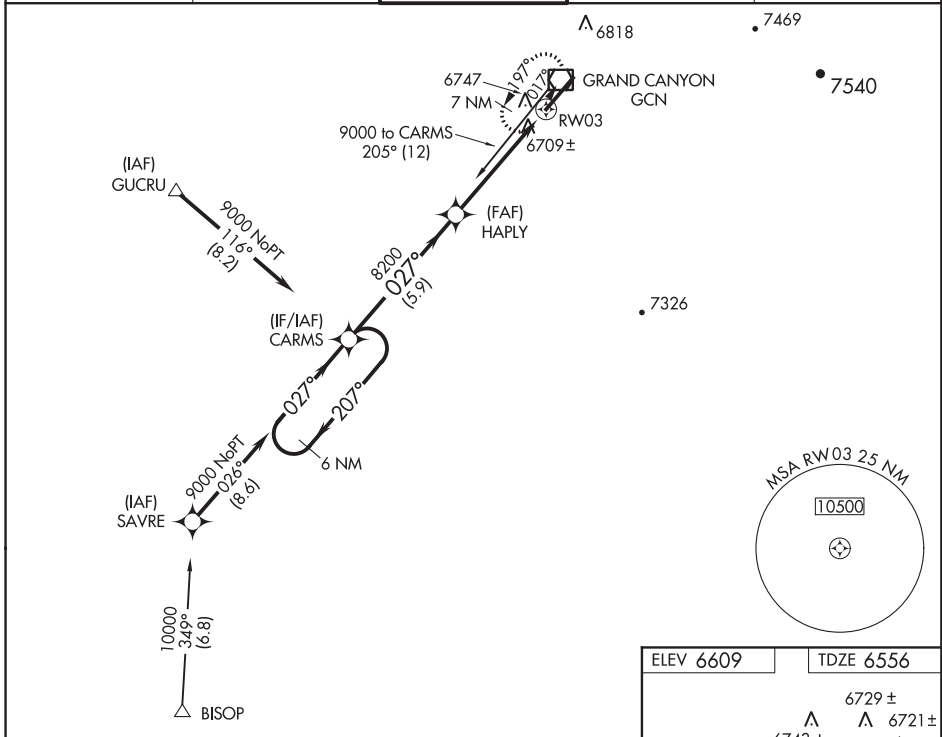
RNAV (GPS) RWY 3

GRAND CANYON NATIONAL PARK (GCN)

NA DME/DME RNP-0.3 NA. Inoperative table does not apply to LNAV Cat C. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-15°F) or above 43°C (110°F).

MISSED APPROACH: Climb to 10000 direct GCN VOR/DME and hold.

ATIS 124.3	LOS ANGELES CENTER 124.85 319.2	CANYON TOWER* 119.0(CTAF) 0	GND CON 121.9	UNICOM 122.95
----------------------	---	---------------------------------------	-------------------------	-------------------------



CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	6960-1½		404 (400-1½)	
LNAV MDA	6960-1 404 (400-1)		6960-1¼ 404 (400-1¼)	
CIRCLING	7140-1½ 531 (600-1½)		7160-1½ 551 (600-1½) 7220-2 611 (700-2)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

REIL Rwy 21
MIRL Rwy 3-21

GRAND CANYON, ARIZONA

AL-5381 (FAA)

16119

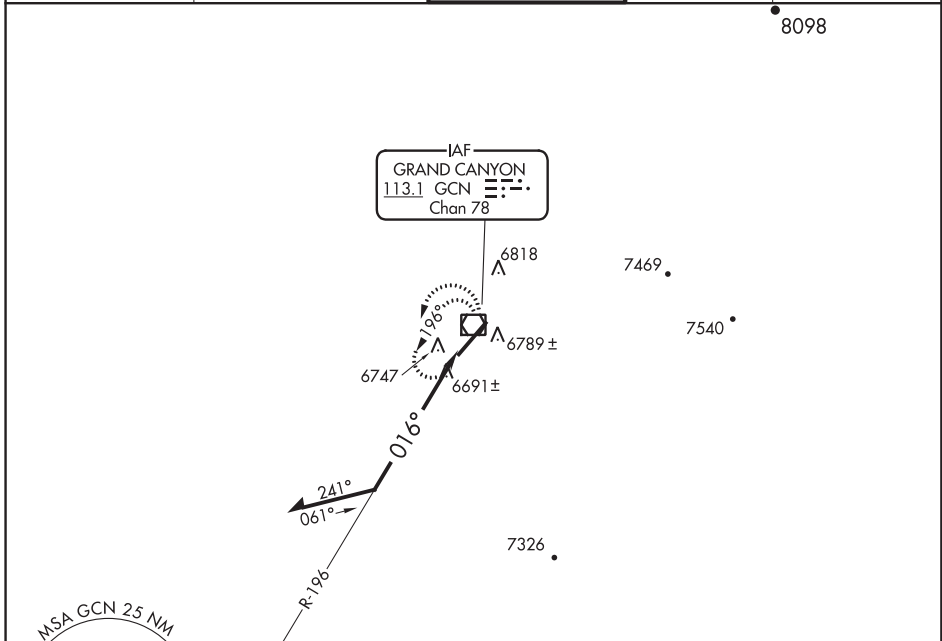
VOR/DME GCN 113.1 Chan 78	APP CRS 016°	Rwy Idg 8999 TDZE 6556 Apt Elev 6609
--	------------------------	---

VOR RWY 3

GRAND CANYON NATIONAL PARK (GCN)

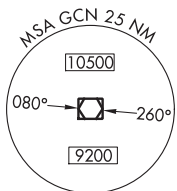
▽ MISSED APPROACH: Climb to 8800 in GCN VOR/DME holding pattern.

ATIS 124.3	LOS ANGELES CENTER 124.85 319.2	CANYON TOWER ★ 119.0 (CTAF) 0	GND CON 121.9	UNICOM 122.95
----------------------	---	---	-------------------------	-------------------------



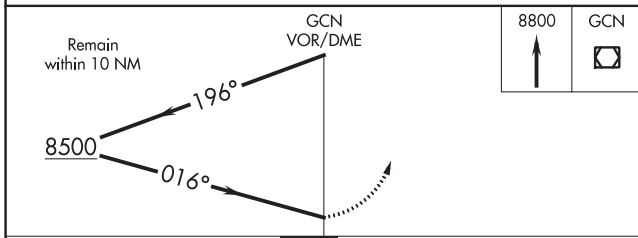
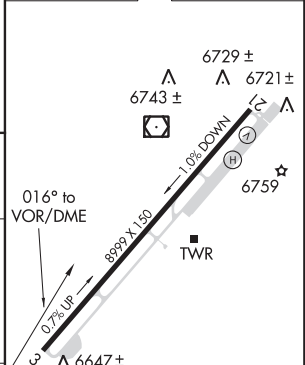
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



Descend in GCN VOR/DME holding pattern to 11000 before commencing procedure turn.

ELEV 6609	TDZE 6556
-----------	-----------



CATEGORY	A	B	C	D
S-3	7100-1	544 (600-1)	7100-1½ 544 (600-1½)	7100-1¾ 544 (600-1¾)
CIRCLING	7140-1	531 (600-1)	7160-1½ 551 (600-1½)	7220-2 611 (700-2)

REIL Rwy 21
MIRL Rwy 3-21 0

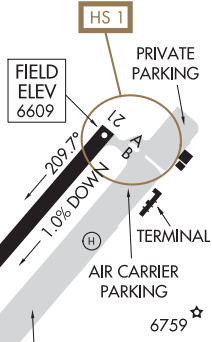
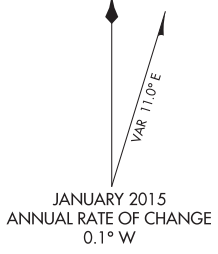
GRAND CANYON, ARIZONA
Amdt 5B 28APR16

35°57'N-112°09'W

GRAND CANYON NATIONAL PARK (GCN) VOR RWY 3

ATIS
 124.3
 CANYON TOWER ★
 119.0
 GND CON
 121.9

35°58'N



8999 X 130



35°57'N



RWY 03-21
 PCN 52 F/C/W/T
 S-88, D-108, 2S-137, 2D-160

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

112°09'W

112°08'W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(GRAND3.BISOP) 16203

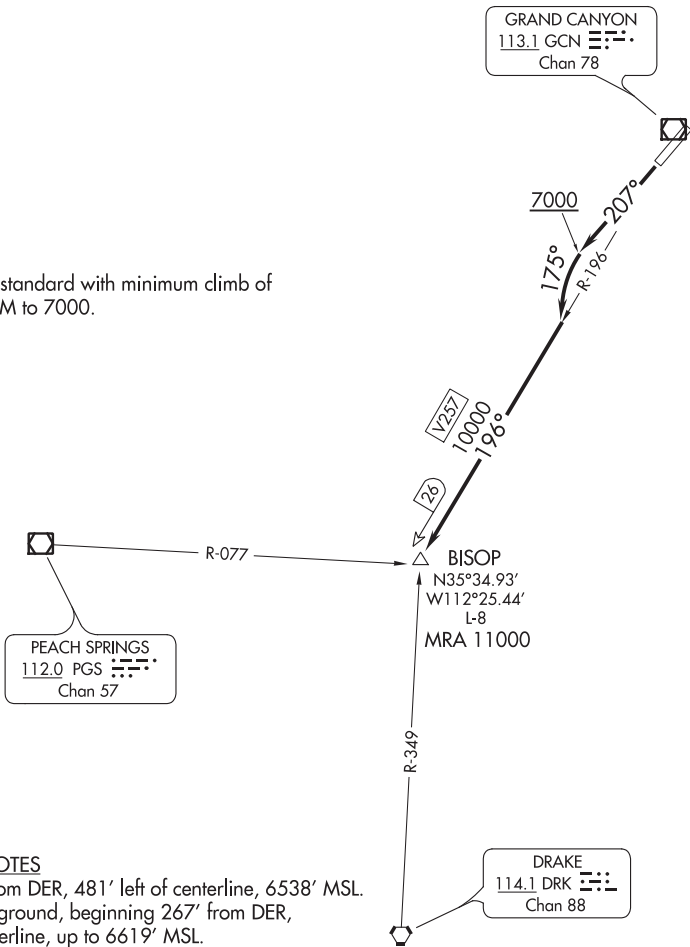
GRAND THREE DEPARTURE (OBSTACLE)

GRAND CANYON NATIONAL PARK (GCN)
SL-5381 (FAA) GRAND CANYON, ARIZONA

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.
RWY 21: 200-1¼ or standard with minimum climb of 309' per NM to 7000.



TAKEOFF OBSTACLE NOTES

Rwy 21: Ground 186' from DER, 481' left of centerline, 6538' MSL.
 Tree, bush and ground, beginning 267' from DER, 499' left of centerline, up to 6619' MSL.
 Trees and pole, beginning 1203' from DER, 796' right of centerline, up to 6628' MSL.
 Trees 2093' from DER, 821' left of centerline, up to 6639' MSL.
 Trees 2922' from DER, left and right of centerline, up to 6677' MSL.
 Trees 3848' from DER, 929' left of centerline, up to 6686' MSL.
 Trees 4098' from DER, 847' left of centerline, up to 6687' MSL.
 Trees 5403' from DER, 1004' left of centerline, up to 6691' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: NA - Environmental.

TAKEOFF RUNWAY 21: Climb heading 207° to 7000, then turn left heading 175° to intercept GCN VOR/DME R-196 to BISOP INT. Expect filed altitude 10 minutes after departure.

GRAND THREE DEPARTURE (OBSTACLE) GRAND CANYON, ARIZONA
 (GRAND3.BISOP) 21JUL16 GRAND CANYON NATIONAL PARK (GCN)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 008°	Rwy Idg 4199
	TDZE 5999
	Apt Elev 6002

GPS RWY 1

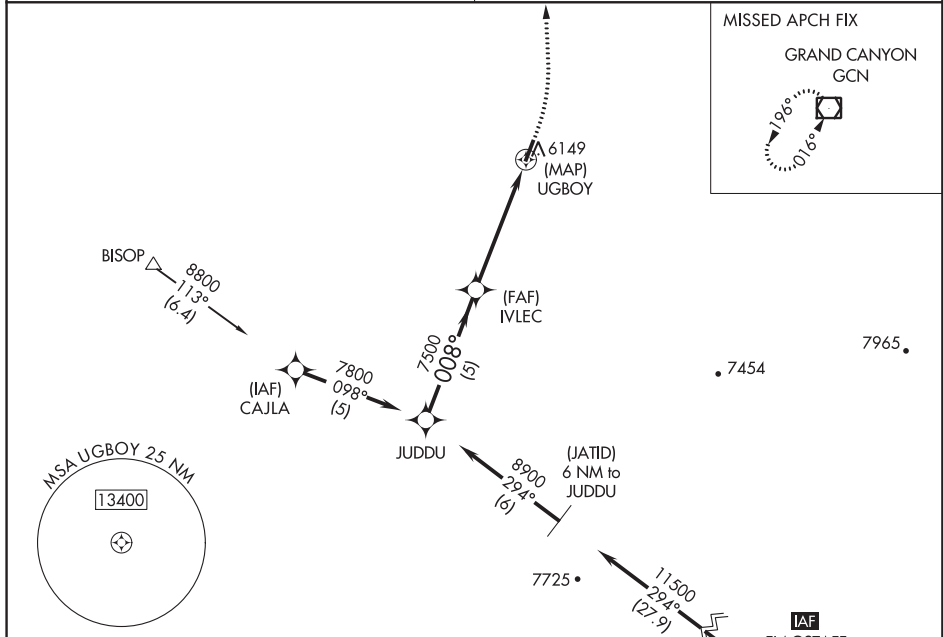
VALLE (40G)

IAF ARM APPROACH MODE PRIOR TO IAF.
NA Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized.

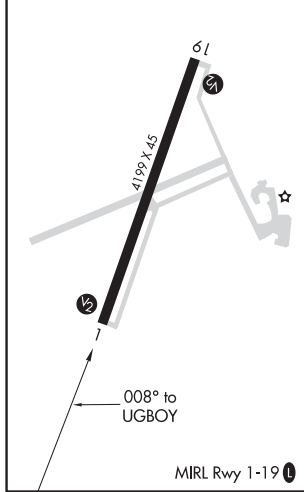
MISSED APPROACH: Climbing left turn to 10000 direct to GCN VOR/DME and hold.

LOS ANGELES CENTER
124.85 319.2

UNICOM
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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

GPS RWY 19

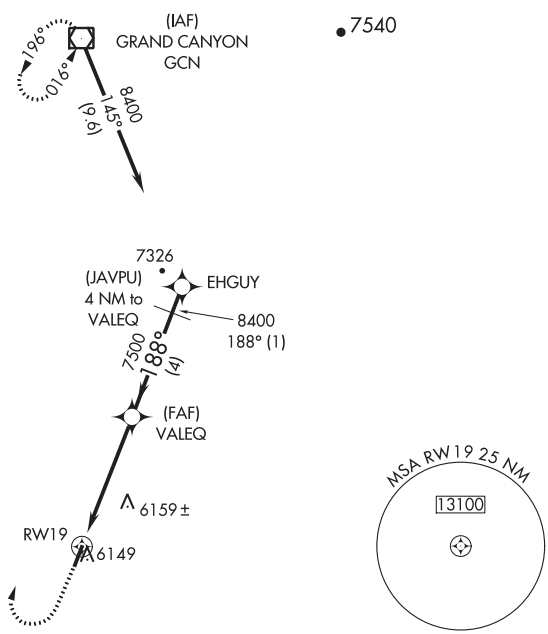
VALLE (40G)

APP CRS 188°	Rwy Idg TDZE Apt Elev	4199 5996 6002
------------------------	-----------------------------	---

NA Obtain local altimeter setting on CTAF; when not received use Grand Canyon National Park altimeter setting. When neither received procedure not authorized.

MISSED APPROACH: Climb to 7000 then climbing right turn to 10000 direct GCN VOR/DME and hold.

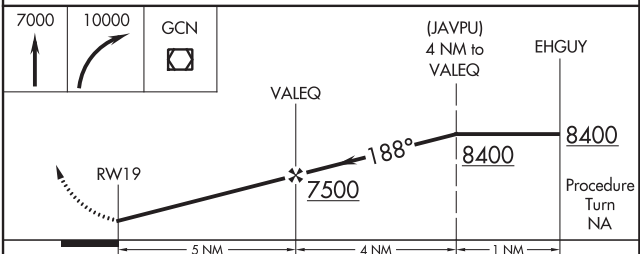
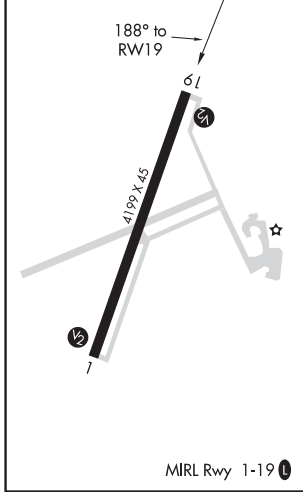
LOS ANGELES CENTER 124.85 319.2	UNICOM 122.8 (CTAF)
---	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 6002	TDZE 5996
-----------	-----------



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

APP CRS 179°	Rwy Idg TDZE Apt Elev	N/A N/A 5637
------------------------	-----------------------------	---

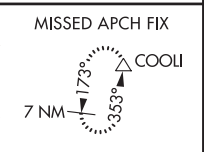
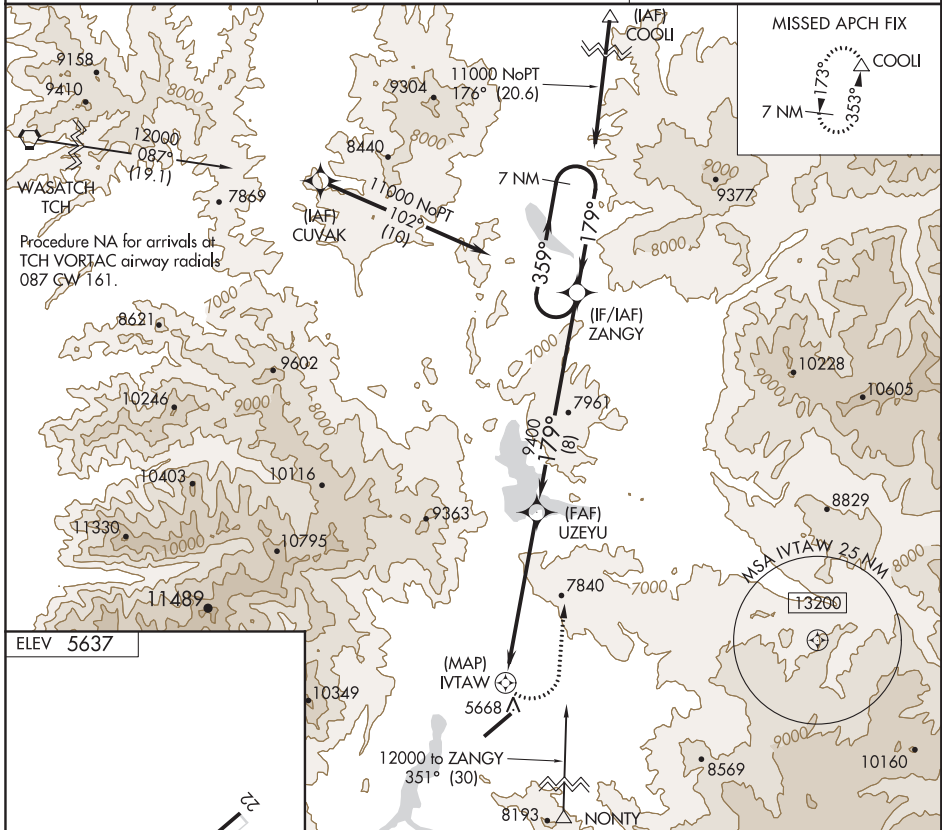
RNAV (GPS)-A

HEBER CITY MUNI-RUSS MCDONALD FIELD (36U)

NA When local altimeter setting not received, procedure NA. Circling NA southeast of Rwy 4-22. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM not authorized. Night landing: Rwy 4 NA.

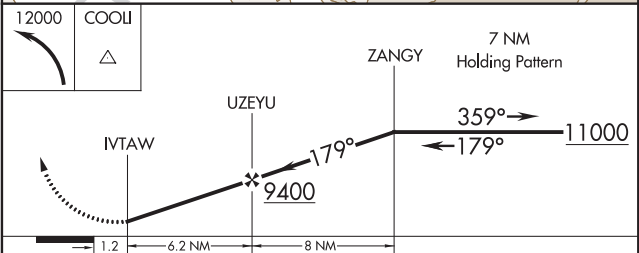
MISSED APPROACH: Climbing left turn to 12000 direct COOLI and hold.

AWOS-3 124.825	SALT LAKE CITY CENTER 119.95 377.15	UNICOM 122.8 (CTAF)
--------------------------	---	-------------------------------



ELEV 5637

MIRL Rwy 4-22



CATEGORY	A	B	C	D
CIRCLING	8220-1 ³ / ₈ 2583 (2600-1 ³ / ₈)	8220-1 ¹ / ₂ 2583 (2600-1 ¹ / ₂)	8220-3 2583 (2600-3)	NA

RNAV (GPS)-A

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(COOLI4.COOLI) 16315

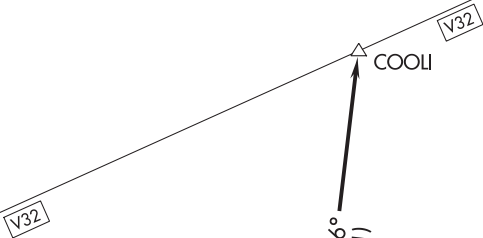
140
SL-6969 (FAA)

HEBER CITY MUNI-RUSS MCDONALD FIELD (36U)

COOLI FOUR DEPARTURE (RNAV)

HEBER, UTAH

SALT LAKE CITY CENTER
119.95 377.15
CTAF 122.8



TAKEOFF MINIMUMS

Rwy 4: Standard with minimum climb of 655' per NM to 8700.

Rwy 22: NA.

TAKEOFF OBSTACLE NOTES

Rwy 4: Multiple trees, bushes, poles, buildings, vehicles, terrain, sign, fence, and wind sock beginning 20' from DER, left and right of centerline, up to 100' AGL/5708' MSL.

NOTE: Direct entry to V32 southwest bound from COOLI not authorized.

NOTE: GPS required.

NOTE: RNAV 1.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 4: Climb heading 039° to 6200, then climb to 12000 (or assigned altitude) direct OKABE and on track 039° to EXOWI, then on depicted route to COOLI.

COOLI FOUR DEPARTURE (RNAV)

(COOLI4.COOLI) 29MAY14

HEBER, UTAH

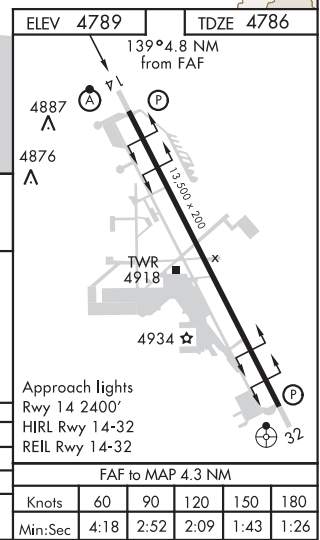
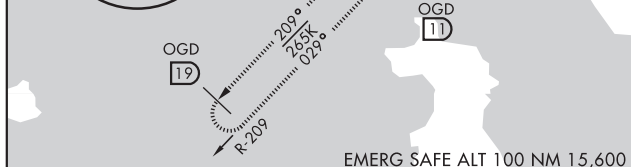
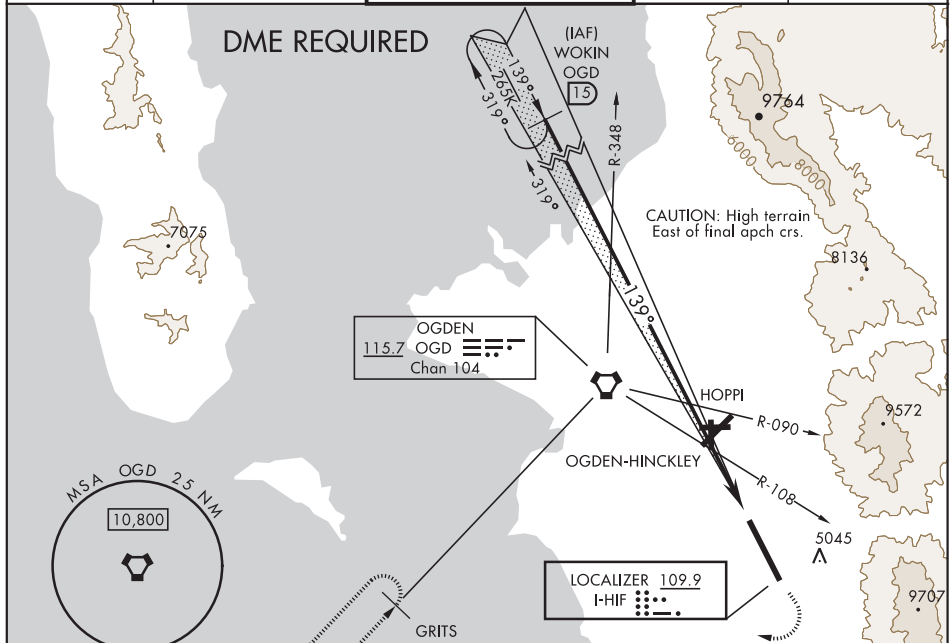
HEBER CITY MUNI-RUSS MCDONALD FIELD (36U)

OGDEN, UTAH

ILS or LOC Z RWY 14

LOC I-HIF 109.9	APCH CRS 139°	Rwy Idg 13,500 TDZE 4786 Arprt Elev 4789	AL-296 [USAF]	HILL AFB (KHIF)
▼ * When ALS inop, increase RVR to 40 and vis to 3/4 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 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
------------------------------	---	------------------------------------	-------------------------------	--------------------------------



WOKIN (15)	OGD R-348	5500	7900	GRITS (11)
8600	7600	↑	tr 285°	↑ LOC only
GS 2.80° TCH 57	6300	OGD R-108		
	6289			
	5700			
	4.3 NM	.5 NM		

CATEGORY	A	B	C	D	E
S-ILS 14 *	4986/24 200 (200-1/2)				
S-LOC 14 **	5060/24	274 (300-1/2)	5060/40	274 (300-3/4)	
CIRCLING ***	5240-1	451 (500-1)	5240-1 1/2 451 (500-1 1/2)	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, 10 NOV 2016 to 05 JAN 2017

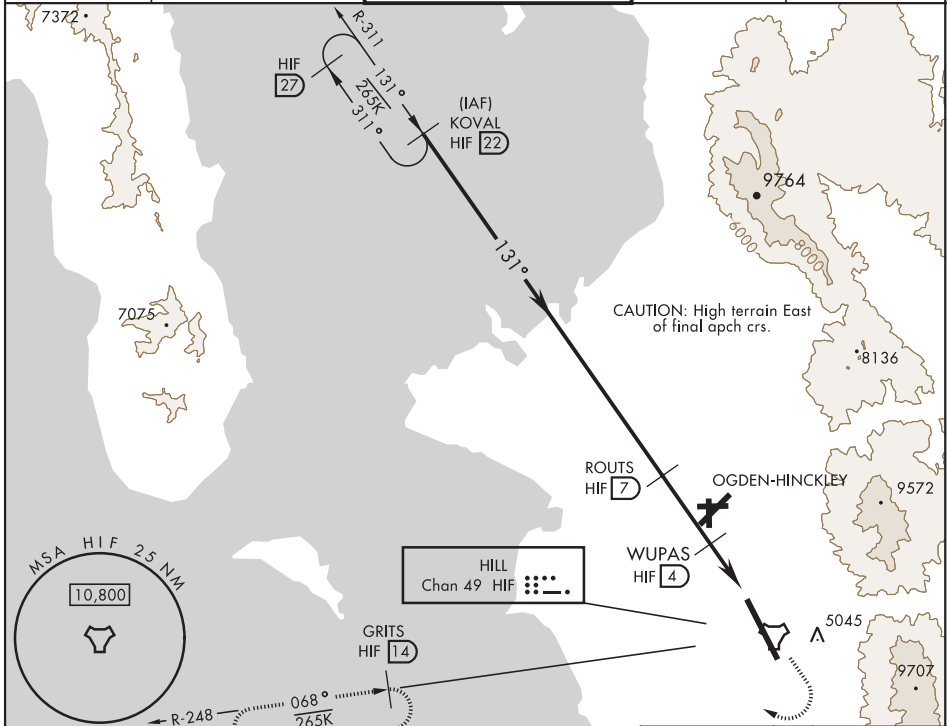
SW-4, 10 NOV 2016 to 05 JAN 2017

TACAN RWY 14

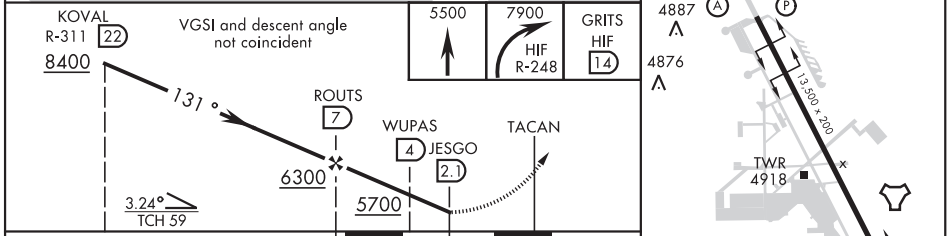
TACAN HIF Chan 49	APCH CRS 131°	Rwy Ldg TDZE 4786 Arprt Elev 4789	AL-296 [USAF]	HILL AFB (KHIF)
----------------------	------------------	---	---------------	-----------------

▼ * When ALS Inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ miles.
** Circling not authorized in sector NE of Rwy 14-32.

ATIS 134.925 397.9	SALT LAKE CITY APP CON 121.1 319.25	HILL TOWER 127.15 263.15	GND CON 121.6 275.8	CLNC DEL 124.1 335.8
-----------------------	--	-----------------------------	------------------------	-------------------------



ELEV 4789	TDZE 4786
-----------	-----------



CATEGORY	A	B	C	D	E
S-14 *	5140/24	354 (400-½)	5140/40	354 (400-¾)	
** CIRCLING	5240-1	451 (500-1)	5240-1½ 451(500-1½)	5340-2	551 (600-2)

Approach lights
 Rwy 14 2400'
 HIRL Rwy 14-32
 REIL Rwy 14-32

TACAN RWY 14

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

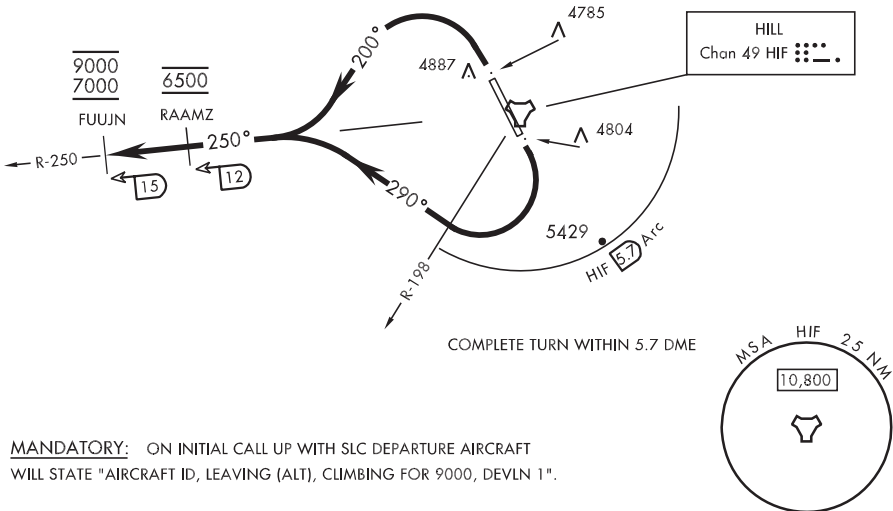
ATIS 134.925 397.9
 CLINC DEL
 124.1 335.8
 GND CON
 121.6 275.8
 HILL TOWER
 127.15 263.15
 SALT LAKE CITY
 DEP CON
 121.1 319.25
 CLOVER CON
 134.1 285.65

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.

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.

FALCN 1 DP (FALCN1 • FALCN)

SHL-296 [USAF]

HILL AFB (KHIF)

OGDEN, UTAH

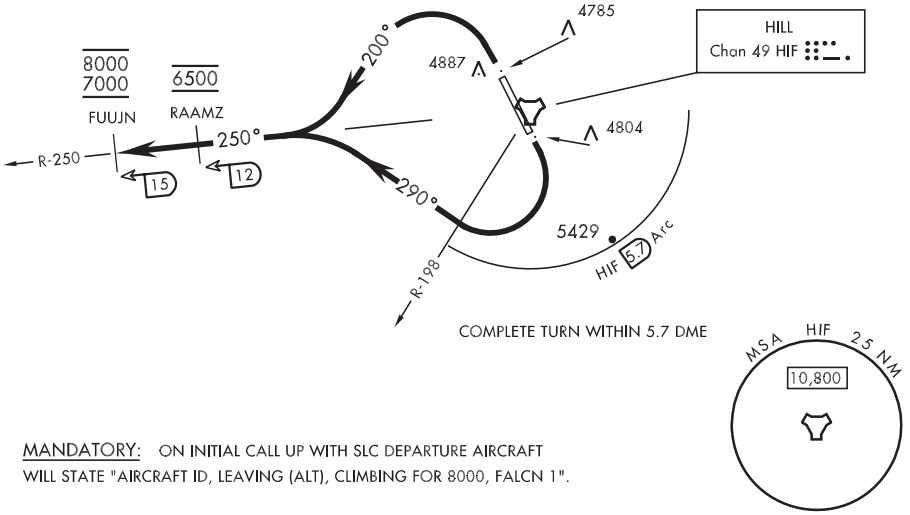
ATIS 134.925 397.9
 CLNC DEL
 124.1 335.8
 GND CON
 121.6 275.8
 HILL TOWER
 127.15 263.15
 SALT LAKE CITY
 DEP CON
 121.1 319.25
 CLOVER CON
 134.1 285.65

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 8000, FALCN 1".

EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

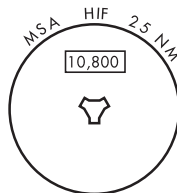
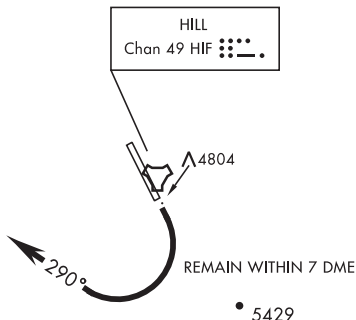
TAKE-OFF RWY 14: Turn right heading 290°, remain within HIF TACAN 5.7 DME until passing the HIF R-198 and established on a heading greater than 256°, intercept HIF R-250 outbound prior to HIF 12 DME, cross RAAMZ at 6500, climb and maintain 7000 block 8000.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ILONN 1 DP (ILONN1 • ILONN) SHL-296 [USAF]

HILL AFB (KHIF)

OGDEN, UTAH

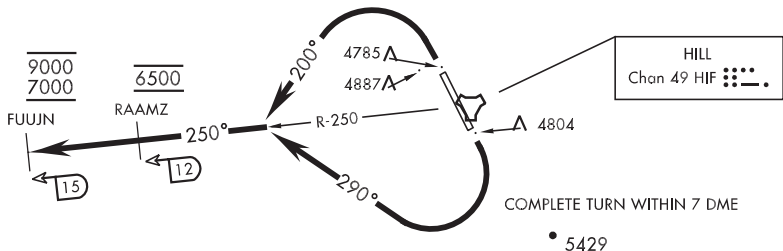
ATIS 134.925 397.9
 CLNC DEL
 124.1 335.8
 GND CON
 121.6 275.8
 HILL TOWER
 127.15 263.15
 SALT LAKE CITY
 DEP CON
 121.1 319.25
 CLOVER CON
 134.1 285.65

Rwy	Knots	60	120	180	240	300	360
14 (a)	V/V(fpm)	580	1160	1740	2320	2900	3480
14 (b)	V/V(fpm)	260	520	780	1040	1300	1560
32 (c)	V/V(fpm)	660	1320	1980	2640	3300	3960

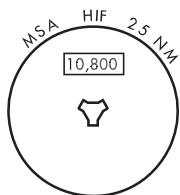
ATC Climb Rate

- (a) To 5200
- (b) From 5200 to 6300
- (c) 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°



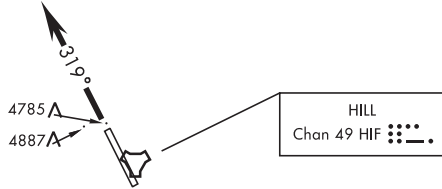
EMERG SAFE ALT 100 NM 15,600

DEPARTURE ROUTE DESCRIPTION

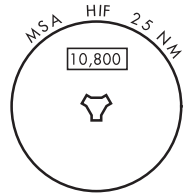
TAKE-OFF RWY 14: Turn right heading 290°, intercept HIF TACAN R-250 outbound prior to 12 DME (complete turn within 7 DME), cross RAAMZ at 6500, maintain block 7000 through 9000.

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.

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.

HUNTINGTON, UTAH

AL-6693 (FAA)

15064

APP CRS 194°	Rwy Idg TDZE Apt Elev	N/A N/A 5909
------------------------	-----------------------------	---

RNAV (GPS)-C

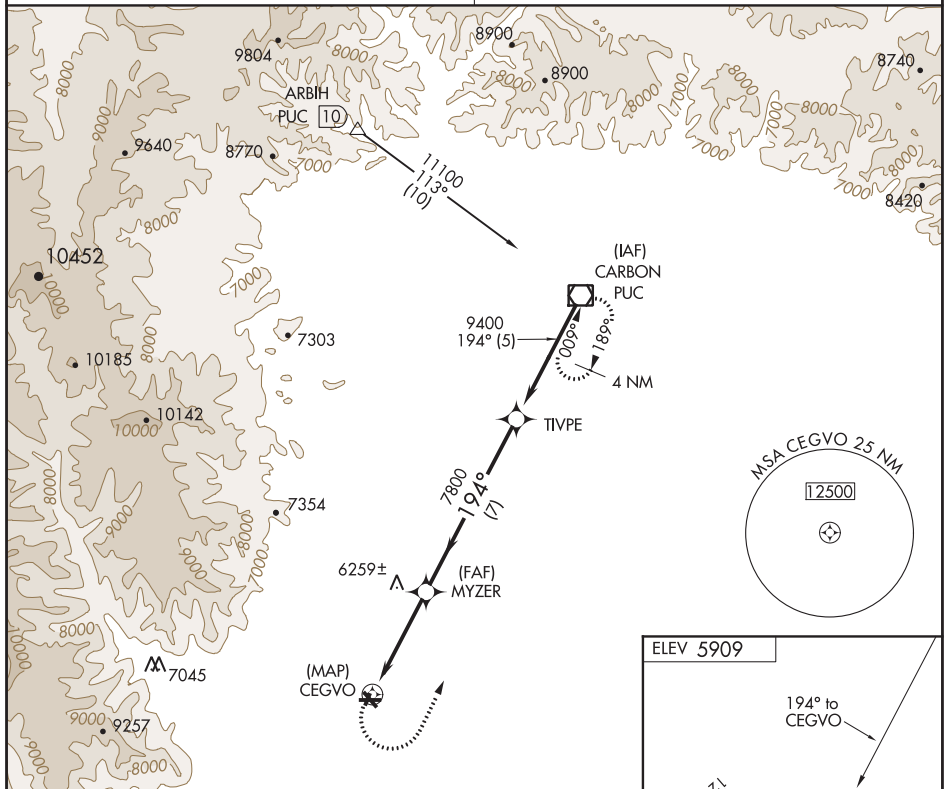
HUNTINGTON MUNI (69V)

▽ Use Carbon County Rgnl/Buck Davis Field altimeter setting; when not received, procedure NA.
△ NA Procedure NA at night.
 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

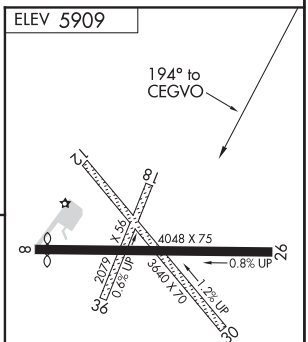
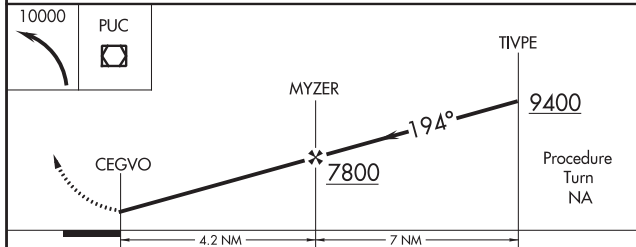
MISSED APPROACH: Climbing left turn to 10000 direct PUC VOR/DME and hold.

SALT LAKE CENTER
133.9 370.85

UNICOM
122.8 (CTAF) 0



Procedure not authorized for arrival at ARBIH via V134 northwestbound.
 Procedure not authorized for arrival at PUC VOR/DME via V208 northbound.



CATEGORY	A	B	C	D
CIRCLING	6520-1	611 (700-1)	6600-2 691 (700-2)	NA

MIRL Rwy 8-26 0

HUNTINGTON, UTAH
Orig 30OCT03

39°22'N-110°55'W

HUNTINGTON MUNI (69V)

RNAV (GPS)-C

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

KANAB, UTAH

AL-9072 (FAA)

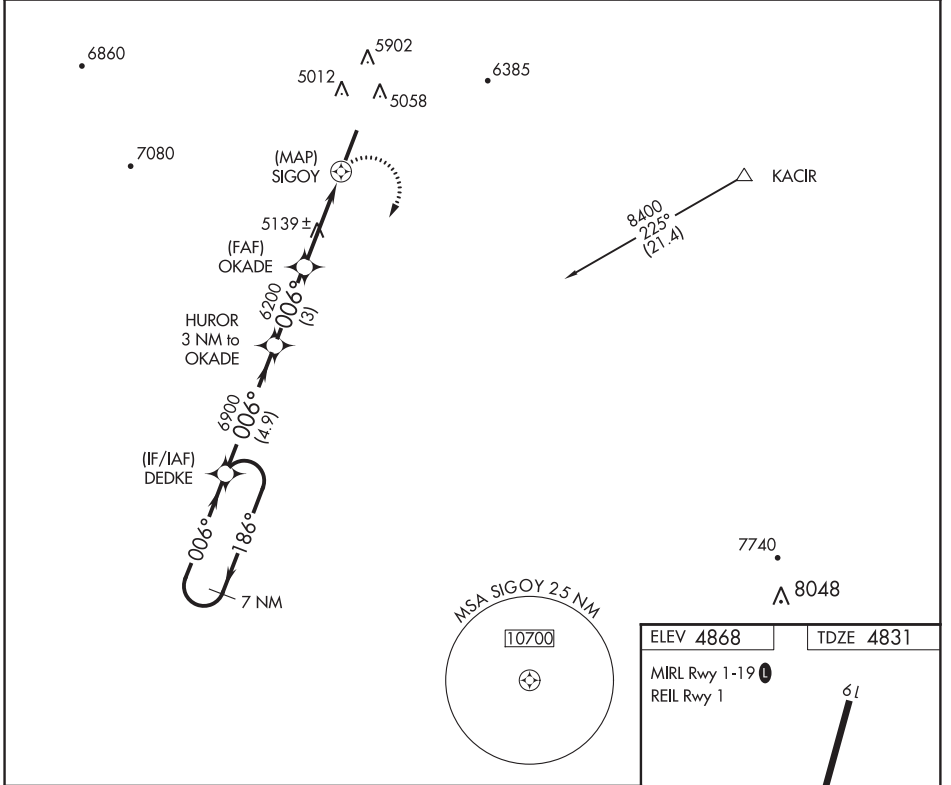
15064

APP CRS	Rwy Idg	6193
006°	TDZE	4831
	Apt Elev	4868

RNAV (GPS) RWY 1

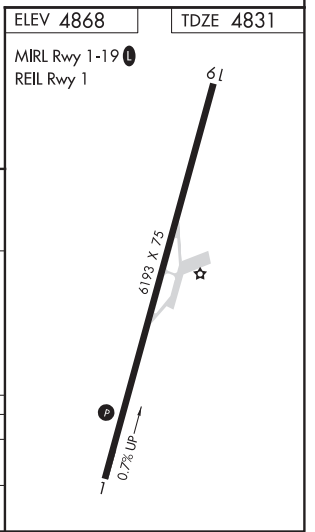
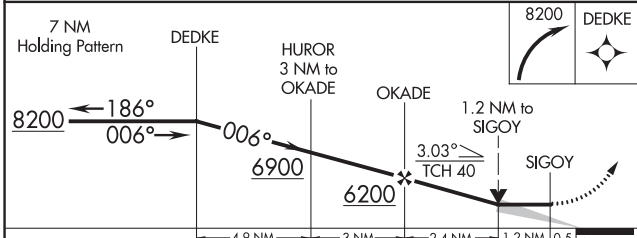
KANAB MUNI (KNB)

<p>▽</p> <p>▲ DME/DME RNP-0.3 NA.</p>	<p>MISSED APPROACH: Climbing right turn to 8200 direct DEDKE and hold.</p>	
<p>AWOS-3</p> <p>133.175</p>	<p>LOS ANGELES CENTER</p> <p>124.2 343.6</p>	<p>UNICOM</p> <p>122.8 (CTAF) 0</p>



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
RNAV 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

KANAB, UTAH
Amdt 1 14APR05

37°01'N-112°32'W

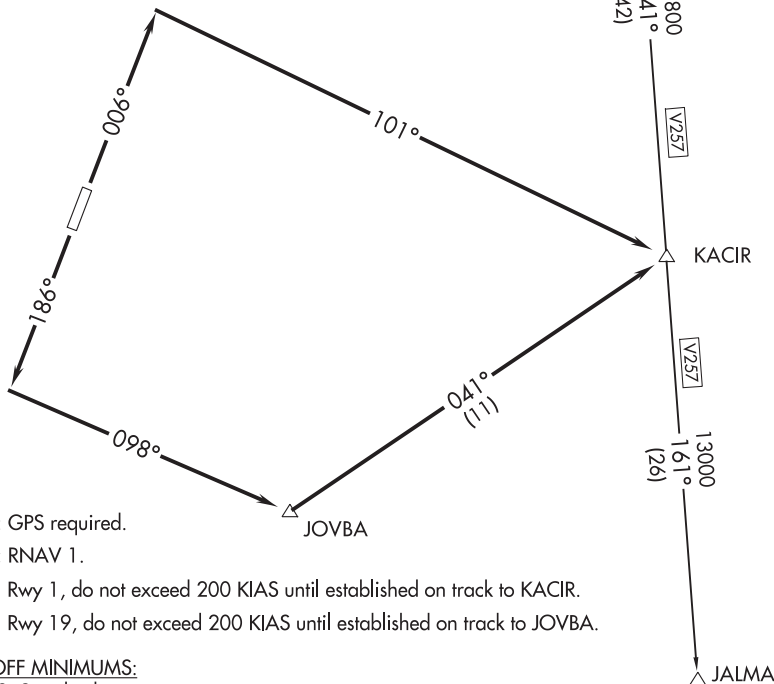
RNAV (GPS) RWY 1

TAKEOFF OBSTACLE NOTES:

Rwy 1: Trees beginning 2629' from DER, 465' left of centerline, up to 58' AGL/4960' MSL.
 Trees beginning 3086' from DER, 361' left of centerline, up to 63' AGL/4968' MSL.
 Trees beginning 1138' from DER, 302' left of centerline, up to 49' AGL/4908' MSL.
 Vent on bldg 554' from DER, 371' left of centerline, 15' AGL/4884' MSL.

BRYCE CANYON BCE

LOS ANGELES CENTER
124.2 343.6
UNICOM 122.8 (CTAF)



NOTE: GPS required.

NOTE: RNAV 1.

NOTE: Rwy 1, do not exceed 200 KIAS until established on track to KACIR.

NOTE: Rwy 19, do not exceed 200 KIAS until established on track to JOVBA.

TAKEOFF MINIMUMS:

Rwy 19: Standard.

Rwy 1: Standard with minimum climb of 620 feet per NM to 6800 or 1200-3 with minimum climb of 440 feet per NM to 7200.

NOTE: Chart not to scale.

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)

16259

WAAS CH 86312 W03A	APP CRS 033°	Rwy Idg TDZE Apt Elev	6827 3412 3449
--	------------------------	-----------------------------	---

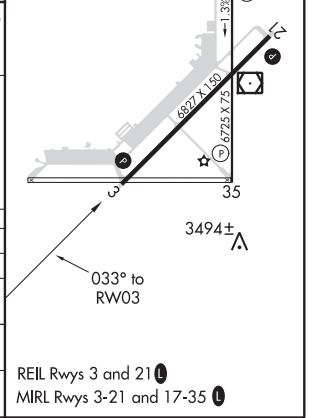
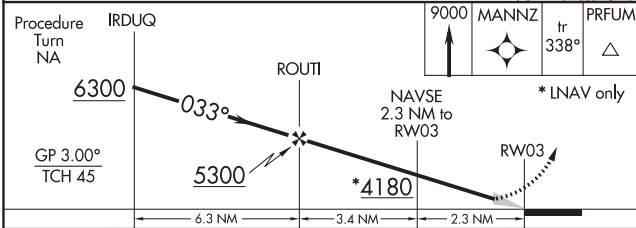
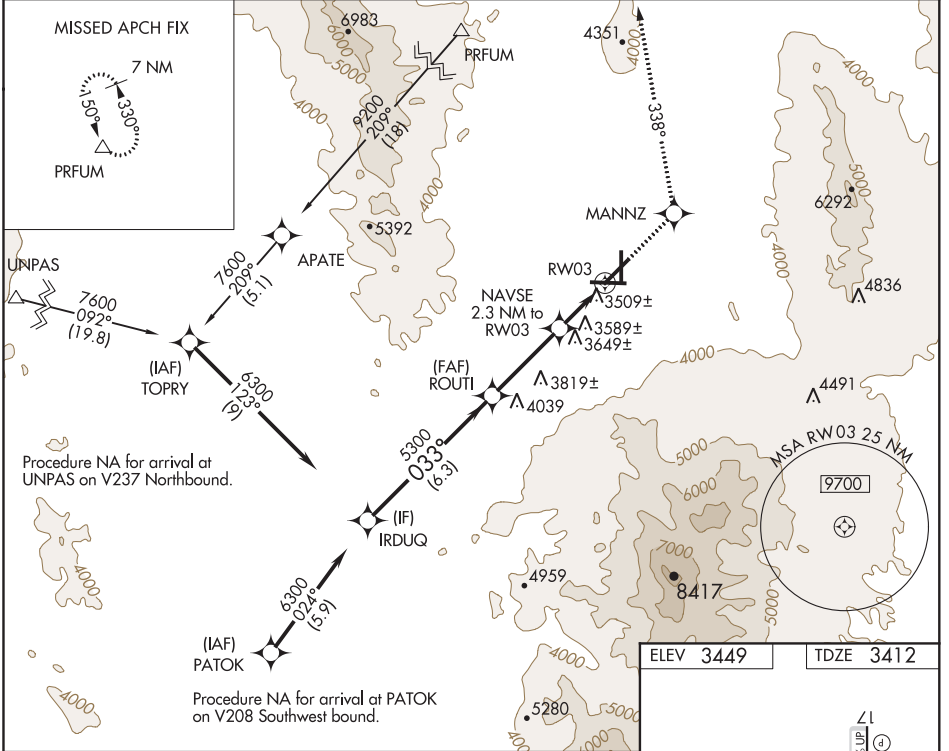
RNAV (GPS) RWY 3

KINGMAN (IGM)

⚠ 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 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) ①
------------------------	---------------------------------	--



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)	3840-1½ 428 (500-1½)	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)

KINGMAN, ARIZONA
Orig-B 31MAR16

35°16'N-113°56'W

RNAV (GPS) RWY 3

KINGMAN (IGM)

SW-4, 10 NOV 2016 to 05 JAN 2017

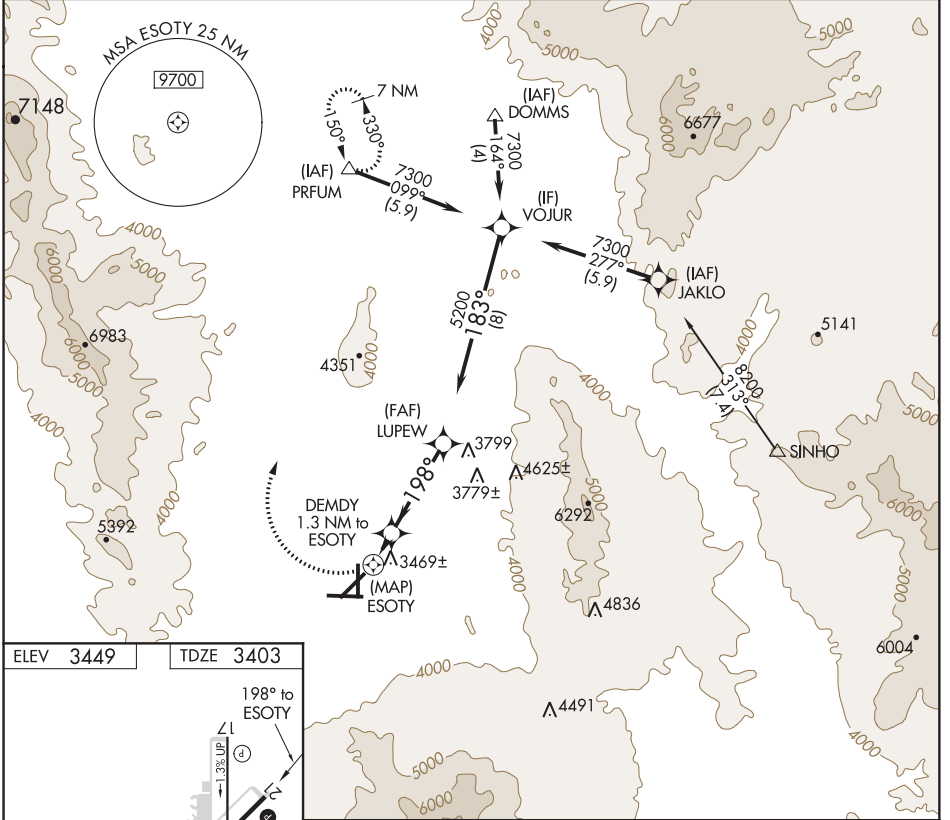
SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) Y RWY 21 KINGMAN (IGM)

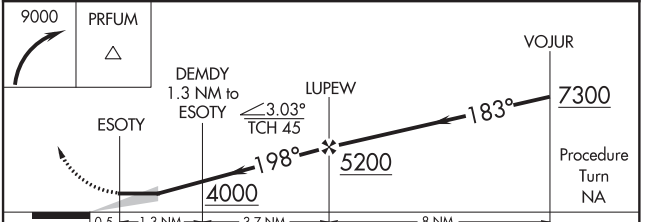
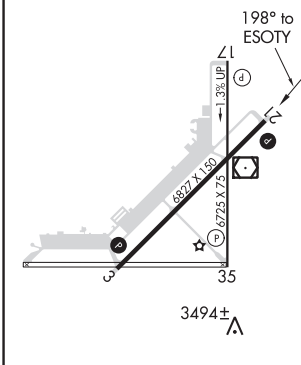
APP CRS 198°	Rwy Idg 6827	TDZE 3403	Apt Elev 3449
------------------------	------------------------	---------------------	-------------------------

▽ ▲	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 9000 direct PRFUM and hold, continue climb-in-hold to 9000.
----------------------	---------------------	---

ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) ①
------------------------	---------------------------------	--



ELEV 3449	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 Rwy 3 and 21 **①**
MIRL Rwy 3-21 and 17-35 **①**

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

KINGMAN, ARIZONA

AL-215 (FAA)

16259

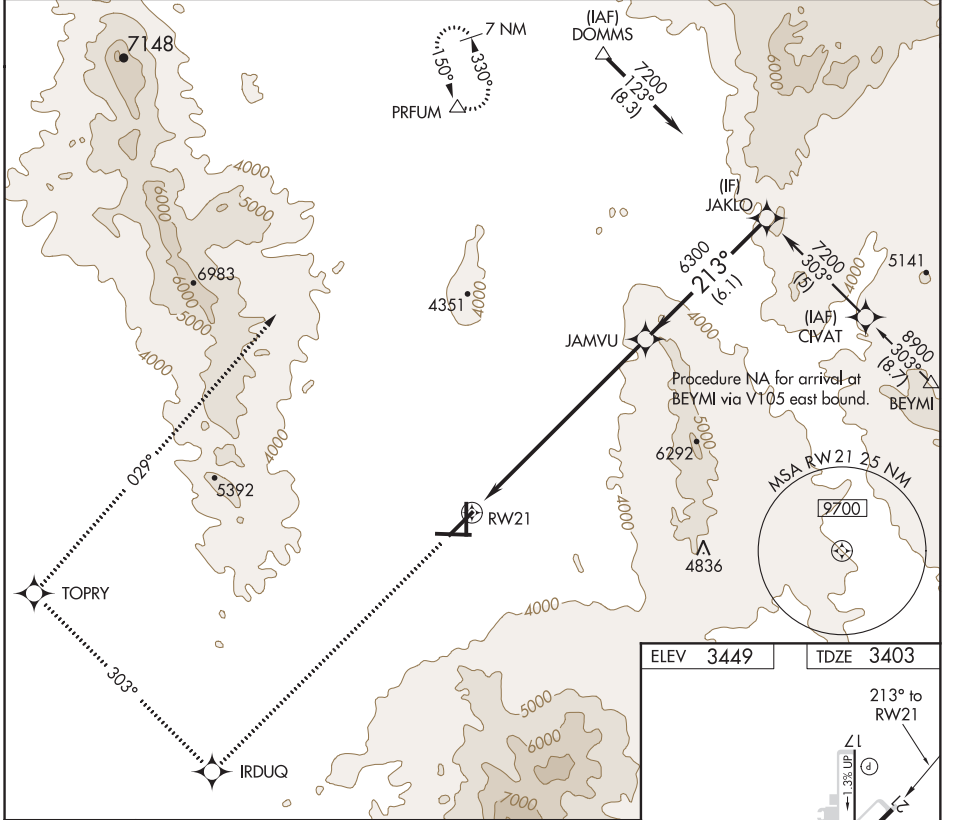
WAAS CH 70612 W21A	APP CRS 213°	Rwy Idg TDZE Apt Elev	6827 3403 3449
--	------------------------	-----------------------------	---

RNAV (GPS) Z RWY 21

KINGMAN (IGM)

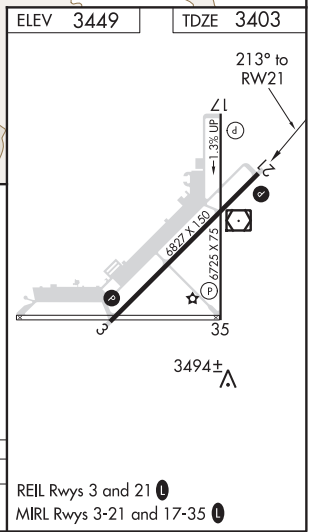
▽ NA	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 9000 direct IRDUQ and via track 303° to TOPRY and via track 029° to PRFUM and hold.
-------------	---------------------	---

ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) ①
------------------------	---------------------------------	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



9000	IRDUQ	tr 303°	TOPRY	tr 029°	PRFUM	Procedure Turn NA
CATEGORY	A	B	C	D		
LPV DA		3653-1	250 (300-1)			

KINGMAN, ARIZONA
Orig-C 31MAR16

35°16'N-113°56'W

RNAV (GPS) Z RWY 21

KINGMAN (IGM)

REIL Rwy 3 and 21 **①**
MIRL Rwy 3-21 and 17-35 **①**

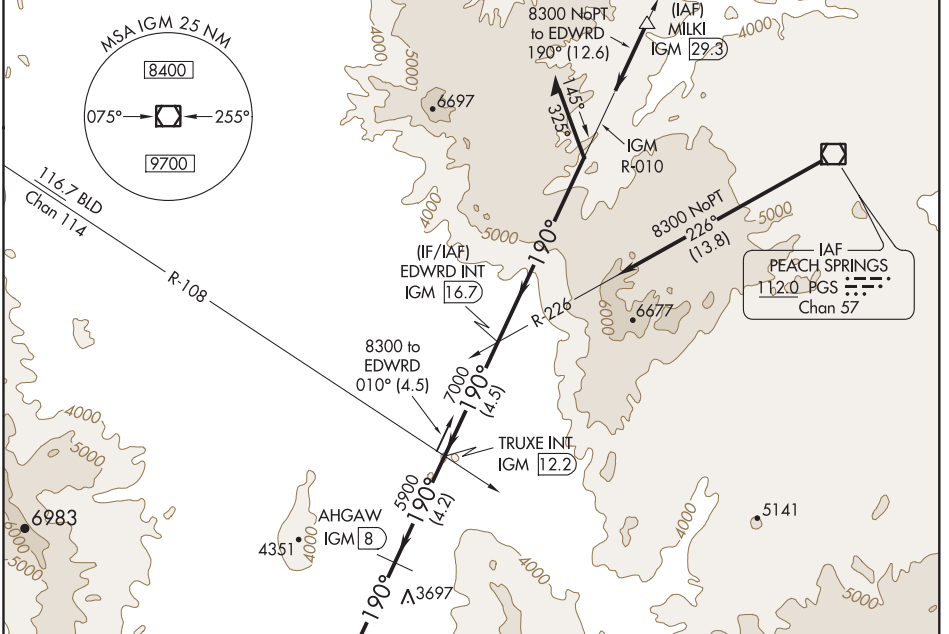
VOR/DME IGM 108.8 Chan 25	APP CRS 190°	Rwy Idg TDZE 6827 3403 Apt Elev 3449
--	------------------------	--

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.

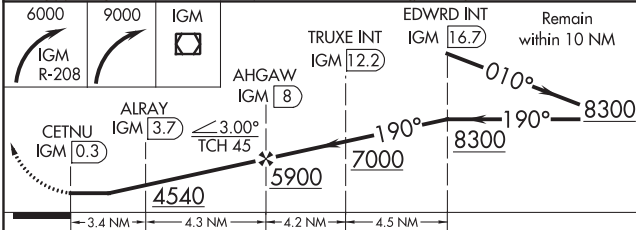
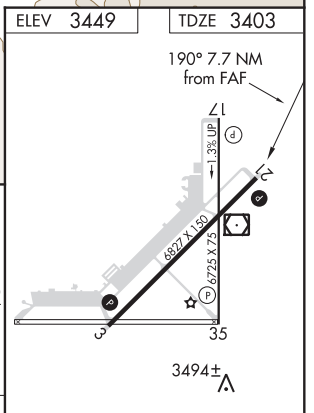
ASOS 119.275	PRESCOTT RADIO 122.1R	UNICOM 122.8 (CTAF) ⓪
------------------------	---------------------------------	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 3449	TDZE 3403
-----------	-----------



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 Rwy 3-21 and 17-35 **⓪**
REIL Rwy 3 and 21 **⓪**

APCH CRS	Rwy Idg	6000
063°	TDZE	387
	Arpt Elev	433

AL-6341 [USA]

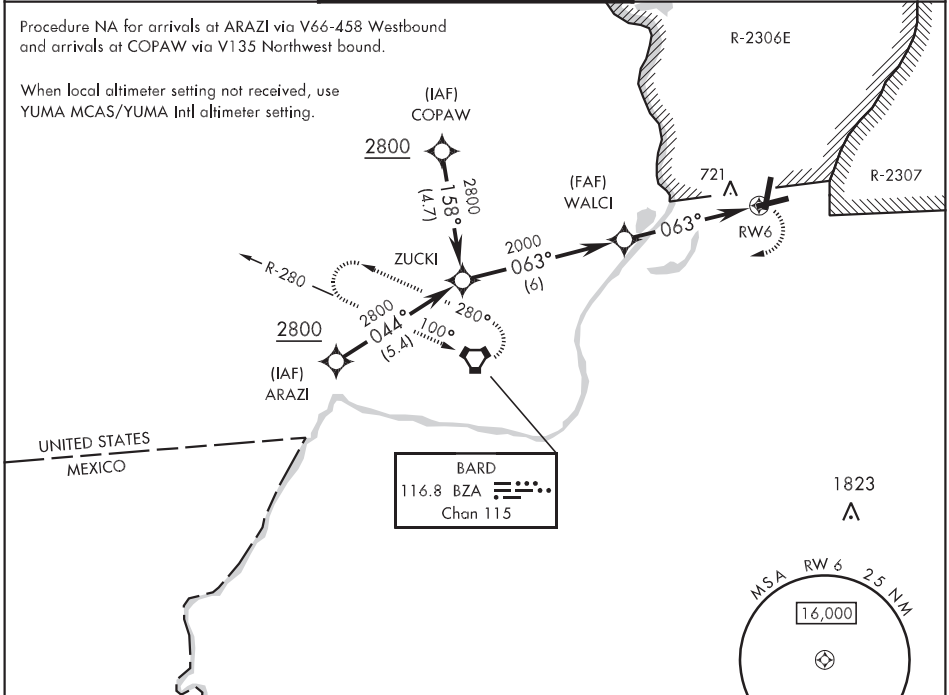
LAGUNA AAF (KLGf)

▼ DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 3600 direct BZA VORTAC and hold.
▲ NA Procedure NA when airfield closed.	

YUMA APP CON	CTAF	GND CON
124.7 374.8	126.20 242.175	121.8 0 229.4

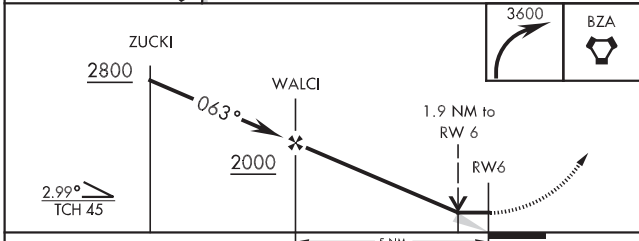
Procedure NA for arrivals at ARAZI via V66-458 Westbound and arrivals at COPAW via V135 Northwest bound.

When local altimeter setting not received, use YUMA MCAS/YUMA Intl altimeter setting.



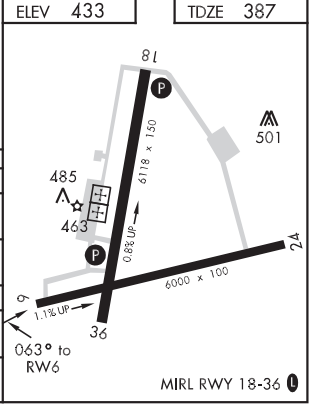
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 433	TDZE 387
----------	----------

CATEGORY	A	B	C	D
RNAV 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				
RNAV 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)



YUMA PROVING GROUND, ARIZONA

RNAV (GPS) RWY 18

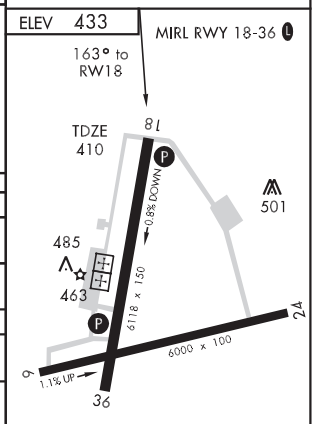
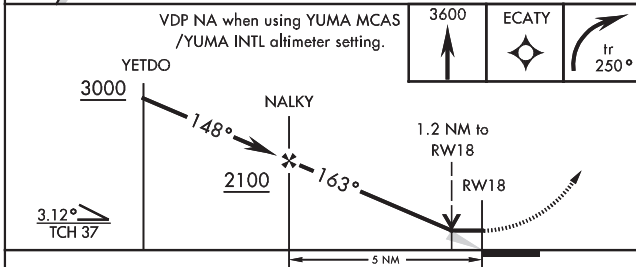
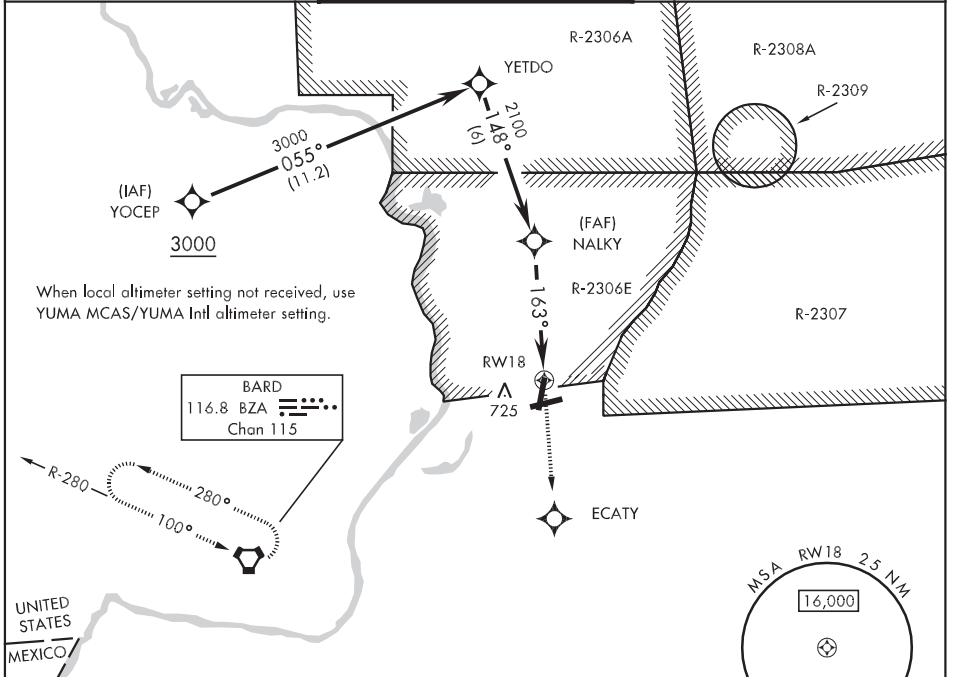
APCH CRS	Rwy Idg	6118
163°	TDZE	410
	Arpt Elev	433

AL-6341 [USA]

LAGUNA AAF (KLGf)

▽ DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3600 direct ECATY, via 250° track to BZA VORTAC and hold, continue climb in hold to 3600.
△ NA Procedure NA when airfield closed.	

YUMA APP CON 124.7 374.8	CTAF 126.20 242.175	GND CON 121.8 0 229.4
------------------------------------	-------------------------------	---------------------------------



CATEGORY	A		B		C		D	
RNAV MDA	820-1	410 (400-1)	820-1¼	410 (400-1¼)				
CIRCLING	1080-1	647 (700-1)	1080-1¼	647 (700-1¼)	1080-2	647 (700-2)		
YUMA MCAS/YUMA Intl ALTIMETER SETTING								
RNAV 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)		

YUMA PROVING GROUND, ARIZONA
Orig 10126

32°52'N-114°24'W

LAGUNA AAF (KLGf)

RNAV (GPS) RWY 18

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC BZA 116.8 Chan 115	APCH CRS 048°	Rwy Idg TDZE Arpt Elev 6000 387 433
---	-------------------------	---

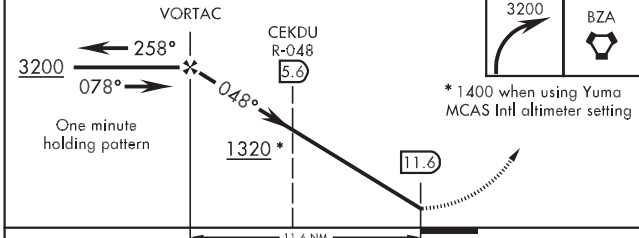
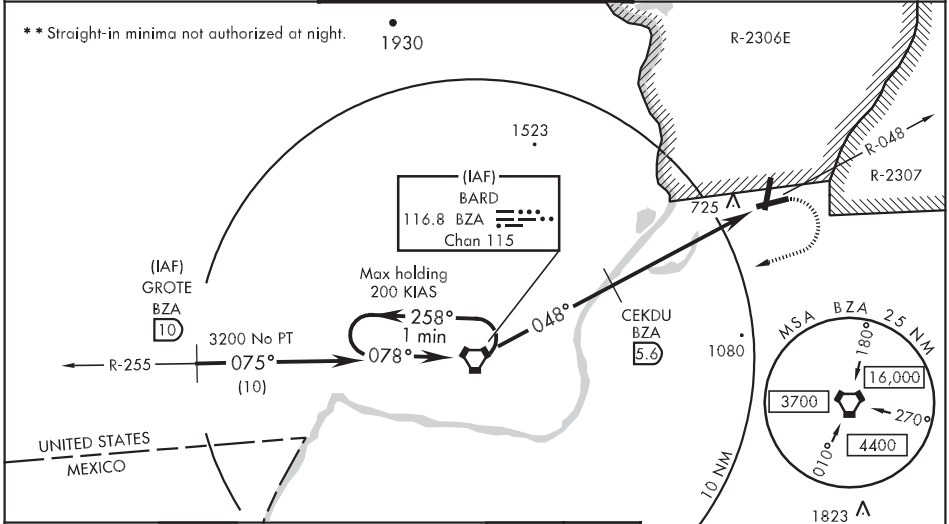
AL-6341 [USA]

LAGUNA AAF (KLGf)

Procedure not authorized when airfield closed.
Obtain local altimeter setting on CTAF.
When not received, use Yuma MCAS Infil altimeter setting.

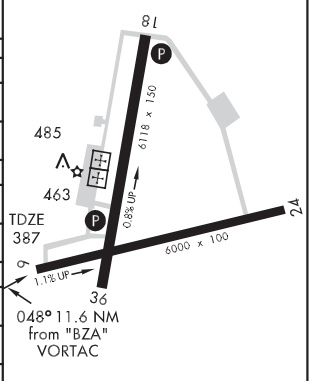
MISSED APPROACH: Climbing right turn to 3200 direct BZA VORTAC and hold.

YUMA APP CON 124.7 374.8	CTAF 126.20 242.175	GND CON 121.8 229.4
------------------------------------	-------------------------------	-------------------------------



ELEV 433	MIRL RWY 18-36
----------	----------------

CATEGORY	A	B	C	D
S-6 **	1320-1¼	933 (900-1¼)	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)	1040-1¼ 653 (700-1¼)	1040-2 653 (700-2)
CIRCLING	1080-1	647 (700-1)	1080-1¾ 647 (700-1¾)	1080-2 647 (700-2)
YUMA MCAS/YUMA Infil 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 Infil 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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-6341 [USA]

LAGUNA AAF (KLGf)

YUMA PROVING GROUND, ARIZONA

CTAF
126.20 242.175
GND CON
121.8 229.4

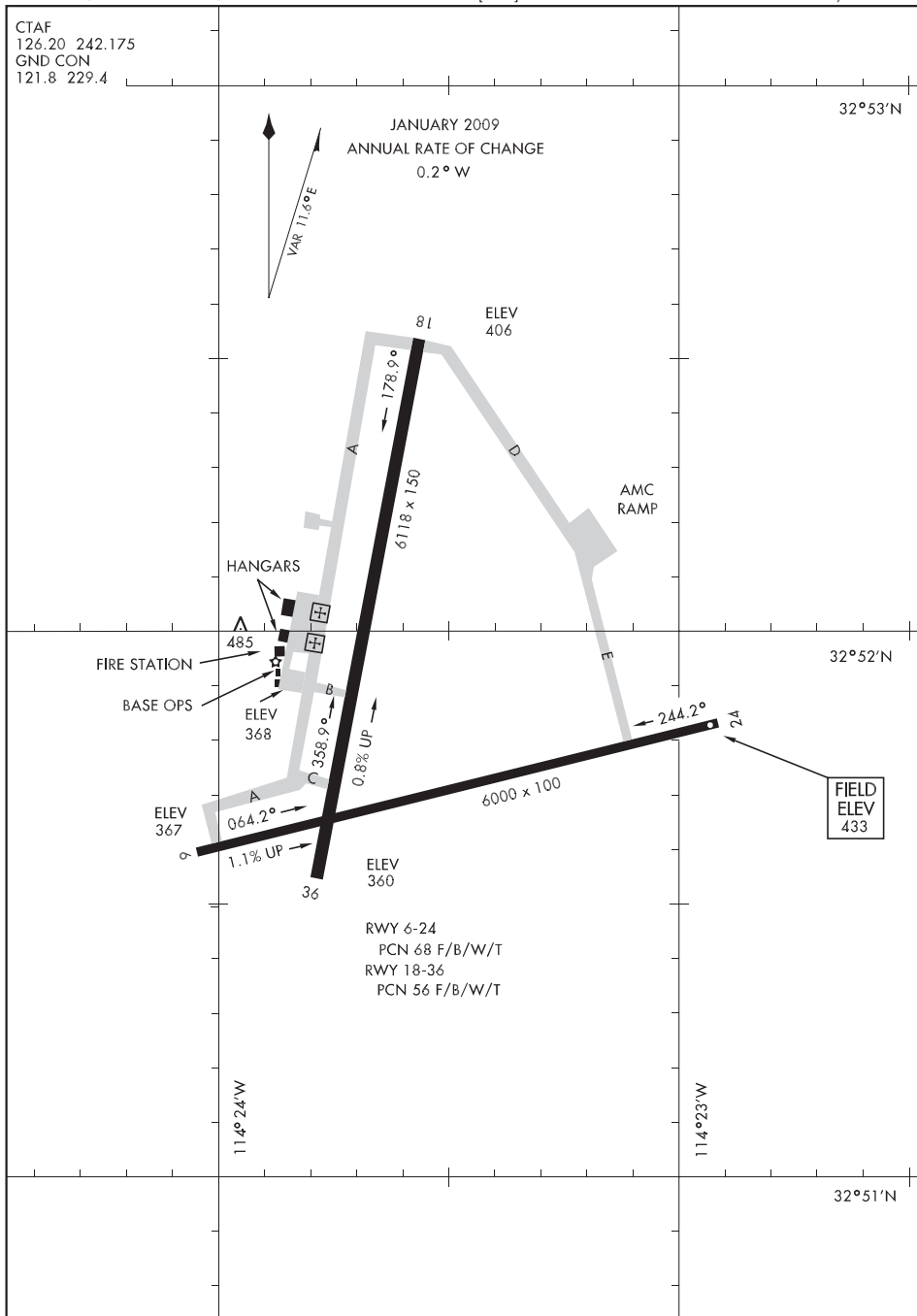
32°53'N

JANUARY 2009
ANNUAL RATE OF CHANGE
0.2° W

VAR 11.6°E

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

YUMA PROVING GROUND, ARIZONA
LAGUNA AAF (KLGf)

WAAS CH 53330 W14A	APP CRS 134°	Rwy Idg TDZE Apt Elev	8001 759 783
--	------------------------	-----------------------------	---

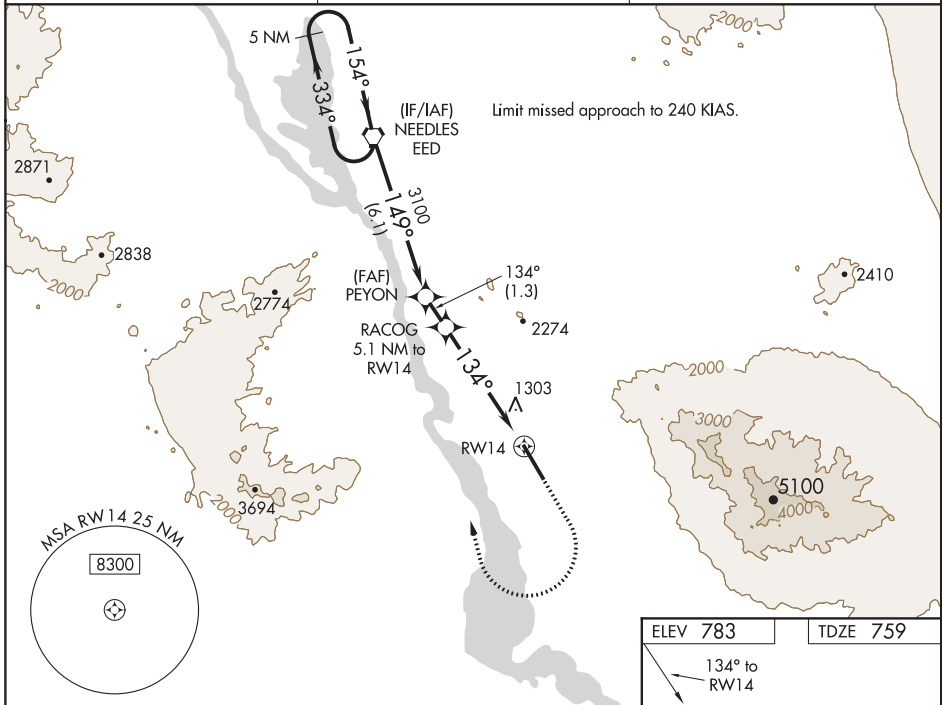
RNAV (GPS) RWY 14

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. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When VGSI inop, procedure NA at night.

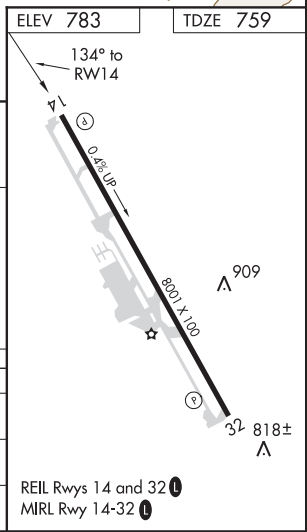
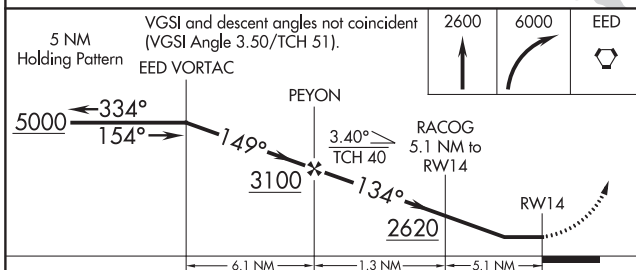
MISSED APPROACH: Climb to 2600 then climbing right turn to 6000 direct EED VORTAC and hold, continue climb-in-hold to 6000.

AWOS-3 119.025	LOS ANGELES CENTER 134.65 314.2	UNICOM 122.7 (CTAF) ⓪
--------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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)
CIRCLING	2320-1¼ 1537 (1600-1¼)	2320-1½ 1537 (1600-1½)	2320-3	1537 (1600-3)

WAAS CH 49110 W32A	APP CRS 317°	Rwy Idg TDZE Apt Elev	8001 783 783
--	------------------------	-----------------------------	---

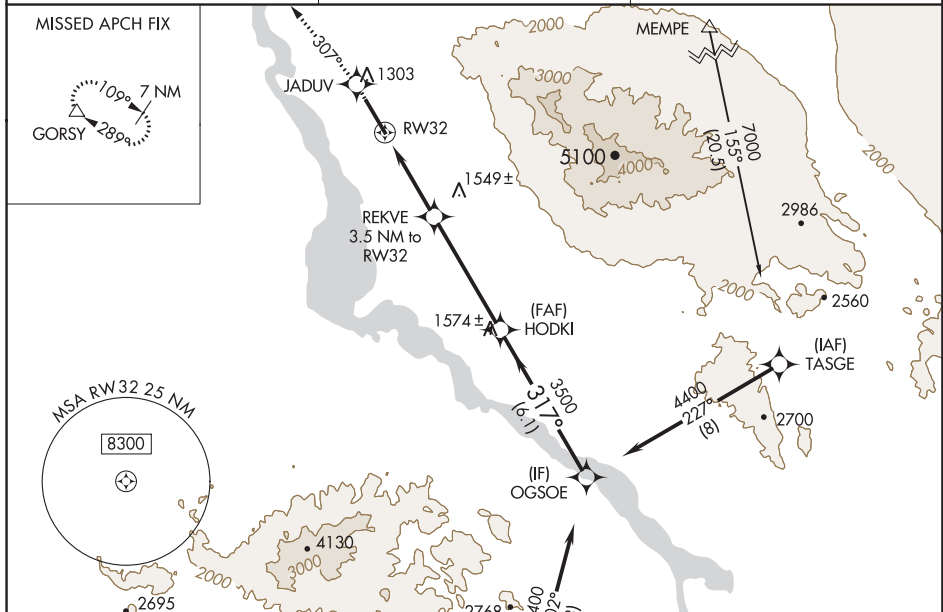
RNAV (GPS) RWY 32

LAKE HAVASU CITY (HII)

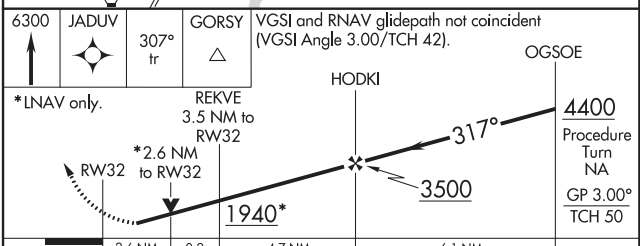
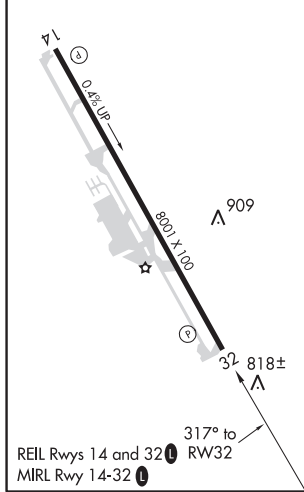
NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Needles altimeter setting and increase all DA/MDA 80 feet and all visibilities ½ mile. VDP NA when using Needles altimeter setting. Circling NA northeast of Rwy 14-32.

MISSED APPROACH: Climb to 6300 direct JADUV and via 307° track to GORSY and hold, continue climb-in-hold to 6300.

AWOS-3 119.025	LOS ANGELES CENTER 134.65 314.2	UNICOM 122.7 (CTAF)
--------------------------	---	-------------------------------



ELEV 783	TDZE 783
-----------------	-----------------



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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC EED 115.2 Chan 99	APP CRS 139°	Rwy Idg TDZE Apt Elev	N/A N/A 783
--	------------------------	-----------------------------	--

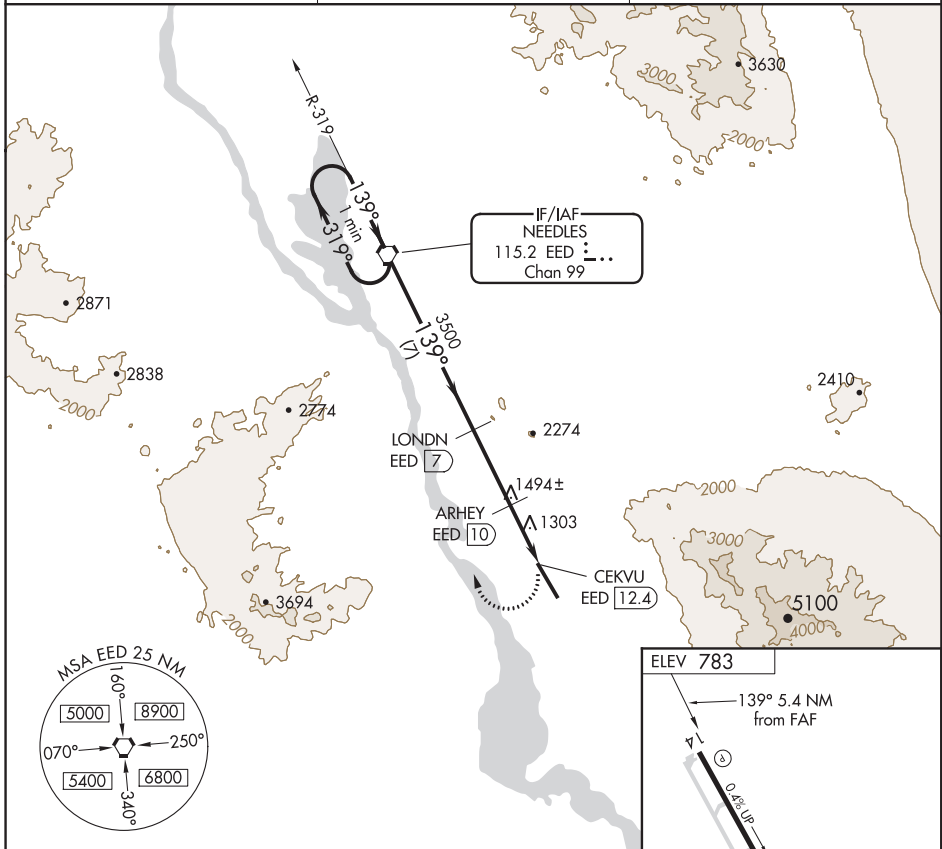
VOR/DME-A

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.

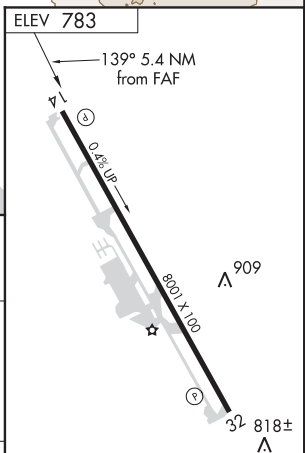
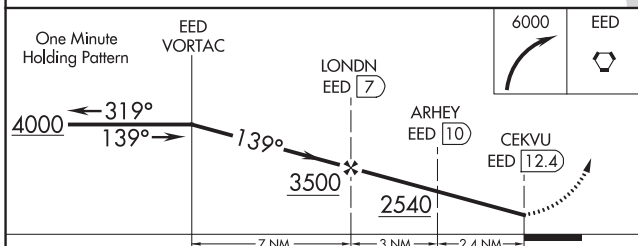
MISSED APPROACH: Climbing right turn to 6000 direct EED VORTAC and hold, continue climb-in-hold to 6000.

AWOS-3 119.025	LOS ANGELES CENTER 134.65 314.2	UNICOM 122.7 (CTAF)
--------------------------	---	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	1800-1¼ 1017 (1100-1¼)	1800-1½ 1017 (1100-1½)	1800-3	1017 (1100-3)

REIL Rwy 14 and 32 **1**
MIRL Rwy 14-32 **1**

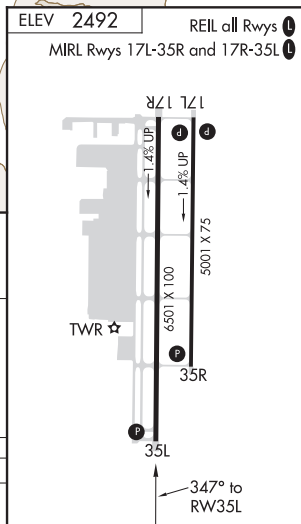
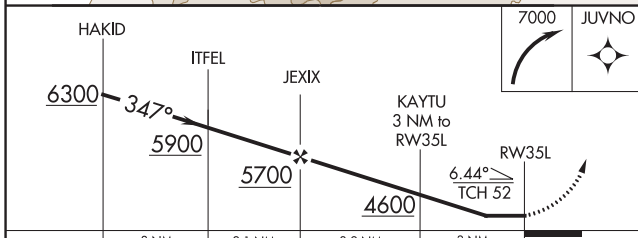
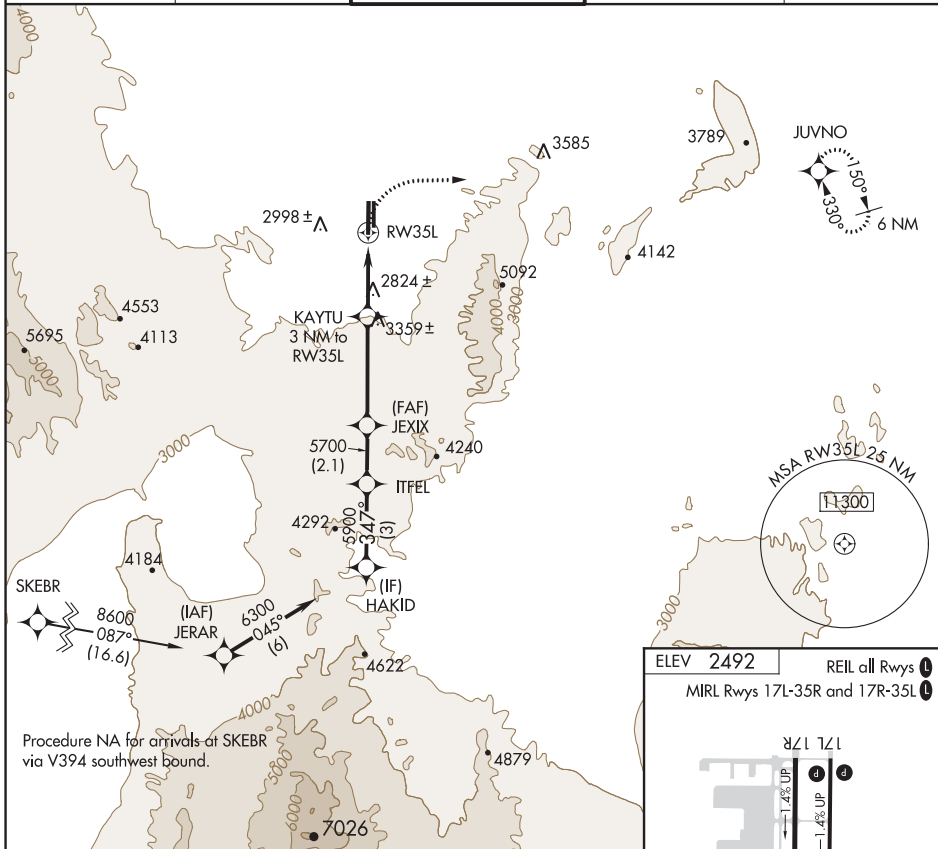
RNAV (GPS)-B
HENDERSON EXECUTIVE (HND)

APP CRS 347°	Rwy Idg TDZE Apt Elev	N/A N/A 2492
------------------------	-----------------------------	---

⚠ 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 120.775	LAS VEGAS APP CON 118.4 307.25	HENDERSON TOWER* 125.1 (CTAF) ①	GND CON 127.8	UNICOM 122.95
------------------------	--	---	-------------------------	-------------------------



CATEGORY	A	B	C	D
CIRCLING	3900-1¼ 1403 (1500-1¼)	3900-1½ 1403 (1500-1½)	3900-3 1403 (1500-3)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

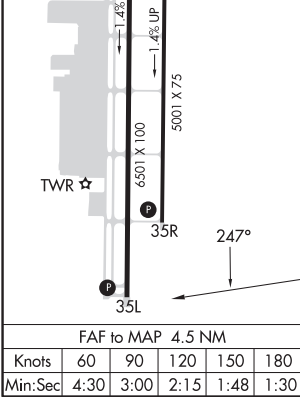
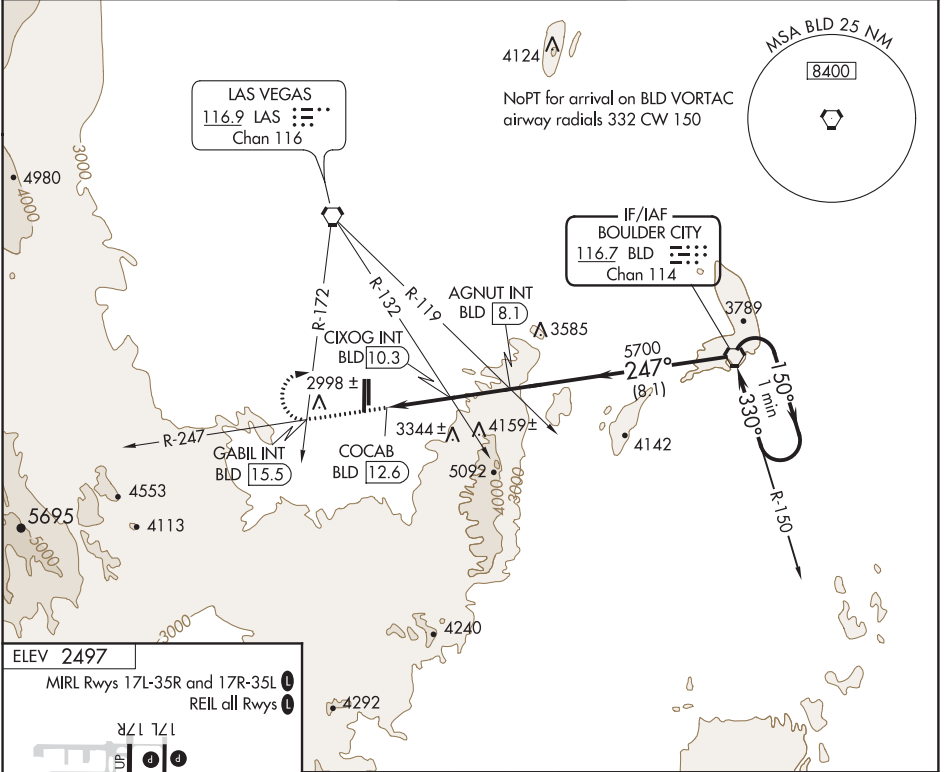
VORTAC BLD 116.7 Chan 114	APP CRS 247°	Rwy Idg TDZE Apt Elev N/A N/A 2497
---	------------------------	--

VOR-C
HENDERSON EXECUTIVE (HND)

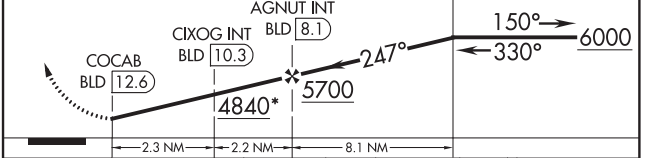
⚠ Circling to Rwy 35L NA at night.
⚠ If local altimeter setting not received, use McCarran Intl altimeter setting and increase all MDAs 60 feet.

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 120.775	LAS VEGAS APP CON 118.4 307.25	HENDERSON TOWER* 125.1 (CTAF) 0	GND CON 127.8	UNICOM 122.95
------------------------	--	--	-------------------------	-------------------------



7000 BLD R-247	GABIL INT BLD [15.5]	BLD *4960 when using McCarran Intl altimeter setting.	BLD VORTAC	One Minute Holding Pattern
----------------------	-------------------------	--	------------	----------------------------



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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

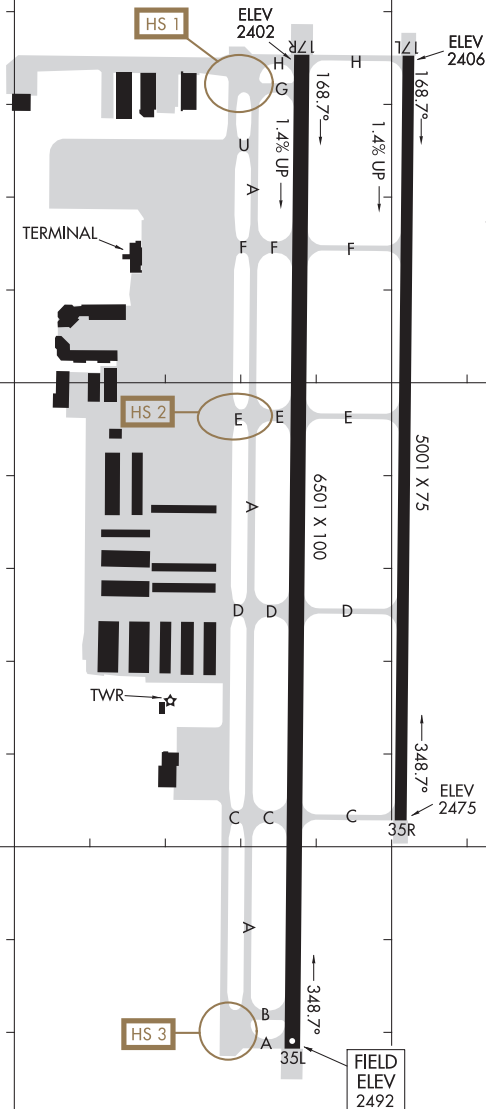
AIRPORT DIAGRAM

AL-6514 (FAA)

HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA

ATIS
120.775
HENDERSON TOWER ★
125.1
GND CON
127.8

35°59.0'N



JANUARY 2015
 ANNUAL RATE OF CHANGE
 0.1° W

35°58.5'N

RWY 17L-35R
 S-30, D-30
 RWY 17R-35L
 S-30, D-60

35°58.0'N

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

115°08.5'W

115°08.0'W

115°07.5'W

AIRPORT DIAGRAM

LAS VEGAS, NEVADA
HENDERSON EXECUTIVE (HND)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

7.10.2010 01.91.02.10.2010.01.7-WS

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17R: Climb heading 168° to intercept course 198° to CAVER, then on track 160° to DAWN1, then on track 099° to CAPTA, then on track 073° to BAWLD, then on track 052° to cross ACSIN at or above 13000, then on track 018° to REELY, then on track 039° to cross TRAILR at or below FL190, then on track 055° to BEERZ, thence. . . .

. . . via transition. Maintain FL190, expect filed altitude 10 minutes after departure.

CIKED TRANSITION (AC SIN3.CIKED)

CIRQS TRANSITION (AC SIN3.CIRQS)

DOVE CREEK TRANSITION (AC SIN3.DVC)

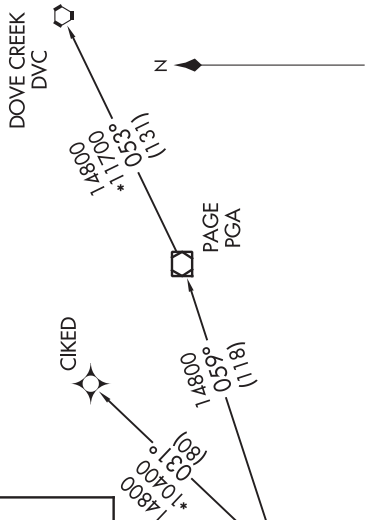
TAKEOFF MINIMUMS

Rwys 17L, 35R, 35L: NA- ATC.

Rwy 17R: Standard with minimum climb of 560' per NM to 5000, then climb of 226' per NM to 13000.

TOP ALTITUDE:
FL190

ATIS
120.775
GND CON
127.8
HENDERSON TOWER*
125.1 (CTAF)
LAS VEGAS DEP CON
118.4



TAKEOFF OBSTACLE NOTES

Rwy 17R: Fence 629' from DER, left and right of centerline, 10' AGL/2510' MSL. Multiple vehicles on road beginning 1140' from DER, left and right of centerline, up to 18' AGL/2617' MSL.
Antenna 928' from DER, 717' left of centerline, 50' AGL/2552' MSL.
Multiple poles beginning 2763' from DER, 20' left of centerline, up to 50' AGL/2598' MSL.
Multiple trees beginning 4044' from DER, 233' left of centerline, 25' AGL/2784' MSL.
Bush 134' from DER, 314' right of centerline, 6' AGL/2498' MSL.
Tree 1598' from DER, 873' right of centerline, 25' AGL/2584' MSL.
Multiple poles beginning 2756' from DER, 354' right of centerline, up to 50' AGL/2609' MSL.

NOTE: GPS required.

NOTE: RNAV 1.

NOTE: Chart not to scale.

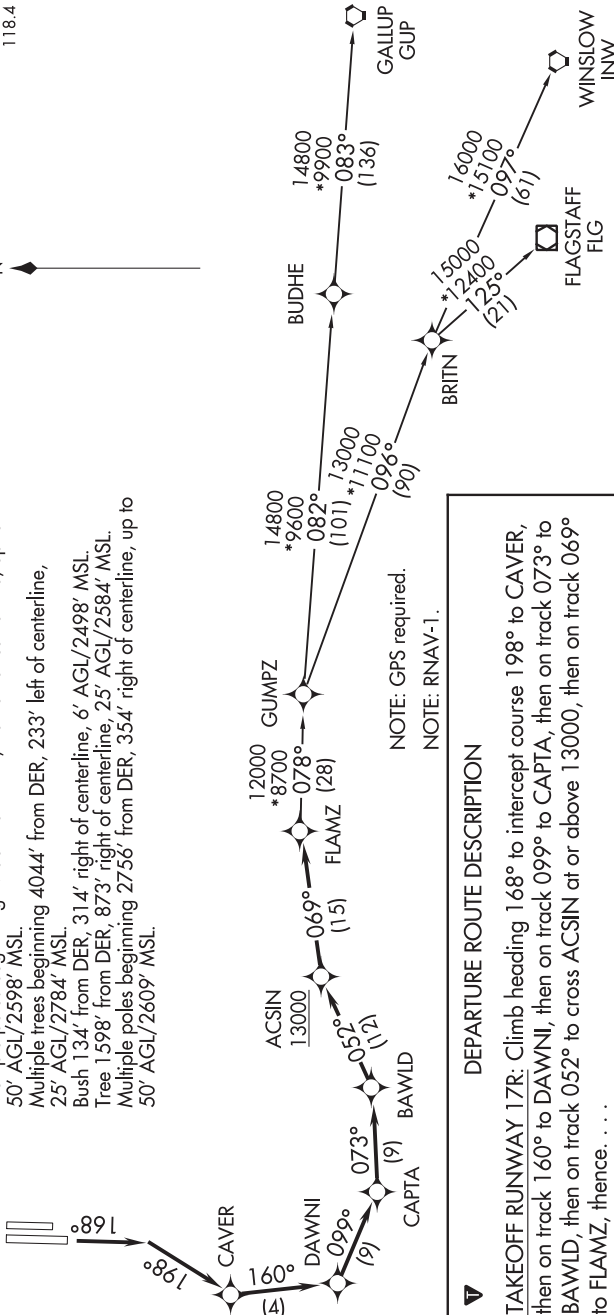
7-SW 10 NOV 2016 10:19:05 JAN 2017

TAKEOFF OBSTACLE NOTES

Rwy 17R: Fence 629' from DER, left and right of centerline, 10' AGL/2510' MSL.
 Multiple vehicles on road beginning 1140' from DER, left and right of centerline, up to 18' AGL/2617' MSL.
 Antenna 928' from DER, 717' left of centerline, 50' AGL/2552' MSL.
 Multiple poles beginning 2763' from DER, 20' left of centerline, up to 50' AGL/2598' MSL.
 Multiple trees beginning 4044' from DER, 233' left of centerline, 25' AGL/2784' MSL.
 Bush 134' from DER, 31.4' right of centerline, 6' AGL/2498' MSL.
 Tree 1598' from DER, 873' right of centerline, 25' AGL/2584' MSL.
 Multiple poles beginning 2756' from DER, 354' right of centerline, up to 50' AGL/2609' MSL.

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.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 17R: Climb heading 168° to intercept course 198° to CAVER, then on track 160° to DAWN, then on track 099° to CAPTA, then on track 073° to BAWWID, then on track 052° to cross ACSIN at or above 13000, then on track 069° to FLAMZ, thence. . . .

. . . via transition. Maintain FL190, expect filed altitude 10 minutes after departure.

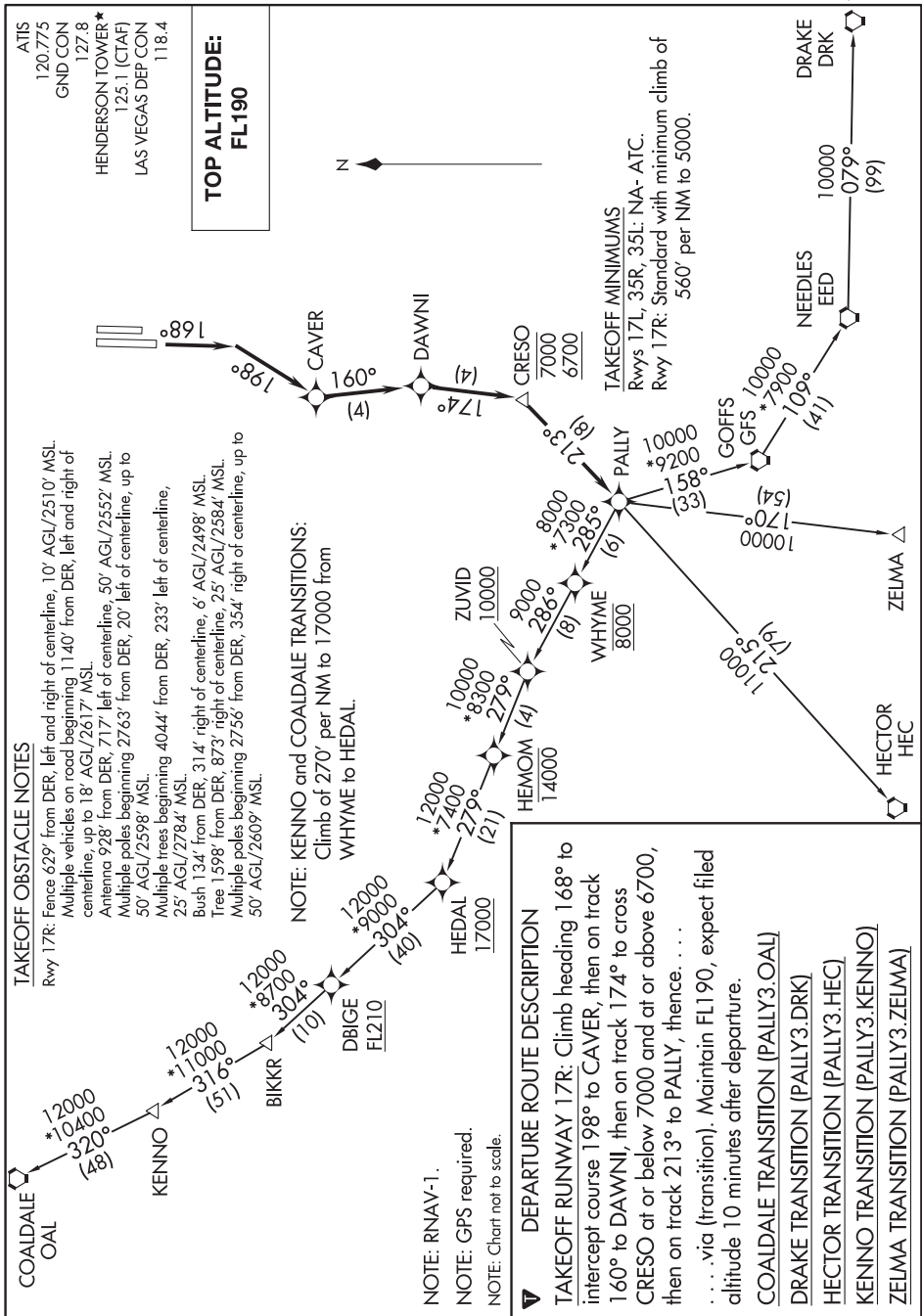
- FLAGSTAFF TRANSITION (FLAMZ3.FLG)
- GALLUP TRANSITION (FLAMZ3.GUP)
- WINSLOW TRANSITION (FLAMZ3.INW)

TAKEOFF MINIMUMS
 Rwys 17L, 35R, 35L: NA-ATC.
 Rwy 17R: Standard with a minimum climb of 560' per NM to 5000, then climb of 226' per NM to 13000.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



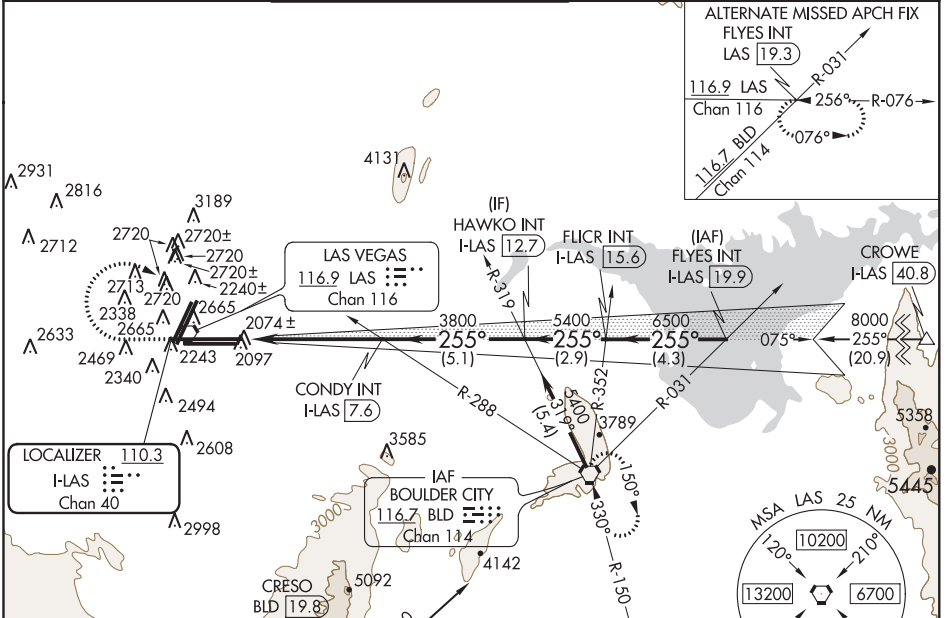
SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME H-LAS 110.3 Chan 40	APP CRS 255°	Rwy Idg 25R 12757 TDZE 2067 Apt Elev 2181	Rwy Idg 25L 10525 TDZE 2069 Apt Elev 2181
--	------------------------	--	--

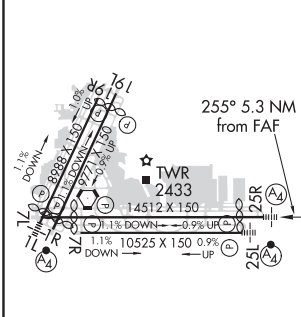
I LS or LOC RWY 25R

MC CARRAN INTL (LAS)

▽ Inop table does not apply to Sidestep 25L. For inop MALS increase S-ILS 25R visibility all Cats to 1 mile, and S-LOC 25R Cat D and E visibility to 1½ mile. ▲ MISSED APPROACH: Climb to 3200 then climbing right turn to 6000 direct BLD VORTAC and hold.	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 7L/25R, 7R/25L)	GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0	CPDLC
	MALS Rwy 25R 	MALSF Rwy 25L 				



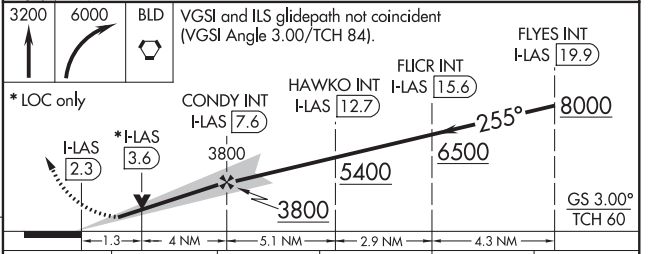
ELEV 2181	D TDZE 25R 2067	TDZE 25L 2069
-----------	------------------------	---------------



REIL Rws 1R, 7R, 19L and 19R
MIRL Rwy 1R-19L
HIRL Rws 1L-19R, 7L-25R and 7R-25L

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 25R	2359-¾ 292 (200-¾)				
S-LOC 25R	2560-¾ 493 (400-¾)	2560-1½ 493 (400-1½)			
SIDESTEP RWY 25L	2560-1 491 (400-1)	2560-1½ 491 (400-1½)	2560-2 491 (400-2)		
C CIRCLING	3080-1½ 899 (900-1½)	3100-2¾ 919 (1000-2¾)	3540-3 1359 (1400-3)		

SW-4, 10 NOV 2016 to 05 JAN 2017

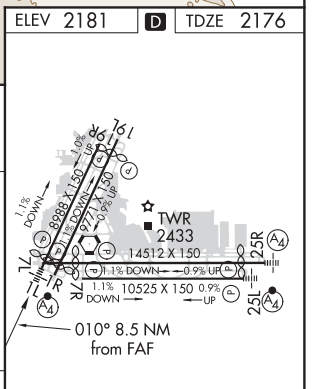
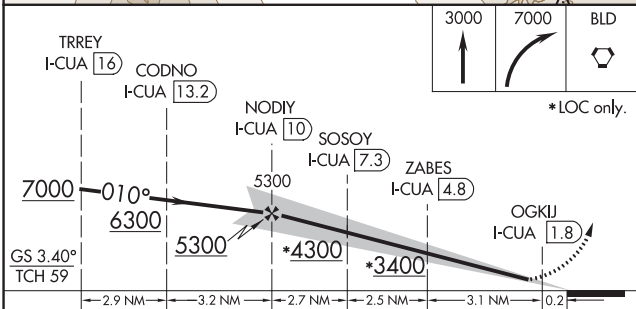
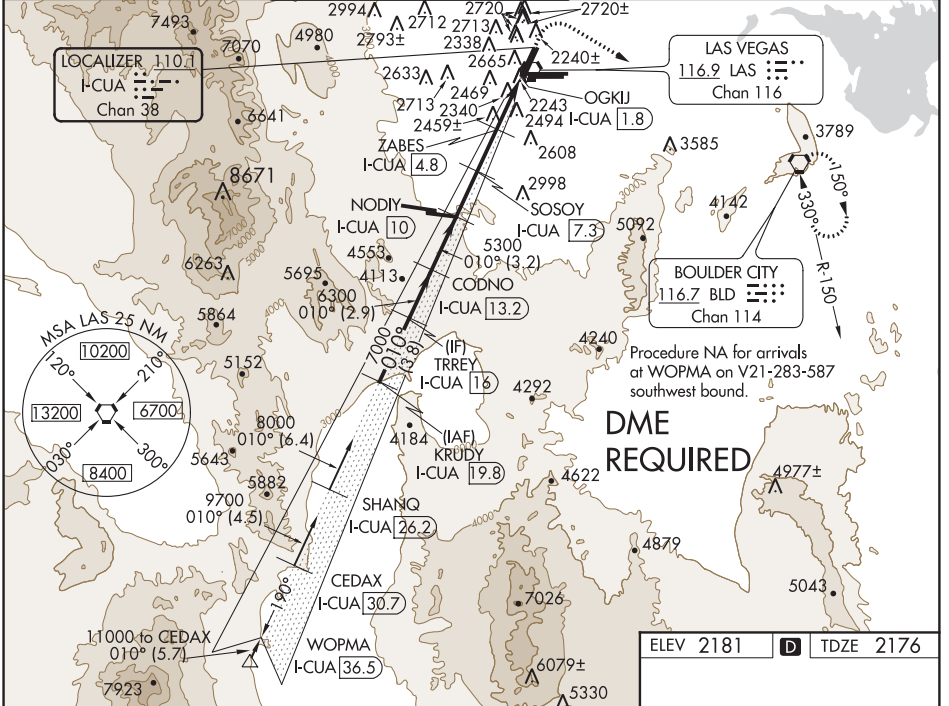
SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I- CUA	APP CRS	Rwy Idg 1L	8404
110.1	010°	TDZE	2176
Chan 38		Apt Elev	2181

ILS or LOC/DME RWY 1L

MC CARRAN INTL (LAS)

▽ △	Inoperative table does not apply to S-ILS 1L all Cats and S-LOC 1L Cats A/B. Helicopter visibility reduction below 1 SM not authorized.	MALSF	MISSED APPROACH: Climb to 3000, then climbing right turn to 7000 direct BLD VORTAC and hold, continue climb-in-hold to 7000.		
		ATIS	LAS VEGAS APP CON	LAS VEGAS TOWER	GND CON
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 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0	CPDLC



CATEGORY	A	B	C	D
S-ILS 1L	2460-1 284 (300-1)			NA
S-LOC 1L	2720-1 544 (600-1)		2720-1 5/8 544 (600-1 3/8)	NA
C CIRCLING	3080-1 1/4 899 (900-1 1/4)		3200-3 1019 (1100-3)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

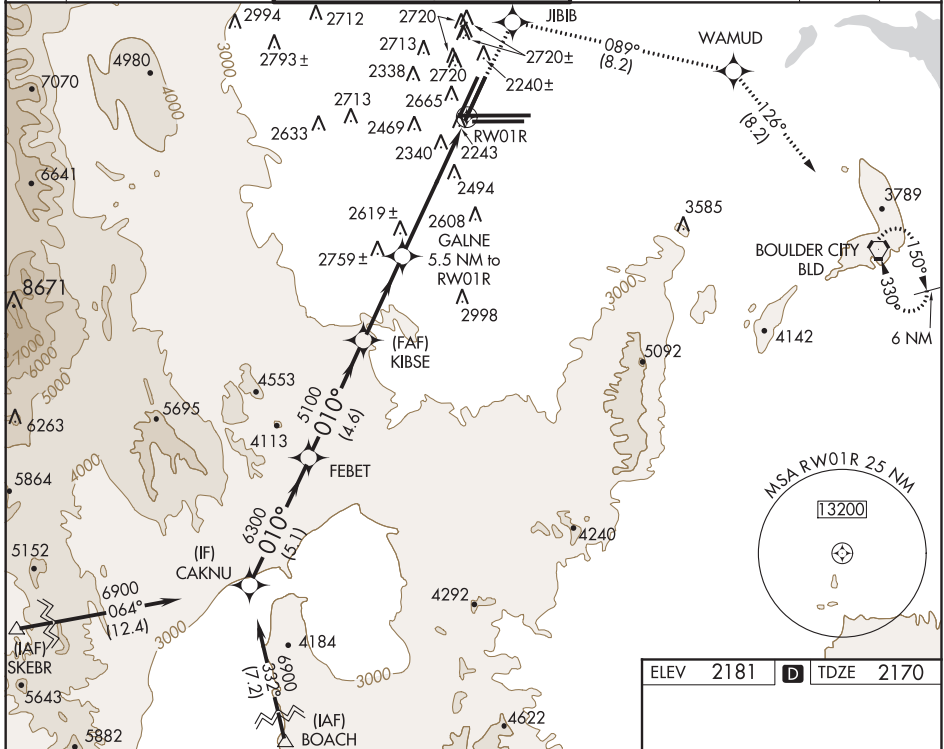
WAAS CH 42800 W01A	APP CRS 010°	Rwy Idg TDZE Apt Elev	8677 2170 2181
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 1R

MC CARRAN INTL (LAS)

⚠ DME/DME RNP-0.3 NA. MISSED APPROACH: Climb to 6000 direct JIBIB and via 089° track to WAMUD and via 126° track to BLD VORTAC and hold.

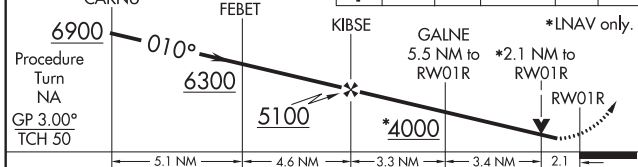
ATIS 132.4	LAS VEGAS APP CON 125.025 379.15 (West) 125.6 282.2 (East)	LAS VEGAS TOWER 118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0	CPDLC
----------------------	--	--	---	--------------------------	-------



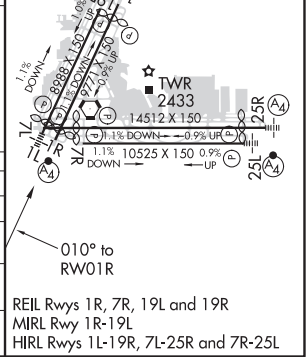
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 76).	ELEV 2181	D TDZE 2170
--	-----------	--------------------



CATEGORY	A	B	C	D
LPV DA	2693-1 $\frac{3}{4}$		523 (600-1 $\frac{3}{4}$)	
LNNAV/VNAV DA	NA			
LNNAV MDA	2920-1 750 (800-1)	2920-1 $\frac{1}{4}$ 750 (800-1 $\frac{1}{4}$)	2920-2 $\frac{1}{4}$ 750 (800-2 $\frac{1}{4}$)	2920-2 $\frac{1}{2}$ 750 (800-2 $\frac{1}{2}$)
CIRCLING	3080-1 $\frac{1}{4}$	899 (900-1 $\frac{1}{4}$)	3280-3	1099 (1100-3)



APP CRS	Rwy Idg	8400
201°	TDZE	2117
	Apt Elev	2181

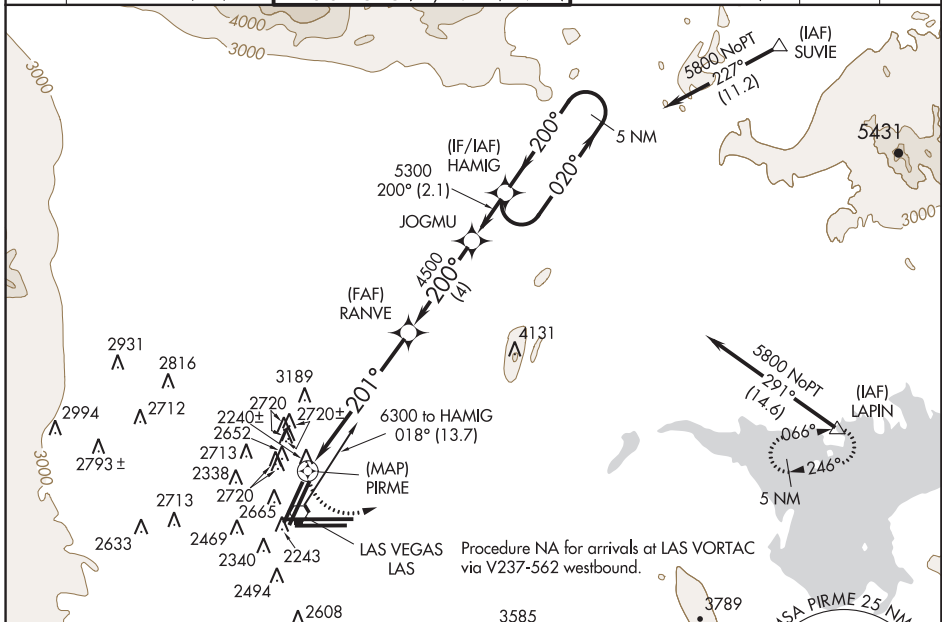
RNAV (GPS) RWY 19R

MC CARRAN INTL (LAS)

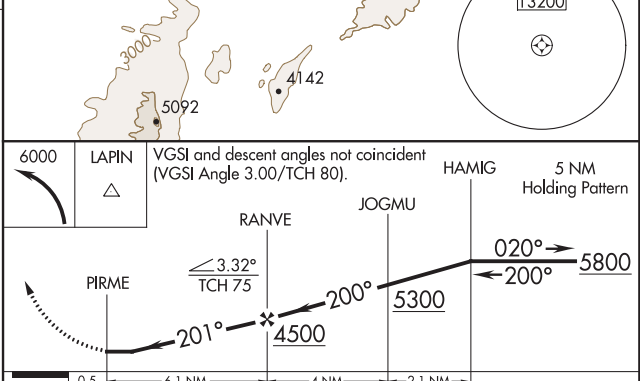
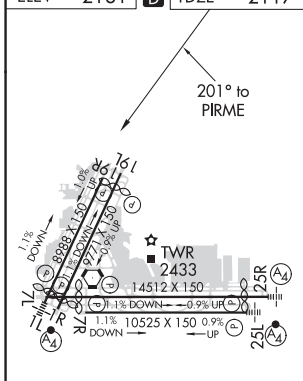
⚠ If local altimeter setting not received, use North Las Vegas altimeter setting and increase all MDAs 40 feet.
 DME/DME RNP-0.3 NA.
 Visibility reduction by helicopters NA.

⚠ MISSED APPROACH: Climbing left turn to 6000 direct LAPIN and hold.

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 7L/25R, 7R/25L)	121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	118.0	



ELEV	2181	TDZE	2117
------	-------------	------	-------------



REIL Rwy 1R, 7R, 19L and 19R				
MIRL Rwy 1R-19L				
HIRL Rwy 1L-19R, 7L-25R and 7R-25L				
CATEGORY	A	B	C	D
LNVA MDA	2980-1 863 (800-1)	2980-1¼ 863 (800-1¼)	2980-2½ 863 (800-2½)	2980-2¾ 863 (800-2¾)
CIRCLING	3080-1¼	899 (900-1¼)	3280-3	1099 (1100-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC LAS 116.9 Chan 116	APP CRS 262°	Rwy 25L Idg TDZE Apt Elev	10525 2069 2181	Rwy 25R Idg TDZE Apt Elev	12757 2067 2181
--	------------------------	---------------------------------	--	---------------------------------	--

VOR RWY 25L/R

MC CARRAN INTL (LAS)

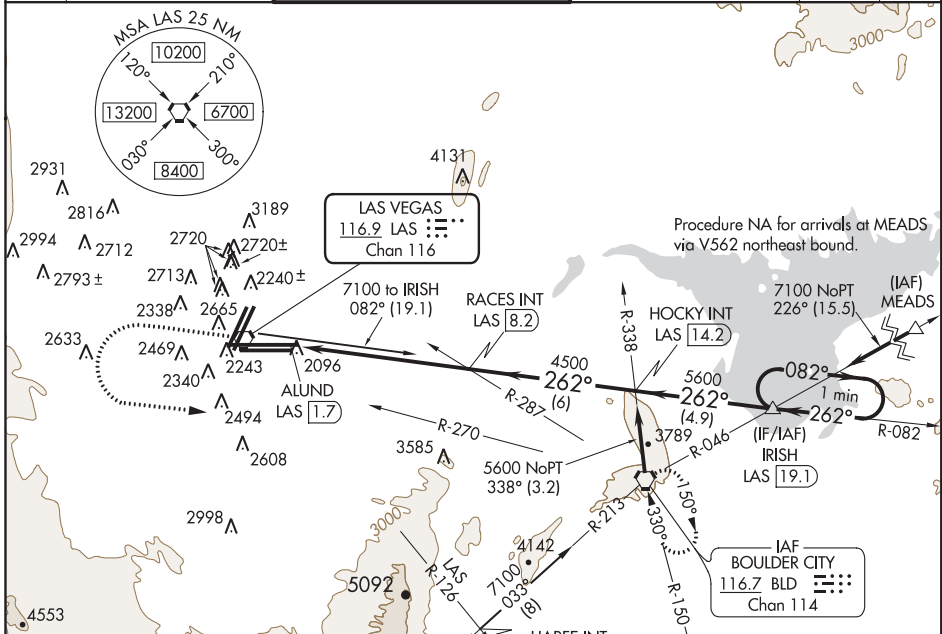
⚠ Inoperative table does not apply to MALSR Rwy 25R.
 Inoperative table does not apply to MALSF Rwy 25L Cat. C.

MALSF Rwy 25L

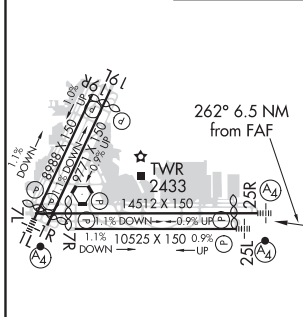
MALS Rwy 25R

MISSED APPROACH: Climb to 4000 then climbing left turn to 6000 via heading 070° and BLD R-270 to BLD VORTAC and hold.

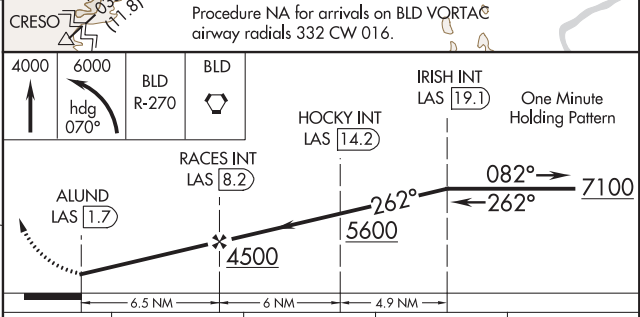
ATIS 132.4	LAS VEGAS APP CON 125.025 379.15 (West) 125.6 282.2 (East)	LAS VEGAS TOWER 118.75 257.8 (Rwy 1L/19R, 1R/19L) 119.9 257.8 (Rwy 7L/25R, 7R/25L)	GND CON 121.1 270.8 E of 1R/19L 121.9 254.3 W of 1R/19L	CLNC DEL 118.0	CPDLC
----------------------	--	--	---	--------------------------	-------



ELEV 2181	TDZE 25L 2069
	TDZE 25R 2067



REIL Rws 1R, 7R, 19L and 19R	MIRL Rwy 1R-19L	HIRL Rws 1L-19R, 7L-25R and 7R-25L			
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-25R	2720-1	653 (600-1)	2720-1¾ 653 (600-1¾)	2720-2 653 (600-2)
S-25L	2720-¾	651 (600-¾)	2720-1¾ 651 (600-1¾)	2720-2 651 (600-2)
CIRCLING	3080-1¼ 899 (900-1¼)		3280-3 1099 (1100-3)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(BOACH6.BOACH) 16091

BOACH SIX DEPARTURE (RNAV)

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 1L/R: Climb heading 010° to 2681, then left turn direct BESSY, then on track 186° to cross WITLA at or below 10000 and at or above 7900, then on track 187° to JEBBB, then on track 147° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 7L: Climb heading 075° to 2681, then direct WASTE, then on track 075° to cross BAKRR at or below 7000 and at or above 6000, then on track 144° to cross MINEY at or above 8000, then on track 210° to HITME, then on track 217° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 7R: Climb heading 075° to 2681, then direct JESJI, then on track 074° to cross BAKRR at or below 7000 and at or above 6000, then on track 144° to cross MINEY at or above 8000, then on track 210° to HITME, then on track 217° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 190° to 2681, then direct FIXIX, then on track 227° to cross ROPPR at or below 7000 and at or above 4800, then on track 170° to RODDD, then on track 160° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 190° to 2681, then direct JAKER, then on track 226° to cross ROPPR at or below 7000 and at or above 4800, then on track 170° to RODDD, then on track 160° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 255° to 2681, then direct PIRMD, then on track 186° to cross ROPPR at or below 7000 and at or above 4800, then on track 170° to RODDD, then on track 160° to cross BOACH at or above 13000. Thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 255° to 2681, then direct RBELL, then on track 186° to cross ROPPR at or below 7000 and at or above 4800, then on track 170° to RODDD, then on track 160° to cross BOACH at or above 13000. Thence. . . .

. . . . via (Transition) maintain FL190. Expect filed altitude 10 minutes after departure.

HECTOR TRANSITION (BOACH6.HEC)

TWENTYNINE PALMS TRANSITION (BOACH6.TNP)

TAKEOFF OBSTACLE NOTES

Rwy 1L: Building 1508' from DER, 463' left of centerline, 71' AGL/2146' MSL. Pole 453' from DER, 283' left of centerline, 38' AGL/2118' MSL. Sign 1042' from DER, 694' left of centerline, 35' AGL/2124' MSL.

Rwy 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.

Vents 604' from DER, 539' right of centerline, up to 17' AGL/2095' MSL.

Rwy 7L: Trees 761' from DER, left and right of centerline, up to 42' AGL/2074' MSL.

Pole 747' from DER, 442' right of centerline, 25' AGL/2057' MSL.

Rwy 7R: Tower 1457' from DER, 847' right of centerline, 65' AGL/2096' MSL.

Rwy 19L: Multiple buildings, trees and poles beginning 1394' from DER, 251' right of centerline, up to 96' AGL/2284' MSL. Sign 2181' from DER, 1062' right of centerline, 36' AGL/2236' MSL.

Rwy 19R: Trees beginning 1563' from DER, 329' left of centerline, up to 55' AGL/2236' MSL.

Multiple buildings, signs and poles beginning 197' from DER, 59' right of centerline, up to 75' AGL/2291' MSL.

Rwy 25L: Multiple poles, sign and buildings beginning 1003' from DER, 145' left of centerline, up to 97' AGL/2291' MSL. Tree 2837' from DER, 1008' left of centerline, 72' AGL/2230' MSL.

Railroad 2564' from DER, 773' left of centerline, 66' AGL/2223' MSL.

Rwy 25R: Multiple poles and trees beginning 533' from DER, 1' left of centerline, up to 271' AGL/2457' MSL.

Building 1822' from DER, 652' left of centerline, 59' AGL/2238' MSL. Roads beginning 669' from DER, 17' right of centerline, up to 29' AGL/2208' MSL.

BOACH SIX DEPARTURE (RNAV)

(BOACH6.BOACH) 30APR15

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

COWBY SIX DEPARTURE (RNAV)

SL-662 (FAA)

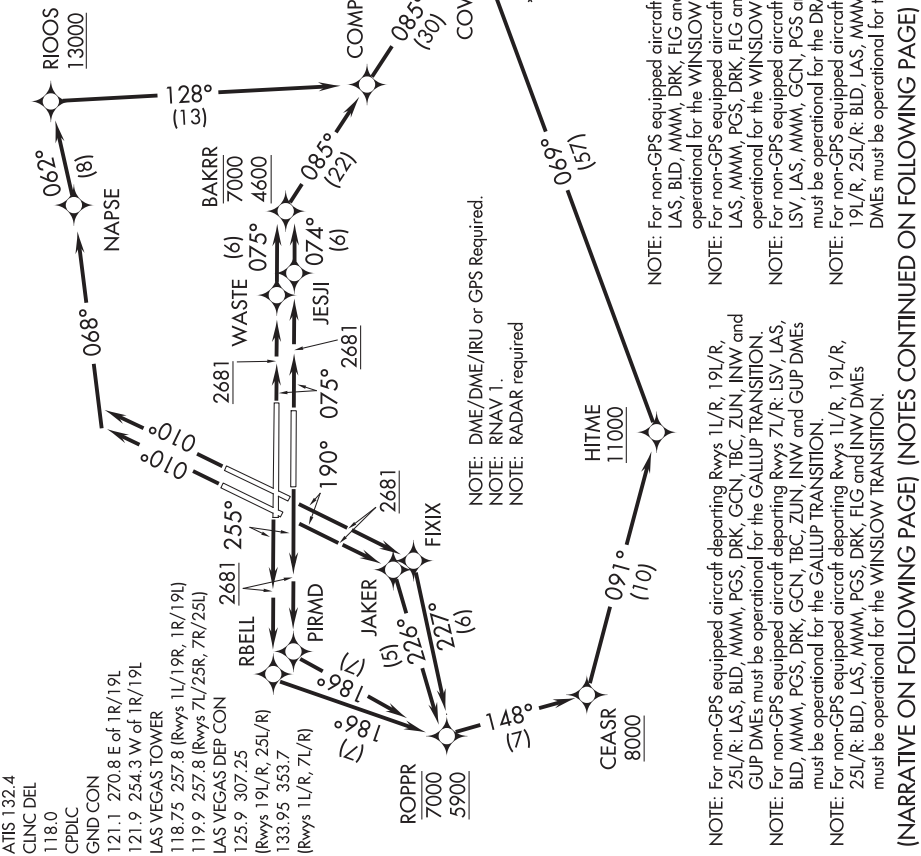
MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017

**TOP ALTITUDE:
FL190**

TAKEOFF MINIMUMS

- Rwys 1L/R: Standard with minimum climb of 483' per NM to 13000.
- Rwys 7L/R: Standard with minimum climb of 310' per NM to 7000.
- Rwys 19L/R: Standard with minimum climb of 400' per NM to 10000.
- Rwys 25L/R: Standard with minimum climb of 350' per NM to 11000.



- 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 7L/25R, 7R/25L)
- LAS VEGAS DEP CON
- 125.9 307.25
- (Rwys 19L/R, 25L/R)
- 133.95 353.7
- (Rwys 1L/R, 7L/R)

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

NOTE: For non-GPS equipped aircraft departing Rwy 7L, LSV, LAS, BLD, MMM, DRK, FLG and INW DMEs must be operational for the WINSLOW TRANSITION.
NOTE: For non-GPS equipped aircraft departing Rwy 7R, LSV, LAS, MMM, PGS, DRK, FLG and INW DMEs must be operational for the WINSLOW TRANSITION.
NOTE: For non-GPS equipped aircraft departing Rwy 7L/R, LSV, LAS, MMM, GCN, PGS and DRK DMEs must be operational for the WINSLOW TRANSITION.
NOTE: For non-GPS equipped aircraft departing Rwy 1L/R, 19L/R, 25L/R, BLD, LAS, MMM, GCN, PGS, and DRK DMEs must be operational for the WINSLOW TRANSITION.

NOTE: For non-GPS equipped aircraft departing Rwys 1L/R, 19L/R, 25L/R: LAS, BLD, MMM, PGS, DRK, GCN, TBC, ZUN, INW and GUP DMEs must be operational for the GALLOP TRANSITION.
NOTE: For non-GPS equipped aircraft departing Rwy 7L/R: LSV, LAS, BLD, MMM, PGS, DRK, GCN, TBC, ZUN, INW and GUP DMEs must be operational for the GALLOP TRANSITION.
NOTE: For non-GPS equipped aircraft departing Rwy 1L/R, 19L/R, 25L/R: BLD, LAS, MMM, PGS, DRK, FLG and INW DMEs must be operational for the WINSLOW TRANSITION.

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

(COWBY6.COWBY) 16091

COWBY SIX DEPARTURE (RNAV)

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA**DEPARTURE ROUTE DESCRIPTION**

TAKEOFF RUNWAYS 1L/R: Climb heading 010° to intercept course 068° to NAPSE, then on track 062° to cross RIOOS at or above 13000, then on track 128° to COMPS, then on track 085° to COWBY, thence. . . .

TAKEOFF RUNWAY 7L: Climb heading 075° to 2681, then direct WASTE, then on track 075° to cross BAKRR at or below 7000 and at or above 4600, then on track 085° to COMPS, then on track 085° to COWBY, thence. . . .

TAKEOFF RUNWAY 7R: Climb heading 075° to 2681, then direct JESJI, then on track 074° to cross BAKRR at or below 7000 and at or above 4600, then on track 085° to COMPS, then on track 085° to COWBY, thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 190° to 2681, then direct FIXIX, then on track 227° to cross ROPPR at or below 7000 and at or above 5900, then on track 148° to cross CEASR at or above 8000, then on track 091° to cross HITME at or above 11000, then on track 069° to COWBY, thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 190° to 2681, then direct JAKER, then on track 226° to cross ROPPR at or below 7000 and at or above 5900, then on track 148° to cross CEASR at or above 8000, then on track 091° to cross HITME at or above 11000, then on track 069° to COWBY, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 255° to 2681, then direct PIRMD, then on track 186° to cross ROPPR at or below 7000 and at or above 5900, then on track 148° to cross CEASR at or above 8000, then on track 091° to cross HITME at or above 11000, then on track 069° to COWBY, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 255° to 2681, then direct RBELL, then on track 186° to cross ROPPR at or below 7000 and at or above 5900, then on track 148° to cross CEASR at or above 8000, then on track 091° to cross HITME at or above 11000, then on track 069° to COWBY, thence. . . .

. . . . via (Transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (COWBY6.DRK)**GALLUP TRANSITION (COWBY6.GUP)****WINSLOW TRANSITION (COWBY6.INW)****TAKEOFF OBSTACLE NOTES**

- Rwy 1L: Building 1508' from DER, 463' left of centerline, 71' AGL/2146' MSL. Pole 453' from DER, 283' left of centerline, 38' AGL/2118' MSL. Sign 1042' from DER, 694' left of centerline, 35' AGL/2124' MSL.
- Rwy 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.
Vents 604' from DER, 539' right of centerline, up to 17' AGL/2095' MSL.
- Rwy 7L: Trees 761' from DER, left and right of centerline, up to 42' AGL/2074' MSL.
Pole 747' from DER, 442' right of centerline, 25' AGL/2057' MSL.
- Rwy 7R: Tower 1457' from DER, 847' right of centerline, 65' AGL/2096' MSL.
- Rwy 19L: Multiple buildings, trees and poles beginning 1394' from DER, 251' right of centerline, up to 96' AGL/2284' MSL. Sign 2181' from DER, 1062' right of centerline, 36' AGL/2236' MSL.
- Rwy 19R: Trees beginning 1563' from DER, 329' left of centerline, up to 55' AGL/2236' MSL.
Multiple buildings, signs and poles beginning 197' from DER, 59' right of centerline, up to 75' AGL/2291' MSL.
- Rwy 25L: Multiple poles, sign and buildings beginning 1003' from DER, 145' left of centerline, up to 97' AGL/2291' MSL. Tree 2837' from DER, 1008' left of centerline, 72' AGL/2230' MSL.
Railroad 2564' from DER, 773' left of centerline, 66' AGL/2223' MSL.
- Rwy 25R: Multiple poles and trees beginning 533' from DER, 1' left of centerline, up to 271' AGL/2457' MSL.
Building 1822' from DER, 652' left of centerline, 59' AGL/2238' MSL. Roads beginning 669' from DER, 17' right of centerline, up to 29' AGL/2208' MSL.

COWBY SIX DEPARTURE (RNAV)

(COWBY6.COWBY) 30APR15

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

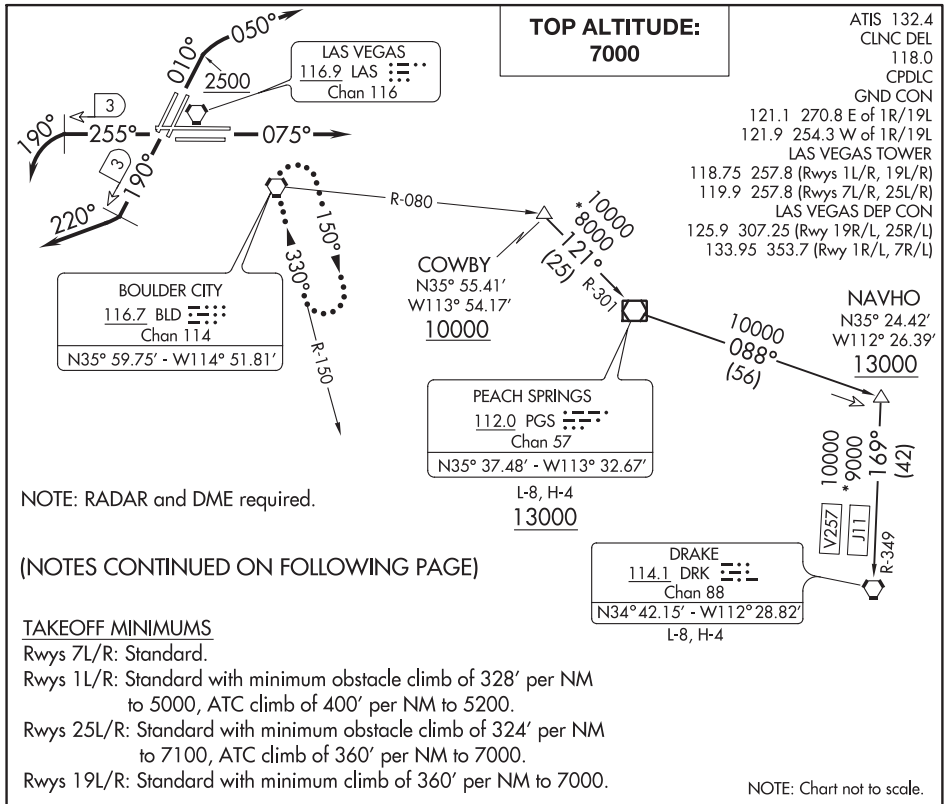
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

HOOVER FIVE DEPARTURE

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA



NOTE: RADAR and DME required.

(NOTES CONTINUED ON FOLLOWING PAGE)

TAKEOFF MINIMUMS

Rwys 7L/R: Standard.

Rwys 1L/R: Standard with minimum obstacle climb of 328' per NM to 5000, ATC climb of 400' per NM to 5200.

Rwys 25L/R: Standard with minimum obstacle climb of 324' per NM to 7100, ATC climb of 360' per NM to 7000.

Rwys 19L/R: Standard with minimum climb of 360' per NM to 7000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb via heading 010° to 2500, then climbing right turn via heading 050°, thence

TAKEOFF RUNWAYS 7L/R: Climb via heading 075°, thence

TAKEOFF RUNWAYS 19L/R: Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence

TAKEOFF RUNWAYS 25L/R: Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence

.... via RADAR vector 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 (HOOVR5.DRK): From over COWBY via PGS R-301 to PGS VOR/DME, then via PGS R-088 to NAVHO, then via DRK R-349 to DRK VORTAC.

PEACH SPRINGS TRANSITION (HOOVR5.PGS): From over COWBY via PGS R-301 to PGS VOR/DME.

HOOVER FIVE DEPARTURE

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

- Rwy 1L: Building 1508' from DER, 463' left of centerline, 71' AGL/2146' MSL.
Pole 453' from DER, 283' left of centerline, 38' AGL/2118' MSL.
Sign 1042' from DER, 694' left of centerline, 35' AGL/2124' MSL.
- Rwy 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.
Vents 604' from DER, 539' right of centerline, up to 17' AGL/2095' MSL.
- Rwy 7L: Trees 761' from DER, left and right of centerline, up to 42' AGL/2074' MSL.
Pole 747' from DER, 442' right of centerline, 25' AGL/2057' MSL.
- Rwy 7R: Tower 1457' from DER, 847' right of centerline, 65' AGL/2096' MSL.
- Rwy 19L: Multiple buildings, trees and poles 1394' from DER, 251' right of centerline,
up to 96' AGL/2284' MSL.
Sign 2181' from DER, 1062' right of centerline, 36' AGL/2236' MSL..
- Rwy 19R: Trees 1563' from DER, 329' left centerline, up to 55' AGL/2236' MSL.
Multiple buildings, signs and poles 197' from DER, 59' right of centerline,
up to 75' AGL/2291' MSL.
- Rwy 25L: Multiple poles, sign and buildings 1003' from DER, 145' left of centerline,
up to 97' AGL/2291' MSL.
Tree 2837' from DER, 1008' left centerline, 72' AGL/2230' MSL.
Railroad 2564' from DER, 773' left of centerline, 66' AGL/2223' MSL.
- Rwy 25R: Multiple poles and trees 533' from DER, 1' left of centerline, up to
271' AGL/2457' MSL.
Building 1822' from DER, 652' left of centerline, 59' AGL/2238' MSL.
Roads 669' from DER, 17' right of centerline, up to 29' AGL/2208' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 DEP CON
125.9 307.25 (Rwy 19R/L, 25R/L)
133.95 353.7 (Rwy 1R/L, 7R/L)

MILFORD
112.1 MLF
Chan 58
N38°21.62'-W113°00.79'

BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35'-W112°18.23'

DOVE CREEK
114.6 DVC
Chan 93
N37°48.53'-W108°55.88'
L-9, H-3

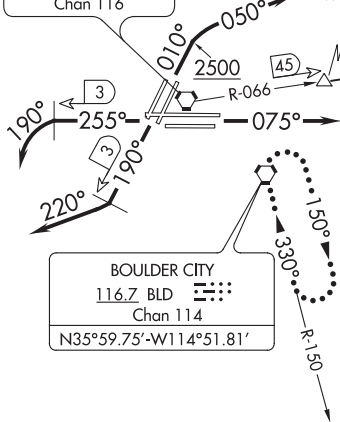
LAS VEGAS
116.9 LAS
Chan 116

TRALR
N36°11.62'
W114°14.68'
10000

FL260

FL270
053°
(1311)

PAGE
117.6 PGA
Chan 123
N36°55.86'-W111°26.85'



NOTE: RADAR and DME required.

(NOTES CONTINUED ON FOLLOWING PAGE)

TAKEOFF MINIMUMS

- Rwys 7L/R: Standard.
- Rwys 1L/R: Standard with minimum obstacle climb of 328' per NM to 5000, ATC climb of 400' per NM to 5200.
- Rwys 25L/R: Standard with minimum obstacle climb of 324' per NM to 7100, ATC climb of 360' per NM to 7000.
- Rwys 19L/R: Standard with minimum climb of 360' per NM to 7000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

- TAKEOFF RUNWAYS 1L/R:** Climb via heading 010° to 2500, then climbing right turn via heading 050°, thence
 - TAKEOFF RUNWAYS 7L/R:** Climb via heading 075°, thence
 - TAKEOFF RUNWAYS 19L/R:** Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence
 - TAKEOFF RUNWAYS 25L/R:** Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence
- via RADAR vector 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 (LAS4.DVC):** From over TRALR INT on LAS R-066 to NICLE INT, then on PGA R-234 to PGA VOR/DME, then on PGA R-053 and DVC R-233 to DVC VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

- RWY 1L: Multiple buildings 3954' from DER, 1 NM left of centerline, up to 283' AGL/2409' MSL.
Pole 450' from DER, 283' left of centerline, 38' AGL/2118' MSL.
Obstacle light on wind sock 248' from DER, 224' right of centerline, 50' AGL/2104' MSL.
Pole 1029' from DER, 715' left of centerline, 85' AGL/2124' MSL.
Tree 1536' from DER, 502' left of centerline, 100' AGL/2132' MSL.
- RWY 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL
Building 599' from DER, 541' right of centerline, 70' AGL/2096' MSL
Multiple buildings 4878' from DER, 1.2 NM left of centerline, up to 283' AGL/2409' MSL.
- RWY 25R: Light pole 3115' from DER, 1033' right of centerline, 109' AGL/2301' MSL.
Light on pole 1.5 NM from DER, 2836' left of centerline, 124' AGL/2457' MSL.
Road 1.7 NM from DER, 2965' left of centerline, 139' AGL/2469' MSL.
Light on pole 1100' from DER, 508' left of centerline, 47' AGL/2226' MSL.
Building 1822' from DER, 652' left of centerline, 46' AGL/2238' MSL.
Building 2202' from DER, 596' left of centerline, 44' AGL/2246' MSL.
Rod on building 534' from DER, 369' left of centerline, 33' AGL/2202' MSL.
Road 678' from DER, 16' right of centerline, 35' AGL/2201' MSL.
Light on localizer antenna 533' from DER, 32' AGL/2195' MSL.
- RWY 25L: Pole 2860' from DER, 813' left of centerline, 57' AGL/2236' MSL.
Sign 3672' from DER, 1302' left of centerline, 57' AGL/2256' MSL.
Antenna on building 1002' from DER, 251' left of centerline, 34' AGL/2183' MSL.
Pole 3677' from DER, 146' left of centerline, 67' AGL/2249' MSL.
- RWY 7L: Tree 1257' from DER, 789' left of centerline, 85' AGL/2077' MSL.
Light pole 747' from DER, 441' right of centerline, 62' AGL/2057' MSL.
Tree 1007' from DER, 557' right of centerline, 70' AGL/2062' MSL.
- RWY 7R: Light on wind sock 102' from DER, 300' right of centerline, 30' AGL/2051' MSL.
- RWY 19L: Pole 1394' from DER, 533' right of centerline, 36' AGL/2236' MSL.
Sign 2181' from DER, 1062' right of centerline, 50' AGL/2256' MSL.
Rod on building 2921' from DER, 581' right of centerline, 50' AGL/2262' MSL.
Pole 2633' from DER, 319' right of centerline, 40' AGL/2246' MSL.
- RWY 19R: Pole 1135' from DER, 619' right of centerline, 65' AGL/2249' MSL.
Pole 756' from DER, 618' right of centerline, 50' AGL/2231' MSL.
Sign 2182' from DER, 126' right of centerline, 50' AGL/2256' MSL.
Pole 1396' from DER, 403' left of centerline, 55' AGL/2236' MSL.
Rod on building 197' from DER, 441' right of centerline, 30' AGL/2202' MSL.
Rod on building 2922' from DER, 356' left of centerline, 50' AGL/2262' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MCCARRAN FOUR DEPARTURE

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

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 (Rwy 1L/19R, 1R/19L)
119.9 257.8 (Rwy 7L/25R, 7R/25L)
LAS VEGAS DEP CON
125.9 307.25

BEATTY
114.7 BTY Chan 94
N36°48.04'
W116°44.86'
L-9, H-4

TOP ALTITUDE:
7000

LAS VEGAS
116.9 LAS Chan 116

BOULDER CITY
116.7 BLD Chan 114
N35°59.75'
W114°51.81'

SHEAD
N35° 53.74'
W115° 58.27'
12500

NOTE: RADAR and DME required.

NOTE: Rwys 1L/R 3189' MSL monument, 2.7 NM north of DER, 2660' MSL building, 1 NM northwest of DER.

HECTOR
112.7 HEC Chan 74
N34° 47.82'
W116° 27.78'
L-7, H-4

WHIGG
N35° 30.48'
W115° 31.42'
10000

BOACH
N35° 40.69'
W115° 17.68'
8200

GOFFS
114.4 GFS Chan 91
N35° 07.87'
W115° 10.59'

JOTNU
N34° 19.55'
W115° 31.77'

TWENTYNINE PALMS
114.2 TNP Chan 89
N34° 06.73' - W115° 46.19'
L-4, H-4

TAKEOFF MINIMUMS

- Rwys 1L/R: 1100-3 with minimum climb of 529' per NM to 7000.
- Rwys 19L/R: Standard with minimum climb of 360' per NM to 7000.
- Rwys 25L/R: Standard with minimum obstacle climb of 324' per NM to 7100, ATC climb of 360' per NM to 7000.
- Rwys 7L/R: Standard with minimum ATC climb of 440' per NM to 7000.

TAKEOFF OBSTACLE NOTES

- RWY 1L: Pole 450' from DER, 283' left of centerline, 38' AGL/2118' MSL.
Obstacle light on wind sock 248' from DER, 224' right of centerline, 50' AGL/2104' MSL.
Pole 1029' from DER, 715' left of centerline, 85' AGL/2124' MSL.
Tree 1536' from DER, 502' left of centerline, 100' AGL/2132' MSL.
- RWY 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL.
Building 599' from DER, 541' right of centerline, 70' AGL/2096' MSL

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

NOTE: Chart not to scale.

MCCARRAN FOUR DEPARTURE

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb via heading 010° to 2500, then climbing left turn via heading 315° to 4500, then climbing left turn via heading 180°, thence

TAKEOFF RUNWAYS 7L/R: Climb via heading 075°, thence

TAKEOFF RUNWAYS 19L/R: Climb via heading 190° until LAS VORTAC 3 DME, then right turn via heading 220°, thence

TAKEOFF RUNWAYS 25L/R: Climb via heading 255° until LAS VORTAC 3 DME, then left turn via heading 190°, thence

....via RADAR vectors to transition or assigned route, maintain 7000, expect clearance to filed altitude 2 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 (MCCRN4.BTY): From over SHEAD INT on BTY R-129 to BTY VORTAC.

HECTOR TRANSITION (MCCRN4.HEC): From over BOACH INT on BLD R-213 and HEC R-032 to HEC VORTAC.

TWENTY NINE PALMS TRANSITION (MCCRN4.TNP): From over GFS VORTAC on GFS R-185 to JOTNU INT, then on TNP R-028 to TNP VORTAC.

TAKEOFF OBSTACLE NOTES (CONTINUED)

RWY 25R: Light pole 3115' from DER, 1033' right of centerline, 109' AGL/2301' MSL.

Light on pole 1.5 NM from DER, 2836' left of centerline, 124' AGL/2457' MSL.

Light pole 1.7 NM from DER, 2965' left of centerline, 139' AGL/2469' MSL.

Light on pole 1100' from DER, 508' left of centerline, 47' AGL/2226' MSL.

Building 1822' from DER, 652' left of centerline, 46' AGL/2238' MSL.

Building 2202' from DER, 596' left of centerline, 44' AGL/2246' MSL.

Rod on building 534' from DER, 369' left of centerline, 33' AGL/2202' MSL.

Road 678' from DER, 16' right of centerline, 35' AGL/2201' MSL.

Light on localizer antenna 533' from DER, on centerline, 32' AGL/2195' MSL.

RWY 25L: Pole 2860' from DER, 813' left of centerline, 57' AGL/2236' MSL.

Sign 3672' from DER, 1302' left of centerline, 57' AGL/2256' MSL.

Antenna on building 1002' from DER, 251' left of centerline, 34' AGL/2183' MSL.

Pole 3677' from DER, 145' left of centerline, 67' AGL/2249' MSL.

RWY 7L: Tree 1257' from DER, 789' left of centerline, 85' AGL/2077' MSL.

Light pole 747' from DER, 441' right of centerline, 62' AGL/2057' MSL.

Tree 1007' from DER, 557' right of centerline, 50' AGL/2231' MSL.

RWY 7R: Light on wind sock 102' from DER, 300' right of centerline, 30' AGL/2051' MSL.

RWY 19L: Pole 1394' from DER, 533' right of centerline, 36' AGL/2236' MSL.

Sign 2181' from DER, 1062' right of centerline, 50' AGL/2256' MSL.

Rod on building 2921' from DER, 581' right of centerline, 50' AGL/2262' MSL.

Pole 2633' from DER, 319' right of centerline, 40' AGL/2246' MSL.

RWY 19R: Pole 1135' from DER, 619' right of centerline, 65' AGL/2249' MSL.

Pole 756' from DER, 618' right of centerline, 50' AGL/2231' MSL.

Sign 2182' from DER, 125' right of centerline, 50' AGL/2256' MSL.

Pole 1396' from DER, 403' left of centerline, 55' AGL/2236' MSL.

Rod on building 197' from DER, 441' right of centerline, 30' AGL/2202' MSL.

Rod on building 2922' from DER, 356' left of centerline, 50' AGL/2262' MSL.

(PRFUM3.PRFUM) 16091

PRFUM THREE DEPARTURE (RNAV)

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 19L: Climb via 190° course to FIXIX, then via 227° track to cross ROPPR at or below 7000, then via 148° track to cross CEASR at or above 8000, then via 091° track to cross HITME at or above 11000, then via 070° track to WINDS, then via 108° track to cross KADDY at or above FL200, then via 108° track to PRFUM, thence....

TAKEOFF RUNWAY 19R: Climb via 190° course to JAKER, then via 226° track to cross ROPPR at or below 7000, then via 148° track to cross CEASR at or above 8000, then via 091° track to cross HITME at or above 11000, then via 070° track to WINDS, then via 108° track to cross KADDY at or above FL200, then via 108° track to PRFUM, thence....

TAKEOFF RUNWAY 25L: Climb via 255° course to PIRMD, then via 186° track to cross ROPPR at or below 7000, then via 148° track to cross CEASR at or above 8000, then via 091° track to cross HITME at or above 11000, then via 070° track to WINDS, then via 108° track to cross KADDY at or above FL200, then via 108° track to PRFUM, thence....

TAKEOFF RUNWAY 25R: Climb via 255° course to RBELL, then via 186° track to cross ROPPR at or below 7000, then via 148° track to cross CEASR at or above 8000, then via 091° track to cross HITME at or above 11000, then via 070° track to WINDS, then via 108° track to cross KADDY at or above FL200, then via 108° track to PRFUM, thence....

...via (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

DRAKE TRANSITION (PRFUM3.DRK)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

PRFUM THREE DEPARTURE (RNAV)

(PRFUM3.PRFUM) 30APR15

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

SHEAD NINE DEPARTURE (RNAV)

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: FL190

TAKEOFF MINIMUMS

- Rwys 1L/R: 1100-3 with minimum climb of 500' per NM to 6000.
- Rwys 7L/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 25L/R: Standard with minimum climb of 470' per NM to 9000.

NOTE: Rwys 1L/R do not exceed 230 KIAS until BESSY.

NOTE: DME/DME/IRU or GPS required.

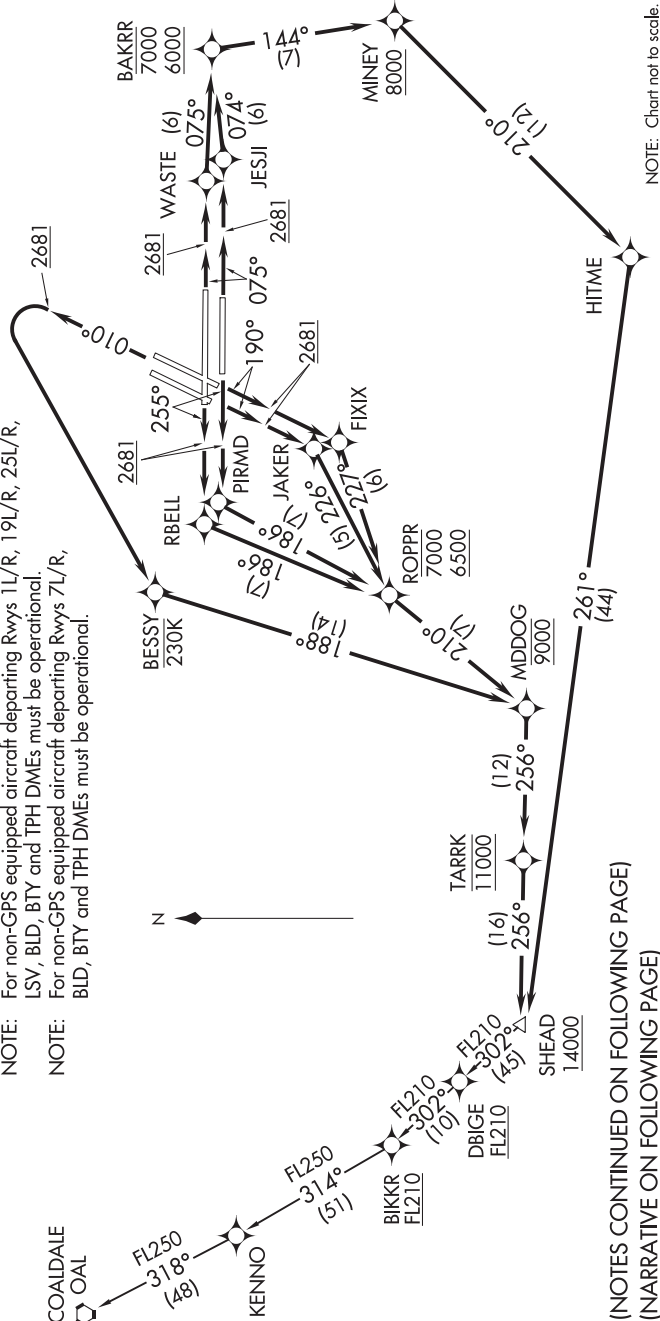
NOTE: RNAV 1.

NOTE: RADAR required.

NOTE: For non-GPS equipped aircraft departing Rwys 1L/R, 19L/R, 25L/R, LSV, BLD, BTY and TPH DMEs must be operational.

NOTE: For non-GPS equipped aircraft departing Rwys 7L/R, BLD, BTY and TPH DMEs must be operational.

ATIS 132.4
 CLNC DEL 118.0
 CPDLC
 GND CON
 121.1 270.8 (E of 1R/19L)
 LAS VEGAS TOWER
 121.9 254.3 (W of 1R/19L)
 118.75 257.8 (Rwys 1L/19R, 1R/19L)
 119.9 257.8 (Rwys 7L/25R, 7R/25L)
 LAS VEGAS DEP CON
 125.9 307.25



SHEAD NINE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

(SHEAD9.SHEAD) 16091

SHEAD NINE DEPARTURE (RNAV)

SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 010° to 2681, then left turn direct BESSY, then on track 188° to cross MDDOG at 9000, then on track 256° to cross TARRK at 11000, then on track 256° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 7L: Climb heading 075° to 2681, then direct WASTE, then on track 075° to cross BAKRR at or above 6000, at or below 7000, then on track 144° to cross MINEY at or above 8000, then on track 210° to HITME, then on track 261° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 7R: Climb heading 075° to 2681, then direct JESJI, then on track 074° to cross BAKRR at or above 6000, at or below 7000, then on track 144° to cross MINEY at or above 8000, then on track 210° to HITME, then on track 261° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 19L: Climb heading 190° to 2681, then direct FIXIX, then on track 227° to cross ROPPR at or above 6500, at or below 7000, then on track 210° to cross MDDOG at 9000, then on track 256° to cross TARRK at 11000, then on track 256° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 19R: Climb heading 190° to 2681, then direct JAKER, then on track 226° to cross ROPPR at or above 6500, at or below 7000, then on track 210° to cross MDDOG 9000, then on track 256° to cross TARRK at 11000, then on track 256° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 25L: Climb heading 255° to 2681, then direct PIRMD, then on track 186° to cross ROPPR at or above 6500, at or below 7000, then on track 210° to cross MDDOG at 9000, then on track 256° to cross TARRK at 11000, then on track 254° to cross SHEAD at or above 14000. Thence. . .

TAKEOFF RUNWAY 25R: Climb heading 255° to 2681, then direct RBELL, then on track 186° to cross ROPPR at or above 6500, at or below 7000, then on track 210° to cross MDDOG at 9000, then on track 256° to cross TARRK at 11000, then on track 256° to cross SHEAD at or above 14000. Thence. . .

. . . (Transition). Maintain FL190. Expect filed altitude 10 minutes after departure.

COALDALE TRANSITION (SHEAD9.OAL)

KENNO TRANSITION (SHEAD9.KENNO)

TAKEOFF OBSTACLE NOTES

- Rwy 1L: Building 1508' from DER, 463' left of centerline, 71' AGL/2146' MSL. Pole 453' from DER, 283' left of centerline, 38' AGL/2118' MSL. Sign 1042' from DER, 694' left of centerline, 35' AGL/2124' MSL.
- Rwy 1R: Sign 1331' from DER, 448' right of centerline, 60' AGL/2120' MSL. Vents 604' from DER, 539' right of centerline, up to 17' AGL/2095' MSL.
- Rwy 7L: Trees 761' from DER, left and right of centerline, up to 42' AGL/2074' MSL. Pole 747' from DER, 442' right of centerline, 25' AGL/2057' MSL.
- Rwy 7R: Tower 1457' from DER, 847' right of centerline, 65' AGL/2096' MSL.
- Rwy 19L: Multiple buildings, trees and poles 1394' from DER, 251' right of centerline, up to 96' AGL/2284' MSL. Sign 2181' from DER, 1062' right of centerline, 36' AGL/2236' MSL.
- Rwy 19R: Trees 1563' from DER, 329' left of centerline, up to 55' AGL/2236' MSL. Multiple buildings, signs and poles 197' from DER, 59' right of centerline, up to 75' AGL/2291' MSL.
- Rwy 25L: Multiple poles, sign and buildings 1003' from DER, 145' left of centerline, up to 97' AGL/2291' MSL. Tree 2837' from DER, 1008' left of centerline, 72' AGL/2230' MSL. Railroad 2564' from DER, 773' left of centerline, 66' AGL/2223' MSL.
- Rwy 25R: Multiple poles and trees 533' from DER, 1' left of centerline, up to 271' AGL/2457' MSL. Building 1822' from DER, 652' left of centerline, 59' AGL/2238' MSL. Roads 669' from DER, 17' right of centerline, up to 29' AGL/2208' MSL.

SHEAD NINE DEPARTURE (RNAV)

(SHEAD9.SHEAD) 30APR15

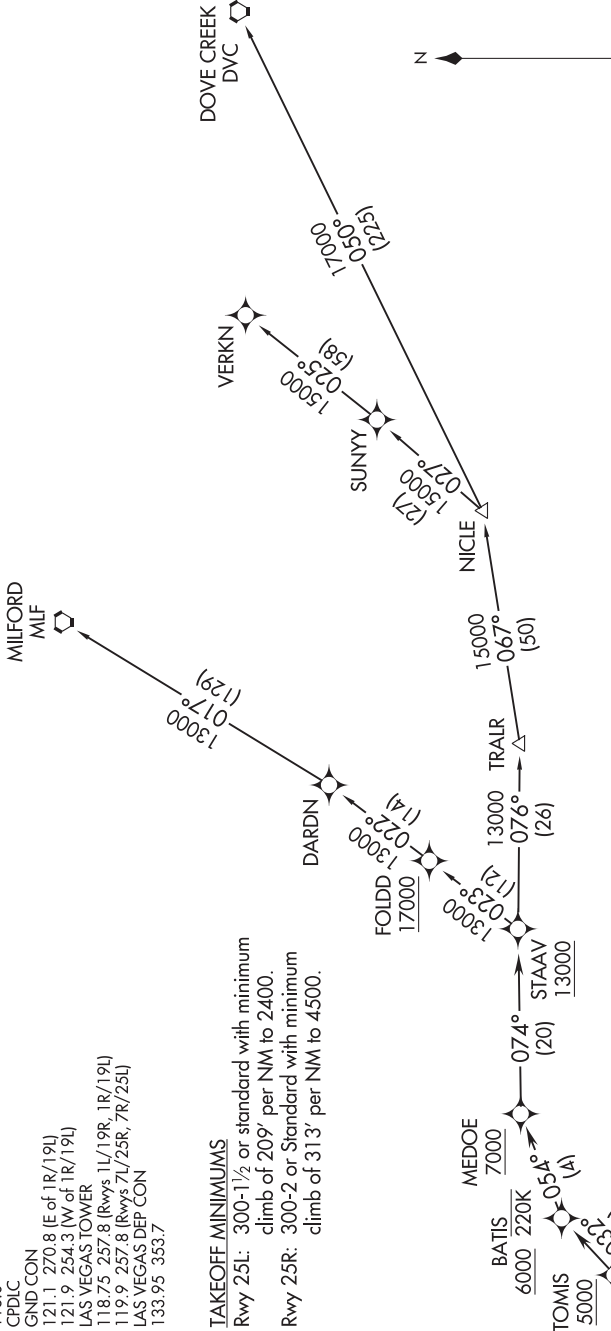
LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

STAAV SEVEN DEPARTURE (RNAV)

**TOP ALTITUDE:
FL190**



NOTE: DME/DME/IRU or GPS required.
 NOTE: RNAV 1.
 NOTE: RADAR required.
 NOTE: Takeoff Rwys 25L/R, do not exceed 220 KTS until BATTIS.

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

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

STAAV SEVEN DEPARTURE (RNAV)

STAAV SEVEN DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 25R: Climb heading 255° to 2682, then direct LEELN, then on track 332° to cross TOMIS at or above 5000, then on track 032° to cross BATIS at or above 6000, then on track 054° to cross MEDOE at or above 7000, then on track 074° to cross STAAV at or above 13000. Thence . . .

TAKEOFF RUNWAY 25L: Climb heading 255° to 2682, then direct POOLZ, then on track 333° to cross TOMIS at or above 5000, then on track 032° to cross BATIS at or above 6000, then on track 054° to cross MEDOE at or above 7000, then on track 074° to cross STAAV at or above 13000. Thence . . .

. . . on (transition) maintain FL190, expect filed altitude 10 minutes after departure.

DOVE CREEK TRANSITION (STAAV7.DVC)

MILFORD TRANSITION (STAAV7.MLF)

VERKN TRANSITION (STAAV7.VERKN)

(CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

STAAV SEVEN DEPARTURE (RNAV)

TAKEOFF OBSTACLE NOTES

- Rwy 25R: Obstacle light on DME, NAVAID, building, beginning 533' from DER, 367' left of centerline, up to 2206' MSL.
 NAVAID, Obstacle light on LOC, beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL.
 Vehicle on road 665' from DER, crossing centerline, 2208' MSL.
 Pole 785' from DER, 592' left of centerline, 2218' MSL.
 Pole, tree, beginning 785' from DER, 8' left of centerline, up to 2220' MSL.
 Trees, beginning 820' from DER, 49' right of centerline, up to 25' AGL/2214' MSL.
 Pole, sign, tree, building beginning 873' from DER, 348' 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 1092' from DER, 531' left of centerline, up to 38' AGL/2237' MSL.
 Trees beginning 1559' from DER, 554' right of centerline, up to 2259' MSL.
 Tree, building, railroad beginning 1811' from DER, 192' left of centerline, up to 2246' MSL.
 Building 2500' from DER, 882' left of centerline, 2254' MSL.
 Pole beginning 3001' from DER, 544' left of centerline, up to 44' AGL/2271' MSL.
 Pole beginning 3004' from DER, 770' left of centerline, up to 48' AGL/2277' MSL.
 Pole beginning 3116' from DER, 1021' right of centerline, up to 2309' MSL.
 Sign beginning 3338' from DER, 279' left of centerline, up to 2286' MSL.
 Communication tower 4521' from DER, 703' right of centerline, 2332' MSL.
 Pole 1.4 NM from DER, 2804' left of centerline, 100' AGL/2444' MSL.
 Pole beginning 1.5 NM from DER, 2835' left of centerline, up to 100' AGL/2455' MSL.
 Pole, communication tower beginning 1.6 NM from DER, 2072' left of centerline, up to 100' AGL/2463' MSL.
 Pole 1.7 NM from DER, 2964' left of centerline, 135' AGL/2469' MSL.
- Rwy 25L: Building 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL.
 Railroad, pole beginning 1856' from DER, 794' left of centerline, up to 2215' MSL.
 Railroad 2067' 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 2375' from DER, 781' left of centerline, up to 2232' MSL.
 Tree, railroad beginning 2527' from DER, 751' left of centerline, up to 2233' MSL.
 Pole 2860' from DER, 812' left of centerline, 36' AGL/2238' MSL.
 Pole beginning 3166' from DER, 1092' left of centerline, up to 34' AGL/2243' MSL.
 Pole beginning 3312' from DER, 1201' left of centerline, up to 35' AGL/2246' MSL.
 Sign, pole, transmission line tower beginning 3672' from DER, 146' left of centerline, up to 2256' MSL.
 Pole beginning 4223' from DER, 1394' left of centerline, up to 2274' MSL.
 Building 4554' from DER, 1594' left of centerline, 2277' MSL.
 Building 4686' from DER, 1686' left of centerline, 53' AGL/2279' MSL.
 Building 4718' from DER, 1756' left of centerline, 61' AGL/2290' MSL.
 Building 4953' from DER, 1696' left of centerline, 61' AGL/2291' MSL.
 Transmission tower 5469' from DER, 1057' left of centerline, 2297' MSL.
 Pole beginning 5703' from DER, 2020' right of centerline, up to 101' AGL/2309' MSL.
 Pole 5887' from DER, 1923' left of centerline, 45' AGL/2311' MSL.
 Pole 5889' from DER, 1722' left of centerline, 46' AGL/2311' MSL.
 Tower 1 NM from DER, 1845' left of centerline, 80' AGL/2332' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

STAAV SEVEN DEPARTURE (RNAV)

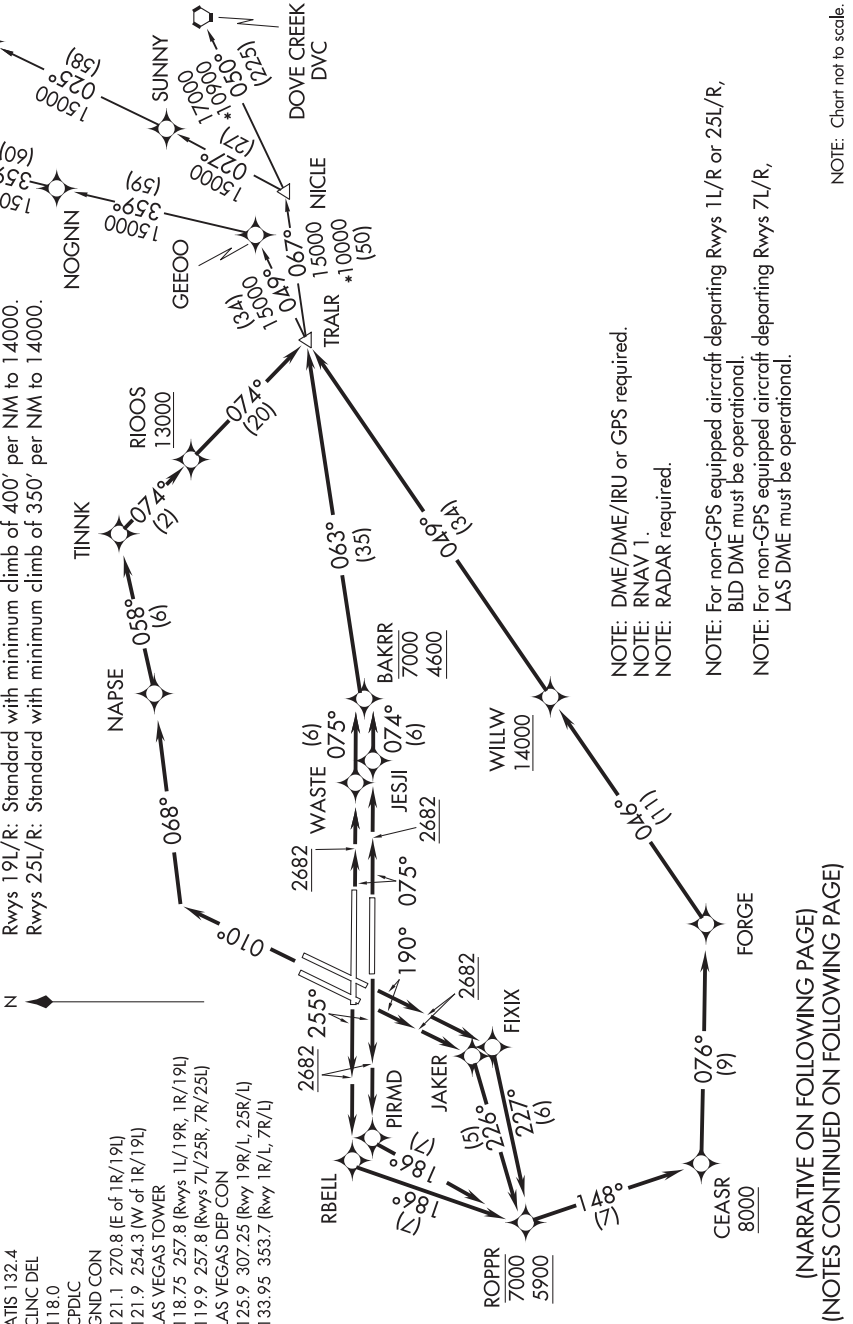
SW-4, 10 NOV 2016 to 05 JAN 2017

**TOP ALTITUDE:
FL190**

- ATIS 132.4
- CLINC 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 7L/25R, 7R/25L)
- LAS VEGAS DEP CON
- 125.9 307.25 (Rwy 19R/L, 25R/L)
- 133.95 353.7 (Rwy 1R/L, 7R/L)

TAKEOFF MINIMUMS

- Rwys 1L/R: Standard with minimum climb of 321' per NM to 5100.
- Rwys 7L/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 25L/R: Standard with minimum climb of 350' per NM to 14000.



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

NOTE: For non-GPS equipped aircraft departing Rwys 1L/R or 25L/R,
 BLD DME must be operational.
 NOTE: For non-GPS equipped aircraft departing Rwys 7L/R,
 LAS DME must be operational.

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

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

TRALR SEVEN DEPARTURE (RNAV) SL-662 (FAA)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 1L/R: Climb heading 010° to intercept course 068° to NAPSE, then on track 058° to TINNK, then on track 074° to cross RIOOS at or above 13000, then on track 074° to TRALR, thence. . . .

TAKEOFF RUNWAY 7L: Climb heading 075° to 2682, then direct WASTE, then on track 075° to cross BAKRR at or above 4600, at or below 7000, then on track 063° to TRALR, thence. . . .

TAKEOFF RUNWAY 7R: Climb heading 075° to 2682, then direct JESJI, then on track 074° to cross BAKRR at or above 4600, at or below 7000, then on track 063° to TRALR, thence. . . .

TAKEOFF RUNWAY 19L: Climb heading 190° to 2682, then direct FIXIX, then on track 227° to cross ROPPR at or above 5900, at or below 7000, then on track 148° to cross CEASR at or above 8000, then on track 076° to FORGE, then on track 046° to cross WILLW at or above 14000, then on track 049° to TRALR, thence. . . .

TAKEOFF RUNWAY 19R: Climb heading 190° to 2682, then direct JAKER, then on track 226° to cross ROPPR at or above 5900, at or below 7000, then on track 148° to cross CEASR at or above 8000, then on track 076° to FORGE, then on track 046° to cross WILLW at or above 14000, then on track 049° to TRALR, thence. . . .

TAKEOFF RUNWAY 25L: Climb heading 255° to 2682, then direct PIRMD, then on track 186° to cross ROPPR at or above 5900, at or below 7000, then on track 148° to cross CEASR at or above 8000, then on track 076° to FORGE, then on track 046° to cross WILLW at or above 14000, then on track 049° to TRALR, thence. . . .

TAKEOFF RUNWAY 25R: Climb heading 255° to 2682, then direct RBELL, then on track 186° to cross ROPPR at or above 5900, at or below 7000, then on track 148° to cross CEASR at or above 8000, then on track 076° to FORGE, then on track 046° to cross WILLW at or above 14000, then on track 049° to TRALR, thence. . . .

. . . .on (Transition) maintain FL190, expect filed altitude 10 minutes after departure.

DOVE CREEK TRANSITION (TRALR7.DVC)

MILFORD TRANSITION (TRALR7.MLF)

VERKN TRANSITION (TRALR7.VERKN)

TAKEOFF OBSTACLE NOTES

Rwy 1L: REIL 23' from DER, 153' left of centerline, 3' AGL/2090' MSL. Sign beginning 1037' from DER, 694' left of centerline, up to 2125' MSL. Bldg 1556' from DER, 551' left of centerline, 2129' MSL. Bldg 1779' from DER, 648' left of centerline, 2147' MSL. Bldgs beginning 1907' from DER, 186' left of centerline, up to 2150' MSL. Bldgs, beginning 1977' from DER, 214' left of centerline, up to 2150' MSL. Bldgs beginning 1983' from DER, 251' left of centerline, up to 2150' MSL. Bldg 2093' from DER, 333' left of centerline, 78' AGL/2150' MSL. Bldgs, beginning 2095' from DER, 274' left of centerline, up to 83' AGL/2153' MSL. Bldgs, beginning 3953' from DER, 1396' left of centerline, up to 162' AGL/2226' MSL. Bldg 4126' from DER, 1089' left of centerline, 2229' MSL. Bldg 4542' from DER, 1399' left of centerline, 183' AGL/2240' MSL. Bldg 4604' from DER, 1365' left of centerline, 186' AGL/2243' MSL.

(NOTES CONTINUED ON FOLLOWING PAGE)

TRALR SEVEN DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(TRALR7.TRALR) 16315

TRALR SEVEN DEPARTURE (RNAV) SL-662 (FAA)

MC CARRAN INTL (LAS)
LAS VEGAS, NEVADATAKEOFF OBSTACLE NOTES

- Rwy 1R: Sign 1336 from DER, 447' left of centerline, 60' AGL/2122' MSL.
Bldg 609' from DER 539' right of centerline, 28' AGL/2095' MSL.
- Rwy 7L: Pole 744' from DER, 442' right of centerline, 30' AGL/2057' MSL.
Tree 758' from DER, 168' right of centerline, 2068' MSL. Tree 768' from DER,
589' left of centerline, 2060' MSL. Tree 850' from DER, 184' left of centerline,
2067' MSL. Trees, beginning 886' from DER, 372' right of centerline, up to 2074' MSL.
- Rwy 7R: Tower 1457' from DER, 849' left of centerline, 64' AGL/2097' MSL.
- Rwy 19L: Ground 60' from DER, 475' right of centerline, 2186' MSL. Ground 151' from DER, 529' right
of centerline, 2190' MSL. Building beginning 193' from DER, 443' right of centerline, up to 9'
AGL/2199' MSL. Obstacle light on DME, Navaid, beginning 261' from DER, 407' right of
centerline, up to 2206' MSL. Vehicles on road, Ground, control box, beginning 348' from DER,
41' right of centerline, up to 2208' MSL. Pole, vehicles on road, beginning 502' 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. Sign, building, pole, tree,
beginning 844' from DER, 265' right of centerline, up to 41' AGL/2240' MSL. Tower, fence,
Sign beginning 961' from DER, 175' right of centerline, up to 41' AGL/2243' MSL. Transmisison
line Tower, pole, rail road, rail road crossing sign, vehicles on parking lot, beginning 1132'
from DER, 7' right of centerline, up to 47' AGL/2249' MSL. Railroad beginning 1219' from
DER, 448' left of centerline, up to 2225' MSL. Rail road, pole beginning 1247' from DER, 76' left
of centerline, up to 2226' MSL. Tree, poles, sign beginning 1392' from DER, 14' left of centerline,
up to 36' AGL/2238' MSL. Poles, tree, vehicles on parking lot, building beginning 1726' from
DER, 10' right of centerline, up to 2254' MSL. Pole, tree, beginning 1822' from DER, 79' left of
centerline, up to 34' AGL/2243' MSL. Obstacle light, 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, buildings, tree, beginning 2043' from DER, 220' right of
centerline, up to 2255' MSL. Pole, tree, beginning 2133' from DER, 20' left of centerline, up to
36' AGL/2247' MSL. Tree, poles, sign, building, beginning 2146' from DER, 13' right of
centerline, up to 2259' MSL. Pole, building, tree, beginning 2234' from DER, 13' 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, pole, building beginning 2381' from DER, 38' left of centerline, up to
41' AGL/2257' MSL. Pole, Building, tree, Building beginning 2496' from DER, 5' right of
centerline, up to 2274' MSL. Buildings beginning 2738' 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. Buildings beginning 2767' from DER, 45' left of centerline, up to 36' AGL/
2258' MSL. Buildings, tree, beginning 2893' from DER, 6' right of centerline, up to 2288' MSL.
Buildings beginning 2895' from DER, 3' left of centerline, up to 39' AGL/2262' MSL. Buildings,
tree, beginning 3032' from DER, 300' right of centerline, up to 61' AGL/2290' MSL. Buildings,
tree, pole, beginning 3076' from DER, 57' right of centerline, up to 61' AGL/2291' MSL.
Buildings, sign, poles, beginning 3459' from DER, 286' right of centerline, up to 74' AGL/2302'
MSL. Building 3495' from DER, 54' left of centerline, 52' AGL/2278' MSL. Communication
tower 5717' from DER, 157' left of centerline, 80' AGL/2327' MSL. Building 5358' from DER,
1759' left of centerline, 110' AGL/2334' MSL.
- Rwy 19R: Building 609' from DER, 538' right of centerline, 28' AGL/2095' MSL. Sign 1336' from DER,
447' right of centerline, 60' AGL/2122' MSL.

(NOTES CONTINUED ON FOLLOWING PAGE)

TRALR SEVEN DEPARTURE (RNAV)

(TRALR7.TRALR) 10NOV16

LAS VEGAS, NEVADA
MC CARRAN INTL (LAS)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

Rwy 25L: Building, 1002' from DER, 250' left of centerline, 6' AGL/2183' MSL. Railroad, pole beginning 1856' from DER, 794' left of centerline, up to 2215' MSL. Railroad 2067' 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 2375' from DER, 781' left of centerline, up to 2232' MSL. Tree, railroad, beginning 2527' from DER, 751' left of centerline, up to 2233' MSL. Pole 2860' from DER, 812' left of centerline, 36' AGL/2238' MSL. Pole, beginning 3166' from DER, 1092' left of centerline, up to 34' AGL/2243' MSL. Pole, beginning 3312' from DER, 1201' left of centerline, up to 35' AGL/2246' MSL. Sign, pole, Transmission Line Tower, beginning 3672' from DER, 146' left of centerline, up to 2256' MSL. Pole, beginning 4223' from DER, 1394' left of centerline, up to 2274' MSL. Bldg 4554' from DER, 1594' left of centerline, 2277' MSL. Bldg 4686' from DER, 1686' left of centerline, 53' AGL/2279' MSL. Bldg 4718' from DER, 1756' left of centerline, 61' AGL/2290' MSL. Bldg 4953' from DER, 1696' left of centerline, 61' AGL/2291' MSL. Transmission Tower 5469' from DER, 1057' left of centerline, 2297' MSL. Pole, beginning 5703' from DER, 2020' right of centerline, up to 101' AGL/2309' MSL. Pole 5887' from DER, 1923' left of centerline, 45' AGL/2311' MSL. Pole 5889' from DER, 1722' left of centerline, 46' AGL/2311' MSL. Tower, 1 NM from DER, 1845' left of centerline, 80' AGL/2332' MSL.

Rwy 25R: Obstacle light on DME, Navaid, Bldg, beginning 533' from DER, 367' left of centerline, up to 2206' MSL. Navaid, Obstacle light on LOC, beginning 533' from DER, on centerline, up to 5' AGL/2195' MSL. Vehicle on road, 665' from DER, crossing centerline, 2208' MSL. Pole 785' from DER, 592' left of centerline, 2218' MSL. Pole tree, beginning 785' from DER, 8' left of centerline, up to 2220' MSL. Trees beginning 820' from DER, 49' right of centerline, up to 25' AGL/2214' MSL. Pole sign, tree, building beginning 873' from DER, 348' 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 1092' from DER, 531' left of centerline, up to 38' AGL/2237' MSL. Trees, beginning 1559' from DER, 554' right of centerline, up to 2259' MSL. Tree, building, railroad, beginning 1811' from DER, 192' left of centerline, up to 2246' MSL. Bldg 2500' from DER, 882' left of centerline, 2254' MSL. Pole, beginning 3001' from DER, 544' left of centerline, up to 44' AGL/2271' MSL. Pole, beginning 3004' from DER, 770' left of centerline, up to 48' AGL/2277' MSL. Pole beginning 3116' from DER, 1021' right of centerline, up to 2309' MSL. Sign, beginning 3338' from DER, 279' left of centerline, up to 2286' MSL. Communication Tower 4521' from DER, 703' right of centerline, 2332' MSL. Pole 1.4 NM from DER, 2804' left of centerline, 100' AGL/2444' MSL. Pole, beginning 1.5 NM from DER, 2835' left of centerline, up to 100' AGL/2455' MSL. Pole, communication Tower, beginning 1.6 NM from DER, 2072' left of centerline, up to 100' AGL/2463' MSL. Pole 1.7 NM from DER, 2964' left of centerline, 135' AGL/2469' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LAS VEGAS, NEVADA

AL-6970 (FAA)

16147

LOC/DME I-HWGW 110.7 Chan 44	APP CRS 120°	Rwy Idg TDZE Apt Elev	4203 2189 2205
--	------------------------	-----------------------------	---

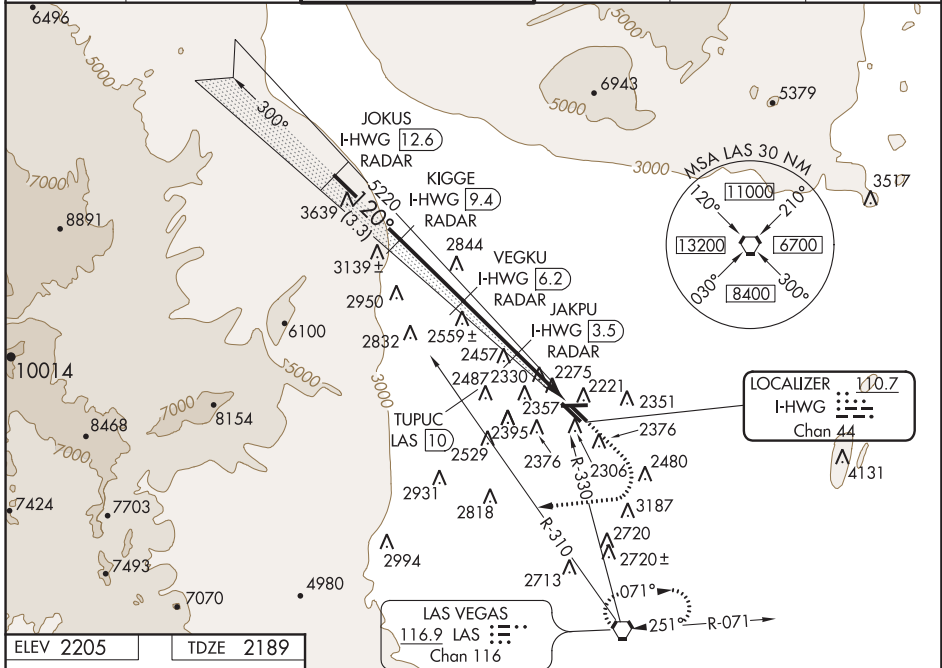
ILS or LOC RWY 12L

NORTH LAS VEGAS (VGT)

⚠ 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. DME and RADAR required.

⚠ 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.

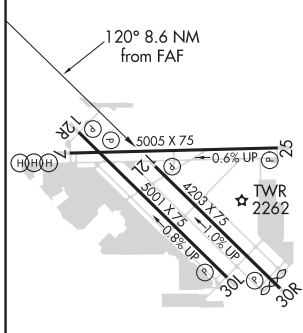
ATIS 118.05	LAS VEGAS APP CON 119.4 360.85	NORTH LAS VEGAS TOWER* 125.7 (CTAF) 360.75	GND CON 121.7	CLNC DEL 124.0	UNICOM 122.95
-----------------------	--	--	-------------------------	--------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 2205	TDZE 2189
-----------	-----------

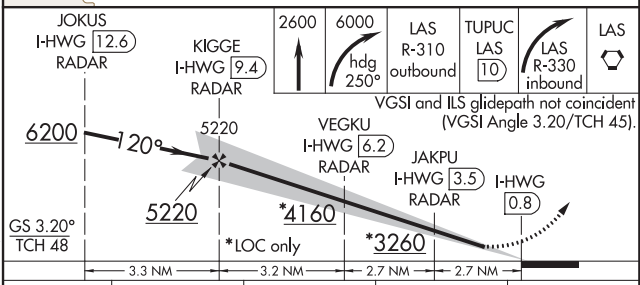


REIL all Rwys
MIRL all Rwy **1**

FAF to MAP 8.6 NM

Knots	60	90	120	150	180
Min:Sec	8:36	5:44	4:18	3:26	2:52

DME and RADAR REQUIRED



CATEGORY	A	B	C	D
S-ILS 12L	2456-1	267 (300-1)		NA
S-LOC 12L	2580-1	391 (400-1)		NA
CIRCLING	2680-1	475 (500-1)		NA

LAS VEGAS, NEVADA
Orig-C 13JAN11

36°13'N-115°12'W

NORTH LAS VEGAS (VGT)

ILS or LOC RWY 12L

APP CRS	Rwy Idg	5001
135°	TDZE	2205
	Apt Elev	2205

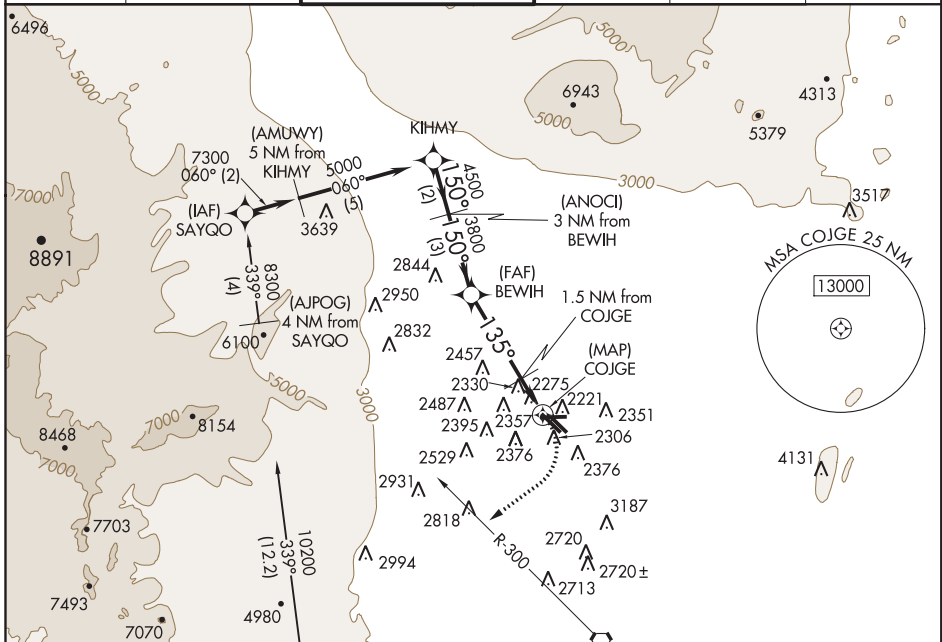
GPS RWY 12R

NORTH LAS VEGAS (VGT)

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 118.05	LAS VEGAS APP CON 119.4 360.85	NORTH LAS VEGAS TOWER* 125.7 (CTAF) 360.75	GND CON 121.7	CLNC DEL 124.0	UNICOM 122.95
-----------------------	--	--	-------------------------	--------------------------	-------------------------

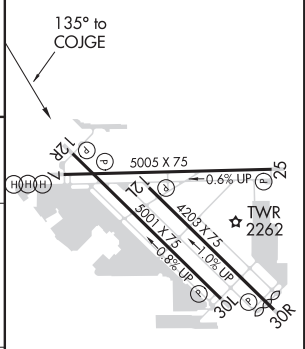


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 2205	TDZE 2205
-----------	-----------



Procedure Turn NA	KIHMY VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 25).		4000	LAS R-300	LAS
	5000	4500	3800	2720	COIJE
	2 NM	3 NM	3.5 NM	1.5 NM	

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	2760-2 555 (600-2)

REIL all Rwys
MIRL all Rwys

LAS VEGAS, NEVADA

AL-6970 (FAA)

16147

APP CRS	Rwy Idg	5001
285°	TDZE	2191
	Apt Elev	2205

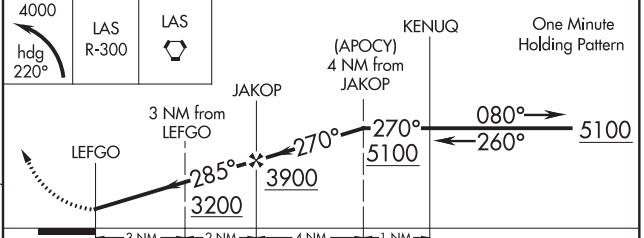
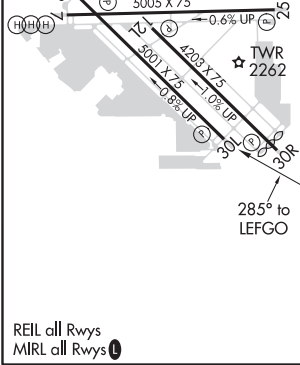
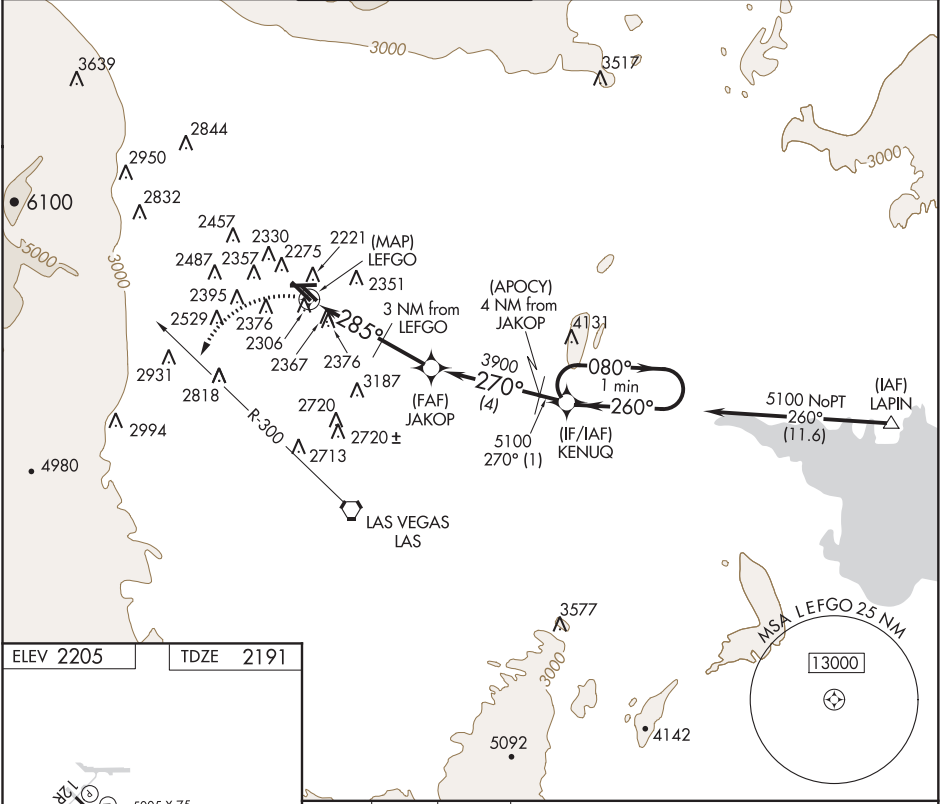
GPS RWY 30L

NORTH LAS VEGAS (VGT)

NA When local altimeter setting not received, use McCarron 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 118.05	LAS VEGAS APP CON 119.4 360.85	NORTH LAS VEGAS TOWER * 125.7 (CTAF) 360.75	GND CON 121.7	CLNC DEL 124.0	UNICOM 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)

LAS VEGAS, NEVADA
Orig-B 01NOV01

36°13'N-115°12'W

NORTH LAS VEGAS (VGT) GPS RWY 30L

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

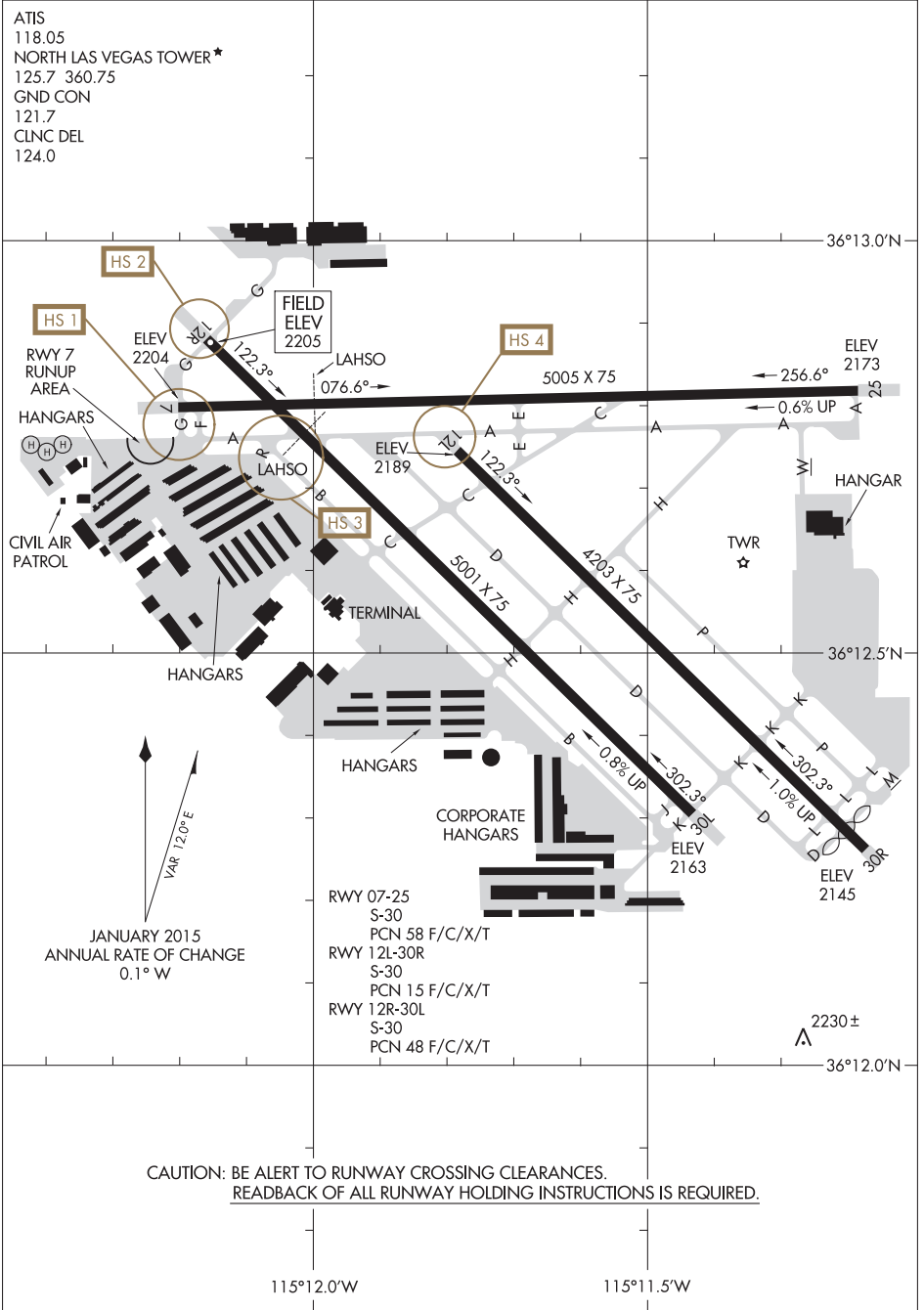
AL-6970 (FAA)

NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA

ATIS
118.05
NORTH LAS VEGAS TOWER ★
125.7 360.75
GND CON
121.7
CLNC DEL
124.0

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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

AIRPORT DIAGRAM

LAS VEGAS, NEVADA
NORTH LAS VEGAS (VGT)

(BLD1.BLD) 16315

BOULDER CITY ONE DEPARTURE (OBSTACLE)

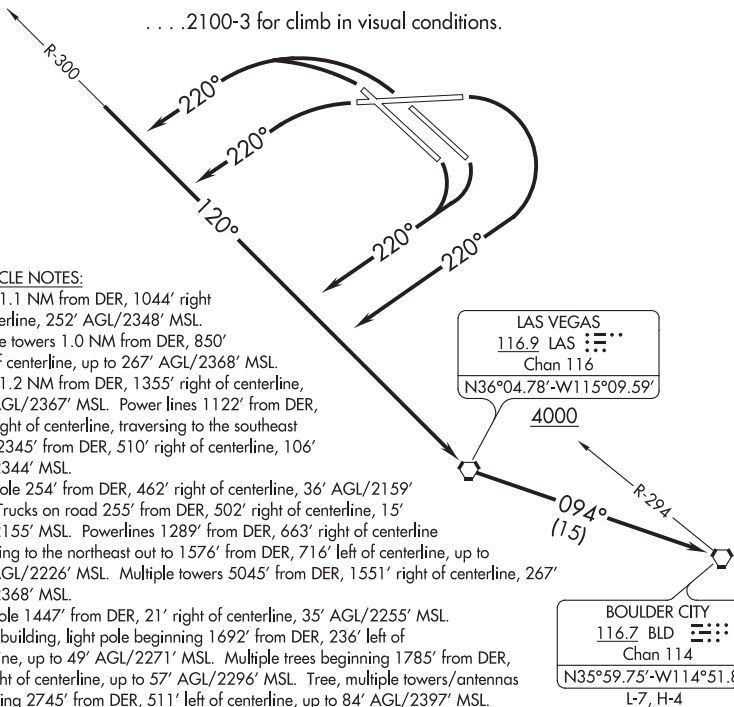
NORTH LAS VEGAS (VGT)
SL-6970 (FAA) LAS VEGAS, NEVADA

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. Powerlines 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 tower 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.

BOULDER CITY ONE DEPARTURE (OBSTACLE)

(BLD1.BLD) 14FEB08

LAS VEGAS, NEVADA
NORTH LAS VEGAS (VGT)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(NOTWN4.LAS) 16315

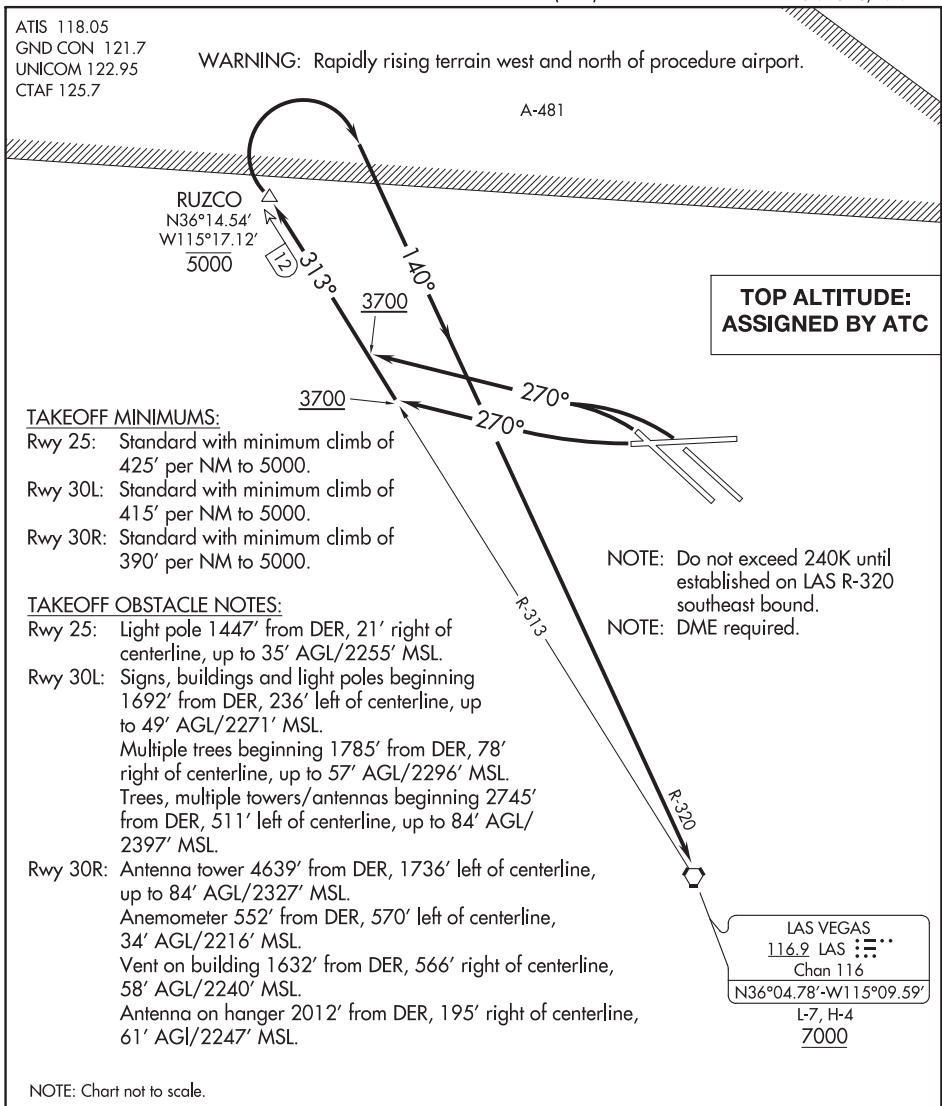
NORTHTOWN FOUR DEPARTURE

SL-6970 (FAA)

NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA

ATIS 118.05
GND CON 121.7
UNICOM 122.95
CTAF 125.7

WARNING: Rapidly rising terrain west and north of procedure airport.



**TOP ALTITUDE:
ASSIGNED BY ATC**

TAKEOFF MINIMUMS:

- 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.

TAKEOFF OBSTACLE NOTES:

- Rwy 25: Light pole 1447' from DER, 21' right of centerline, up to 35' AGL/2255' MSL.
- Rwy 30L: Signs, buildings and light poles 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.
Trees, 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, up to 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.

- NOTE: Do not exceed 240K until established on LAS R-320 southeast bound.
- NOTE: DME required.

LAS VEGAS
116.9 LAS
Chan 116
N36°04.78'-W115°09.59'
L-7, H-4
7000

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climbing right turn heading 270° to intercept LAS R-313 at or above 3700, thence. . .

TAKEOFF RWYS 30L/R: Climbing left turn heading 270° and right turn to intercept LAS R-313 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.

NORTHTOWN FOUR DEPARTURE

(NOTWN4.LAS) 25JUN15

LAS VEGAS, NEVADA
NORTH LAS VEGAS (VGT)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(RTRRN2.LAS) 16315

RIGHTTURN TWO DEPARTURE

SL-6970 (FAA)

NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA

ATIS 118.05
GND CON 121.7
UNICOM 122.95
CTAF 125.7

WARNING: Rapidly rising terrain west and north of procedure.

A-481

RUZCO
N36°14.54'
W115°17.12'
5000
3700

**TOP ALTITUDE:
ASSIGNED BY ATC**

NOTE: Do not exceed 240K until established on LAS R-320 southeast bound.
NOTE: DME required.

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 a minimum climb of 379' per NM to 3600.

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, up to 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.

LAS VEGAS
116.9 LAS :
Chan 116
N36°04.78'-W115°09.59'
L-7, H-4
7000

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 7 and 12L/R: Climbing right turn on heading 250° and right turn to intercept LAS R-313 northwest bound to cross RUZCO at or above 3700, at or below 5000, then climbing right turn to intercept LAS R-320 southeast bound to LAS VORTAC. Cross LAS VORTAC at or above 7000.

RIGHTTURN TWO DEPARTURE

(RTRRN2.LAS) 25JUN15

LAS VEGAS, NEVADA
NORTH LAS VEGAS (VGT)

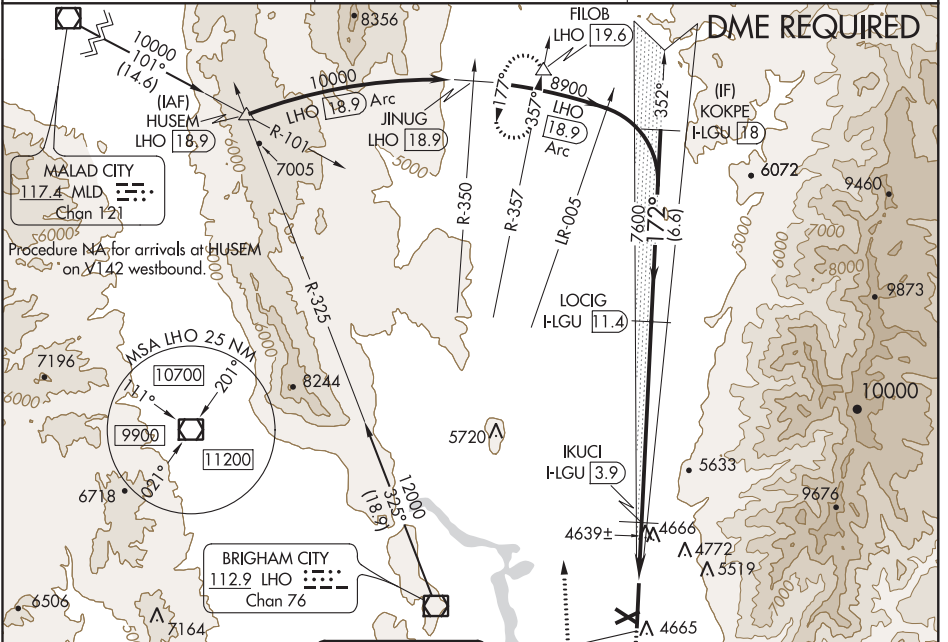
LOC/DME H:G.U	APP CRS	Rwy Idg	9010
109.15	172°	TDZE	4457
Chan 28 (Y)		Apt Elev	4457

ILS or LOC/DME RWY 17

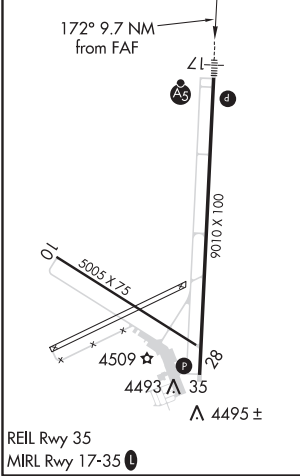
LOGAN-CACHE (L:G.U)

NA Night Landing: Rwy 10, 28 NA. -22°C/-8°F	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 FIOLOB INT/LHO 19.6 DME and hold, continue climb-in-hold to 12000.
---	--	-----------	---

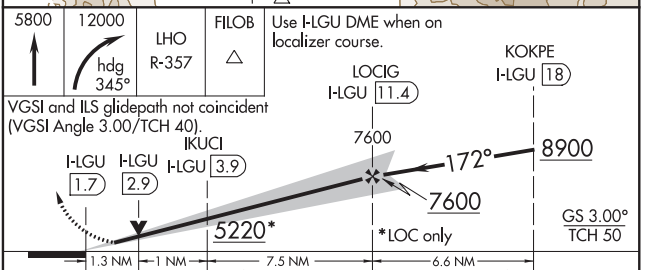
ASOS 135.275	CEDAR CITY RADIO 122.2	UNICOM 122.8 (CTAF)
------------------------	----------------------------------	-------------------------------



ELEV 4457	D	TDZE 4457
-----------	----------	-----------



LOCALIZER H:G.U Chan 28 (Y)	NIWTE 12000 3020 123.8	Use H:G.U DME when on localizer course. LOCIG H:G.U 11.4 KOKPE H:G.U 18
-----------------------------------	---------------------------------	---



CATEGORY	A	B	C	D
S-ILS 17	4669-1/2		212 (300-1/2)	
S-LOC 17	4900-1/2	443 (500-1/2)	4900-7/8	443 (500-7/8)
C CIRCLING	4900-1 443 (500-1)	4940-1 483 (500-1)	4940-1 1/2 483 (500-1 1/2)	5060-2 603 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

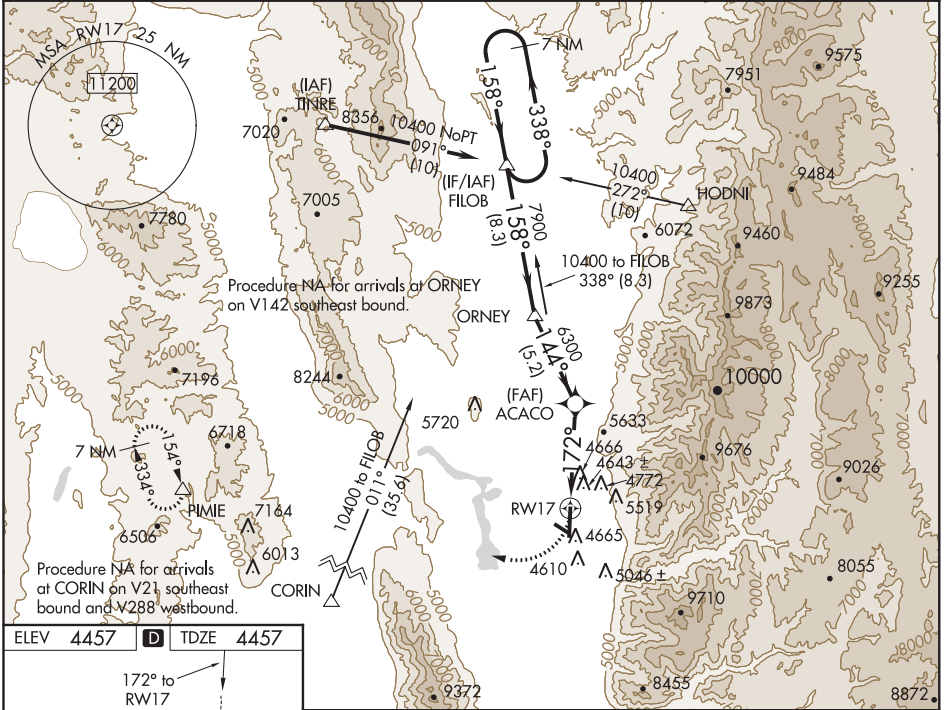
APP CRS	Rwy Idg	9010
172°	TDZE	4457
	Apt Elev	4457

RNAV (GPS) RWY 17

LOGAN-CACHE (L&U)

<p>▼ DME/DME RNP-0.3 NA. Circling NA east of Rwy 17-35.</p> <p>▲ Night Landing: Rwy 10-28 NA. Inop table does not apply to LNAV Cats C/D.</p> <p>❄ -22°C/-8°F</p> <p>* Missed approach requires minimum climb of 310 feet per NM to 7700.</p>	<p>MALSR</p> <p>MISSED APPROACH: Climbing right turn to 10000 direct PIMIE and hold, continue climb-in-hold to 10000.</p>
--	---

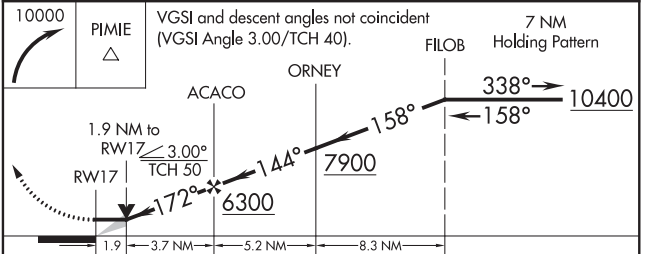
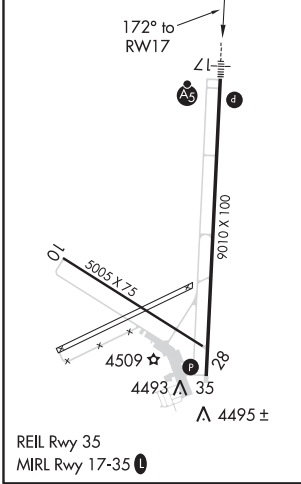
<p>ASOS</p> <p>135.275</p>	<p>CEDAR CITY RADIO</p> <p>122.2</p>	<p>UNICOM</p> <p>122.8 (CTAF)</p>
--	--	---



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV	4457	D	TDZE	4457
------	-------------	----------	------	-------------



CATEGORY	A	B	C	D
*LNAV MDA	5100-1/2	643 (700-1/2)	5100-1 3/8	643 (700-1 3/8)
LNAV MDA	5800-3/4 1343 (1400-3/4)	5800-1 1343 (1400-1)	5800-3 1343 (1400-3)	1343 (1400-3)
C CIRCLING	5800-1 1/4 1343 (1400-1 1/4)	5800-1 1/2 1343 (1400-1 1/2)	5800-3	1343 (1400-3)

WAAS CH 57900 W35A	APP CRS 352°	Rwy Idg TDZE 4457 Apt Elev 4457
--	------------------------	---

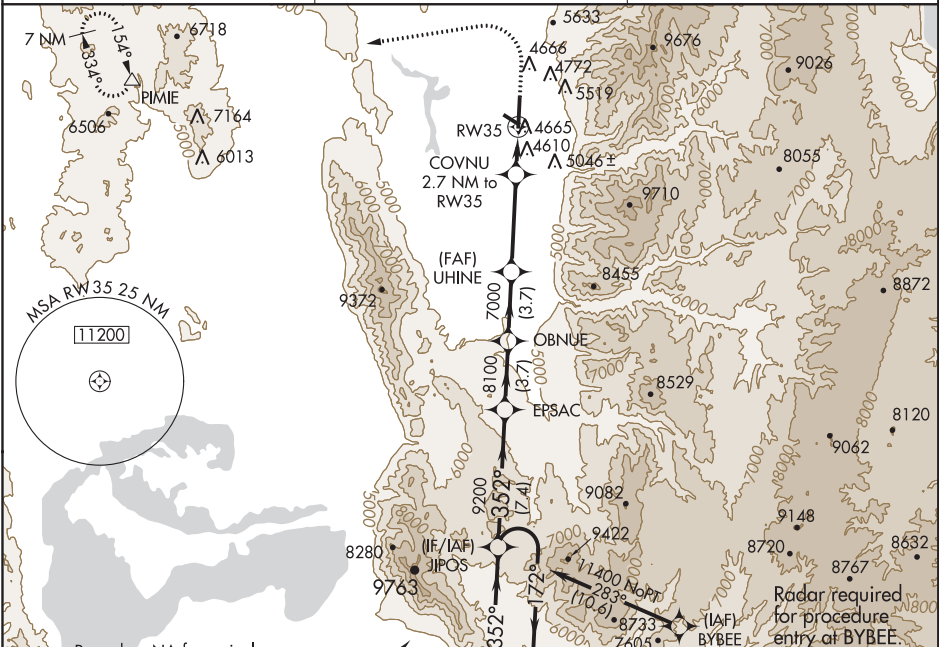
RNAV (GPS) RWY 35

LOGAN-CACHE (L.G.U)

⚠ DME/DME RNP-0.3 NA.
⚠ Circling NA east of Rwy 17-35.
⚠ -22°C/-8°F 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.

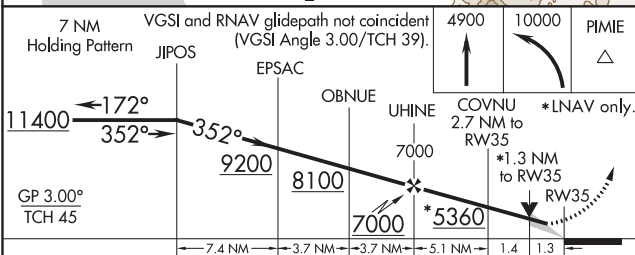
ASOS 135.275	CEDAR CITY RADIO 122.2	UNICOM 122.8 (CTAF)
------------------------	----------------------------------	-------------------------------



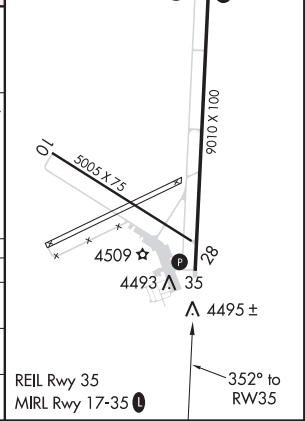
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

7 NM Holding Pattern	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 39).	4900	10000	PIMIE
GP 3.00° TCH 45				



ELEV 4457	TDZE 4457
-----------	-----------



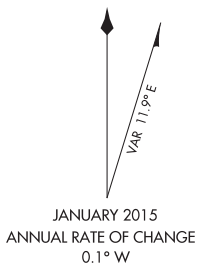
CATEGORY	A	B	C	D
LPV DA	4677-3/4 220 (300-3/4)			
LNAV MDA	4920-1	463 (500-1)	4920-1 3/8	463 (500-1 3/8)
C CIRCLING	4920-1 463 (500-1)	4940-1 483 (500-1)	4940-1 1/2 483 (500-1 1/2)	5060-2 603 (700-2)

AIRPORT DIAGRAM

LOGAN-CACHE (LGTU)
LOGAN, UTAH

AL-663 (FAA)

ASOS
135.275
CTAF/UNICOM
122.8



41°48'N

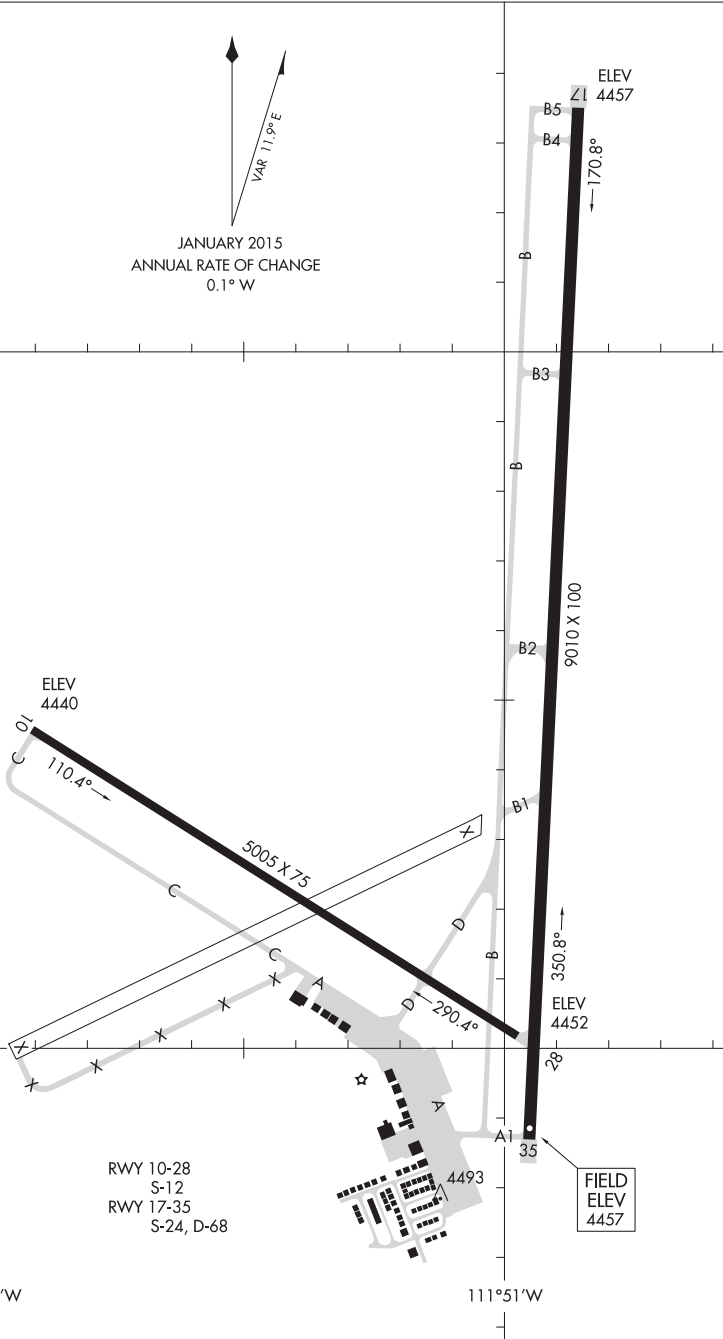
41°47'N

111°52'W

111°51'W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



RWY 10-28
S-12
RWY 17-35
S-24, D-68

AIRPORT DIAGRAM

LOGAN, UTAH
LOGAN-CACHE (LGTU)

CEDAR CITY RADIO
122.2
ASOS
135.275
UNICOM
122.8 (CTAF)

MALAD CITY
117.4 MLD
Chan 121

ORNEY
N41°58.70'
W111°53.44'

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.

BRIGHAM CITY
112.9 LHO
Chan 76
N41°47.57'-W112°00.59'
L-11, H-3

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

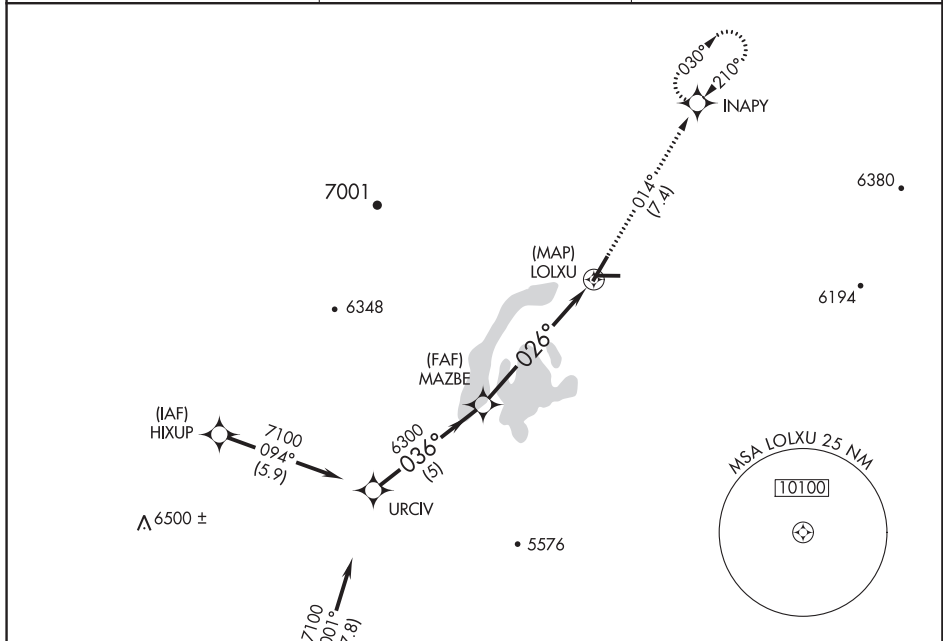
GPS RWY 2

DERBY FIELD (LOL)

APP CRS 026°	Rwy Idg 5529
	TDZE 3902
	Apt Elev 3904

<p>⚠ NA</p> <p>⚠ -24C/-11F</p>	<p>MISSED APPROACH: Climb to 8000 via 014° course to INAPY WP and hold.</p>
--------------------------------	---

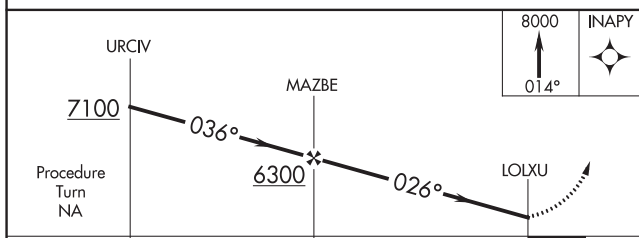
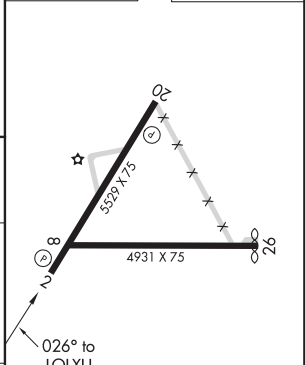
<p>ASOS 120.675</p>	<p>OAKLAND CENTER 128.8 285.5</p>	<p>UNICOM 122.8 (CTAF)</p>
--------------------------------	--	---------------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 3904	TDZE 3902
-----------	-----------



CATEGORY	A	B	C	D
S-1	4280-1 378 (400-1)			4280-1¼ 378 (400-1¼)
CIRCLING	4320-1 416 (500-1)	4360-1 456 (500-1)	4360-1½ 456 (500-1½)	4780-2¾ 876 (900-2¾)

REIL Rwy 2 and 20
MIRL Rwy 2-20

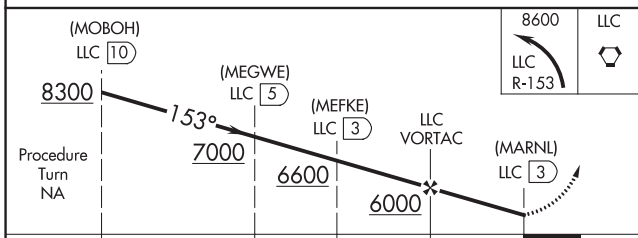
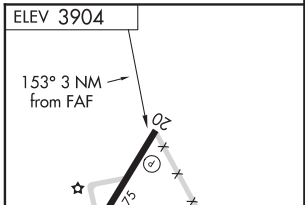
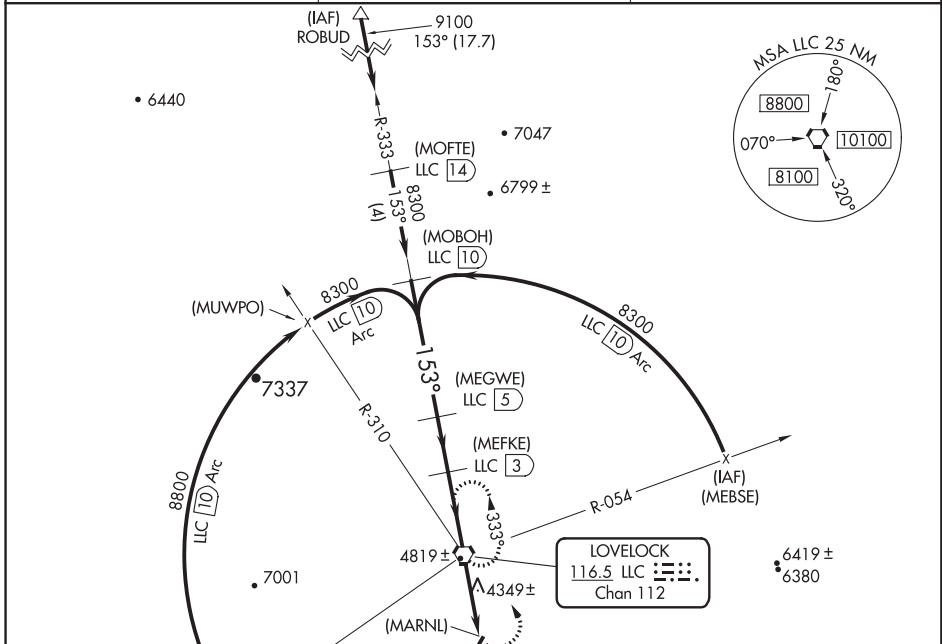
VORTAC LLC 116.5 Chan 112	APP CRS 153°	Rwy Idg TDZE Apt Elev 3904	N/A N/A
---	------------------------	--	--------------------------

VOR/DME or GPS-A

DERBY FIELD (L.O.L)

MISSED APPROACH: Climbing left turn to 8600 via R-153 to LLC VORTAC and hold, continue climb in hold to 8600.

ASOS 120.675	OAKLAND CENTER 128.8 285.5	UNICOM 122.8 (CTAF)
------------------------	--------------------------------------	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	4800-1¼	897 (900-1¼)	4800-2¾ 897 (900-2¾)	4800-3 897 (900-3)

ELEV 3904

153° 3 NM from FAF

5599 X 775

4931 X 775

REIL Rwys 2 and 20

MIRL Rwy 2-20

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

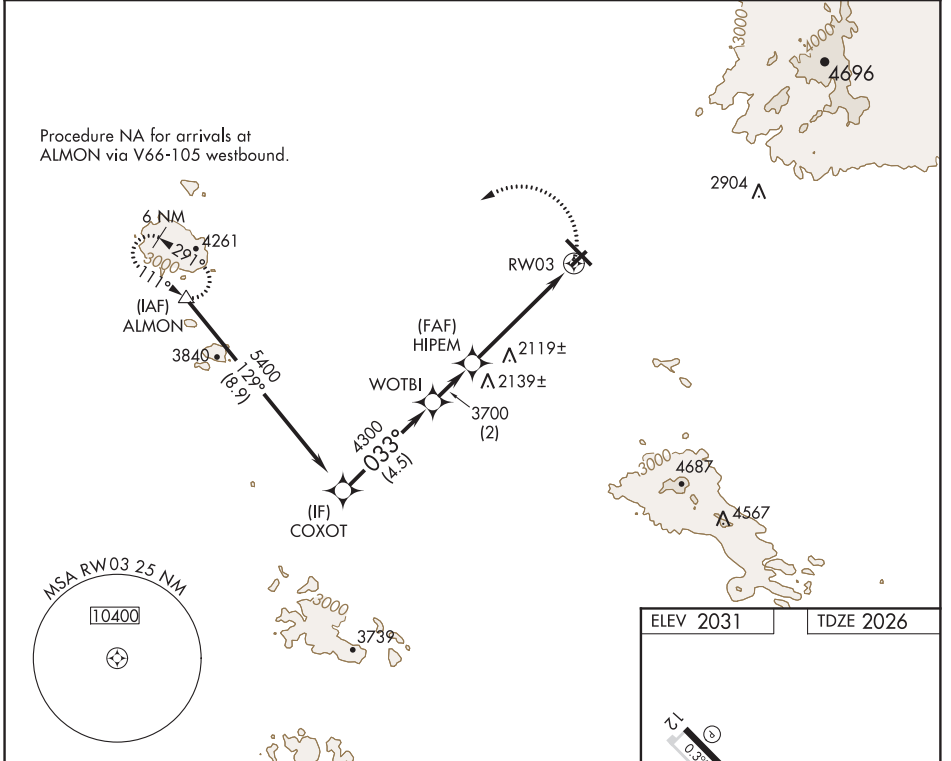
APP CRS	Rwy Idg	3398
033°	TDZE	2026
	Apt Elev	2031

RNAV (GPS) RWY 3

MARANA RGNL (AVQ)

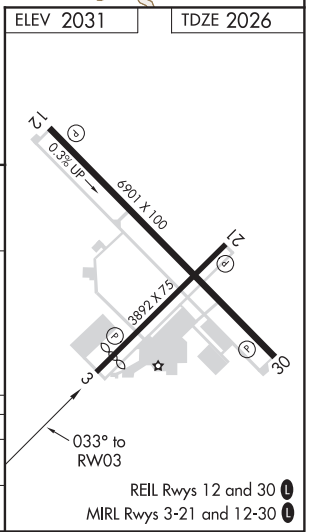
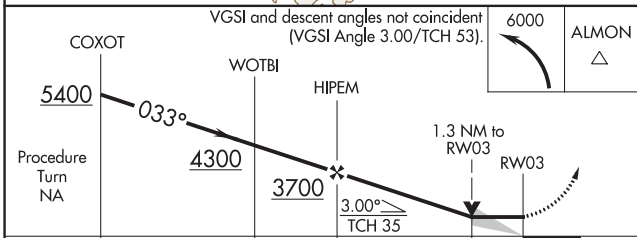
▽ If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
△NA MISSED APPROACH: Climbing left turn to 6000 direct ALMON and hold, continue climb-in-hold to 6000.
 DME/DME RNP-0.3 NA.
 VDP NA when using Ryan Field altimeter setting.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF) 0
--------------------------	--------------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
LNAV MDA	2480-1	454 (500-1)	2480-1½ 454 (500-1½)	NA
CIRCLING	2480-1 449 (500-1)	2500-1 469 (500-1)	2580-1½ 549 (600-1½)	NA

WAAS CH 58324 W12A	APP CRS 138°	Rwy Idg TDZE Apt Elev	6901 2022 2031
--	------------------------	-----------------------------	---

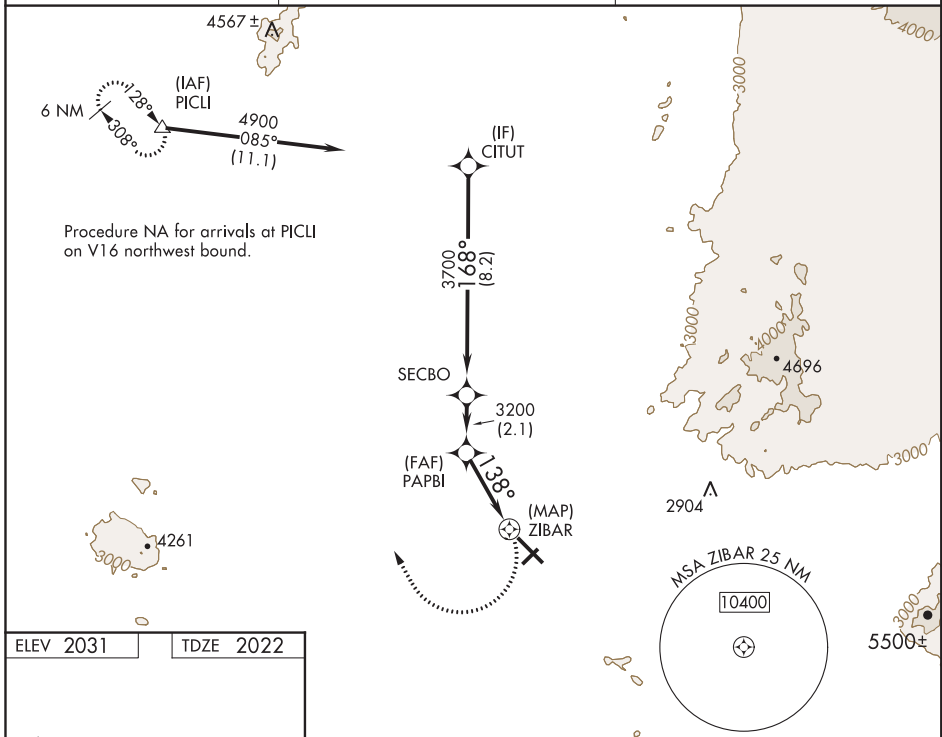
RNAV (GPS) RWY 12

MARANA RGNL (AVQ)

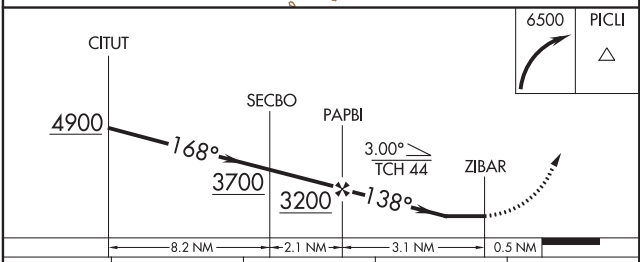
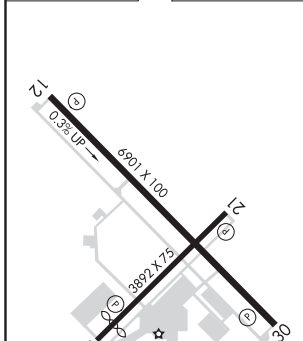
▽ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDA 100 feet, increase all Cat C visibility ¼ mile.

△NA MISSED APPROACH: Climbing right turn to 6500 direct PICLI and hold, continue climb-in-hold to 6500.

AWOS-3 118,375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
--------------------------	--------------------------------------	-------------------------------



ELEV 2031	TDZE 2022
-----------	-----------



CATEGORY	A	B	C	D
LP MDA	2420-1	398 (400-1)	2420-1 1/8 398 (400-1 1/8)	NA
LNAV MDA	2440-1	418 (500-1)	2440-1 1/4 418 (500-1 1/4)	NA
CIRCLING	2440-1 409 (500-1)	2500-1 469 (500-1)	2580-1 1/2 549 (600-1 1/2)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 56325 W21A	APP CRS 199°	Rwy Idg TDZE Apt Elev	3892 2026 2031
--	------------------------	-----------------------------	---

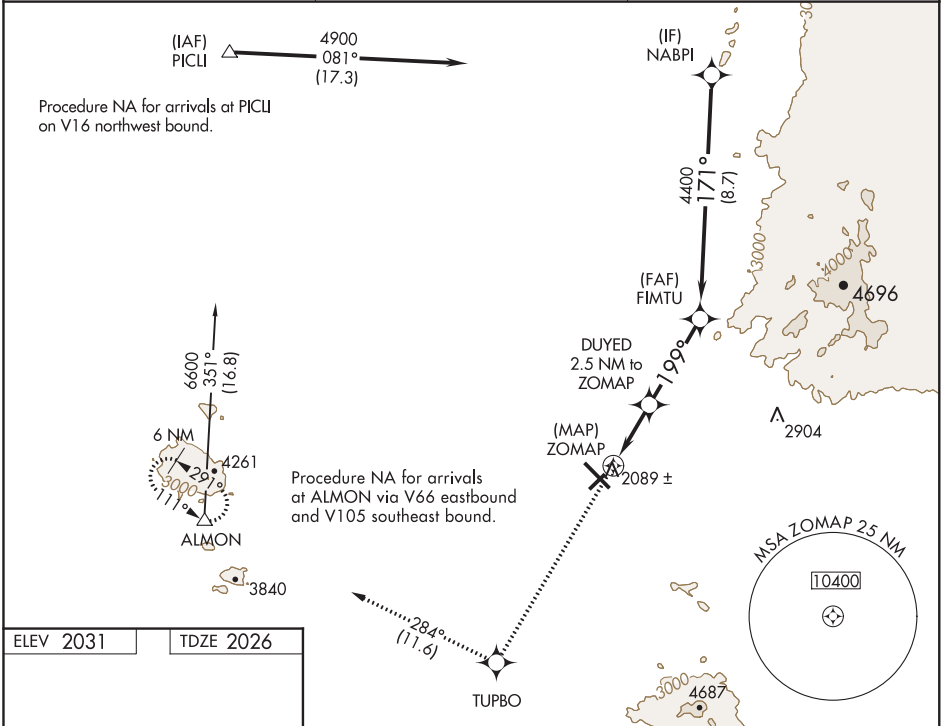
RNAV (GPS) RWY 21

MARANA RGNL (AVQ)

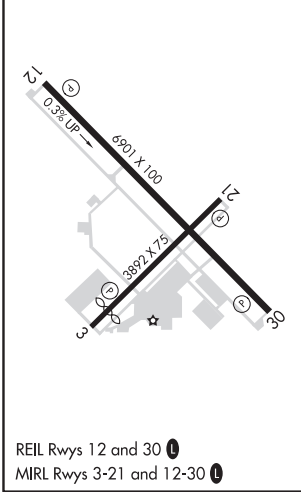
NA DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.
NA When local altimeter setting not received, use Ryan Field altimeter setting and increase all MDA 100 feet, increase LP Cat C visibility to 1½ mile, increase LNAV and Circling Cat C visibility to 2 miles.

MISSED APPROACH: Climb to 6700 direct TUPBO and on track 284° to ALMON and hold, continue climb-in-hold 6700.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF)
--------------------------	--------------------------------------	-------------------------------



ELEV 2031	TDZE 2026
-----------	-----------



6700	TUPBO	tr 284°	ALMON	VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 40).
				NABPI
			FIMTU	
			DUYED 2.5 NM to ZOMAP	
			ZOMAP	
			3120	
			4400	
			199°	
			171°	
			4900	
			0.5	
			2.5 NM	
			3.6 NM	
			8.7 NM	
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
CIRCLING	2640-1	609 (700-1)	2640-1¾ 609 (700-1¾)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	N/A
282°	TDZE	N/A
	Apt Elev	2031

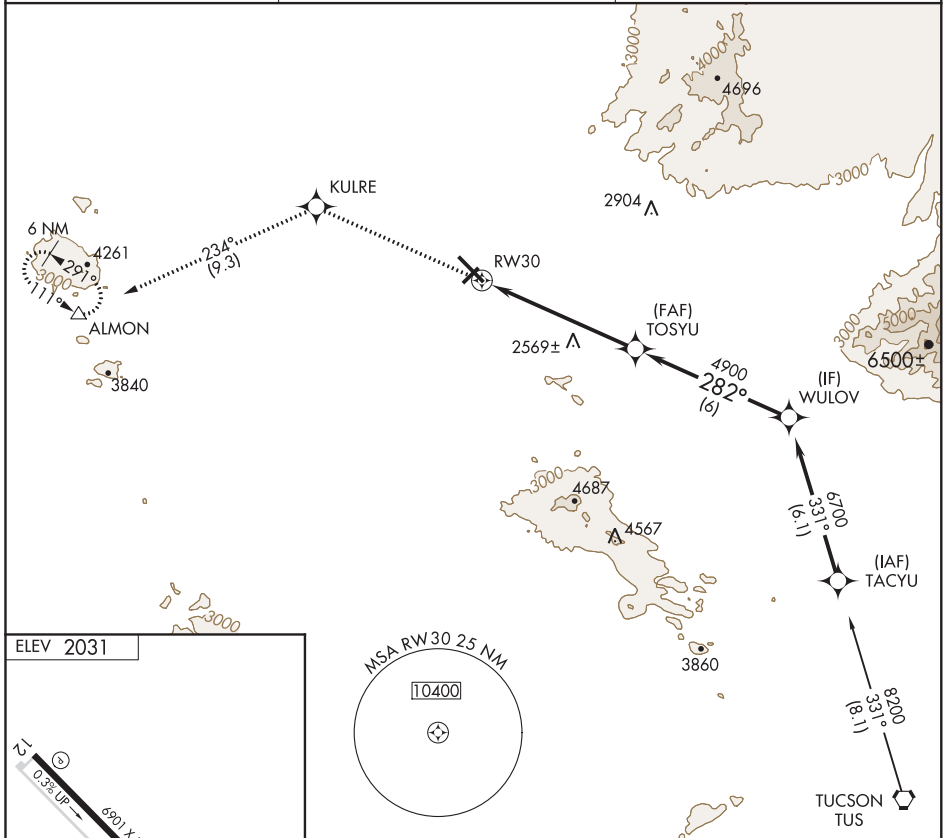
RNAV (GPS)-E

MARANA RGNL (AVQ)

▲ If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.
▲NA DME/DME RNP-0.3 NA.

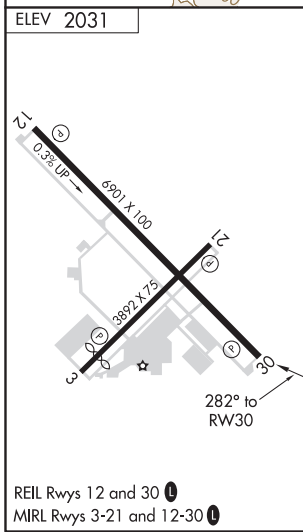
MISSED APPROACH: Climb to 6000 direct KULRE and 234° track to ALMON and hold, continue climb-in-hold to 6000.

AWOS-3 118.375	TUCSON APP CON 119.4 318.1	UNICOM 123.0 (CTAF) 0
--------------------------	--------------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



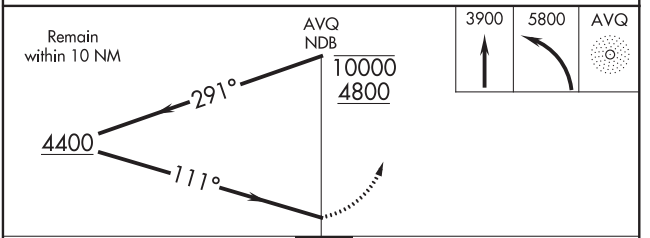
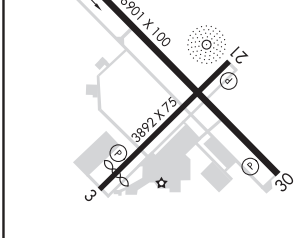
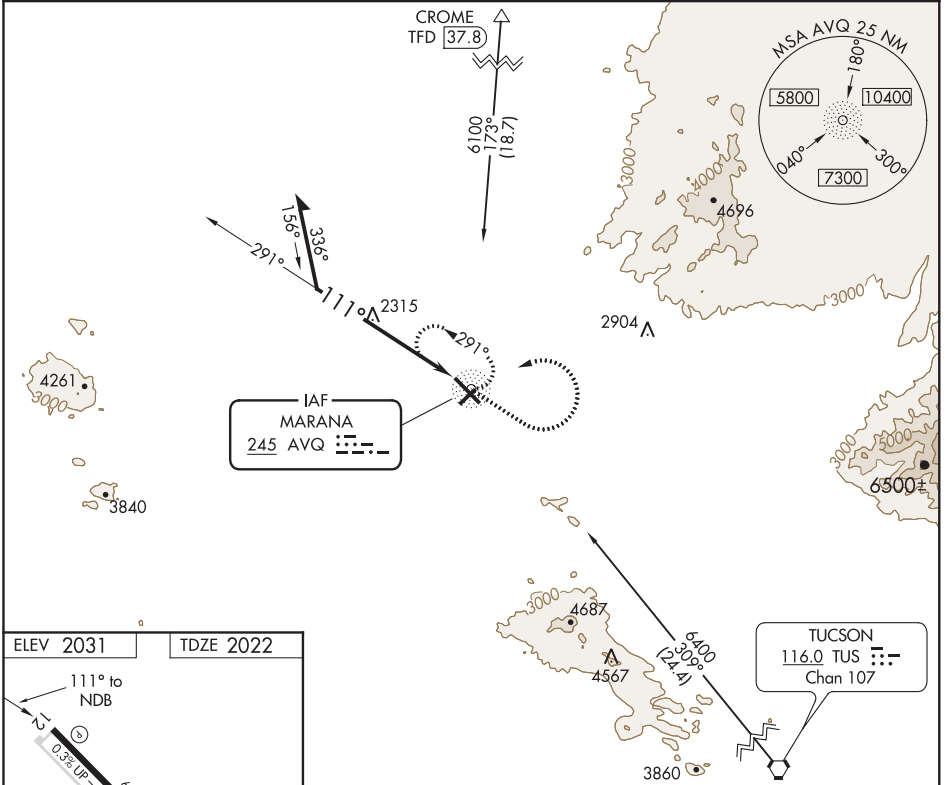
6000	KULRE	234° tr	ALMON	TOSYU	WULOV
				4900	6700
				6 NM	6 NM
CATEGORY	A	B	C	D	
CIRCLING	2820-1 789 (800-1)	2820-1¼ 789 (800-1¼)	2820-2¼ 789 (800-2¼)	NA	

NDB AVQ 245	APP CRS 111°	Rwy Idg TDZE Apt Elev 6901 2022 2031
-----------------------	------------------------	--

NDB RWY 12

MARANA RGNL (AVQ)

<p>▽ ▲ NA</p> <p>If local altimeter setting not received, use Ryan Field altimeter setting and increase all MDAs 100 feet.</p>	<p>MISSED APPROACH: Climb to 3900 then climbing left turn to 5800 direct AVQ NDB and hold, continue climb-in-hold to 5800.</p>	
<p>AWOS-3 118.375</p>	<p>TUCSON APP CON 119.4 318.1</p>	<p>UNICOM 123.0 (CTAF) 0</p>



CATEGORY	A	B	C	D
S-12	3480-1¼ 1458 (1500-1¼)	3480-1½ 1458 (1500-1½)	3480-3 1458 (1500-3)	NA
CIRCLING	3480-1¼ 1449 (1500-1¼)	3480-1½ 1449 (1500-1½)	3480-3 1449 (1500-3)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 56625 W04A	APP CRS 039°	Rwy Idg TDZE Apt Elev	3799 1383 1394
--	------------------------	-----------------------------	---

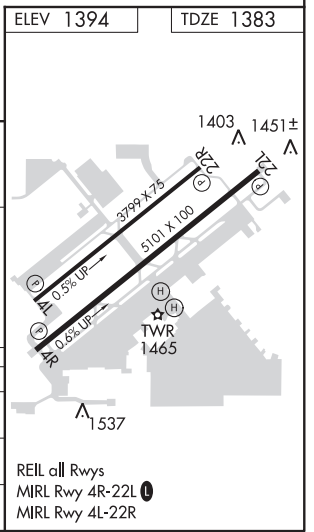
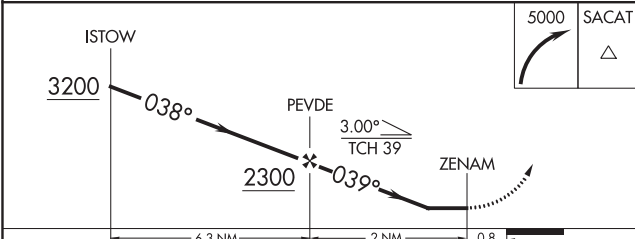
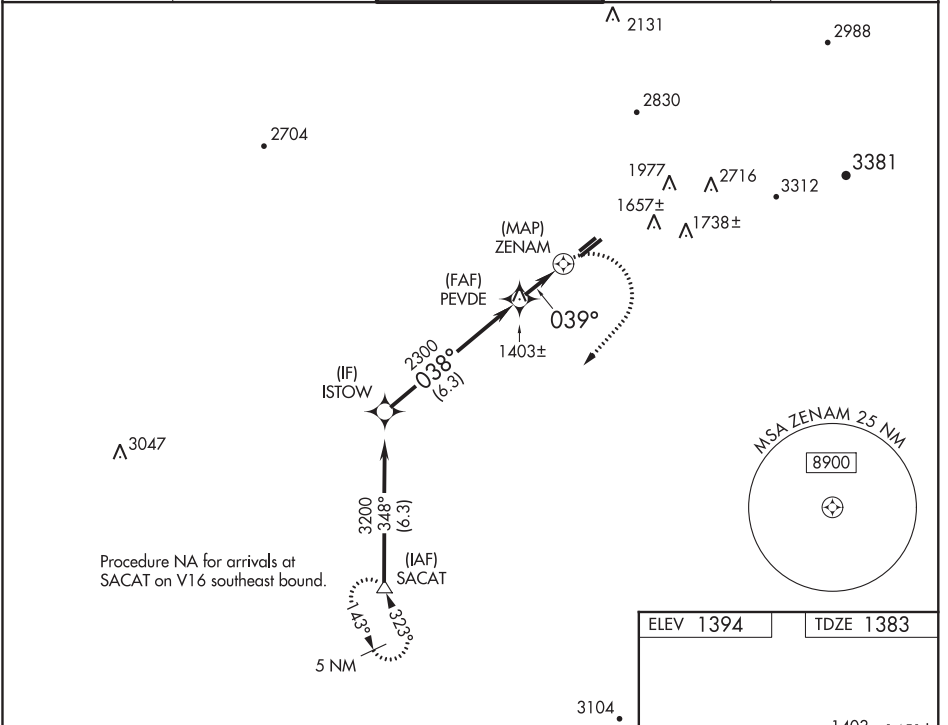
RNAV (GPS) RWY 4L

FALCON FIELD (F'F'Z)

⚠ Circling to Rwy 22R NA at night. When VGSI inoperative, Straight-in/Circling Rwy 4L procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. 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 mile and LNAV Cat C visibility ⅓ mile.

⚠ MISSED APPROACH: Climbing right turn to 5000 direct SACAT and hold, continue climb-in-hold to 5000.

ATIS 118,25	PHOENIX APP CON 120.7 239.0	FALCON TOWER ★ 124.6 (CTAF) 0	GND CON 121.3	UNICOM 122.95
-----------------------	---------------------------------------	--	-------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MESA, ARIZONA

AL-6647 (FAA)

16203

WAAS CH 90525 W04B	APP CRS 039°	Rwy Idg TDZE Apt Elev	5101 1383 1394
--	------------------------	-----------------------------	---

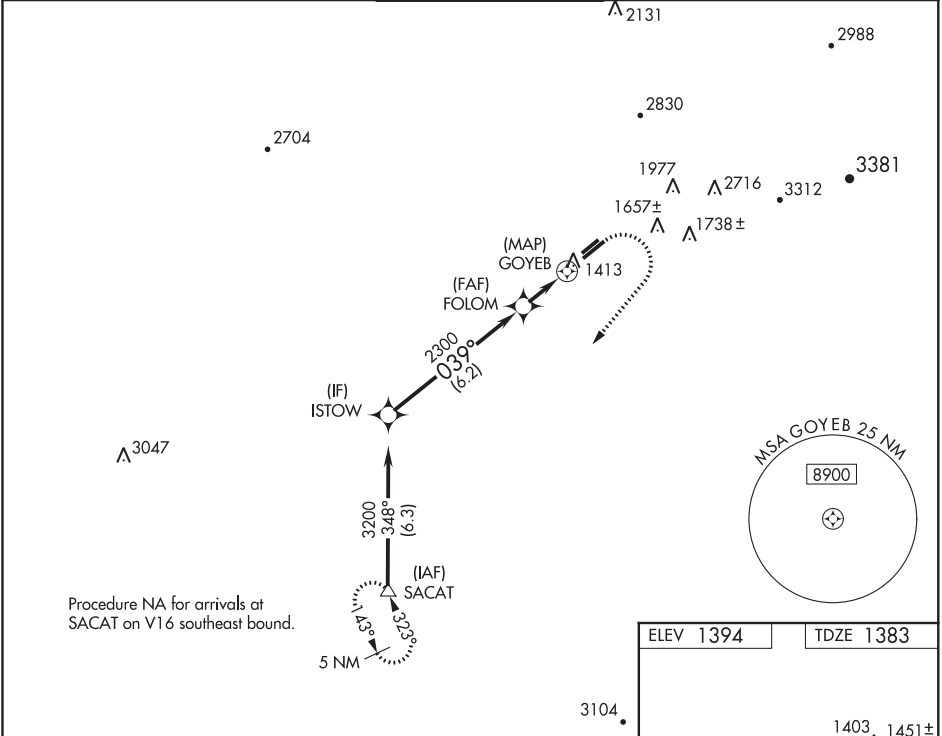
RNAV (GPS) RWY 4R

FALCON FIELD (F'F'Z)

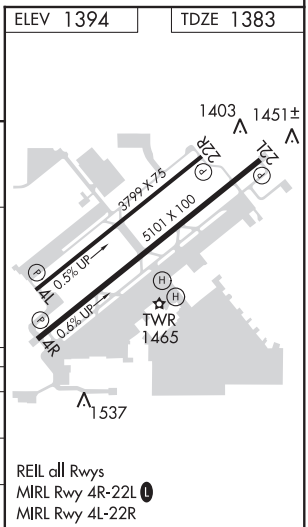
⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet and increase LNAV Cat C visibility 1/8 mile. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1900 then climbing right turn to 5000 direct SACAT and hold, continue climb-in-hold to 5000.

ATIS 118.25	PHOENIX APP CON 120.7 239.0	FALCON TOWER * 124.6 (CTAF) 0	GND CON 121.3	UNICOM 122.95
-----------------------	---------------------------------------	--	-------------------------	-------------------------



ISTOW		VGSI and descent angles not coincident (VGSI Angle 4.00/TCH 42).		1900	5000	SACAT
3200	039°	FOLOM	2300	3.00°	TCH 41	GOYEB
6.2 NM		2 NM		0.8		
CATEGORY	A	B	C	D		
LP MDA	1680-1 297 (300-1)			NA		
LNAV MDA	1800-1 417 (500-1)		1800-1 1/4 417 (500-1 1/4)		NA	
CIRCLING	1900-1 506 (600-1)		1900-1 1/2 506 (600-1 1/2)		NA	



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MESA, ARIZONA
Amdt 1E 07JAN16

33°28'N-111°44'W

RNAV (GPS) RWY 4R

APP CRS	Rwy Idg	N/A
122°	TDZE	N/A
	Apt Elev	1394

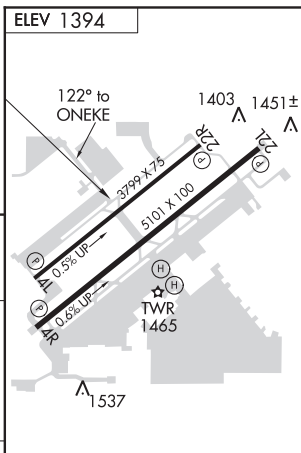
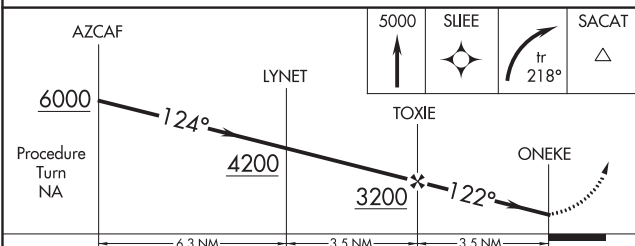
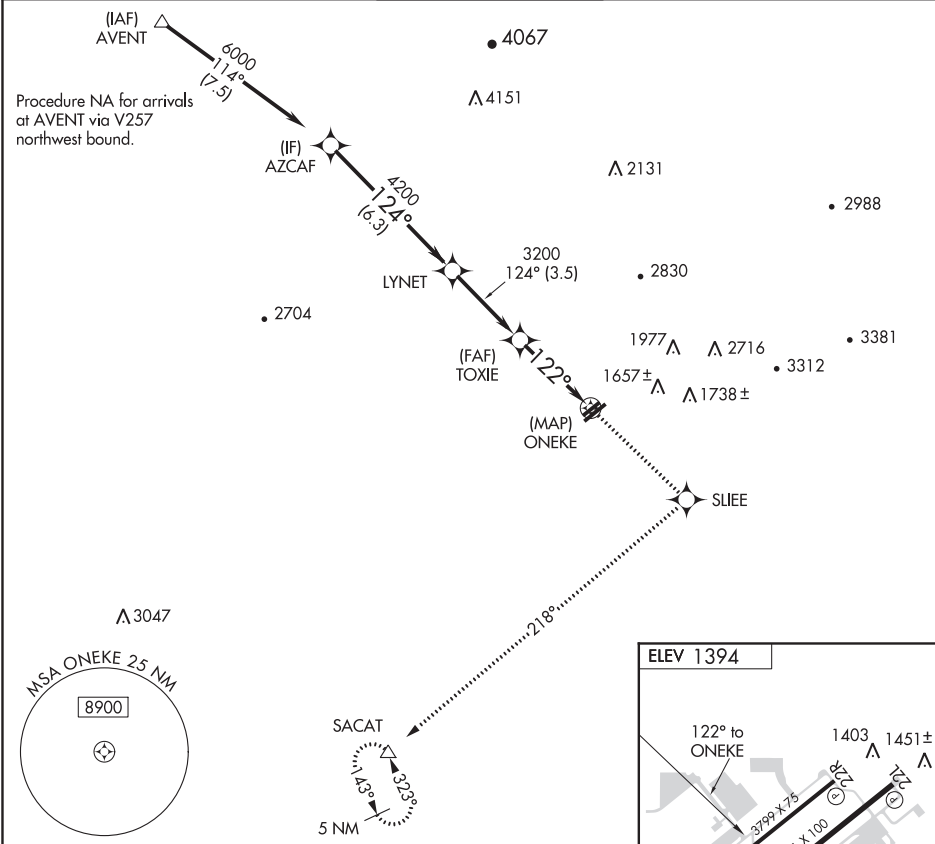
RNAV (GPS)-B

FALCON FIELD (F'F'Z)

▽ 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 118.25	PHOENIX APP CON 120.7 239.0	FALCON TOWER * 124.6 (CTAF) 0	GND CON 121.3	UNICOM 122.95
-----------------------	---------------------------------------	--	-------------------------	-------------------------



CATEGORY	A	B	C	D
CIRCLING	1900-1	506 (600-1)	1900-1½ 506 (600-1½)	NA

REIL all Rwy's
 MIRL Rwy 4R-22L **0**
 MIRL Rwy 4L-22R

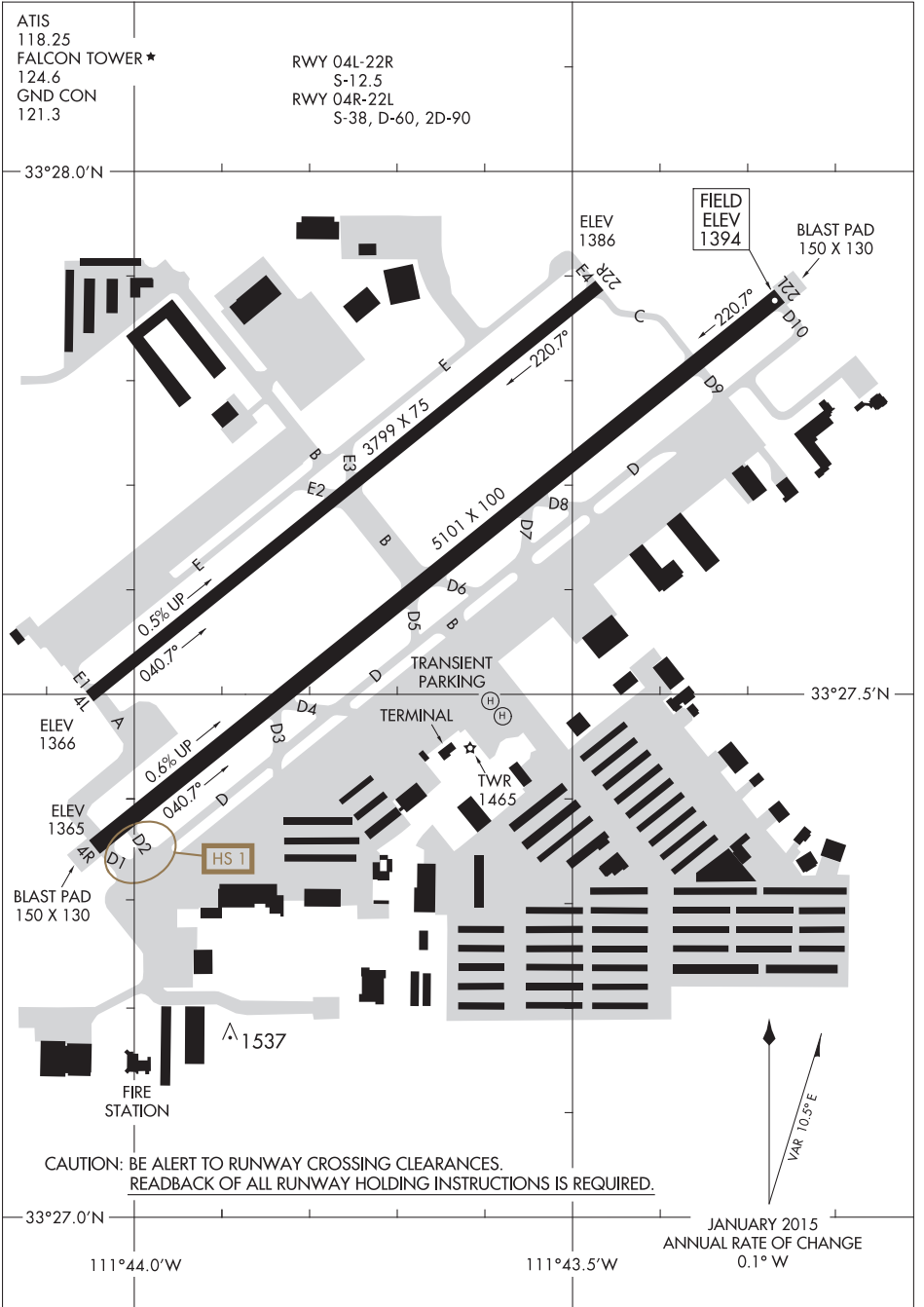
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-6647 (FAA)

FALCON FIELD (F'F'Z)
MESA, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

16259

MESA, ARIZONA
FALCON FIELD (F'F'Z)

FALCON TOWER *
124.6 (CTAF)
PHOENIX DEP CON
120.7 239.0

PHOENIX
115.6 PXR
Chan 103

IFNUR
N33°09.56'
W111°49.30'
L-5

STANFIELD
114.8 TFD
Chan 95

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.

NOTE: Chart not to scale.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(SACAT3.SACAT) 16315

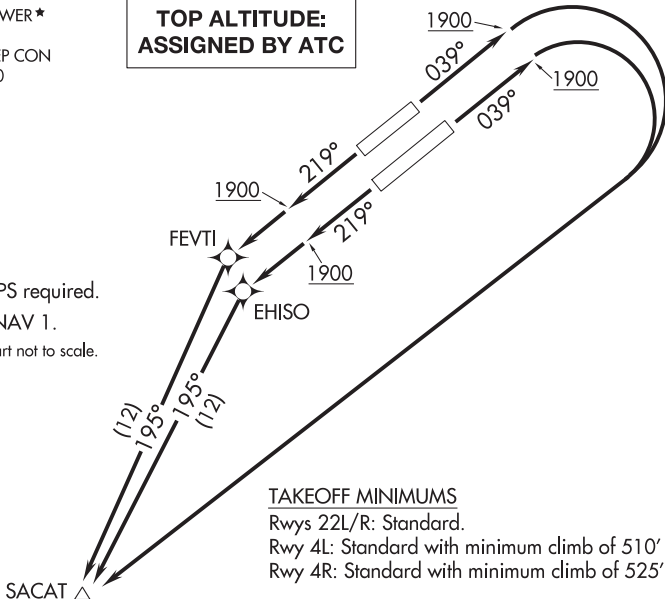
SACAT THREE DEPARTURE (RNAV)

SL-6647 (FAA)

FALCON FIELD (F'F'Z)
MESA, ARIZONA

FALCON TOWER *
124.6
PHOENIX DEP CON
120.7 239.0

**TOP ALTITUDE:
ASSIGNED BY ATC**



NOTE: GPS required.
NOTE: RNAV 1.
NOTE: Chart not to scale.

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.

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.



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.

SACAT THREE DEPARTURE (RNAV)

(SACAT3.SACAT) 10NOV16

MESA, ARIZONA
FALCON FIELD (F'F'Z)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

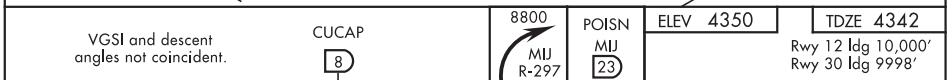
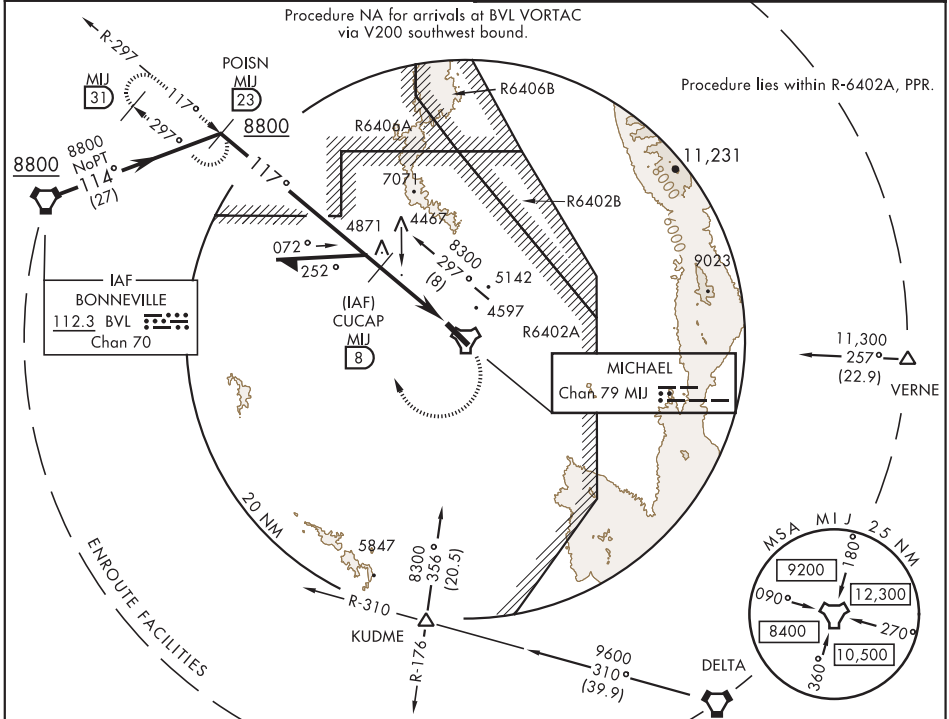
TACAN Chan 79	MIJ 79	APCH CRS 117°	Rwy ldg 10,000' TDZE 4342 Arprt Elev 4350
-------------------------	------------------	-------------------------	--

AL-5071 [USA]

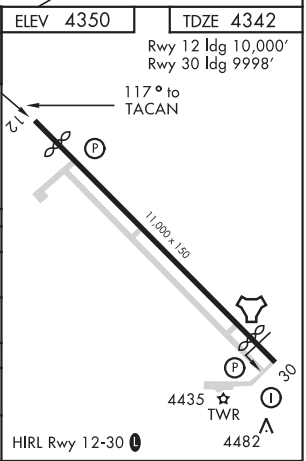
MICHAEL AAF (KDPG)

▼ * Obtain local altimeter setting on CTAF; when not received, use Wendover altimeter setting.
 ▲ NA MISSED APPROACH: Climbing right turn to 8800 via MIJ TACAN R-297 to POISN/23 DME and hold.

CLOVER CON 134.1 363.5	CTAF 0 126.2 270.3
----------------------------------	------------------------------



CATEGORY	A	B	C	D	E
S-12	4800-1 458 (500-1)		4800-1¼ 458 (500-1¼)	4800-1½ 458 (500-1½)	5220-3 878 (900-3)
CIRCLING	4800-1 449 (500-1)	4820-1 469 (500-1)	4820-1½ 469 (500-1½)	4920-2 569 (600-2)	5900-3 1549 (1600-3)
* WENDOVER ALTIMETER SETTING MINIMUMS					
S-12	4960-1 618 (700-1)		4960-1¼ 618 (700-1¼)	4960-2 618 (700-2)	5360-3 1018 (1100-3)
CIRCLING	4960-1 609 (700-1)		4960-1¼ 609 (700-1¼)	5060-2¼ 709 (800-2¼)	6060-3 1709 (1800-3)



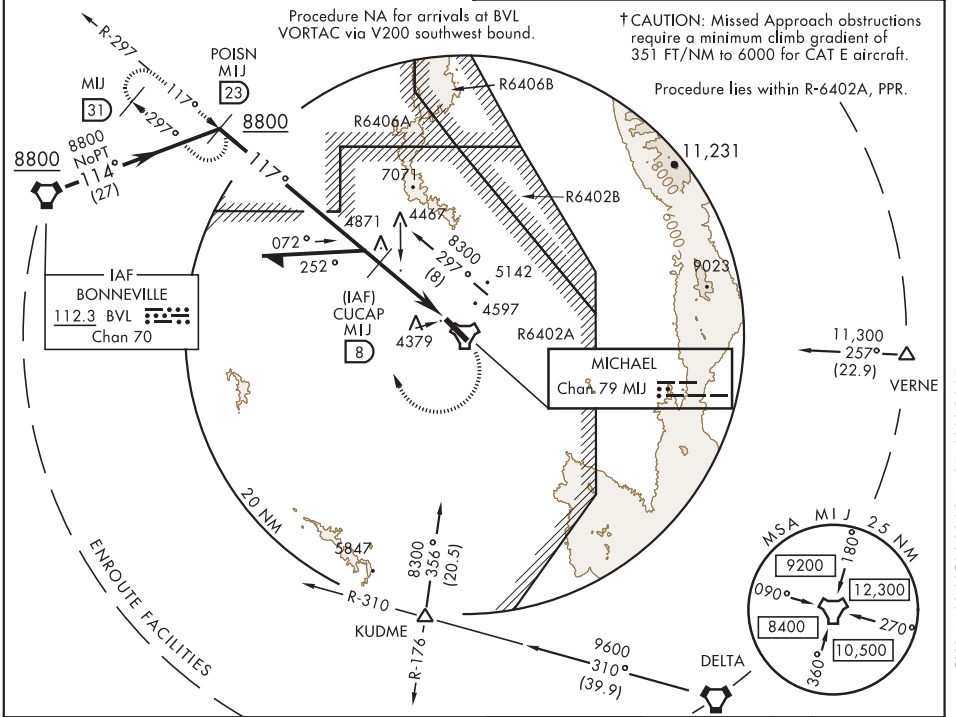
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

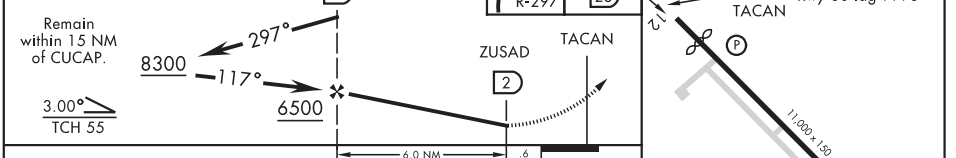
TACAN Chan 79	MIJ 117°	APCH CRS 117°	Rwy ldg TDZE 4342 Arprt Elev 4350	AL-5071 [USA]	MICHAEL AAF (KDPG)
-------------------------	--------------------	-------------------------	---	---------------	--------------------

▼ * 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/23 DME and hold.

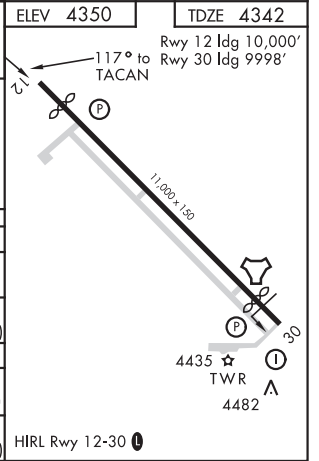
CLOVER CON 134.1 363.5	CTAF 126.2 270.3
----------------------------------	----------------------------



VGSI and descent angles not coincident.
 Remain within 15 NM of CUCAP.
 3.00° TCH 55



CATEGORY	A	B	C	D	E
S-12	4800-1	458 (500-1)	4800-1¼ 458 (500-1¼)	4800-1½	458 (500-1½)
CIRCLING	4800-1 449 (500-1)	4820-1 469 (500-1)	4820-1½ 469 (500-1½)	4920-2 569 (600-2)	5900-3 1549 (1600-3)
* WENDOVER ALTIMETER SETTING MINIMUMS					
S-12	4960-1	618 (700-1)	4960-1¾ 618 (700-1¾)	4960-2 618 (700-2)	4960-2¼ 618 (700-2¼)
CIRCLING	4960-1	609 (700-1)	4960-1¾ 609 (700-1¾)	5060-2¼ 709 (800-2¼)	6060-3 1709 (1800-3)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-5071 [USA]

MICHAEL AAF (KDPG)

DUGWAY PROVING GROUND, UTAH

CLOVER CONTROL SOUTH
134.1 363.5
CTAF
126.2  270.3

40°13'N

40°12'N

40°11'N

112°57'W

112°56'W

112°55'W

DECONTAMINATION PAD
450 x 250

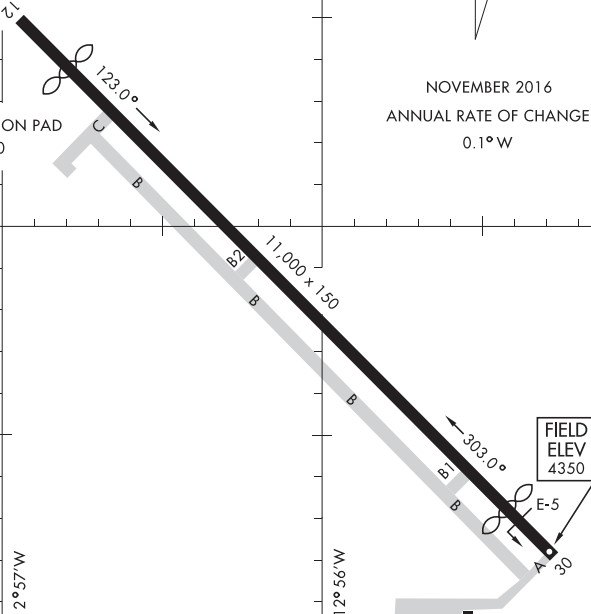
NOVEMBER 2016
ANNUAL RATE OF CHANGE
0.1°W

FIELD
ELEV
4350

CONTROL
TOWER
4435

Rwy 12 Idg 10,000'
Rwy 30 Idg 9998'

RWY 12-30
PCN 73 R/B/W/T



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

DUGWAY PROVING GROUND, UTAH

MICHAEL AAF (KDPG)

MILFORD, UTAH

AL-260 (FAA)

15008

APP CRS	Rwy Idg	5004
165°	TDZE	5033
	Apt Elev	5039

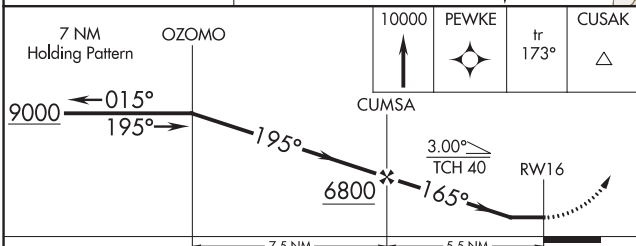
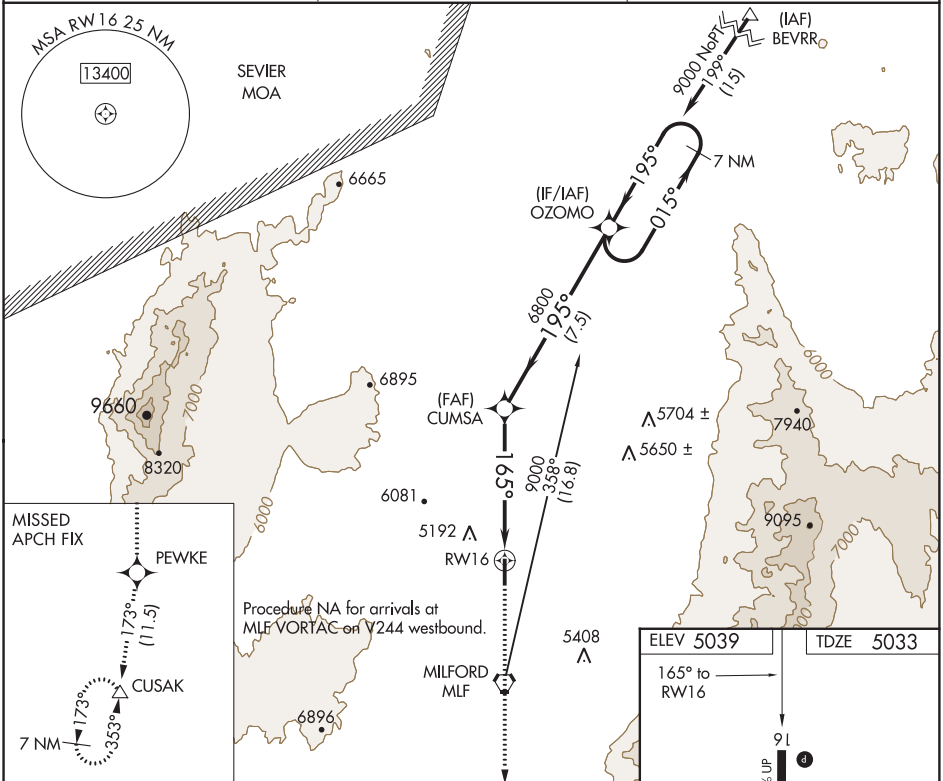
RNAV (GPS) RWY 16

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

⚠ 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 and Circling Cat C/D visibility ¾ mile. When VGSJ inop, procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 direct PEWKE and on track 173° to CUSAK and hold.

ASOS 135.025	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) Ⓛ
-------------------------------	--	---



ELEV 5039	TDZE 5033
165° to RW16	
9000	
0.3% UP	
5004 X 75	
34	

MIRL Rwy 16-34 **Ⓛ**
REIL Rwy 16-34 **Ⓛ**

CATEGORY	A	B	C	D
LNAV MDA	5480-1	447 (500-1)	5480-1 3/8	447 (500-1 3/8)
CIRCLING	5560-1 521 (600-1)	5580-1 541 (600-1)	5600-1 1/2 561 (600-1 1/2)	5680-2 641 (700-2)

MILFORD, UTAH
Orig-B 21AUG14

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)
38°26'N-113°01'W
RNAV (GPS) RWY 16

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	5004
345°	TDZE	5039
	Apt Elev	5039

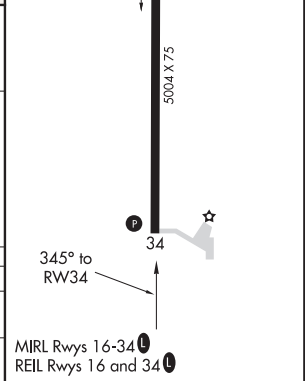
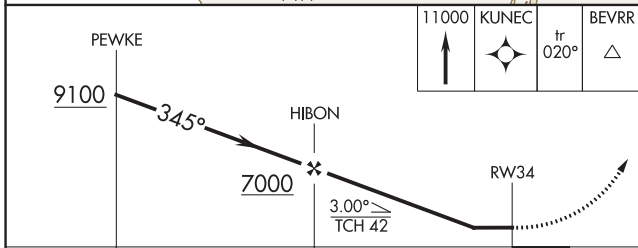
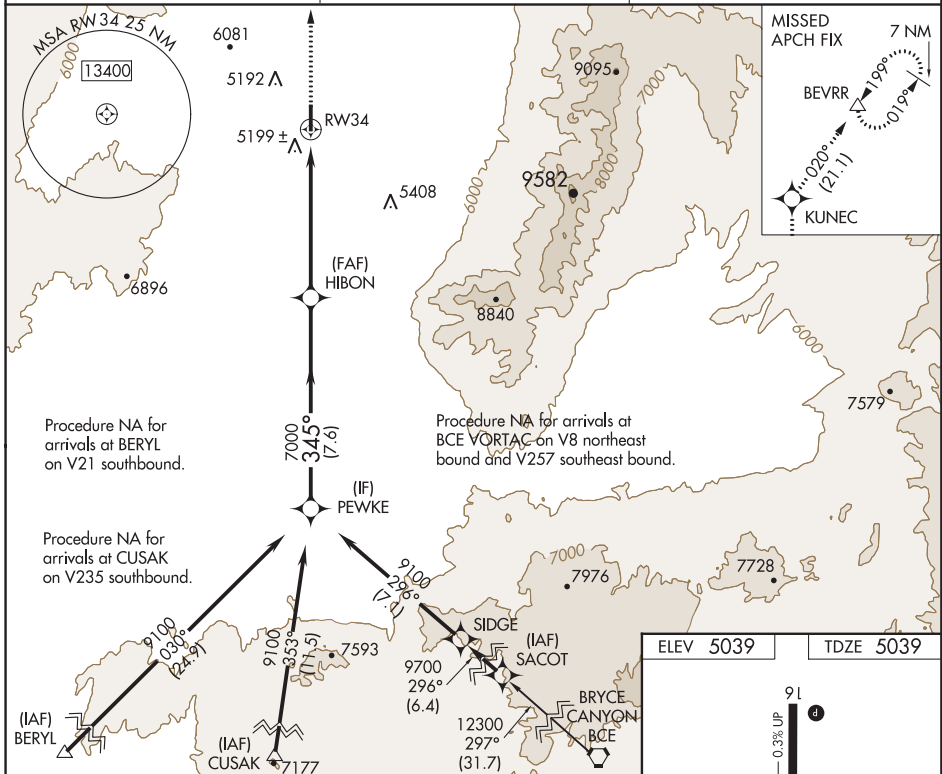
RNAV (GPS) RWY 34

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)

⚠ 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 and Circling visibility Cat C/D ¾ mile. When VGSI inop, procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

⚠ MISSED APPROACH: Climb to 11000 direct KUNEC and on track 020° to BEVRR and hold, continue Climb-in-hold to 11000.

ASOS 135.025	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 📻
------------------------	-----------------------------------	--



CATEGORY	A	B	C	D
LNAV MDA	5460-1	421 (500-1)	5460-1 ¼	421 (500-1 ¼)
CIRCLING	5560-1 521 (600-1)	5580-1 541 (600-1)	5600-1 ½ 561 (600-1 ½)	5680-2 641 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

MILFORD, UTAH

AL-260 (FAA)

15008

VORTAC MLF 112.1 Chan 58	APP CRS 344°	Rwy Idg TDZE Apt Elev 5039	N/A N/A
--	------------------------	--	------------

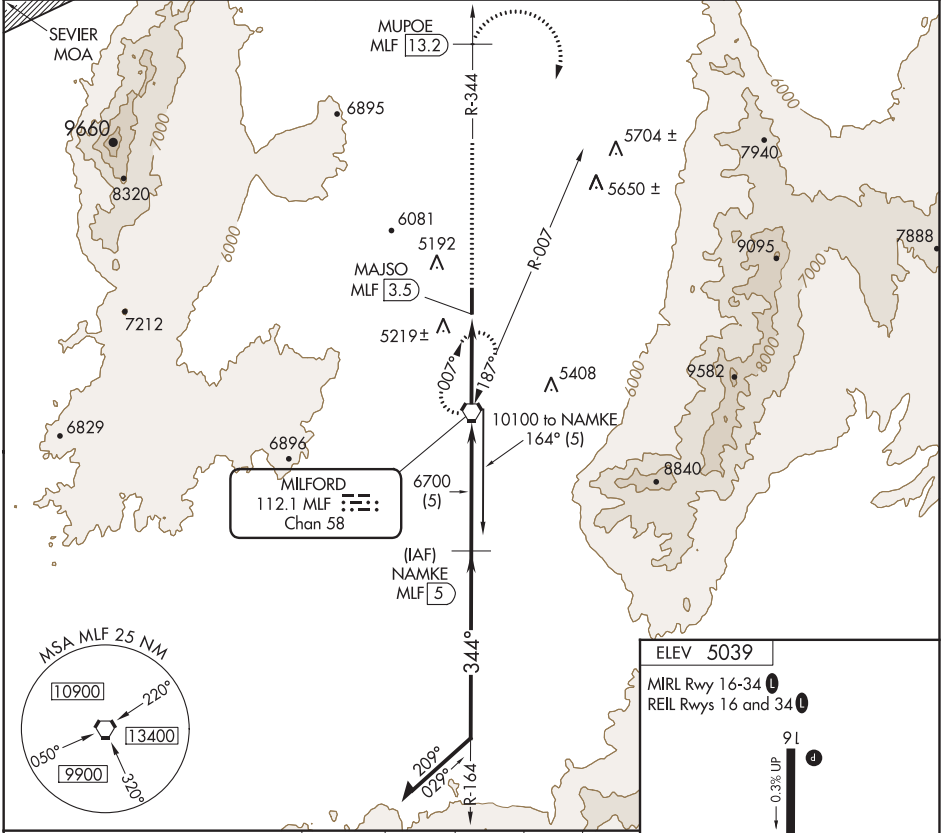
VOR/DME-A

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.

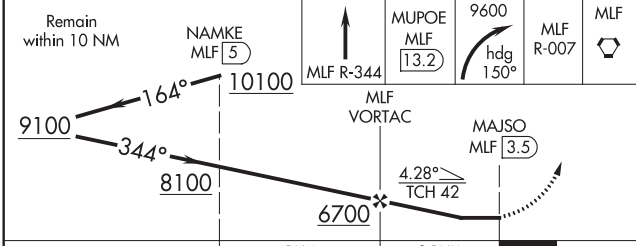
⚠ MISSED APPROACH: Climb on MLF VORTAC R-344 to MUPOE/MLF 13.2 DME then climbing right turn to 9600 on heading 150° and MLF VORTAC R-007 to MILFORD VORTAC and hold.

ASOS 135.025	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF)
------------------------	-----------------------------------	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 5039

MRL Rwy 16-34

REIL Rwys 16 and 34

344° 3.5 NM from FAF

CATEGORY	A	B	C	D
CIRCLING	5660-1	621 (700-1)	5660-1¾ 621 (700-1¾)	5680-2 641 (700-2)

MILFORD, UTAH
Amdt 4 05APR12

MILFORD MUNI/BEN AND JUDY BRISCOE FIELD (MLF)
38°26'N-113°01'W
VOR/DME-A

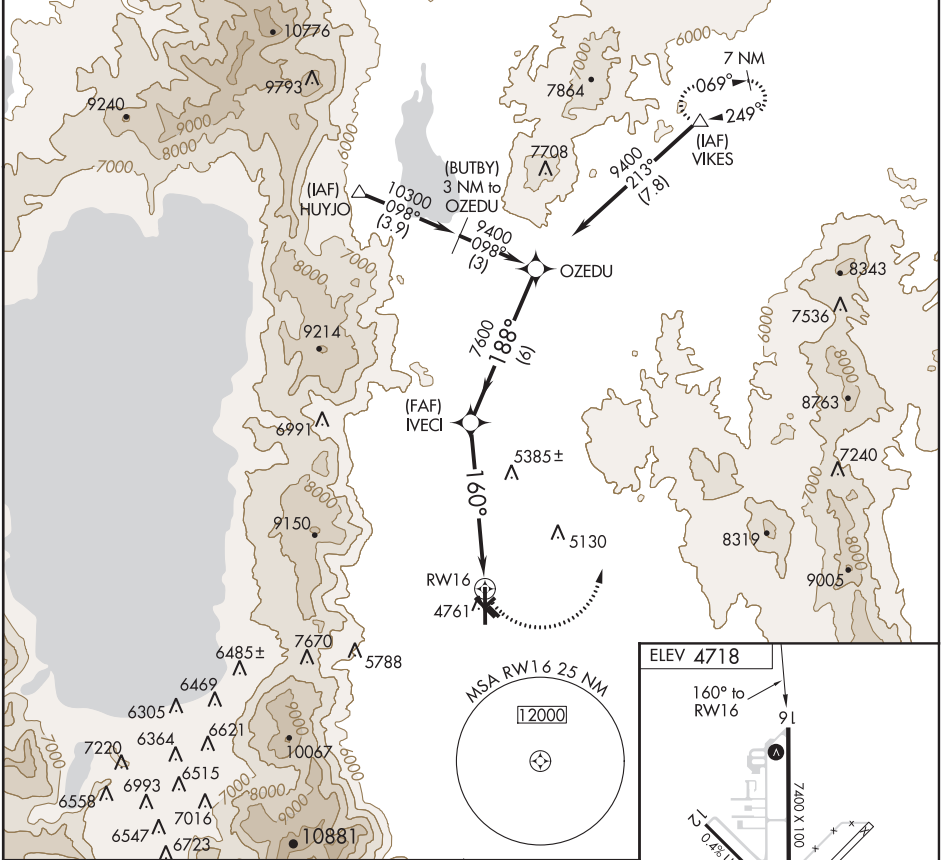
APP CRS 160°	Rwy Idg TDZE Apt Elev	N/A N/A 4718
------------------------	-----------------------------	---

GPS-A

MINDEN-TAHOE (MEV)

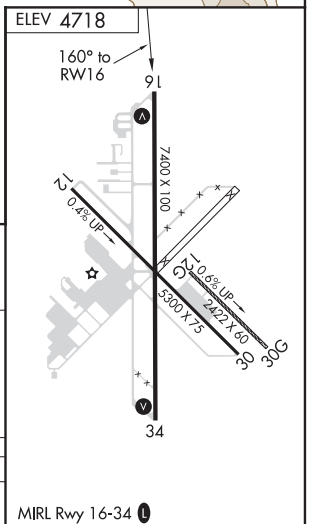
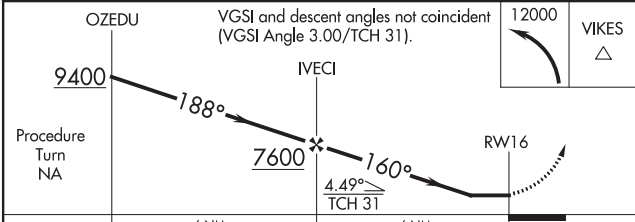
NA -19°C/-2°F		MISSED APPROACH: Climbing left turn to 12000 direct VIKES WP and hold.	
------------------	--	--	--

AWOS-3PT 119.325	NORCAL APP CON 119.2 279.55	NORCAL CLNC DEL 133.25	UNICOM 123.05 (CTAF)
----------------------------	---------------------------------------	----------------------------------	--------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



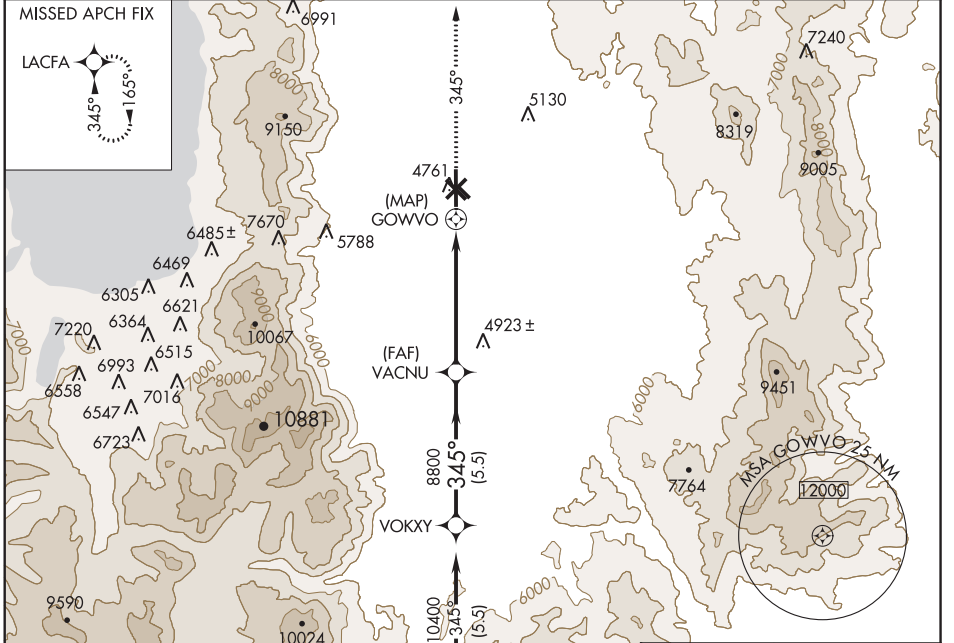
CATEGORY	A	B	C	D
CIRCLING	6220-1¼ 1502 (1600-1¼)	6220-1½ 1502 (1600-1½)	6220-3	1502 (1600-3)

GPS-B
MINDEN-TAHOE (MEV)

APP CRS 345°	Rwy Idg TDZE Apt Elev N/A N/A 4718
------------------------	--

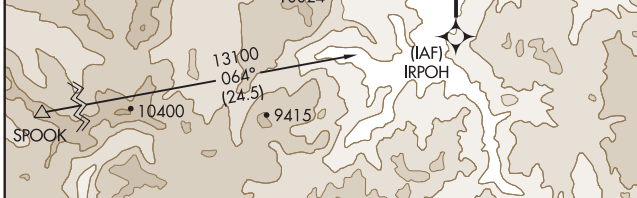
MISSED APPROACH: Climb to 12000 via 345° course to LACFA WP and hold.

AWOS-3PT 119.325	NORCAL APP CON 119.2 279.55	NORCAL CLNC DEL 133.25	UNICOM 123.05 (CTAF)
----------------------------	---------------------------------------	----------------------------------	--------------------------------

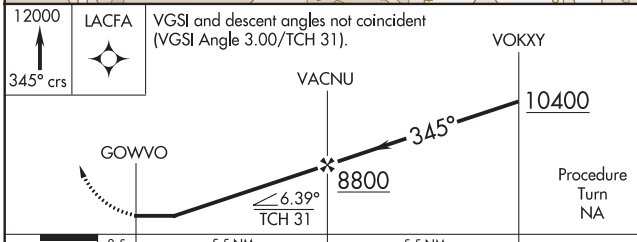
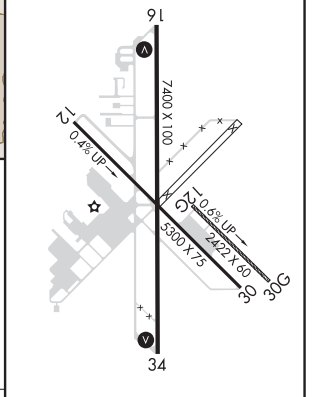


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 4718



CATEGORY	A	B	C	D
CIRCLING	6600-1¼ 1882 (1900-1¼)	6600-1½ 1882 (1900-1½)	6600-3	1882 (1900-3)

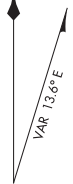
MIRL Rwy 16-34

AIRPORT DIAGRAM

AL-9430 (FAA)

MINDEN-TAHOE (MEV)
MINDEN, NEVADA

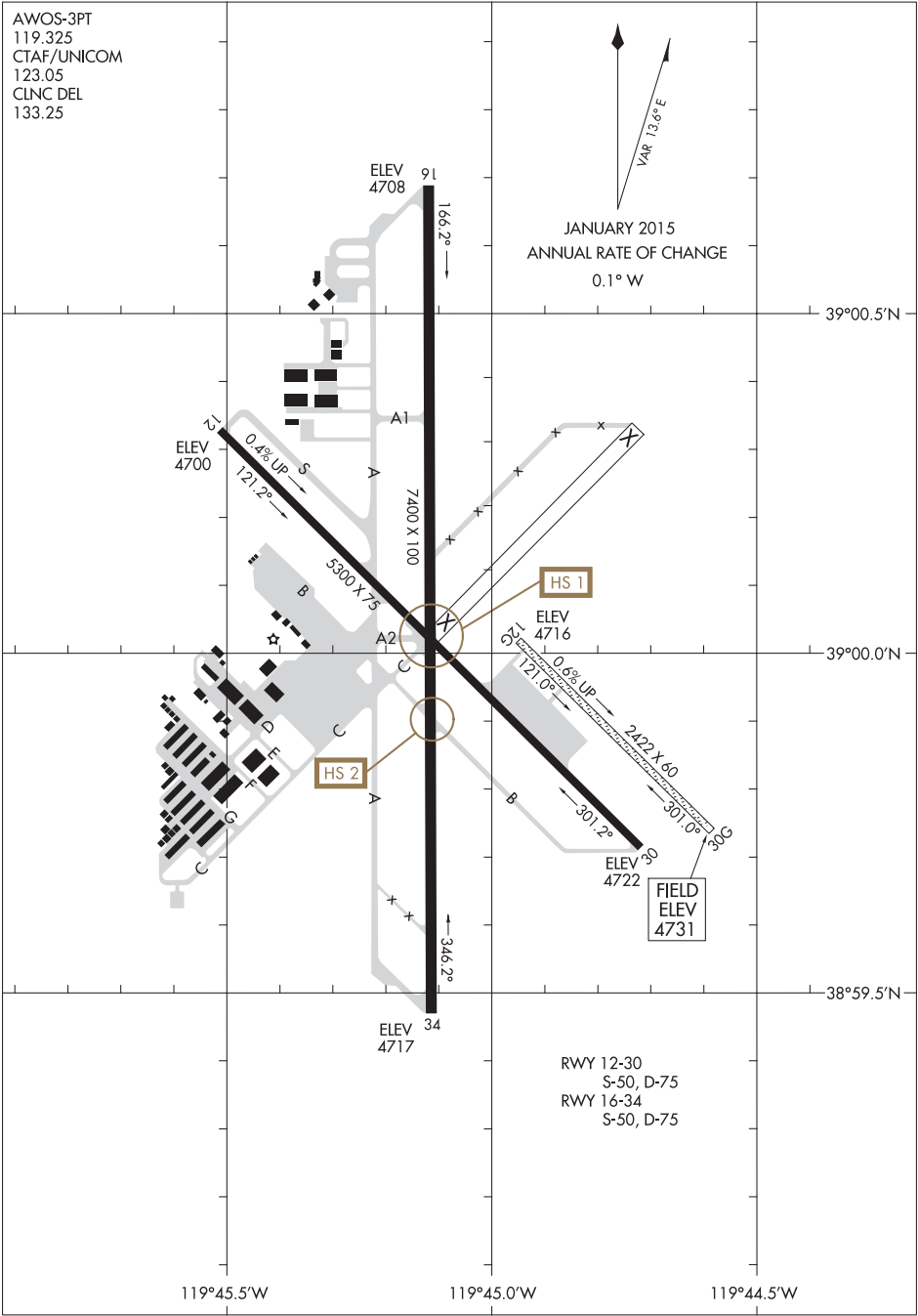
AWOS-3PT
119.325
CTAF/UNICOM
123.05
CLNC DEL
133.25



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



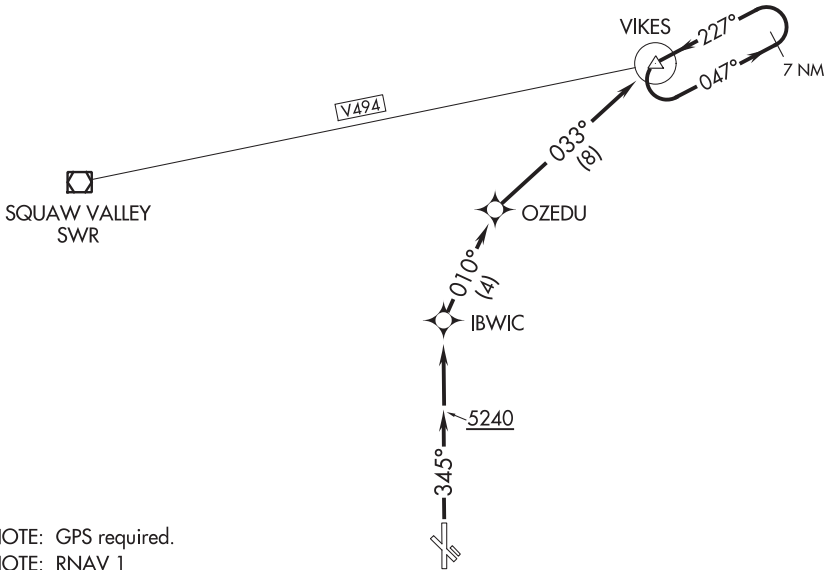
RWY 12-30
S-50, D-75
RWY 16-34
S-50, D-75

AIRPORT DIAGRAM

MINDEN, NEVADA
MINDEN-TAHOE (MEV)

(MINDN2.VIKES) 16315

MINDEN TWO DEPARTURE (OBSTACLE) (RNAV)

MINDEN-TAHOE (MEV)
SL-9430 (FAA) MINDEN, NEVADARENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55NOTE: GPS required.
NOTE: RNAV 1TAKEOFF 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.

MINDEN TWO DEPARTURE (OBSTACLE) (RNAV)
(MINDN2.VIKES) 15DEC11MINDEN, NEVADA
MINDEN-TAHOE (MEV)

RNAV (GPS) RWY 3

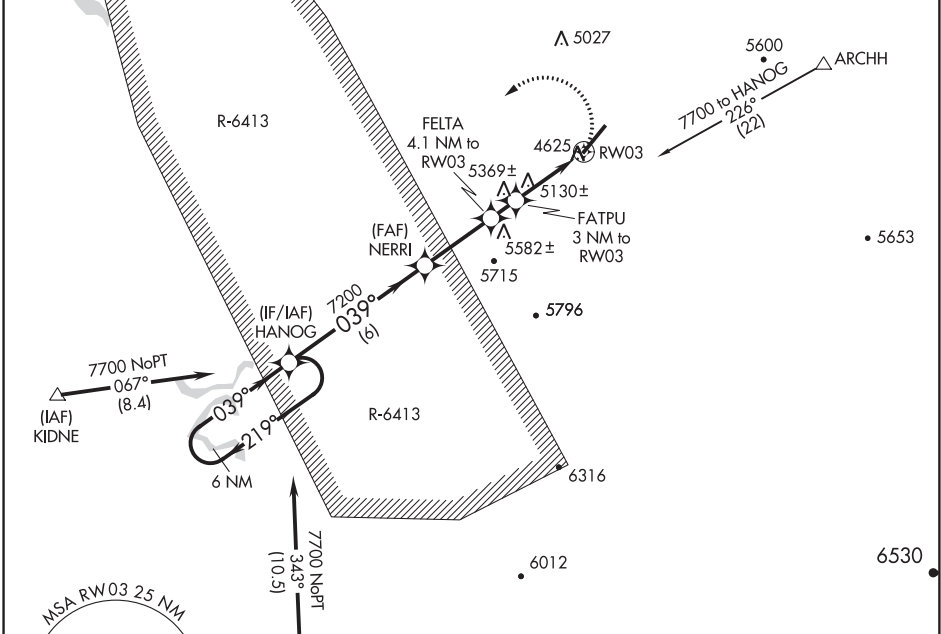
CANYONLANDS FIELD (CNY)

APP CRS	Rwy Idg	7100
039°	TDZE	4557
	Apt Elev	4557

NA DME/DME RNP-0.3 NA. Procedure NA when R-6413 in operation. Helicopter visibility reduction below 3/4 SM NA.

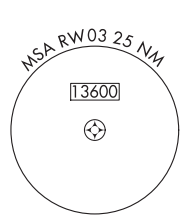
MISSED APPROACH: Climbing left turn to 7700 direct HANOG WP and hold.

ASOS 118.525	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF)
------------------------	-------------------------------------	-------------------------------

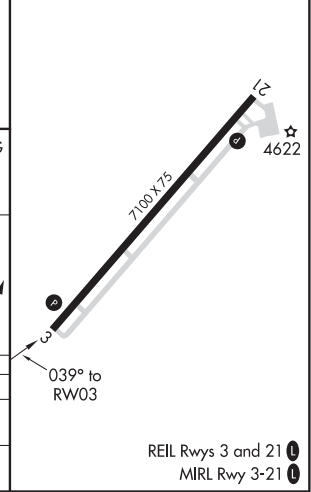
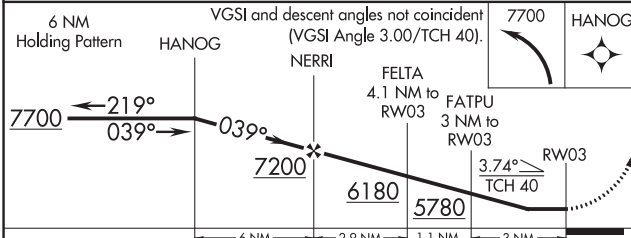


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 4557	D TDZE 4557
-----------	--------------------



CATEGORY	A	B	C	D
LNVA MDA	5380-1 823 (900-1)	5380-1¼ 823 (900-1¼)	5380-2½ 823 (900-2½)	823 (900-2½)
CIRCLING	5380-1¼ 823 (900-1¼)		5380-2½ 823 (900-2½)	5440-3 883 (900-3)

REIL Rwy 3 and 21 **D**
MIRL Rwy 3-21 **D**

MOAB, UTAH

AL-5585 (FAA)

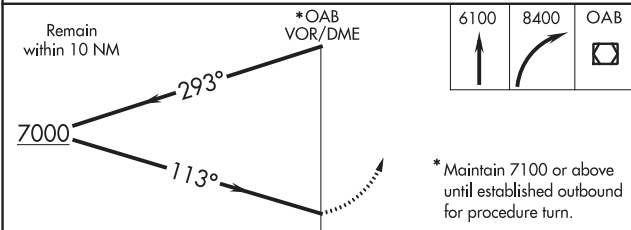
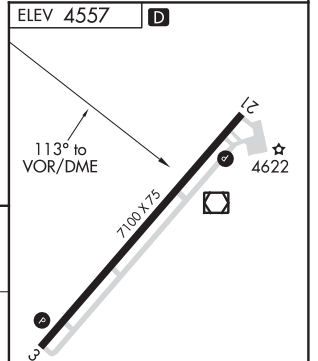
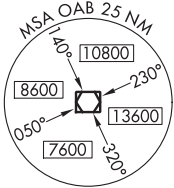
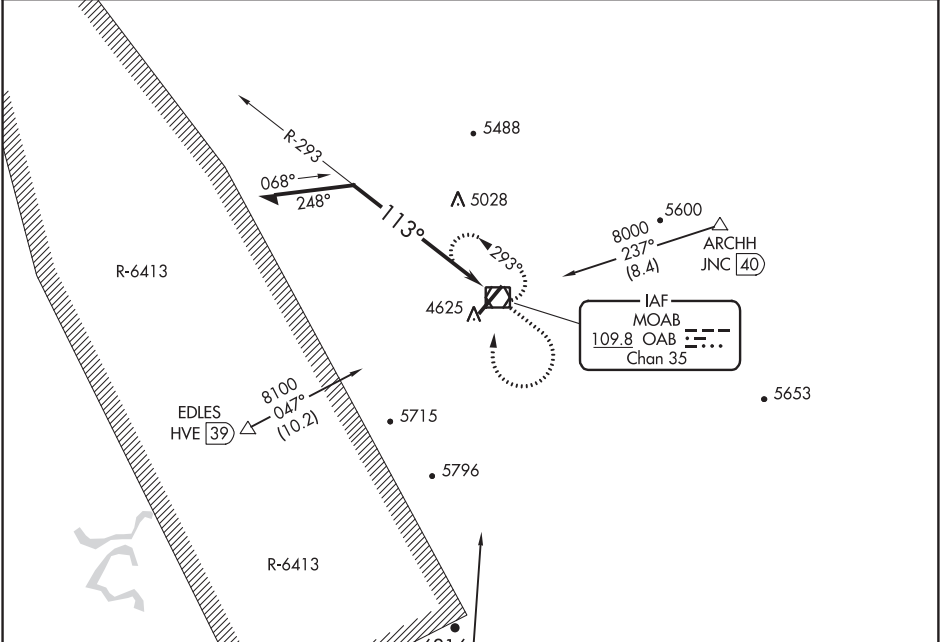
16091

VOR/DME OAB 109.8 Chan 35	APP CRS 113°	Rwy Idg TDZE N/A N/A Apt Elev 4557
--	------------------------	--

VOR-A
CANYONLANDS FIELD (CNY)

NA Procedure not authorized when R-6413 in operation. **MISSED APPROACH:** Climb to 6100 then climbing right turn to 8400 direct OAB VOR/DME and hold, continue climb-in-hold to 8400.

ASOS 118.525	DENVER CENTER 134.5 327.8	UNICOM 122.8 (CTAF)
------------------------	-------------------------------------	-------------------------------



CATEGORY	A	B	C	D
CIRCLING	5640-1¼ 1083 (1100-1¼)	5640-1½ 1083 (1100-1½)	5640-3	1083 (1100-3)

REIL Rwys 3 and 21
MIRL Rwy 3-21

MOAB, UTAH

Amdt 10B 31MAR16

38°45'N-109°45'W

CANYONLANDS FIELD (CNY)
VOR-A

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LAS VEGAS, NEVADA

ILS or LOC/DME X RWY 21L

LOC I-DIQ 109.1	APCH CRS 209°	Rwy Idg 10,051 THRE 1865 Arprt Elev 1869
---------------------------	-------------------------	--

AL-227 [USAF]

NELLIS AFB (KLSV)

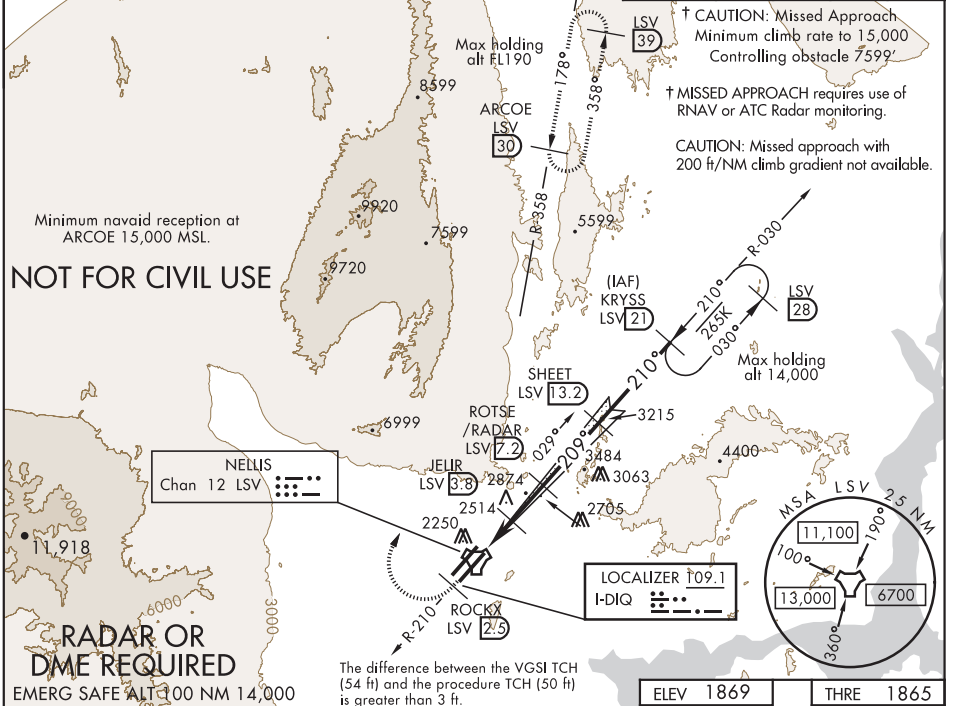
▼ * When ALS inop, increase all CAT RVR to 40, vis to ¼ mile.
 ** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile, CAT CDE vis to 1 ½ miles.

ALS F-1 

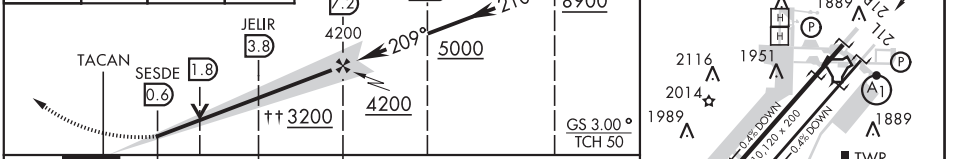
† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV R-358 to ARCOE and hold, continue climb in hold to 15,000.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
----------------------	--	-------------------------------------	-------------------------------	--------------------------------

*** Circling not authorized E of Rwy 3R-21L.	Knobs	60	120	180	240
	V/V(fpm)	399	798	1197	1596



15,000 LSV R-210	ROCKX LSV 2.5	ARCOE R-358 30	†† Loc Only	KRYSS 21
↑	hdg 020°			



LAS VEGAS, NEVADA

LOC/DME Y RWY 21L

LOC I-DIQ 109.1	APCH CRS 209°	Rwy Ldg THRE 1865 Arpt Elev 1869
---------------------------	-------------------------	--

AL-227 [USAF]

NELLIS AFB (KLSV)

* When ALS inop, increase CAT CDE vis to 1 1/2 miles.
 ** Circling not authorized E of Rwy 3R-21L.



† MISSED APPROACH: Climb to 8000, intercept the LAS VORTAC R-018 to 10.3 DME (IREEN), then to LAS and hold, continue climb in hold to 8000.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
----------------------	--	-------------------------------------	-------------------------------	--------------------------------

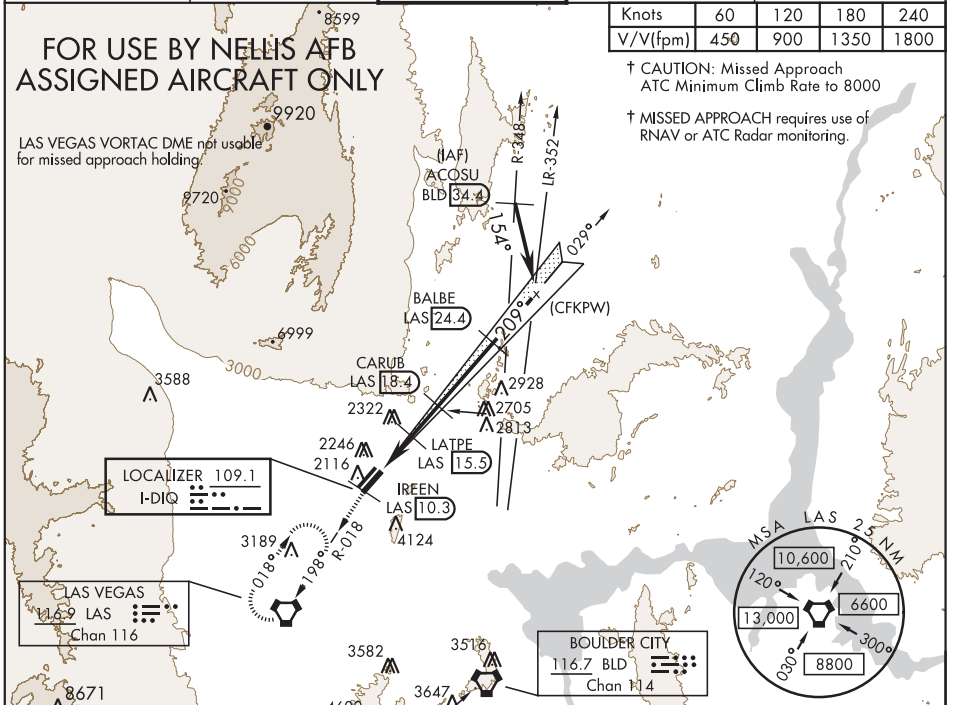
Knots	60	120	180	240
V/V(fpm)	450	900	1350	1800

† CAUTION: Missed Approach
 ATC Minimum Climb Rate to 8000

† MISSED APPROACH requires use of
 RNAV or ATC Radar monitoring.

FOR USE BY NELLIS AFB ASSIGNED AIRCRAFT ONLY

LAS VEGAS VORTAC DME not usable for missed approach holding

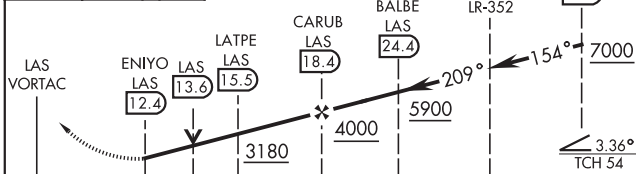


SW-4, 10 NOV 2016 to 05 JAN 2017

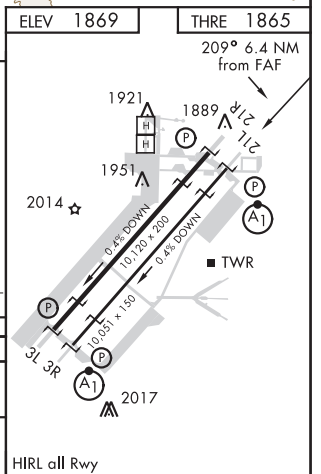
SW-4, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 4,000

8000 LAS R-018	IREEN 10.3	LAS	VGSI and descent angle not coincident. (VGSI Angle 3.00/TCH 54.4)	ACOSU BLD R-348 BLD LR-352 34.4
-------------------	------------	-----	--	---------------------------------------



CATEGORY	C	D	E
S-LOC 21L *	2440-1 1/4 575 (600-1 1/4)		
** CIRCLING	2680-2 1/2 811 (900-2 1/2)	2860-3 991 (1000-3)	3120-3 1251 (1300-3)



LAS VEGAS, NEVADA
Amdt 4 26MAY16

36°14'N-115°02'W

NELLIS AFB (KLSV)

LOC/DME Y RWY 21L

LAS VEGAS, NEVADA

TACAN X RWY 21L

TACAN LSV Chan 12	APCH CRS 210°	Rwy ldg THRE 1865 Arpt Elev 1869
----------------------	------------------	--

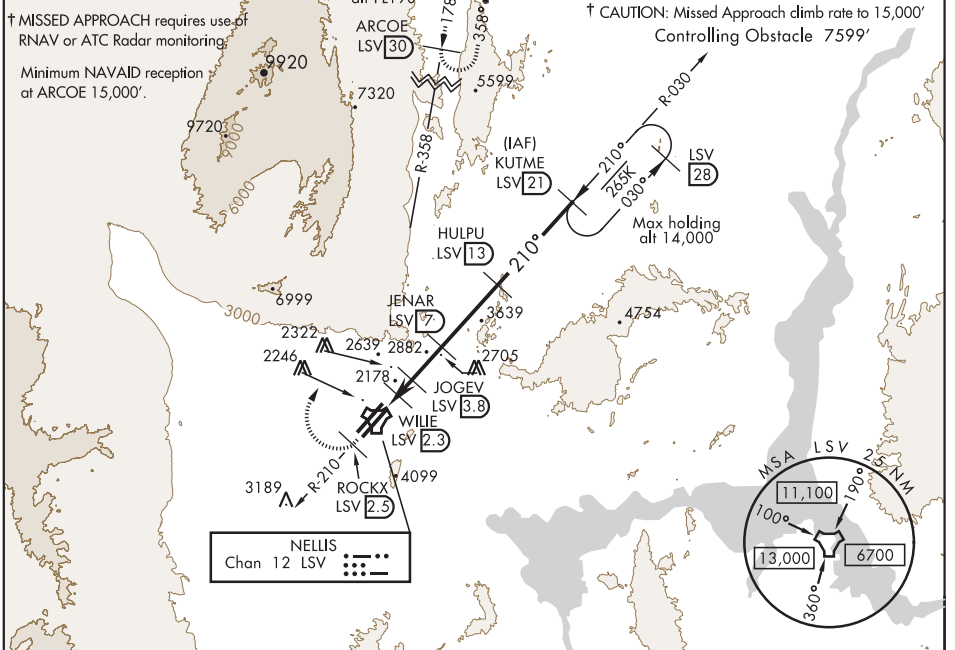
AL-227 [USAF]

NELLIS AFB (KLSV)

▼ * 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.
 † 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 R-358 to ARCOE and hold, continue climb in hold to 15,000.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
---------------	---------------------------------	------------------------------	------------------------	-------------------------

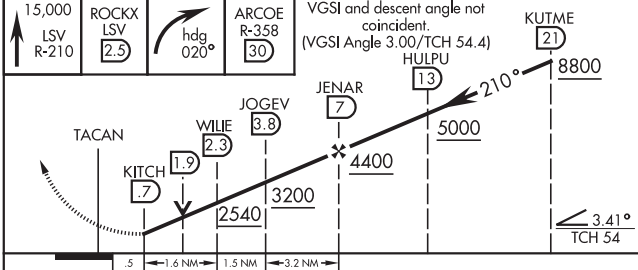
CAUTION: Missed approach with 200 ft/NM climb gradient not available.	<table border="1"> <tr> <td>Knots</td> <td>60</td> <td>120</td> <td>180</td> <td>240</td> </tr> <tr> <td>V/V(fpm)</td> <td>382</td> <td>764</td> <td>1146</td> <td>1528</td> </tr> </table>	Knots	60	120	180	240	V/V(fpm)	382	764	1146	1528
Knots	60	120	180	240							
V/V(fpm)	382	764	1146	1528							



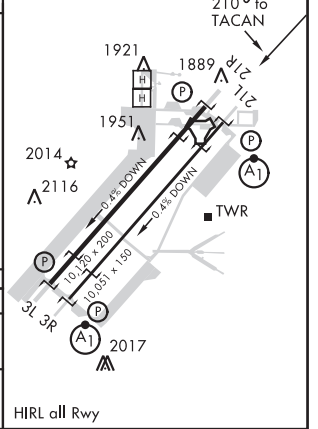
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOT FOR CIVIL USE
EMERG SAFE ALT 100 NM 14,000



ELEV 1869	THRE 1865
-----------	-----------



CATEGORY	A	B	C	D	E
S-21L *	2480/24	615 (700-1/2)	2480-1 3/8	615 (700-1 3/8)	
CIRCLING **	2480-1 611 (700-1)	2680-1 1/4 811 (900-1 1/4)	2680-2 1/2 811 (900-2 1/2)	2860-3 991 (1000-3)	3120-3 1251 (1300-3)

LAS VEGAS, NEVADA
Amdt 6 21JUL16

36°14'N-115°02'W

NELLIS AFB (KLSV)

TACAN X RWY 21L

16315

SIN CITY VISUAL RWY 03L/R

AL-227 (USAF)

NELLIS AFB (KLSV)

LAS VEGAS, NEVADA

FOR USE BY FLYABILITY OR FLIGHT CHECK AIRCREWS ONLY

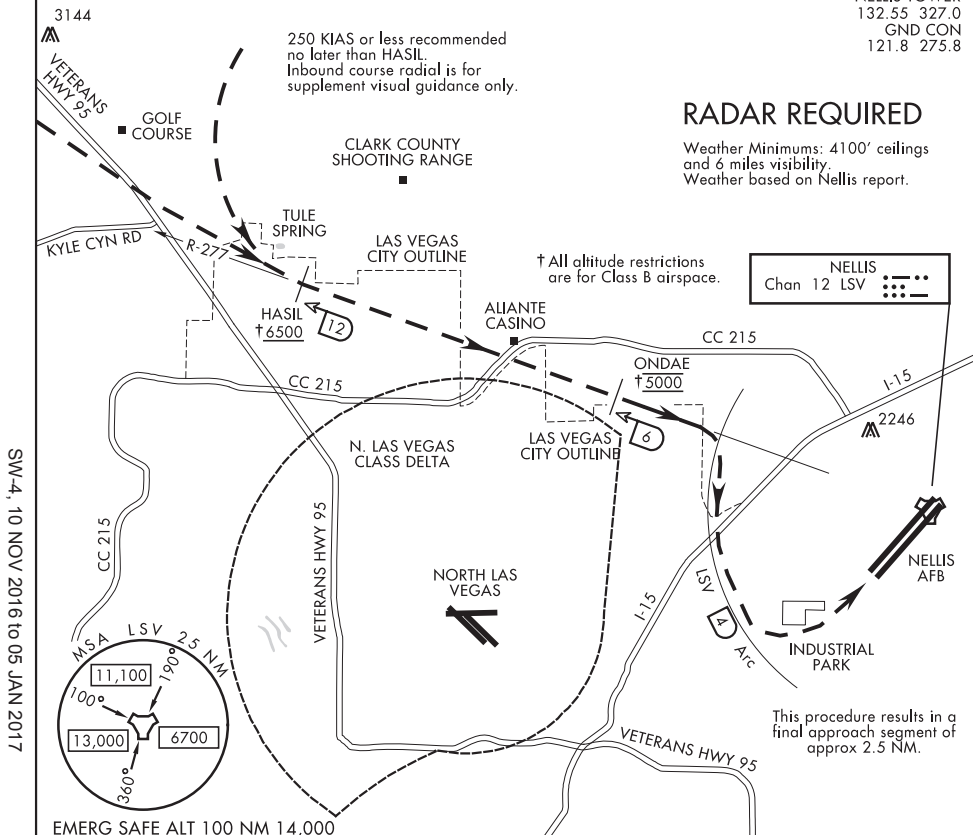
GASS PEAK
● 6943

ATIS 270.1
 NELLIS APP CON 124.95 273.55
 NELLIS TOWER 132.55 327.0
 GND CON 121.8 275.8

250 KIAS or less recommended no later than HASIL. Inbound course radial is for supplement visual guidance only.

RADAR REQUIRED

Weather Minimums: 4100' ceilings and 6 miles visibility. Weather based on Nellis report.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 14,000

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

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 and/or an altitude to maintain until established 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 established 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 remain within 4 DME to protect against Las Vegas Approach airspace/traffic. Tower will assign either RWY 03 L/R.

SIN CITY VISUAL RWY 03L/R

36°14'N-115°02'W

LAS VEGAS, NEVADA

NELLIS AFB (KLSV)

Orig 10NOV16



DREAM FOUR DEPARTURE (DREAM4 • 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)	245	490	735	980	1225	1470
† 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

NOT FOR CIVIL USE

* Minimum † ATC Climb Rate

- (a) to 3600
- (b) to 3100
- (c) to 17,000
- (d) to 8500

- ① 12.24 NM from Rwy 21R
- ② 12.40 NM from Rwy 21L
- ③ 5.67 NM from Rwy 3L
- ④ 5.85 NM from Rwy 3R

CAUTION: If unable to comply with restrictions advise ATC prior to departure.

** Lead DME:
 ATALF - LSV 9.5
 HEREM - LSV 8.8

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

FYTTR THREE DEPARTURE (FYTTR3 • FYTTR) SHL-227 [USAF]

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 (A)	V/V(fpm)	400	800	1200	1600	2000	2400
3R (A)	V/V(fpm)	395	790	1185	1580	1975	2370
21L/R (B)	V/V(fpm)	390	780	1170	1560	1950	2340

Minimum Climb Rate

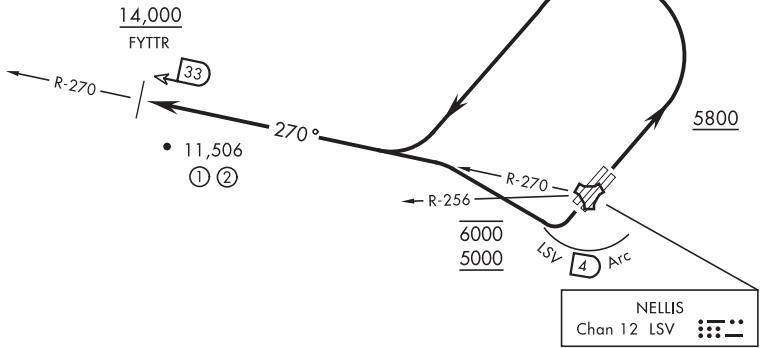
- (A) to 9600
- (B) to 13,500

RADAR REQUIRED ABOVE FL190
RADAR REQUIRED FOR
RWY 3L/R DEPARTURES

- ① 29.81 NM from Rwy 21L
- ② 29.67 NM from Rwy 21R
- ③ 15.43 NM from Rwy 3L
- ④ 15.57 NM from Rwy 3R

CAUTION: If unable to comply with restrictions advise ATC prior to departure.

③ ④
7599



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

MORMON MESA FOUR DEPARTURE (MMM4 • MMM)

NELLIS AFB (KLSV)
LAS VEGAS, NEVADA

SHL-227 [USAF]

ATIS
270.1
CLINC DEL
120.9 289.4
GND CON
121.8 275.8
NELLIS TOWER
132.55 327.0
NELLIS DEP CON
135.1 385.4
LOS ANGELES CENTER
124.2 134.65 307.9 343.6

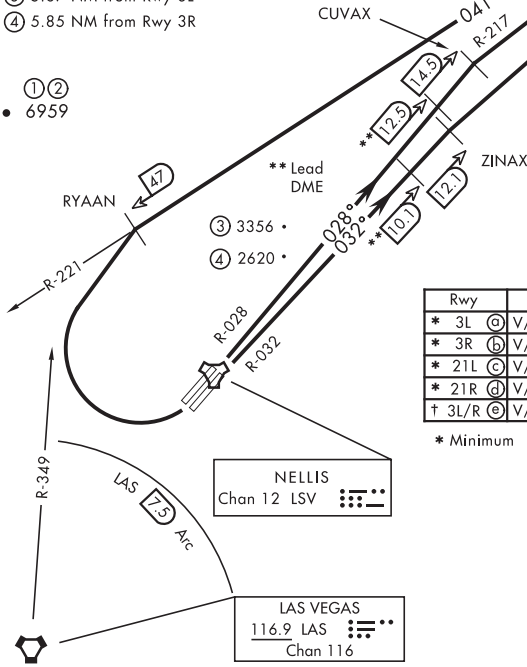
MORMON MESA
114.3 MMM
Chan 90
L-9, H-3

**RADAR REQUIRED
ABOVE FL190**

- ① 12.24 NM from Rwy 21R
- ② 12.40 NM from Rwy 21L
- ③ 5.67 NM from Rwy 3L
- ④ 5.85 NM from Rwy 3R

- ① ②
- 6959

CAUTION: If unable to comply with restrictions advise ATC prior to departure



Rwy	Knots	60	120	180	240	300	360
* 3L (a)	V/V(fpm)	291	582	873	1164	1455	1746
* 3R (b)	V/V(fpm)	258	516	774	1032	1290	1548
* 21L (c)	V/V(fpm)	529	1058	1587	2116	2645	3174
* 21R (d)	V/V(fpm)	536	1072	1680	2144	2680	3216
† 3L/R (e)	V/V(fpm)	359	718	1077	1436	1795	2154

* Minimum † ATC Climb Rate
 (a) To 3600
 (b) To 3200
 (c) To 17,000
 (d) To 13,500
 (e) To 19,000

NOTE: Chart not to scale

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, 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 FOUR DEPARTURE (MMM4 • MMM)

LAS VEGAS, NEVADA
NELLIS AFB (KLSV)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 63221 W17A	APP CRS 168°	Rwy Idg TDZE Apt Elev	6300 5005 5022
--	------------------------	-----------------------------	---

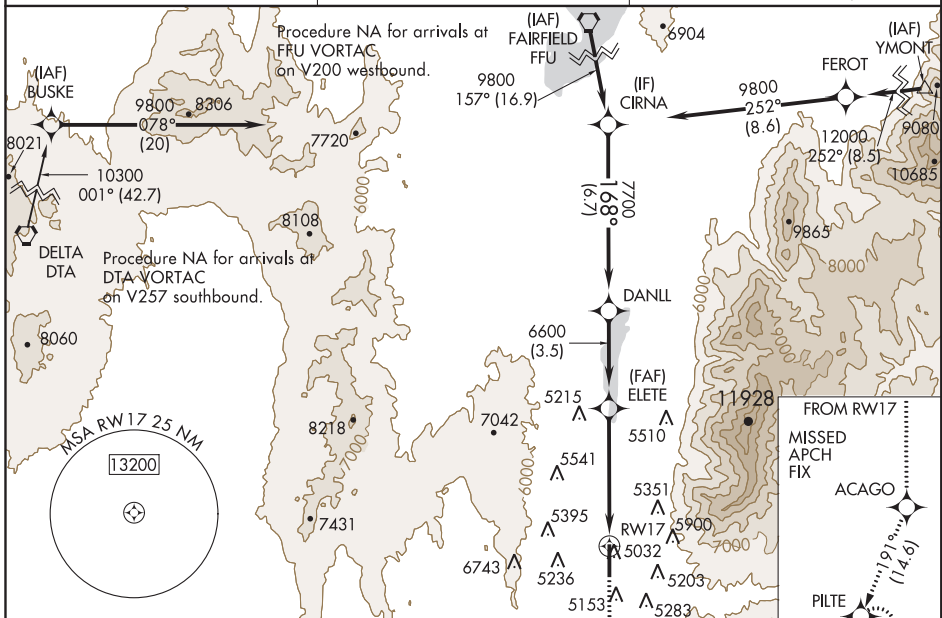
RNAV (GPS) RWY 17

NEPHI MUNI (U14)

⚠ Baro-VNAV NA when using Provo Muni altimeter setting. For uncompensated Baro-VNAV NA 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.

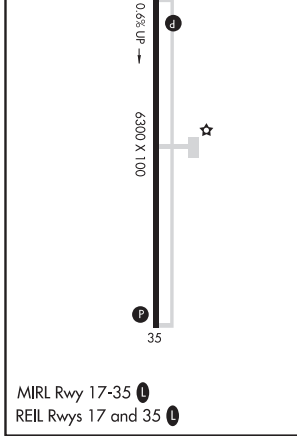
AWOS-3 118.275	SALT LAKE CENTER 127.825 284.675	UNICOM 123.075 (CTAF)
---------------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5022	TDZE 5005
------------------	------------------



11400	ACAGO	PILTE	CIRNA
↑	✦	191°	✦
*LNAV only.		ELETE	DANLL
*2.4 NM to RWY 17		6600	7700
RWY 17		6600	9800
2.4 NM		2.5 NM	3.5 NM
		6.7 NM	
		GP 3.00°	TCH 40

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)

WAAS CH 58221 W35A	APP CRS 348°	Rwy Idg TDZE Apt Elev	6300 5022 5022
--	------------------------	-----------------------------	---

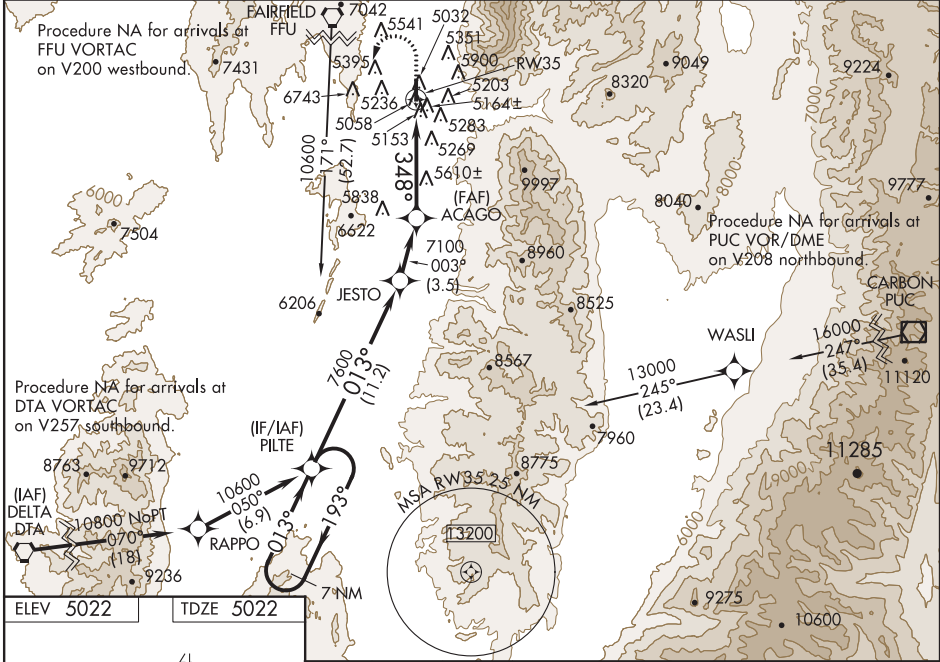
RNAV (GPS) RWY 35

NEPHI MUNI (U14)

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. Helicopter visibility reduction below ¾ SM NA. VDP NA with Provo Muni altimeter setting.

MISSED APPROACH: Climb to 8200 then climbing left turn to 10600 direct PILTE and hold.

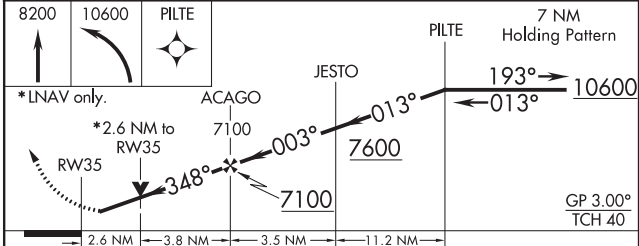
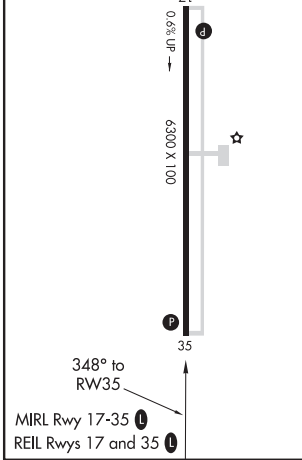
AWOS-3 118.275	SALT LAKE CENTER 127.825 284.675	UNICOM 123.075 (CTAF)
--------------------------	--	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5022	TDZE 5022
-----------	-----------



CATEGORY	A	B	C	D
LPV DA		5272-7/8	250 (300-7/8)	
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)

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.

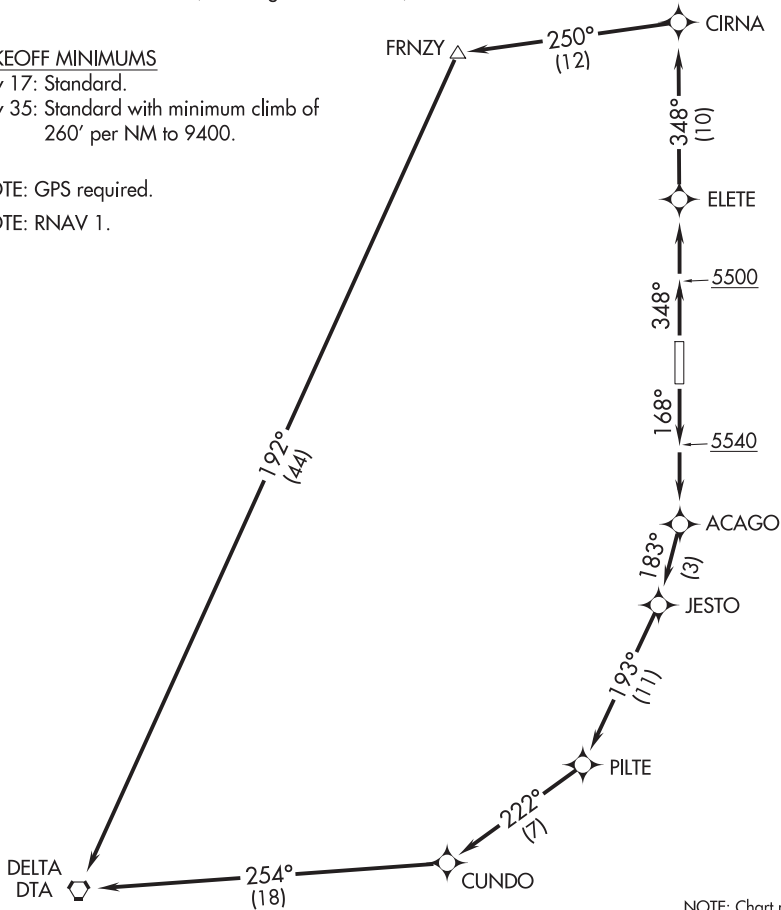
SALT LAKE CENTER
127.825 284.675

TAKEOFF MINIMUMS

Rwy 17: Standard.
 Rwy 35: Standard with minimum climb of
 260' per NM to 9400.

NOTE: GPS required.

NOTE: RNAV 1.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 MEA or ATC assigned altitude before proceeding on course.

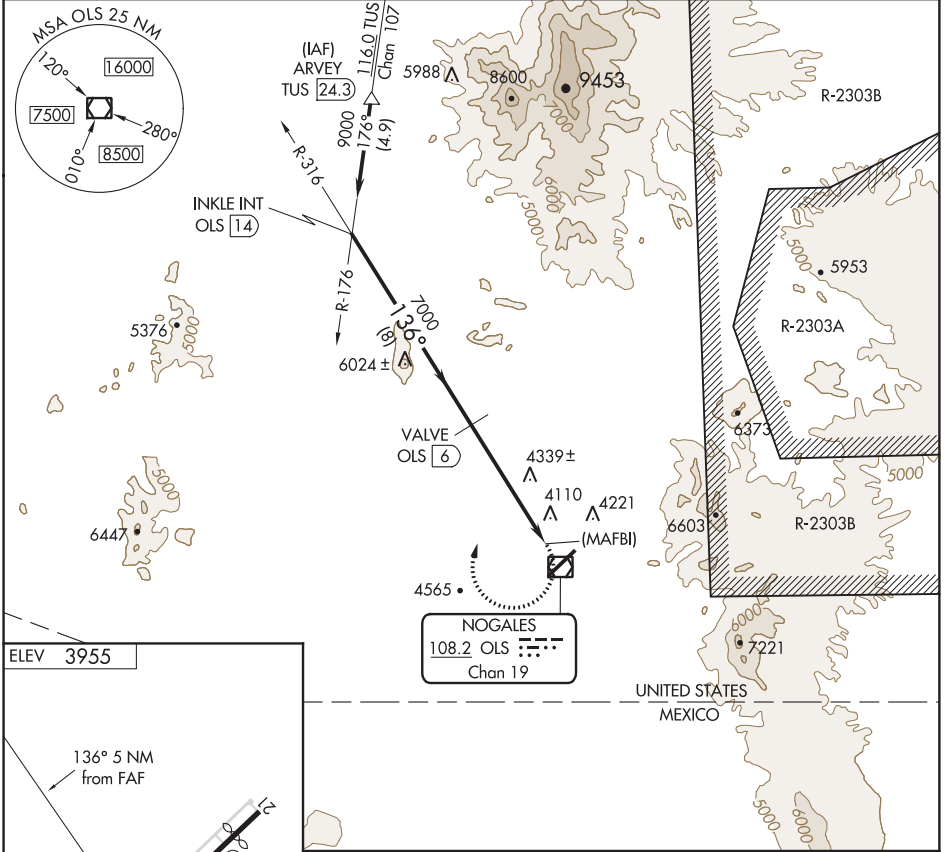
VOR/DME OLS 108.2 Chan 19	APP CRS 136°	Rwy Idg TDZE Apt Elev N/A N/A 3955
---	------------------------	--

VOR/DME or GPS-B

NOGALES INTL (OLS)

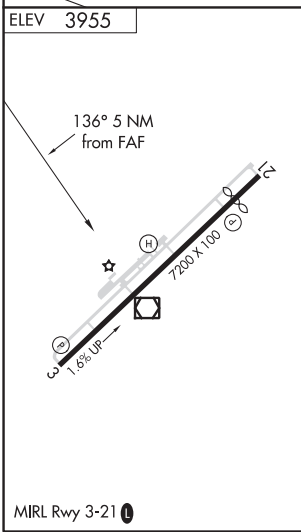
<p>▼ Night landing Rwy 21 NA.</p> <p>▲ NA Helicopter visibility reduction below 1 SM not authorized. When local altimeter setting not received, procedure NA.</p>	<p>MISSED APPROACH: Climbing right turn to 7600 via OLS R-316 then climbing left turn to 10000 direct OLS VOR/DME.</p>
---	--

<p>ASOS 121.125</p>	<p>TUCSON APP CON 125.1 269.55</p>	<p>UNICOM 122.8 (CTAF)</p>
--------------------------------	---	---------------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



<p>Procedure Turn NA</p>	<p>INKLE INT OLS 14</p>	<p>VALVE OLS 6</p>	<p>7600 OLS R-316</p>	<p>10000 OLS</p>
	<p>9000</p>	<p>7000</p>	<p>(MAFBI) OLS 1</p>	
<p>8 NM</p>	<p>5 NM</p>			
<p>CATEGORY</p>	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>
<p>CIRCLING</p>	<p>5200-1¼ 1245 (1300-1¼)</p>	<p>5200-1½ 1245 (1300-1½)</p>	<p>5200-3</p>	<p>1245 (1300-3)</p>

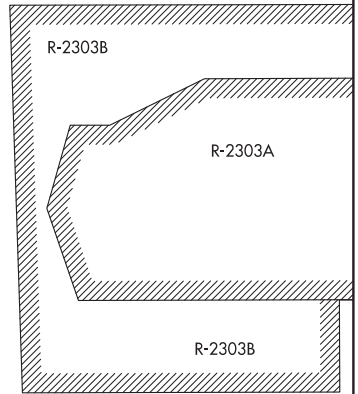
TUCSON
116.0 TUS
Chan 107
N32°05.71'-W110°54.89'
L-5, H-4

ASOS
121.125
TUCSON DEP CON
125.1 269.55
UNICOM
122.8 (CTAF)

TAKEOFF OBSTACLE NOTES

Rwy 3: Trees and bushes beginning 123' from DER, 88' right of centerline, 98' AGL/4253' MSL. Trees and poles beginning 335' from DER, 13' left of centerline, up to 67' AGL/4087' MSL.
Rwy 21: Bush 117' from DER, 49' right of centerline, 5' AGL/3842' MSL. Bush 119' from DER, 201' left of centerline, up to 5' AGL/3844' MSL.

ARVEY
N31°41.64'
W110°58.85'



TAKE-OFF MINIMUMS

Rwy 3: 300-1 1/4 with minimum climb of 335' per NM to 7000 or 1300-3 for climb in visual conditions.
Rwy 21: Standard with minimum climb of 350' per NM to 7000 or 1300-3 for climb in visual conditions.

UNITED STATES
MEXICO

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 296° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, or for climb in visual conditions cross Nogales Intl airport at or above 5100' then climb via OLS R-326 to ARVEY, thence. . . .

TAKEOFF RUNWAY 21: Climbing right turn heading 356° to intercept OLS VOR/DME R-326 to ARVEY INT/OLS 18 DME, or for climb in visual conditions cross Nogales Intl airport above 5100' then climb via OLS R-326 to ARVEY, thence. . . .

. . . . via TUS VORTAC R-176 to cross TUS VORTAC at or above MEA/MCA for assigned route of flight.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) Y RWY 3

OGDEN-HINCKLEY (OGD)

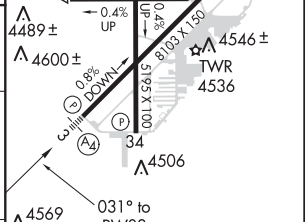
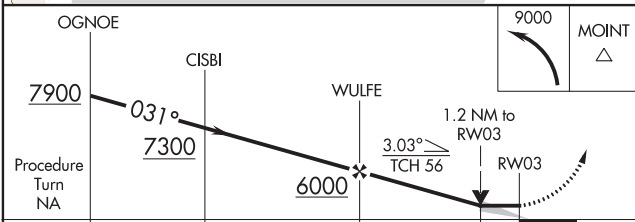
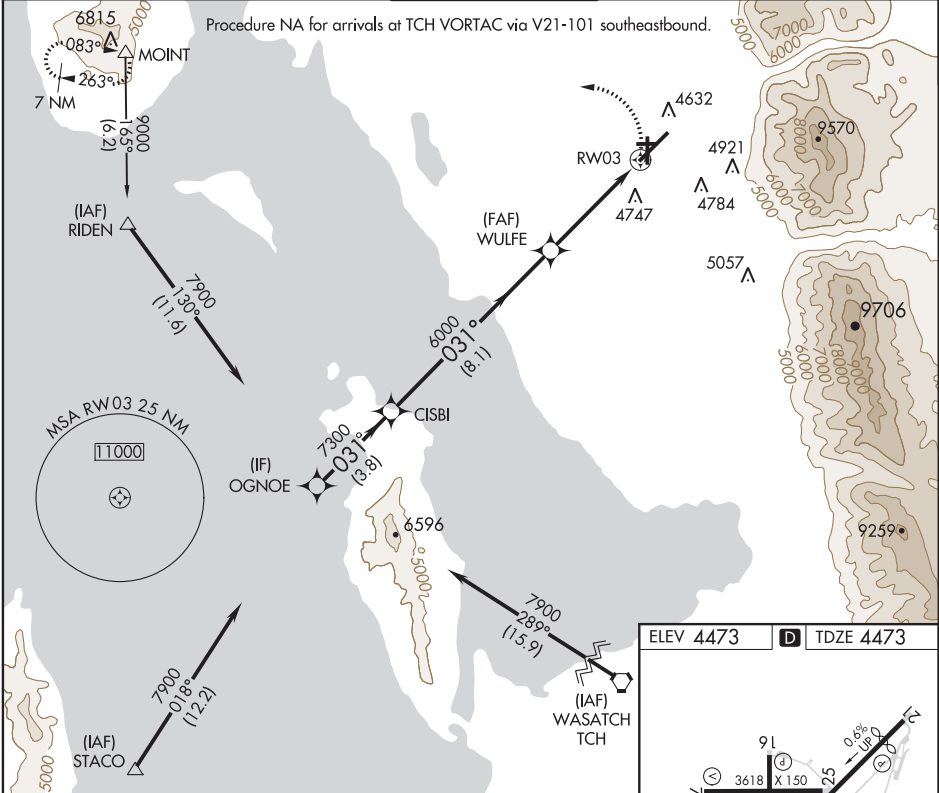
APP CRS 031°	Rwy Idg 7252
	TDZE 4473
	Apt Elev 4473

▽ DME/DME RNP- 0.3 NA.
▲ When local altimeter setting not received, use Hill AFB altimeter setting.
 When VGS1 inoperative, circling Rwy 7 and 16 NA at night.
 Inoperative table does not apply to LNAV Cat C.

MALS

MISSED APPROACH: Climbing left turn to 9000 direct MOINT and hold, continue climb-in-hold to 9000.

ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER* 118.7 (CTAF) 0 253.5	GND CON 121.7	UNICOM 122.95
-----------------------	---	--	-------------------------	-------------------------



CATEGORY	A	B	C	D
LNAV MDA	4920-3/4 507 (600-1)	447 (500-3/4) 587 (600-1)	4920-1 1/4 447 (500-1 1/4)	4920-1 1/2 447 (500-1 1/2)
CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5060-1 1/2 587 (600-1 1/2)	5100-2 627 (700-2)

HIRL Rwy 3-21
 MIRL Rwy 16-34
 REIL Rwy 16 and 34

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

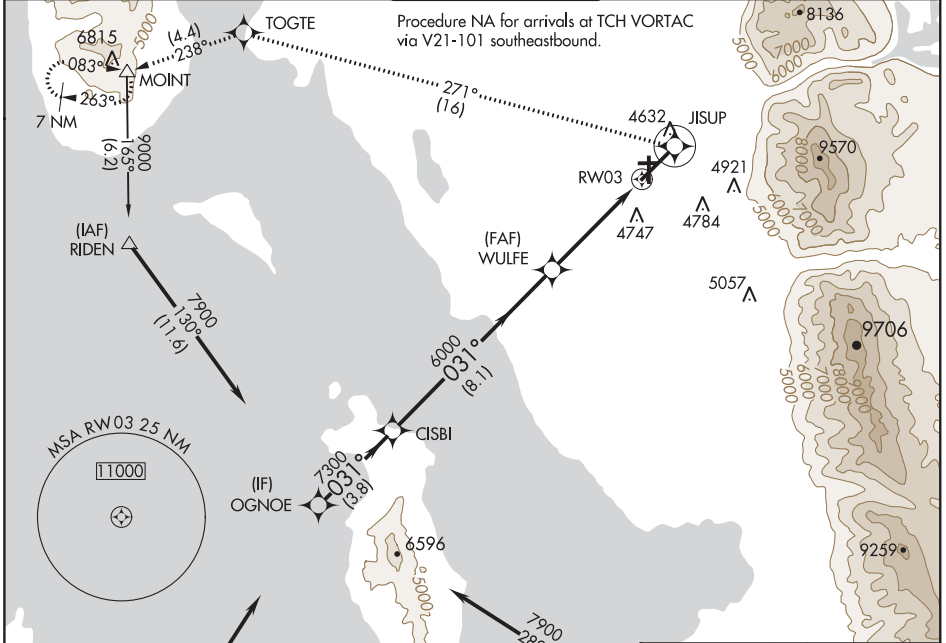
WAAS CH 65620 W03A	APP CRS 031°	Rwy Idg TDZE Apt Elev	7252 4473 4473
--	------------------------	-----------------------------	---

RNAV (GPS) Z RWY 3

OGDEN-HINCKLEY (OGD)

<p>NA</p> <p>DME/DME RNP-0.3 NA. When local altimeter setting not received, use Hill AFB altimeter setting. Inoperative table does not apply.</p>	<p>MALS</p> <p>A4</p>	<p>MISSED APPROACH: Climb to 9000 direct JISUP and via 271° track to TOGTE and via 238° track to MOINT and hold, continue climb-in-hold to 9000.</p>
--	------------------------------	--

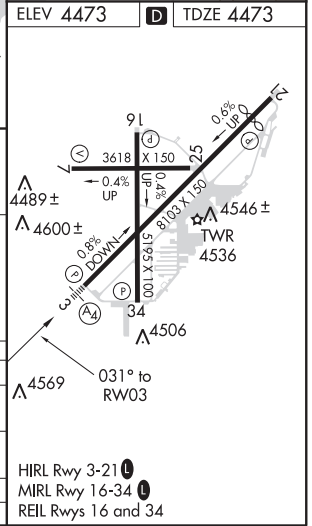
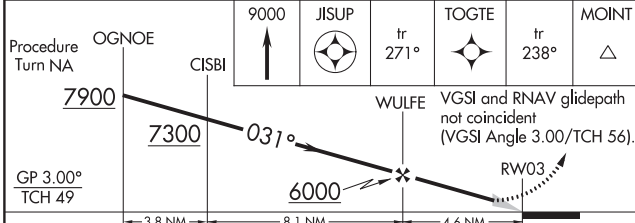
ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER* 118.7 (CTAF) 0 253.5	GND CON 121.7	UNICOM 122.95
-----------------------	---	---	-------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4473	D TDZE 4473
-----------	--------------------



CATEGORY	A	B	C	D
LPV DA	4890-1½		417 (500-1½)	
LNNAV/VNAV DA	NA			
LNNAV MDA	NA			
CIRCLING	NA			

VORTAC OGD 115.7 Chan 104	APP CRS 101°	Rwy Idg 3618 TDZE 4448 Apt Elev 4473
---	------------------------	---

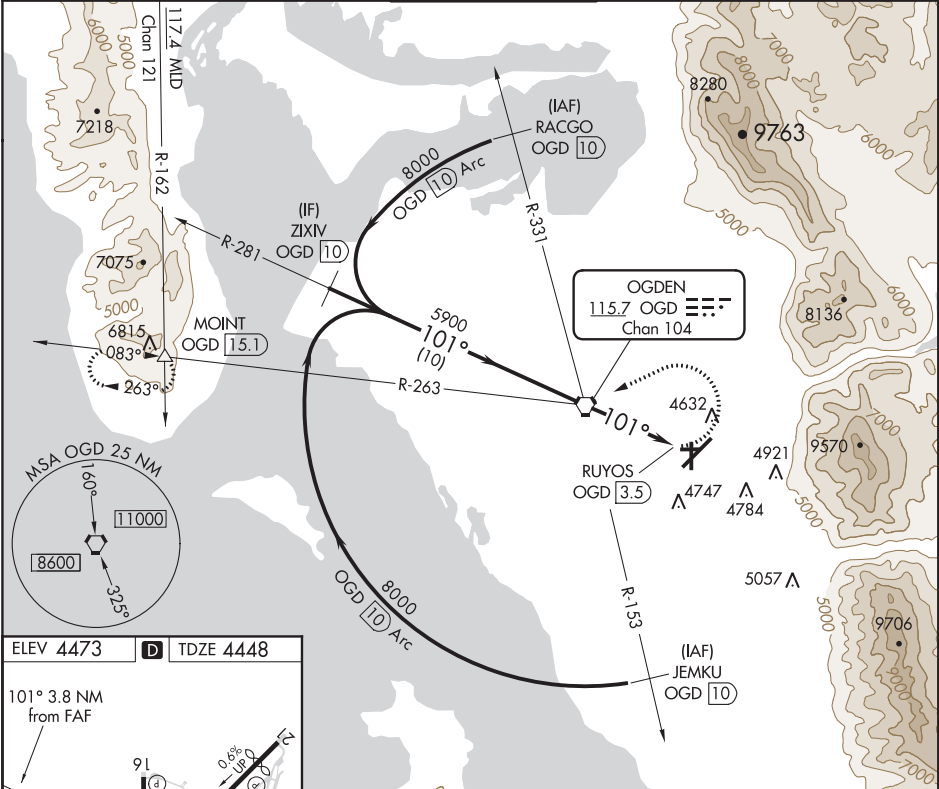
VOR/DME RWY 7

OGDEN-HINCKLEY (OGD)

When local altimeter setting not received, use Hill AFB altimeter setting.
When VGSI inoperative, straight-in/circling Rwy 7 procedure NA at night.
When VGSI inoperative, circling Rwy 16 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct OGD VORTAC and via OGD VORTAC R-263 to MOINT/15.1 DME and hold, continue climb-in-hold to 9000.

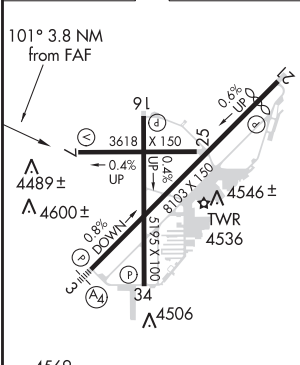
ATIS 125.55	SALT LAKE CITY APP CON 121.1 319.25	OGDEN TOWER* 118.7 (CTAF) 253.5	GND CON 121.7	UNICOM 122.95
-----------------------	---	---	-------------------------	-------------------------



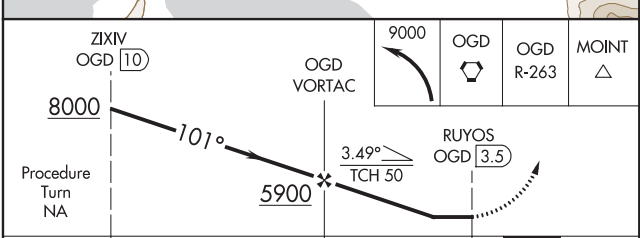
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4473	D	TDZE 4448
-----------	----------	-----------



HIRL Rwy 3-21
MIRL Rwy 16-34
REIL Rws 16 and 34



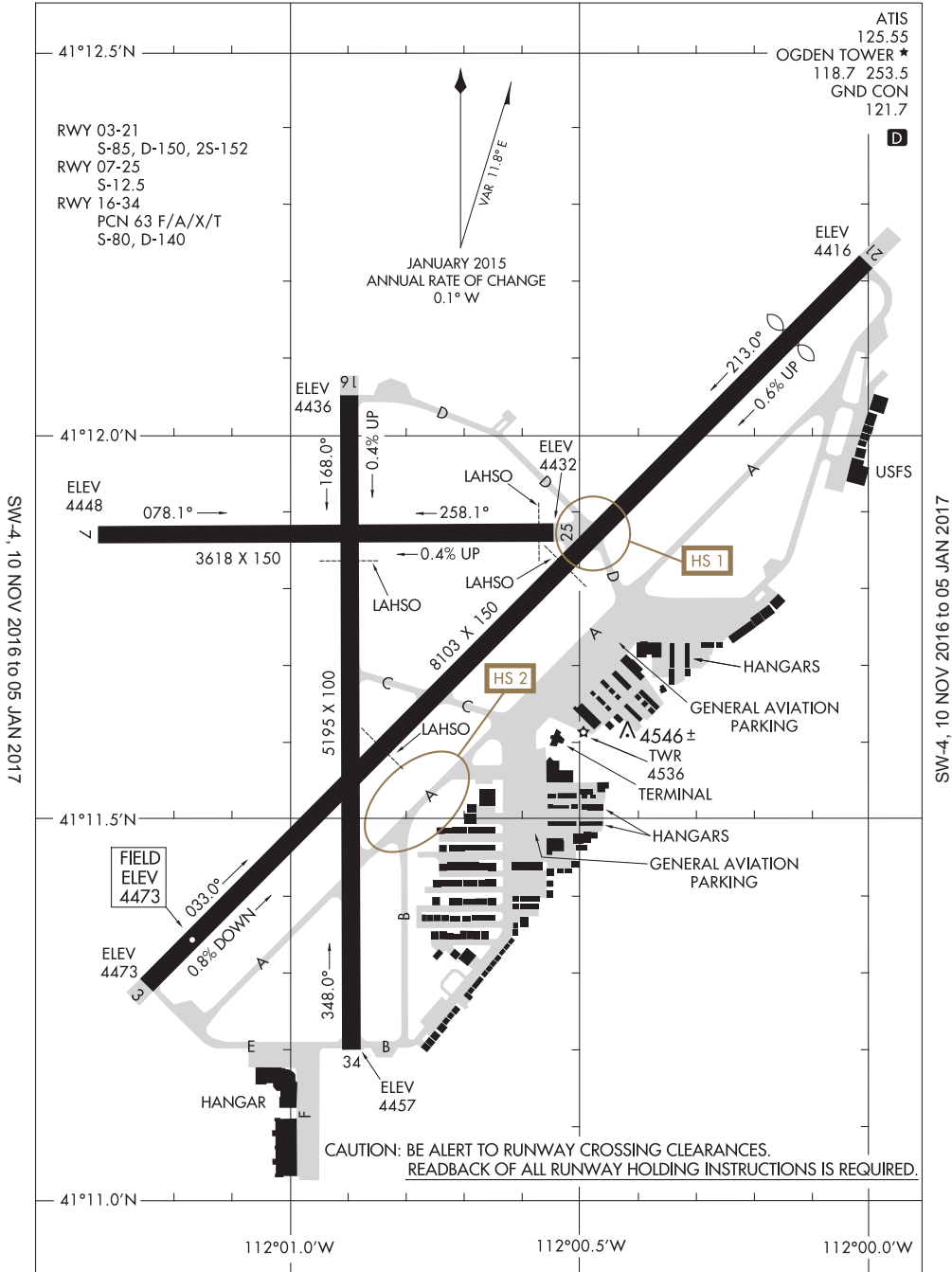
CATEGORY	A	B	C	D
S-7	4900-1	452 (500-1)	4900-1¼ 452 (500-1¼)	4900-1½ 452 (500-1½)
CIRCLING	4980-1 507 (600-1)	5060-1 587 (600-1)	5060-1½ 587 (600-1½)	5100-2 627 (700-2)

AIRPORT DIAGRAM

AL-297 (FAA)

OGDEN-HINCKLEY (OGD)

OGDEN, UTAH



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017


AIRPORT DIAGRAM

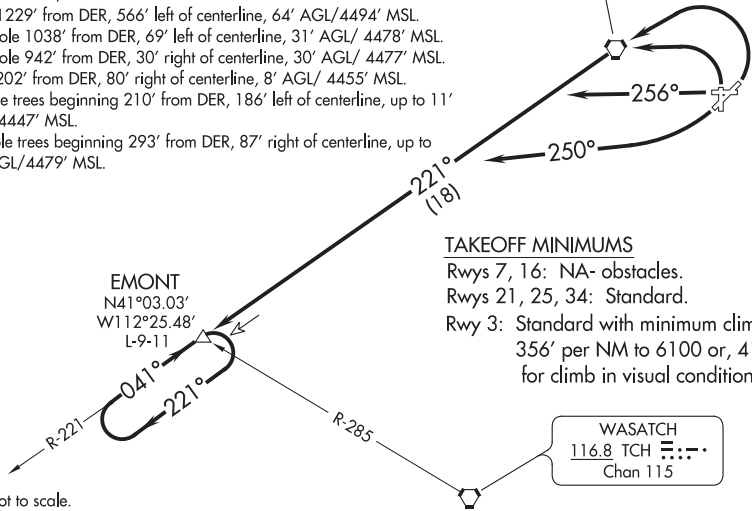
OGDEN, UTAH OGDEN-HINCKLEY (OGD)

TAKEOFF OBSTACLE NOTES

- Rwy 3: Multiple trees beginning 376' from DER, 62' left of centerline, up to 42' AGL/4451' MSL.
Tree 430' from DER, 503' right of centerline, 46' AGL/4455' MSL.
Flagpole 348' from DER, 583' right of centerline, 42' AGL/4451' MSL.
Lightpole 241' from DER, 535' left of centerline, 38' AGL/4447' MSL.
Pole 628' from DER, 611' right of centerline, 45' AGL/ 4454' MSL.
OL on DME 195' from DER, 268' right of centerline, 17' AGL/ 4426' MSL.
Road 231' from DER, 470' right of centerline, 14' AGL/ 4423' MSL.
Lightpole 396' from DER, 385' right of centerline, 16' AGL/ 4425' MSL.
Road 158' from DER, 307' left of centerline, 10' AGL/4419' MSL.
- Rwy 21: Multiple trees and poles beginning 702' from DER, 6' left of centerline, up to 98' AGL/4570' MSL.
Multiple trees beginning 2001' from DER, 421' right of centerline, up to 89' AGL/ 4561' MSL.
Rod on building 2465' from DER, 858' left of centerline, 62' AGL/4541' MSL.
- Rwy 25: Multiple trees and bushes beginning 188' from DER, 244' left of centerline, up to 81' AGL/ 4528' MSL.
Tank 1229' from DER, 566' left of centerline, 64' AGL/4494' MSL.
Lightpole 1038' from DER, 69' left of centerline, 31' AGL/ 4478' MSL.
Lightpole 942' from DER, 30' right of centerline, 30' AGL/ 4477' MSL.
Bush 202' from DER, 80' right of centerline, 8' AGL/ 4455' MSL.
- Rwy 34: Multiple trees beginning 210' from DER, 186' left of centerline, up to 11' AGL/4447' MSL.
Multiple trees beginning 293' from DER, 87' right of centerline, up to 43' AGL/4479' MSL.

ATIS 125.55
GND CON 121.7
OGDEN TOWER * 118.7 253.5
SALT LAKE CITY DEP CON 121.1 319.25

OGDEN
115.7 OGD 
Chan 104
N41°13.45'-W120°05.90'



TAKEOFF MINIMUMS

- Rwys 7, 16: NA- obstacles.
- Rwys 21, 25, 34: Standard.
- Rwy 3: Standard with minimum climb of 356' per NM to 6100 or, 4100-3 for climb in visual conditions.

WASATCH
116.8 TCH 
Chan 115

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

- TAKEOFF RUNWAY 3: Climbing left turn direct OGD VORTAC then via OGD R-221 to EMONT INT/OGD 18 DME, thence. . . . Or, climb in visual conditions to cross OGD VORTAC southwest bound at or above 8500, then on OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
 - TAKEOFF RUNWAY 21: Climbing right turn heading 250° to intercept OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
 - TAKEOFF RUNWAY 25: Climb heading 256° to intercept OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
 - TAKEOFF RUNWAY 34: Climbing left turn direct OGD VORTAC then via OGD R-221 to EMONT INT/OGD 18 DME, thence. . . .
-Climb in EMONT INT holding pattern to MEA/MCA for assigned route of flight.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45604 W15A	APP CRS 156°	Rwy Idg 5950 TDZE 4264 Apt Elev 4316
--	------------------------	---

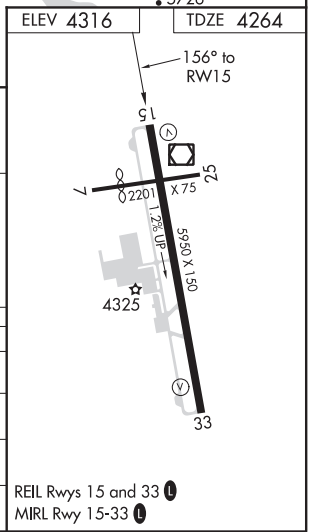
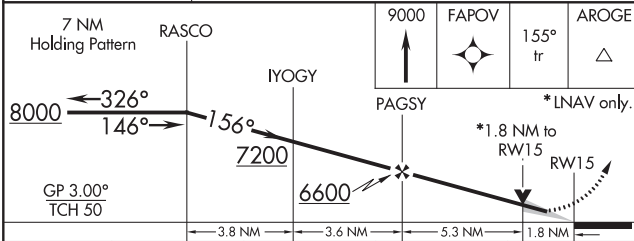
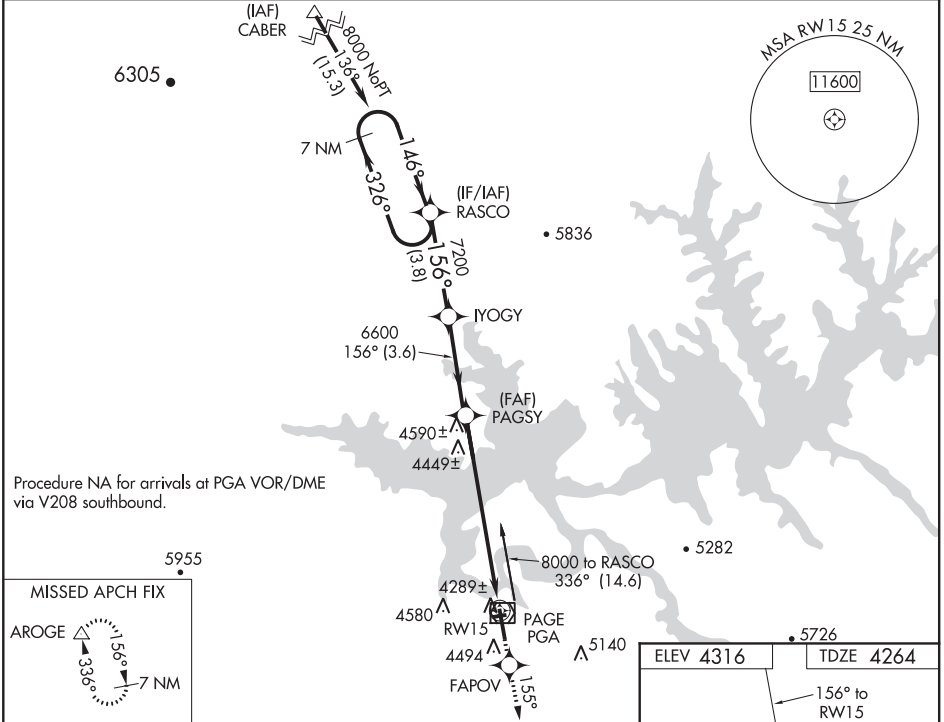
RNAV (GPS) RWY 15

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 120.625	DENVER CENTER 127.55 256.87	UNICOM 122.8 (CTAF) 0
------------------------	---------------------------------------	--



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)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 69204 W33A	APP CRS 336°	Rwy Idg 5950 TDZE 4316 Apt Elev 4316
--	------------------------	---

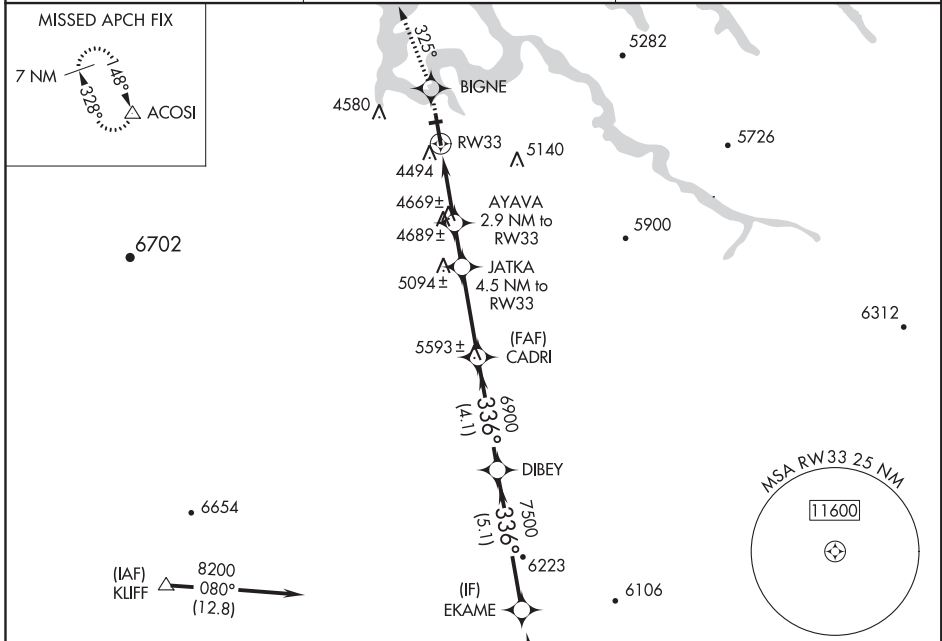
RNAV (GPS) RWY 33

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 120.625	DENVER CENTER 127.55 256.87	UNICOM 122.8 (CTAF)
------------------------	---------------------------------------	-------------------------------

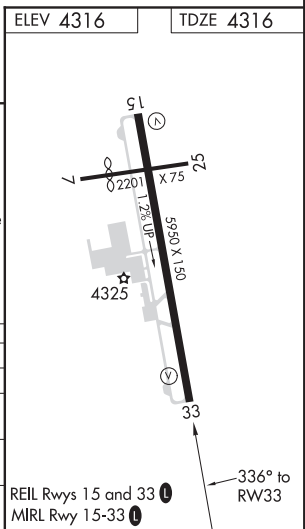


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

Procedure NA for arrivals at CELAY via V208 southbound.

8500	BIGNE	ACOSI	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 30).		EKAME
↑	325° tr	△	JATKA	CADRI	DIBEY
*LNAV only.		AYAVA	4.5 NM to RW33		
*1.8 NM to RW33		5280	5800	6900	8200
1.8 NM	1.1 NM	1.6 NM	3.3 NM	4.1 NM	5.1 NM
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
CIRCLING	4920-1	604 (700-1)	4920-1¾	604 (700-1¾)	4920-2

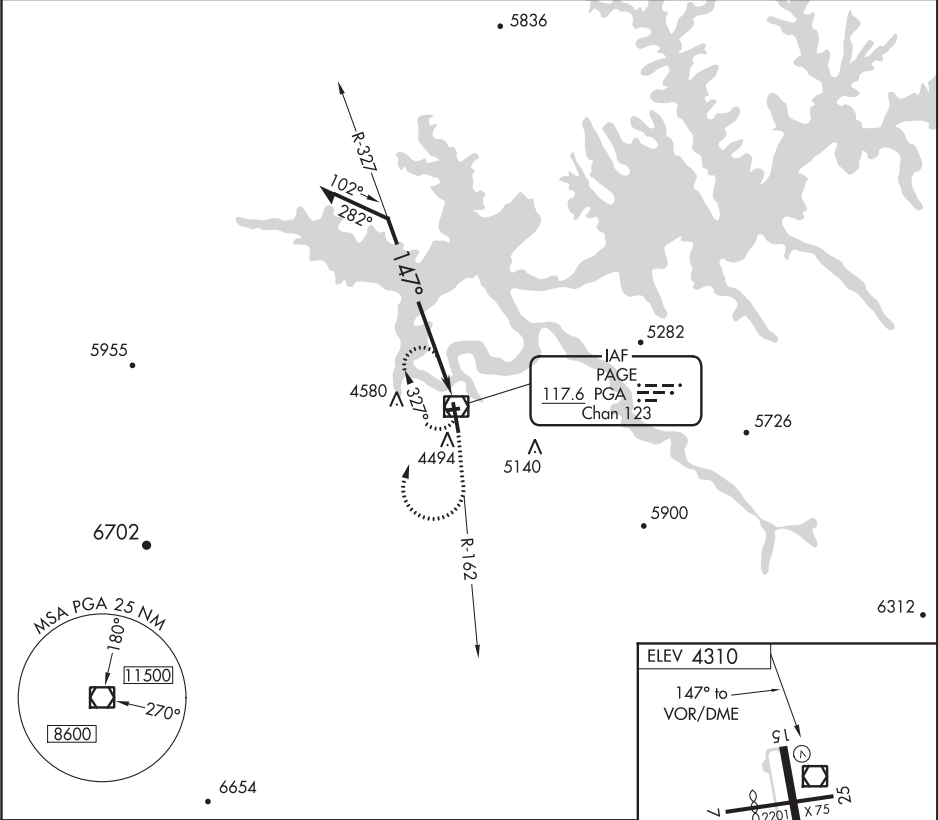


VOR/DME PGA 117.6 Chan 123	APP CRS 147°	Rwy Idg TDZE Apt Elev	N/A N/A 4310
---	------------------------	-----------------------------	---

VOR-B
PAGE MUNI (PGA)

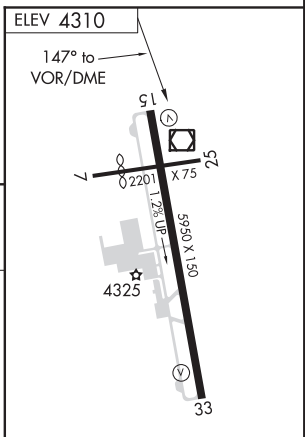
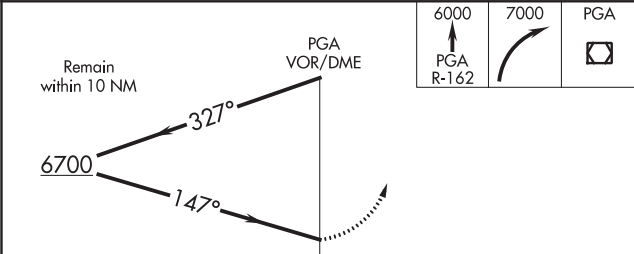
NA Circling not authorized to Rwy 7-25.	MISSED APPROACH: Climb on the PGA R-162 to 6000, then climbing right turn to 7000 direct PGA VOR/DME and hold.
--	--

ASOS 120.625	DENVER CENTER 127.55 256.87	UNICOM 122.8 (CTAF)
------------------------	---------------------------------------	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 890 (900-1¼)		5200-2¾ 890 (900-2¾)	5200-3 890 (900-3)

REIL Rwys 15 and 33
MIRL Rwy 15-33

WAAS CH 82418 W18A	APP CRS 186°	Rwy Idg TDZE Apt Elev	5700 6763 6763
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 18

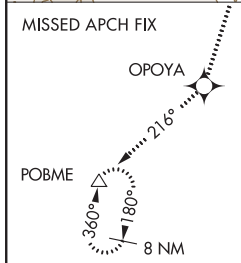
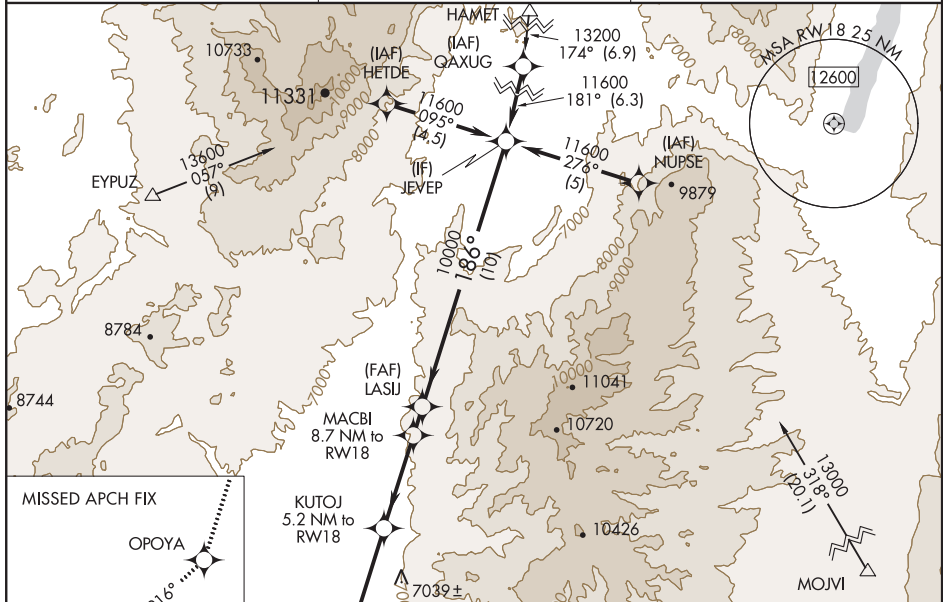
PANGUITCH MUNI (U55)

⚠ 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.

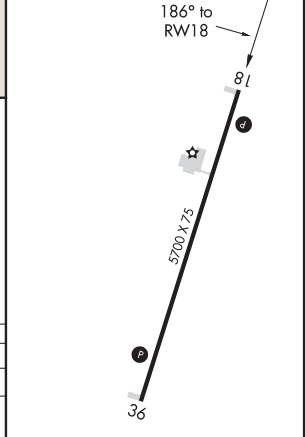
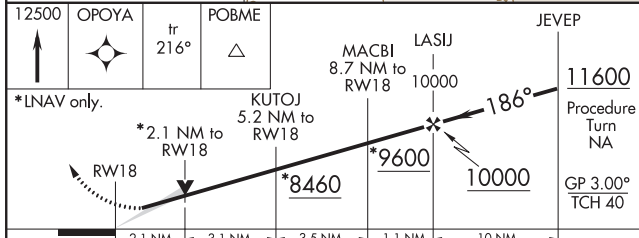
⚠ -27°C/-17°F

MISSED APPROACH: Climb to 12500 direct OPOYA and on track 216° to POBME and hold, continue climb-in-hold 12500.

AWOS-3 133.125	SALT LAKE CENTER 133.6 269.25	CTAF 122.9
--------------------------	---	----------------------



ELEV 6763	TDZE 6763
-----------	-----------



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
CIRCLING	7460-1	697 (700-1)		NA

MIRL Rwy 18-36
REIL Rwy 18 and 36

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

PANGUITCH, UTAH

AL-9439 (FAA)

15176

APP CRS	Rwy Idg	5700
005°	TDZE	6757
	Apt Elev	6763

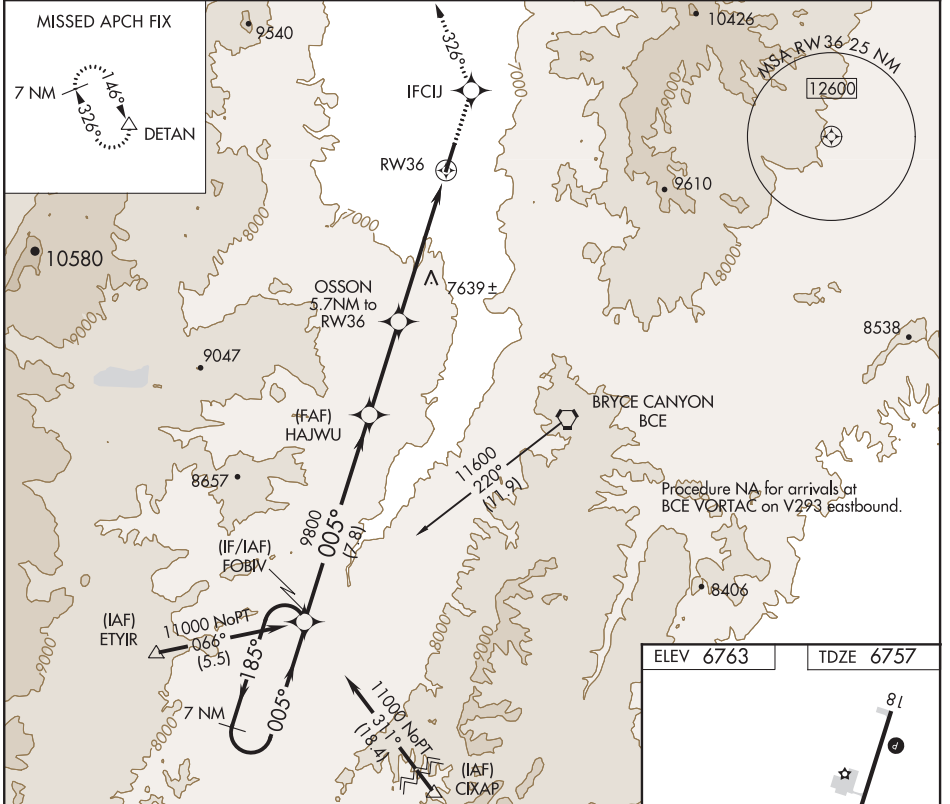
RNAV (GPS) RWY 36

PANGUITCH MUNI (U55)

⚠ 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.

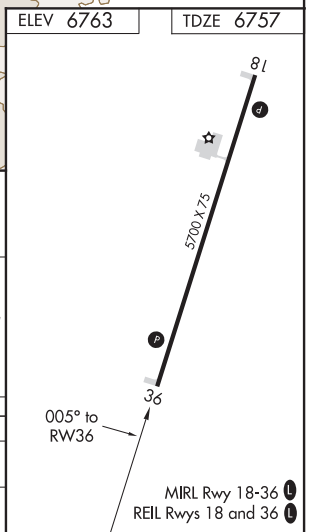
⚠ MISSED APPROACH: Climb to 12000 direct IFCUJ and on track 326° to DETAN and hold.

AWOS-3 133.125	SALT LAKE CENTER 133.6 269.25	CTAF 122.9 ⓪
--------------------------	---	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 40).

7 NM Holding Pattern	FOBIV	HAJWU	OSSON 5.7 NM to RW36	IFCUJ 3.5 NM to RW36	DETAN
11000	9800	8640	3260		
185°	005°	005°	3.06° TCH 40	326°	
7.8 NM	3.5 NM	2.2 NM	3.5 NM		

CATEGORY	A	B	C	D
LNVA MDA	7900-1¼ 1143 (1200-1¼)	7900-1½ 1143 (1200-1½)		NA
CIRCLING	7900-1¼ 1137 (1200-1¼)	7900-1½ 1137 (1200-1½)		NA

PANGUITCH, UTAH
Orig 02JUN11

37°51'N-112°24'W

RNAV (GPS) RWY 36

PANGUITCH MUNI (U55)

WAAS CH 72936 W01A	APP CRS 012°	Rwy Idg 6250 TDZE 456 Apt Elev 458
--	------------------------	---

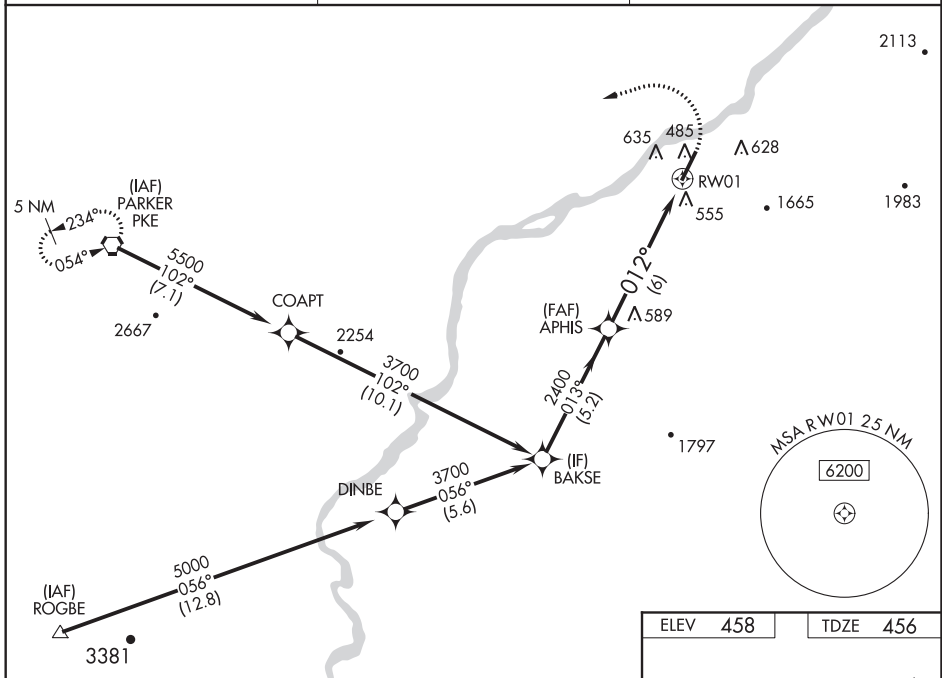
RNAV (GPS) RWY 1

AVI SUQUILLA (P2 \emptyset)

⚠ 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 3/8 mile, and LNAV Cat C visibility 1/4 mile.

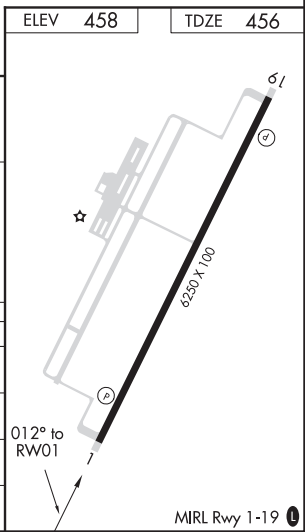
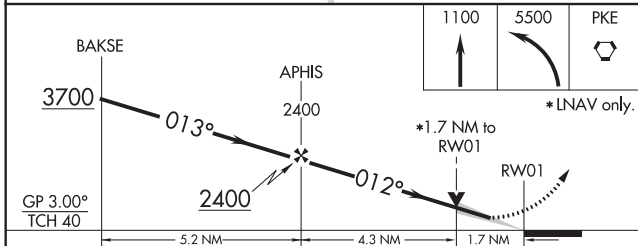
MISSED APPROACH: Climb to 1100 then climbing left turn to 5500 direct PKE VORTAC and hold, continue climb-in-hold to 5500.

AWOS-3PT 132.75	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.725 (CTAF) \emptyset
---------------------------	---	---



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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)	1020-1 5/8 564 (600-1 5/8)	NA
C CIRCLING	1060-1	602 (700-1)	1620-3 1162 (1200-3)	NA

PARKER, ARIZONA

AL-6633 (FAA)

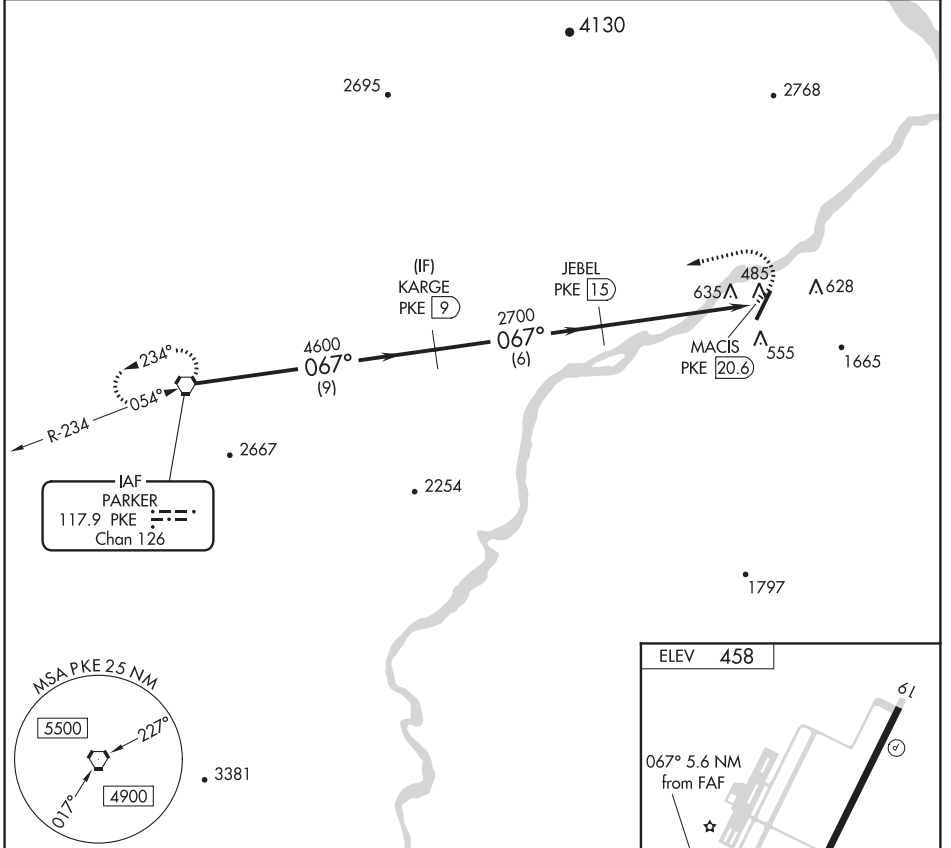
14261

VORTAC PKE 117.9 Chan 126	APP CRS 067°	Rwy Idg TDZE Apt Elev	N/A N/A 458
---	------------------------	-----------------------------	--

VOR/DME-A
AVI SUQUILLA (P2Ø)

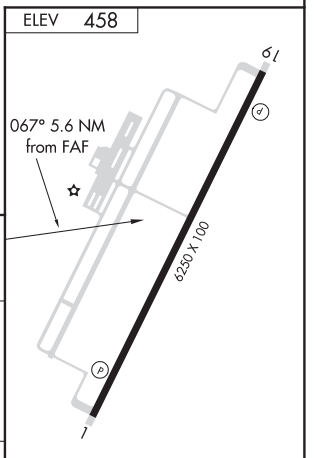
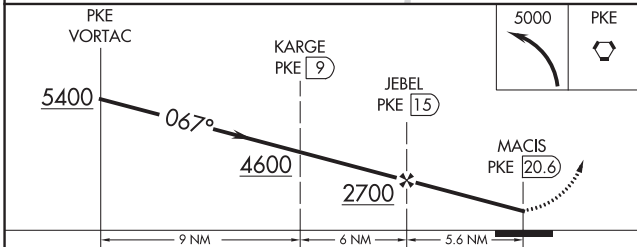
NA When local altimeter setting not received, use Blythe altimeter setting and increase all MDA 100 feet. MISSED APPROACH: Climbing left turn to 5000 direct PKE VORTAC and hold.

AWOS-3PT 132.75	LOS ANGELES CENTER 128.15 285.6	UNICOM 122.725 (CTAF) Ø
---------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
C CIRCLING	1900-1¼ 1442 (1500-1¼)	1900-1½ 1442 (1500-1½)	1900-3 1442 (1500-3)	NA

MIRL Rwy 1-19 **Ø**

PARKER, ARIZONA
Amdt 3 18SEP14

34°09'N-114°16'W

AVI SUQUILLA (P2Ø)
VOR/DME-A

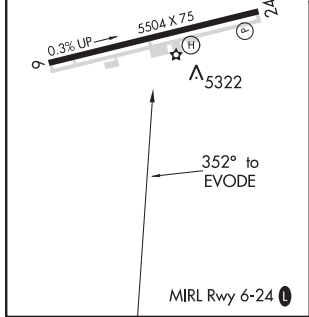
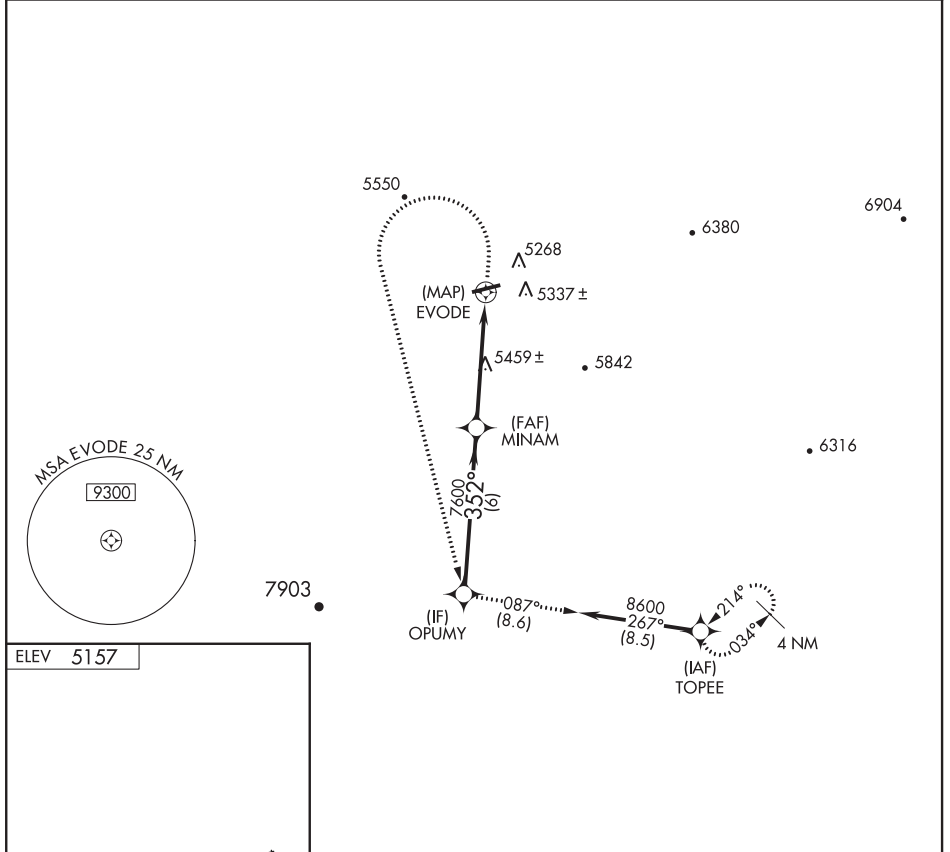
APP CRS 352°	Rwy Idg TDZE Apt Elev	N/A N/A 5157
------------------------	-----------------------------	---

RNAV (GPS)-A

PAYSON (PAN)

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-3 119.325	ALBUQUERQUE CENTER 127.675 306.2	UNICOM 122.8 (CTAF)
--------------------------	--	-------------------------------



OPUMY	6700	9000	OPUMY	tr 087°	TOPEE
8600	352°		MINAM	EVODE	
Procedure Turn NA	6 NM	4.9 NM			
CATEGORY	A	B	C	D	
CIRCLING	5720-1	563 (600-1)	5760-1 ¾ 603 (700-1¾)	5760-2 603 (700-2)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 72917 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	7298 1460 1478
--	------------------------	-----------------------------	---

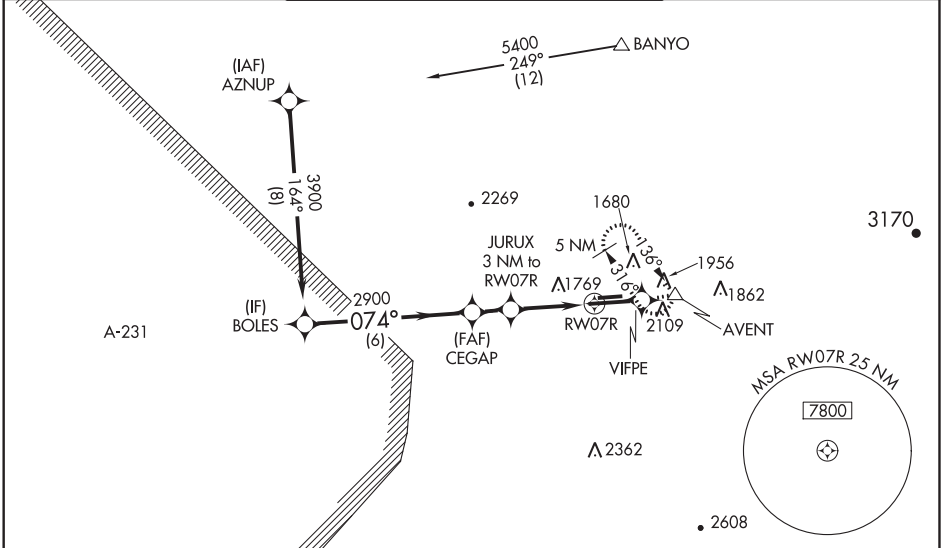
RNAV (GPS) RWY 7R

PHOENIX DEER VALLEY (DVT)

⚠ When VGSI inoperative, Circling Rwy 25R NA at night. Circling NA north of Rwy 7R-25L 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. When local altimeter setting not received, use Scottsdale altimeter setting and increase all DA 27 feet and all MDA 40 feet, and increase LNAV/VNAV all Cats, LNAV Cat C, and Circling Cats B and C visibility ¼ mile. VDP NA with Scottsdale altimeter setting.

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.

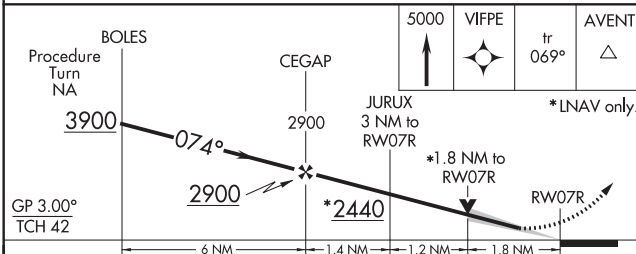
ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER * 118.4 (CTAF) (ARR 070°-250°) (DEP Rwy 7R-25L) 120.2 (ARR 251°-069°) (DEP Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
----------------------	---------------------------------------	--	-------------------------	--------------------------



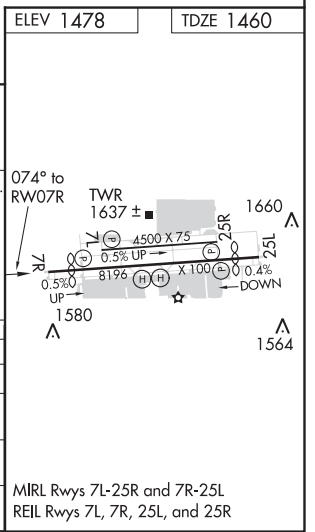
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1478	TDZE 1460
-----------	-----------



CATEGORY	A	B	C	D
LPV DA		1779-1¼	319 (400-1¼)	
LNAV/VNAV DA		2106-2¼	646 (700-2¼)	
LNAV MDA	2060-1	600 (600-1)	2060-1½	2060-1¾
		600 (600-1½)	600 (600-1½)	600 (600-1¾)
CIRCLING	2400-1¼	2420-1¼	2420-2¾	2460-3
	922 (1000-1¼)	942 (1000-1¼)	942 (1000-2¾)	982 (1000-3)



MIRL Rwy 7L-25R and 7R-25L
REIL Rwy 7L, 7R, 25L, and 25R

WAAS CH 90117 W25A	APP CRS 254°	Rwy Idg TDZE Apt Elev	7281 1475 1478
--	------------------------	-----------------------------	---

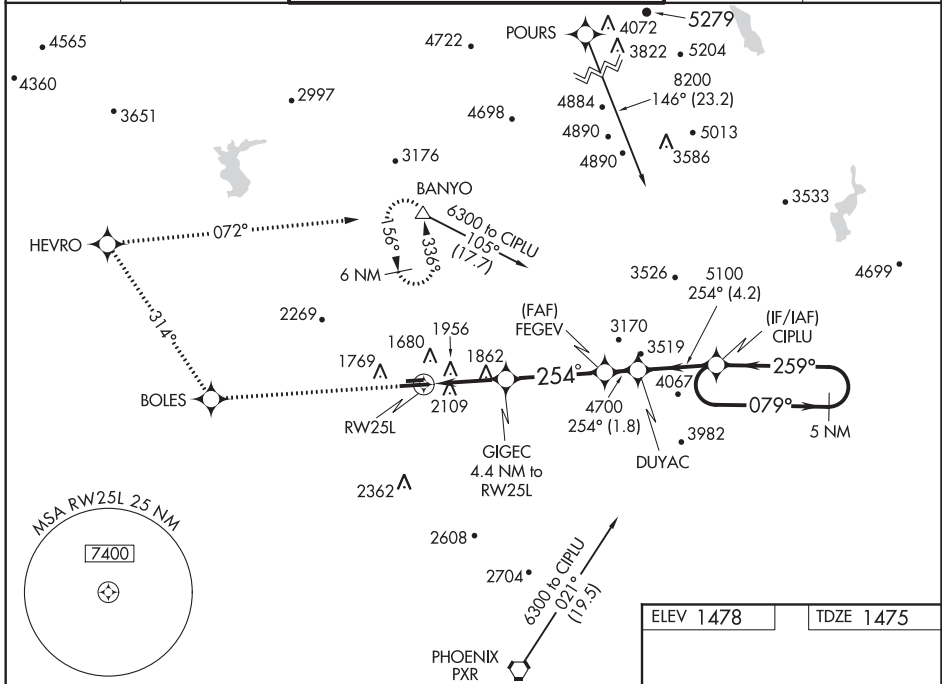
RNAV (GPS) RWY 25L

PHOENIX DEER VALLEY (DVT)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
▲ Circling NA north of Rwy 7R-25L at night. When VGS1 inoperative, Circling to Rwy 25R NA at night. If local altimeter setting not received, use Phoenix Sky Harbor Intl 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.

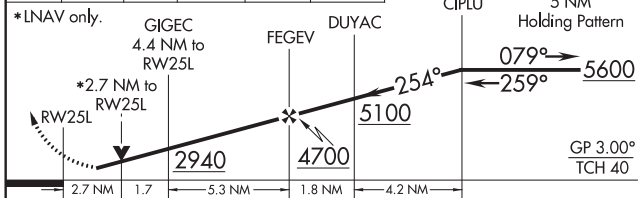
ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER * 118.4 (CTAF) (ARR 070°-250°) (DEP Rwy 7R-25L) 120.2 (ARR 251°-069°) (DEP Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
----------------------	---------------------------------------	--	-------------------------	--------------------------



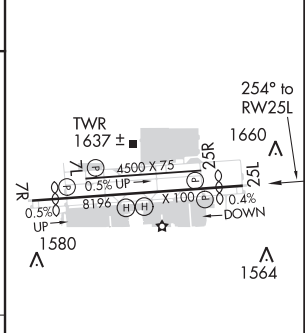
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

6000	BOLES	314° tr	HEVRO	BANYO	VGS1 and RNAV glidepath not coincident (VGS1 Angle 3.00/TCH 38).
------	-------	---------	-------	-------	--



ELEV 1478	TDZE 1475
-----------	-----------



CATEGORY	A	B	C	D
LPV DA	1850-1¼		375 (400-1¼)	
LNVA MDA	2360-1¼	885 (900-1¼)	2360-2¾	885 (900-2¾)
CIRCLING	2400-1¼	2420-1¼	2420-2¾	2420-3
	922 (1000-1¼)	942 (1000-1¼)	942 (1000-2¾)	942 (1000-3)

MIRL Rwy 7L-25R and 7R-25L
 REIL Rwy 7L, 7R, 25L, and 25R

APP CRS 254°	Rwy Idg TDZE Apt Elev	N/A N/A 1478
------------------------	-----------------------------	---

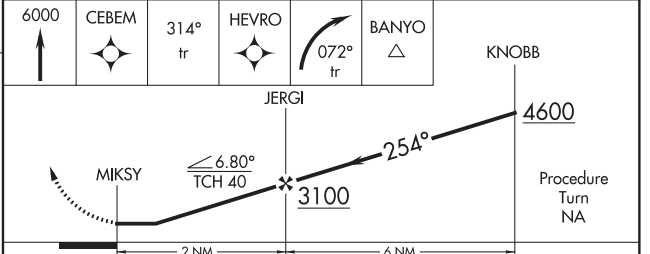
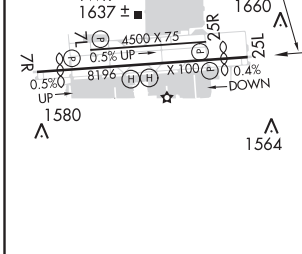
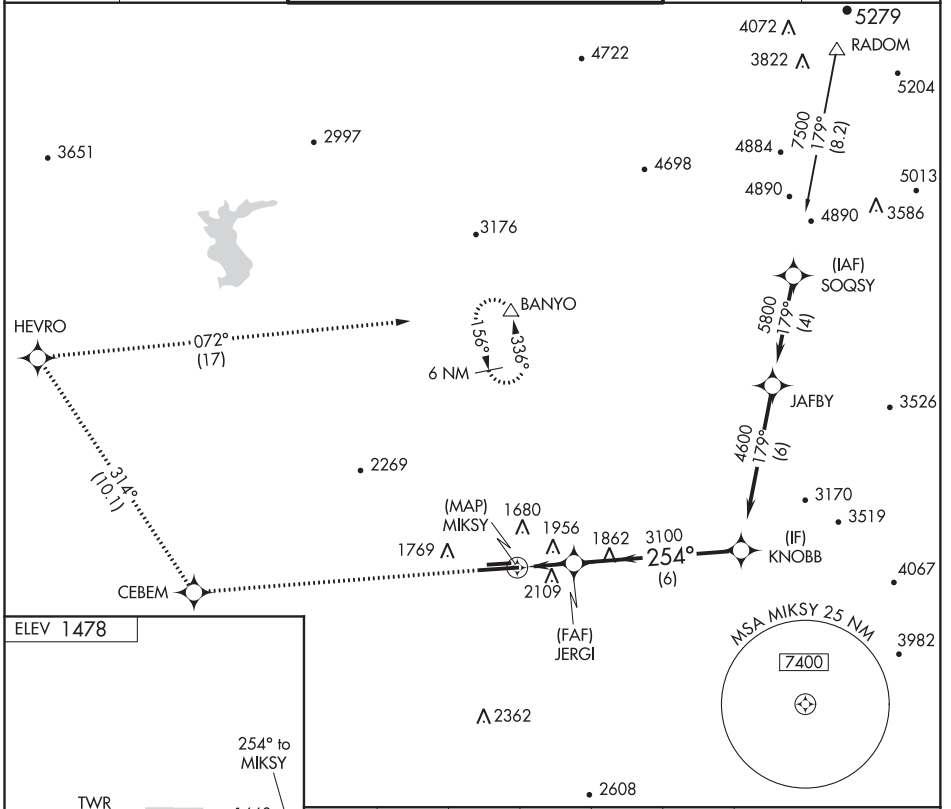
RNAV (GPS)-B

PHOENIX DEER VALLEY (DVT)

⚠ DME/DME RNP-0.3 NA. When VGSI inoperative, Circling to Rwy 25R NA at night. Circling not authorized at right 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 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER ★ 118.4 (CTAF) (ARR 070°-250°) (DEP Rwy 7R-25L) 120.2 (ARR 251°-069°) (DEP Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
----------------------	---------------------------------------	--	-------------------------	--------------------------



MIRL Rwy 7L-25R and 7R-25L REIL Rwy 7L, 7R, 25L, and 25R	CEBEM	HEVRO	BANYO	KNOBB
6000	314° tr	072° tr		
MIKSY	JERGI			
2 NM	6 NM			
CATEGORY	A	B	C	D
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 285°	Rwy Idg TDZE Apt Elev	N/A N/A 1478
------------------------	-----------------------------	---

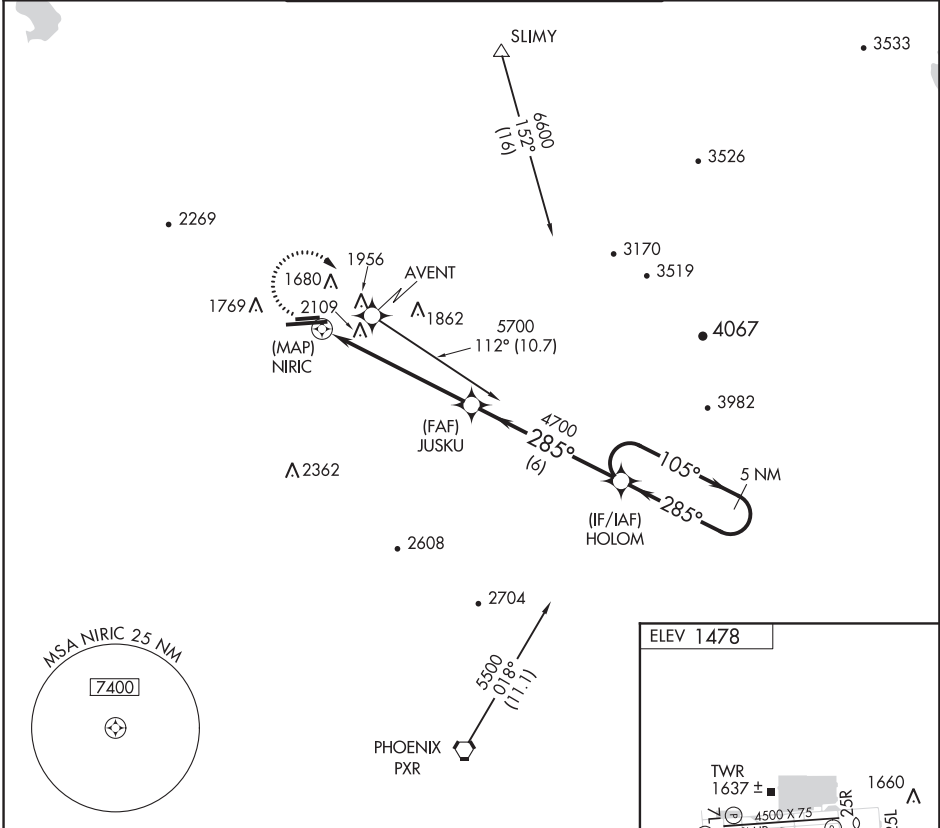
RNAV (GPS)-C

PHOENIX DEER VALLEY (DVT)

▼ DME/DME RNP-0.3 NA.
▲ Circling NA north of Rwy 7R-25L at night.
 When VGSI inoperative, Circling to Rwy 25R NA at night.

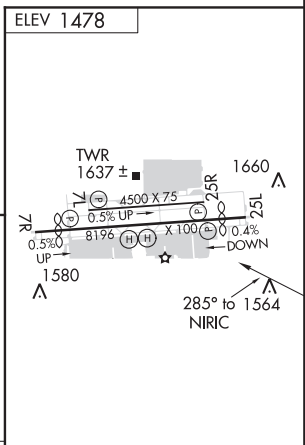
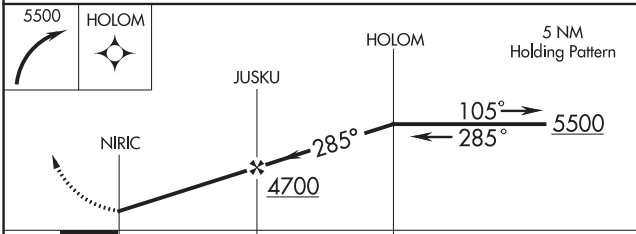
MISSED APPROACH: Climbing right turn to 5500 direct HOLOM and hold, continue climb-in-hold to 5500.

ATIS 126.5	PHOENIX APP CON 120.7 239.0	DEER VALLEY TOWER* 118.4 (CTAF) (ARR 070°-250°) (DEP Rwy 7R-25L) 120.2 (ARR 251°-069°) (DEP Rwy 7L-25R)	GND CON 121.8	CLNC DEL 123.9
----------------------	---------------------------------------	---	-------------------------	--------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	2400-1¼ 922 (1000-1¼)	2420-1¼ 942 (1000-1¼)	2420-2¾ 942 (1000-2¾)	2480-3 1002 (1100-3)

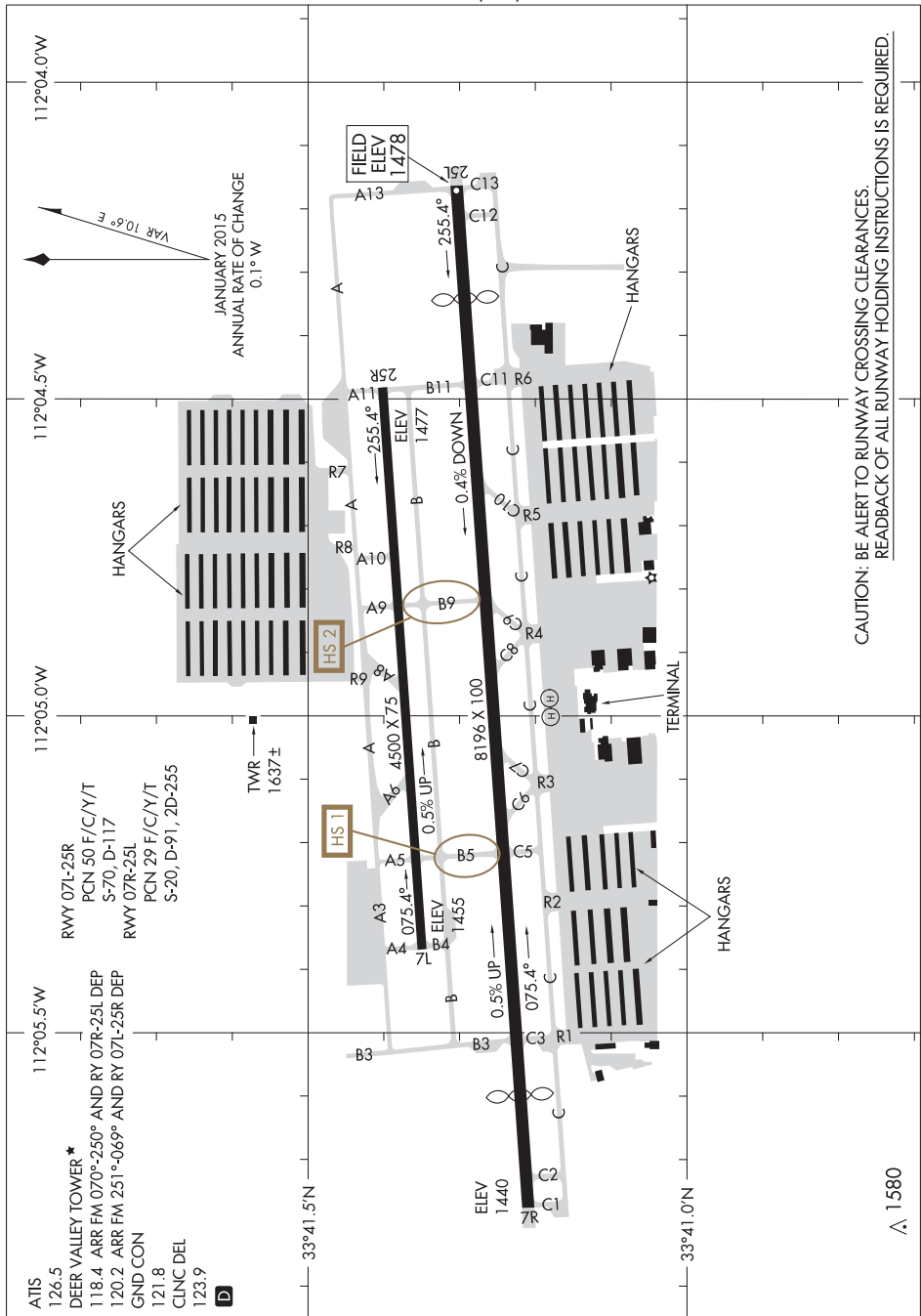
MIRL Rwy 7L-25R and 7R-25L
 REIL Rwy 7L, 7R, 25L, and 25R

AIRPORT DIAGRAM

AL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



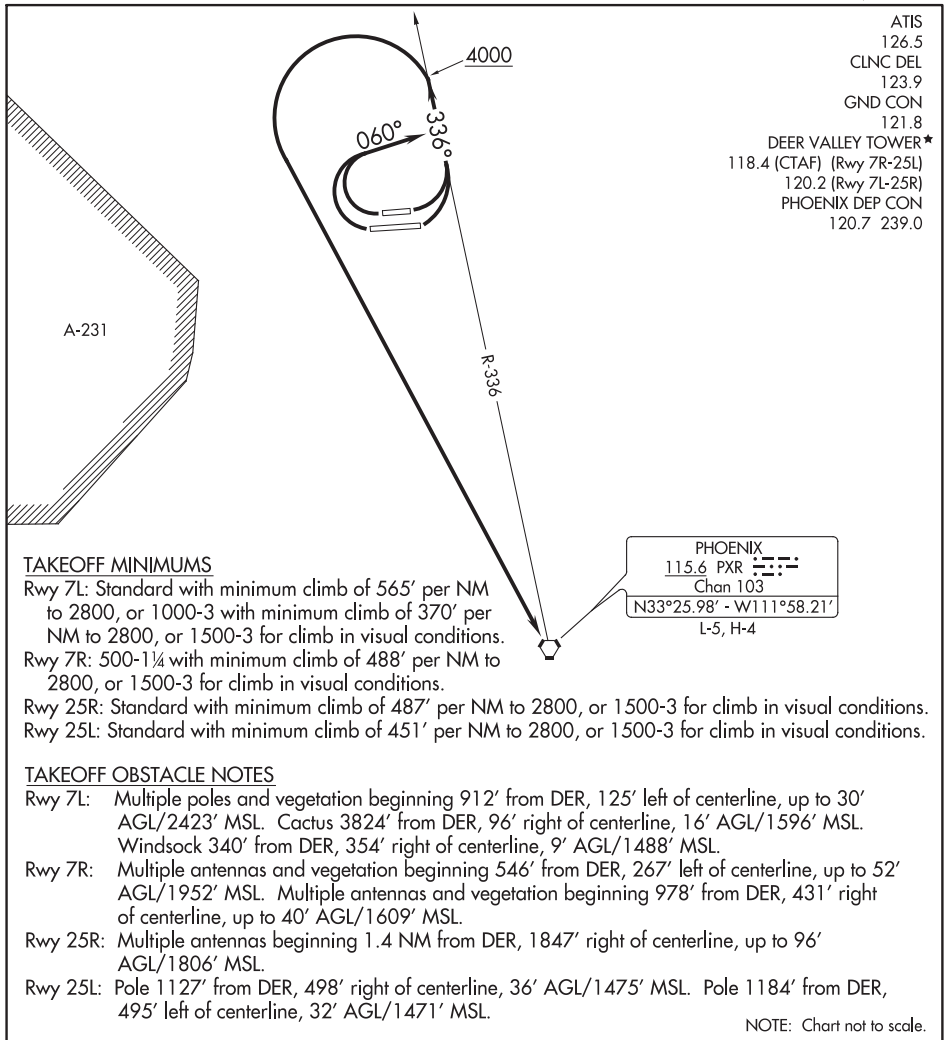
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

SW-4, 10 NOV 2016 to 05 JAN 2017

1580

AIRPORT DIAGRAM

PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

(BNYRD5.BNYRD) 16315

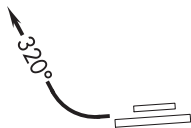
BNYRD FIVE DEPARTURE (RNAV)

SL-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 (Rwy 7R-25L)
- 120.2 (Rwy 7L-25R)
- PHOENIX DEP CON 120.7 239.0



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

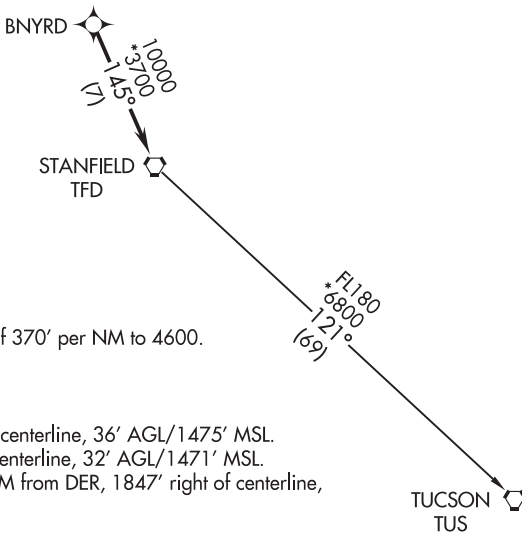
TAKEOFF MINIMUMS

- Rwys 7L/R: NA - Obstacles.
- Rwys 25L/R: Standard with minimum climb of 370' per NM to 4600.

TAKEOFF OBSTACLE NOTES

- 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.
- Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)

SW-4, 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

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.
Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

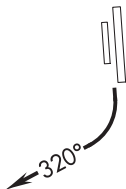
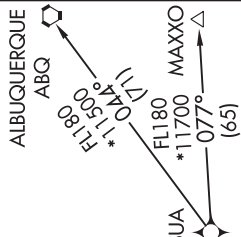
TAKEOFF MINIMUMS

Rwys 7L/R: NA-Obstacles.
Rwys 25L/R: Standard with minimum climb of 370' per NM to 4600.

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

N



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (FTHLS5.ABQ)

JNIPR TRANSITION (FTHLS5.JNIPR)

MAXXO TRANSITION (FTHLS5.MAXXO)

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: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.

NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

SW-4, 10 NOV 2016 to 05 JAN 2017

IZZ0 FIVE DEPARTURE (RNAV)

SL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

SW-4 10 NOV 2016 to 05 JAN 2017

TAKEOFF OBSTACLE NOTES

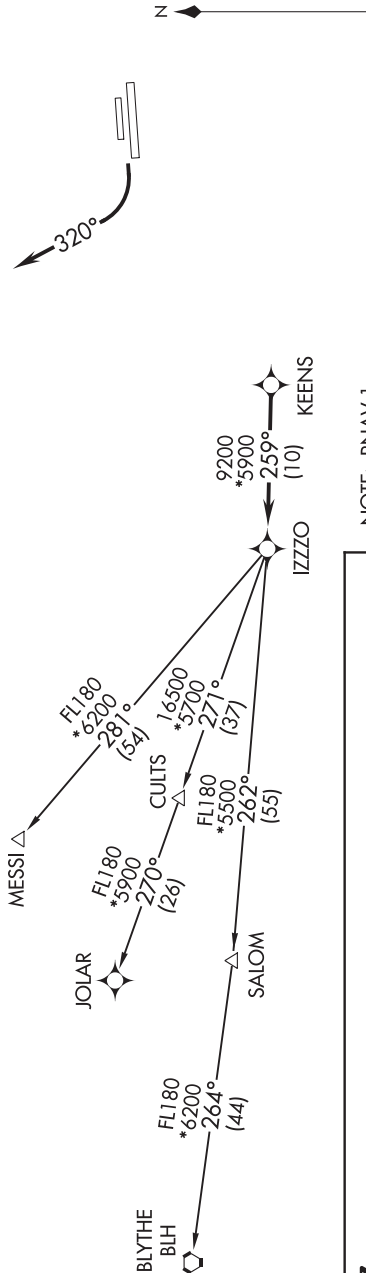
- Rwy 25L: Pole 1127' from DER, 498' right of centerline, 36' AGL/1475' MSL.
- Pole 1184' from DER, 495' left of centerline, 32' AGL/1471' MSL.
- Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

TAKEOFF MINIMUMS

- Rwys 7L/R: NA-obstacles.
- Rwys 25L/R: Standard with minimum climb of 370' per NM to 4600'.

- 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



DEPARTURE ROUTE DESCRIPTION

- TAKEOFF RUNWAYS 25L, 25R: Climbing right turn heading 320° or as assigned by ATC, thence: . . .
- . . . expect RADAR vectors to KEENS, then on track 259° to IZZO. Then on (transition), expect filed altitude 3 minutes after departure.
- BLYTHE TRANSITION (IZZ05.BLH)
- JOLAR TRANSITION (IZZ05.JOLAR)
- MESSI TRANSITION (IZZ05.MESSI)

- 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 JOLAR TRANSITION.
- NOTE: Aircraft departing KGEV and KGYR ATC assigned only.

NOTE: Chart not to scale.

IZZ0 FIVE DEPARTURE (RNAV)

(IZZ05.IZZ0) 10NOV16

PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ATIS

126.5

CINC 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.

TAKEOFF OBSTACLE NOTES

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.

Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

NOTE: RNAV 1.

NOTE: Turbojets and turboprops only.

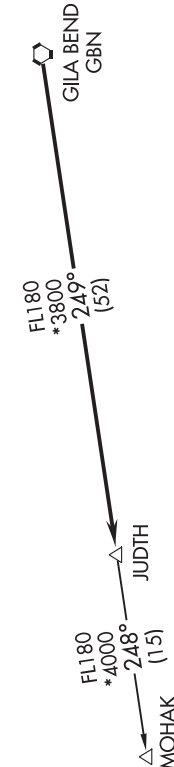
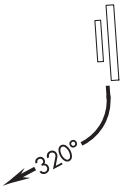
NOTE: RADAR required.

NOTE: GPS required.

NOTE: Aircraft departing KGEU and KGYR

NOTE: ATC assigned only.

**TOP ALTITUDE:
ASSIGNED BY ATC**



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5..MOHAK)

SW-4, 10 NOV 2016 to 05 JAN 2017

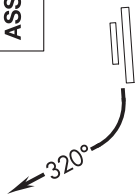
KATMN FIVE DEPARTURE (RNAV)

SL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: ASSIGNED BY ATC



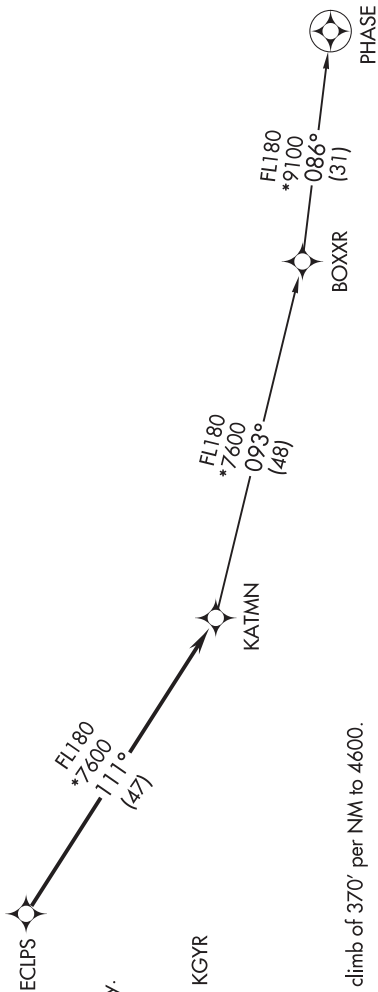
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . . expect RADAR vectors to ECLIPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.PHASE)

- 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.

TAKEOFF OBSTACLE NOTES

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.
Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

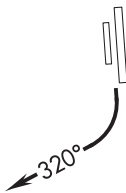
NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

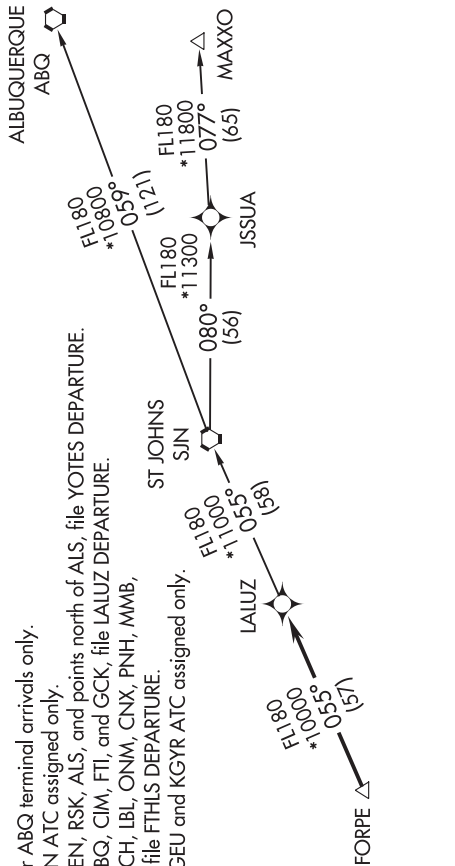
7 NOV 2016 10:01:16:16:01: 4-SW

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: 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, TTC, IRW and TXO, file FTHLS DEPARTURE.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



**TOP ALTITUDE:
ASSIGNED BY ATC**



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SJN)



TAKEOFF MINIMUMS

Rwys 7L/R: NA-obstacles.
Rwys 25L/R: Standard with minimum climb of 370' per NM to 4600.

TAKEOFF OBSTACLE NOTES

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.
Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

NOTE: Chart not to scale.

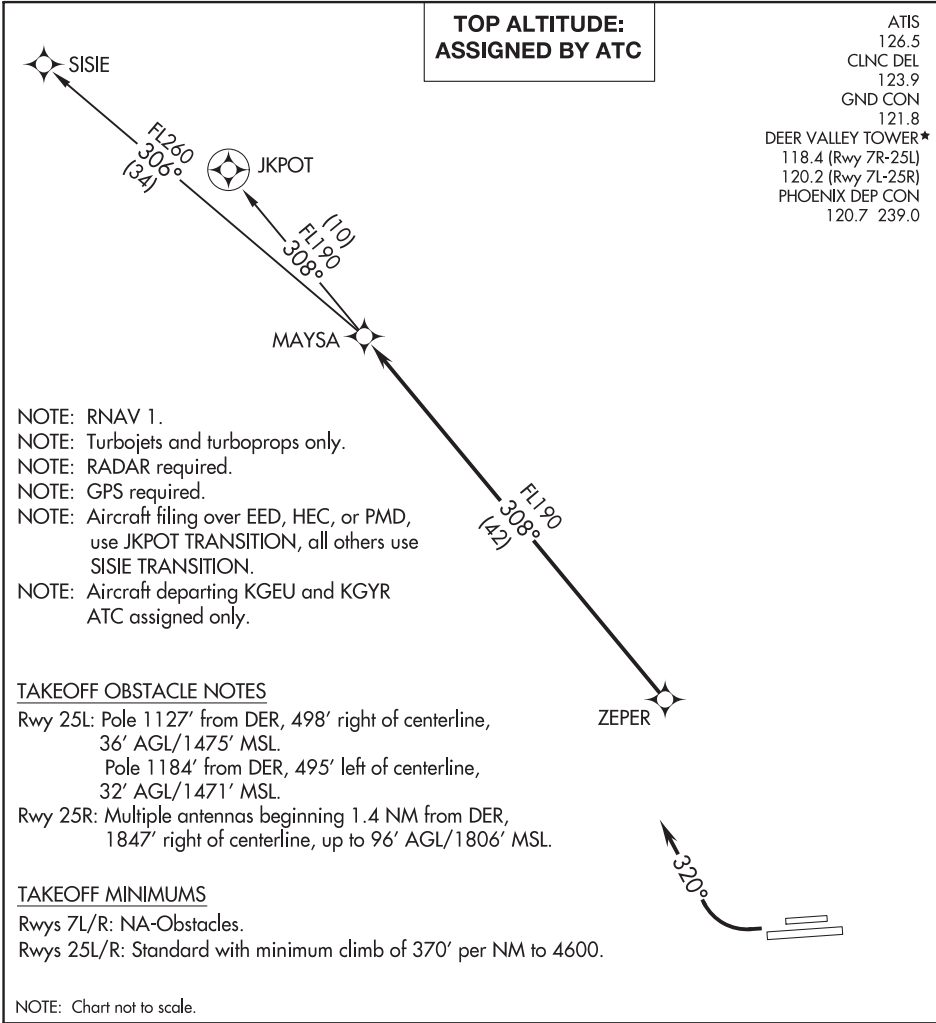
SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

MAYSA FIVE DEPARTURE (RNAV)

SL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: Climbing right turn heading 320° or as assigned by ATC, thence. . . .

. . . .expect RADAR vectors to ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

MAYSA FIVE DEPARTURE (RNAV)

(MAYSA5.MAYSA) 10NOV16

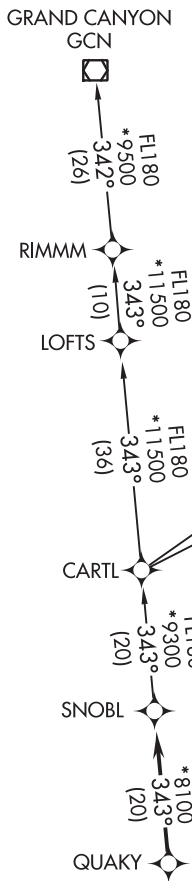
PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)

**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

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: 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 OBSTACLE NOTES

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.
Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL5.CARTL)

GRAND CANYON TRANSITION (SNOBL5.GCN)

JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

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 (Rwy 7R-25L)
 120.2 (Rwy 7L-25R)
 PHOENIX DEP CON
 120.7 239.0

 GRAND CANYON
 GCN

YOOPR 

JARPA 

FL180
 *14900
 016°
 (19)

FL180
 *2400
 016°
 (70)

FL180
 *9500
 033°
 (92)

FL180
 *10300
 021°
 (44)

YOTES 

**TOP ALTITUDE:
ASSIGNED BY ATC**

- 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.

TAKEOFF OBSTACLE NOTES

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.

Rwy 25R: Multiple antennas beginning 1.4 NM from DER, 1847' right of centerline, up to 96' AGL/1806' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 25L, 25R: 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), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

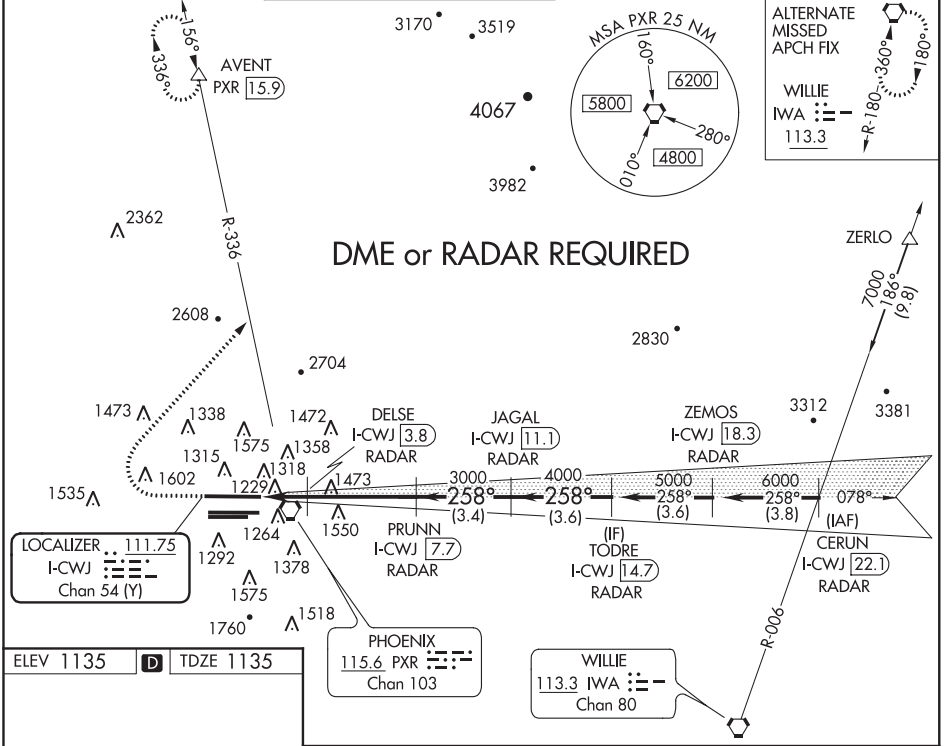
LOC/DME I-CWJ 111.75 Chan 54 (Y)	APP CRS 258°	Rwy Idg 11489 TDZE 1135 Apt Elev 1135
---	------------------------	--

ILS or LOC RWY 26

PHOENIX SKY HARBOR INTL (PHX)

Simultaneous approach authorized with Rwy 25L/R. DME required. 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.

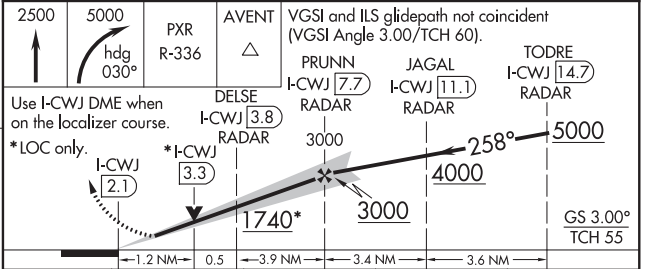
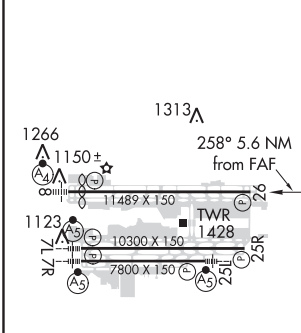
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1135	D	TDZE 1135
-----------	----------	-----------



CATEGORY	A	B	C	D
S-ILS 26	1386-3/4 251 (300-3/4)			
S-LOC 26	1580-1 445 (500-1)	1580-1 1/4 445 (500-1 1/4)	1580-1 1/2 445 (500-1 1/2)	
C CIRCLING	1740-1 605 (700-1)	1920-2 1/4 785 (800-2 1/4)	2220-3 1085 (1100-3)	

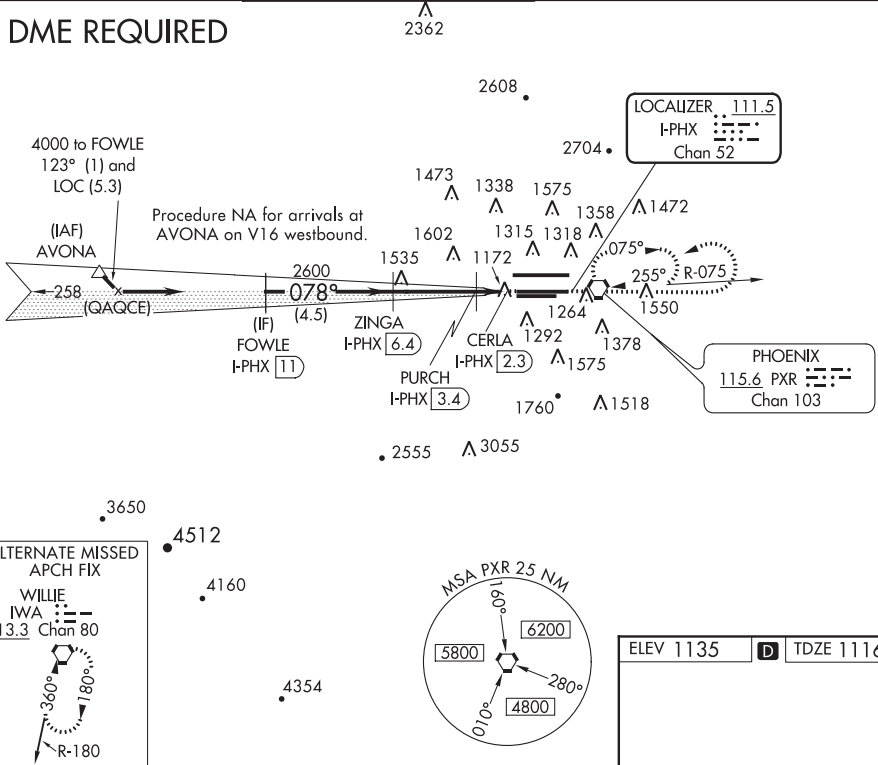
LOC/DME I-PHX	APP CRS	Rwy Idg	10300
111.5	078°	TDZE	1116
Chan 52		Apt Elev	1135

ILS or LOC/DME RWY 7L

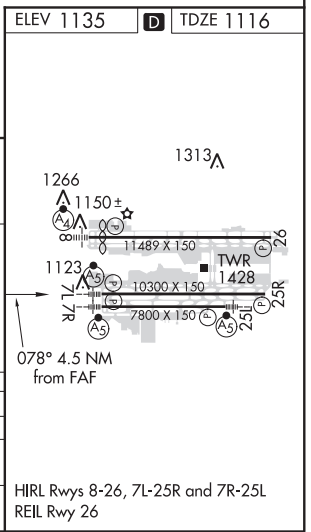
PHOENIX SKY HARBOR INTL (PHX)

<p>For inoperative MALSRS, increase S-LOC 7L C, D visibility to RVR 5000.</p>	<p>MALSRS</p>	<p>MISSED APPROACH: Climb to 5000 then left turn direct PXR VORTAC and hold.</p>	
		<p>PHOENIX TOWER</p> <p>118.7 278.8 (Rwy 8-26)</p> <p>120.9 254.3 (Rwy 7L-25R, 7R-25L)</p>	<p>GND CON</p> <p>119.75 269.2 (N)</p> <p>132.55 269.2 (S)</p>
<p>ATIS</p> <p>127.575</p>	<p>PHOENIX APP CON</p> <p>128.65 353.8</p>		

DME REQUIRED



<p>VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).</p>				<p>5000</p>	<p>PXR</p>
<p>FOWLE I-PHX (11)</p> <p>4000</p>		<p>ZINGA I-PHX (6.4)</p> <p>2600</p>		<p>PURCH I-PHX (3.4)</p> <p>*LOC only</p>	
<p>GS 3.00° TCH 57</p>		<p>2600</p> <p>*1620</p>		<p>CERLA I-PHX (2.3)</p>	
<p>4.5 NM</p>		<p>3 NM</p>		<p>1.1 NM</p>	
<p>0.4 NM</p>					
CATEGORY	A	B	C	D	
S-ILS 7L	1326/24		210 (200-½)		
S-LOC 7L	1460/24	344 (400-½)	1460/30	344 (400-5/6)	
CIRCLING	1740-1	605 (700-1)	1740-1¾ 605 (700-1¾)	1920-2½ 785 (800-2½)	



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017


APP CRS	Rwy Idg	10300
078°	TDZE	1116
	Apt Elev	1135

RNAV (RNP) Z RWY 7L

PHOENIX SKY HARBOR INTL (PHX)

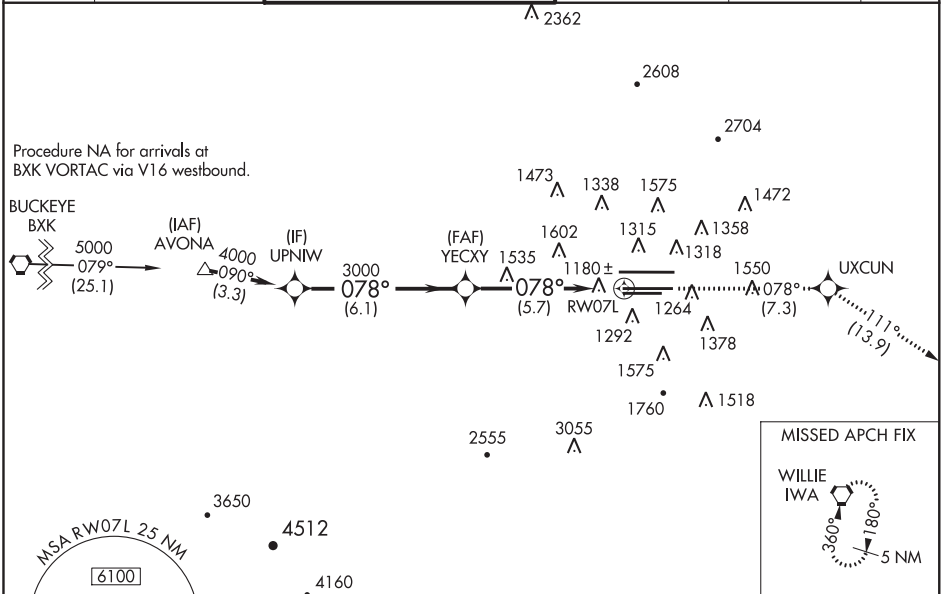
▼ GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). For inoperative MALS, increase RNP 0.30 all Cats visibility to 1½ mile. Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MALS



MISSED APPROACH: Climb to 5000 via track 078° to UXCUN and via track 111° to IWA VORTAC and hold.

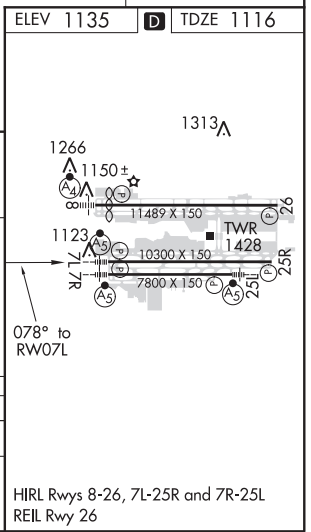
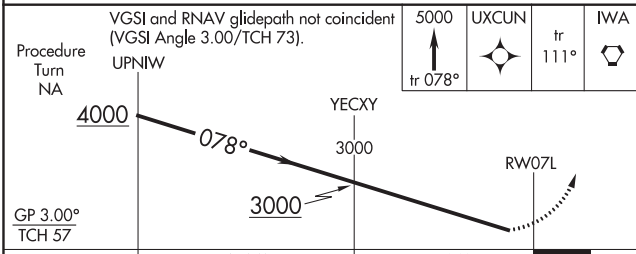
ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.8	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1135	TDZE 1116
-----------	-----------




CATEGORY	A	B	C	D
RNP 0.30 DA		1523/50	407 (400-1)	
AUTHORIZATION REQUIRED				

APP CRS	Rwy Idg	7800
078°	TDZE	1116
	Apt Elev	1135

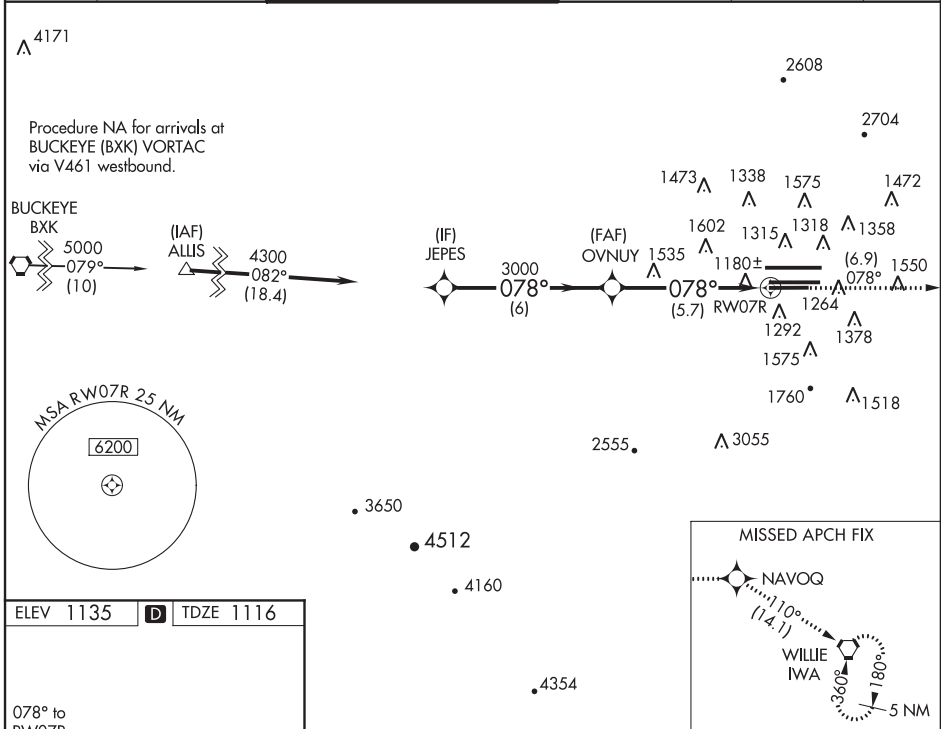
RNAV (RNP) Z RWY 7R

PHOENIX SKY HARBOR INTL (PHX)

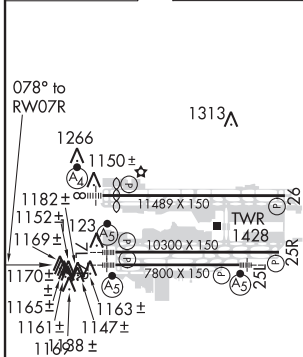
▼ GPS required. For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F). For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1½. Simultaneous approach authorized with ILS or LOC Rwy 8. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MALSR

MISSED APPROACH: Climb to 5000 via track 078° to NAVOQ and via track 110° to IWA VORTAC and hold.

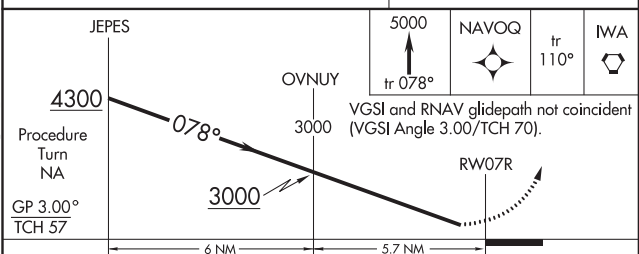
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------



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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	10591
078°	TDZE	1118
	Apt Elev	1135

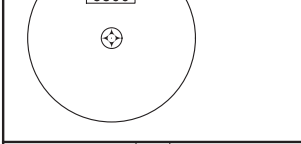
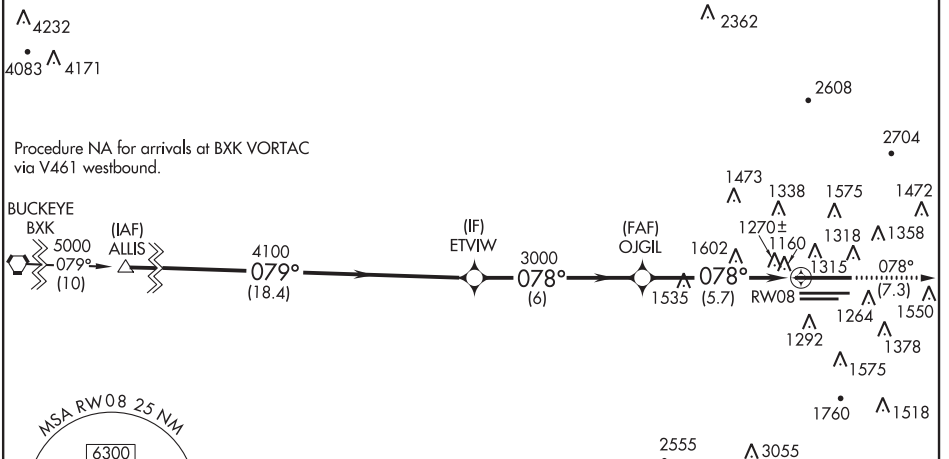
RNAV (RNP) Z RWY 8

PHOENIX SKY HARBOR INTL (PHX)

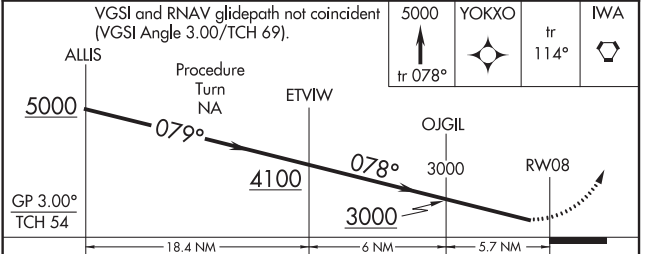
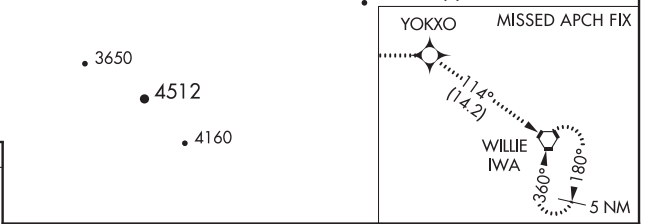
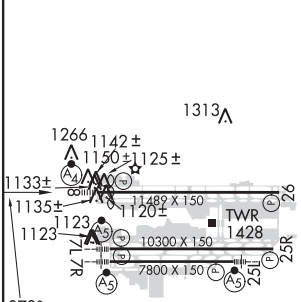
GPS required. Visibility reduction by helicopters NA.
 For uncompensated Baro-VNAV systems, procedure NA below 1°C (34°F) or above 46°C (116°F).
 For inoperative MALSF, increase RNP 0.13 all Cats visibility to 1¼, and RNP 0.30 all Cats visibility to 1¾.

MALSF
 MISSED APPROACH: Climb to 5000 via track 078° to YOKXO and via track 114° to IWA VORTAC and hold.

ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.8	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
------	-------------	----------	------	-------------



CATEGORY	A	B	C	D
RNP 0.13 DA		1478-1	360 (400-1)	
RNP 0.30 DA		1603-1½	485 (500-1½)	

AUTHORIZATION REQUIRED

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 258°	Rwy Idg 7800
	TDZE 1126
	Apt Elev 1135

RNAV (RNP) Z RWY 25L

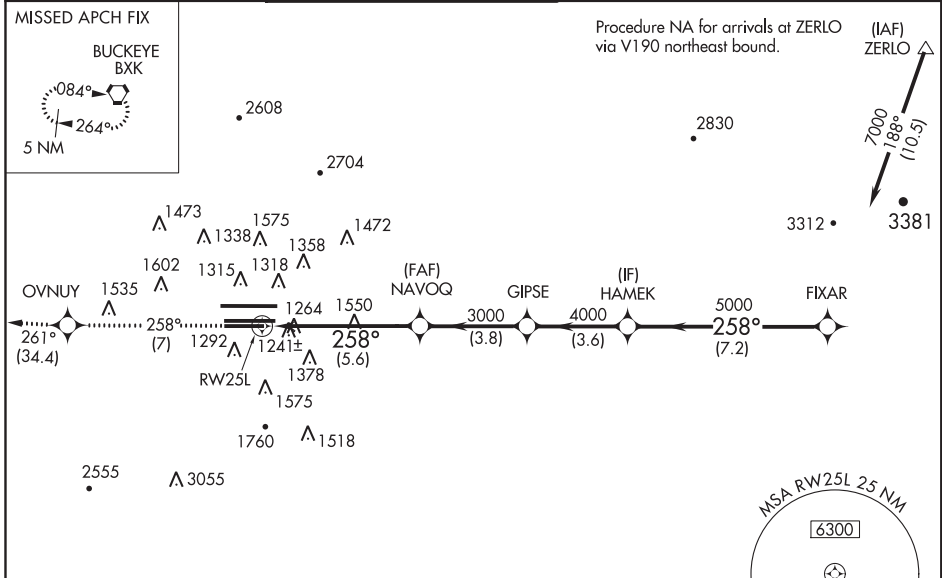
PHOENIX SKY HARBOR INTL (PHX)

▼ For inoperative MALSR, increase RNP 0.11 all Cats visibility to 1¾, RNP 0.30 all Cats visibility 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.



MISSED APPROACH: Climb to 5000 via track 258° to OVNUY and via track 261° to BKK VORTAC and hold.

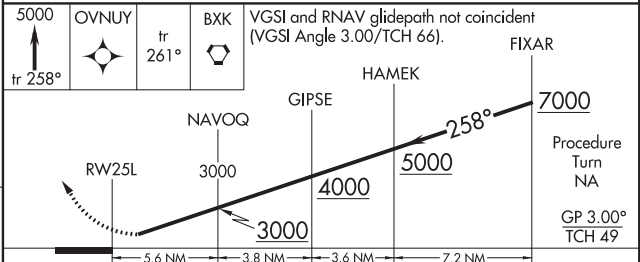
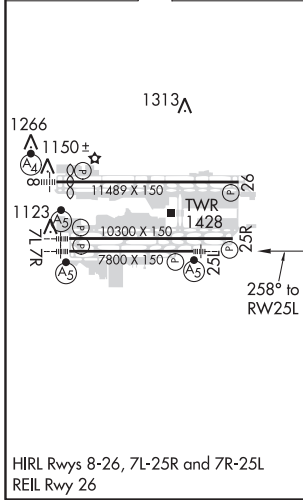
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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)	

AUTHORIZATION REQUIRED

PHOENIX, ARIZONA

AL-322 (FAA)

16259

RNAV (RNP) Z RWY 25R

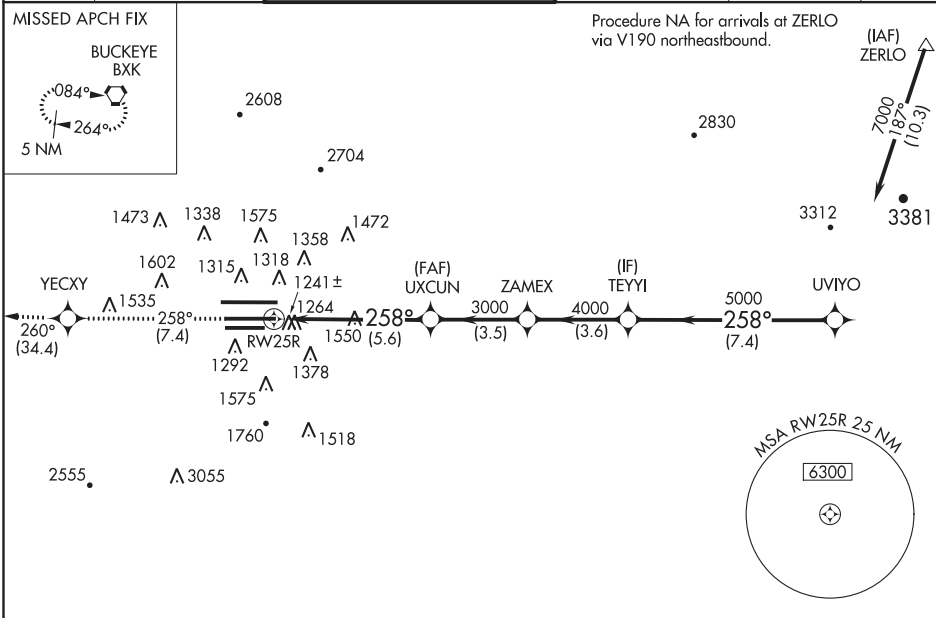
PHOENIX SKY HARBOR INTL (PHX)

APP CRS	Rwy Idg	10300
258°	TDZE	1134
	Apt Elev	1135

⚠ 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.

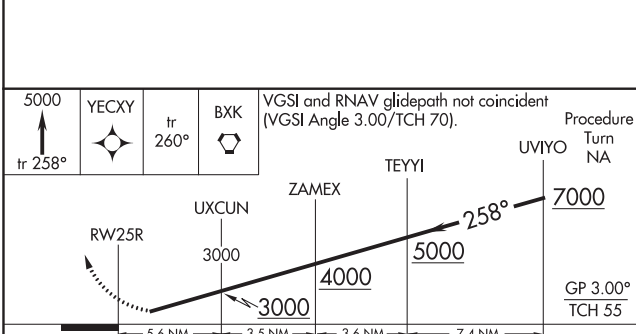
MISSED APPROACH: Climb to 5000 via track 258° to YECXY and via track 260° to BKK VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------

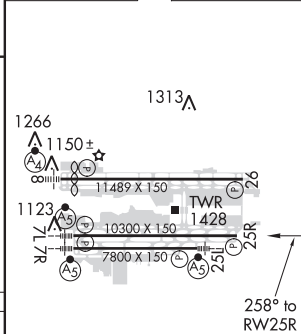


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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 Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

PHOENIX, ARIZONA
Orig-C 08MAR12

33°26'N-112°01'W

PHOENIX SKY HARBOR INTL (PHX) RNAV (RNP) Z RWY 25R

APP CRS	Rwy Idg	11489
258°	TDZE	1135
	Apt Elev	1135

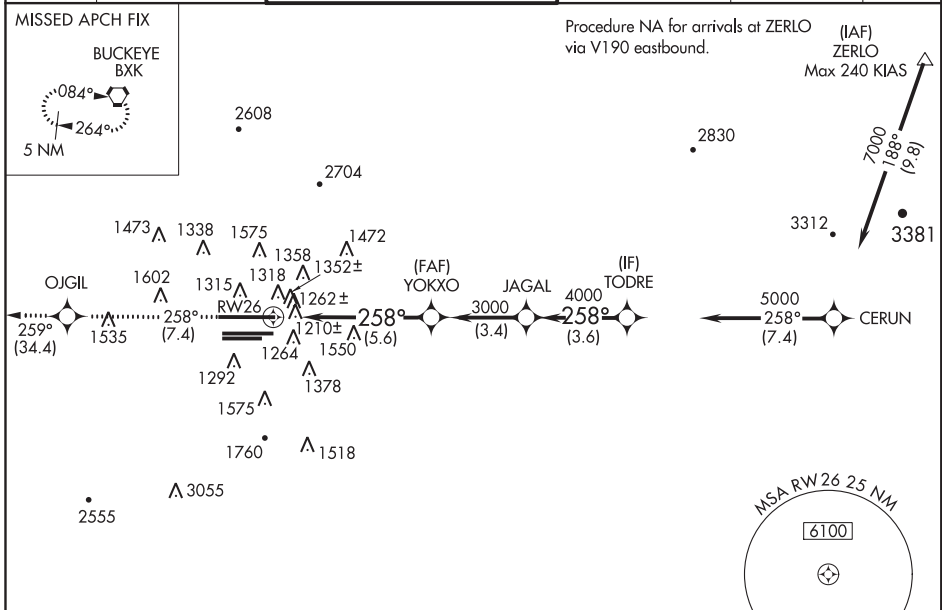
RNAV (RNP) Z RWY 26

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 simultaneous operations.

MISSED APPROACH: Climb to 5000 via track 258° to OJGIL and via track 259° to BXK VORTAC and hold.

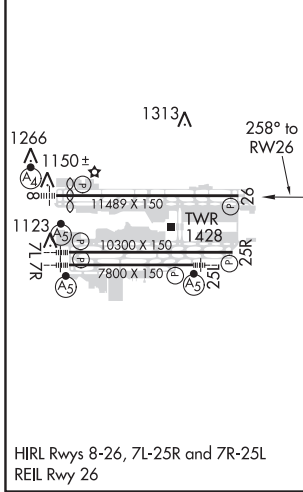
ATIS	PHOENIX APP CON	PHOENIX TOWER	GND CON	CLNC DEL	CPDLC
127.575	128.65 353.8	118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	119.75 269.2 (N) 132.55 269.2 (S)	118.1 269.2	



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1135	D	TDZE 1135
-----------	----------	-----------



5000	OJGIL	tr 259°	BXK	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 60).	Procedure Turn NA
5000	JAGAL	TODRE	5000		
	3000	4000	5000		
	5.6 NM	3.4 NM	3.6 NM		
				GP 3.00°	TCH 54

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 Idg 10300 TDZE 1116 Apt Elev 1135
--	------------------------	--

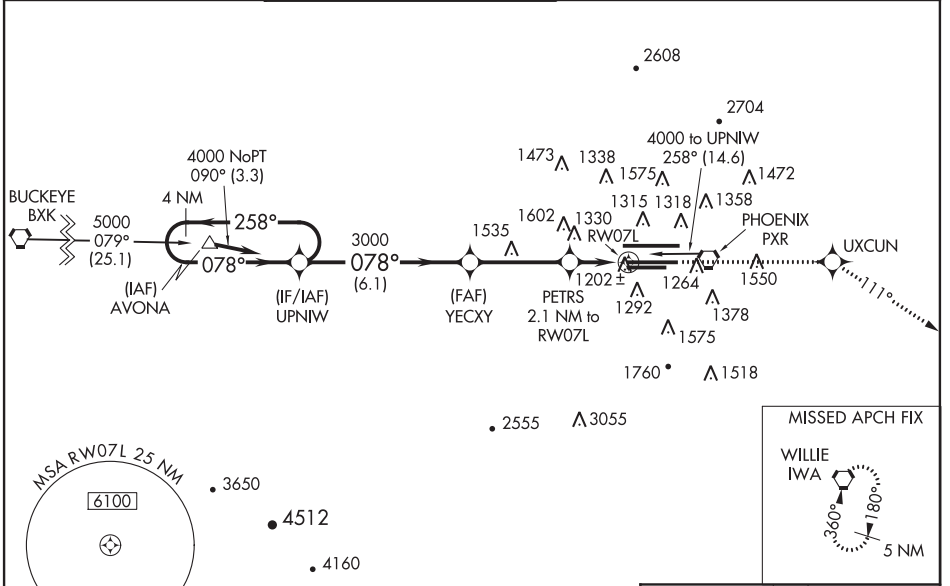
RNAV (GPS) Y RWY 7L

PHOENIX SKY HARBOR INTL (PHX)

⚠ For inoperative MALS, increase LPV all Cats visibility to RVR 5000. 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.

MALS
 MISSED APPROACH: Climb to 5000 direct UXCUN and via 111° track to IWA VORTAC and hold.

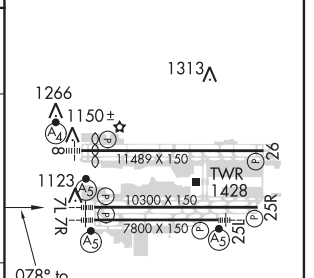
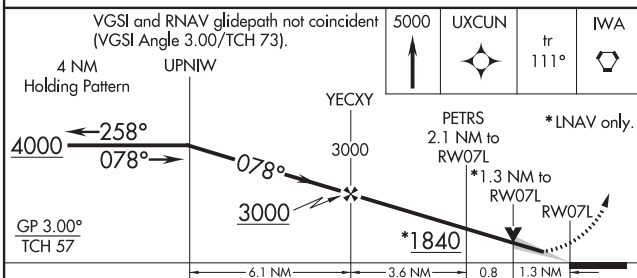
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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)
CIRCLING	1740-1	605 (700-1)	1740-1¾ 605 (700-1¾)	1920-2½ 785 (800-2½)

HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

WAAS CH 73011 W07B	APP CRS 078°	Rwy Idg TDZE 1116 Apt Elev 1135
--	------------------------	---

RNAV (GPS) Y RWY 7R

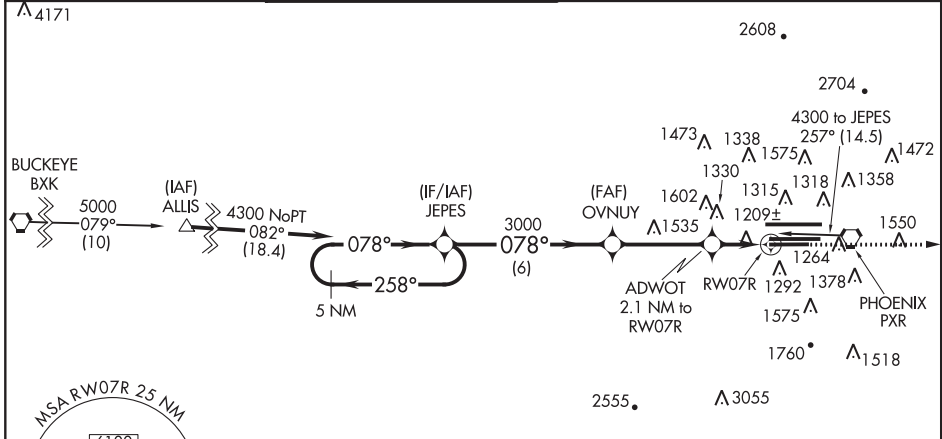
PHOENIX SKY HARBOR INTL (PHX)

⚠ For inoperative MALSR, increase LNAV Cat A/B visibility to 1 mile. 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. Visibility reduction by helicopters 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.



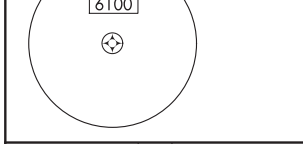
MISSED APPROACH: Climb to 5000 direct NAVOQ and via 110° track to IWA VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------

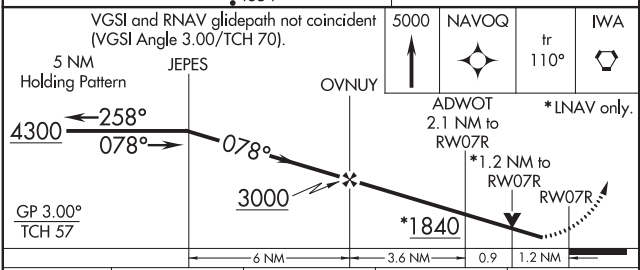
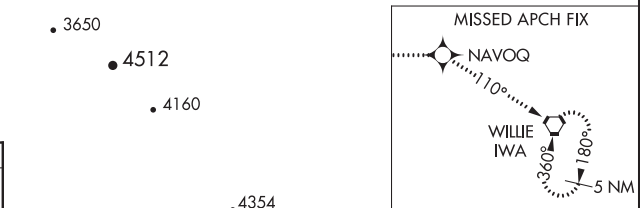
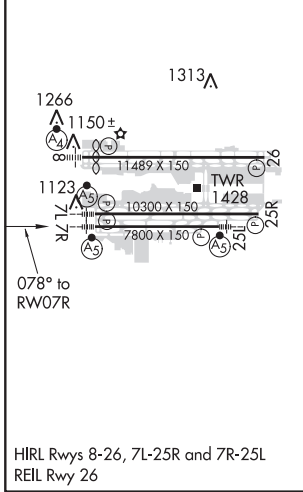


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 1135	D	TDZE 1116
-----------	----------	-----------



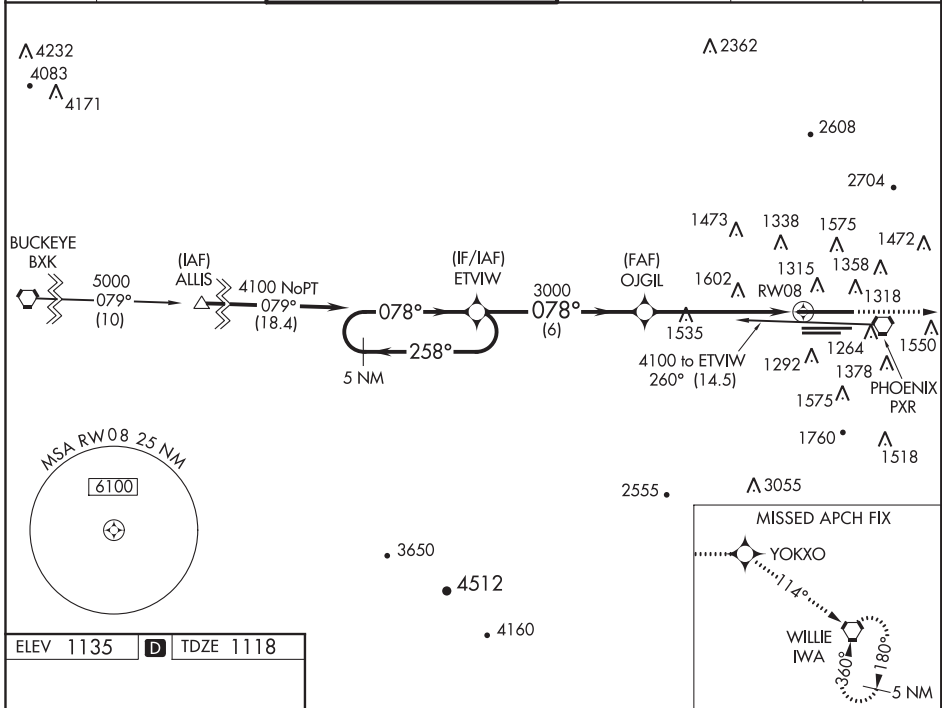
CATEGORY	A	B	C	D
LPV DA		1390-3/4	274 (300-3/4)	
LNAV/VNAV DA		1520-1	404 (400-1)	
LNAV MDA	1580-3/4	464 (500-3/4)		1580-1 464 (500-1)
CIRCLING	1740-1	605 (700-1)	1740-1 3/4 605 (700-1 3/4)	1920-2 1/2 785 (800-2 1/2)

WAAS CH 86611 W08A	APP CRS 078°	Rwy Idg 10591 TDZE 1118 Apt Elev 1135
--	------------------------	--

RNAV (GPS) Y RWY 8

PHOENIX SKY HARBOR INTL (PHX)

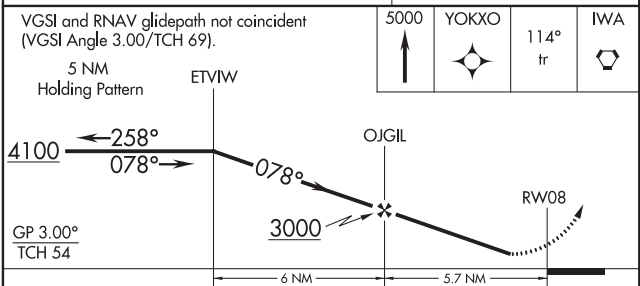
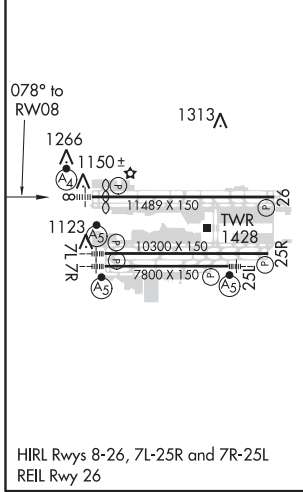
Inoperative table does not apply. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MALSF		MISSED APPROACH: Climb to 5000 direct YOKXO and via 114° track to IWA VORTAC and hold.		
	ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1135	D	TDZE 1118
-----------	----------	-----------



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)
CIRCLING	1860-1 725 (800-1)	1860-1¼ 725 (800-1¼)	1860-2¼ 725 (800-2¼)	1920-2½ 785 (800-2½)

PHOENIX, ARIZONA

AL-322 (FAA)

16259

WAAS CH 40022 W25A	APP CRS 258°	Rwy Idg 10300 TDZE 1134 Apt Elev 1135
--	------------------------	--

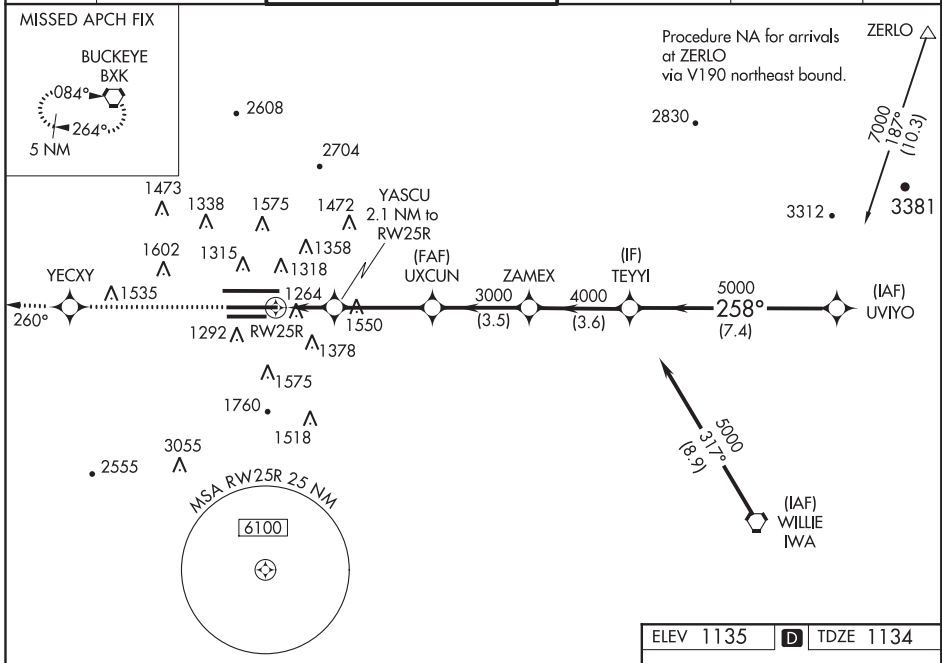
RNAV (GPS) Y RWY 25R

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.

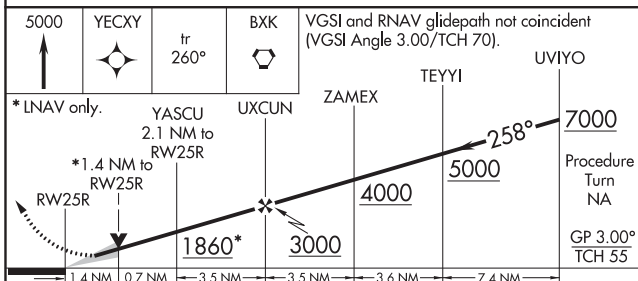
⚠ MISSED APPROACH: Climb to 5000 direct YECXY and via 260° track to BXX VORTAC and hold.

ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------

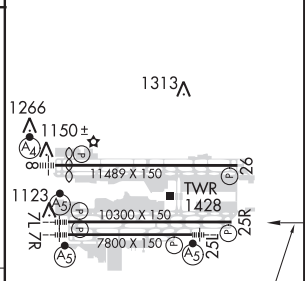


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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)
CIRCLING	1740-1	605 (700-1)	1740-1¾ 605 (700-1¾)	1920-2½ 785 (800-2½)

HIRL Rwy 8-26, 7L-25R and 7R-25L
REIL Rwy 26

PHOENIX, ARIZONA
Amdt 2B 08MAR12

33°26'N-112°01'W

PHOENIX SKY HARBOR INTL (PHX) RNAV (GPS) Y RWY 25R

WAAS CH 70321 W26A	APP CRS 258°	Rwy Idg 11489 TDZE 1135 Apt Elev 1135
--	------------------------	--

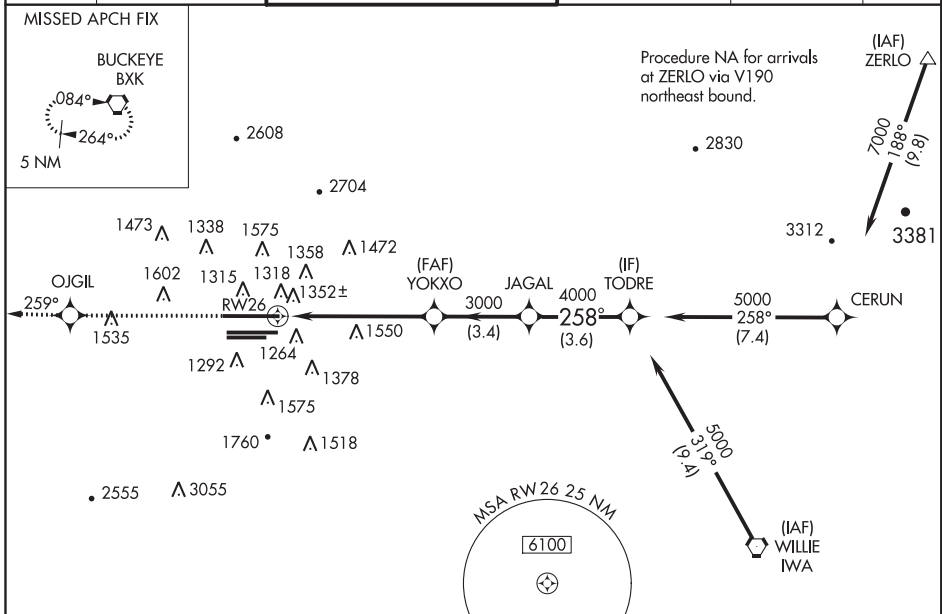
RNAV (GPS) Y RWY 26

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 BXX VORTAC and hold.

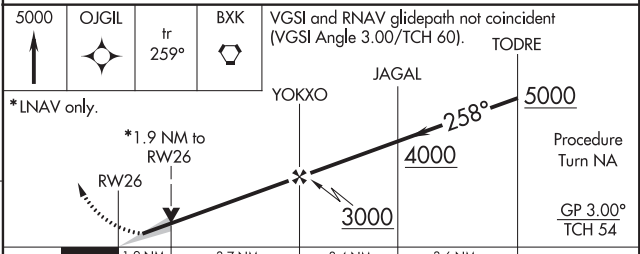
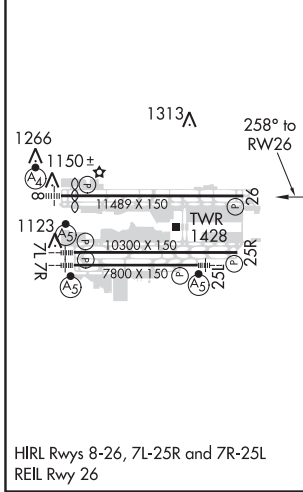
ATIS 127.575	PHOENIX APP CON 128.65 353.8	PHOENIX TOWER 118.7 278.8 (Rwy 8-26) 120.9 254.3 (Rwy 7L-25R, 7R-25L)	GND CON 119.75 269.2 (N) 132.55 269.2 (S)	CLNC DEL 118.1 269.2	CPDLC
------------------------	--	---	---	--------------------------------	-------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1135	D	TDZE 1135
-----------	----------	-----------



CATEGORY	A	B	C	D
LPV DA	1436-1 301 (400-1)			
LNAV/VNAV DA	1659-1 ³ / ₄ 524 (600-1 ³ / ₄)			
LNAV MDA	1800-1	665 (700-1)	1800-1 ³ / ₄ 665 (700-1 ³ / ₄)	1800-2 665 (700-2)
CIRCLING	1800-1	665 (700-1)	1800-1 ³ / ₄ 665 (700-1 ³ / ₄)	1920-2 1/2 785 (800-2 1/2)

(BNYRD5.BNYRD) 16315

BNYRD FIVE DEPARTURE (RNAV)

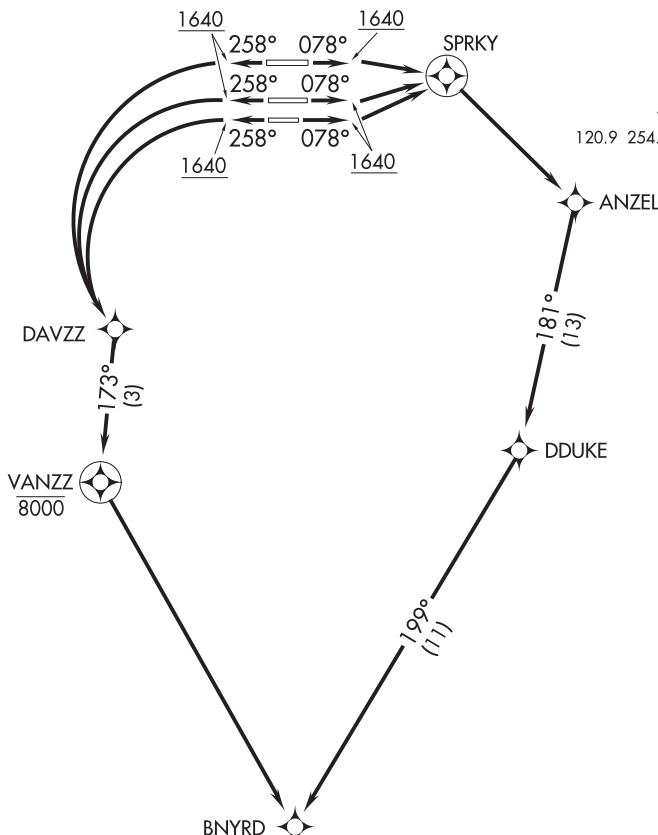
SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA

**TOP ALTITUDE:
8000**

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



- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft, IWA DME must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R, 8, 25L/R, 26: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 220' per NM to 8500.

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

NOTE: Chart not to scale.

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

PHOENIX, ARIZONA
 PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(BNYRD5.BNYRD) 16315

BNYRD FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct SPRKY, then right turn direct ANZEL, then on track 181° to DDUKE, then on track 199° to BNYRD, thence

TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to 1640, then climbing left turn direct DAVZZ, then on track 173° to cross VANZZ at/below 8000, then left turn direct BNYRD, thence

. . . . on track 145° to TFD VORTAC, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)



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 BXX 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 BXX 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 BXX 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 BXX R-077 to BXX 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 BXX R-077 to BXX 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 BXX R-077 to BXX 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 (BXX4.BLH): From over BXX VORTAC via BXX R-262 and BLH R-080 to BLH VORTAC.

PALMDALE TRANSITION (BXX4.PMD): From over BXX VORTAC via BXX 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 (BXX4.PSP): From over BXX VORTAC via BXX R-269 to CURIV INT, then via PSP R-080 to PSP VORTAC.

PARKER TRANSITION (BXX4.PKE): From over BXX VORTAC via BXX R-279 and PKE R-097 to PKE VORTAC.

TAKEOFF OBSTACLE NOTES

Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.

Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.

Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.

Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.

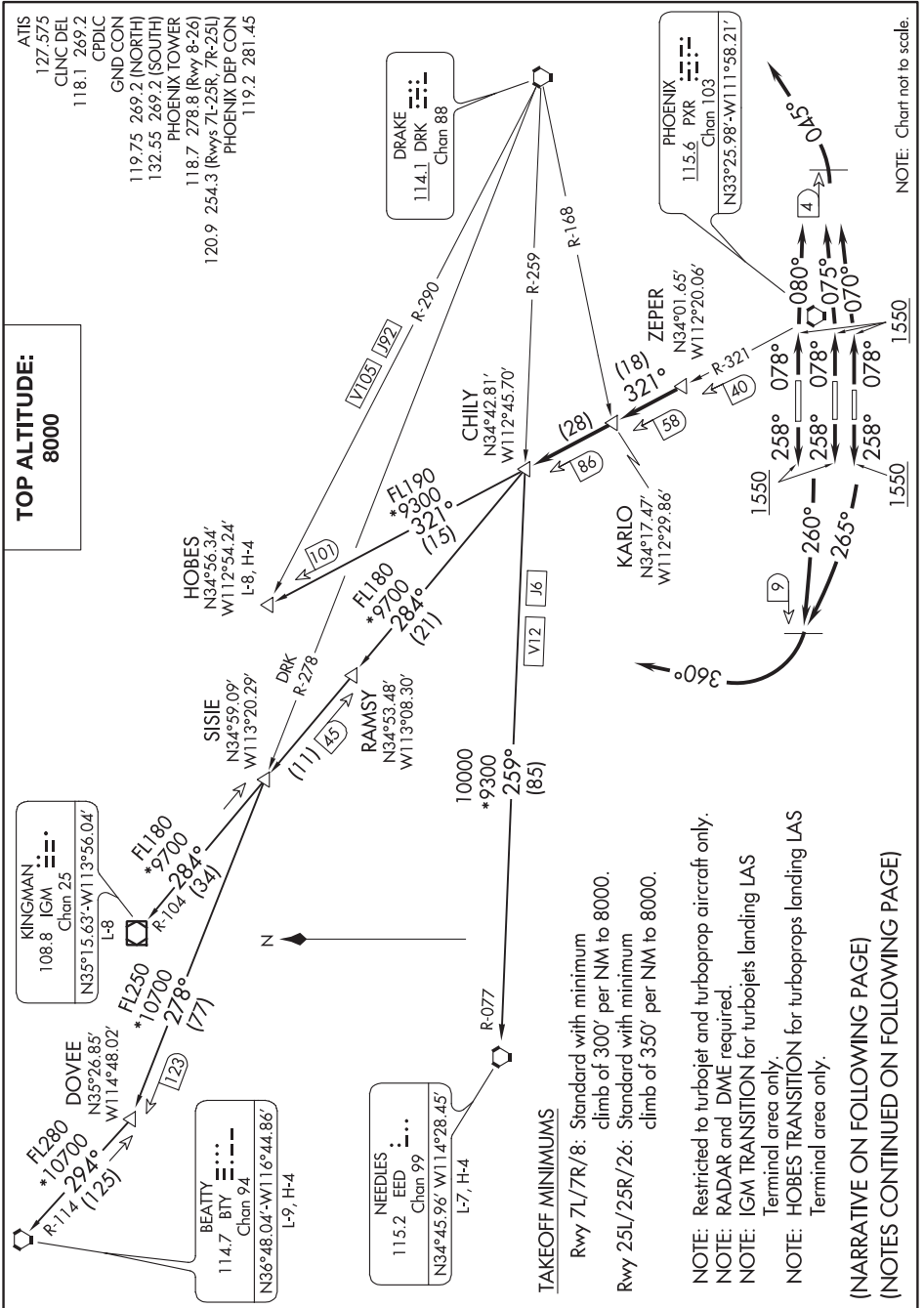
Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

CHILY FOUR DEPARTURE

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

CHILY FOUR DEPARTURE

(CHILY4.CHILY) 16259

CHILY FOUR DEPARTURE

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

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.

TAKEOFF OBSTACLE NOTES

Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.

Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.

Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.

Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.

Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

CHILY FOUR DEPARTURE

(CHILY4.CHILY) 25JUN15

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ATIS
127.575
CINC 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

NOTE: RNAV 1.

NOTE: Turbojets and turboprops only.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: ABQ transition ATC assigned only.

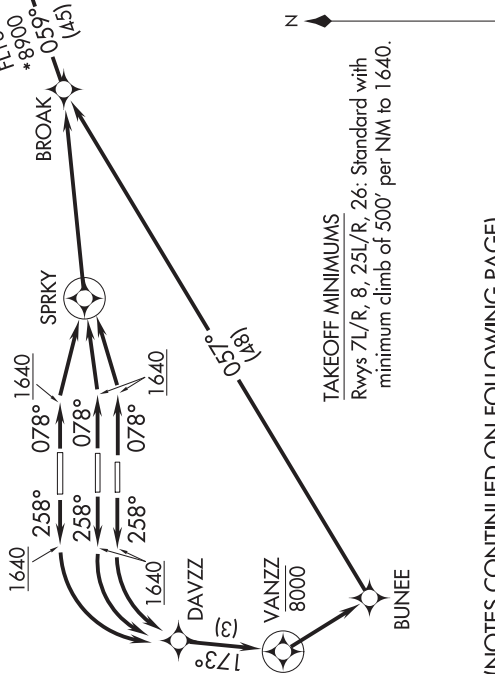
NOTE: Aircraft filing over ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW and TXO file FTHLS DEPARTURE.

NOTE: Aircraft filing over ABQ, CIM, FTI, and GCK file LALUZ DEPARTURE.

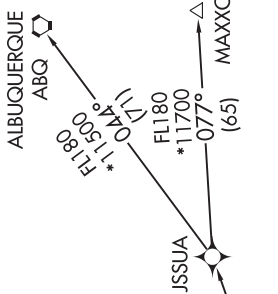
NOTE: Aircraft filing over DEN, RSK, ALS, and points north of ALS file YOTES DEPARTURE.

NOTE: For non-GPS equipped aircraft, PXR and TFD DME's must be operational.

NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



TOP ALTITUDE:
8000



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct to SPRKY, then direct to BROAK, thence
TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to 1640, then turn left direct to DAVZZ, then on track 173° to cross VANZZ at or below 8000, then left turn direct to BUNEE, 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 (FTHLS5.ABQ)

JNIPR TRANSITION (FTHLS5.JNIPR)

MAXXO TRANSITION (FTHLS5.MAXXO)

(NOTES CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

(FTHLS5.FTHLS) 16315

FTHLS FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FTHLS FIVE DEPARTURE (RNAV)

(FTHLS5.FTHLS) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE:

8000

N

- ATIS 127.575
- CLINC DEL 118.1 269.2
- CPDIC
- GND CON
- 11975 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 1640 then minimum climb of 391' per NM to 7000.
 Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1640.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct to FUTEP, then on track 132° to AZCRD, then on track 199° to USEYE, then on track 264° to cross MASVE at or above 7000 and at or below 210K, then on track 268° to KEENS. Thence

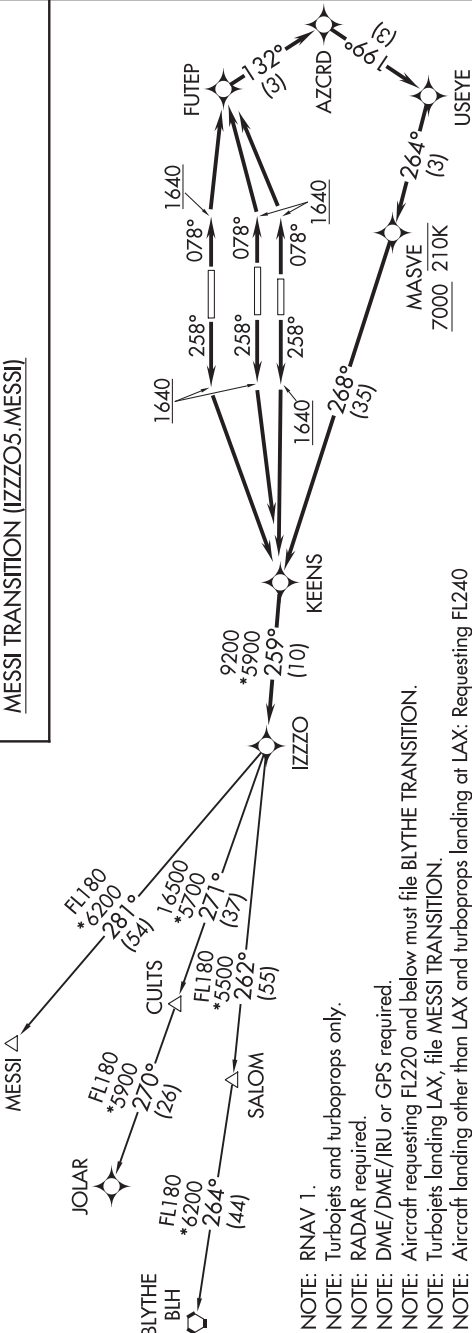
TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to 1640, then direct to KEENS. Thence

. . . . on track 259° to IZZZO, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

BLTYE TRANSITION (IZZZO5.BLH)

JOLAR TRANSITION (IZZZO5.JOLAR)

MESSI TRANSITION (IZZZO5.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 JOLAR TRANSITION.

NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

NOTE: Chart not to scale.

(NOTES CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

(IZZ05.IZZO) 16315

IZZ0 FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

IZZ0 FIVE DEPARTURE (RNAV)

(IZZ05.IZZO) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE:
8000

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct FUTEJ, 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 210K, then on track 264° to OAKLI, then on track 222° to GBN VORTAC, thence

TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to 1640, then climbing left turn direct DAVZZ, then on track 173° to cross VANZZ at/below 8000, then right turn direct CLUBZ, then on track 222° to GBN VORTAC, thence

. . . on track 249° to JUDTH, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5.MOHAK)

NOTE: RNAV 1.

NOTE: Turbojets and turboprops only.

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: Aircraft departing KGEU and KGYR

ATC assigned only.

FL180 *3800

*4000 249° (52)

JUDTH

MOHAK (15)

TAKEOFF MINIMUMS

Rwy 7L: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 391' per NM to 7000.

Rwy 7R: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 380' per NM to 7000.

Rwy 8: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 393' per NM to 7000.

Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 250' per NM to 5600.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

(JUDTH5..JUDTH) 16315

JUDTH FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

JUDTH FIVE DEPARTURE (RNAV)

(JUDTH5..JUDTH) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

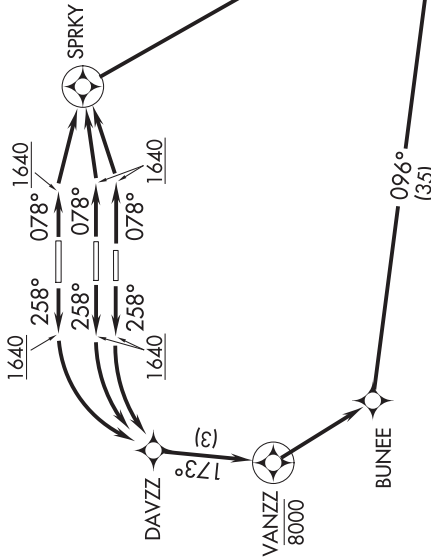
TOP ALTITUDE:
8000

ATIS 127.575
CLNC DEL 118.1 269.2
CPDIC
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

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: For non-GPS equipped aircraft departing KPHX, TFD and DUG DMEs must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R, 8, 25L/R, 26: Standard with minimum climb of 500' per NM to 1640, then minimum climb of 220' per NM to 8500.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct to SPRKY, then direct to ECLIPS. Thence

TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to 1640, then turn left direct to DAVZZ, then on track 173° to cross VANZZ at or below 8000, then left turn direct to BUNEE, then on track 096° to ECLIPS. Thence

. . . . on track 111° to KATMN, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.PHASE)

(NOTES CONTINUED ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

(KATMN5.KATMN) 16315

KATMN FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

KATMN FIVE DEPARTURE (RNAV)

(KATMN5.KATMN) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

2017 JAN 05 10:01Z NOV 10 2017

ATIS

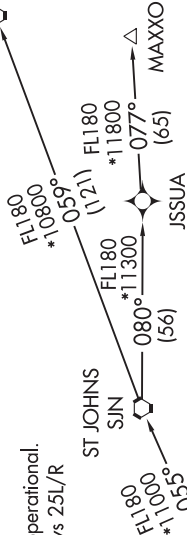
- 127.575
- CINC DEL
- 118.1 269.2
- CPDLC
- GND CON
- 119.75 269.2 (NORTH)
- 132.55 269.2 (SOUTH)
- PHOENIX TOWER
- 118.7 278.8 (Rwy 8-26)
- 120.9 254.3 (Rwys 7L-25R, 7R-25L)
- PHOENIX DEP CON
- 119.2 281.45

NOTE: RNAV 1.

- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: SUN 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, IBL, ONM, CNX, PNH, MMB, TCC, IRW, and TXO, file FTHLS 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 KPHX Rwys 25L/R and 26, IWA and TFD DMEs must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TOP ALTITUDE:
8000

ALBUQUERQUE
ABQ



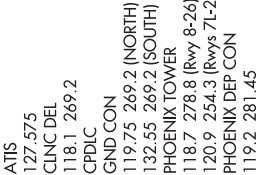
ZILUB

OXYGN

TWSND

SPRKY

FORPE



TAKEOFF MINIMUMS

- Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1640 then minimum climb of 240' per NM to 9000.
- Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 2140.

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

NOTE: Chart not to scale.

(LALUZ5.LALUZ) 16315

LALUZ FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct SPRKY, then left turn direct FORPE, thence

TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to intercept course 308° to TWSND, then on track 349° 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 (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SJN)

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LALUZ FIVE DEPARTURE (RNAV)

(LALUZ5.LALUZ) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(MAXX03.MAXXO) 16259

MAXXO THREE DEPARTURE

PHOENIX SKY HARBOR INTL (PHX)

SL-322 (FAA)

PHOENIX, ARIZONA



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 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, expect 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 via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ANTON CHICO TRANSITION (MAXX03.ACH): From over MAXXO INT via ONM R-049 and ACH R-231 to ACH VORTAC.

CORONA TRANSITION (MAXX03.CNX): From over MAXXO INT via CNX R-259 to CNX VORTAC.

TAKEOFF OBSTACLE NOTES

Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.

Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.

Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.

Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.

Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

MAXXO THREE DEPARTURE

(MAXX03.MAXXO) 25JUN15

PHOENIX, ARIZONA

PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

MAYSA FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

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**



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct to SPRKY, then turn left direct to cross GOALY at or below 9000, then on track 339° to GOLDR, then on track 294° to ZEPER. Thence

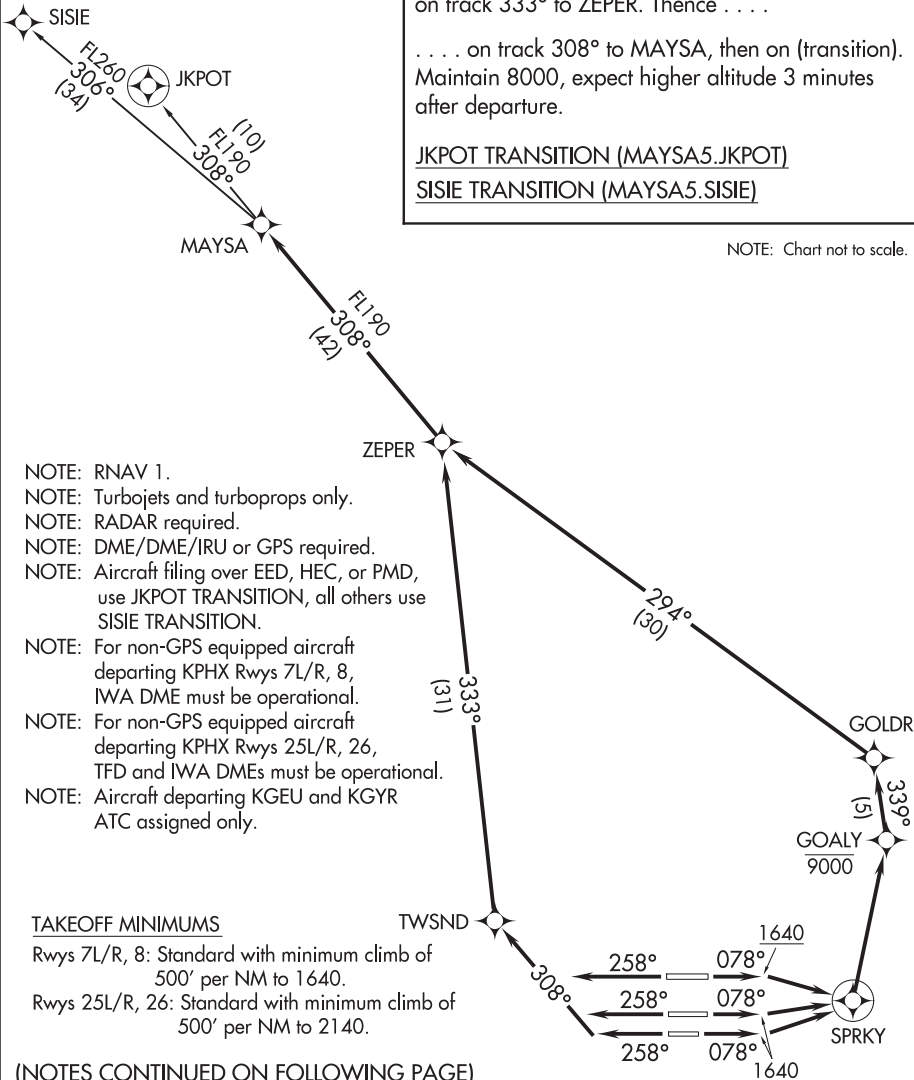
TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to intercept course 308° to TWSND, then on track 333° to ZEPER. Thence

. . . . on track 308° to MAYSA, then on (transition). Maintain 8000, expect higher altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

NOTE: Chart not to scale.



- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: Aircraft filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
- NOTE: For non-GPS equipped aircraft departing KPHX Rwys 7L/R, 8, IWA DME must be operational.
- NOTE: For non-GPS equipped aircraft departing KPHX Rwys 25L/R, 26, TFD and IWA DMEs must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

TAKEOFF MINIMUMS

Rwys 7L/R, 8: Standard with minimum climb of 500' per NM to 1640.
Rwys 25L/R, 26: Standard with minimum climb of 500' per NM to 2140.

(NOTES CONTINUED ON FOLLOWING PAGE)

MAYSA FIVE DEPARTURE (RNAV)

(MAYSA5.MAYSA) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

MAYSA FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

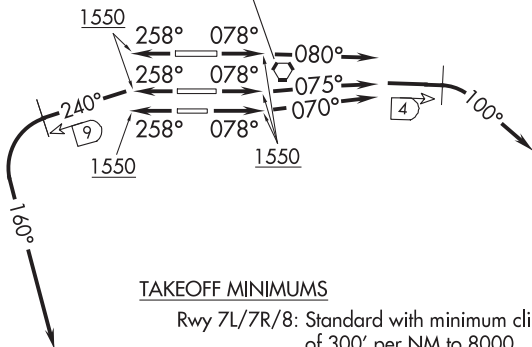
SW-4, 10 NOV 2016 to 05 JAN 2017

MAYSA FIVE DEPARTURE (RNAV)
(MAYSA5.MAYSA) 10NOV16PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

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**

PHOENIX
 115.6 PXR
 Chan 103
 N33°25.98'-W111°58.21'



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.

GILA BEND
 116.6 GBN
 Chan 113
 N32°57.38'-W112°40.46'

L-5, H-4
 5900
 *5000
 235°
 (20)



PXR

R-206

MOBIE
 N33°04.52'
 W112°18.24'

STANFIELD
 114.8 TFD
 Chan 95



R-288

NOTE: Restricted to turbojet and turboprop aircraft only.
 NOTE: DME and RADAR required.

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

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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.

TAKEOFF OBSTACLE NOTES

Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.

Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.

Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.

Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.

Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

SILOW FOUR DEPARTURE

SL-322 (FAA)

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

BRYCE CANYON
112.8 BCE
Chan 75
N37° 41.35'
W112° 18.23'
L-9, H-3

DOVE CREEK
114.6 DVC
Chan 93
N37°48.52'-W108°55.88'
L-9, H-3

RATTLESNAKE
115.3 RSK
Chan 100
N36° 44.90'
W108° 05.93'
L-8, H-4

GRAND CANYON
113.1 GCN
Chan 78
N35°57.62'-W112°08.76'

FLAGSTAFF
113.85 FLG
Chan 85 (Y)
N35°08.83'-W111°40.45'
L-8, H-4

DRAKE
114.1 DRK
Chan 88

WINSLOW
112.6 INW
Chan 73
N35° 03.70'-W110° 47.70'

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.

SILOW
N34°32.63'
W111°32.03'

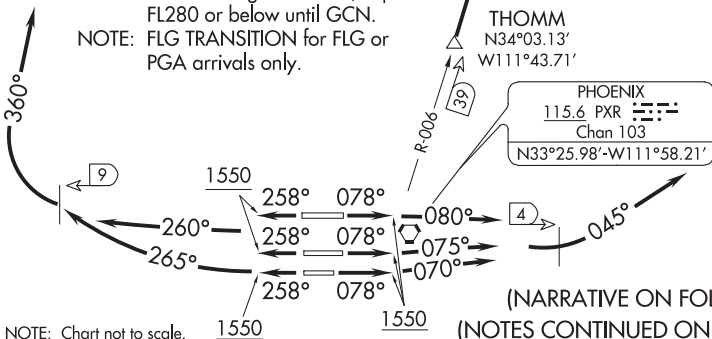
HAPPN
N34°22.60'
W111°36.01'

THOMM
N34°03.13'
W111°43.71'

PHOENIX
115.6 PXR
Chan 103
N33°25.98'-W111°58.21'

**TOP ALTITUDE:
8000**

- NOTE: Restricted to turbojet and turboprop aircraft only.
- NOTE: RADAR and DME required.
- NOTE: Aircraft filing over CIM and GCK file ST JOHNS DEPARTURE.
- NOTE: Aircraft filing over GCN, expect FL280 or below until GCN.
- NOTE: FLG TRANSITION for FLG or PGA arrivals only.



NOTE: Chart not to scale.

SILOW FOUR DEPARTURE

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(SILOW4.SILOW) 16259

SILOW FOUR DEPARTURE

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

SL-322 (FAA)



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-006 to SILOW/PXR 70 DME. Thence via (transition). Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

BRYCE CANYON TRANSITION (SILOW4.BCE): From over SILOW INT via FLG R-155 to FLG VOR/DME, then via FLG R-321 and GCN R-139 to GCN VOR/DME, then via GCN R-341 and BCE R-161 to BCE VORTAC.

DOVE CREEK TRANSITION (SILOW4.DVC): From over SILOW INT via INW R-216 to INW VORTAC, then via INW R-014 and DVC R-195 to DVC VORTAC.

FLAGSTAFF TRANSITION (SILOW4.FLG): From over SILOW INT via FLG R-155 to FLG VOR/DME.

RATTLESNAKE TRANSITION (SILOW4.RSK): From over SILOW INT via INW R-216 to INW VORTAC, then via INW R-038 and RSK R-219 to RSK VORTAC.

TAKEOFF OBSTACLE NOTES

- Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.
- Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.
- Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.
- Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.
- Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

SILOW FOUR DEPARTURE

(SILOW4.SILOW) 25JUN15

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

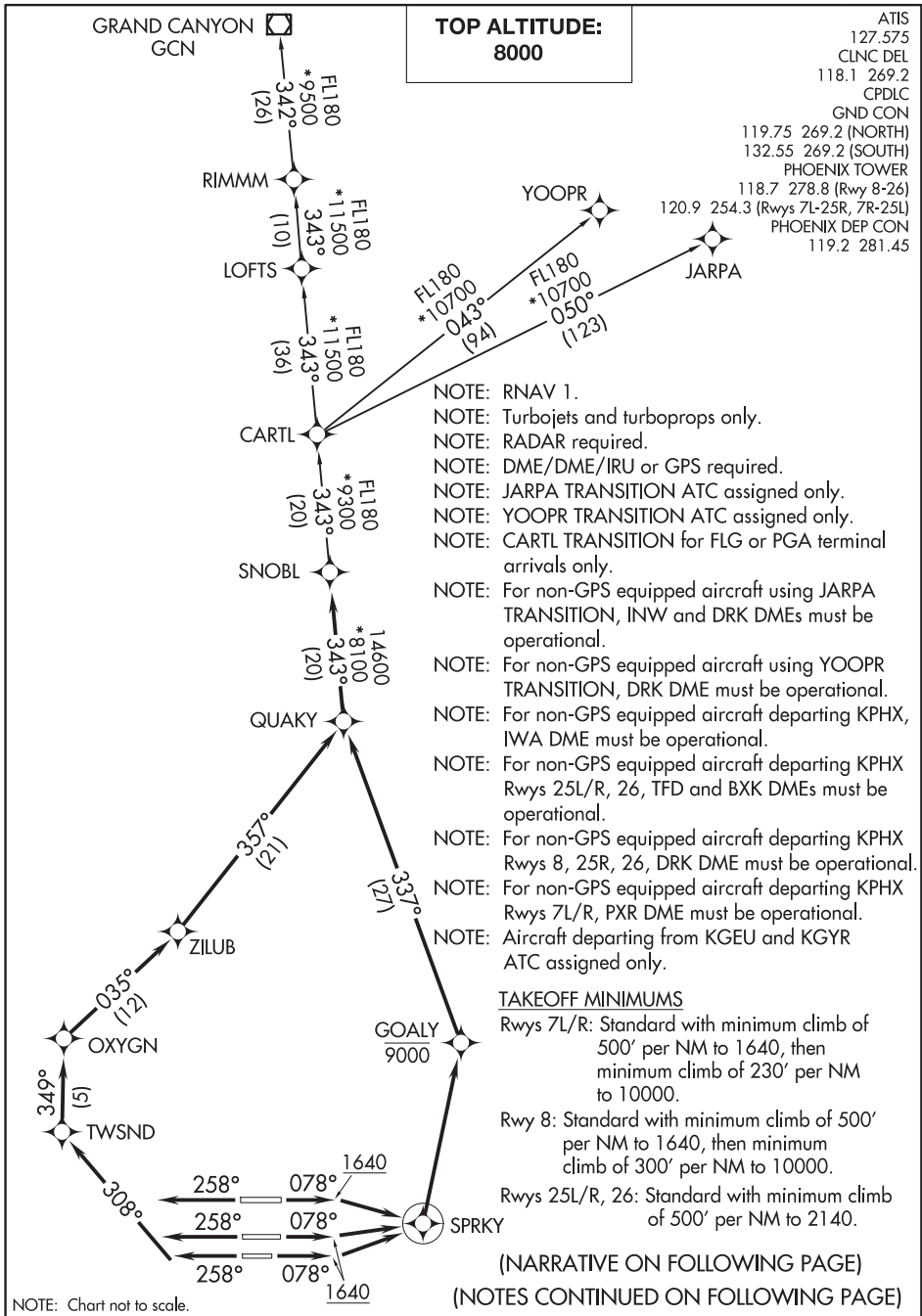
SW-4, 10 NOV 2016 to 05 JAN 2017

SNOBL FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SNOBL FIVE DEPARTURE (RNAV)

(SNOBL5.SNOBL) 10NOV16

PHOENIX, ARIZONA

PHOENIX SKY HARBOR INTL (PHX)

(SNOBL5.SNOBL) 16315

SNOBL FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, then direct SPRKY, then left turn direct to cross GOALY at/below 9000, then on track 337° to QUAKY, thence

TAKEOFF RUNWAYS 25L, 25R, 26: Climb heading 258° to intercept course 308° to TWSND, then on track 349° 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 (SNOBL5.CARTL)

GRAND CANYON TRANSITION (SNOBL5.GCN)

JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)

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.

Pole 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.

SNOBL FIVE DEPARTURE (RNAV)

(SNOBL5.SNOBL) 10NOV16

PHOENIX, ARIZONA

PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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° to PXR R-054 to SJN VORTAC, maintain 8000. 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° 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 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. Expect 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. Expect 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. Expect RADAR vectors to PXR R-054 to SJN VORTAC. Thence

. . . . via transition. Expect filed altitude 3 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (SJN8.ABQ): From over SJN VORTAC via SJN R-059 and ABQ R-240 to ABQ VORTAC.

TAKEOFF OBSTACLE NOTES

- Rwy 7R: Multiple transmission towers, 3202' from DER, 1122' left of centerline, up to 125' AGL/1260' MSL.
- Rwy 8: Multiple LT poles, beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL. LT pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.
- Rwy 25L: Multiple LT poles, beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL. Sign, 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.
- Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.
- Rwy 26: Multiple electrical systems, beginning 43' from DER, 450' left and right of centerline, up to 33' AGL/1142' MSL. Multiple trees, beginning 118' from DER, 214' right of centerline, up to 24' AGL/1133' MSL. Obstacle LT on blast fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL. Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL. Pole, 82' from DER, 64' right of centerline, 18' AGL/1127' MSL. Multiple LT poles, beginning 315' from DER, beginning 318' left of centerline, up to 60' AGL/1170' MSL. Multiple LT poles, beginning 2302' from DER, beginning 193' right of centerline, up to 60' AGL/1171' MSL.

(TFD4.TFD) 16259

STANFIELD FOUR DEPARTURE

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONATAKEOFF OBSTACLE NOTES

- Rwy 7R: Multiple transmission towers 3202' from DER, 1122' left of centerline, up to 125' AGL/
1260' MSL.
Terrain 469' from DER, left and right of centerline up to 1138' MSL.
- Rwy 7L: Terrain beginning 4' from DER, left and right of centerline, up to 1135' MSL.
- Rwy 8: Multiple poles beginning 2540' from DER, 900' left of centerline, up to 100' AGL/1234' MSL.
Light pole, 1640' from DER, 794' right of centerline, 42' AGL/1177' MSL.
- Rwy 25L: Multiple poles beginning 682' from DER, 521' left of centerline, up to 90' AGL/1201' MSL.
Sign 902' from DER, 711' left of centerline, 59' AGL/1170' MSL.
- Rwy 25R: Tree, 1036' from DER, 666' right of centerline, 30' AGL/1140' MSL.
- Rwy 26: Multiple buildings 2.03 NM from DER, 2539' right of centerline, up to 520' AGL/1602' MSL.
Multiple electrical systems beginning 43' from DER, left and right of centerline,
up to 31' AGL/1142' MSL.
Multiple trees beginning 43' from DER, left and right of centerline, up to 24' AGL/1133' MSL.
Fence, 176' from DER, 547' left of centerline, 9' AGL/1120' MSL.
Sign, 520' from DER, 567' right of centerline, 14' AGL/1125' MSL.
Multiple poles beginning 82' from DER, left and right of centerline, up to 60' AGL/1171' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

STANFIELD FOUR DEPARTURE

(TFD4.TFD) 25JUN15

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

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

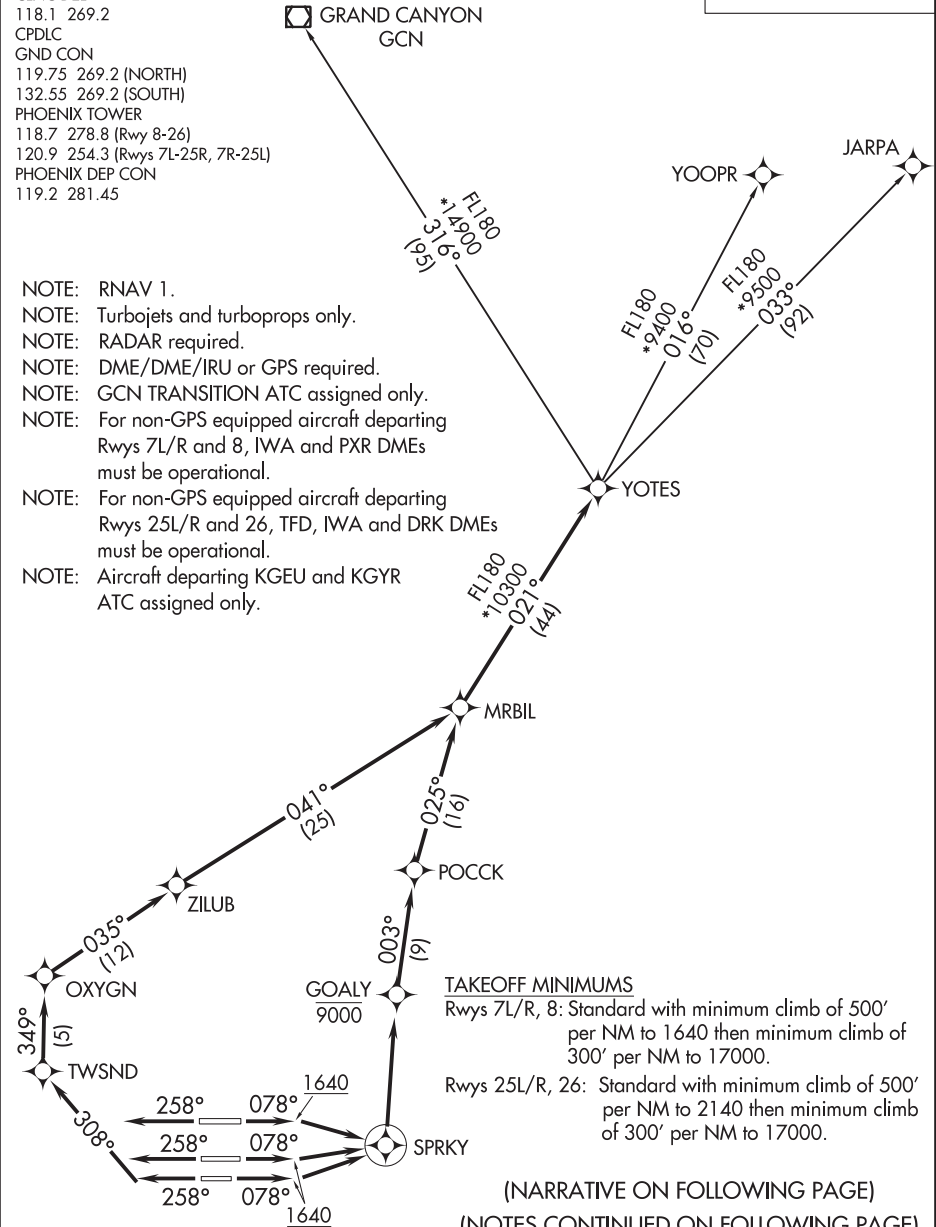
**TOP ALTITUDE:
8000**

GRAND CANYON
GCN

YOOPR

JARPA

- 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.
 NOTE: Aircraft departing KGEU and KGYR
 ATC assigned only.



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

NOTE: Chart not to scale.

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-322 (FAA)

PHOENIX SKY HARBOR INTL (PHX)
PHOENIX, ARIZONA

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 7L, 7R, 8: Climb heading 078° to 1640, 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 RUNWAYS 25L, 25R, 26: Climb heading 258° to intercept 308° course to TWSND, then on track 349° 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 (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

PHOENIX, ARIZONA
PHOENIX SKY HARBOR INTL (PHX)

LOC I-HWA 110.15	APP CRS 303°	Rwy Idg TDZE Apt Elev	10201 1380 1382
----------------------------	------------------------	-----------------------------	--

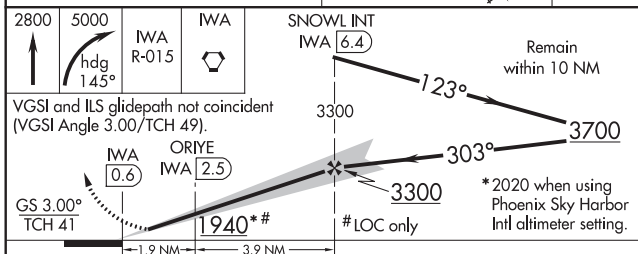
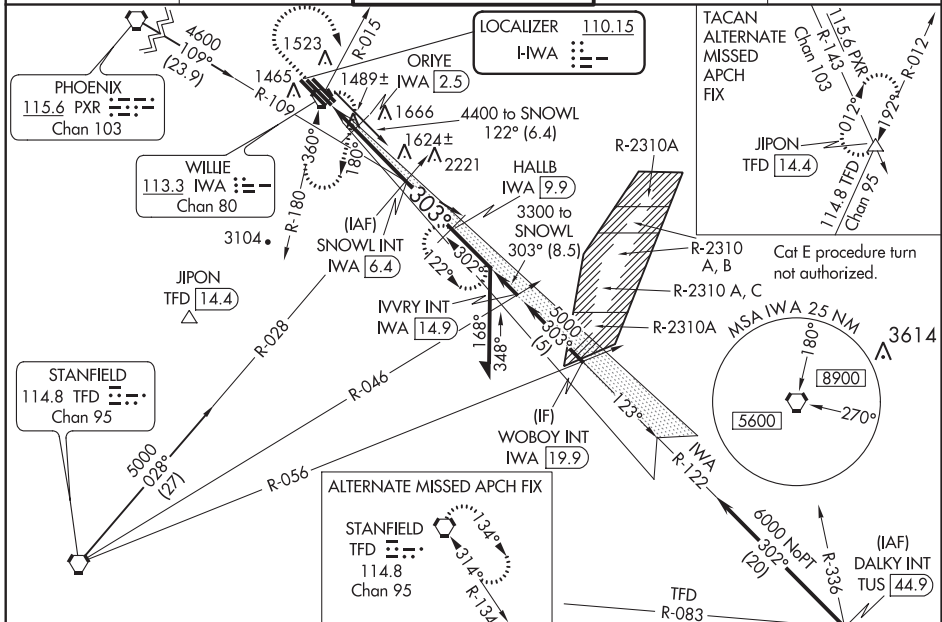
ILS or LOC RWY 30C

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 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER * 120.6 (CTAF) 289.4	GND CON 128.25 275.8	CLNC DEL 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)
ORIE 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	TDZE 1380
MIRL Rwy 12R-30L HIRL Rwys 12L-30R and 12C-30C REIL Rwys 12L and 30R	
Knots	60 90 120 150 180
Min:Sec	5:48 3:52 2:54 2:19 1:56

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 58200 W12A	APP CRS 123°	Rwy Idg 10201 TDZE 1359 Apt Elev 1384
--	------------------------	--

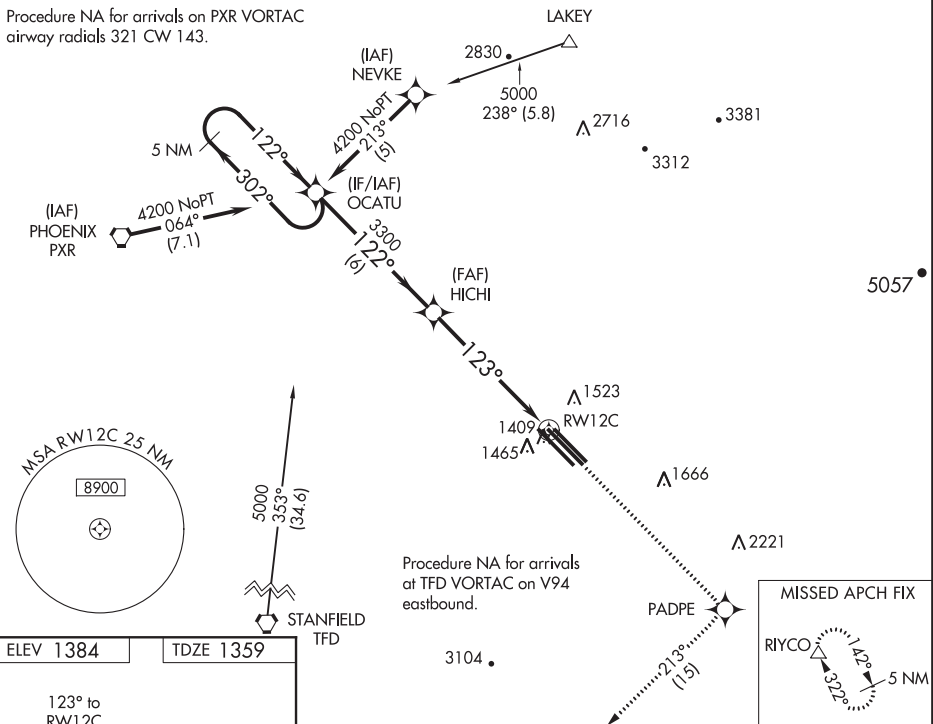
RNAV (GPS) RWY 12C

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 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER * 120.6 (CTAF) 289.4	GND CON 128.25 275.8	CLNC DEL 135.05
------------------------------	---------------------------------------	--	--------------------------------	---------------------------

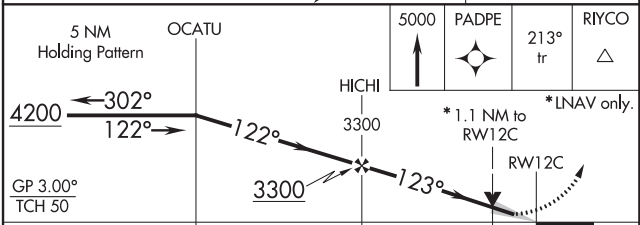
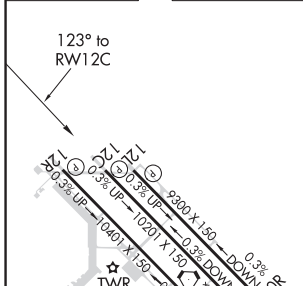
Procedure NA for arrivals on PXR VORTAC
 airway radials 321 CW 143.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 1384	TDZE 1359
------------------	------------------



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)

MIRL Rwy 12R-30L
 HIRL Rwy 12L-30R and 12C-30C
 REIL Rwy 12L and 30R

PHOENIX, ARIZONA

AL-74 (FAA)

16203

WAAS CH 50325 W12B	APP CRS 123°	Rwy Idg 10401 TDZE 1349 Apt Elev 1382
--	------------------------	--

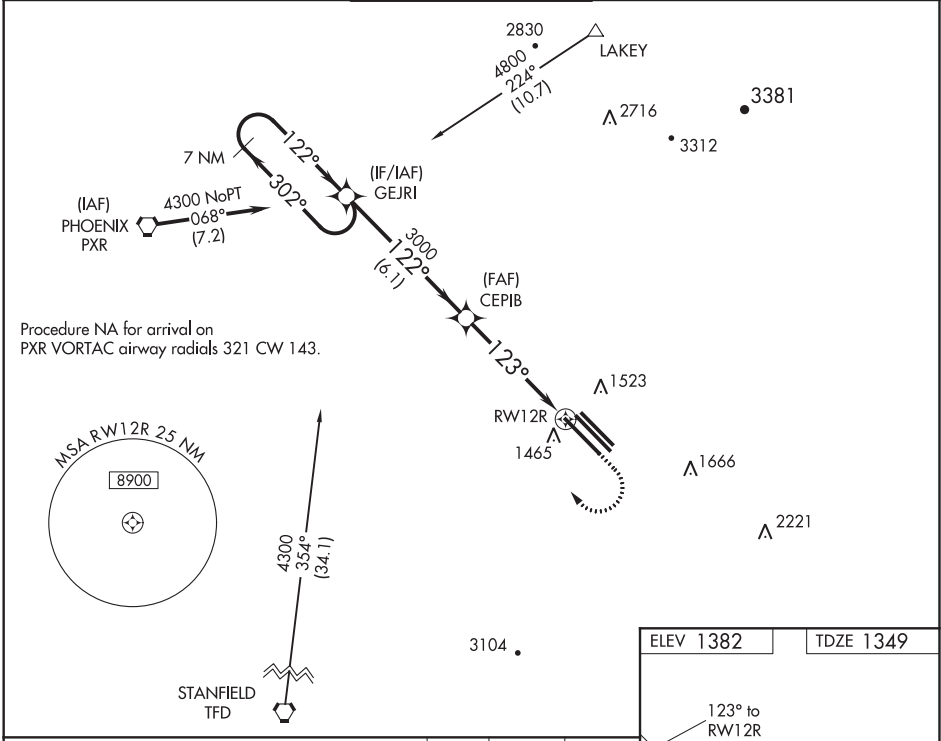
RNAV (GPS) RWY 12R

PHOENIX-MESA GATEWAY (IWA)

⚠ 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.

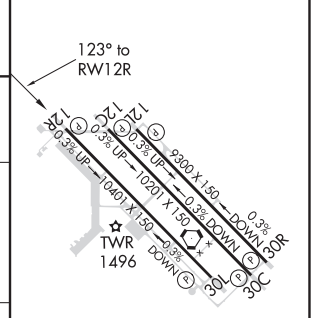
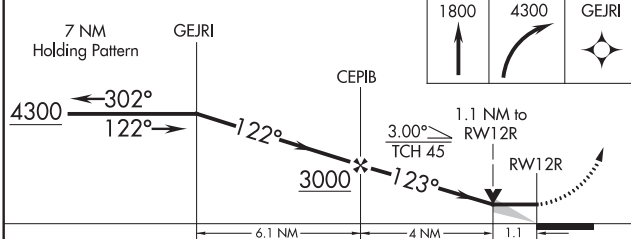
MISSED APPROACH: Climb to 1800 then climbing right turn to 4300 direct GEJRI and hold, continue climb-in-hold to 4300.

ATIS 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER ★ 120.6 (CTAF) 289.4	GND CON 128.25 275.8	CLNC DEL 135.05
------------------------------	---------------------------------------	--	--------------------------------	---------------------------



Procedure NA for arrival on PXR VORTAC airway radials 321 CW 143.

ELEV 1382	TDZE 1349
-----------	-----------



CATEGORY	A	B	C	D	E
LP MDA	1740-1 391 (400-1)		1740-1½ 391 (400-1½)		2300-3 951 (1000-3)
LNAV MDA	1740-1 391 (400-1)		1740-1½ 391 (400-1½)		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

PHOENIX, ARIZONA
Amdt 1B 11DEC14

33°18'N-111°39'W

PHOENIX-MESA GATEWAY (IWA) RNAV (GPS) RWY 12R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 62911 W30A	APP CRS 303°	Rwy Idg 10201 TDZE 1380 Apt Elev 1382
--	------------------------	--

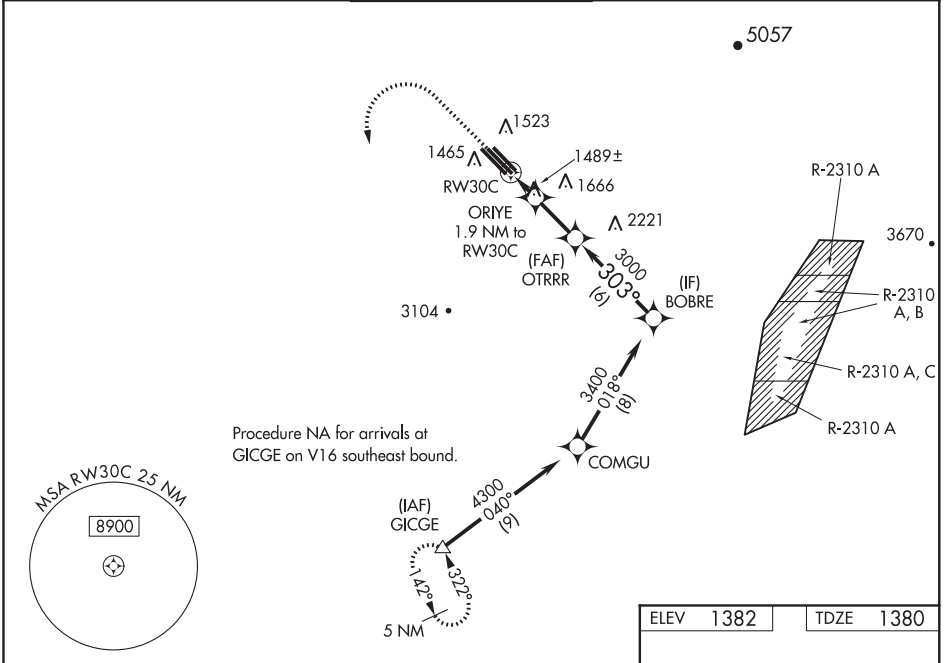
RNAV (GPS) Y RWY 30C

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 ½ 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 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER * 120.6 (CTAF) 289.4	GND CON 128.25 275.8	CLNC DEL 135.05
------------------------------	---------------------------------------	---	--------------------------------	---------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

2800	5000	GICGE	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 49).				
*LNAV only.		ORIYE 1.9 NM to RW30C	OTRRR 3000	BOBRE 3400			
*1.2 NM to RW30C		3000		303°		GP 3.00° TCH 42	
1.2 NM		0.7	3.1 NM		6 NM		
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)		1800-1½ 420 (500-1½)				
CIRCLING	1880-1 498 (500-1)		1880-1½ 498 (500-1½)		1940-2 558 (600-2)		2040-2¼ 658 (700-2¼)

ELEV 1382	TDZE 1380
-----------	-----------

MIRL Rwy 12R-30L
HIRL Rwys 12L-30R and 12C-30C
REIL Rwys 12L and 30R

303° to RW30C

VORTAC IWA 113.3 Chan 80	APP CRS 302°	Rwy Idg TDZE Apt Elev	30C 10201 1380 1382	30R 9301 1382 1382
---------------------------------------	------------------------	-----------------------------	---	--

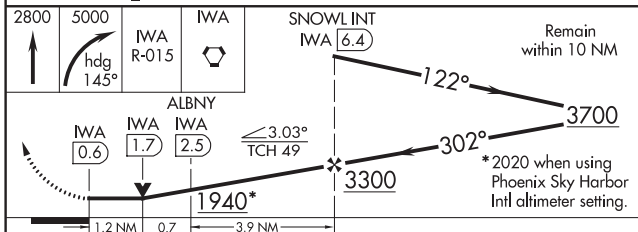
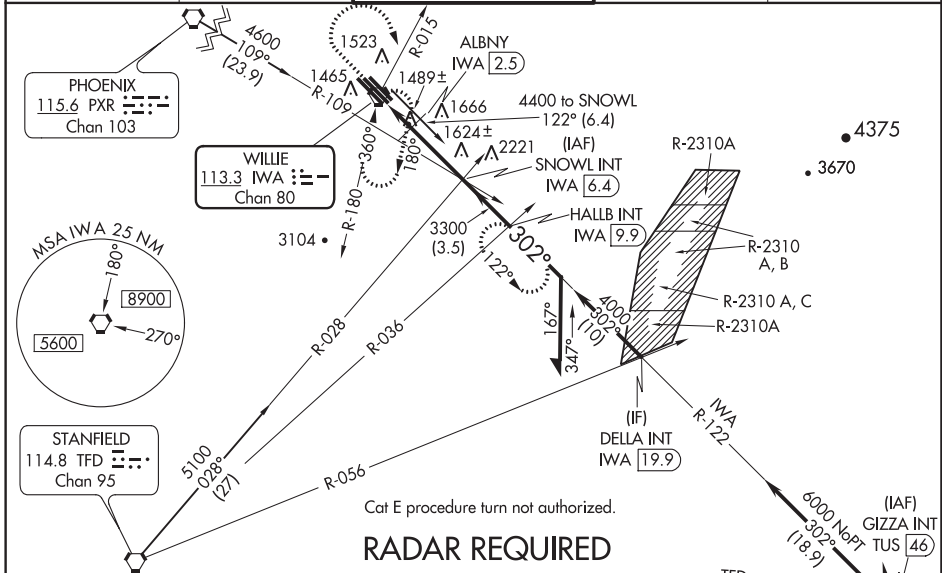
VOR or TACAN RWY 30C

PHOENIX-MESA GATEWAY (IWA)

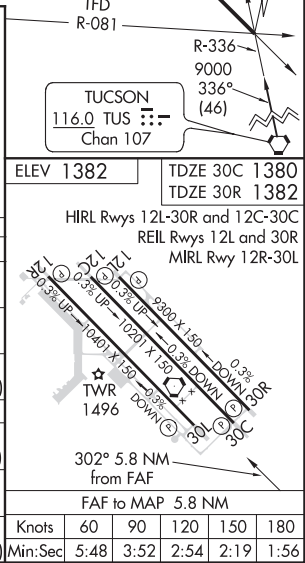
When local altimeter setting not received, use Phoenix Sky Harbor Intl altimeter setting and increase all MDA 80 feet, increase S-30C, SIDESTEP 30R all Cats visibility 1/4 mile, circling Cats A/B/C visibility 1/4 mile, Cat E 1/2 mile.

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 133.5 270.275	PHOENIX APP CON 124.9 353.8	GATEWAY TOWER * 120.6 (CTAF) 289.4	GND CON 128.25 275.8	CLNC DEL 135.05
------------------------------	---------------------------------------	--	--------------------------------	---------------------------



CATEGORY	A		B		C	D	E
	1	2	1	2	1	2	1
S-30C	1940-1	560 (600-1)	1940-1½	560 (600-1½)	1940-1¾	560 (600-1¾)	1940-2
SIDESTEP 30R	1940-1	558 (600-1)	1940-1½	558 (600-1½)	1940-2	558 (600-2)	560 (600-2)
CIRCLING	1940-1	558 (600-1)	1940-1½	558 (600-1½)	1940-2	558 (600-2)	2020-2¼ 638 (700-2¼)
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)	1880-2	498 (500-2)	2020-2¼ 638 (700-2¼)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

PHOENIX-MESA GATEWAY (IWA) PHOENIX, ARIZONA

ATIS
133.5 270.275
GATEWAY TOWER ★
120.6 289.4
GND CON
128.25 275.8
CLNC DEL
135.05

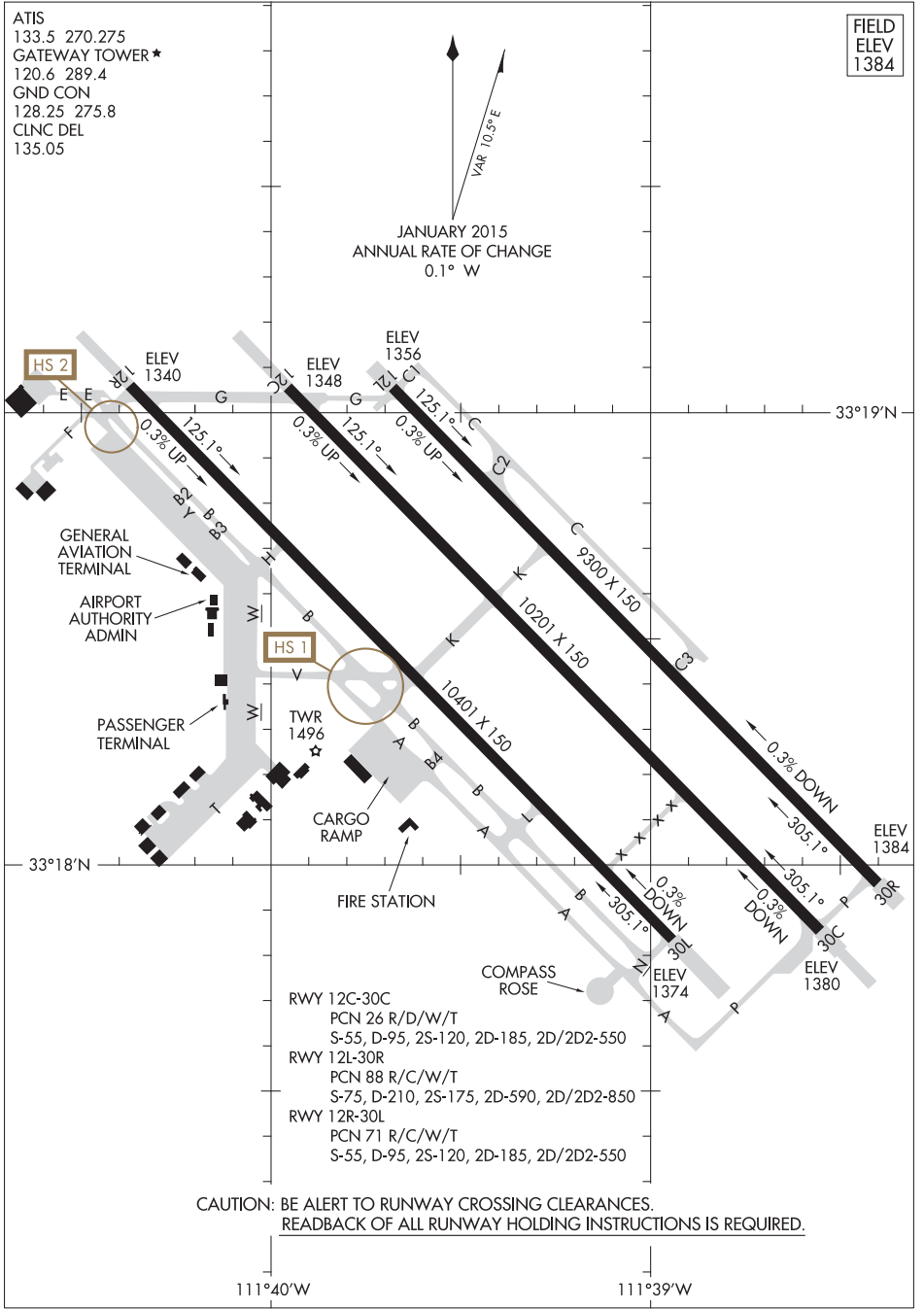
FIELD
ELEV
1384

AL-74 (FAA)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



RWY 12C-30C
PCN 26 R/D/W/T
S-55, D-95, 2S-120, 2D-185, 2D/2D2-550

RWY 12L-30R
PCN 88 R/C/W/T
S-75, D-210, 2S-175, 2D-590, 2D/2D2-850

RWY 12R-30L
PCN 71 R/C/W/T
S-55, D-95, 2S-120, 2D-185, 2D/2D2-550

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

111°40'W

111°39'W

AIRPORT DIAGRAM

PHOENIX, ARIZONA PHOENIX-MESA GATEWAY (IWA)

(BNYRD5.BNYRD) 16315

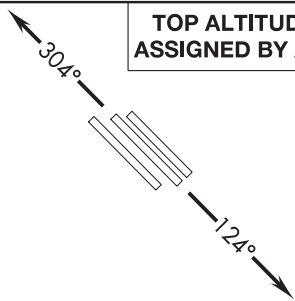
BNYRD FIVE DEPARTURE (RNAV)

SL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

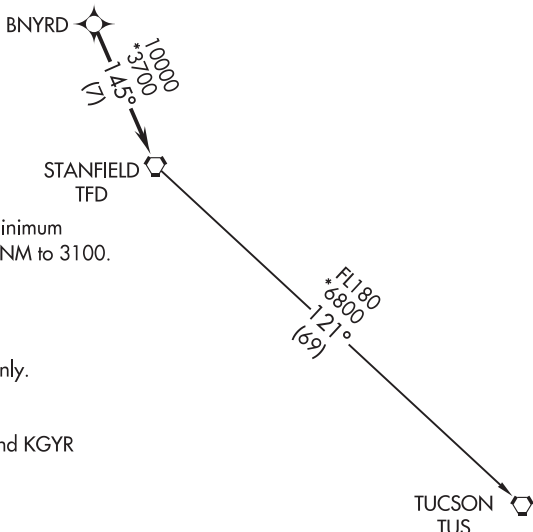
ATIS
 133.5 270.275
 CLNC DEL
 135.05
 GND CON
 128.25 275.8
 GATEWAY TOWER*
 120.6 289.4
 PHOENIX DEP CON
 124.9 353.8

**TOP ALTITUDE:
 ASSIGNED BY ATC**



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.



TAKEOFF MINIMUMS

Rwys 12L/C/R: Standard with a minimum climb of 250' per NM to 3100.
 Rwys 30L/C/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 12L, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . .

TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . .

. . . expect RADAR vectors to BNYRD, then on track 145° to TFD VORTAC. Then on (transition), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

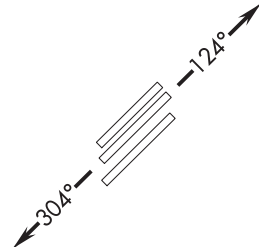
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

7 10:10 JAN 01 9:10:02 VON 01 '4 WS

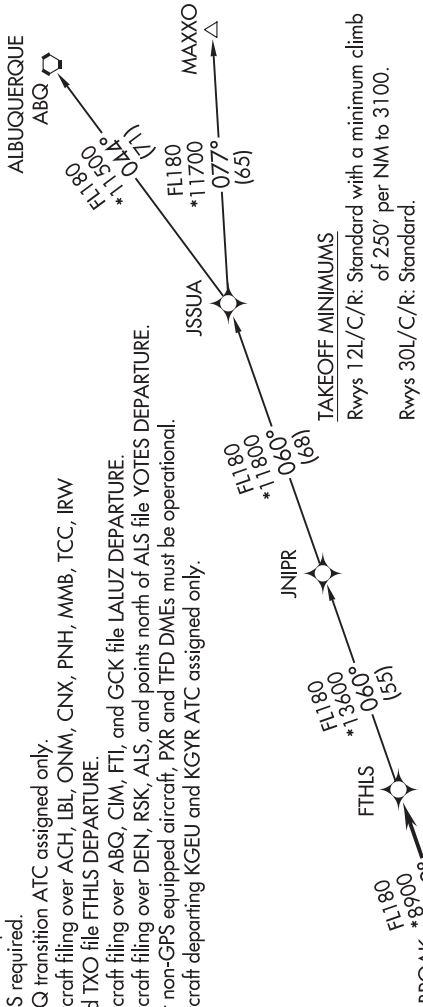
ATIS 133.5 270.275
CLNC DEL 135.05
GND CON 128.25 275.8
GATEWAY TOWER* 120.6 289.4
PHOENIX DEP CON 124.9 353.8

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: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.



NOTE: Chart not to scale.

**TOP ALTITUDE:
ASSIGNED BY ATC**



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L, 12C, 12R: Climb heading 124° or as assigned by ATC, thence...
TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence...

... expect RADAR vectors to BROAK, then on track 059° to FTHLS. Then on (transition), expect filed altitude 3 minutes after departure.

- ALBUQUERQUE TRANSITION (FTHLS5.ABQ)
- JNIPR TRANSITION (FTHLS5.JNIPR)
- MAXXO TRANSITION (FTHLS5.MAXXO)

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

(IZZZO5.IZZZO) 16315

IZZZO FIVE DEPARTURE (RNAV)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

SL-74 (FAA)

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: ASSIGNED BY ATC

ATIS 133.5 270.275
 CLNC DEL 135.05
 GND CON
 GATEWAY TOWER* 128.25 275.8
 PHOENIX DEP CON 120.6 289.4
 124.9 353.8

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 12L, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . . .

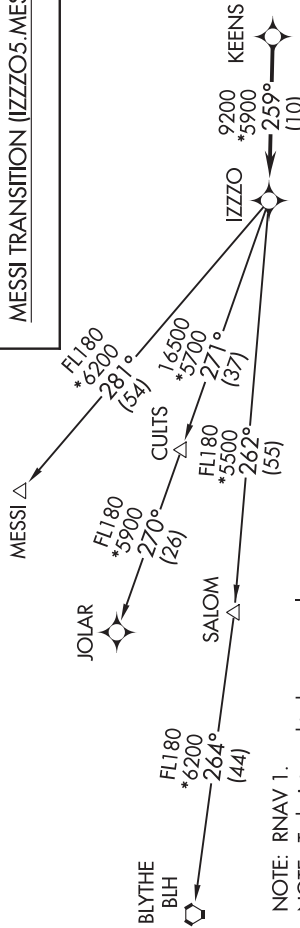
TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to KEENS, then on track 259° to IZZZO. Then on (transition), expect filed altitude 3 minutes after departure.

BLYTHE TRANSITION (IZZZO5.BLH)

JOLAR TRANSITION (IZZZO5.JOLAR)

MESSI TRANSITION (IZZZO5.MESSI)



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 JOLAR 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.

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

IZZZO FIVE DEPARTURE (RNAV)

(IZZZO5.IZZZO) 10NOV16

PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

7 10 17 01 01 9 1 02 10 VON VON 01 ' 4 WS

**TOP ALTITUDE:
ASSIGNED BY ATC**

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.

- ATIS 133.5 270.275
- CUNC DEL 135.05
- GND CON 128.25 275.8
- GATEWAY TOWER* 120.6 289.4
- PHOENIX DEP CON 124.9 353.8

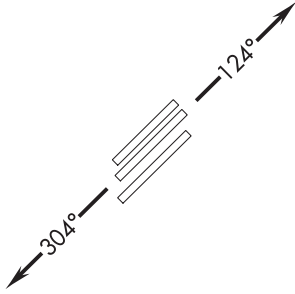
NOTE: RNAV 1.

NOTE: Turbojets and turboprops only.

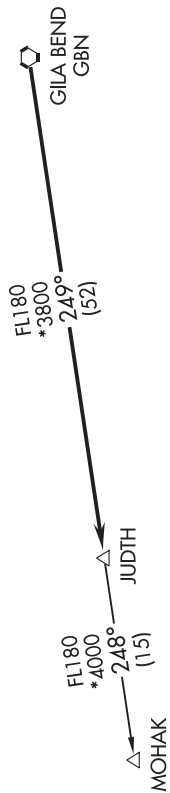
NOTE: RADAR required.

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, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . . .
 TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . . .
 . . . expect RADAR vectors to GBN VORTAC, then on track 249° to JUDTH. Then on (transition), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5.MOHAK)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

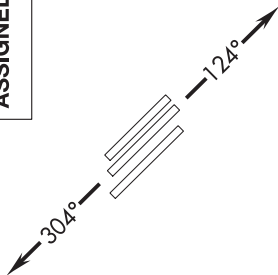
KATMN FIVE DEPARTURE (RNAV)

SL-74 (FAA)

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE: ASSIGNED BY ATC



DEPARTURE ROUTE DESCRIPTION

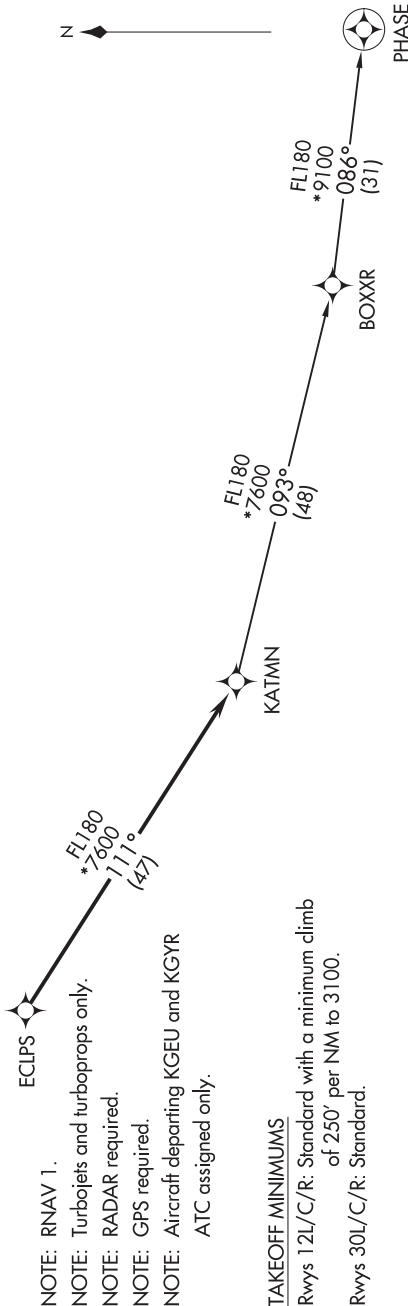
TAKEOFF RUNWAYS 12L, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . . .

TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . expect RADAR vectors to ECLIPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5:PHASE)

ATIS 133.5 270.275
CLNCDEL 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.

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.

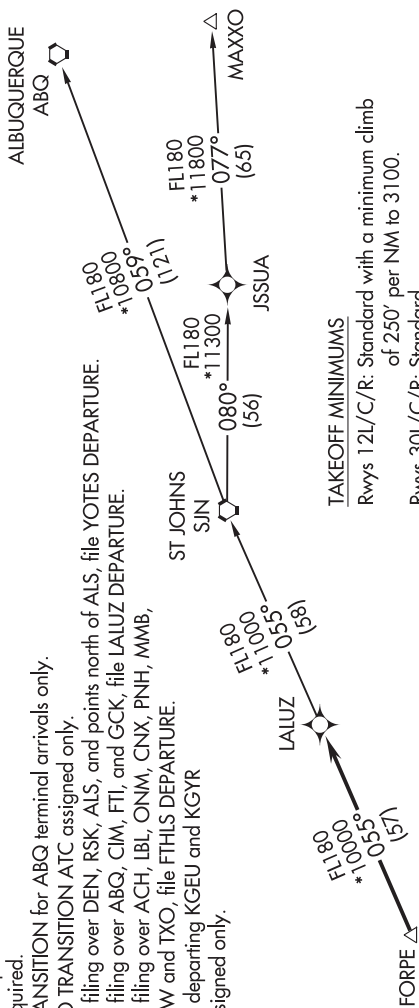
SW-4, 10 NOV 2016 to 05 JAN 2017

7 10 2017 NOV 01 9:10 AM SW-4

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: SIN 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, IBL, 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 12L/C/R: Standard with a minimum climb of 250' per NM to 3100.
Rwys 30L/C/R: 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.

DEPARTURE ROUTE DESCRIPTION

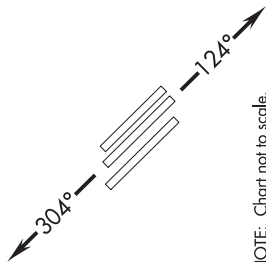
TAKEOFF RUNWAYS 12L, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . . .

. . . . expect RADAR vectors to FORPE, then on track 055° to LALUZ. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)

MAXXO TRANSITION (LALUZ5.MAXXO)

ST JOHNS TRANSITION (LALUZ5.SIN)



NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

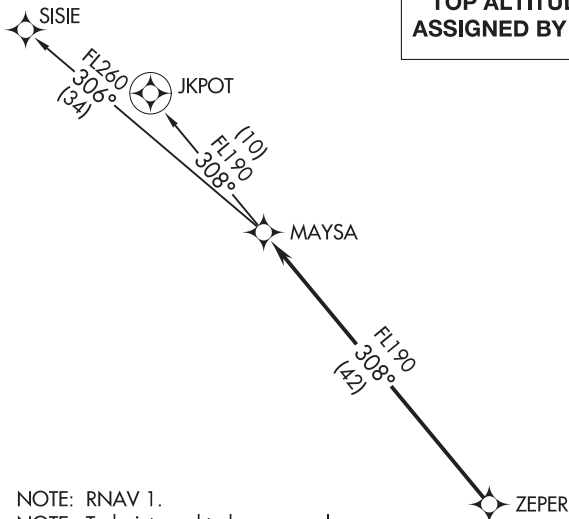
MAYSA FIVE DEPARTURE (RNAV)

SL-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 filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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.

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, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . . .
TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . . .
. . . .expect RADAR vectors to ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

MAYSA FIVE DEPARTURE (RNAV)
(MAYSA5.MAYSA) 10NOV16

PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

**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

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.

GRAND CANYON

GCN



(26)

34.2°

FL180

*9500

(126)

RIMMM



(10)

34.3°

FL180

*11500

(110)

LOFTS

34.3°

FL180

*11500

(36)

CARTL



(20)

34.3°

FL180

*9300

(20)

SNOBL



(20)

34.3°

FL180

*8100

(20)

QUAKY



(20)

34.3°

FL180

*14600

(20)

YOOPR



(94)

04.3°

FL180

*10700

(123)

JARPA



(123)

05.0°

FL180

*10700

(123)

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, 12C, 12R: Climb heading 124° or as assigned by ATC, then...

TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, then...

... expect RADAR vectors to QUAKY, then on track 343° to SNOBL. Then on (transition), expect filed altitude 3 minutes after departure.

CARTL TRANSITION (SNOBL5.CARTL)

GRAND CANYON TRANSITION (SNOBL5.GCN)

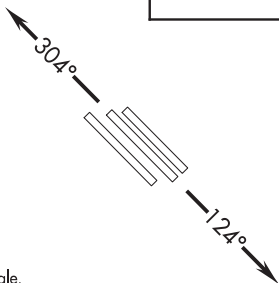
JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)

- 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: Chart not to scale.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

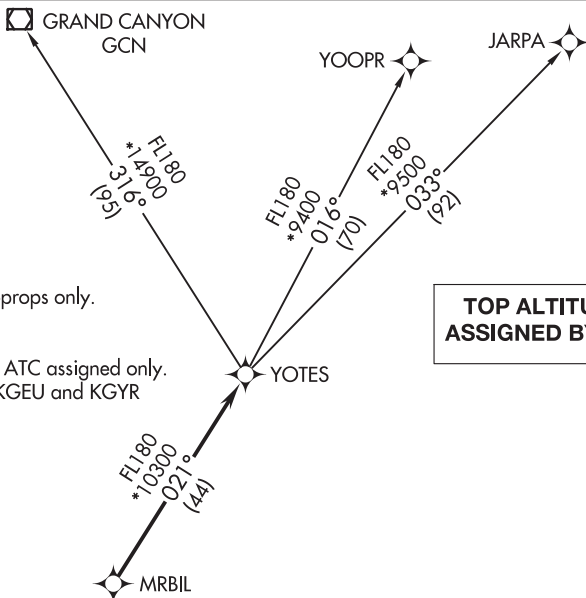
(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-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: GCN TRANSITION ATC assigned only.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

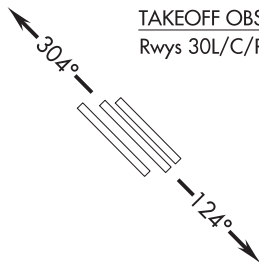
TAKEOFF MINIMUMS

Rwys 12L/C/R: Standard with a minimum climb of 250' per NM to 3100.

Rwys 30L/C/R: Standard.

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, 12C, 12R: Climb heading 124° or as assigned by ATC, thence. . .

TAKEOFF RUNWAYS 30L, 30C, 30R: Climb heading 304° or as assigned by ATC, thence. . .

. . . expect RADAR vectors to MRBIL, then on track 021° to YOTES. Then on (transition), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOPR TRANSITION (YOTES5.YOPR)

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

PRESCOTT, ARIZONA

AL-546 (FAA)

16315

APP CRS	Rwy Idg	7240
028°	TDZE	5022
	Apt Elev	5045

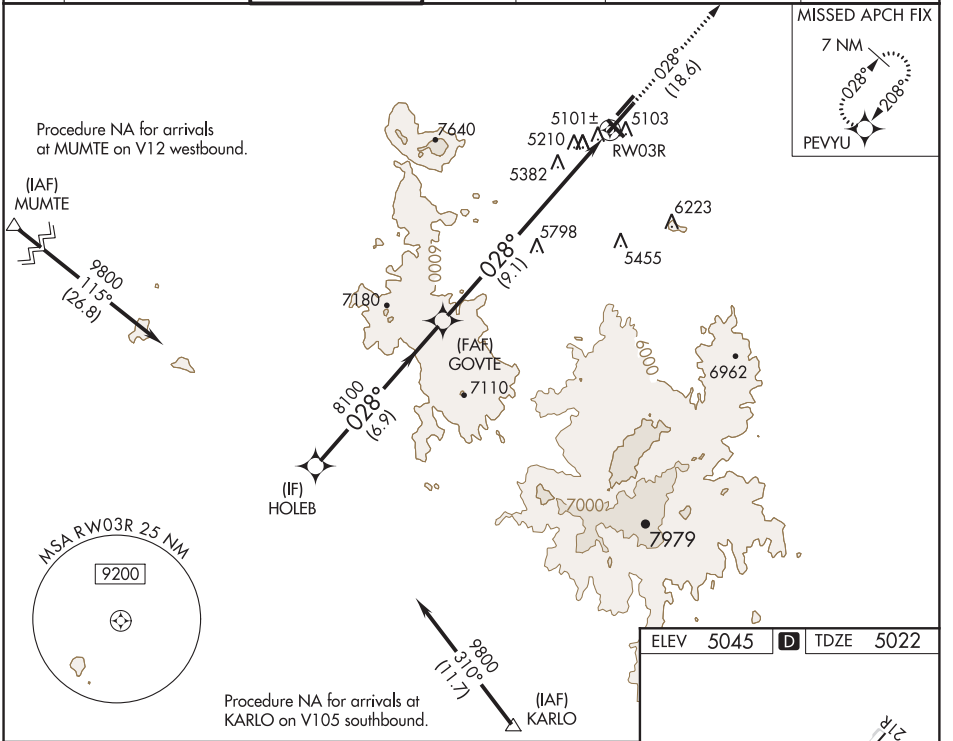
RNAV (RNP) Z RWY 3R

ERNEST A LOVE FIELD (P.R.C)

▼ For uncompensated Baro-VNAV systems, procedure NA below -11°C (13°F) or above 54°C (130°F). GPS required. Procedure NA at night.

MISSED APPROACH: Climb to 9100 on track 028° direct PEVYU and hold.

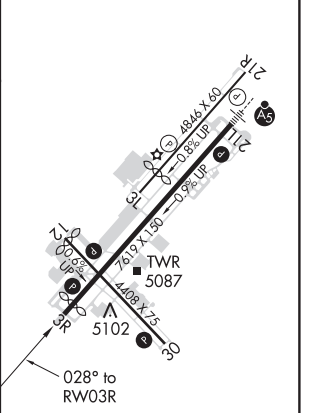
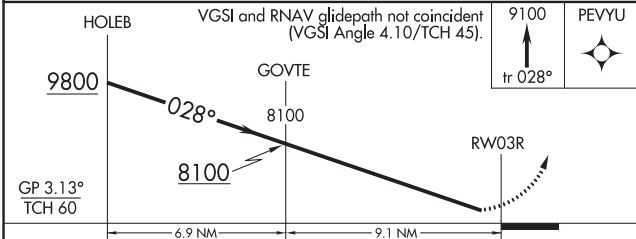
ATIS	PHOENIX APP CON	PRESCOTT TOWER *	GND CON	CLNC DEL	128.75 (12-30)	UNICOM
127.2	133.575 281.55	125.3 (CTAF) 257.9	121.7	119.25	125.3 (CTAF) (3R-21L)	122.95



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV	5045	D	TDZE	5022
------	------	---	------	------



CATEGORY	A	B	C	D
RNP 0.15 DA	5376-1 $\frac{1}{8}$	354 (400-1 $\frac{1}{8}$)		NA
RNP 0.30 DA	5540-1 $\frac{3}{8}$	518 (500-1 $\frac{3}{8}$)		NA

AUTHORIZATION REQUIRED

PRESCOTT, ARIZONA
Amdt 1A 31MAR16

34°39'N-112°25'W

ERNEST A LOVE FIELD (P.R.C)
RNAV (RNP) Z RWY 3R

WAAS CH 49235 W12A	APP CRS 123°	Rwy Idg TDZE Apt Elev	4258 5026 5045
--	------------------------	-----------------------------	---

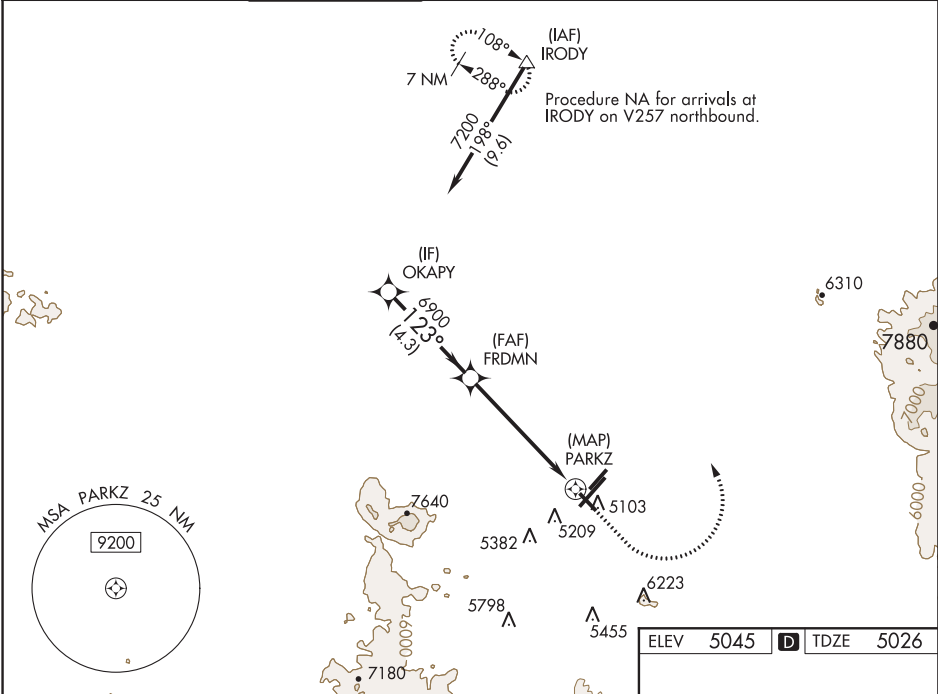
RNAV (GPS) RWY 12

ERNEST A LOVE FIELD (PRC)

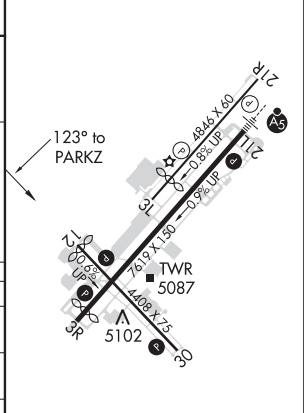
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 49°C (121°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Night Landing: Rwy 3R, 12, 30 NA.

MISSED APPROACH: Climb to 5500 then climbing left turn to 9000 direct IRODY and hold, continue climb-in-hold to 9000.

ATIS 127.2	PHOENIX APP CON 133.575 281.55	PRESCOTT TOWER * 125.3 (CTAF) 257.9	GND CON 121.7	CLNC DEL 119.25	128.75 (12-30) 125.3 (CTAF) (3R-21L)	UNICOM 122.95
----------------------	--	--	-------------------------	---------------------------	---	-------------------------



ELEV	5045	TDZE	5026
------	------	------	------



CATEGORY	A	B	C	D
LPV DA		5276-1	250 (300-1)	
LNAV/VNAV DA		5432-1 3/8	406 (400-1 3/8)	
LNAV MDA	5520-1	494 (500-1)	5520-1 3/8	494 (500-1 3/8)
CIRCLING	5520-1 475 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)

MIRL Rwy 3L-21R and 3R-21L
MIRL Rwy 12-30
REIL Rwy 3R, 12, and 30

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

PRESCOTT, ARIZONA

AL-546 (FAA)


16315

WAAS CH 40002 W21A	APP CRS 208°	Rwy Idg TDZE Apt Elev	7619 4976 5045
---------------------------------	------------------------	-----------------------------	---

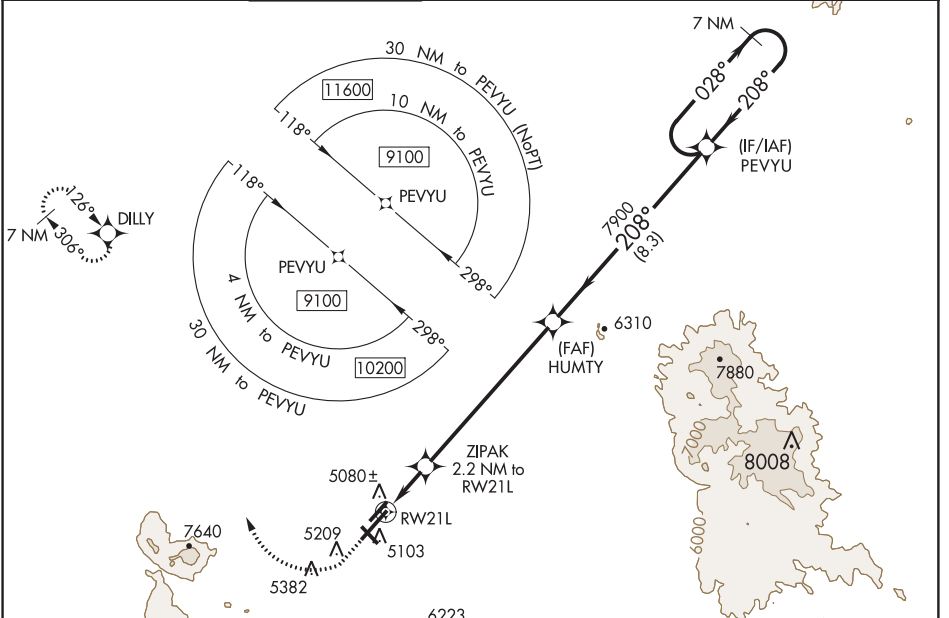
RNAV (GPS) RWY 21L

ERNEST A LOVE FIELD (PRC)

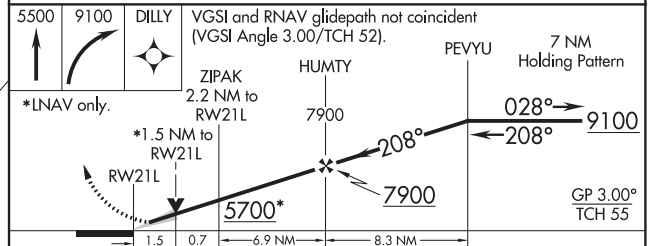
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 47°C (117°F). Circling to Rwy 30 NA at night. For inoperative MALSR increase LPV visibility all Cats to 1 mile. Night Landing: Rwy 3R, 12, 30 NA.
Missed approach requires a minimum climb of 345 feet per 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.

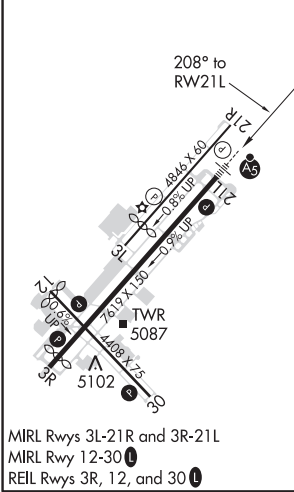
ATIS 127.2	PHOENIX APP CON 133.575 281.55	PRESCOTT TOWER * 125.3(CTAF) 257.9	GND CON 121.7	CLNC DEL 119.25	128.75 (12-30) 125.3 (CTAF) (3R-21L)	UNICOM 122.95
----------------------	--	--	-------------------------	---------------------------	---	-------------------------



ELEV 5045	D	TDZE 4976
------------------	----------	------------------



CATEGORY	A	B	C	D
LPV DA		# 5176-½	200 (200-½)	
LPV DA		5276-½	300 (300-½)	
LNAV/VNAV DA		5390-⅞	414 (400-⅞)	
LNAV MDA	5480-½	504 (500-½)	5480-1	504 (500-1)
C CIRCLING	5520-1 475 (500-1)	5760-1 715 (800-1)	6080-3 1035 (1100-3)	6680-3 1635 (1700-3)



PRESCOTT, ARIZONA
Amdt 2B 31MAR16

34°39'N-112°25'W

RNAV (GPS) RWY 21L

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 45835 W03B	APP CRS 028°	Rwy Idg TDZE Apt Elev	7240 5022 5045
--	------------------------	-----------------------------	---

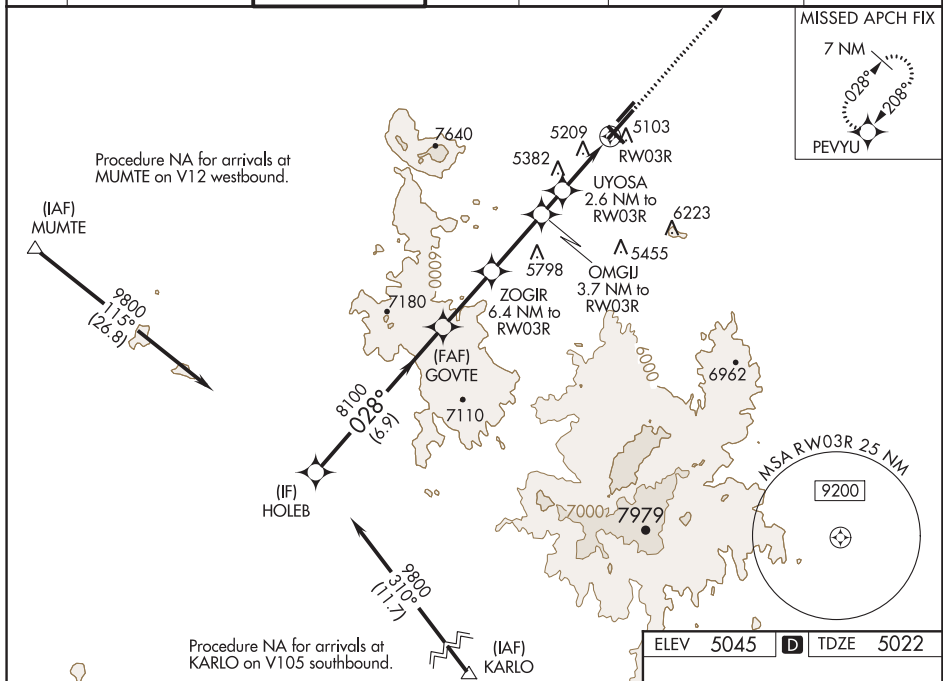
RNAV (GPS) Y RWY 3R

ERNEST A LOVE FIELD (PRC)

V Baro-VNAV NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Night Landing: Rwy 3R, 12, 30 NA.

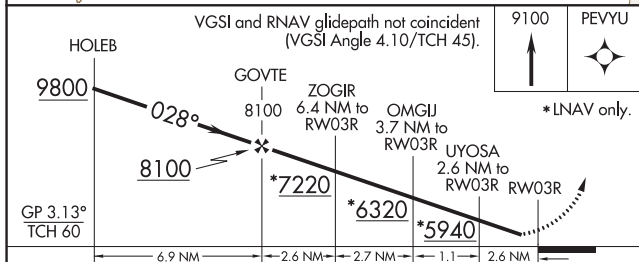
MISSED APPROACH: Climb to 9100 direct PEVYU and hold.

ATIS 127.2	PHOENIX APP CON 133.575 281.55	PRESCOTT TOWER * 125.3 (CTAF) 257.9	GND CON 121.7	CLNC DEL 119.25	128.75 (12-30) 125.3 (CTAF) (3R-21L)	UNICOM 122.95
----------------------	--	--	-------------------------	---------------------------	---	-------------------------



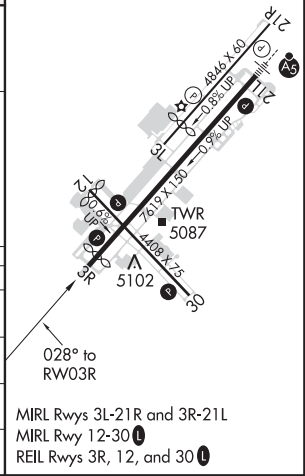
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV	5045	TDZE	5022
------	------	------	------

CATEGORY	A	B	C	D
LPV DA	5311-1 289 (300-1)			NA
LNAV/VNAV DA	5549-1½ 527 (600-1½)			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 Rwy 3L-21R and 3R-21L
MIRL Rwy 12-30
REIL Rwy 3R, 12, and 30

PRESCOTT, ARIZONA

AL-546 (FAA)

16259

VORTAC DRK 114.1 Chan 88	APP CRS 125°	Rwy Idg 4258 TDZE 5024 Apt Elev 5045
--	------------------------	---

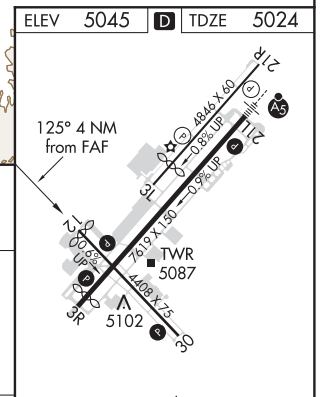
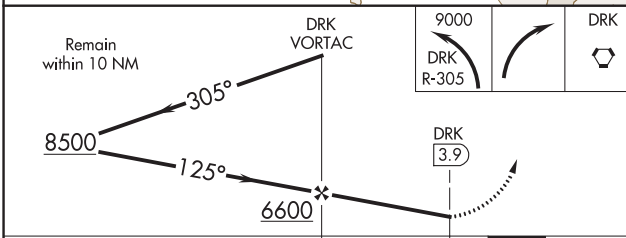
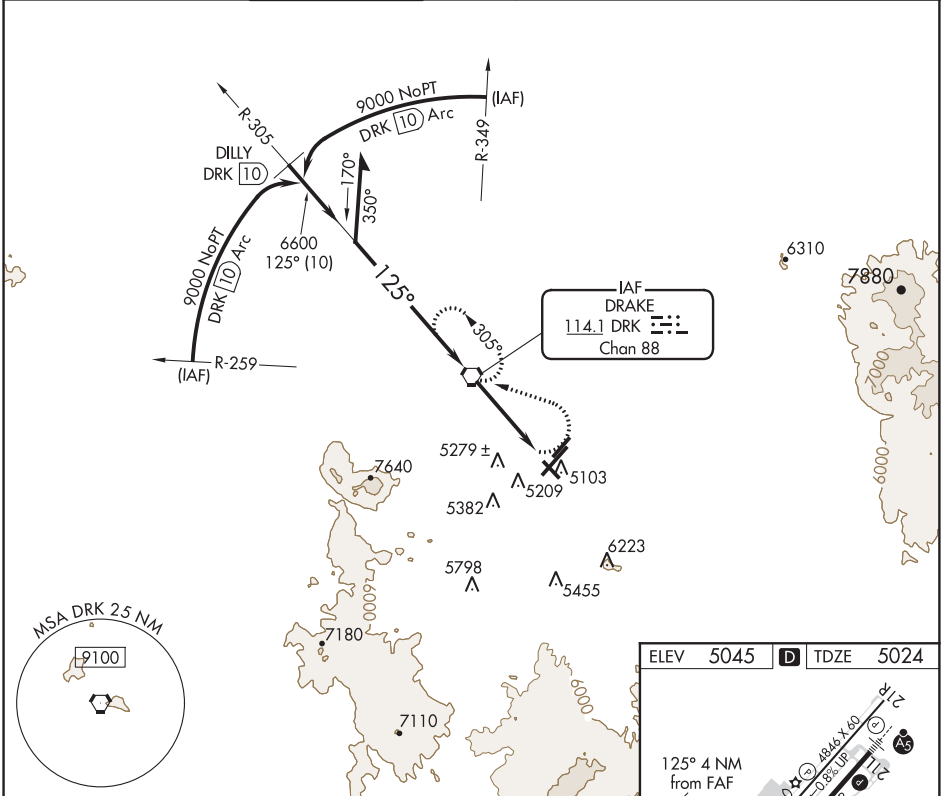
VOR RWY 12

ERNEST A LOVE FIELD (P.R.C)

⚠ Rwy 12 Straight-in and Circling and Circling to Rwy 3R/30 NA at night. Helicopter visibility reduction below 1 SM NA.

⚠ MISSED APPROACH: Climbing left turn to 9000 via DRK VORTAC and DRK R-305, then turn right direct DRK VORTAC and hold.

ATIS 127.2	PHOENIX APP CON 133.575 281.55	PRESCOTT TOWER ★ 125.3 (CTAF) 257.9	GND CON 121.7	CLNC DEL 119.25	128.75 (12-30) 125.3 (CTAF) (3R-21L)	UNICOM 122.95
----------------------	--	--	-------------------------	---------------------------	---	-------------------------



CATEGORY	A	B	C	D
S-12	5540-1	516 (500-1)	5540-1½ 516 (500-1½)	5540-1¾ 516 (500-1¾)
CIRCLING	5540-1 495 (500-1)	5580-1 535 (600-1)	5720-2 675 (700-2)	5940-3 895 (900-3)

ELEV	5045	TDZE	5024
MRL Rwy 3L-21R and 3R-21L			
MRL Rwy 12-30			
REIL Rwy 3R, 12, and 30			
FAF to MAP 3.9 NM			
Knots	60	90	120 150 180
Min:Sec	3:54	2:36	1:57 1:34 1:18

PRESCOTT, ARIZONA
Amdt 2B 22AUG13

34°39'N-112°25'W

ERNEST A LOVE FIELD (P.R.C) VOR RWY 12

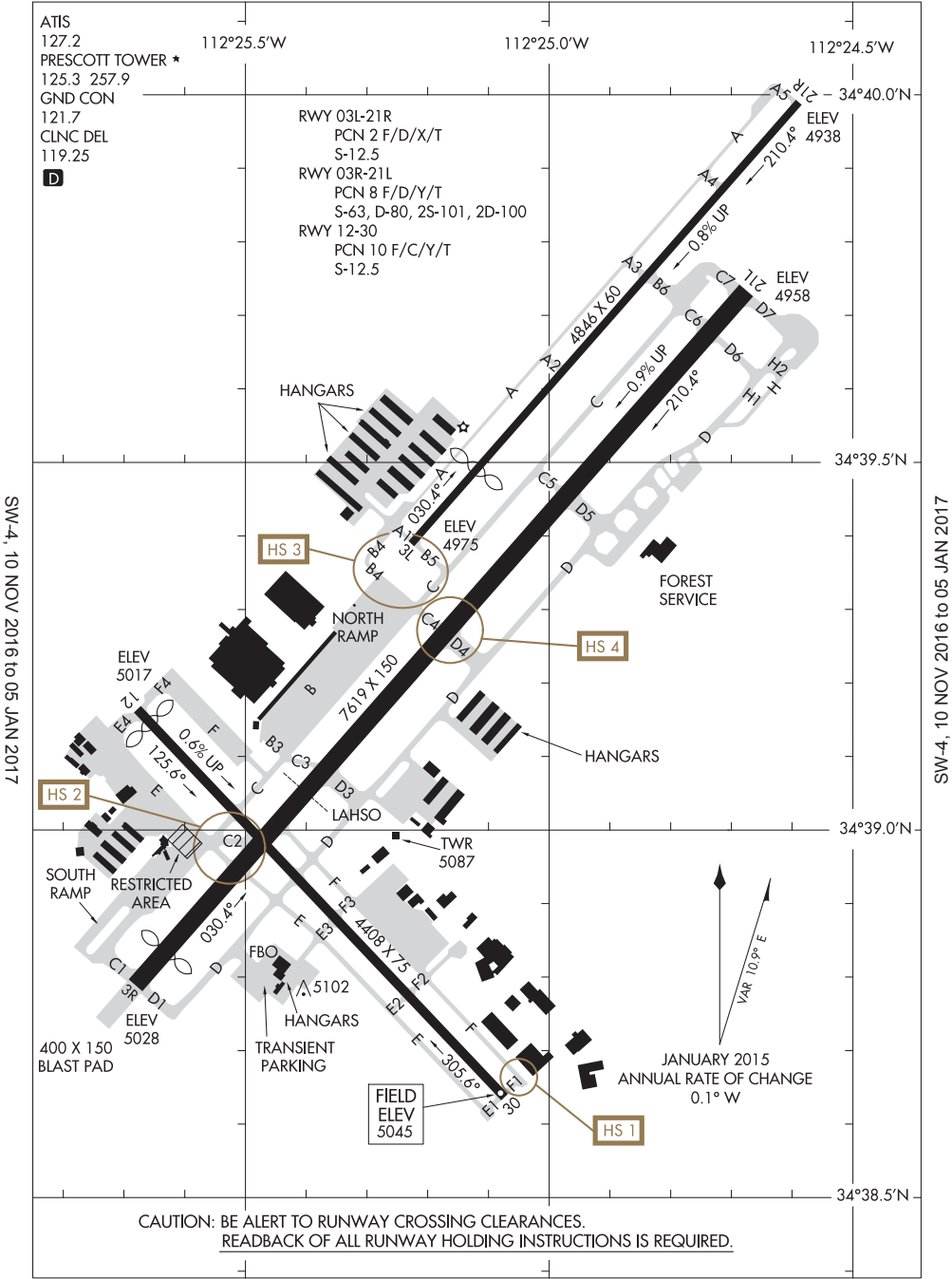
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-546 (FAA)

ERNEST A LOVE FIELD (PRC)
PRESCOTT, ARIZONA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

PRESCOTT, ARIZONA
ERNEST A LOVE FIELD (PRC)

PRC1.DRK 16259

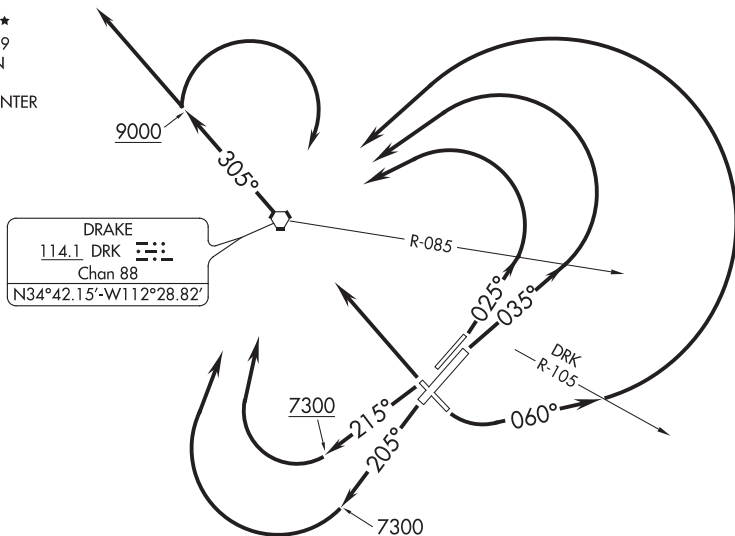
PRESCOTT ONE DEPARTURE (OBSTACLE)

SL-546 (FAA)

ERNEST A LOVE FIELD (P.R.C.)

PRESCOTT, ARIZONA

ATIS
127.2
CLNC DEL
119.25
GND CON
121.7
PRESCOTT TOWER ★
125.3 (CTAF) 257.9
PHOENIX DEP CON
133.575 281.55
ALBUQUERQUE CENTER
128.45 298.9



TAKEOFF MINIMUMS

Rwys 3L/R, 30: Standard.

Rwy 12: Standard with a minimum climb of 345' per NM to 8100.

Rwys 21L/R: Standard with a minimum climb of 500' per NM to 8800.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3L: Climb heading 025° until crossing DRK R-085, then climbing left turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 3R: Climb heading 035° until crossing DRK R-085, then climbing left turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 12: Climbing left turn heading 060° until crossing DRK 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 7300, then climbing right turn direct DRK VORTAC, thence. . . .

TAKEOFF RUNWAY 30: Climb direct DRK VORTAC, thence. . . .

. . . all aircraft continue climb on DRK VORTAC R-305 to 9000. Aircraft departing on DRK VORTAC R-305 continue climb on course. All other aircraft turn right direct DRK VORTAC then climb on course.

PRESCOTT ONE DEPARTURE (OBSTACLE)

PRC1.DRK 03APR14

PRESCOTT, ARIZONA
ERNEST A LOVE FIELD (P.R.C.)

TAKEOFF OBSTACLE NOTES

- Rwy 12: Multiple trees beginning 3' from DER, left and right of centerline, up to 30' AGL/5086' MSL.
Buildings 42' from DER, 287' left of centerline, up to 30' AGL/5054' MSL.
REIL 43' from DER, 114' left of centerline, 2' AGL/5047' MSL.
Bushes beginning 124' from DER, left and right of centerline, up to 30' AGL/5059' MSL.
Road 137' from DER, left and right of centerline, up to 5058' MSL.
Parking lots 217' from DER, 500' left of centerline, up to 5068' MSL.
Tower 426' from DER, 564' left of centerline, 46' AGL/5089' MSL.
Multiple poles beginning 639' from DER, 300' left of centerline, up to 39' AGL/5079' MSL.
- Rwy 21L: Lights beginning 30' from DER, left and right of centerline, up to 42' AGL/5101' MSL.
Navigation equipment beginning 46' from DER, left and right of centerline, up to 21' AGL/5069' MSL.
Fences beginning 83' from DER, left and right of centerline, up to 8' AGL/5057' MSL.
Roads beginning 111' from DER, left and right of centerline, up to 5084' MSL.
Tree stump 196' from DER, 469' left of centerline, 2' AGL/5038' MSL.
Windsock 402' from DER, 270' right of centerline, 10' AGL/5048' MSL.
Multiple trees beginning 538' from DER, left and right of centerline, up to 30' AGL/5120' MSL.
Sign 937' from DER, 227' left of centerline, 7' AGL/5055' MSL.
Buildings 991' from DER, 257' left of centerline, 12' AGL/5059' MSL.
Antenna 1737' from DER, 740' right of centerline, 33' AGL/5089' MSL.
- Rwy 21R: Light poles beginning 564' from DER, left and right of centerline, up to 46' AGL/5058' MSL.
Pavement beginning 637' from DER, 106' left of centerline, up to 5003' MSL.
Buildings 956' from DER, 140' right of centerline, up to 43' AGL/5084' MSL.
Trees beginning 1234' from DER, left and right of centerline, up to 30' AGL/5124' MSL.
- Rwy 30: Buildings beginning 28' from DER, 474' left of centerline, up to 25' AGL/5041' MSL.
Sign 75' from DER, 125' left of centerline, 2' AGL/5019' MSL.
Poles beginning 293' from DER, 551' left of centerline, up to 25' AGL/5035' MSL.
Tree 295' from DER, 132' left of centerline, 30' AGL/5036' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

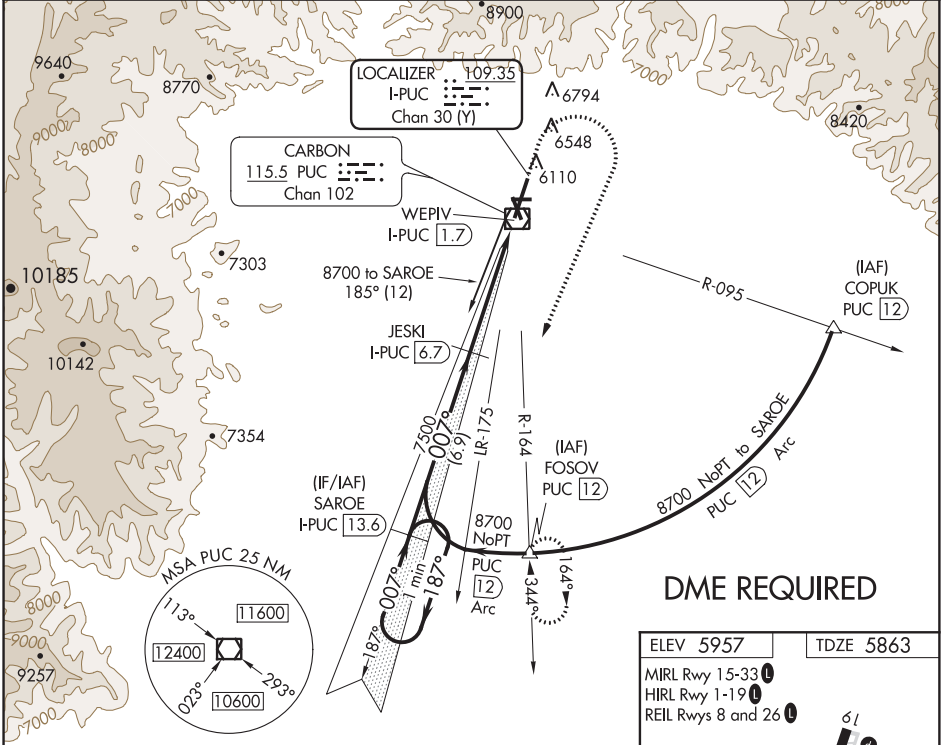
LOC/DME I-PUC 109.35 Chan 30 (Y)	APP CRS 007°	Rwy Idg TDZE 8310 5863	Apt Elev 5957
---	------------------------	--	-------------------------

ILS or LOC/DME RWY 1

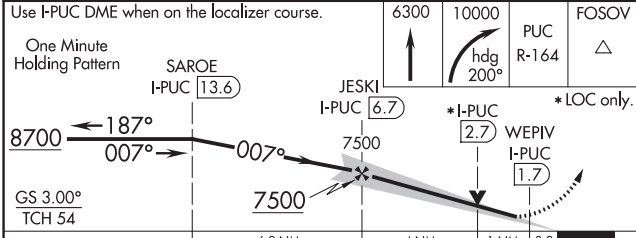
CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

<p>NA Night Landing: Rwy 15, 33 NA. DME Required. For inoperative MALSF increase S-LOC 1 Cat D visibility to 1. ** Missed approach requires a minimum climb of 339 feet per NM to 7100.</p>	<p>MALSF</p>	<p>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.</p>
--	---------------------	---

ASOS 135.425	SALT LAKE CENTER 133.9 370.85	UNICOM 122.8 (CTAF) 0
------------------------	---	---------------------------------



DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 1**		6063-3/4	200 (200-3/4)	
S-ILS 1		6128-3/4	265 (200-3/4)	
S-LOC 1		6240-3/4	377 (300-3/4)	
CIRCLING	6660-1 703 (800-1)	6860-1 1/4 903 (1000-1 1/4)	7120-3 1163 (1200-3)	8460-3 2503 (2600-3)

ELEV 5957	TDZE 5863
-----------	-----------

MRL Rwy 15-33
HIRL Rwy 1-19
REIL Rwys 8 and 26

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

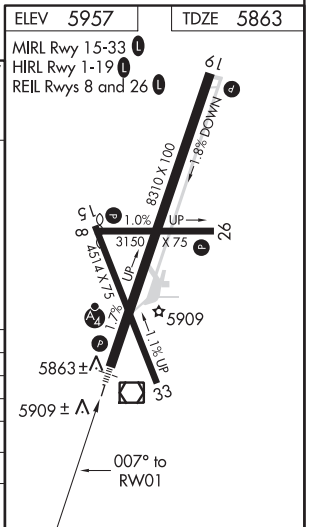
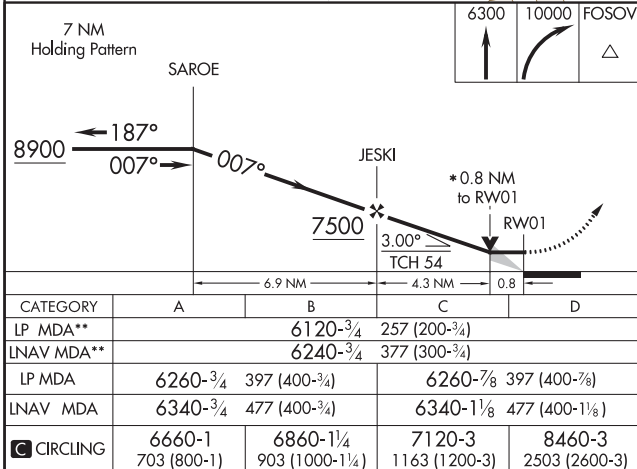
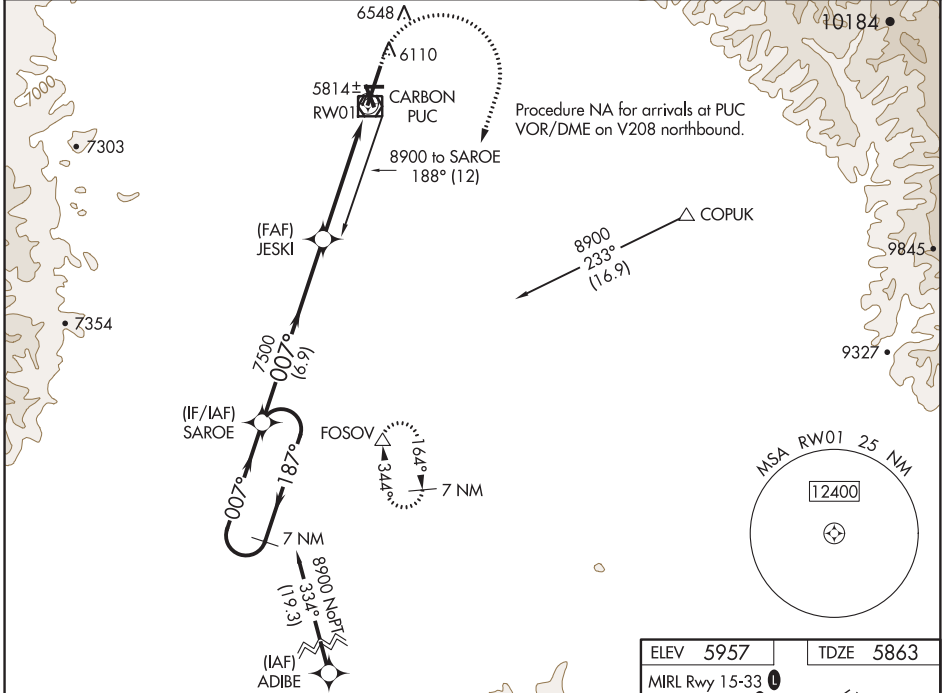
WAAS CH 78037 W01A	APP CRS 007°	Rwy Idg TDZE Apt Elev	8310 5863 5957
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 1

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

<p>▼ DME/DME RNP-0.3 NA. Night landing: Rwy 15, 33 NA. For inoperative MALSF increase LP and LNAV Cat D visibility 1/4 mile.</p> <p>▲ ** Missed approach requires a minimum climb of 249' per NM to 7100.</p>	<p>MALSF</p>	<p>MISSED APPROACH: Climb to 6300 then climbing right turn to 10000 direct FOSOV and hold, continue climb-in-hold to 10000.</p>
---	--------------	---

<p>ASOS 135.425</p>	<p>SALT LAKE CENTER 133.9 370.85</p>	<p>UNICOM 122.8 (CTAF)</p>
--------------------------------	---	---------------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 1

PRICE, UTAH

AL-681 (FAA)

16259

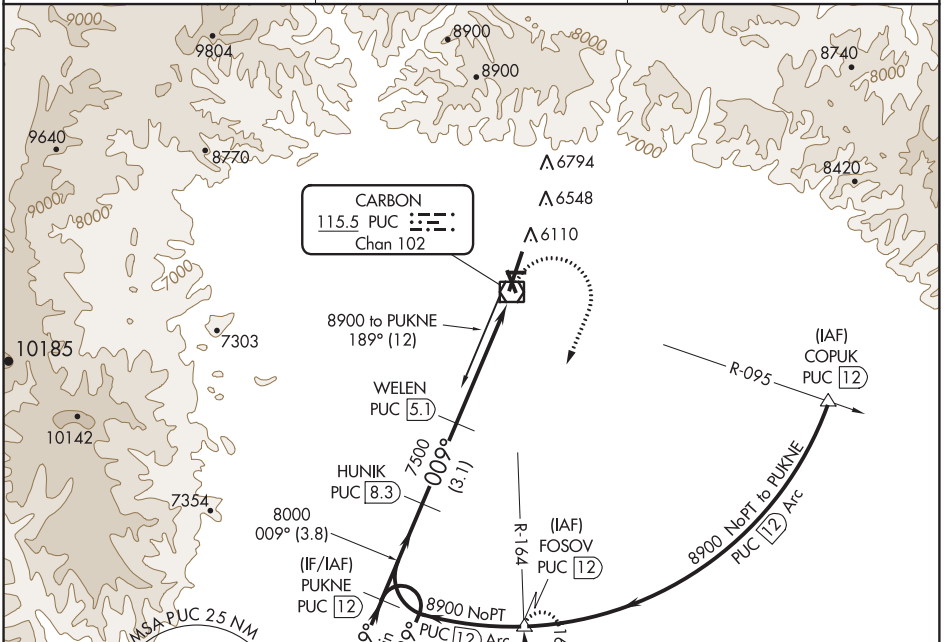
VOR/DME PUC 115.5 Chan 102	APP CRS 009°	Rwy Idg TDZE Apt Elev 8310 5863 5957
--	------------------------	--

VOR/DME RWY 1

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)

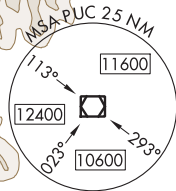
<p>N Night Landing: Rwy 15, 33 NA. For inoperative</p> <p>M MALSF, increase S-1 Cat D visibility to 1/4.</p>	<p>MALSF</p>	<p>MISSED APPROACH: Climbing right turn to 10000 on heading 200° and on PUC VOR/DME R-164 to FOSOV/PUC 12 DME and hold, continue climb-in hold to 10000.</p>
--	--------------	--

ASOS 135.425	SALT LAKE CENTER 133.9 370.85	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------

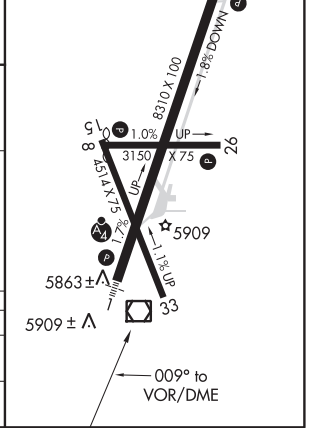
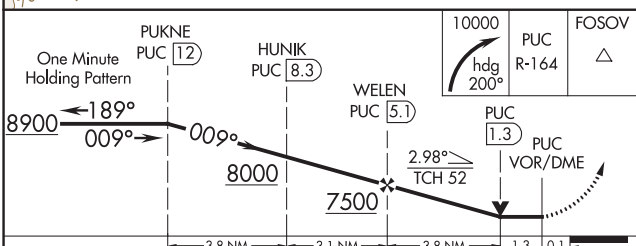


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 5957	TDZE 5863
MIRL Rwy 15-33	
HIRL Rwy 1-19	
REIL Rwys 8 and 26	



CATEGORY	A	B	C	D
S-1	6300-3/4	437 (400-3/4)	6300-1	437 (400-1)
C CIRCLING	6660-1 703 (800-1)	6860-1 1/4 903 (1000-1 1/4)	7120-3 1163 (1200-3)	8460-3 2503 (2600-3)

PRICE, UTAH
Amdt 1 05MAR15

CARBON COUNTY RGNL/BUCK DAVIS FIELD (PUC)
39°37'N-110°45'W
VOR/DME RWY 1

LOC/DME I-PVU 110.3 Chan 40	APP CRS 134°	Rwy Idg TDZE Apt Elev	8599 4497 4497
--	------------------------	-----------------------------	---

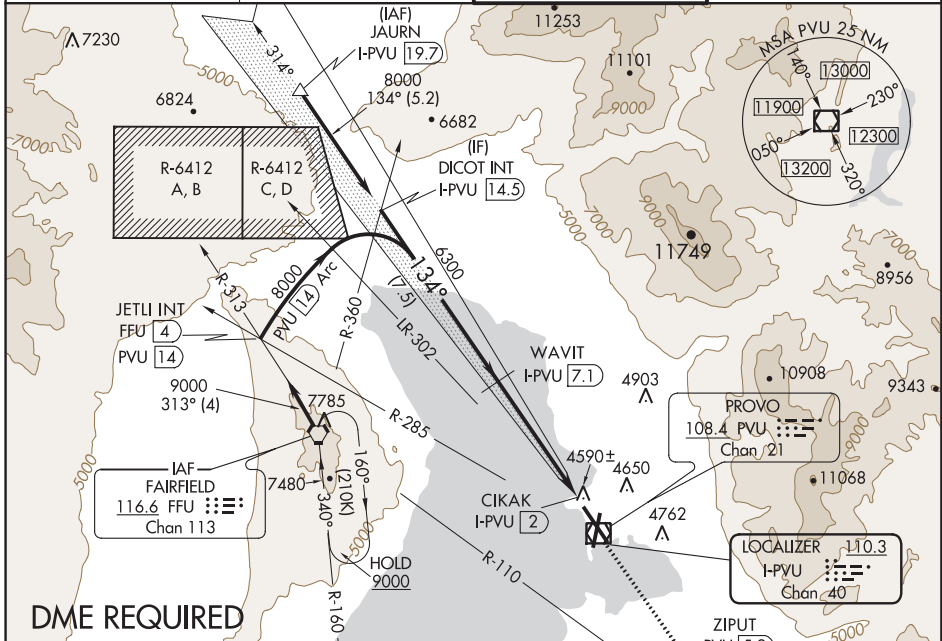
ILS or LOC/DME RWY 13

PROVO MUNI (PVU)

⚠ Circling NA east of Rwy 18 and 31.
⚠ *Missed approach requires minimum climb of 315 feet per NM to 8600.

MISSED APPROACH: Climb to 9000 on heading 134° to intercept PVU VOR/DME R-130 to ZIPUT/PVU 5.9 DME then climbing right turn on heading 330° and on FFU VORTAC R-110 to FFU VORTAC and hold.

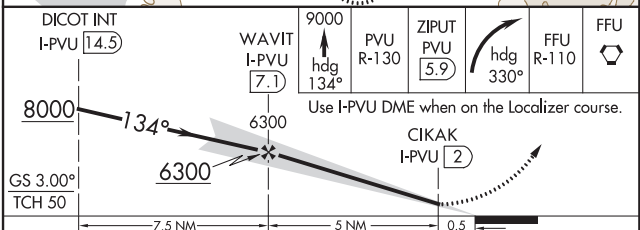
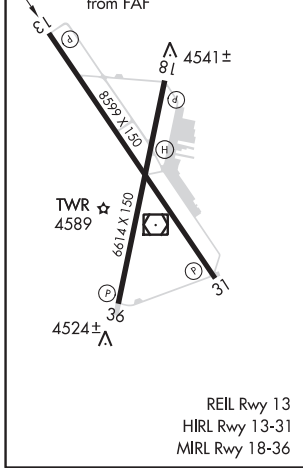
ATIS 135.175	SALT LAKE CITY APP CON 118.85 233.7	PROVO TOWER 125.3 (CTAF)	GND CON 119.4
------------------------	---	------------------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4497	D	TDZE 4497
-----------	----------	-----------



CATEGORY	A	B	C	D
S-ILS 13*	4697-¾ 200 (200-¾)			
S-LOC 13*	4820-1 323 (400-1)			
CIRCLING*	4940-1 443 (500-1)	4960-1 463 (500-1)	4980-1½ 483 (500-1½)	5060-2 563 (600-2)
S-ILS 13	4947-1½ 450 (500-1½)			
S-LOC 13	5100-1	603 (700-1)	5100-1¾	603 (700-1¾)
CIRCLING	5100-1	603 (700-1)	5100-1¾ 603 (700-1¾)	5100-2 603 (700-2)

WAAS CH 97307 W13A	APP CRS 134°	Rwy Idg TDZE Apt Elev	8599 4497 4497
--	------------------------	-----------------------------	---

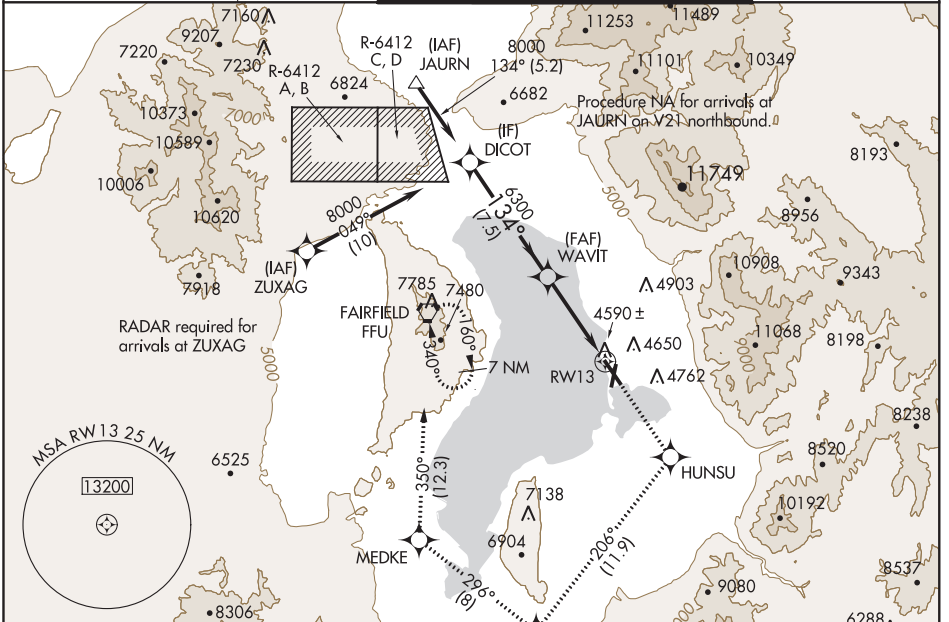
RNAV (GPS) RWY 13

PROVO MUNI (PVU)

⚠ 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 Rwy 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.

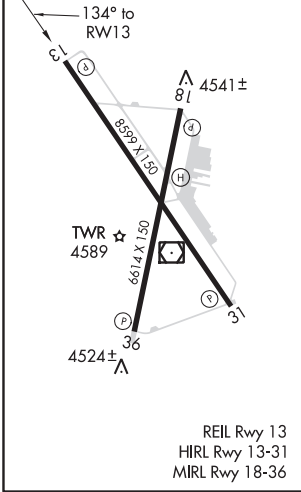
ATIS 135.175	SALT LAKE CITY APP CON 118.85 233.7	PROVO TOWER * 125.3 (CTAF)	GND CON 119.4
------------------------	---	--------------------------------------	-------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4497	D	TDZE 4497
-----------	----------	-----------



DICOT	9000 HUNSU	SANNO	MEDKE	FFU
↑	tr 206°	tr 296°	tr 350°	
8000	6300	*1.6 NM to RWY 13		
GP 3.00°	6300	RWY 13		
TCH 50	7.5 NM	3.9 NM	1.6 NM	
CATEGORY	A	B	C	D
LPV DA		4697-3/4	200 (200-3/4)	
LNAV/VNAV DA		4940-1 1/2	443 (500-1 1/2)	
LNAV MDA	5040-1	543 (600-1)	5040-1 5/8	543 (600-1 1/2)
CIRCLING	5040-1	543 (600-1)	5040-1 5/8	5060-2
			543 (600-1 1/2)	563 (600-2)

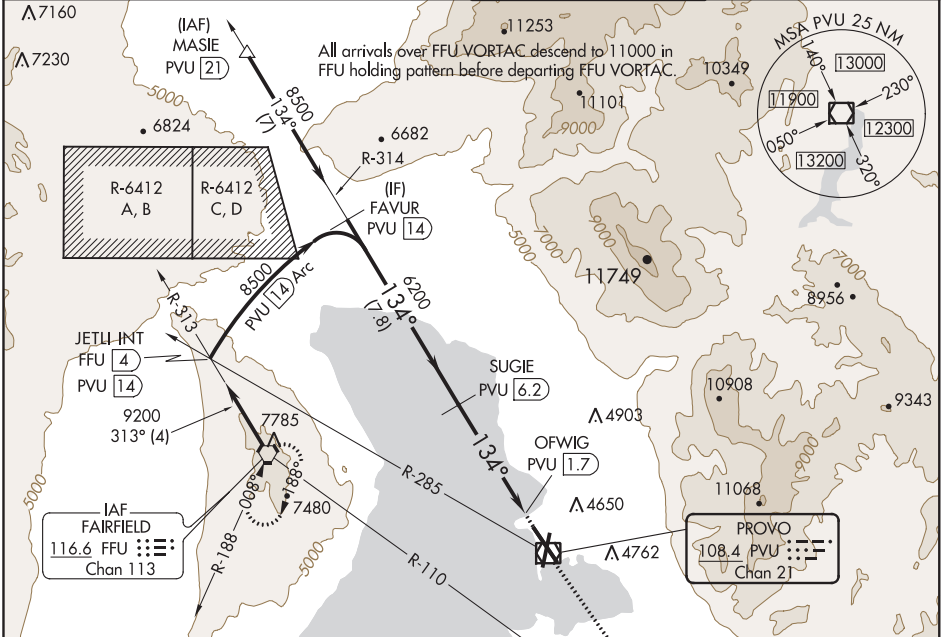
VOR/DME PVU 108.4 Chan 21	APP CRS 134°	Rwy Idg TDZE Apt Elev	8599 4497 4497
--	------------------------	-----------------------------	---

VOR/DME RWY 13

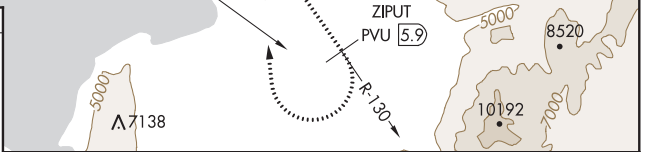
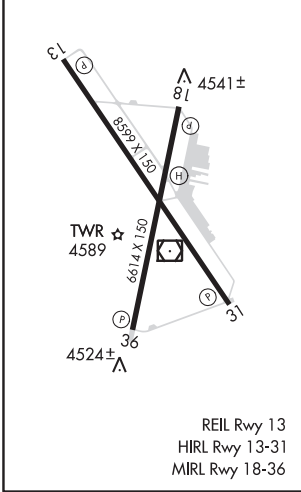
PROVO MUNI (PVU)

▼ Circling NA east of Rwy 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 135.175	SALT LAKE CITY APP CON 118.85 233.7	PROVO TOWER ★ 125.3 (CTAF)	GND CON 119.4
------------------------	---	--------------------------------------	-------------------------



ELEV 4497	D	TDZE 4497
-----------	----------	-----------



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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

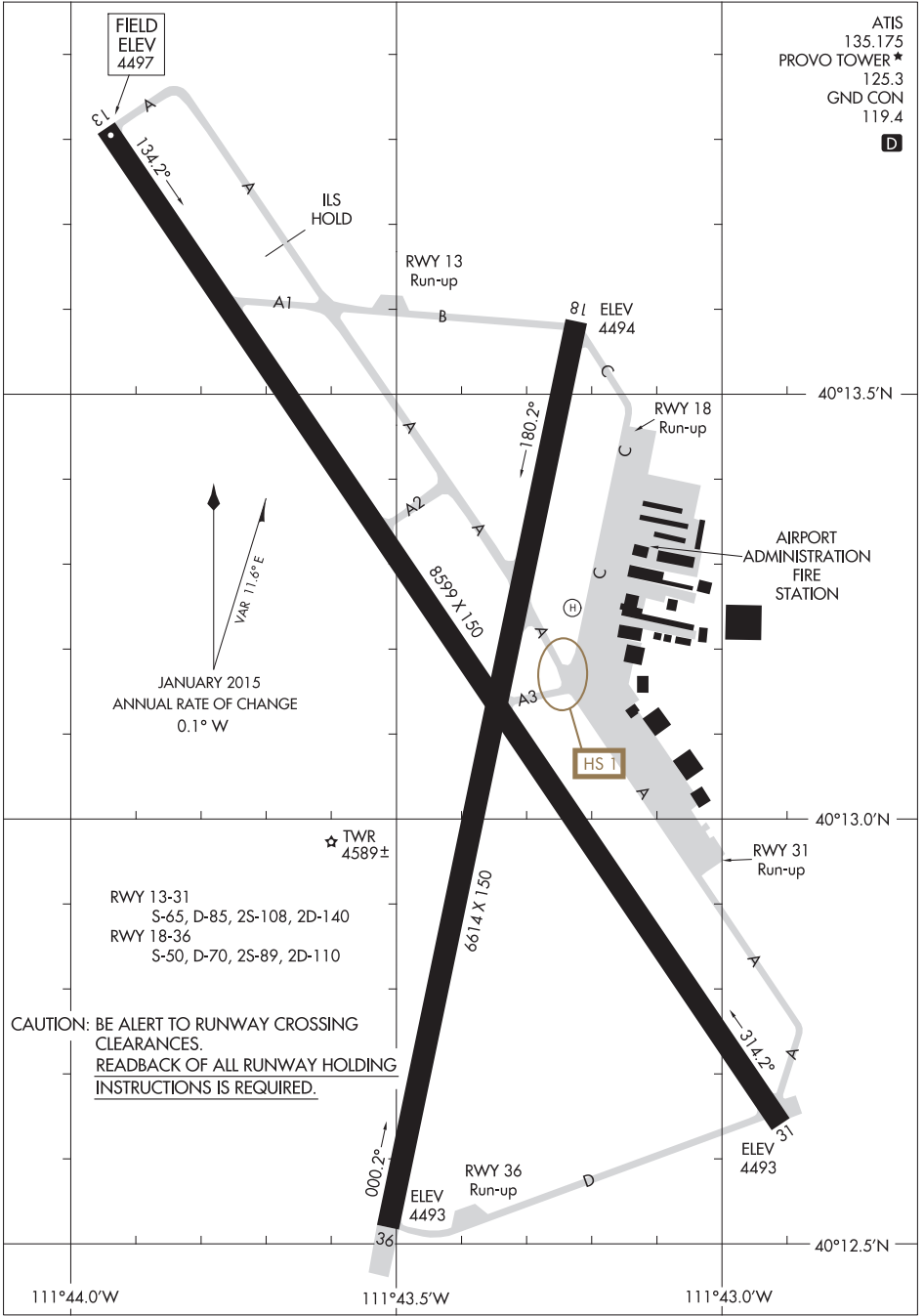
AIRPORT DIAGRAM

AL-683 (FAA)

PROVO MUNI (PVU)
PROVO, UTAH

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ATIS 135.175
 PROVO TOWER * 125.3
 GND CON 119.4
D

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

AIRPORT DIAGRAM

PROVO, UTAH
PROVO MUNI (PVU)

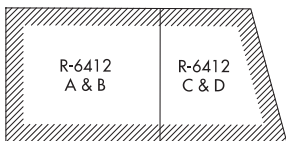
PROVO FOUR DEPARTURE (OBSTACLE)

ATIS 135.175
GND CON 119.4
PROVO TOWER *
125.3 (CTAF)
SALT LAKE CITY DEP CON
118.85 233.7

TAKEOFF MINIMUMS

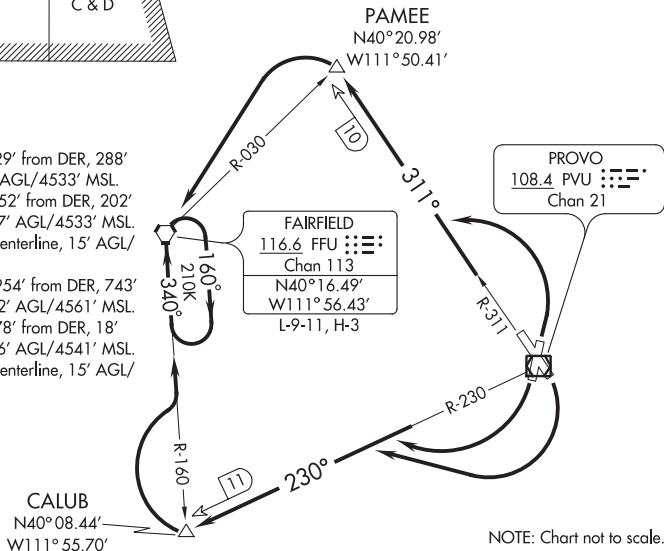
- Rwy 13: Standard with a minimum climb of 400' per NM to 9000, or 3100-3 for climb in visual conditions.
- Rwy 18: Standard with a minimum climb of 350' per NM to 9000, or 3100-3 for climb in visual conditions.
- Rwy 31: Standard with a minimum climb of 380' per NM to 9000, or 3100-3 for climb in visual 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.



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.

PROVO FOUR DEPARTURE (OBSTACLE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-RTS 111.9 Chan 56	APP CRS 318°	Rwy Idg TDZE Apl Elev	7800 5045 5050
--	------------------------	-----------------------------	---

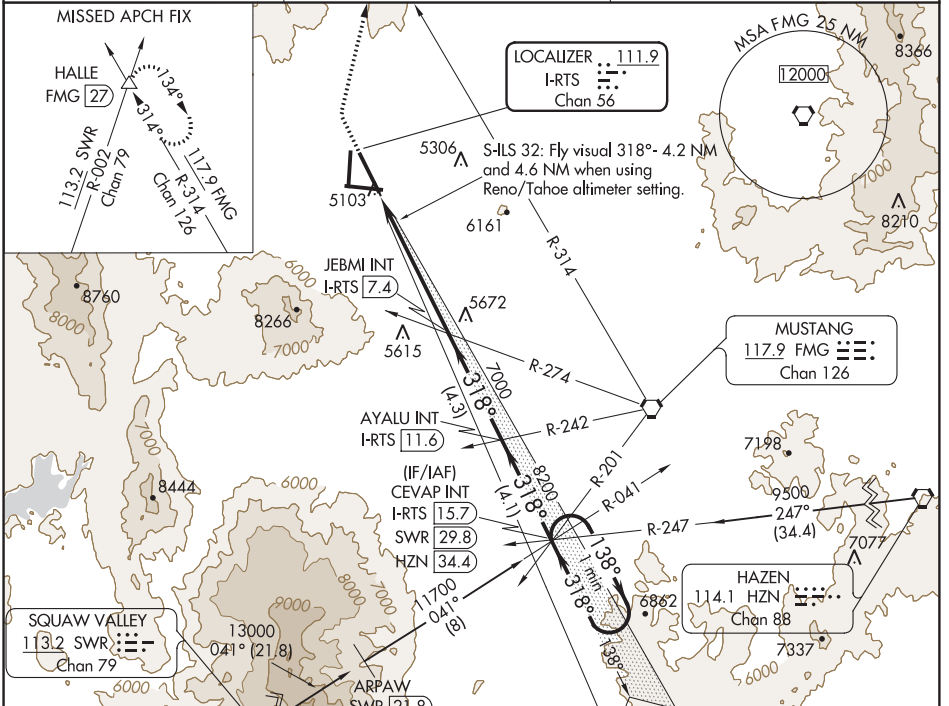
ILS or LOC/DME RWY 32

RENO/STEAD (RTS)

NA
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.

MALSR
MISSED APPROACH: Climb to 6740 then climbing right turn to 14000 via heading 356° and FMG VORTAC R-314 to HALLE INT/FMG 27 DME and hold, continue climb-in-hold to 14000.

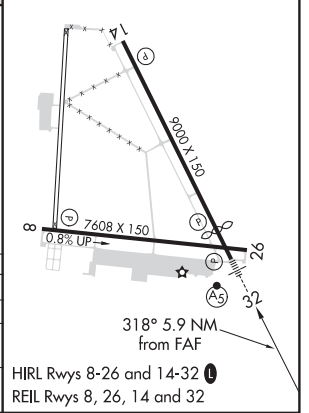
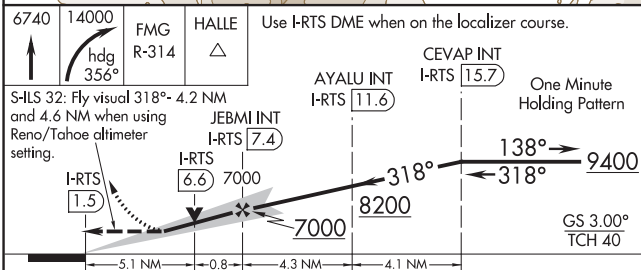
AWOS-3 135.175	NORCAL APP CON 126.3 353.9	UNICOM 122.7 (CTAF)
--------------------------	--------------------------------------	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5050	TDZE 5045
-----------	-----------



CATEGORY	A	B	C	D
S-ILS 32	6425-3 1380 (1400-3)			
S-LOC 32	6720-1½ 1675 (1700-1½)	6720-1½ 1675 (1700-1½)	6720-3	1675 (1700-3)
CIRCLING	6720-1½ 1670 (1700-1½)	6720-1½ 1670 (1700-1½)	6720-3	1670 (1700-3)

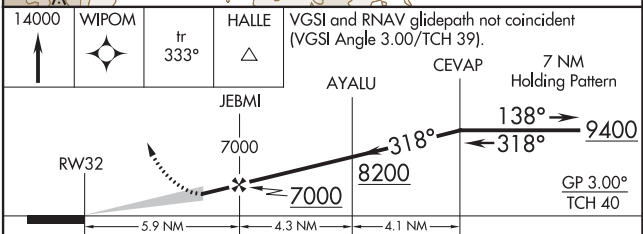
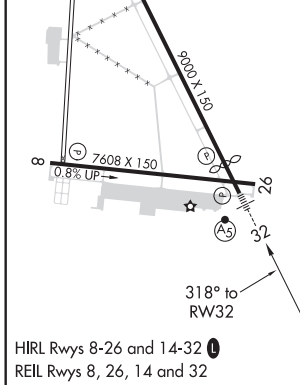
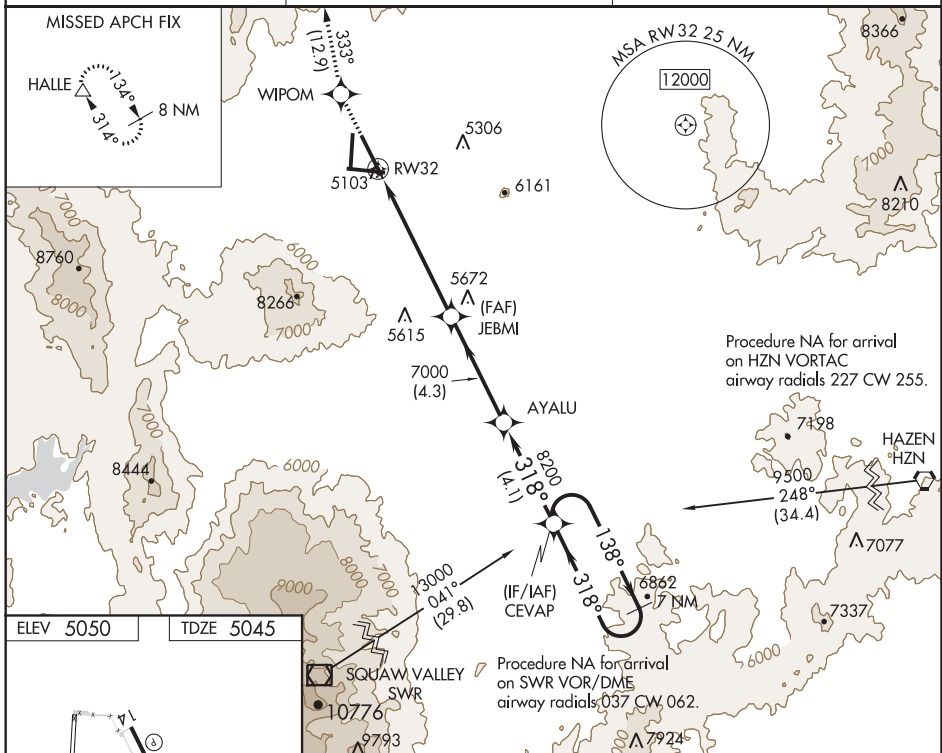
WAAS CH 60920 W32A	APP CRS 318°	Rwy Idg TDZE Apt Elev	7800 5045 5050
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 32

RENO/STEAD (RTS)

<p>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.</p>	<p>MALSR AS</p>	<p>MISSED APPROACH: Climb to 14000 direct WIPOM and on track 333° to HALLE and hold, continue climb-in-hold to 14000.</p>
--	---------------------	---

AWOS-3 135.175	NORCAL APP CON 126.3 353.9	UNICOM 122.7 (CTAF)
--------------------------	--------------------------------------	-------------------------------



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)	
CIRCLING	6840-1¼ 1790 (1800-1¼)	6840-1½ 1790 (1800-1½)	6840-3 1790 (1800-3)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

RENO/STEAD (RTS)
RENO, NEVADA

AL-524 (FAA)

ASOS-3
135.175
CTAF/UNICOM
122.7



ELEV
4992

ELEV
5044

JANUARY 2015
ANNUAL RATE OF CHANGE
0.1°W

VAR 13.8° E

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV
4992

8

A4

A

A3

A

A

A

A

A

A

A

A

A

A

A

A

A

A

082.1°

0.8% UP

7608 X 150

A2

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

71

B4

B

B3

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

139.8°

900 X 150

B2

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

319.8°

26

A1

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

262.1°

32

A

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

B

ELEV
5044

TERMINAL

FBO

ELEV
5044

26

A

B

B

B

B

B

B

B

B

B

B

B

B

B

RWY 08-26
S-60, D-90, S2-114
RWY 14-32
S-65, D-85, 2S-108, 2D-120

119°53'W

119°52'W

39°39'N

39°40'N

39°41'N

AIRPORT DIAGRAM

16259

RENO, NEVADA
RENO/STEAD (RTS)

LOC/DME I-AGY 109.9 Chan 36	APP CRS 344°	Rwy Idg 10011 TDZE 4410 Apt Elev 4415
---	------------------------	--

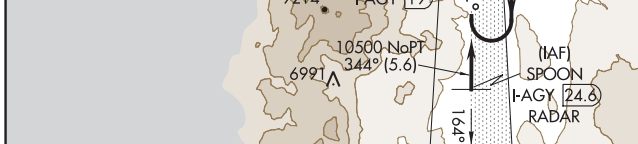
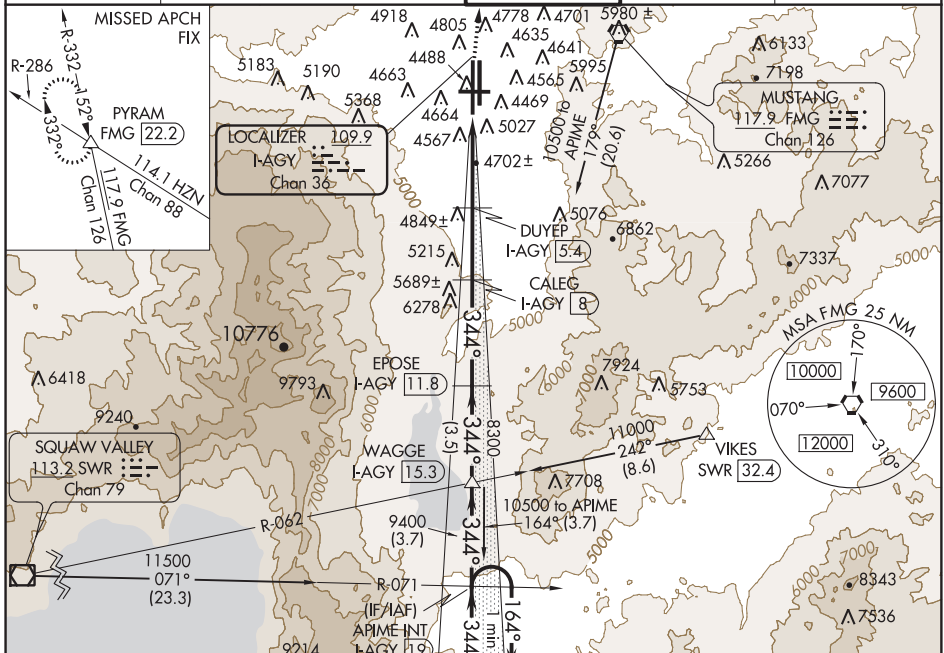
ILS or LOC/DME RWY 34L

RENO/TAHOE INTL (RNO)

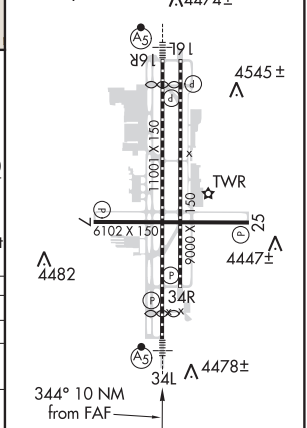
⚠ Inoperative table does not apply.
If local altimeter setting not received, procedure NA.
⚠ -18°C/0°F

MALSR 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.

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 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		
A4474±		



11000 ↑ hdg 350°	FMG R-332	PYRAM △	WAGGE I-AGY 15.3	APIME INT I-AGY 19	One Minute Holding Pattern
DUYEP I-AGY 5.4, CALEG I-AGY 8, I-AGY 3.8, 5800, 8300, 9400, 10500, GS 3.54°, TCH 45°, VGSi and ILS glidepath not coincident (VGSi Angle 3.54/TCH 72°).					
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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RENO, NEVADA

AL-346 (FAA)


16203

LOC/DME I-RNO 110.9 Chan 46	APP CRS 164°	Rwy Idg TDZE Apt Elev	10001 4415 4415
---	------------------------	-----------------------------	--

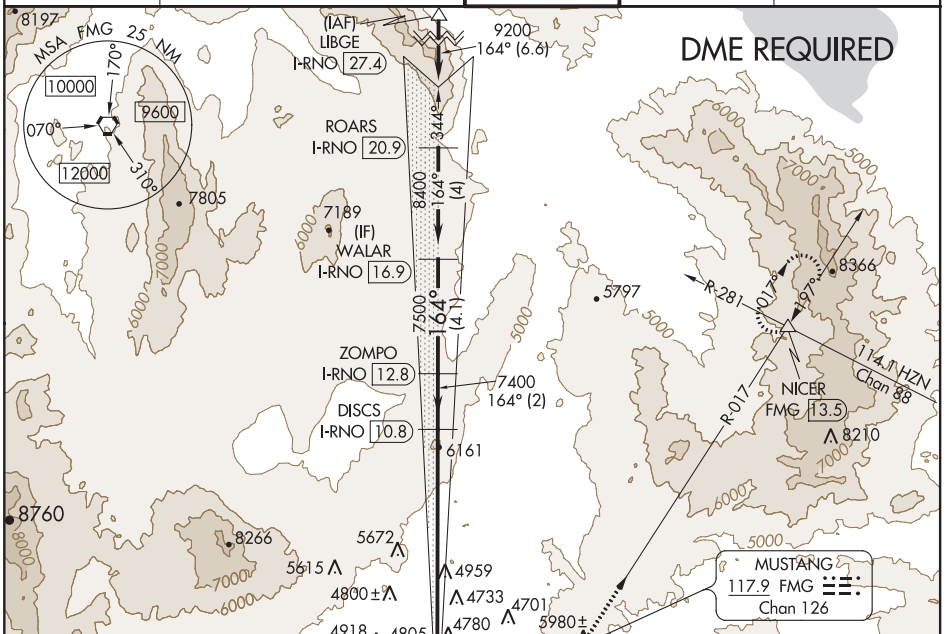
ILS Y RWY 16R

RENO/TAHOE INTL (RNO)

Inop table does not apply.
 † For inop MALS, increase
 * -18°C/0°F S-ILS R16R all Cats
 visibility to 1 1/2 mile.

MALS  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.

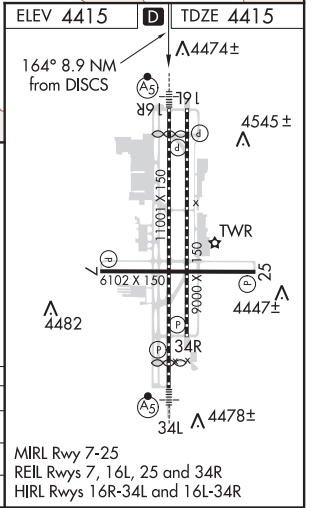
ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



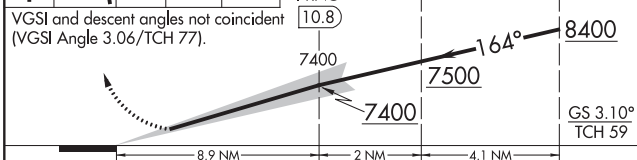
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4415	TDZE 4415
164° 8.9 NM from DISCS	4474±
	4545±
	4447±
	4478±



6300	11000	FMG	NICER	ZOMPO	WALAR
		R-017	△	I-RNO 12.8	I-RNO 16.9
				DISCS	
				I-RNO 10.8	



CATEGORY	A	B	C	D	E
S-ILS 16R *†		4915/60	500 (500-1 1/4)		
S-ILS 16R **#		5415-4	1000 (1000-4)		
S-ILS 16R #		5915-6	1500 (1500-6)		

RENO, NEVADA
 Orig 26MAY16

39°30'N-119°46'W

RENO/TAHOE INTL (RNO)
ILS Y RWY 16R

MIRL Rwy 7-25
 REIL Rwy 7, 16L, 25 and 34R
 HIRL Rwy 16R-34L and 16L-34R

RNAV (RNP) Y RWY 16L

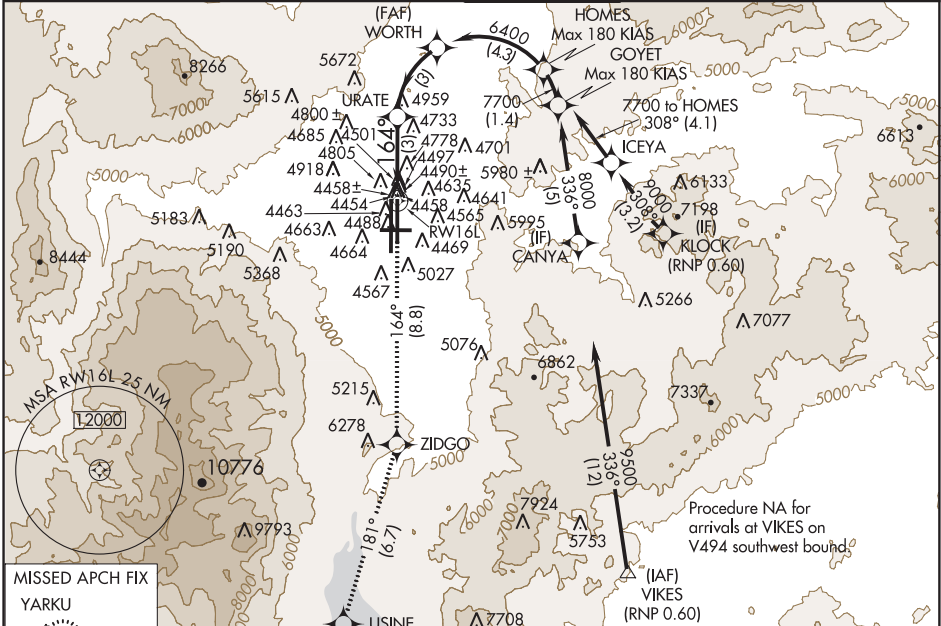
RENO/TAHOE INTL (RNO)

APP CRS	Rwy Idg	9000
164°	TDZE	4415
	Apt Elev	4415

For uncompensated Baro-VNAV systems, procedure NA below -1.4°C (7°F) or above 44°C (111°F). Procedure NA at night.
 RF Required. GPS Required. *Missed approach requires a minimum climb of 252 feet per NM to 7200.

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.

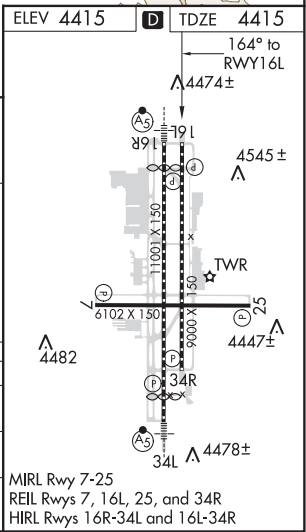
ATIS	NORCAL APP CON	RENO TOWER	GNDB CON	CLNC DEL
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4415	TDZE 4415		
164° to RWY16L			
See planview for multiple IF locations.			
HOMES	ZIDGO tr 181°	USINE tr 124°	YARKU
7700	6400	5445	
GP 3.00° TCH 75		RWY16L	
4.3 NM		3 NM	
CATEGORY	A	B	D
RNP 0.12 DA*	4792-1½ 377 (400-1½)		
RNP 0.30 DA	5127-2½ 712 (800-2½)		
AUTHORIZATION REQUIRED			



MIRL Rwy 7-25
 REIL Rwys 7, 16L, 25, and 34R
 HIRL Rwys 16R-34L and 16L-34R

APP CRS	Rwy Idg	10001
164°	TDZE	4415
	Apt Elev	4415

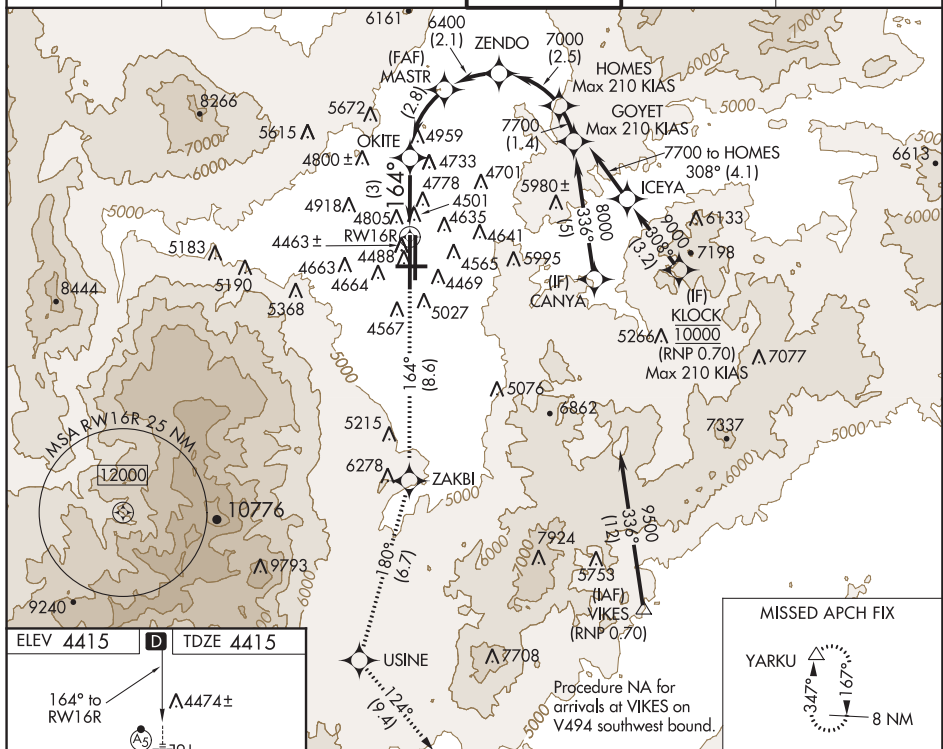
RNAV (RNP) Y RWY 16R

RENO/TAHOE INTL (RNO)

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 1½ 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.

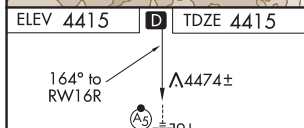
MALSR
MISSED APPROACH: Climb to 13000 on track 164° to ZAKBI and on track 180° to USINE and on track 124° to YARKU and hold, continue climb-in-hold to 13000.

ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85

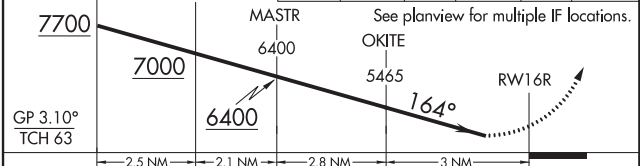


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



VGSI and RNAV glidepath not coincident (VGSI Angle 3.06/TCH 77).	13000	ZAKBI	USINE	YARKU
	↑ tr 164°	✦ tr 180°	✦ tr 124°	△



CATEGORY	A	B	C	D
RNP 0.17 DA*		4817/40	402 (500-¾)	
RNP 0.30 DA		5132-1½	717 (800-1½)	

AUTHORIZATION REQUIRED

RNAV (RNP) Z RWY 16L

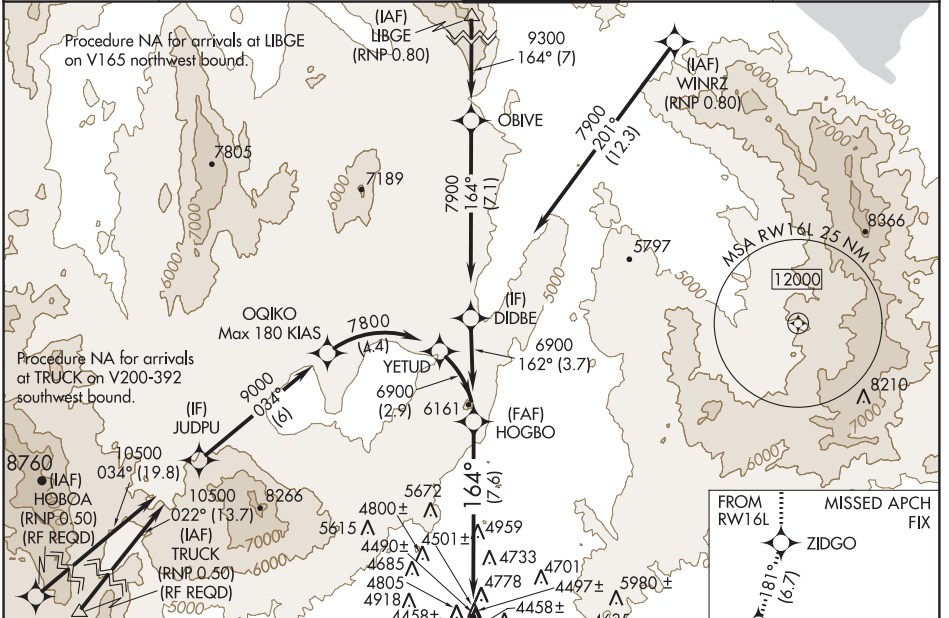
RENO/TAHOE INTL (RNO)

APP CRS	Rwy Idg	9000
164°	TDZE	4415
	Apt Elev	4415

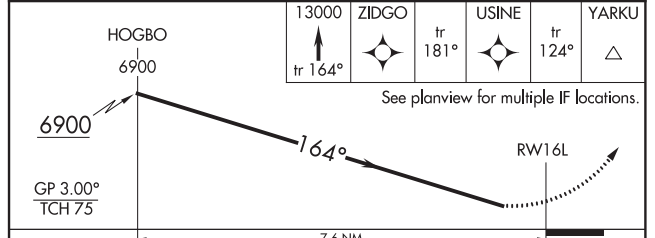
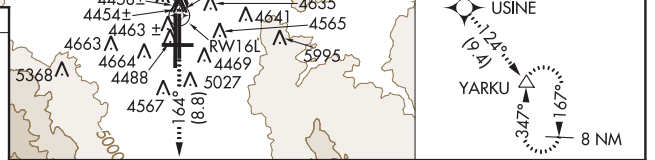
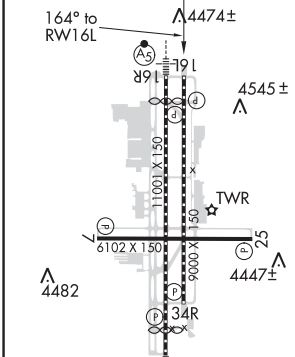
For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). When VGSI inop, procedure NA at night. GPS required. *Missed approach requires a minimum climb of 259 feet per NM to 7000.

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.

ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL
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	TDZE	4415
------	-------------	------	-------------



CATEGORY	A	B	C	D
RNP 0.12 DA*	4796-1 1/8	381 (400-1 1/8)		NA
RNP 0.30 DA	5133-2 1/2	718 (800-2 1/2)		NA

AUTHORIZATION REQUIRED

SW-4, 10 NOV 2016 to 05 JAN 2017


SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 16R

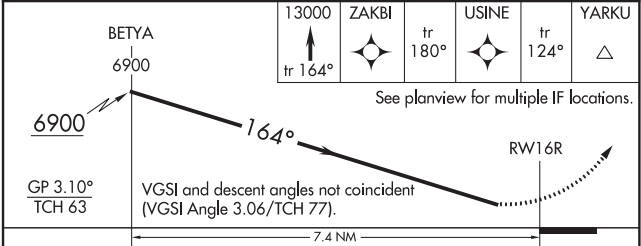
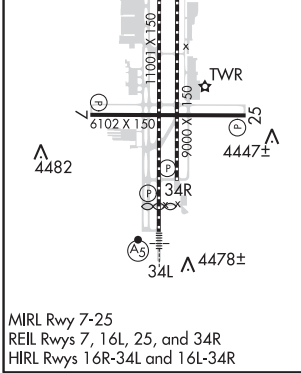
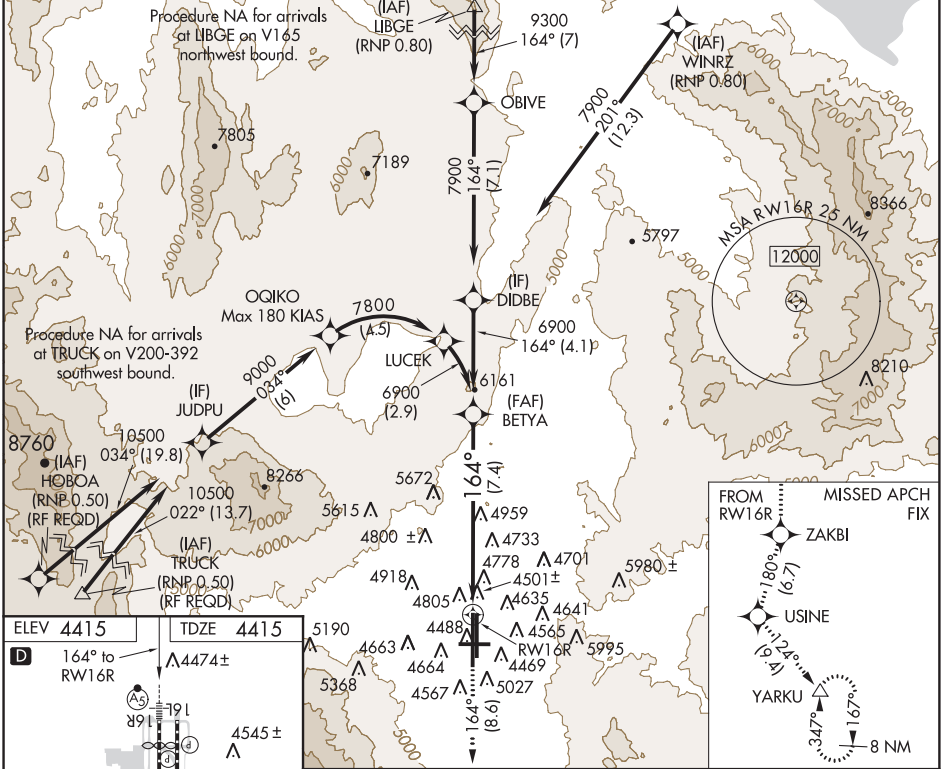
RENO/TAHOE INTL (RNO)

APP CRS	Rwy Idg	10001
164°	TDZE	4415
	Apt Elev	4415

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). For inoperative MALS/R, increase RNP 0.17 all Cats visibility to 1½ and RNP 0.30 all Cats visibility to 2½. GPS required. *Missed approach requires a minimum climb of 260 feet per NM to 7000.

MALS/R
 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.

ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85



	BETYA 6900	13000 ZAKBI	tr 180°	USINE	tr 124°	YARKU
		tr 164°				

CATEGORY	A	B	C	D
RNP 0.17 DA*	4973-1½	558 (600-1½)		NA
RNP 0.30 DA	5142-1½	727 (800-1½)		NA

AUTHORIZATION REQUIRED

SW-4, 10 NOV 2016 to 05 JAN 2017


SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (RNP) Z RWY 34L

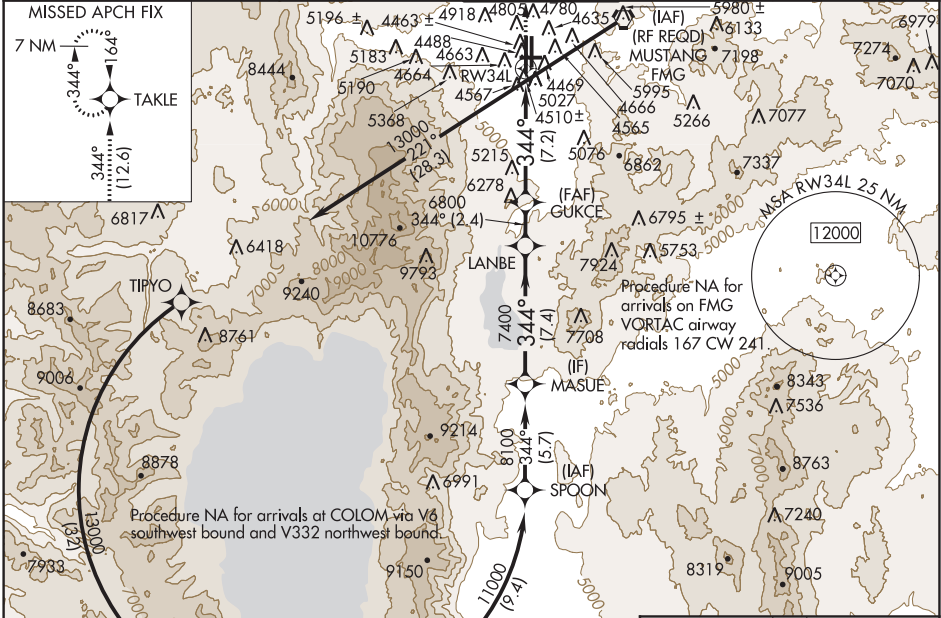
RENO/TAHOE INTL (RNO)

APP CRS	Rwy Idg	10011
344°	TDZE	4410
	Apt Elev	4415

▽ 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 1 1/4 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.

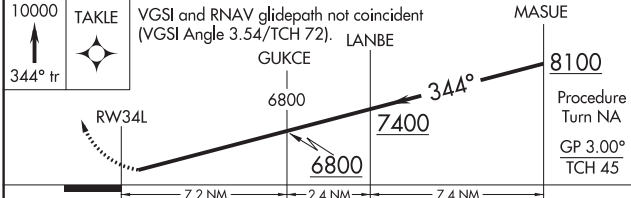
ATIS	NORCAL APP CON	RENO TOWER	GND CON	CLNC DEL
135.8 363.0	119.2 279.55 126.3 353.9	118.7 257.8	121.9 348.6	124.9 370.85



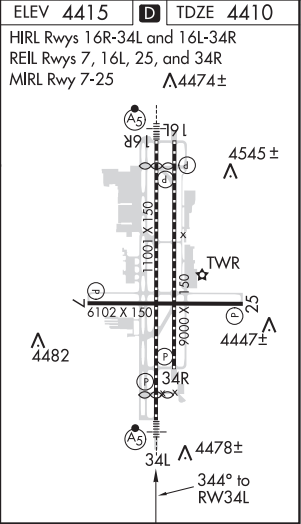
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4415	D TDZE 4410
HIRL Rwy 16R-34L and 16L-34R	
REIL Rwy 7, 16L, 25, and 34R	
MIRL Rwy 7-25 Δ 4474±	



CATEGORY	A	B	C	D
RNP 0.12 DA*	4771-1 361 (400-1)			
RNP 0.30 DA	5342-2 3/4 932 (1000-2 3/4)			



AUTHORIZATION REQUIRED

RNAV (RNP) Z RWY 34R

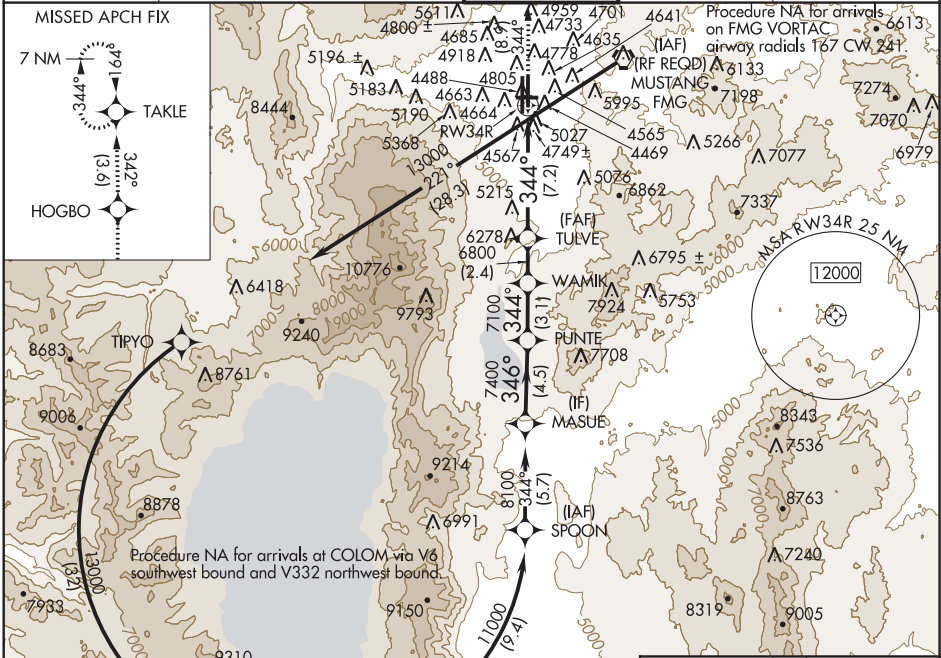
RENO/TAHOE INTL (RNO)

APP CRS 344°	Rwy Idg TDZE Apt Elev	9000 4408 4415
------------------------	-----------------------------	---

NA GPS required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (8°F) or above 40°C (105°F).
 -18°C/0°F

MISSED APPROACH: Climb to 10000 via 344° track to HOGBO and 342° track to TAKLE and hold, continue climb-in-hold to 10000.

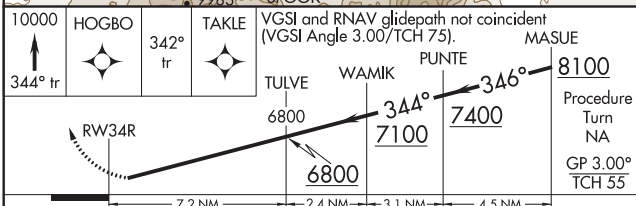
ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

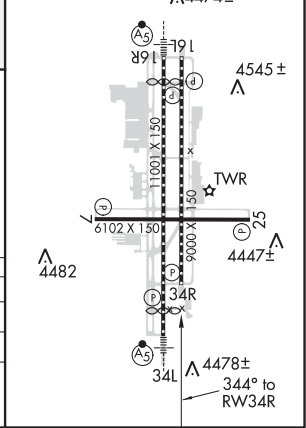
10000	HOGBO	TAKLE
344° tr	342° tr	



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 Rwy 16R-34L and 16L-34R
 REIL Rwy 7, 16L, 25, and 34R
 MIRL Rwy 7-25



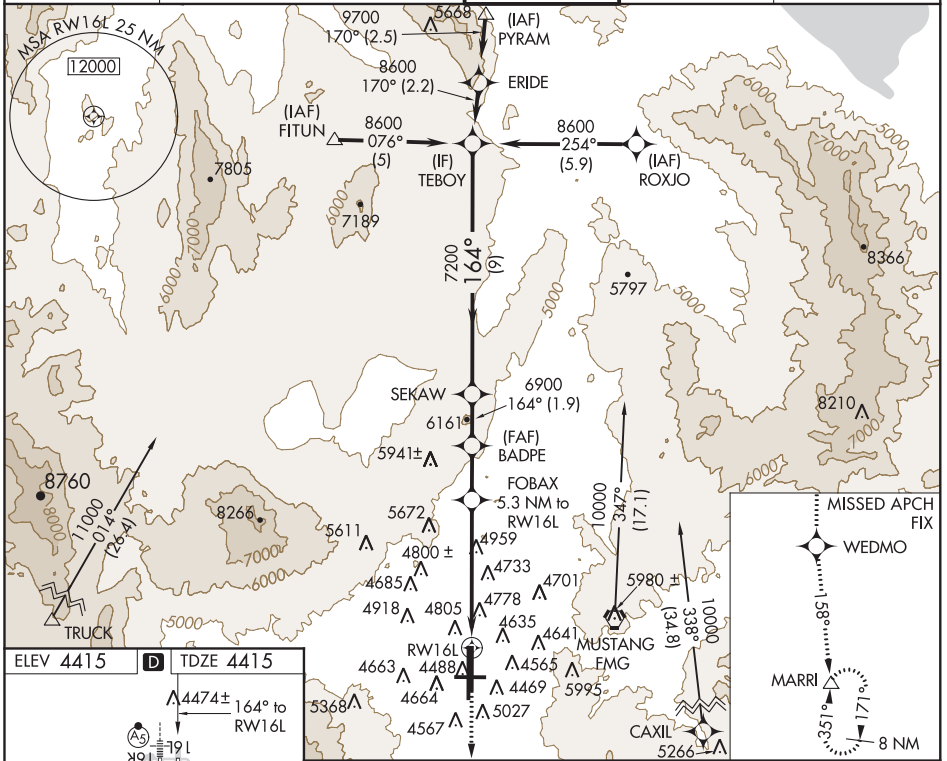
WAAS CH 72909 W16A	APP CRS 164°	Rwy Idg TDZE Apt Elev	9000 4415 4415
---------------------------------	------------------------	-----------------------------	---

RNAV (GPS) X RWY 16L

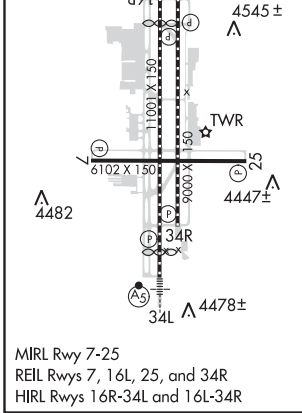
RENO/TAHOE INTL (RNO)

<p>V DME/DME RNP-0.3 NA. A Helicopter visibility reduction below ¾ SM NA. B -18°C/0°F Night landing: Rwy 7, 25 NA.</p>	<p>MISSED APPROACH: Climb to 13000 direct WEDMO and on track 158° to MARRI and hold.</p>
---	--

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



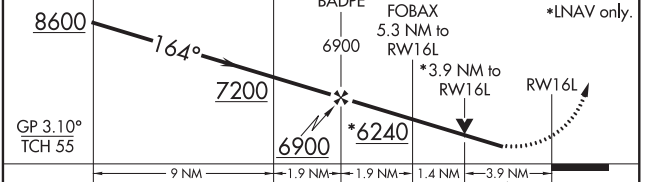
ELEV 4415	D	TDZE 4415
-----------	----------	-----------



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

13000	WEDMO	tr 158°	MARRI
-------	-------	---------	-------

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	5220-2¾ 805 (900-2¾)			
LNAV MDA	5720-1¼ 1305 (1400-1¼)	5720-1½ 1305 (1400-1½)	5720-3	1305 (1400-3)
CIRCLING	5720-1¼ 1305 (1400-1¼)	5720-1½ 1305 (1400-1½)	5720-3	1305 (1400-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RENO, NEVADA

AL-346 (FAA)

16203

WAAS CH 78309 W16B	APP CRS 164°	Rwy Idg TDZE 4415 Apt Elev 4415	10001 4415 4415
--	------------------------	---	--

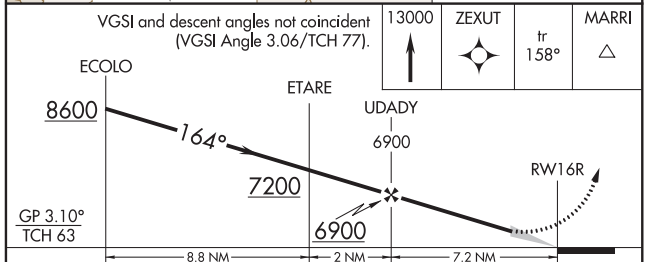
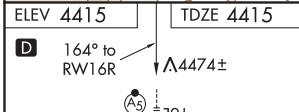
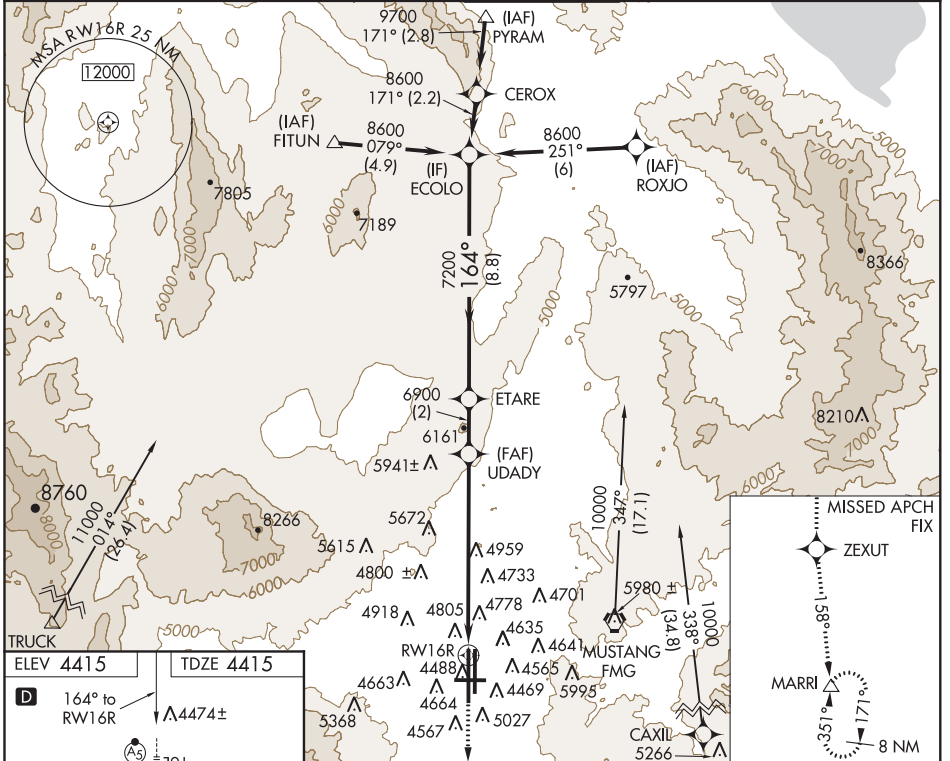
RNAV (GPS) X RWY 16R

RENO/TAHOE INTL (RNO)

⚠ Inoperative table does not apply to LNAV all Cats. For inoperative MALSR increase LPV all Cats visibility to 2 3/4.
❄ -18°C/0°F DME/DME RNP-0.3 NA. Night landing: Rwy 7, 25 NA.

MALSR MISSED APPROACH: Climb to 13000 direct ZEXUT and on track 158° to MARRI and hold.

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



CATEGORY	A	B	C	D
LPV DA	5239-2 1/4 824 (900-2 1/4)			
LNAV MDA	6200/60 1785 (1800-1 1/4)	6200-1 1/2 1785 (1800-1 1/2)	6200-3 1785 (1800-3)	1785 (1800-3)
CIRCLING	6200-1 1/4 1785 (1800-1 1/4)	6200-1 1/2 1785 (1800-1 1/2)	6200-3 1785 (1800-3)	1785 (1800-3)

MIRL Rwy 7-25
 REIL Rws 7, 16L, 25, and 34R
 HIRL Rws 16R-34L and 16L-34R

RENO, NEVADA
 Amdt 1C 23JUN16

39°30'N-119°46'W

RENO/TAHOE INTL (RNO)

RNAV (GPS) X RWY 16R

SW-4, 10 NOV 2016 to 05 JAN 2017


SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 344°	Rwy Idg 10011
	TDZE 4410
	Apt Elev 4415

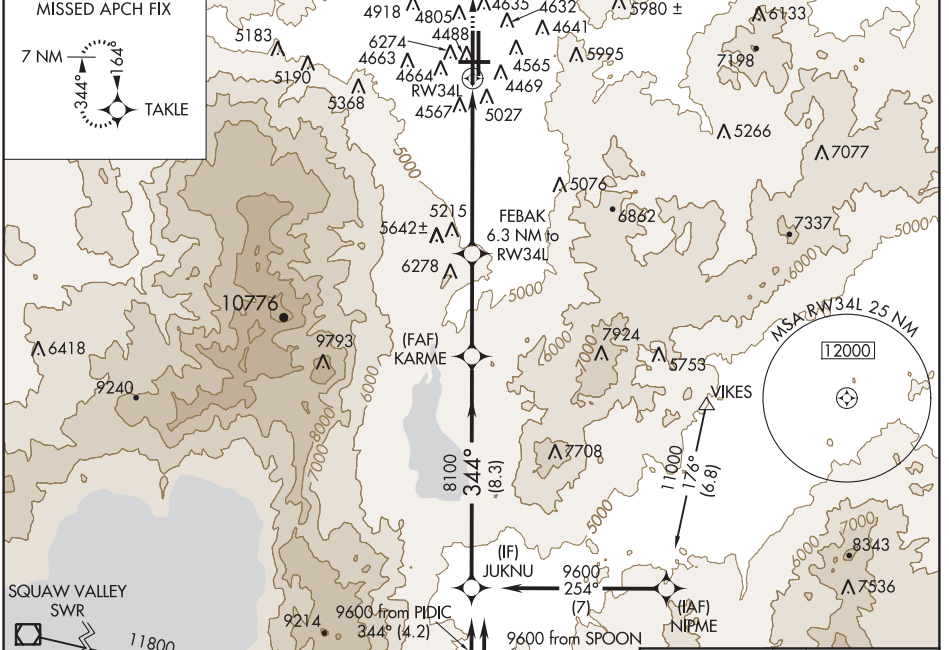
RNAV (GPS) X RWY 34L

RENO/TAHOE INTL (RNO)

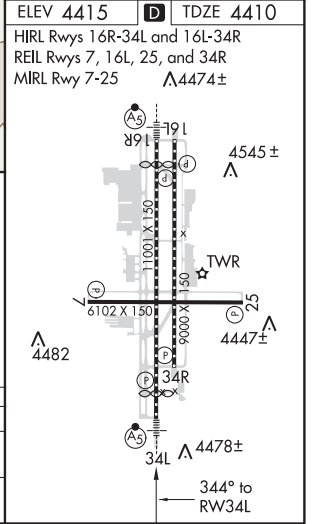
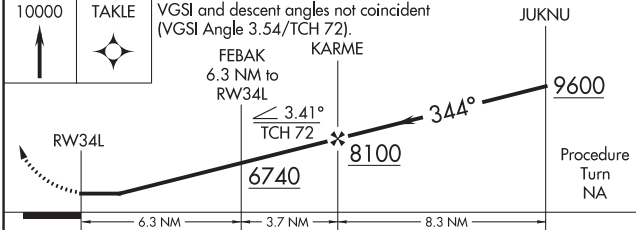
⚠ Circling to Rwy 7, 25 NA at night. DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA. For inoperative MALSR increase LNAV Cat A and B visibility to 1¼.
⚠ -18°C/0°F

MALSR  MISSED APPROACH: Climb to 10000 direct TAKLE and hold, continue climb-in-hold to 10000.

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 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 Δ 4474±



CATEGORY	A	B	C	D
LNAV MDA	5300-1 890 (900-1)	5300-2¼ 890 (900-2¼)	5300-2½ 890 (900-2½)	5300-3 925 (1000-3)
CIRCLING	5340-1¼ 925 (1000-1¼)	5340-2¾ 925 (1000-2¾)	5340-3 925 (1000-3)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

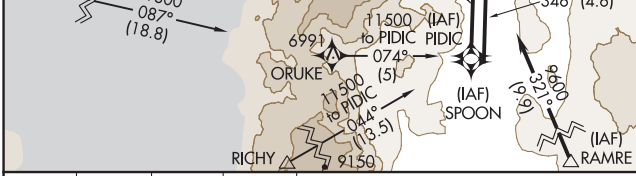
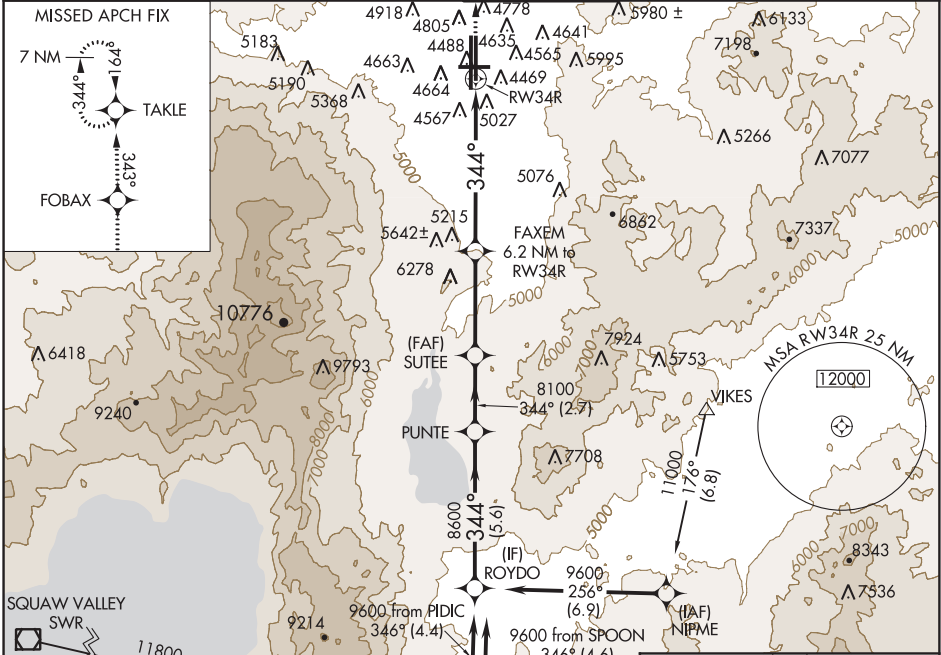
RNAV (GPS) X RWY 34R

RENO/TAHOE INTL (RNO)

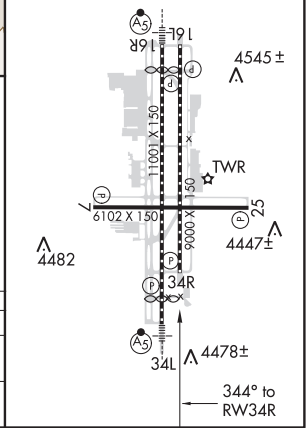
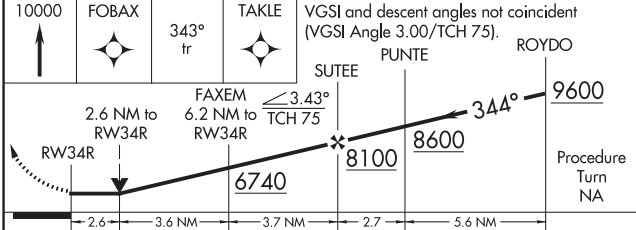
APP CRS 344°	Rwy Idg TDZE Apt Elev	9000 4408 4415
------------------------	-----------------------------	---

⚠ Circling to Rwy 7, 25 NA at night.
⚠ DME/DME RNP-0.3 NA.
⚠ -18°C/0°F Visibility reduction by helicopters NA.
⚠ MISSED APPROACH: Climb to 10000 direct FOBOX and via 343° track to TAKLE and hold, continue climb-in-hold to 10000.

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 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	
⚠ 4474±	



CATEGORY	A	B	C	D
LNVA MDA	5300-1¼ 892 (900-1¼)		5300-2¾ 892 (900-2¾)	5300-3 892 (900-3)
CIRCLING	5340-1¼ 925 (1000-1¼)		5340-2¾ 925 (1000-2¾)	5340-3 925 (1000-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

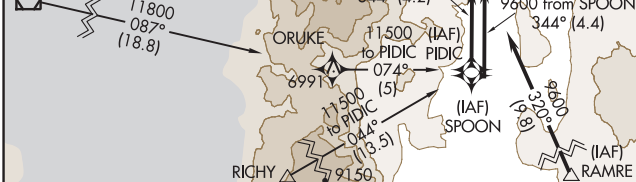
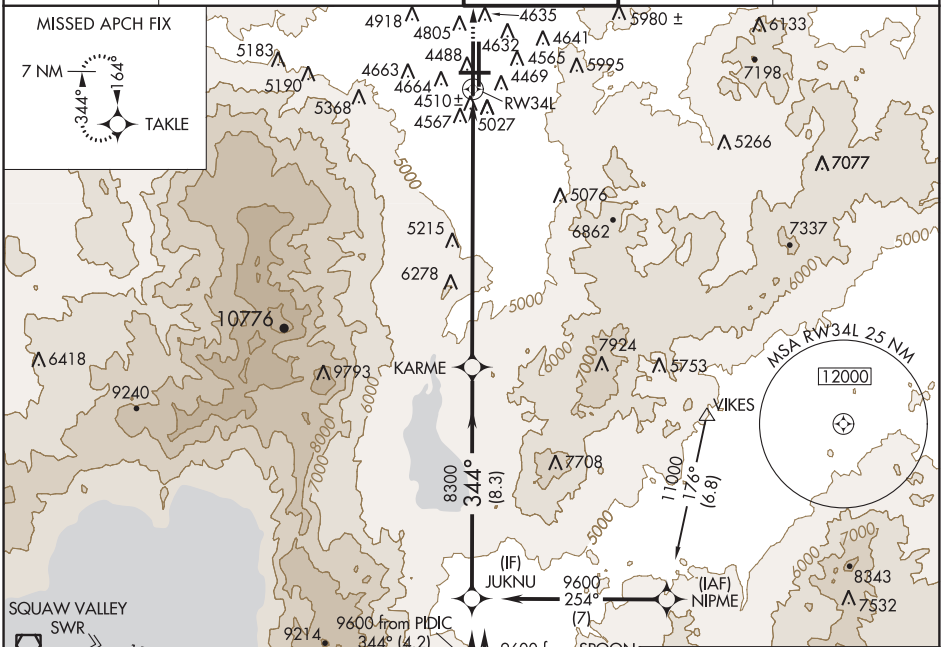
WAAS CH 82609 W34A	APP CRS 344°	Rwy Idg 10011 TDZE 4410 Apt Elev 4415
--	------------------------	--

RNAV (GPS) Y RWY 34L

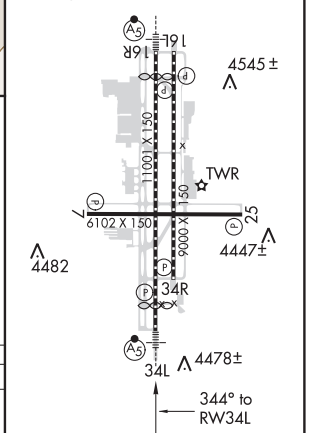
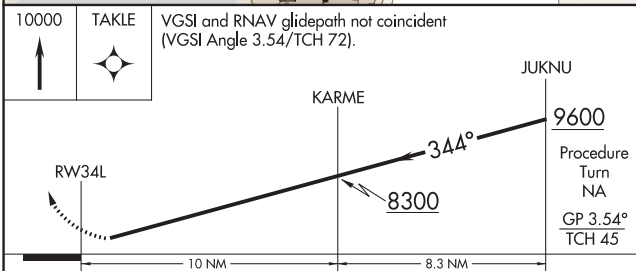
RENO/TAHOE INTL (RNO)

-18°C/0°F DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. 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.
--	-----------	---

ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



ELEV 4415	D TDZE 4410
HIRL Rwy 16R-34L and 16L-34R	
REIL Rwy 7, 16L, 25, and 34R	
MIRL Rwy 7-25	
Λ 4474±	



CATEGORY	A	B	C	D
LPV DA	5018-1¼ 608 (700-1¼)			NA

WAAS CH 40409 W34B	APP CRS 344°	Rwy Idg 9000 TDZE 4408 Apt Elev 4415
--	------------------------	---

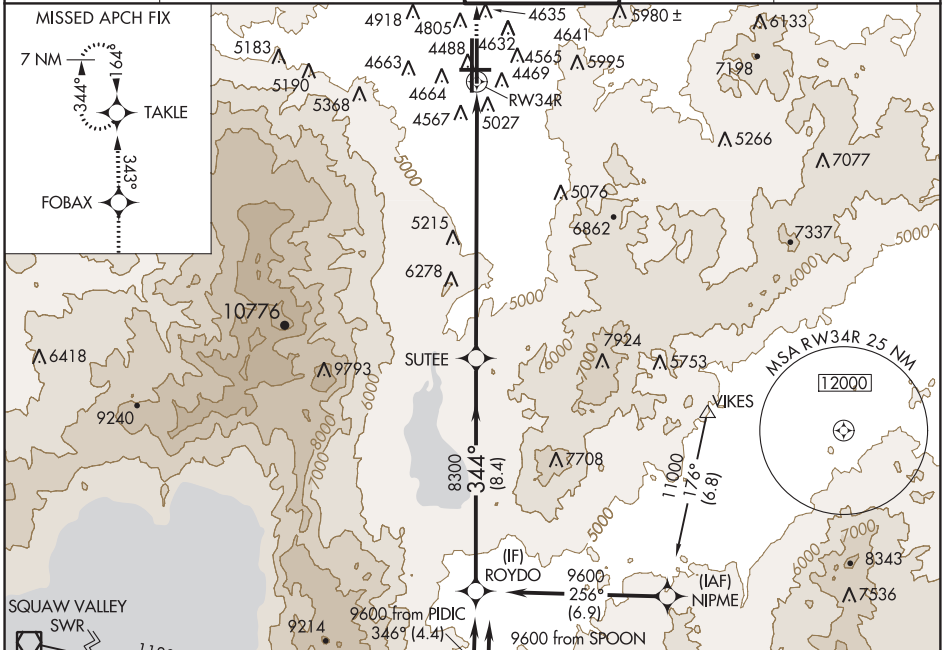
RNAV (GPS) Y RWY 34R

RENO/TAHOE INTL (RNO)

MISSED APPROACH: Climb to 10000 direct FOBAX and via 343° track to TAKLE and hold, continue climb-in-hold to 10000.

Visibility reduction by helicopters NA.

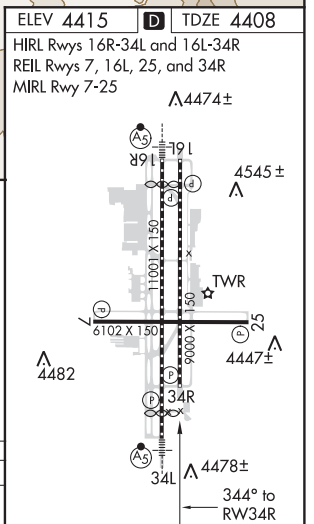
ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



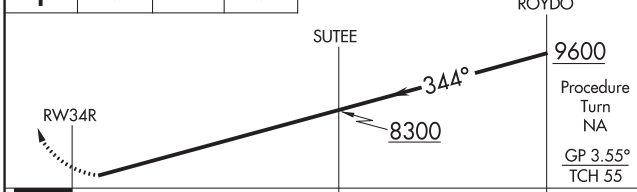
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4415	TDZE 4408
HIRL Rws 16R-34L and 16L-34R	
REIL Rws 7, 16L, 25, and 34R	
MIRL Rwy 7-25	



10000	FOBAX	343° tr	TAKLE	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).
-------	-------	---------	-------	--



CATEGORY	A	B	C	D
LPV DA	5043-2	635 (700-2)		NA

LOC/DME I-RNO 110.9 Chan 46	APP CRS 164°	Rwy Idg TDZE Apt Elev	16R 10001 4415 4415	16L 9000 4415 4415
--	------------------------	-----------------------------	---	--

LOC Y RWY 16R

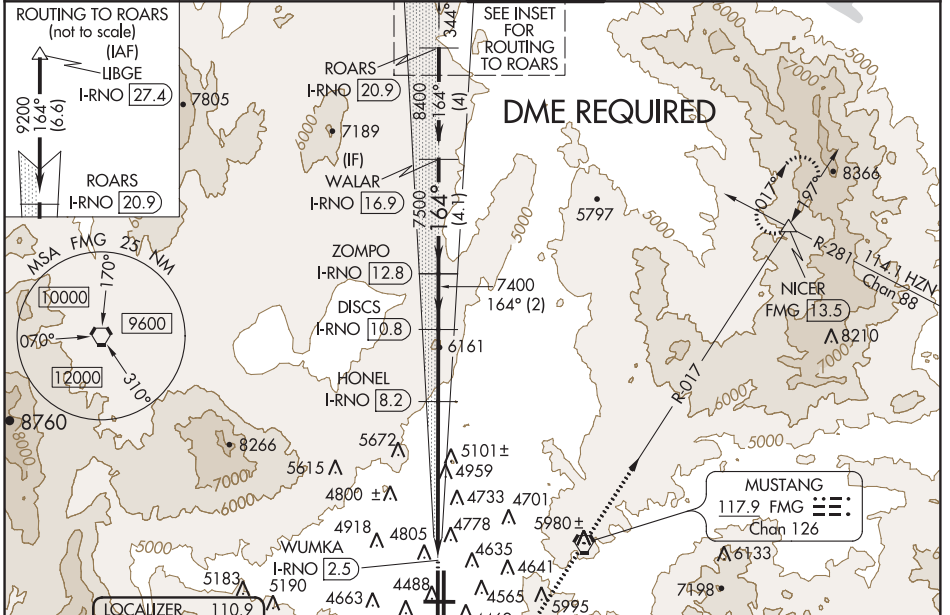
RENO/TAHOE INTL(RNO)

⚠ Circling NA for Cat E southwest of Rwys 7 and 34L. Circling to Rwy 25 NA at night. For inop MALS, increase S-LOC 16R* Cat E visibility to 3 miles.
Inop table does not apply to Cats C, D, E.

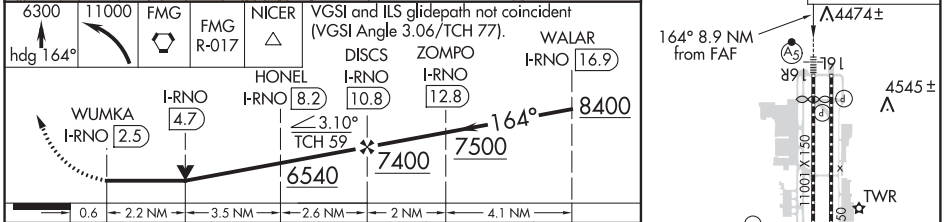
MALS 16R

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.

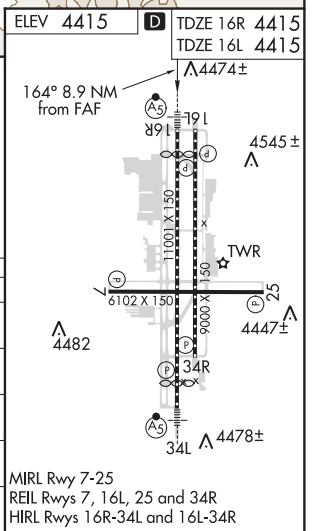
ATIS 135.8 363.0	NORCAL APP CON 119.2 279.55 126.3 353.9	RENO TOWER 118.7 257.8	GND CON 121.9 348.6	CLNC DEL 124.9 370.85
----------------------------	---	----------------------------------	-------------------------------	---------------------------------



6300 hdg 164°	11000	FMG	FMG R-017	NICER	VGSI and ILS glidepath not coincident (VGSI Angle 3.06/TCH 77).	DISCS	ZOMPO	WALAR I-RNO 16.9	ELEV 4415	TDZE 16R 4415	TDZE 16L 4415
------------------	-------	-----	-----------	-------	---	-------	-------	------------------	-----------	---------------	---------------



CATEGORY	A	B	C	D	E
S-LOC 16R *	5420/40 1005 (1100-3/4)	5420/55 1005 (1100-1/4)	5420-2 1/2	1005 (1100-2 1/2)	
S-LOC 16R †#	5720/40 1305 (1400-3/4)	5720/55 1305 (1400-1/4)	5720-3	1305 (1400-3)	
S-LOC 16R #	5920/40 1505 (1600-3/4)	5920/55 1505 (1600-1/4)	5920-3	1505 (1600-3)	6180-3 1765 (1800-3)
SIDESTEP 16L * #	5420-1/4 1005 (1100-1/4)	5420-1/2 1005 (1100-1/2)	5420-3	1005 (1100-3)	
CIRCLING	5920-1/4 1505 (1600-1/4)	5920-1/2 1505 (1600-1/2)	6480-3	2065 (2100-3)	6700-3 2285 (2300-3)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16203 **AIRPORT DIAGRAM** RENO/TAHOE INTL (RNO) RENO, NEVADA

AL-346 (FAA)

ATIS
135.8 363.0
RENO TOWER
118.7 257.8
GND CON
121.9 348.6
CLNC DEL
124.9 370.85

39°31'N

D

FIELD
ELEV
4415

400 X 220

ELEV 4415

ELEV 4415

4545 ±

AIR CARGO

U.S. CUSTOMS

TERMINAL

RWY 07-25

PCN 72 R/B/W/T

S-60, D-170, 2D-260

RWY 16L-34R

PCN 88 R/B/W/T

S-75, D-209, 2D-407, 2D/2D2-850

RWY 16R-34L

PCN 88 R/B/W/T

S-75, D-185, 2D-350, 2D/2D2-850

NEVADA ANG

DECOMMISSIONED TWR

ELEV 4409

HS 1

076.5°

6102 X 150

ELEV 4400

FIRE STATION

ELEV 4408

HS 2

400 X 220



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

346.4°

346.4°

ELEV 4415

1150 X 150

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

119°47'W

119°46'W

AIRPORT DIAGRAM RENO, NEVADA RENO/TAHOE INTL (RNO)

16203

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

HUNGRY THREE DEPARTURE

SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

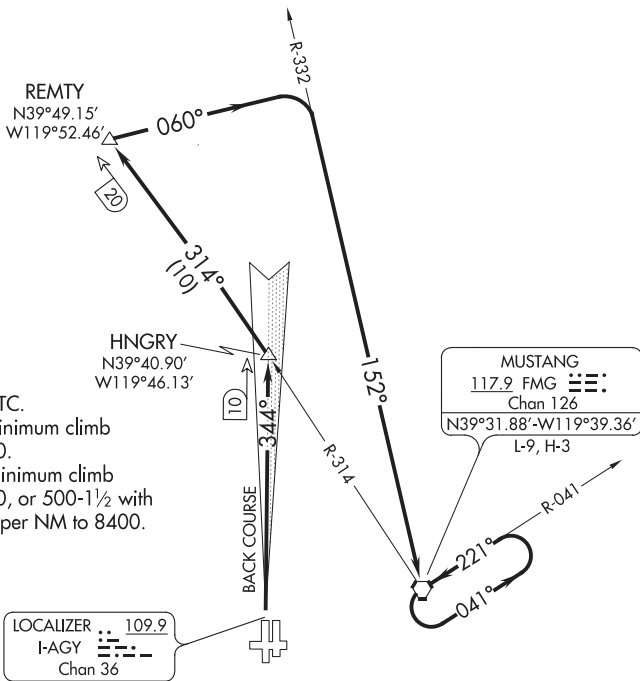
ATIS
135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
126.3 353.9

**TOP ALTITUDE:
10000**

TAKEOFF OBSTACLE NOTES

Rwy 34L: Multiple trees and pole 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.



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.

HUNGRY THREE DEPARTURE

(HNGRY3.FMG) 10DEC15

RENO, NEVADA
RENO/TAHOE INTL (RNO)

SW-4, 10 NOV 2016 to 05 JAN 2017

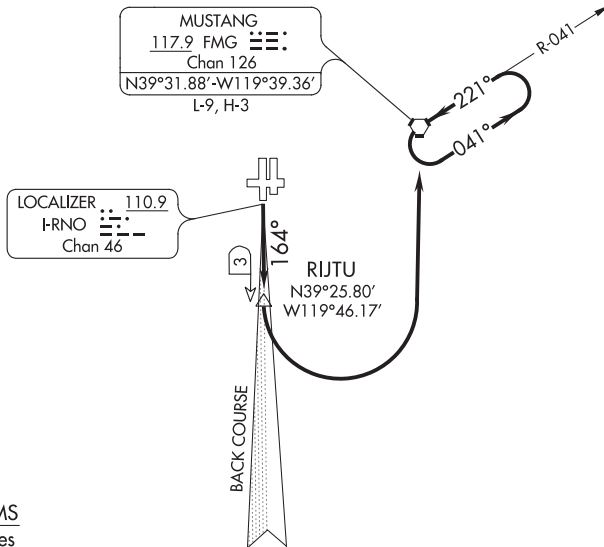
SW-4, 10 NOV 2016 to 05 JAN 2017

ATIS
135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 279.55

**TOP ALTITUDE:
10000**

TAKEOFF OBSTACLE NOTES

Rwy 16L: Multiple antennas, tree, and light poles beginning 618' from DER, 131' left of centerline, up to 40' AGL/4449' MSL.
Terrain beginning 5189' from DER, 821' left of centerline, up to 5027' MSL.
Rwy 16R: Multiple antennas, tree, and light poles beginning 746' from DER, 380' left of centerline, up to 95' AGL/4510' MSL.
Terrain beginning 2784' from DER, 990' right of centerline, up to 288' AGL/4703' MSL.



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.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(PVINE3.PVINE) 16147

PVINE THREE DEPARTURE (RNAV)

SL-346 (FAA)

RENO/TAHOE INTL (R.NO)
RENO, NEVADA

ATIS
135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
119.2 126.3 353.9

TAKEOFF MINIMUMS

Rwys 7, 25, 16L/R: NA - ATC.

Rwy 34L: Standard with minimum climb of 383' per NM to 12000.

Rwy 34R: 400-1 1/2 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.

**TOP ALTITUDE:
FL190**

PYGOW
17000

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.

HALLE
14000

CRDDZ
10000

13000
*10500
0310°
(23)

RBBRY
11000

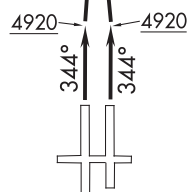
HIWAA
10000

PVINE

TAKEOFF OBSTACLE NOTES

Rwy 34L: Trees beginning 1193' from DER, 331' left of centerline, up to 75' AGL/4489' MSL.
Trees beginning 1229' from DER, 180' right of centerline, up to 84' AGL/4498' MSL.
Pole 2815' from DER, 1230' right of centerline, 83' AGL/4497' MSL.

Rwy 34R: Building 7104' from DER, 1730' right of centerline, 363' AGL/4780' MSL.
Trees beginning 1229' from DER, 350' left of centerline, up to 84' AGL/4498' MSL.
Poles beginning 1067' from DER, 171' right of centerline up to 83' AGL/4497' MSL.



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)

PVINE THREE DEPARTURE (RNAV)

(PVINE3.PVINE) 04FEB16

RENO, NEVADA
RENO/TAHOE INTL (R.NO)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RENO NINE DEPARTURE

SL-346 (FAA)

RENO/TAHOE INTL (RNO)
RENO, NEVADA

**TOP ALTITUDE:
FL190**

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.

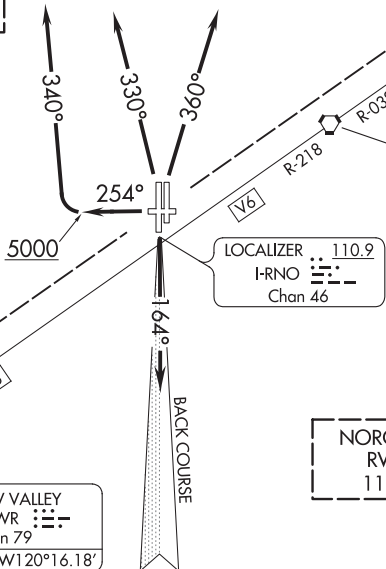
Rwy 16R: Standard with minimum climb of 460' per NM to 10900,
or 300-1 with minimum climb of 395' per NM to 10900.

Rwy 25: Standard with minimum climb of 500' per NM to 9700.

Rwys 34L/R: Standard with minimum climb of 480' per NM to 8700,
or 500-1½ with minimum climb of 430' per NM to 8700.

ATIS	135.8	363.0
CLNC DEL	124.9	370.85
GND CON	121.9	348.6
RENO TOWER	118.7	257.8

NORCAL DEP CON
RWYS 25 AND 34L/R
126.3 353.9



MUSTANG
117.9 FMG
Chan 126
N39°31.88'
W119°39.36'

LOCALIZER 110.9
I-RNO
Chan 46

NORCAL DEP CON
RWYS 16L/R
119.2 279.55

NOTE: RADAR required.

TAKEOFF OBSTACLE NOTES

- Rwy 16L: Multiple poles, trees, bushes, terrain and buildings with antennas and cameras beginning 618' from DER, 131' left of centerline, up to 20' AGL/4959' MSL.
- Rwy 16R: Multiple trees beginning 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/4723' MSL.
- Rwy 25: Multiple trees, poles, fence, and vent on building beginning 222' from DER, 201' right of centerline, up to 103' AGL/4608' MSL.
Multiple trees, poles and sign beginning 500' from DER, 31' left of centerline, up to 20' AGL/4506' MSL.
- Rwy 34L: Multiple trees and pole 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 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.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

RENO NINE DEPARTURE

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RENO NINE DEPARTURE

SI-346 (FAA)



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.

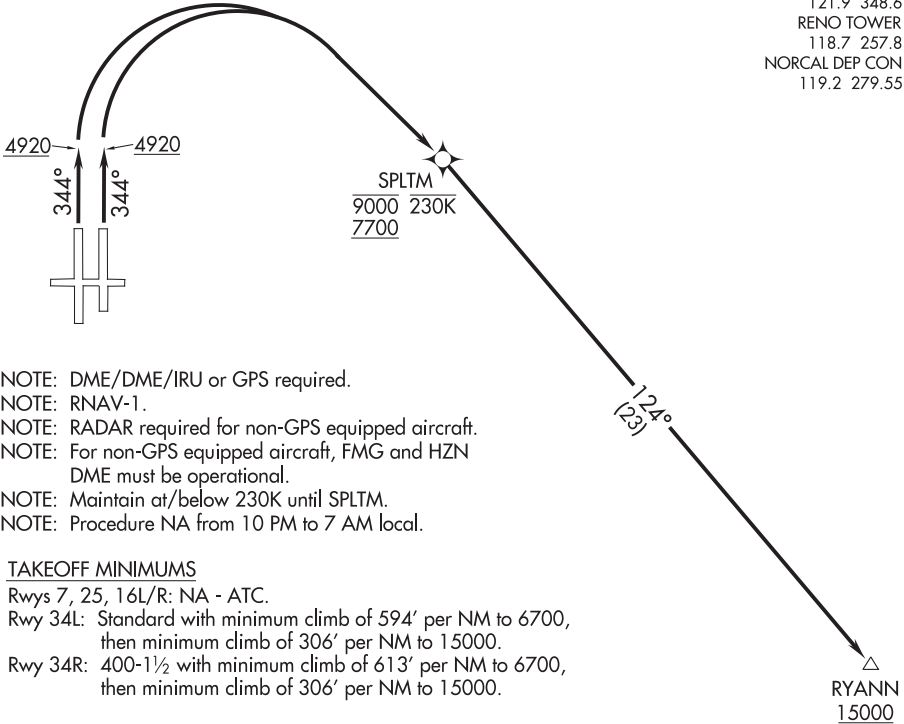
. . . .RUNWAYS 25 and 34L/R DEPARTURES: Turn right direct FMG VORTAC, then via assigned route.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

**TOP ALTITUDE:
FL190**

ATIS
135.8 363.0
CLNC DEL
124.9 370.85
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.

TAKEOFF OBSTACLE NOTES

- Rwy 34L: Trees beginning 1193' from DER, 331' left of centerline, up to 75' AGL/4489' MSL.
Trees beginning 1229' from DER, 180' right of centerline, up to 84' AGL/4498' MSL.
Pole 2815' from DER, 1230' right of centerline, 83' AGL/4497' MSL.
- Rwy 34R: Building 7104' from DER, 1730' right of centerline, 363' AGL/4780' MSL.
Trees beginning 1229' from DER, 350' left of centerline, up to 84' AGL/4498' MSL.
Poles beginning 1067' from DER, 171' right of centerline, up to 83' AGL/4497' MSL.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ATIS
135.8 363.0
CLNC DEL
124.9 370.85
GND CON
121.9 348.6
RENO TOWER
118.7 257.8
NORCAL DEP CON
126.3 353.9

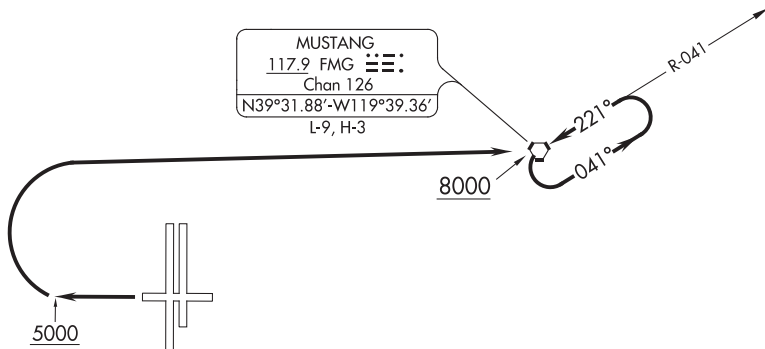
**TOP ALTITUDE:
10000**

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.



TAKEOFF OBSTACLE NOTES

Rwy 25: Multiple poles left and right of centerline beginning 500' from DER, 467' left of centerline, up to 48' AGL/4523' MSL.
Numerous trees left and right of centerline, beginning 1877' from DER, 31' left of centerline, up to 40' AGL/4506' MSL.
Sign 1656' from DER, 422' left of centerline, up to 31' AGL/4482' MSL.

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAGGE SIX DEPARTURE


SL-346 (FAA)


RENO/TAHOE INTL (RNO)

RENO, NEVADA

ATIS
 135.8 363.0
 CLNC DEL
 124.9 370.85
 GND CON
 121.9 348.6
 RENO TOWER
 118.7 257.8
 NORCAL DEP CON
 119.2 279.55


**TOP ALTITUDE:
FL190**


LOVELOCK
 116.5 LLC 
 Chan 112
 N40°07.52'-W118°34.66'
 L-9-11, H-3

MUSTANG
 117.9 FMG 
 Chan 126
 N39°31.88'-W119°39.36'
 L-9, H-3

**MINIMUM CROSSING
 ALTITUDES AT FMG
 FOR MUSTANG TRANSITION**
 V28-113 South: 10500
 V6 Southwest: 12000
 V165 South: 10000

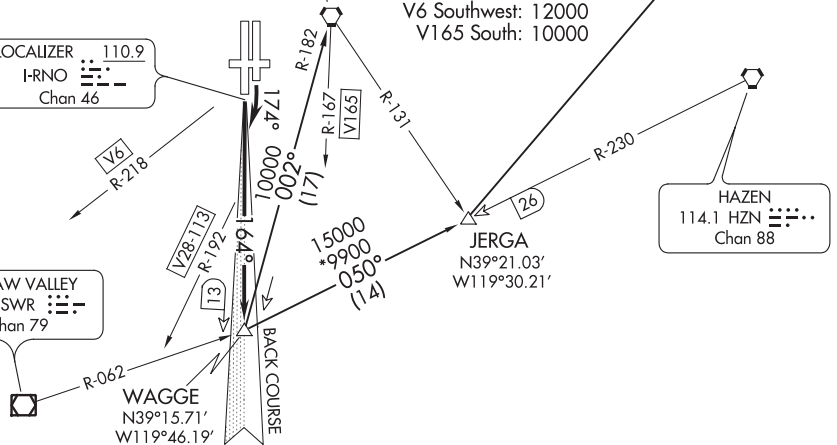
LOCALIZER
 I-RNO 
 Chan 46

HAZEN
 114.1 HZN 
 Chan 88

SQUAW VALLEY
 113.2 SWR 
 Chan 79

JERGA
 N39°21.03'
 W119°30.21'

WAGGE
 N39°15.71'
 W119°46.19'



TAKEOFF OBSTACLE NOTES

All Rwys: Cross DER at or above 35' AGL.
 Rwy 16R: Terrain 7638' from DER, 2349' left of centerline, 4703' MSL.
 Rwy 16L: Tower/hazard beacon 6056' from DER, 2403' left of centerline, 16' AGL/5027' MSL.

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.

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.

WAGGE SIX DEPARTURE

(WAGGE6.WAGGE) 04FEB16

RENO, NEVADA
RENO/TAHOE INTL (RNO)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(ZEFFR6.ZEFFR) 16035

ZEFFR SIX DEPARTURE (RNAV)

RENO/TAHOE INTL (R.NO)
RENO, NEVADA

SL-346 (FAA)

ATIS
 135.8 363.0
 CLNC DEL
 124.9 370.85
 GND CON
 121.9 348.6
 RENO TOWER
 118.7 257.8
 NORCAL DEP CON
 119.2 279.55

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)

**TOP ALTITUDE:
FL190**

NOTE: Chart not to scale.

TAKEOFF MINIMUMS

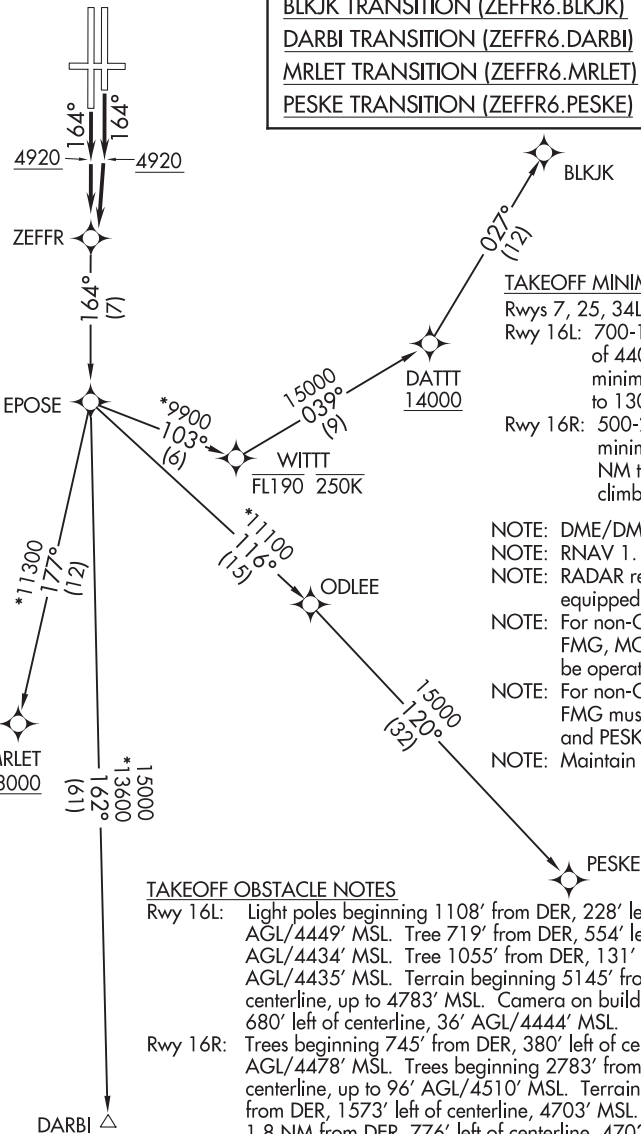
Rwys 7, 25, 34L/R: NA-ATC.
 Rwy 16L: 700-1½ with minimum climb of 440' per NM to 9400, then minimum climb of 400' per NM to 13000.
 Rwy 16R: 500-2½ or standard with minimum climb of 440' per NM to 9400, then minimum climb of 400' per NM to 13000.

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 equipped aircraft FMG must be operational for BLKJK and PESKE transitions.
 NOTE: Maintain at/below 250K until WITTT.

TAKEOFF OBSTACLE NOTES

Rwy 16L: Light poles beginning 1108' from DER, 228' left of centerline, up to 41' AGL/4449' MSL. Tree 719' from DER, 554' left of centerline, 26' AGL/4434' MSL. Tree 1055' from DER, 131' left of centerline, 27' AGL/4435' MSL. Terrain beginning 5145' from DER, 821' left of centerline, up to 4783' MSL. Camera on building 1354' from DER, 680' left of centerline, 36' AGL/4444' MSL.

Rwy 16R: Trees beginning 745' from DER, 380' left of centerline, up to 64' AGL/4478' MSL. Trees beginning 2783' from DER, 171' right of centerline, up to 96' AGL/4510' MSL. Terrain beginning 1.1 NM from DER, 1573' left of centerline, 4703' MSL. Terrain beginning 1.8 NM from DER, 776' left of centerline, 4702' MSL.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ZEFFR SIX DEPARTURE (RNAV)

(ZEFFR6.ZEFFR) 04FEB16

RENO, NEVADA
RENO/TAHOE INTL (R.NO)

WAAS CH 70537 W19A	APP CRS 207°	Rwy Idg TDZE Apt Elev	7100 5286 5318
--	------------------------	-----------------------------	---

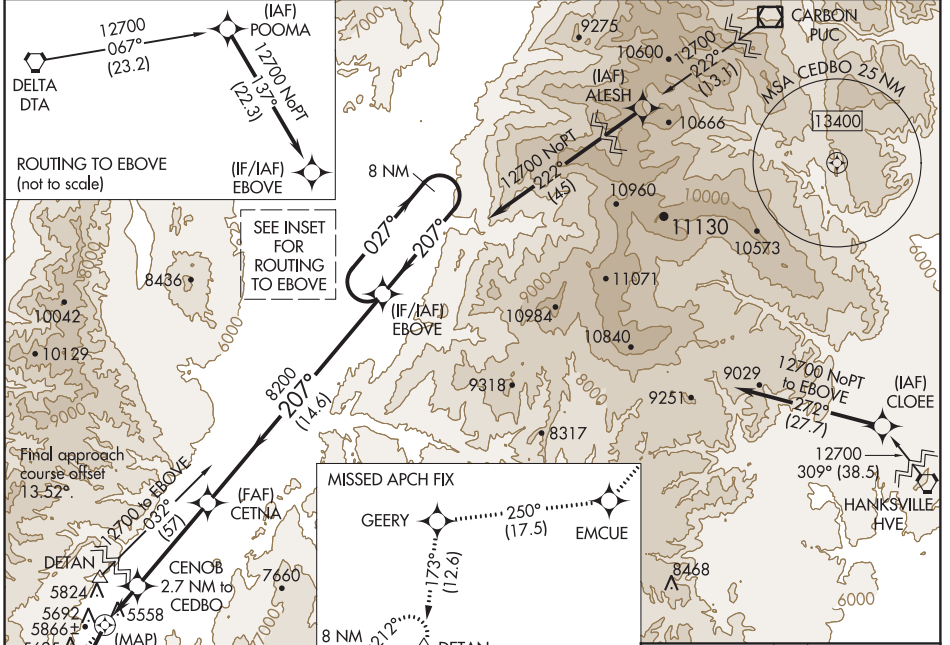
RNAV (GPS) RWY 19

RICHFIELD MUNI (RIF)

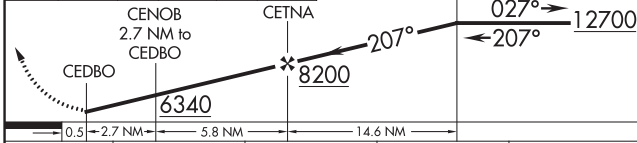
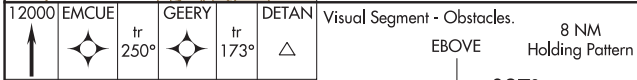
⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, procedure NA. Helicopter visibility reduction below $\frac{3}{4}$ SM NA.
⚠ $-26^{\circ}\text{C}/-15^{\circ}\text{F}$ *Missed approach requires minimum climb of 380 feet per NM to 9600.
 # Missed approach requires minimum climb of 390 feet per NM to 9600.

MISSED APPROACH: Climb to 12000 direct EMCUE, and on track 250° to GEERY, and on track 173° to DETAN and hold.

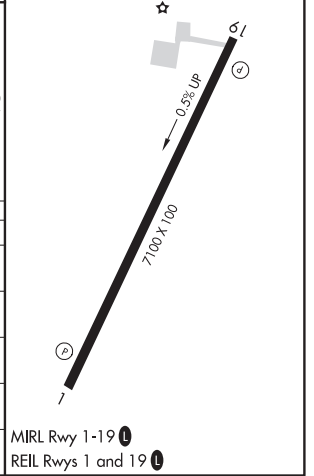
AWOS-3 133.375	SALT LAKE CITY CENTER 133.6 269.25	UNICOM 122.8 (CTAF) 0
--------------------------	--	---------------------------------



ELEV 5318	TDZE 5286
-----------	-----------



CATEGORY	A	B	C	D
LP MDA*	5880-1	594 (600-1)	5880-1 $\frac{3}{4}$ 594 (600-1 $\frac{3}{4}$)	NA
LP MDA	7340-1 $\frac{1}{4}$ 2054 (2100-1 $\frac{1}{4}$)	7340-1 $\frac{1}{2}$ 2054 (2100-1 $\frac{1}{2}$)	7340-3 2054 (2100-3)	NA
LNAV MDA#	6340-1 $\frac{1}{4}$ 1054 (1100-1 $\frac{1}{4}$)	6340-1 $\frac{1}{2}$ 1054 (1100-1 $\frac{1}{2}$)	6340-3 1054 (1100-3)	NA
LNAV MDA	7440-1 $\frac{1}{4}$ 2154 (2200-1 $\frac{1}{4}$)	7440-1 $\frac{1}{2}$ 2154 (2200-1 $\frac{1}{2}$)	7440-3 2154 (2200-3)	NA
C CIRCLING	7440-1 $\frac{1}{4}$ 2122 (2200-1 $\frac{1}{4}$)	7440-1 $\frac{1}{2}$ 2122 (2200-1 $\frac{1}{2}$)	7440-3 2122 (2200-3)	NA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

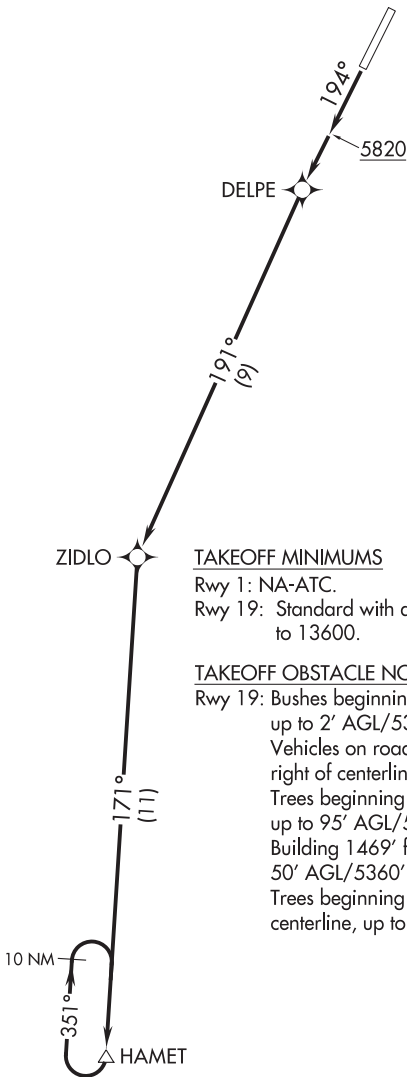
(HAMET3.HAMET) 16315

SL-9434 (FAA)

RICHFIELD MUNI (RIF)
RICHFIELD, UTAH

HAMET THREE DEPARTURE (OBSTACLE) (RNAV)

SALT LAKE CITY CENTER
133.6 269.25
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.

HAMET THREE DEPARTURE (OBSTACLE) (RNAV)

(HAMET3.HAMET) 20AUG15

RICHFIELD, UTAH
RICHFIELD MUNI (RIF)

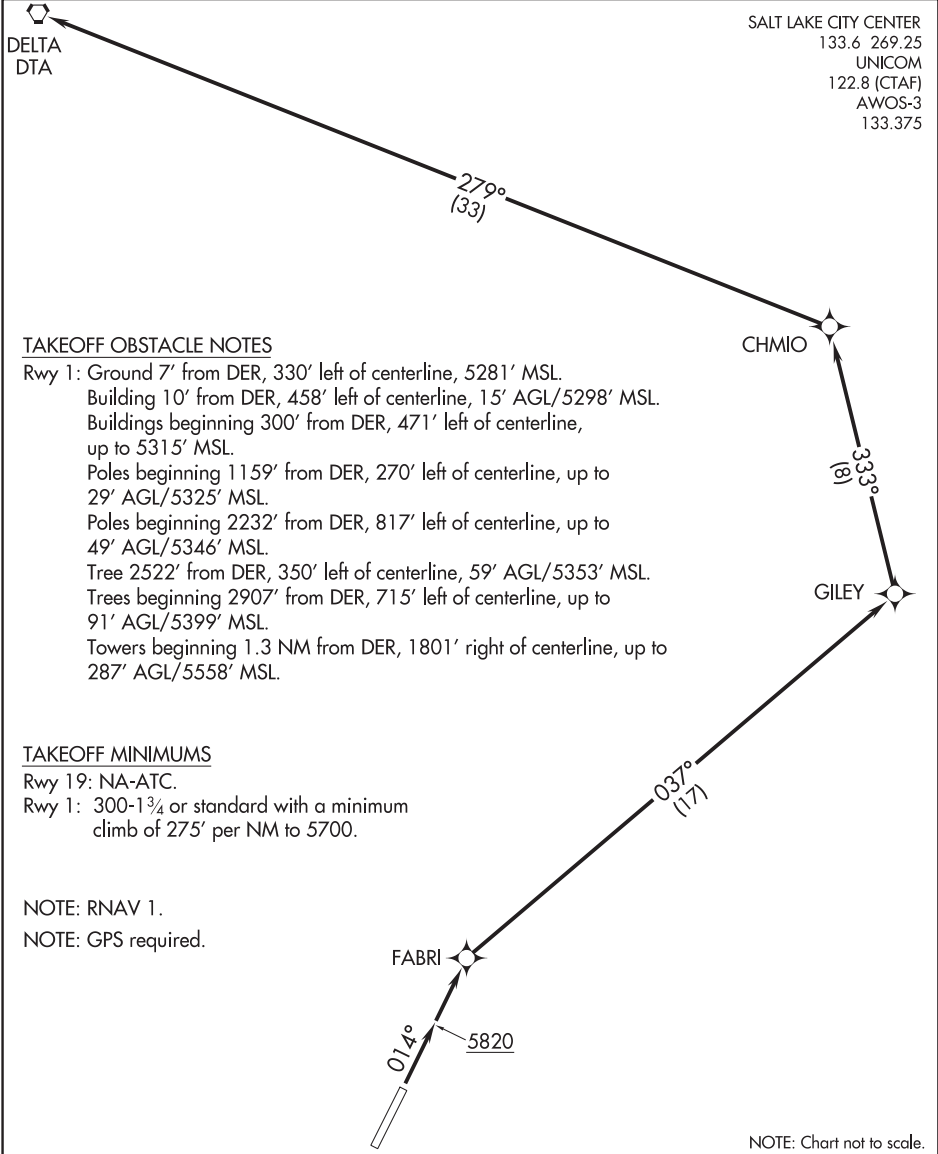
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RICHFIELD TWO DEPARTURE (OBSTACLE) (RNAV)

RICHFIELD MUNI (RIF)
RICHFIELD, UTAH

SALT LAKE CITY CENTER
133.6 269.25
UNICOM
122.8 (CTAF)
AWOS-3
133.375



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.

NOTE: Chart not to scale.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VOR/DME MTU 112.7 Chan 74	APP CRS 010°	Rwy Idg TDZE Apt Elev	N/A N/A 5176
---	------------------------	-----------------------------	---

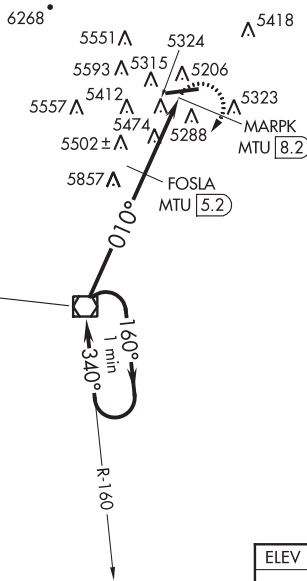
VOR-A
ROOSEVELT MUNI (74V)

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.

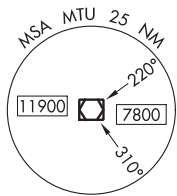
MISSED APPROACH: Climbing right turn to 9000 direct MTU VOR/DME and hold, continue climb-in-hold to 9000.

AWOS-3P 118.975	SALT LAKE CENTER 135.77 257.7	UNICOM 122.8 (CTAF) 0
---------------------------	---	---------------------------------

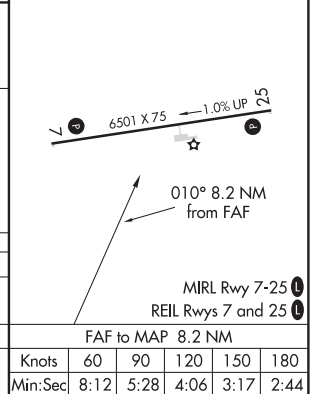
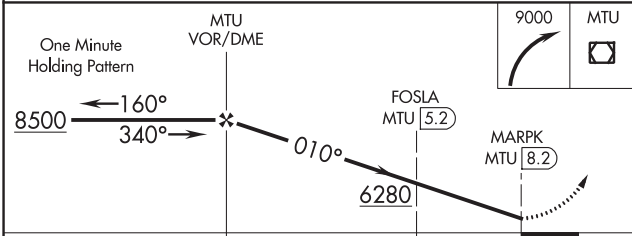
△ 7010



IAF
MYTON
112.7 MTU
Chan 74



ELEV 5176



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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 78316 W30A	APP CRS 303°	Rwy Idg TDZE Apt Elev	6006 3169 3179
--	------------------------	-----------------------------	---

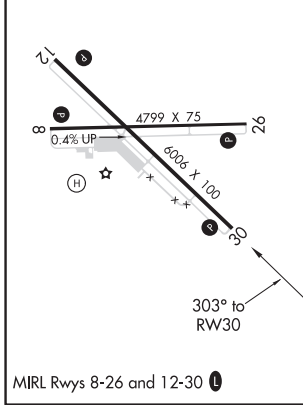
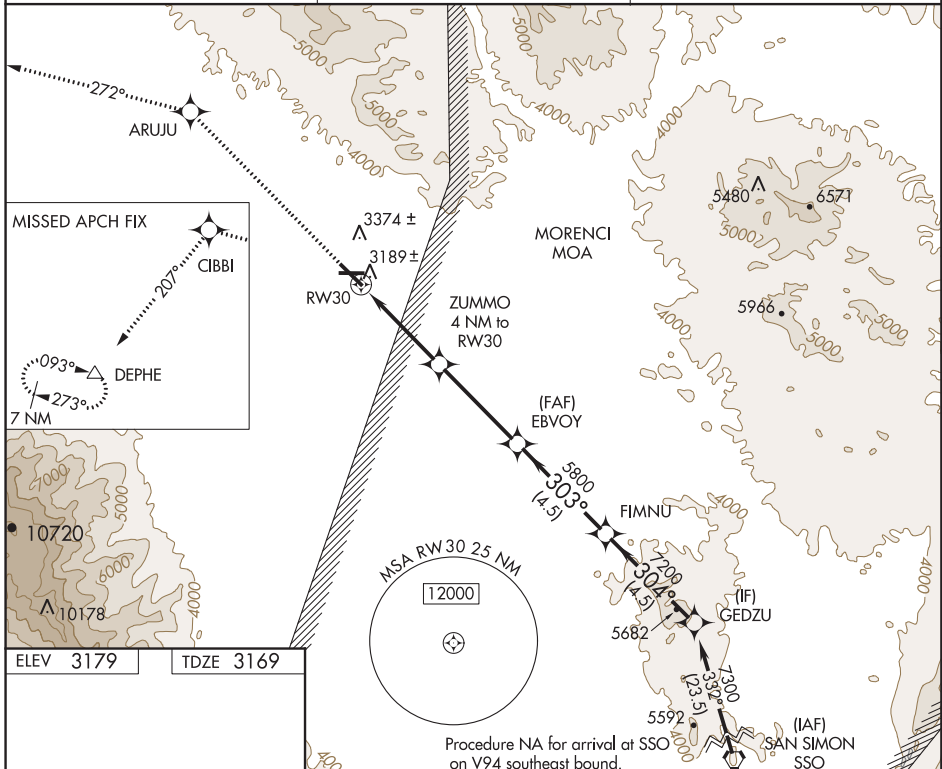
RNAV (GPS) RWY 30

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 ARUJU and on track 272° to CIBBI and on track 207° to DEPHE and hold.

ASOS 124.175	ALBUQUERQUE CENTER 134.45 327.15	UNICOM 122.8 (CTAF) 0
------------------------	--	---------------------------------



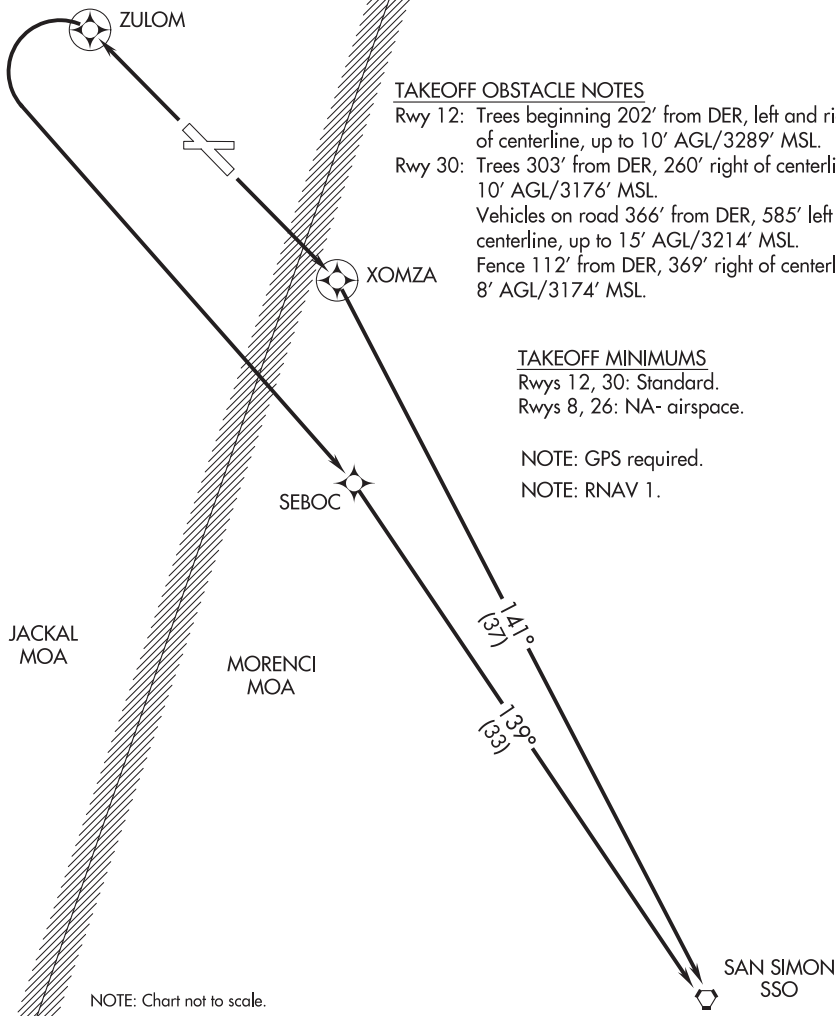
10000	ARUJU	CIBBI	DEPHE	GEDZU
↑	tr 272°	tr 207°	△	
* LNAV only				VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 20).
	ZUMMO	FIMNU	EBVOY	GEDZU
	4 NM to RWY 30	5800	5800	7300
	* 2.1 NM to RWY 30	304°	303°	Procedure Turn NA
				GP 3.00°
				TCH 36
	2.1 NM	1.9 NM	4 NM	4.5 NM

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ALBUQUERQUE CENTER
134.45 327.15



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.

NOTE: Chart not to scale.

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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 50220 W01A	APP CRS 008°	Rwy Idg TDZE Apt Elev	9300 2851 2884
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 1

ST GEORGE RGNL (SGU)

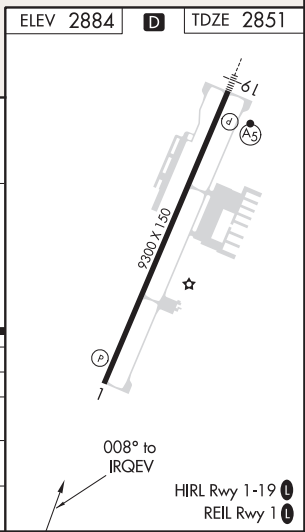
⚠ DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.
⚠ % Missed approach requires a minimum climb of 225 feet per NM to 6800.
⚠ -13°C/9°F ** Missed approach requires a minimum climb of 220 feet per NM to 6700.

MISSED APPROACH: Climb to 9800 direct UYITA and on track 307° to HUNKU and hold, continue climb-in-hold to 9800.

AWOS-3 135.075	LOS ANGELES CENTER 124.2 343.6	CLNC DEL 133.3	UNICOM 122.8 (CTAF)
--------------------------	--	--------------------------	-------------------------------



ELEV 2884	D	TDZE 2851		
VGSi and RNAV glidepath not coincident (VGSi Angle 3.00 /TCH 50). ARENT Δ UYITA Δ HUNKU Δ JITEG Δ WOMIM Δ ZOGOV Δ VEVUY Δ UGEXY Δ IRQEV Δ GP 3.60° TCH 60 8600 008° 7900 7300 6800 5700 4340 2.3 NM 1.9 NM 1.8 NM 2.7 NM 3.5 NM 3.3 NM 0.5 NM *UNAV only.				
CATEGORY	A	B	C	D
LPV DA %	3170-1 319 (300-1)			NA
RNAV MDA**	3340-1	489 (500-1)	3340-1 $\frac{3}{8}$ 489 (500-1 $\frac{3}{8}$)	NA
RNAV MDA	3760-1 $\frac{1}{4}$	909 (900-1 $\frac{1}{4}$)	3760-2 $\frac{1}{2}$ 909 (900-2 $\frac{1}{2}$)	NA
CIRCLING	3760-1 $\frac{1}{4}$	876 (900-1 $\frac{1}{4}$)	3760-2 $\frac{1}{2}$ 876 (900-2 $\frac{1}{2}$)	NA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ST GEORGE, UTAH

AL-10546 (FAA)

16147

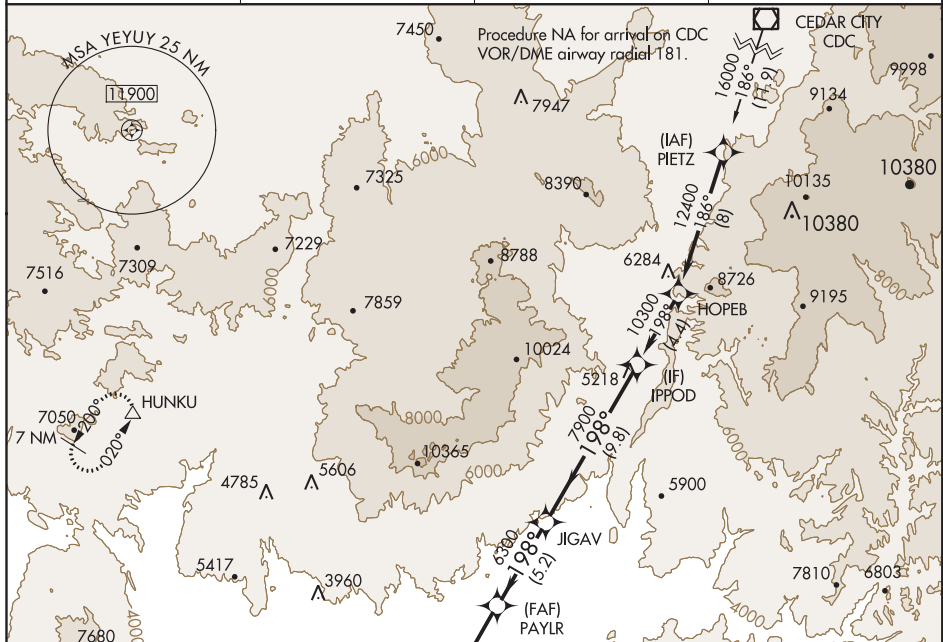
APP CRS 198°	Rwy Idg 9300
	TDZE 2884
	Apt Elev 2884

RNAV (GPS) RWY 19

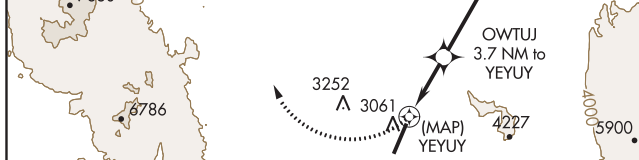
ST GEORGE RGNL (SGU)

-13°C/9°F	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climbing right turn to 9800 direct HUNKU and hold, continue climb-in-hold to 9800.
-----------	---------------------	--	---

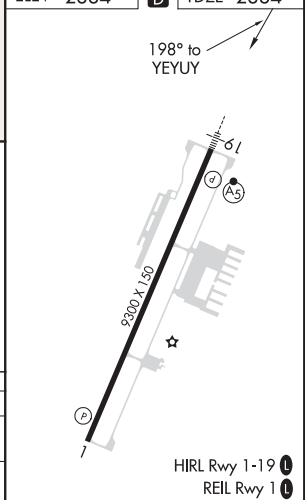
AWOS-3 135.075	LOS ANGELES CENTER 124.2 343.6	CLNC DEL 133.3	UNICOM 122.8 (CTAF)
--------------------------	--	--------------------------	-------------------------------



ELEV 2884	D TDZE 2884
-----------	--------------------



	A	B	C	D
LNVA MDA	3940-3/4 1056 (1100-3/4)	3940-1 1056 (1100-1)	3940-2 1/2 1056 (1100-2 1/2)	1056 (1100-2 1/2)
CIRCLING	3940-1 1/4 1056 (1100-1 1/4)	3940-1 1/2 1056 (1100-1 1/2)	3940-3	1056 (1100-3)



ST GEORGE, UTAH
Orig-C 26MAY16

37°02'N-113°31'W

RNAV (GPS) RWY 19

ST GEORGE RGNL (SGU)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-SGU 110.9 Chan 46	APP CRS 198°	Rwy Idg TDZE Apt Elev 9300 2884 2884
---	------------------------	--

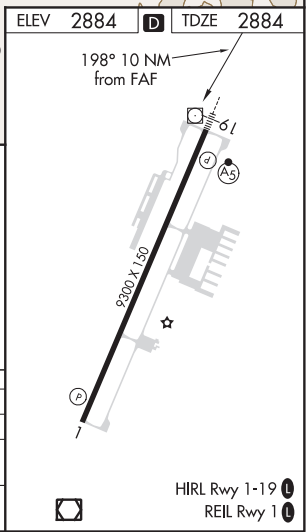
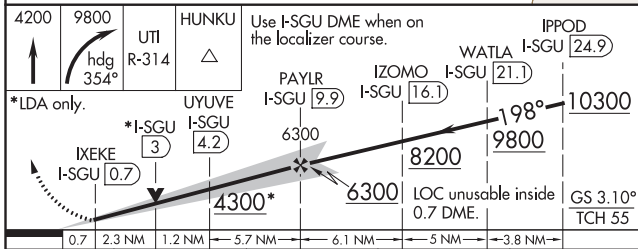
LDA/DME RWY 19

ST GEORGE RGNL (SGU)

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.

AS -13°C/9°F

AWOS-3 135.075	LOS ANGELES CENTER 124.2 343.6	CLNC DEL 133.3	UNICOM 122.8 (CTAF)
--------------------------	--	--------------------------	-------------------------------



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)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VOR/DME UTI 108.6 Chan 23	APP CRS 016°	Rwy Idg TDZE Apt Elev 2884	N/A N/A 2884
---	------------------------	--	---

VOR/DME-A

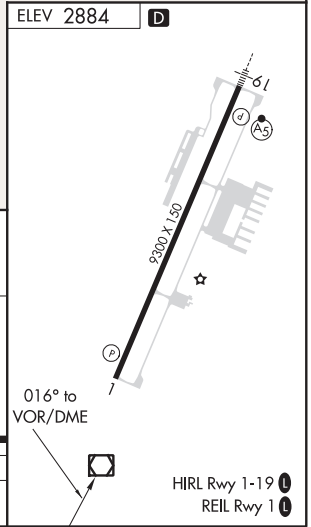
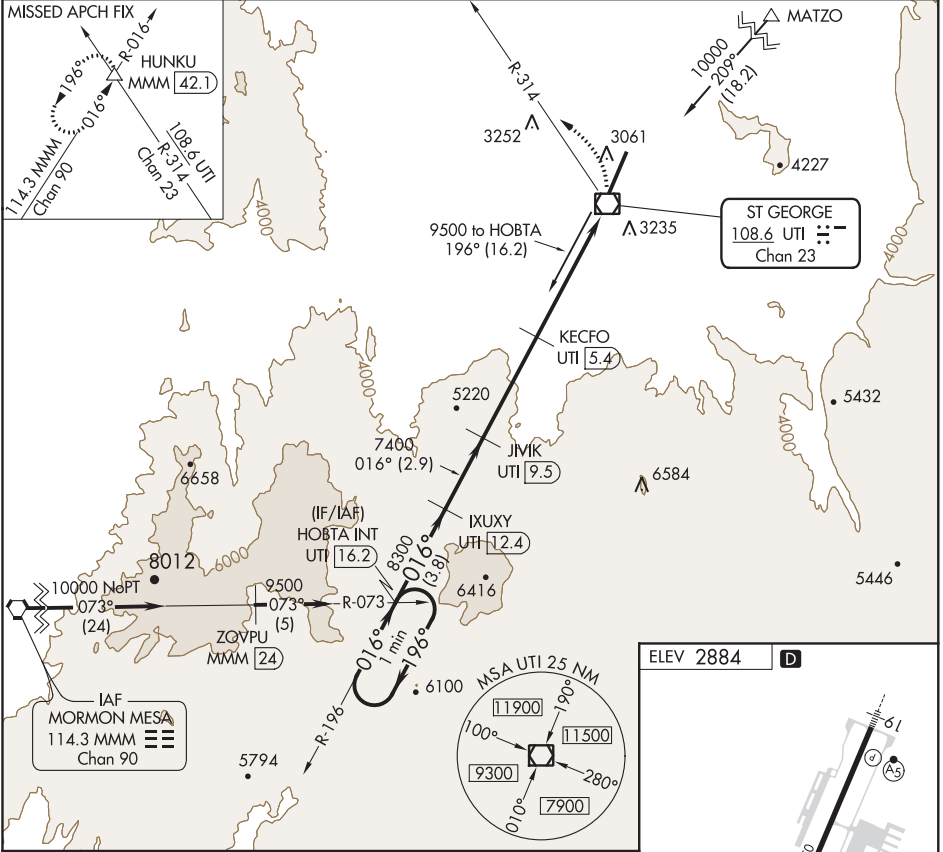
ST GEORGE RGNL (SGU)



Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9800 on UTI VOR/DME R-314 to HUNKU INT/MMM 42.1 DME and hold, continue climb-in-hold to 9800.

AWOS-3 135.075	LOS ANGELES CENTER 124.2 343.6	CLNC DEL 133.3	UNICOM 122.8 (CTAF)
--------------------------	--	--------------------------	-------------------------------



CATEGORY	A	B	C	D
	3740-1 856 (900-1)	3760-1¼ 876 (900-1¼)	3760-2½ 876 (900-2½)	3860-3 976 (1000-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

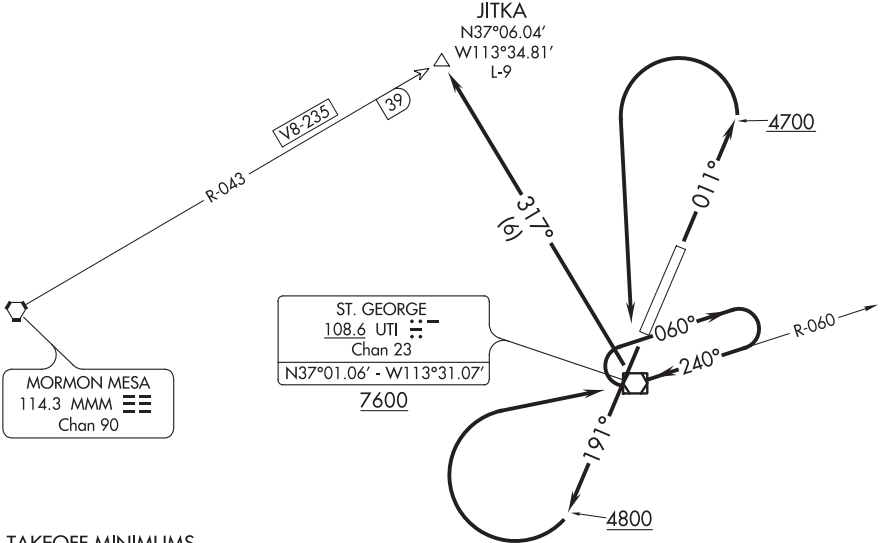
SW-4, 10 NOV 2016 to 05 JAN 2017

AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6

JITKA
N37°06.04'
W113°34.81'
L-9

ST. GEORGE
108.6 UTI
Chan 23
N37°01.06' - W113°31.07'
7600

MORMON MESA
114.3 MMM
Chan 90



TAKEOFF MINIMUMS

- Rwy 1: Obtain ATC approval for VOCA 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 VOCA 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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(HIVKA2.HIVKA) 16091

HIVKA TWO DEPARTURE (RNAV)

SL-10546 (FAA)

ST GEORGE RGNL (SGU)
ST GEORGE, UTAH

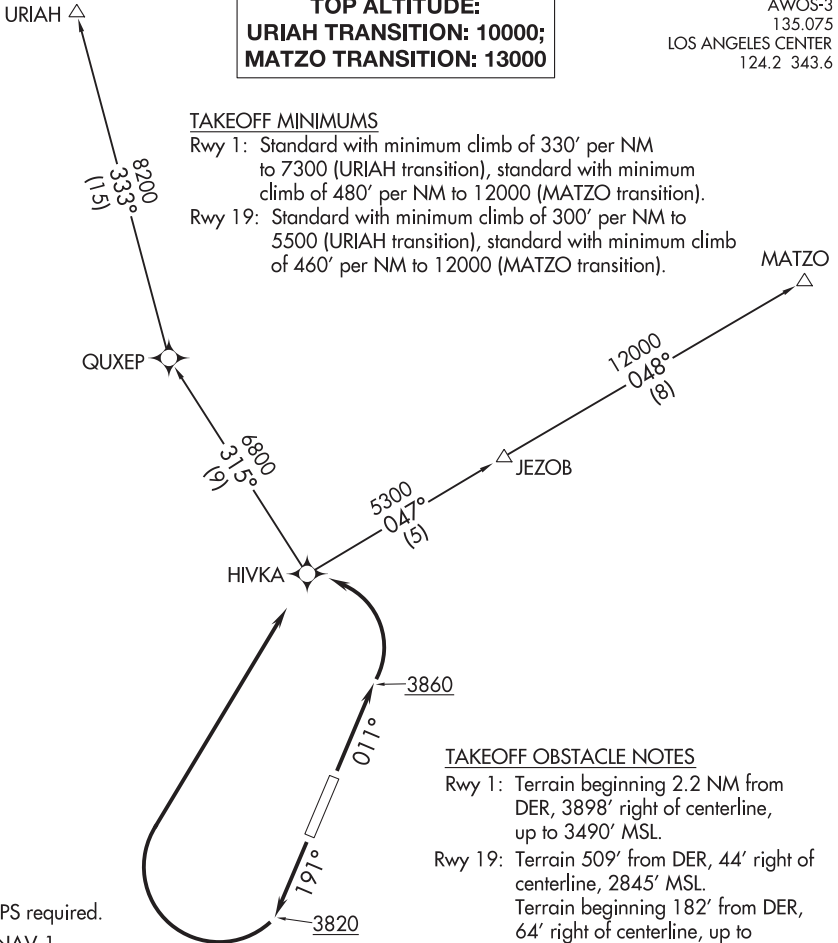
AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6

**TOP ALTITUDE:
URIAH TRANSITION: 10000;
MATZO TRANSITION: 13000**

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).



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' right of centerline, 2845' MSL. Terrain beginning 182' from DER, 64' right of centerline, up to 2856' MSL.

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)

HIVKA TWO DEPARTURE (RNAV)
(HIVKA2.HIVKA) 31MAR16

ST GEORGE, UTAH
ST GEORGE RGNL (SGU)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(PHYL2.PHYLI) 16091

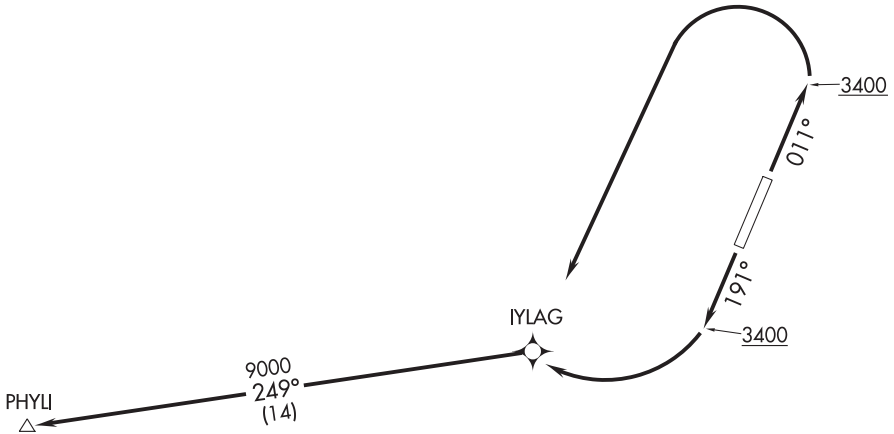
PHYLI TWO DEPARTURE (RNAV)

SL-10546 (FAA)

ST GEORGE RGNL (SGU)
ST GEORGE, UTAH

AWOS-3
135.075
LOS ANGELES CENTER
124.2 343.6

**TOP ALTITUDE:
9000**



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

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: GPS required.
- NOTE: RNAV-1.
- 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.

PHYLI TWO DEPARTURE (RNAV)
(PHYL2.PHYLI) 31MAR16

ST GEORGE, UTAH
ST GEORGE RGNL (SGU)

ST JOHNS, ARIZONA

AL-6586 (FAA)

15176

WAAS CH 49224 W14A	APP CRS 136°	Rwy Idg TDZE Apt Elev	5322 5736 5737
--	------------------------	-----------------------------	---

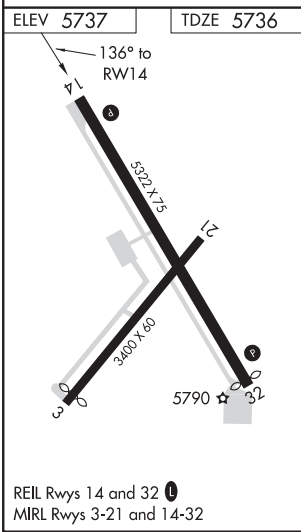
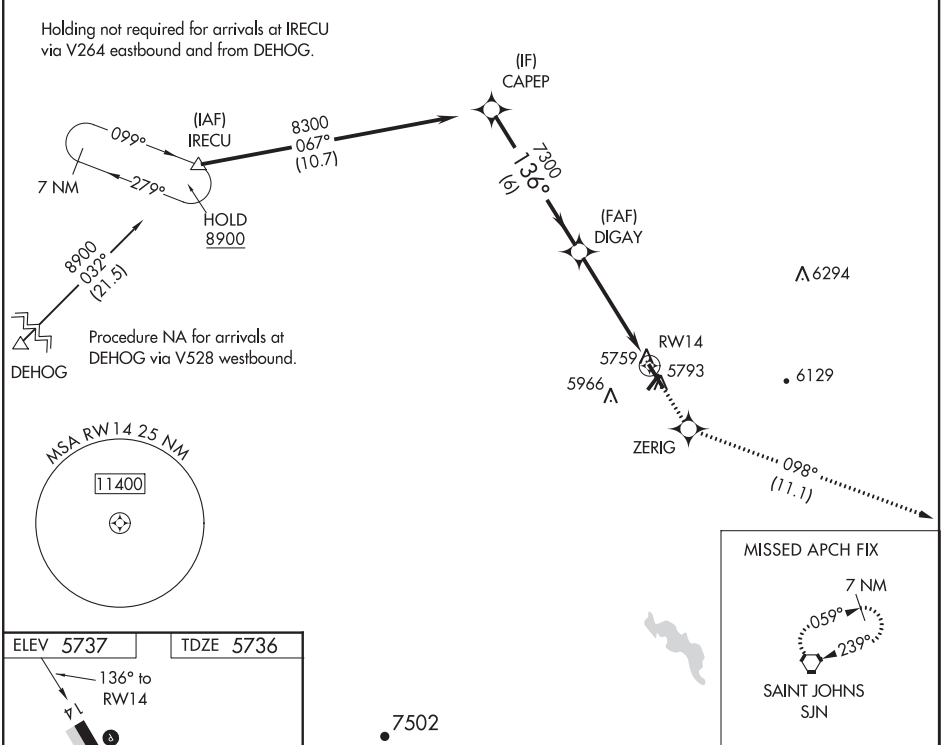
RNAV (GPS) RWY 14

ST JOHNS INDUSTRIAL AIR PARK (SJJN)

⚠ 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 3/4 SM NA. VDP NA with Show Low altimeter setting.

MISSED APPROACH: Climb to 9000 direct ZERIG and on track 098° to SJJN VORTAC and hold, continue climb-in-hold to 9000.

ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 0
------------------------	---	---------------------------------



		9000	ZERIG	tr 098°	SJJN
CAPEP					
8300					
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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ST JOHNS, ARIZONA
Amdt 1A 26JUN14

34°31'N-109°23'W

ST JOHNS INDUSTRIAL AIR PARK (SJJN)
RNAV (GPS) RWY 14

APP CRS 316°	Rwy Idg 5230
	TDZE 5737
	Apt Elev 5737

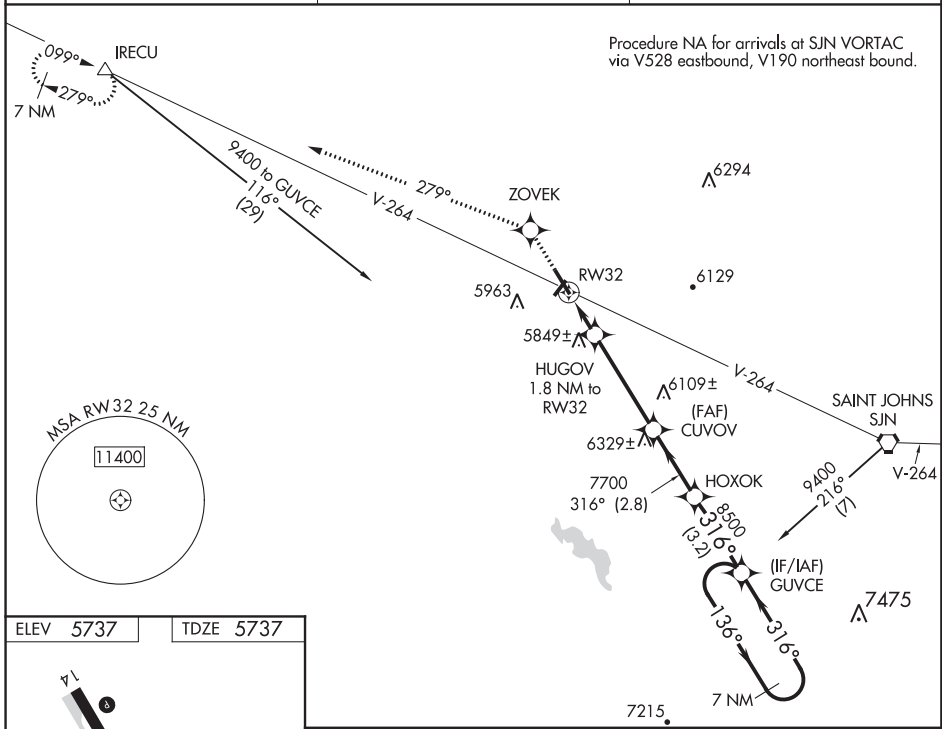
RNAV (GPS) RWY 32

ST JOHNS INDUSTRIAL AIR PARK (SJJN)

⚠ If local altimeter setting not received, use Show Low altimeter setting and increase all DAs/MDAs 180 feet. DME/DME RNP-0.3 NA.
 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-15°F) or above 30°C (86°F). Visibility reduction by helicopters NA.
 Baro-VNAV and Straight-in LNAV minimums NA when using Show Low altimeter setting.

MISSED APPROACH: Climb to 9400 direct ZOVEK and via 279° track to IRECU and hold.

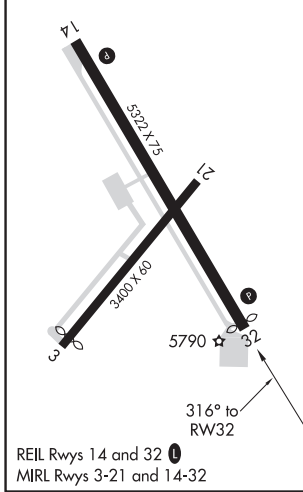
ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 📻
------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5737	TDZE 5737
-----------	-----------



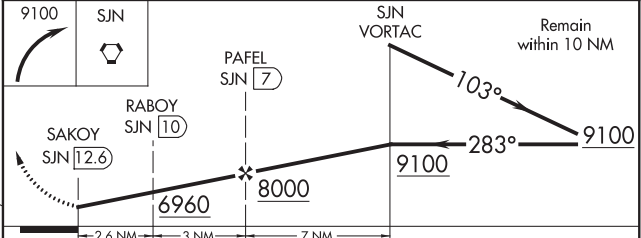
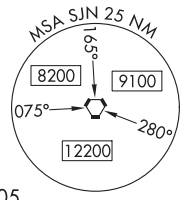
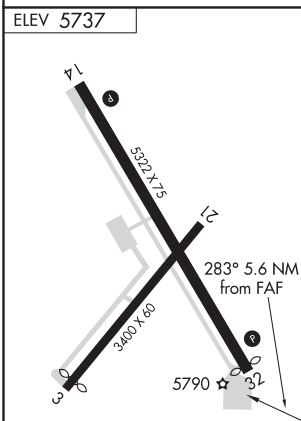
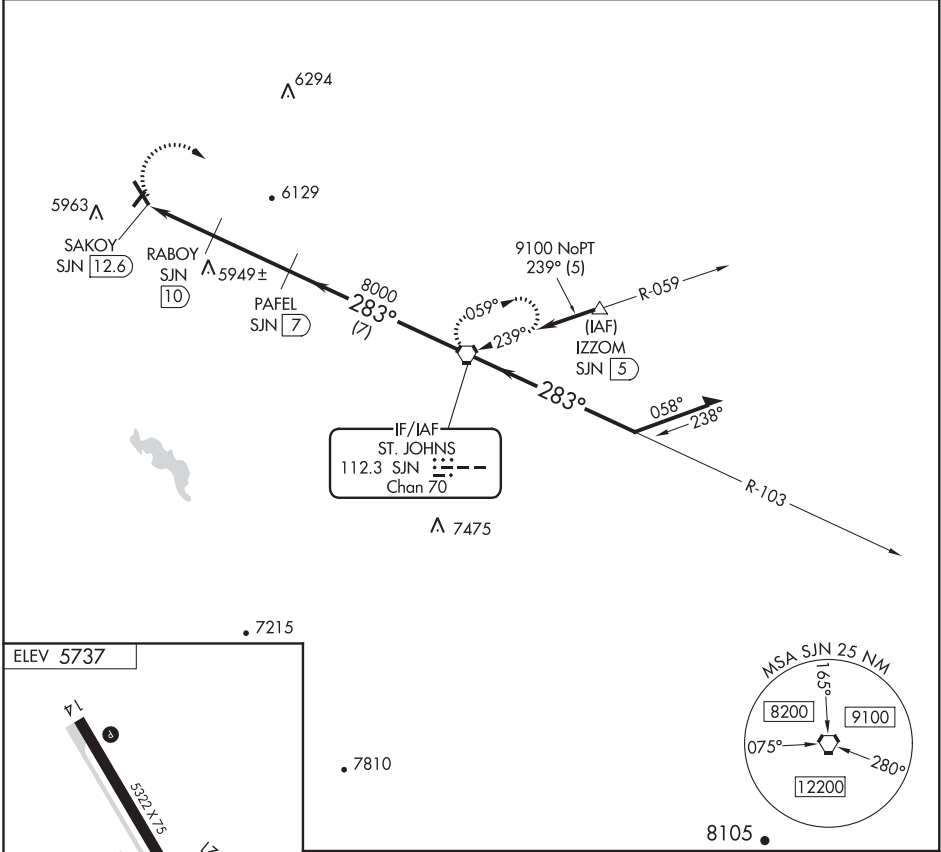
9400	ZOVEK	279° tr	IRECU	HOXOK	GUVCE	7 NM Holding Pattern
* LNAV only		HUGOV 1.8 NM to RW32		CUVOV	136° → 9400 ← 316°	
RW32		6360*	7700	8500	GP 3.08° TCH 40	
1.8 NM		4 NM		2.8 NM		3.2 NM
CATEGORY	A		B		C	D
LNAV/VNAV DA	6167-1½		430 (500-1½)		NA	
LNAV MDA	6140-1		403 (500-1)		NA	
CIRCLING	6240-1 503 (600-1)		6280-1 543 (600-1)		NA	

VORTAC SJN 112.3 Chan 70	APP CRS 283°	Rwy Idg TDZE Apt Elev	N/A N/A 5737
--	------------------------	-----------------------------	---

VOR/DME-A
ST JOHNS INDUSTRIAL AIR PARK (SJN)

⚠ When local altimeter setting not received, use Show Low altimeter setting and increase all MDAs 180 feet. **MISSED APPROACH:** Climbing right turn to 9100 direct SJN VORTAC and hold, continue climb-in-hold to 9100.

ASOS 134.225	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) ①
------------------------	---	--



REIL Rwy 14 and 32 **①**
MIRL Rwy 3-21 and 14-32

CATEGORY	A	B	C	D
CIRCLING	6240-1 503 (600-1)	6280-1 543 (600-1)	NA	

SW-4, 10 NOV 2016 to 05 JAN 2017

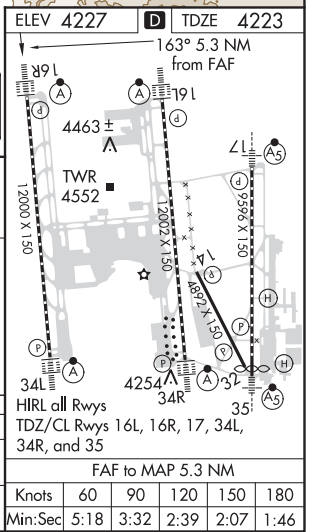
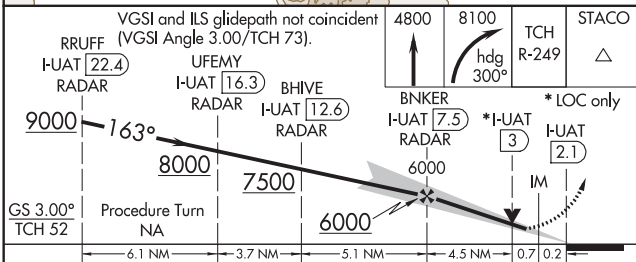
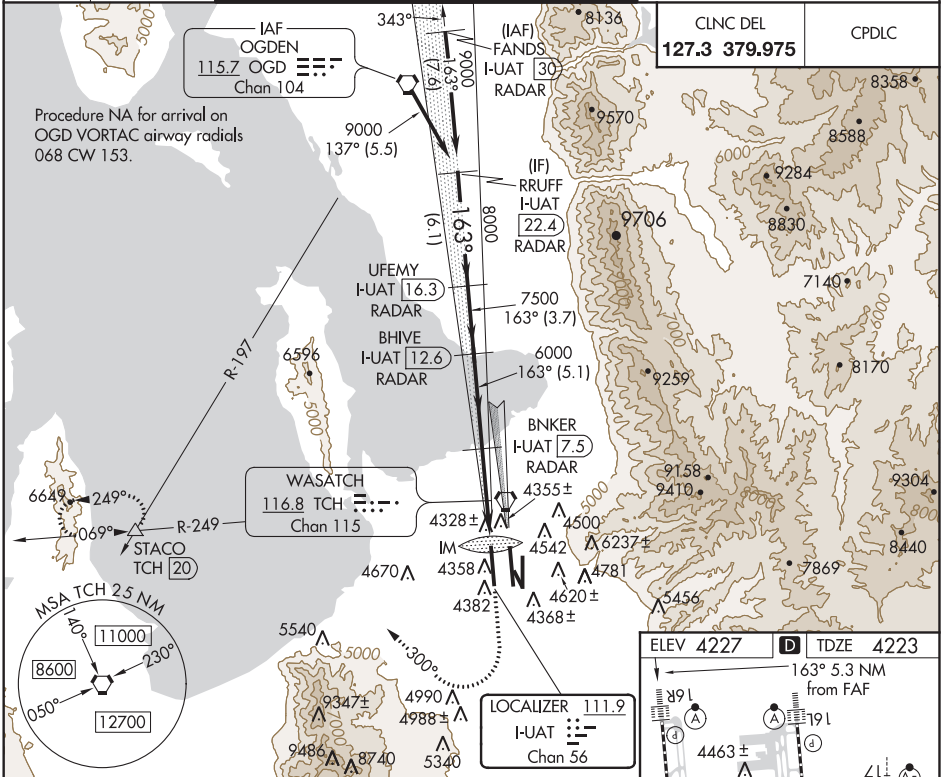
SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-UAT 111.9 Chan 56	APP CRS 163°	Rwy ldg 12000 TDZE 4223 Apt Elev 4227
---	------------------------	--

ILS or LOC RWY 16R

SALT LAKE CITY INTL (SLC)

▽ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 16L, ILS RWY 16L (CAT II & III) and RWY 17.		ALSF-2 	MISSED APPROACH: Climb to 4800 then climbing right turn to 8100 via heading 300° and via TCH VORTAC R-249 to STACO INT/TCH VORTAC 20 DME and hold.
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)	GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)



CATEGORY	A	B	C	D
S-ILS 16R	4423/18 200 (200-½)			
S-LOC 16R	4580/24 357 (400-½)		4580/40 357 (400-¾)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-BNT 111.5 Chan 52	APP CRS 168°	Rwy Idg TDZE 9596 4219 Apt Elev 4227
--	------------------------	---

ILS or LOC RWY 17

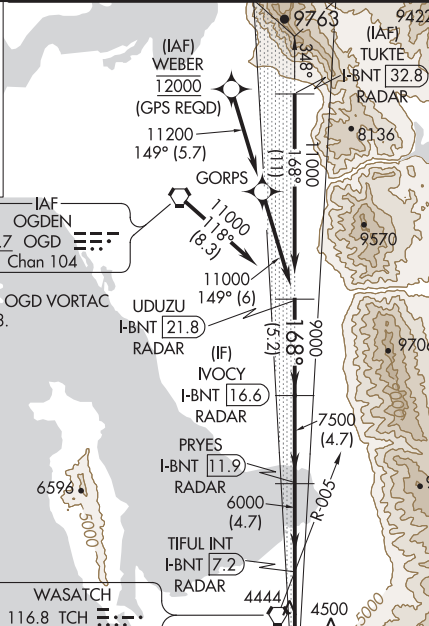
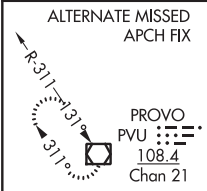
SALT LAKE CITY INTL (SLC)

▼ DME or RADAR required. Simultaneous approach authorized. For inop MALS/R, increase S-ILS 17 Cat E visibility to RVR 4000, increase S-LOC 17 Cat C/D/E visibility to 1 1/8 mile.



MISSED APPROACH: Climb to 5800 then climbing left turn to 10000 direct FFU VORTAC and hold.

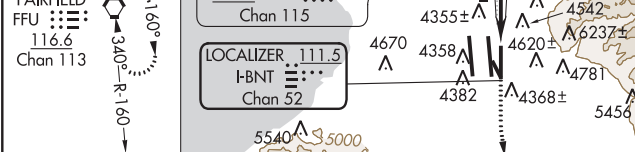
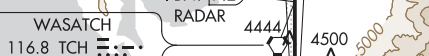
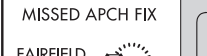
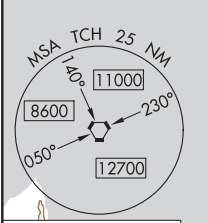
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)			GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)
---	--	---	--	--	--



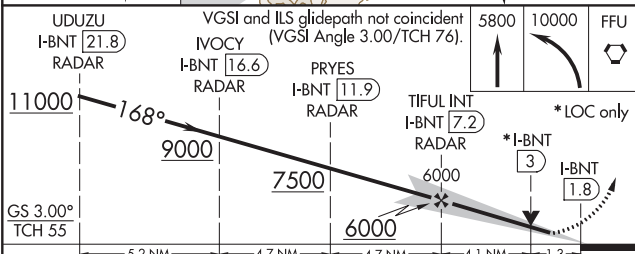
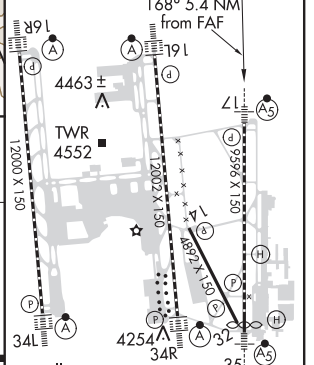
CLNC DEL 127.3 379.975	CPDLC
----------------------------------	-------

RADAR REQUIRED

Procedure NA for arrival on OGD VORTAC airway radials 068 CW 153.



ELEV 4227	TDZE 4219
-----------	-----------



CATEGORY	A	B	C	D	E
S-ILS 17	4419/18 200 (200-1/2)				
S-LOC 17	4700/24	481 (500-1/2)	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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-UUH 111.9 Chan 56	APP CRS 343°	Rwy Idg TDZE 12000 4226	Apt Elev 4227
--	------------------------	---	-------------------------

ILS or LOC RWY 34L

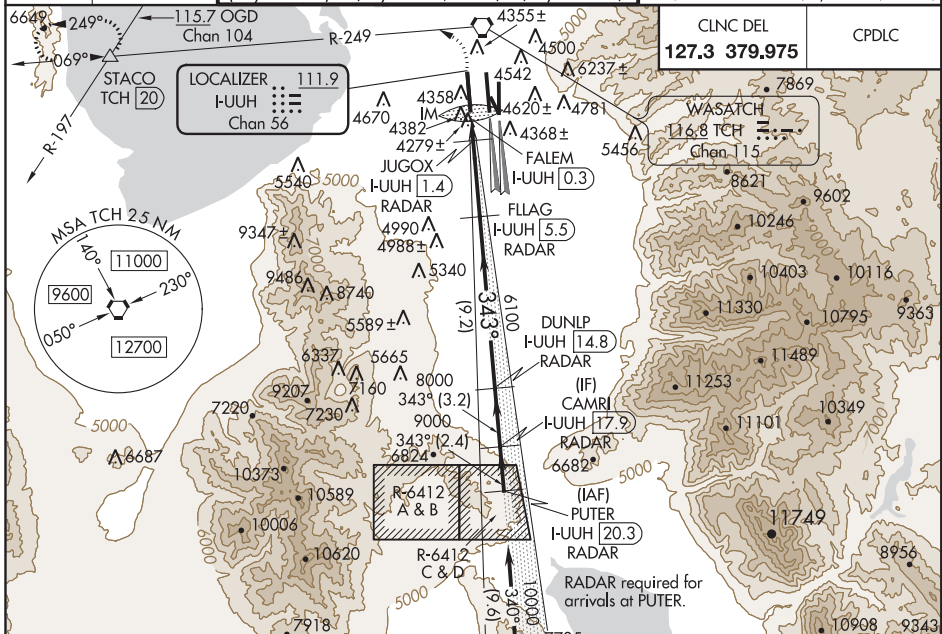
SALT LAKE CITY INTL (SLC)

▽ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 34R, ILS RWY 34R (SA CAT II), ILS RWY 34R (CAT II), ILS RWY 34R (CAT III), RNAV (GPS) RWY 34R and the LDA RWY 35.

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.

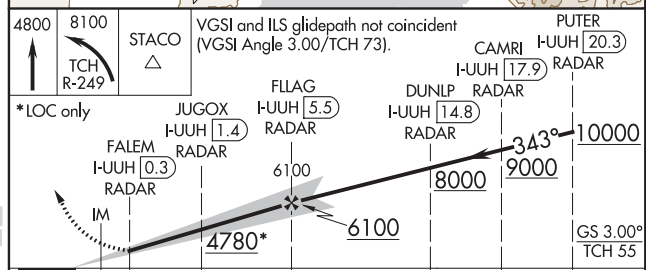
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	GND CON 121.9 348.6 (Rwys 14-32, 17-35) 123.775 348.6 (Rwys 16L-34R, 16R-34L)
---	---	---	---



ELEV 4227	D	TDZE 4226
HIRL all Rwys TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R		



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 (400-¾)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-SLC 109.5 Chan 32	APP CRS 343°	Rwy Idg TDZE Apt Elev	12002 4222 4227
--	------------------------	-----------------------------	--

ILS or LOC RWY 34R

SALT LAKE CITY INTL (SLC)

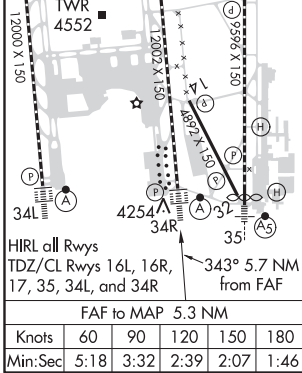
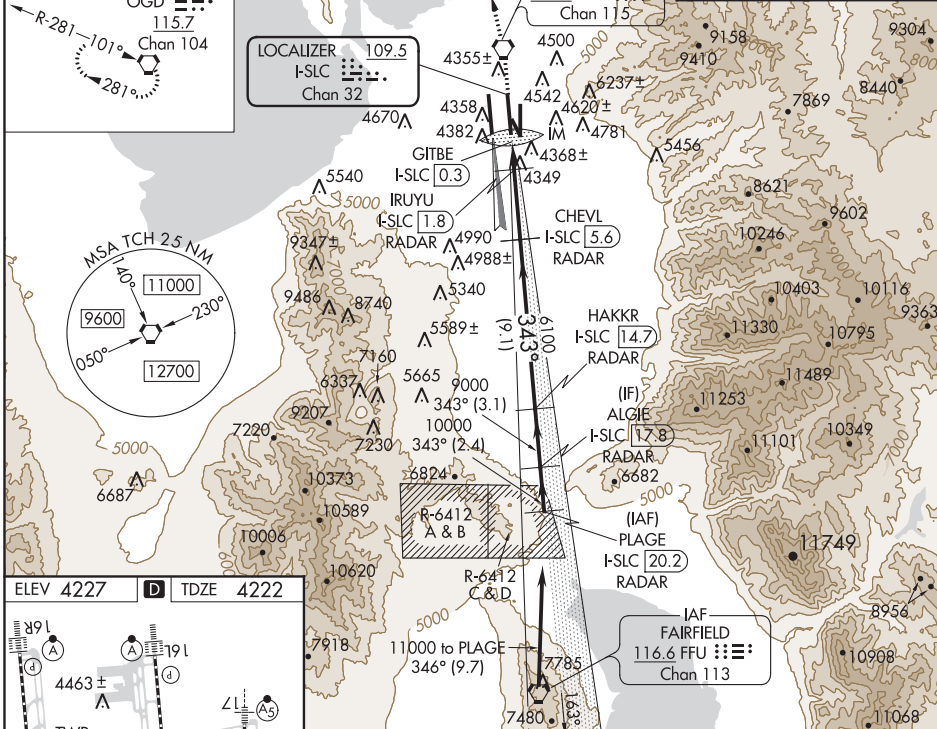
▽ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 34L, ILS RWY 34L (SA CAT II), ILS RWY 34L (CAT II), ILS RWY 34L (CAT III), RNAV (GPS) RWY 34L, and LDA RWY 35.



MISSED APPROACH: Climb to 9000 direct TCH VORTAC then via TCH VORTAC R-331 to OGD VORTAC and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	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)		GND CON 121.9 348.6 (Rwys 14-32, 17-35) 123.775 348.6 (Rwys 16L-34R, 16R-34L)	
---	---	--	--	---	--

MISSED APCH FIX	CLNC DEL 127.3 379.975	CPDLC
-----------------	----------------------------------	-------



9000	TCH	TCH R-331	OGD	VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).	PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR
					GITBE I-SLC [0.3] RADAR
					HAKKR I-SLC [14.7] RADAR
					PLAGE I-SLC [20.2] RADAR
					ALGIE I-SLC [17.8] RADAR
					CHEVL I-SLC [5.6] RADAR
					IRUYU I-SLC [1.8] RADAR

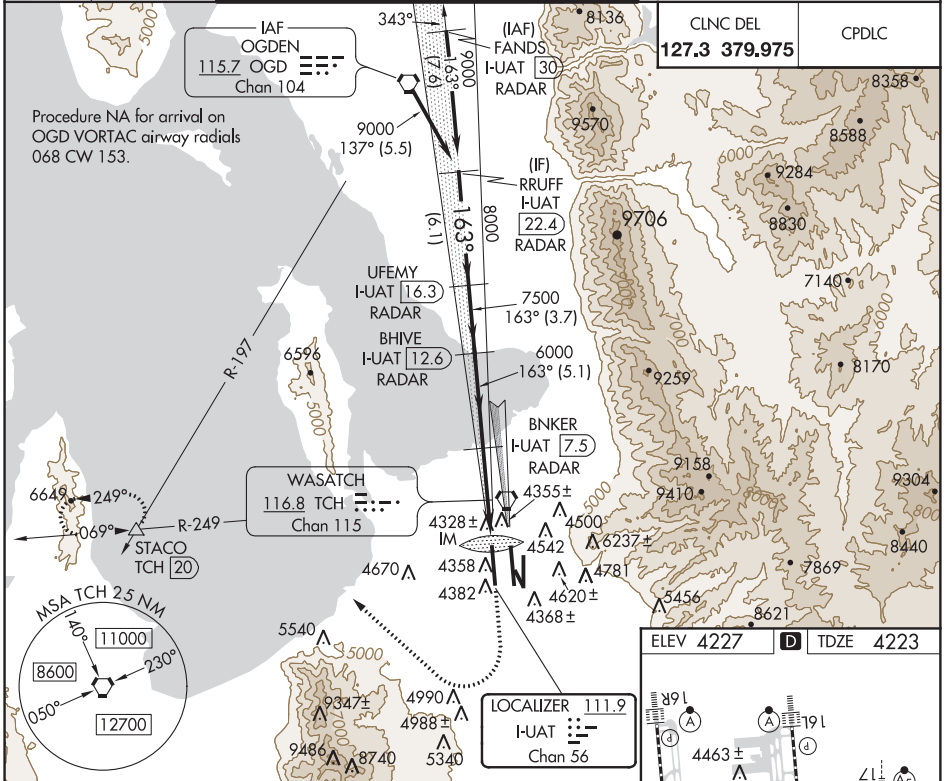
LOC/DME I-UAUT 111.9 Chan 56	APP CRS 163°	Rwy Idg 12000 TDZE 4223 Apt Elev 4227
--	------------------------	--

ILS RWY 16R (SA CAT I)

SALT LAKE CITY INTL (SLC)

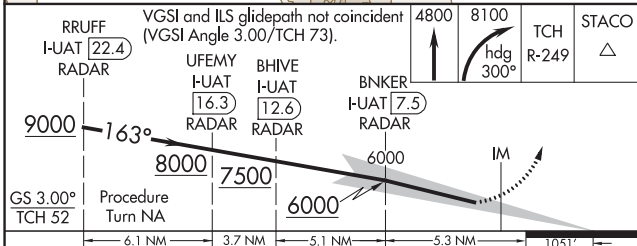
<p>▼ DME or RADAR required. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. Simultaneous approach authorized with ILS or LOC RWY 16L, ILS RWY 16L (CAT II & III) and RWY 17.</p>	<p>ALS-F-2 (A)</p>	<p>MISSED APPROACH: Climb to 4800 then climbing right turn to 8100 via heading 300° and via TCH VORTAC R-249 to STACO INT/TCH VORTAC 20 DME and hold.</p>
--	-------------------------------	---

<p>ATIS 124.75 125.625</p>	<p>SALT LAKE CITY APP CON 124.3 322.3</p>	<p>SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)</p>	<p>GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)</p>
--	--	--	---



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
S-ILS 16R	RA 157/14 150 DA 4373			
SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED				


HIRL all Rwws
TDZ/CL Rwws 16L, 16R, 17, 34L, 34R, and 35

LOC/DME I-UUH 111.9 Chan 56	APP CRS 343°	Rwy Idg TDZE 12000 4226	Apt Elev 4227
--	------------------------	---	-------------------------

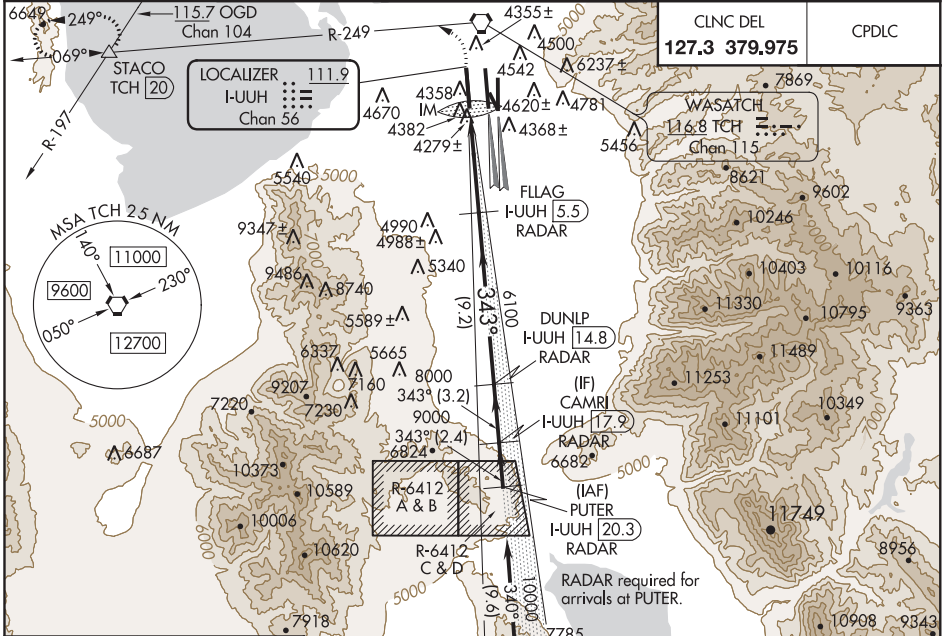
ILS RWY 34L (SA CAT I)

SALT LAKE CITY INTL (SLC)

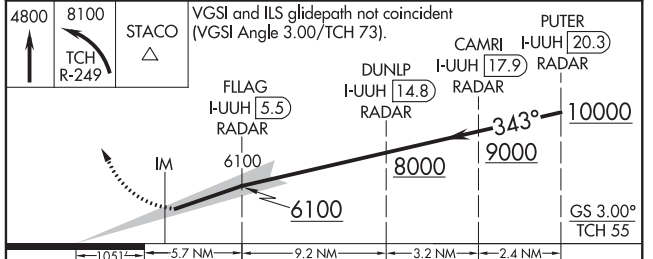
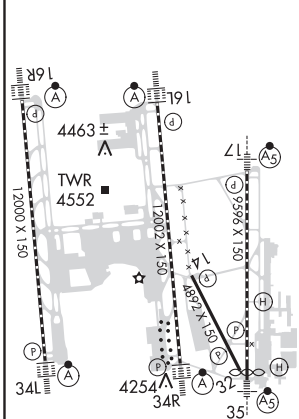
▽ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 34R, ILS RWY 34R (SA CAT I), ILS RWY 34R (CAT II), ILS RWY 34R (CAT III), RNAV (GPS) RWY 34R and the LDA RWY 35. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

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.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)			GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)
---	--	---	--	--	--



ELEV 4227	D	TDZE 4226
-----------	----------	-----------



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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-MOY 109.5 Chan 32	APP CRS 163°	Rwy Idg 12002 TDZE 4227 Apt Elev 4227
--	------------------------	--

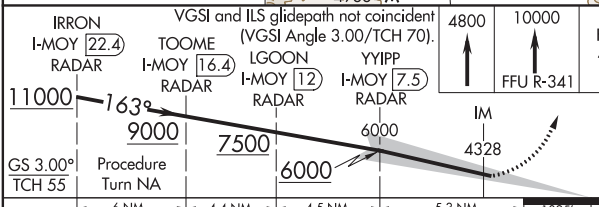
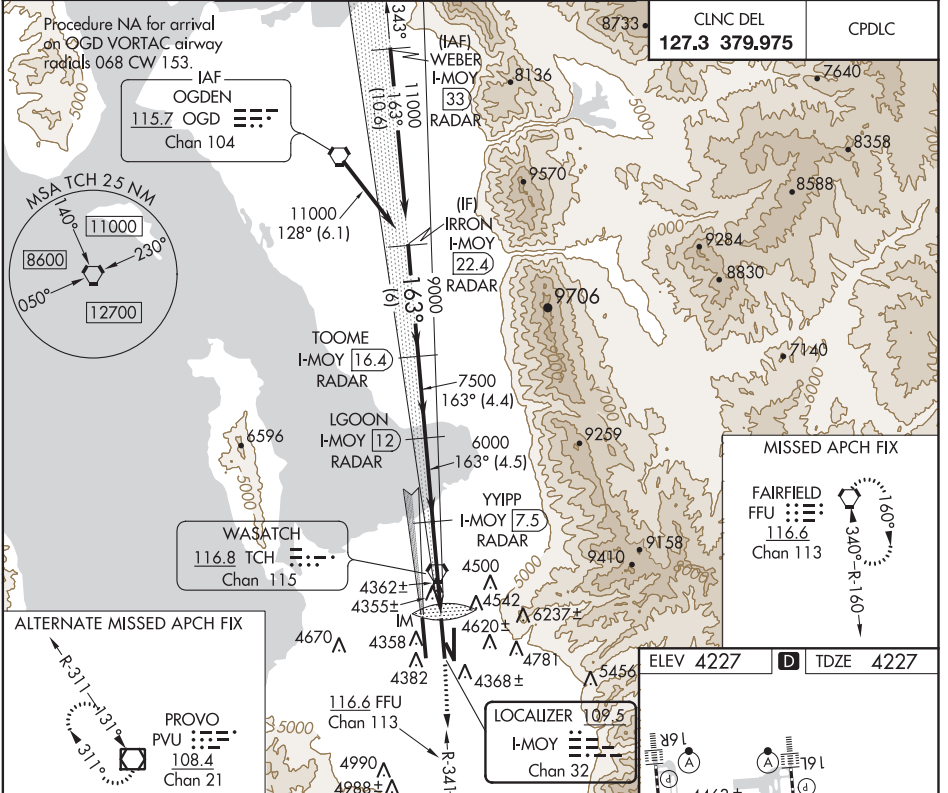
ILS RWY 16L (CAT II & III)

SALT LAKE CITY INTL (SLC)

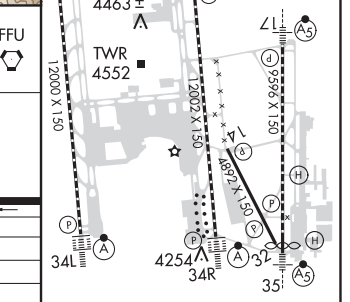
▼ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 16R, ILS RWY 16R (SA CAT I), ILS RWY 16R (CAT II), ILS RWY 16R (CAT III). CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

ALSIF-2
MISSED APPROACH: Climb to 4800 then climb to 10000 via FFU VORTAC R-341 to FFU VORTAC and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	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)	GND CON 121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)
---	--	--	---	--------------------------------------	--	---



IRRON I-MOY 22.4 RADAR	TOOME I-MOY 16.4 RADAR	LGOON I-MOY 12 RADAR	YVIPP I-MOY 7.5 RADAR	FFU
VGSi and ILS glidepath not coincident (VGSi Angle 3.00/TCH 70).				
11000	9000	7500	6000	4328
GS 3.00° TCH 55	Procedure Turn NA			
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			



HIRL all Rwys
TDZ/CL Rwys 16L, 16R, 17, 34L, 34R and 35

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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-UUH 111.9 Chan 56	APP CRS 343°	Rwy Idg TDZE 12000 4226	Apt Elev 4227
--	------------------------	---	-------------------------

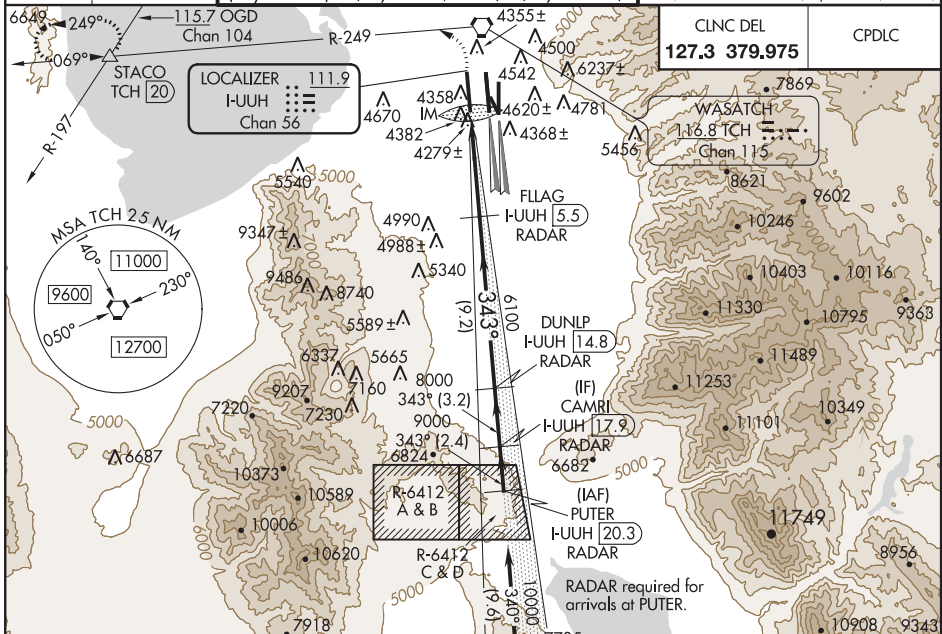
ILS RWY 34L (CAT II & III)

SALT LAKE CITY INTL (SLC)

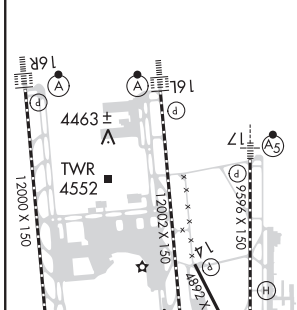
▼ DME or RADAR required. Simultaneous approach authorized with ILS or LOC RWY 34R, ILS RWY 34R (SA CAT II), ILS RWY 34R (CAT III), ILS RWY 34R (CAT III), RNAV (GPS) RWY 34R and the LDA RWY 35. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC or LOA approval and use of autoland or HUD to touchdown.

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.

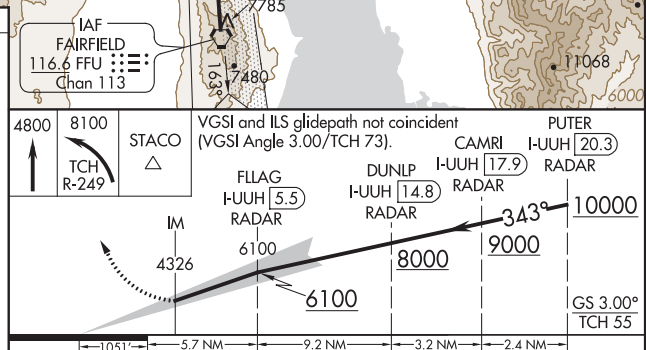
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 (Rwy 16L-34R) 118.3 257.8 (Rwys 14-32, 17-35) 132.65 336.4 (Rwy 16R-34L)	GND CON 121.9 348.6 (Rwys 14-32, 17-35) 123.775 348.6 (Rwys 16L-34R, 16R-34L)
---	---	---	---



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

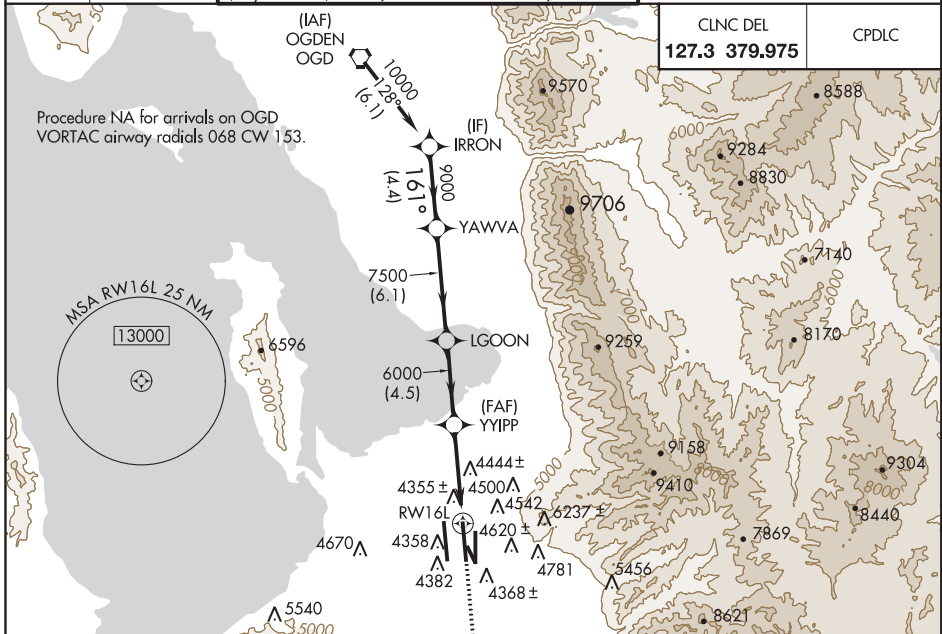
APP CRS	Rwy Idg	12002
161°	TDZE	4227
	Apt Elev	4227

RNAV (GPS) RWY 16L

SALT LAKE CITY INTL (SLC)

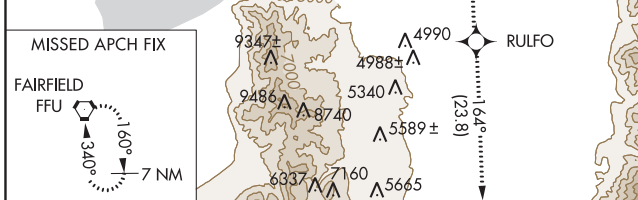
	For inoperative ALSF, increase LNAV Cat E visibility to 2. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 10000 direct RULFO and on track 164° to FFU VORTAC and hold.
	ALSF-2	

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	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)	GND CON 121.9 348.6 (Rwys 14-32, 17-35)	123.775 348.6 (Rwys 16L-34R, 16R-34L)
---	---	--	---	--------------------------------------	--	---

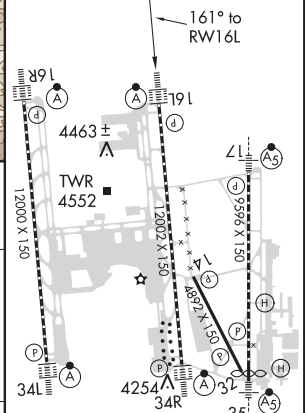
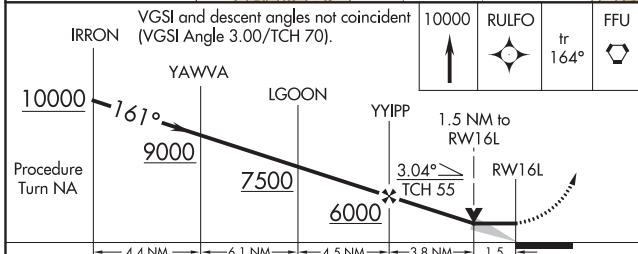


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 4227	TDZE 4227
-----------	-----------



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)

HIRL all Rwys
 TDZ/CL Rwys 16L, 16R, 17, 35,
 34L, and 34R

RNAV (GPS) RWY 16R

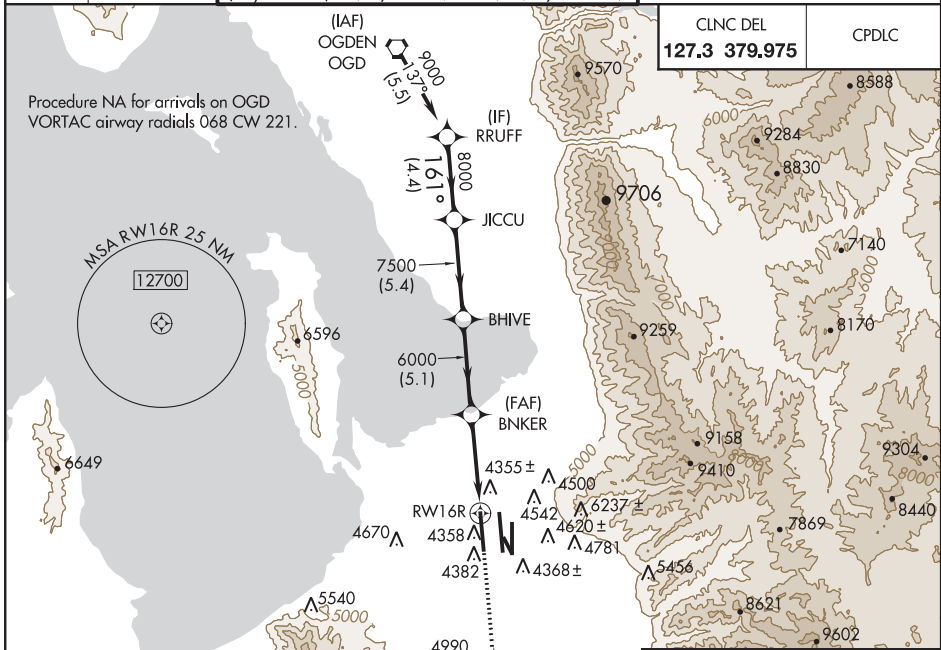
SALT LAKE CITY INTL (SLC)

APP CRS	Rwy Idg	12000
161°	TDZE	4223
	Apt Elev	4227

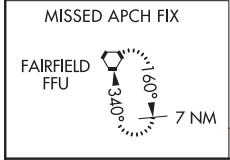
ALSF-2
 For inoperative ALSF, increase Cat E visibility to 1 1/4.
 DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 10000 direct BAURT and on track 161° to FFU VORTAC and hold.

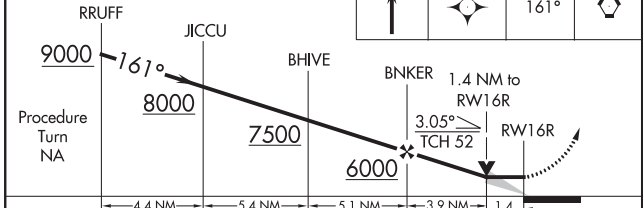
ATIS	SALT LAKE CITY APP CON	SALT LAKE CITY TOWER			GND CON		
124.75	124.3 322.3	119.05 257.8	118.3 257.8	132.65 336.4	121.9 348.6	123.775 348.6	
125.625		(Rwy 16L-34R)	(Rwys 14-32, 17-35)	(Rwy 16R-34L)	(Rwys 14-32, 17-35)	(Rwys 16L-34R, 16R-34L)	



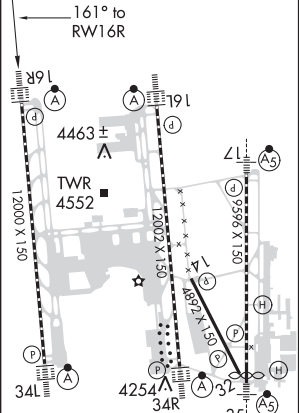
CLNC DEL	CPDLC
127.3 379.975	



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 73).



ELEV 4227	D TDZE 4223
-----------	--------------------



CATEGORY	A	B	C	D	E
LNAV MDA	4740/24	517 (600-1/2)	4740/50 517 (600-1)	4740/60	517 (600-1 1/4)

HIRL all Rwys
 TDZ/CL Rwys 16L, 16R, 17, 35, 34L, and 34R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 70432 W34B	APP CRS 341°	Rwy Idg TDZE Apt Elev	12000 4226 4227
--	------------------------	-----------------------------	--

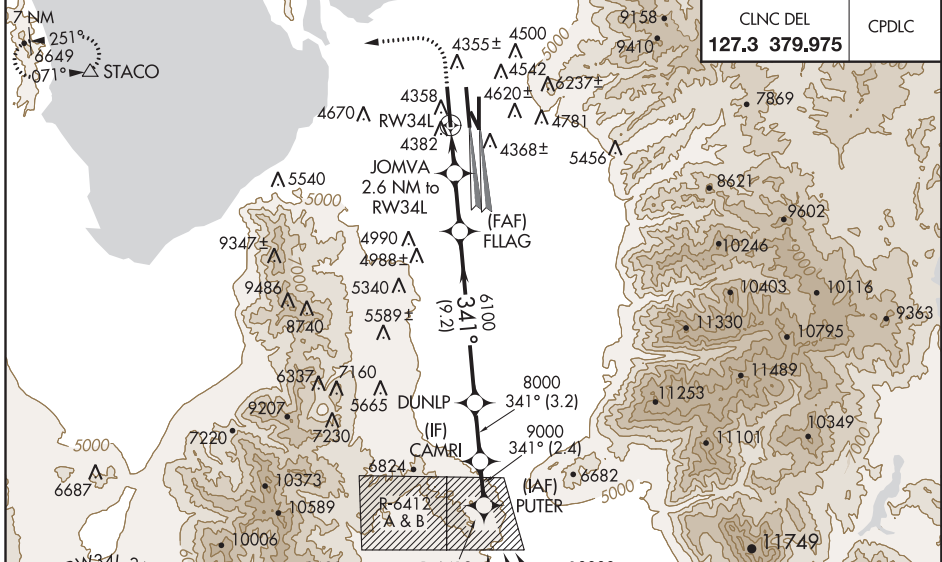
RNAV (GPS) RWY 34L

SALT LAKE CITY INTL (SLC)

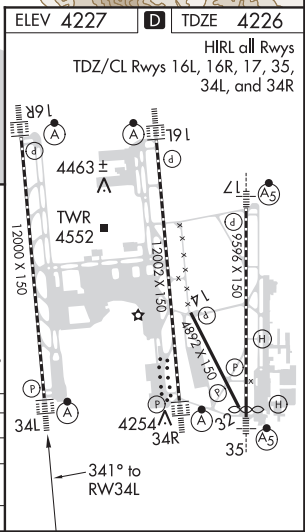
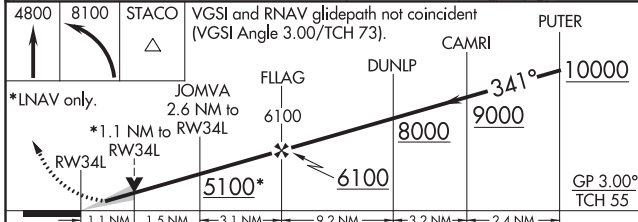
▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 49°C (121°F). For inop ALSF, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to RVR 6000, LNAV Cat E visibility to 1½ mile. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Simultaneous approach authorized with ILS or LOC RWY 34R, ILS RWY 34R (SA CAT I), ILS RWY 34R (CAT III), ILS RWY 34R (CAT III), RNAV (GPS) RWY 34R and LDA RWY 35. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

ALSF-2
MISSED APPROACH:
Climb to 4800 then climbing left turn to 8100 direct STACO and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)			GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)
---	--	---	--	--	--



ELEV 4227	D TDZE 4226
HIRL all Rwyys TDZ/CL Rwyys 16L, 16R, 17, 35, 34L, and 34R	



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 49230 W34A	APP CRS 341°	Rwy ldg TDZE Apt Elev	12002 4222 4227
--	------------------------	-----------------------------	--

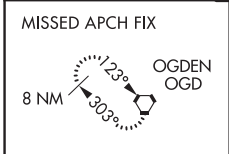
RNAV (GPS) RWY 34R

SALT LAKE CITY INTL (SLC)

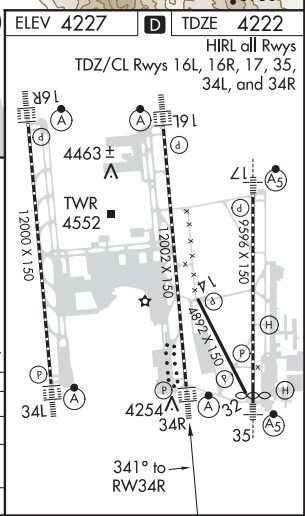
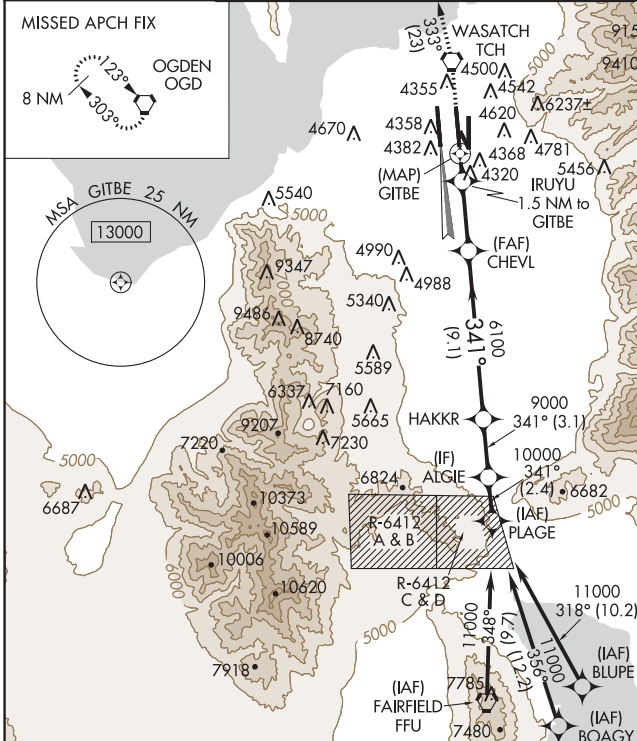
NA DME/DME RNP-0.3 NA. Simultaneous approach authorized with ILS or LOC RWY 34L, ILS RWY 34L (SA CAT I), ILS RWY 34L (CAT II), ILS RWY 34L (CAT III), RNAV (GPS) RWY 34L, and LDA RWY 35. Use of FD or AP providing RNAV track guidance required during simultaneous operations. LNAV procedure NA during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (1°F) or above 49°C (121°F). For inop ALSF, increase LPV Cat E visibility to 3/4, LNAV/VNAV Cat E visibility to 1/4 and LNAV Cats C/D/E to 1/3 mile

ALSF-2
MISSED APPROACH: Climb to 9000 direct TCH VORTAC and on track 333° to OGD VORTAC and hold.

ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)			GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwy 16L-34R, 16R-34L)	
---	---	---	--	--	---	--



CLNC DEL 127.3 379.975	CPDLC
----------------------------------	-------



9000 TCH	tr 333°	OGD	VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 73).				
*LNAV only.			IRUYU 1.5 NM to GITBE	CHEVL 6100	9000	10000	11000
*0.8 NM to GITBE			GITBE	4900	6100	GP 3.00° TCH 53	
0.4 0.8 0.7 NM			3.8 NM	9.1 NM	3.1 NM	2.4 NM	
CATEGORY	A		B	C	D	E	
LPV DA	4422/24		200 (200-1/2)				
LNAV/VNAV DA	4735/60		513 (600-1/4)				
LNAV MDA	4700/24		478 (500-1/2)	4700/50		478 (500-1)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 77722 W35A	APP CRS 341°	Rwy Idg TDZE Apt Elev	9273 4224 4227
--	------------------------	-----------------------------	---

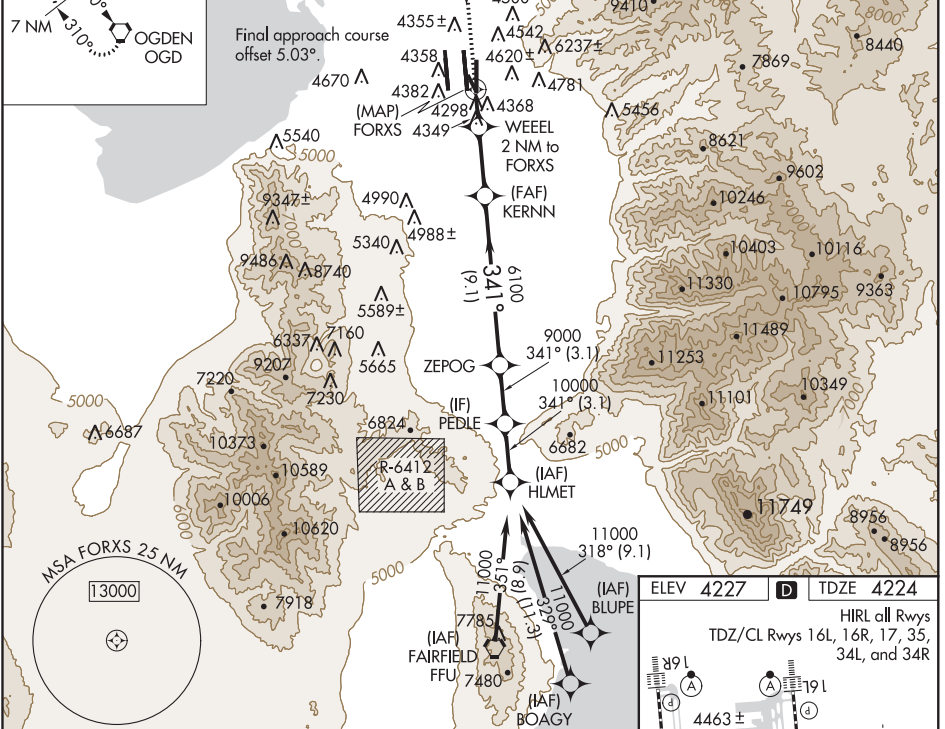
RNAV (GPS) RWY 35

SALT LAKE CITY INTL (SLC)

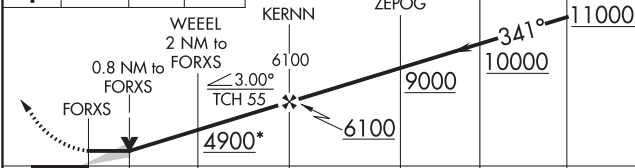
<p>▼ DME/DME RNP-0.3 NA. For inoperative MALSR, increase LP Cats C, D, and E to RVR 5000, increase LNAV Cat E to 1½ miles.</p>	<p>MALSR</p>	<p>MISSED APPROACH: Climb to 9000 direct KNOBY and on track 331° to OGD VORTAC and hold.</p>
--	--------------	--

<p>ATIS 124.75 125.625</p>	<p>SALT LAKE CITY APP CON 124.3 322.3</p>	<p>SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 (Rwys 16L-34R) (Rwys 14-32, 17-35)</p>	<p>132.65 336.4 (Rwy 16R-34L)</p>	<p>GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)</p>
--	--	--	--	---

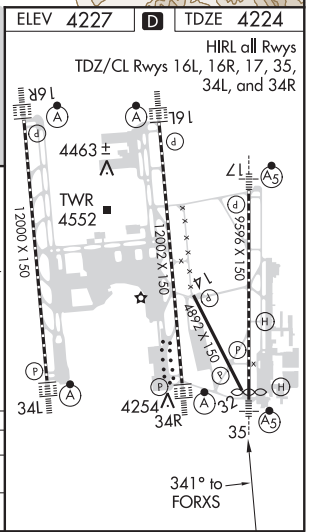
<p>MISSED APCH FIX</p>	<p>CLNC DEL 127.3 379.975</p>	<p>CPDLC</p>
------------------------	--	--------------



<p>9000</p>	<p>KNOBY</p>	<p>OGD</p>	<p>VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 74).</p>
-------------	--------------	------------	---



<p>CATEGORY</p>	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>	<p>E</p>
<p>LP MDA</p>	<p>4560/24</p>	<p>336 (400-½)</p>	<p>4560/40</p>	<p>336 (400-¾)</p>	
<p>LNAV MDA</p>	<p>4680/24</p>	<p>456 (500-½)</p>	<p>4680/45</p>	<p>456 (500-¾)</p>	



SW-4, 10 NOV 2016 to 05 JAN 2017

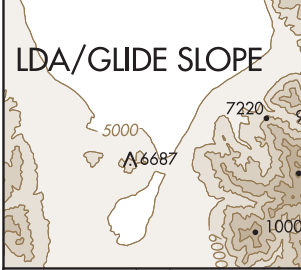
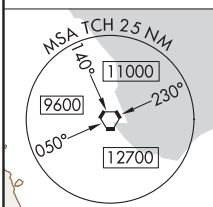
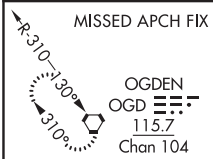
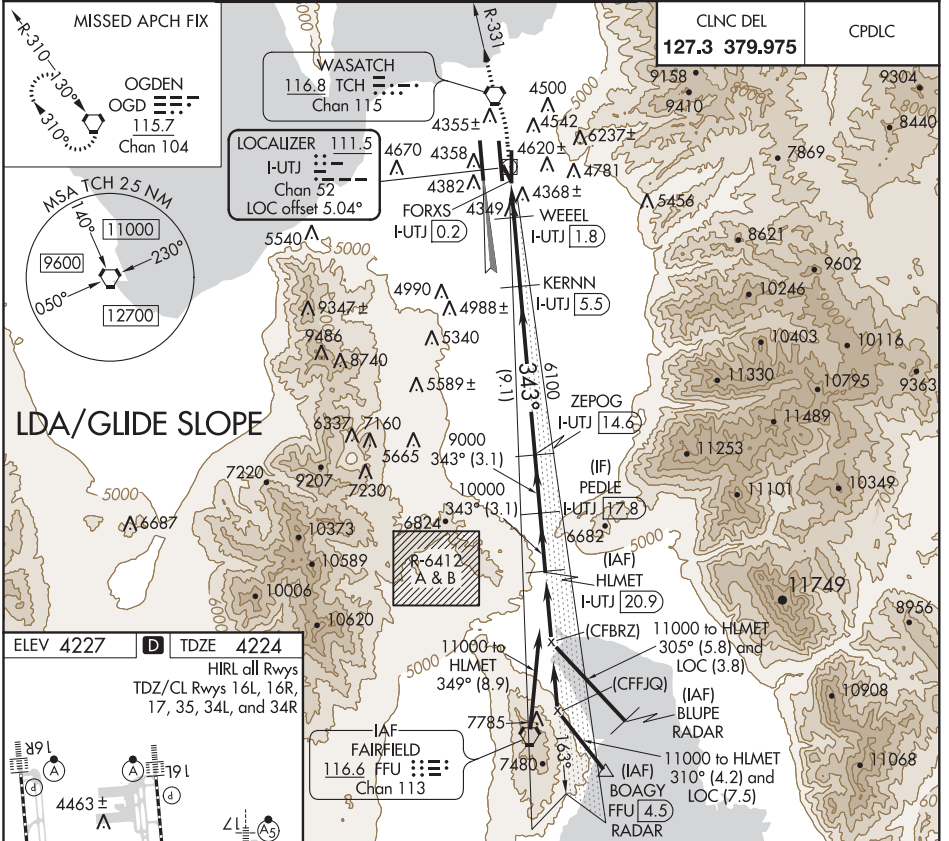
SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-UTJ 111.5 Chan 52	APP CRS 343°	Rwy Idg TDZE Apt Elev	9273 4224 4227
--	------------------------	-----------------------------	---

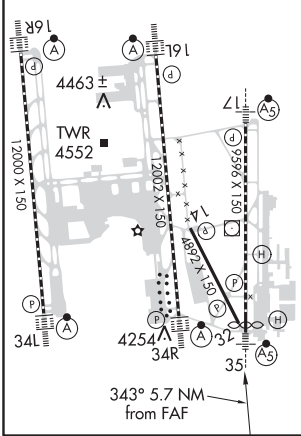
LDA/DME RWY 35

SALT LAKE CITY INTL (SLC)

<p>For inop MALSR, increase S-LDA/GS 35 Cat E visibility to VFR 4000, increase S-LDA 35 Cat E visibility to 1 1/4 miles. Simultaneous approach authorized with Rwy 34L.</p>		<p>MALSR</p>	<p>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.</p>
ATIS 124.75 125.625	SALT LAKE CITY APP CON 124.3 322.3	SALT LAKE CITY TOWER 119.05 257.8 118.3 257.8 132.65 336.4 (Rwy 16L-34R) (Rwys 14-32, 17-35) (Rwy 16R-34L)	
		GND CON 121.9 348.6 123.775 348.6 (Rwys 14-32, 17-35) (Rwys 16L-34R, 16R-34L)	



ELEV 4227	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).
<p>*LDA only</p> <p>I-UTJ DME ANT. FORXS I-UTJ 0.2</p> <p>WEEL I-UTJ 1.8</p> <p>KERNN I-UTJ 5.5</p> <p>ZEPOG I-UTJ 14.6</p> <p>PEDLE I-UTJ 17.8</p> <p>HLMET I-UTJ 20.9</p>					<p>11000</p> <p>9000</p> <p>10000</p> <p>343°</p> <p>GS 3.00° TCH 55</p>
<p>1.1 NM 0.9 NM 3.7 NM 9.1 NM 3.1 NM 3.1 NM</p>					
CATEGORY					A B C D E
S-LDA/GS 35					4474/24 250 (300-1/2)
S-LDA 35					4660/24 436 (500-1/2) 4660/40 436 (500-3/4)

SW-4, 10 NOV 2016 to 05 JAN 2017

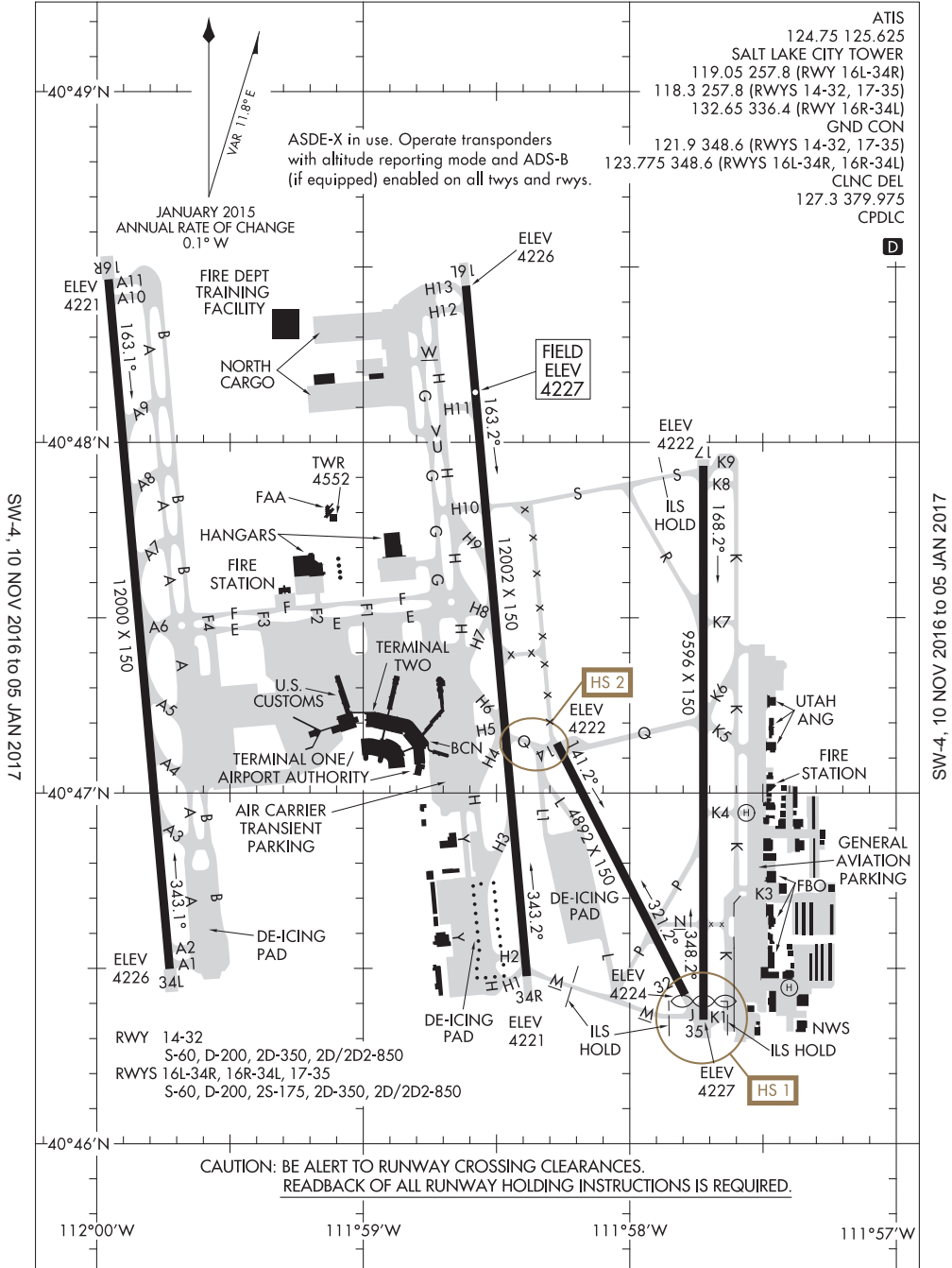
SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)

SALT LAKE CITY, UTAH



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

SALT LAKE CITY, UTAH

SALT LAKE CITY INTL (SLC)

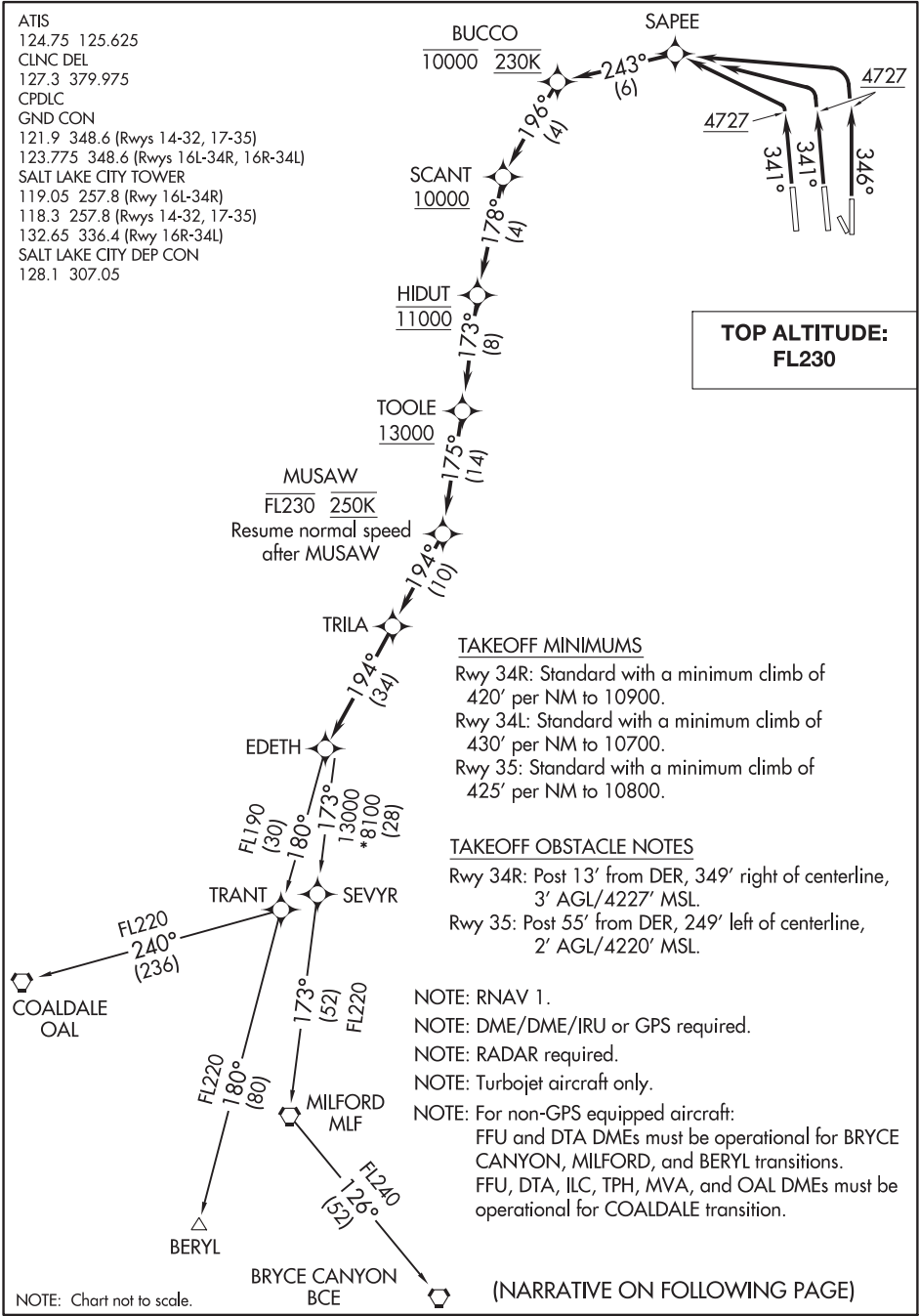
(EDETH4.EDETH) 16315

EDETH FOUR DEPARTURE (RNAV)

SL-365 (FAA)

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

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



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

EDETH FOUR DEPARTURE (RNAV)

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

(EDETH4.EDETH) 10NOV16



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct SAPEE, then on depicted route to EETH, thence. . . .

TAKEOFF RUNWAY 34L: Climb heading 341° to 4727, then left turn direct SAPEE, then on depicted route to EETH, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct SAPEE, then on depicted route to EETH, thence. . . .

. . . .on (transition) maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

BERYL TRANSITION (EETH4.BERYL)

BRYCE CANYON TRANSITION (EETH4.BCE)

COALDALE TRANSITION (EETH4.OAL)

MILFORD TRANSITION (EETH4.MLF)

LOST COMMUNICATIONS: Continue on SID. Comply with published altitude restrictions.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(FFU8.FFU) 16259

FAIRFIELD EIGHT DEPARTURE

SL-365 (FAA)

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

ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
SALT LAKE CITY DEP CON
124.3 322.3

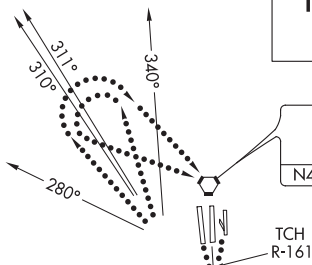
**TOP ALTITUDE:
10000**

TAKEOFF MINIMUMS

Rwys 14, 32, 34L, 34R, 35: NA- Operational.
Rwys 16L, 16R, 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.

TAKEOFF OBSTACLE NOTES

Rwy 16L: Vehicle 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 beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL.



WASATCH
116.8 TCH
Chan 115
N40°51.02'-W111°58.91'

FAIRFIELD
116.6 FFU
Chan 113
N40°16.49'-W111°56.43'

DELTA
116.1 DTA
Chan 108
N39°18.13'-W112°30.33'

MILFORD
112.1 MLF
Chan 58
N38°21.62'-W113°00.79'
L-9, H-3

TONOPAHA
117.2 TPH
Chan 119
N38°01.84'-W117°02.01'

FL180 *11400 R-070 (35)
FL180 *12400 R-066 (126)
V244

J58-80
FL180 *12000 R-026 (66)
V244

WILSON CREEK
116.3 ILC
Chan 110
N38°15.01'-W114°23.65'

COALDALE
117.7 OAL
Chan 124
N38°00.20'-W117°46.23'
L-9, H-3

BRYCE CANYON
112.8 BCE
Chan 75
N37°41.35'-W112°18.23'
L-9, H-3

LODUY
N39°28.04'
W112°03.41'

OHQES
N39°33.18'
W111°37.33'
FL190

URNUW
N39°08.05'
W112°06.25'

HANKSVILLE
115.9 HVE
Chan 106
N38°25.01'-W110°41.98'
L-9, H-3

NOTE: RADAR required.
NOTE: This is a RADAR vector departure to assigned route or fix.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

FAIRFIELD EIGHT DEPARTURE

(FFU8.FFU) 30APR15

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



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L, 16R, 17: Climb heading 160° or as assigned, maintain 10000' or assigned lower altitude. Thence

. . . . Expect radar vectors to FFU VORTAC then via 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, 16R, 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 (FFU8.BCE): From over FFU VORTAC via FFU R-170 and BCE R-351 to BCE VORTAC.

COALDALE TRANSITION (FFU8.OAL): From over FFU VORTAC via FFU R-170 and MLF R-026 to MLF VORTAC. Then via MLF R-249 and ILC R-068 to ILC VORTAC. Then via ILC R-249 and TPH R-066 to TPH VORTAC. Then via TPH R-251 and OAL R-070 to OAL VORTAC.

HANKSVILLE TRANSITION (FFU8.HVE): From over FFU VORTAC via FFU R-145 and HVE R-313 to HVE VORTAC.

MILFORD TRANSITION (FFU8.MLF): From over FFU VORTAC via FFU R-170 and MLF R-026 to MLF VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

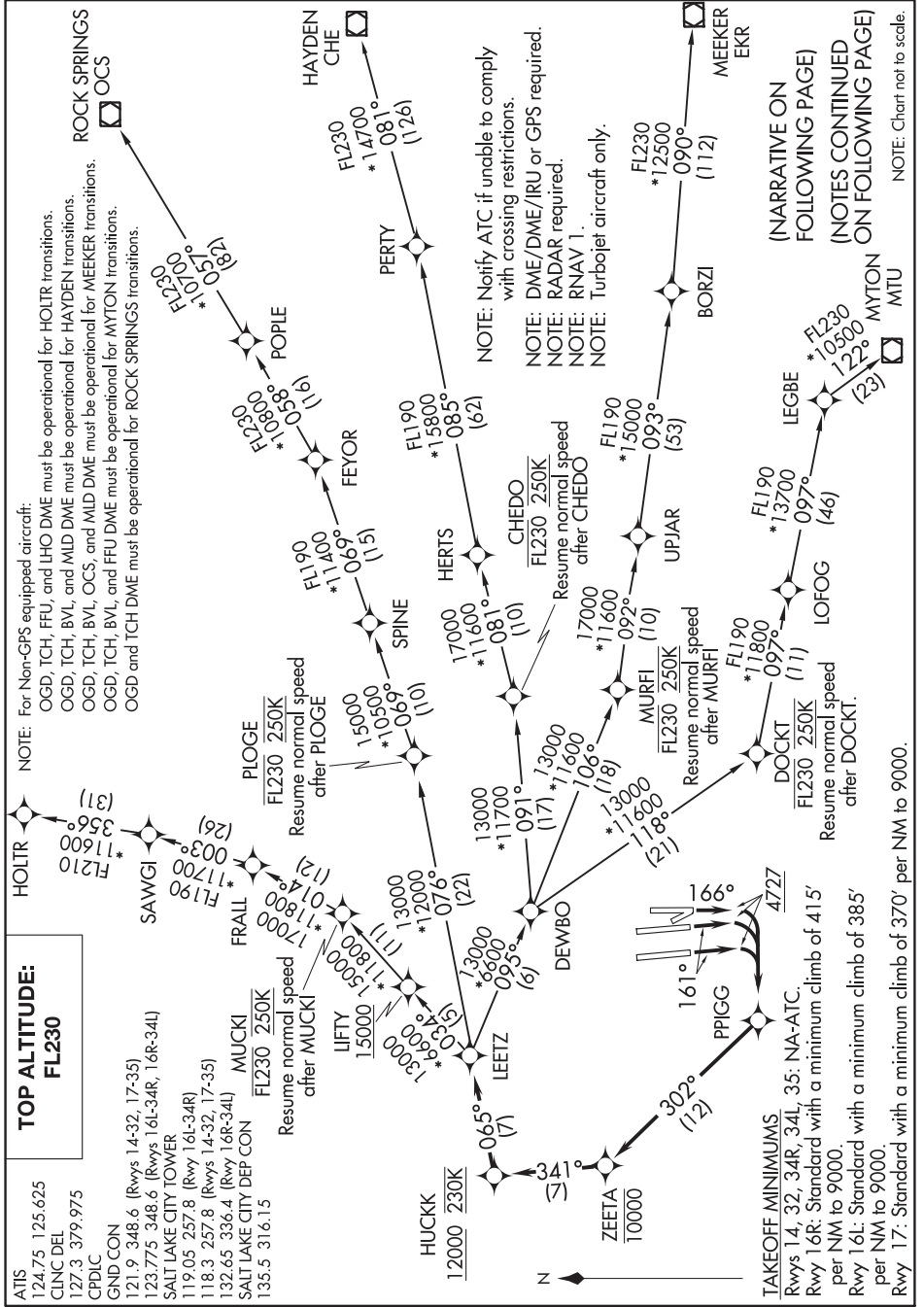
SW-4, 10 NOV 2016 to 05 JAN 2017

LEETZ FIVE DEPARTURE (RNAV)

SL-365 (FAA)

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

7 101 01 01 201 201 05 JAN 2017



NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

LEETZ FIVE DEPARTURE (RNAV)

(LEETZ5.LEETZ) 31MARI6

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



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16R/16L: Climb heading 161° to 4727, then right turn direct PPIGG, then on depicted route to LEETZ, thence. . . .

TAKEOFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then on depicted route to LEETZ, thence. . . .

. . . (transition). Maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Continue on SID. Comply with published altitude restrictions.

HAYDEN TRANSITION (LEETZ5.CHE)

HOLTR TRANSITION (LEETZ5.HOLTR)

MEEKER TRANSITION (LEETZ5.EKR)

MYTON TRANSITION (LEETZ5.MTU)

ROCK SPRINGS TRANSITION (LEETZ5.OCS)

TAKEOFF OBSTACLES NOTES

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.

Rwy 17: Vehicles on road beginning 335' from DER, on centerline, 17' AGL/4241' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 34R: Climb heading 341° to 4727, then left turn direct RATIO, then on depicted route to NSIGN, thence. . . .

TAKEOFF RUNWAY 34L: Climb heading 341° to 4727, then direct WETIK, then on depicted route to NSIGN, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct MELEC, then on depicted route to NSIGN, thence. . . .

. . . .(transition) maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Continue on SID. Comply with published altitude restrictions.

HAYDEN TRANSITION (NSIGN4.CHE)

HOLTR TRANSITION (NSIGN4.HOLTR)

MEEKER TRANSITION (NSIGN4.EKR)

MYTON TRANSITION (NSIGN4.MTU)

ROCK SPRINGS TRANSITION (NSIGN4.OCs)

TAKEOFF OBSTACLES NOTES

Rwy 34R: Pole 13' from DER, 349' right of centerline, 3' AGL/4227' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16L/R: Climb heading 161° to 4727, then right turn direct PPIGG, then on depicted route to PECOP, thence. . . .

TAKEOFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then on depicted route to PECOP, thence. . . .

TAKEOFF RUNWAYS 34L/R: Climb heading 341° to 4727, then left turn direct MOZEL, then on depicted route to PECOP, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct MOZEL, then on depicted route to PECOP, thence. . . .

. . . .via (transition) maintain 15000 or lower filed altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Continue on SID. Comply with published altitude restrictions.

BATTLE MOUNTAIN TRANSITION (PECOP4.BAM)

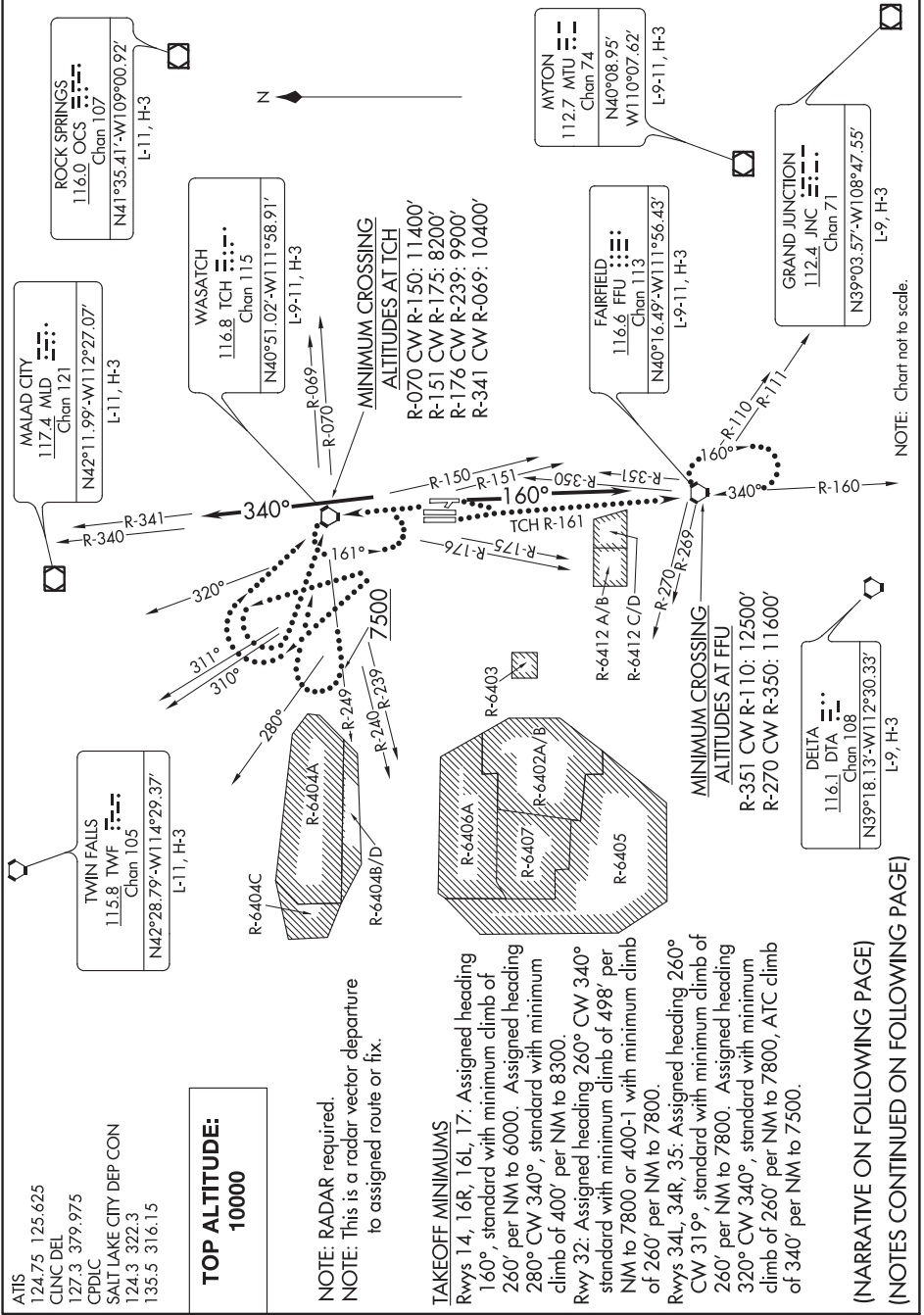
MINA TRANSITION (PECOP4.MVA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017





DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 14, 16L, 16R, 17: Climb heading 160° or as assigned, maintain 10000' or assigned lower altitude. Thence

TAKEOFF RUNWAYS 32, 34L, 34R, 35: Climb heading 340° 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 331° CW 109° 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 160°, turn right thence

RUNWAY 16R: Assigned heading 160°, turn left thence

. . . . climb to 11000' via 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 (hold south, right turns, 340° inbound) 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 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

. . . . 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 via TCH R-249 to 7500', then climbing right turn direct TCH VORTAC. Continue climb in TCH VORTAC holding pattern (hold south, left turn, 341° inbound) 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.

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 5266' from DER, 1767' left of centerline, 335' AGL/4549' MSL.

Crane 5195' from DER, 1630' left of centerline, 240' AGL/4463' MSL.

Flag on obstacle light 5153' from DER, 1619' left of centerline, 249' AGL/4463' MSL.

Aircraft beginning 989' from DER, 722' left of centerline, up to 79' AGL/4306' MSL.

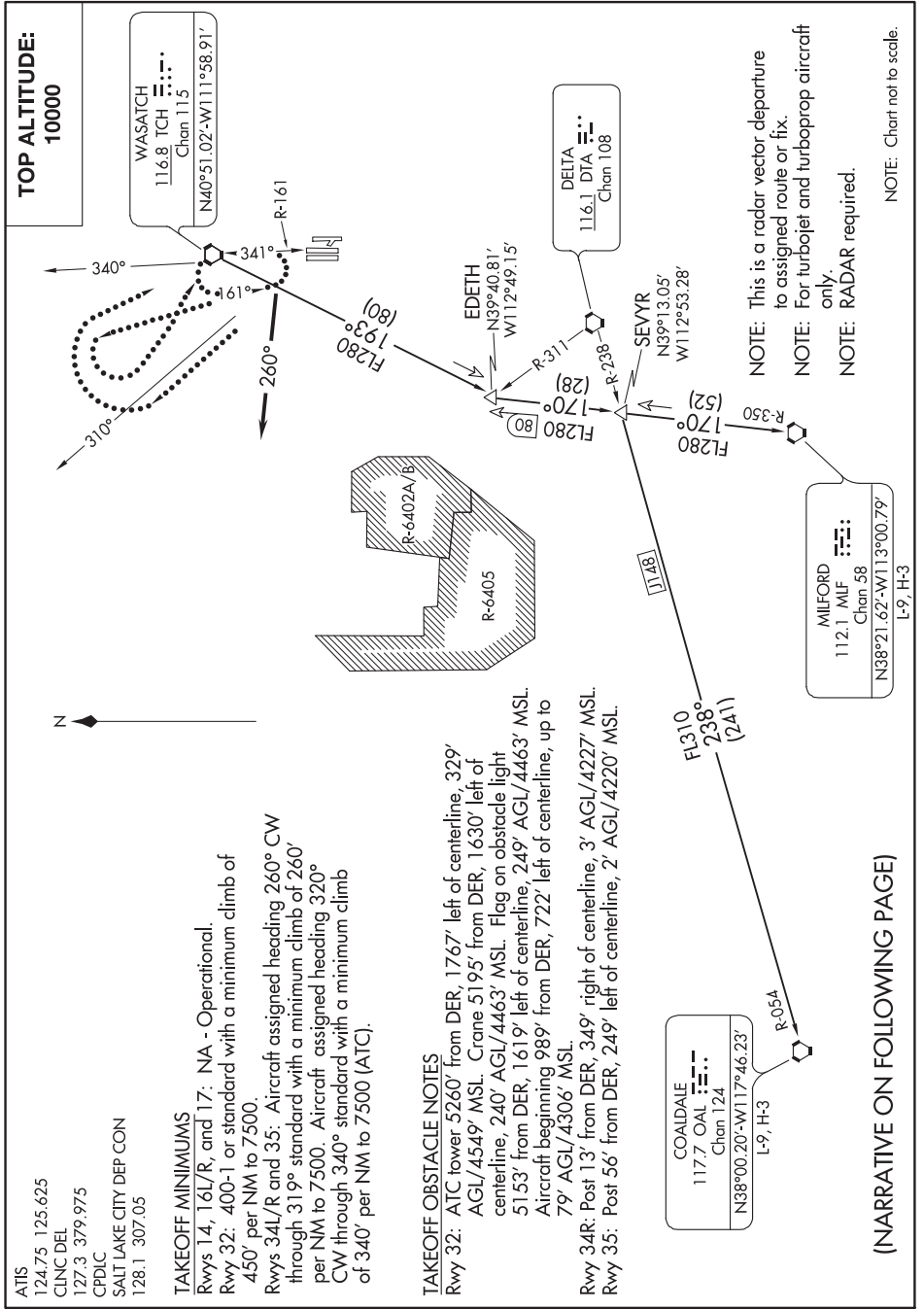
Rwy 34R: Post 13' from DER, 349' right of centerline, 3' AGL/4227' MSL.

Rwy 35: Post 56' from DER, 249' left of centerline, 2' AGL/4220' MSL.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ATIS 124.75 125.625
 CLNCDEL 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 260° CW through 319° standard with a minimum climb of 260' per NM to 7500. Aircraft assigned heading 320° CW through 340° standard with a minimum climb of 340' per NM to 7500 (ATC).

TAKEOFF OBSTACLE NOTES

Rwy 32: ATC tower 5260' from DER, 1767' left of centerline, 329' AGL/4549' MSL. Crane 5195' from DER, 1630' left of centerline, 240' AGL/4463' MSL. Flag on obstacle light 5153' from DER, 1619' left of centerline, 249' AGL/4463' MSL. Aircraft beginning 989' 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.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 32, 34L/R, and 35: Fly heading 260° 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 310° CW through 340°, execute a climbing left turn, all others execute a climbing right turn to TCH VORTAC. Continue climb in the TCH VORTAC holding pattern (hold south, left turn, 341° inbound) to cross TCH VORTAC at or above 11500. Proceed on course.

COALDALE TRANSITION (SEVYR2.OAL): From over TCH VORTAC via TCH R-193 and MLF R-350 to SEVYR, then via DTA R-238 and OAL R-054 to OAL VORTAC.

MILFORD TRANSITION (SEVYR2.MLF): From over TCH VORTAC via TCH R-193 and MLF R-350 to MLF VORTAC.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(TWF3.TWF) 16259

TWIN FALLS THREE DEPARTURE (RNAV)

SL-365 (FAA)

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

**TOP ALTITUDE:
FL230**

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 OBSTACLE NOTES

- 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 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.

TWIN FALLS
TWF

SCOVL

MOFER

FL230 250K

Resume normal speed
after MOFER.

CGULL
15000

BOYNT
13000

CZAAR
11000

JIORE
11000

SHOLZ
10000 230K

WAZER
10000 230K

PPIGG

- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: RADAR required.
- NOTE: Turbojet aircraft only.
- NOTE: For non-GPS equipped aircraft: OGD and TCH DMEs must be operational.

TAKEOFF MINIMUMS

- Rwy 16R: Standard with a minimum climb of 413' per NM to 8300.
- Rwy 16L: Standard with a minimum climb of 381' per NM to 8300.
- Rwy 17: Standard with a minimum climb of 367' per NM to 7800.
- Rwy 34R: Standard with a minimum climb of 238' per NM to 7700.
- Rwy 34L: Standard with a minimum climb of 253' per NM to 7700.
- Rwy 35: Standard with a minimum climb of 226' per NM to 7700.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TWIN FALLS THREE DEPARTURE (RNAV)

(TWF3.TWF) 30APR15

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

TWIN FALLS THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 16R/16L: Climb heading 161° to 4727, then right turn direct PPIGG, then via depicted route to TWF VORTAC, thence. . . .

TAKEOFF RUNWAY 17: Climb heading 166° to 4727, then right turn direct PPIGG, then via depicted route to TWF VORTAC, thence. . . .

TAKEOFF RUNWAYS 34R/34L: Climb heading 341° to 4727, then left turn direct to cross SHOLZ at/below 10000 and at 230K, then via depicted route to TWF VORTAC, thence. . . .

TAKEOFF RUNWAY 35: Climb heading 346° to 4727, then left turn direct to cross SHOLZ at/below 10000 and at 230K, then via depicted route to TWF VORTAC, thence. . . .

. . . .maintain FL230 or lower filed altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Continue on SID. Comply with published altitude restrictions.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(WEVIC4.WEVIC) 16259

WEVIC FOUR DEPARTURE (RNAV)

SL-365 (FAA)

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

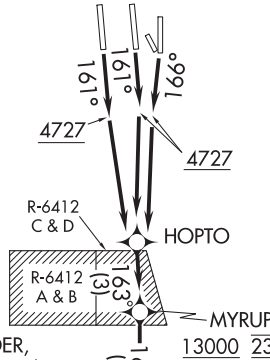
ATIS
124.75 125.625
CLNC DEL
127.3 379.975
CPDLC
GND CON
121.9 348.6 (Rwys 14-32, 17-35)
123.775 348.6 (Rwys 16L-34R, 16R-34L)
SALT LAKE CITY TOWER
119.05 257.8 (Rwy 16L-34R)
118.3 257.8 (Rwys 14-32, 17-35)
132.65 336.4 (Rwy 16R-34L)
SALT LAKE CITY DEP CON
124.3 322.3

TOP ALTITUDE:
16000

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

TAKEOFF OBSTACLE NOTES

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 beginning 335' from DER, on centerline, up to 17' AGL/4241' MSL.

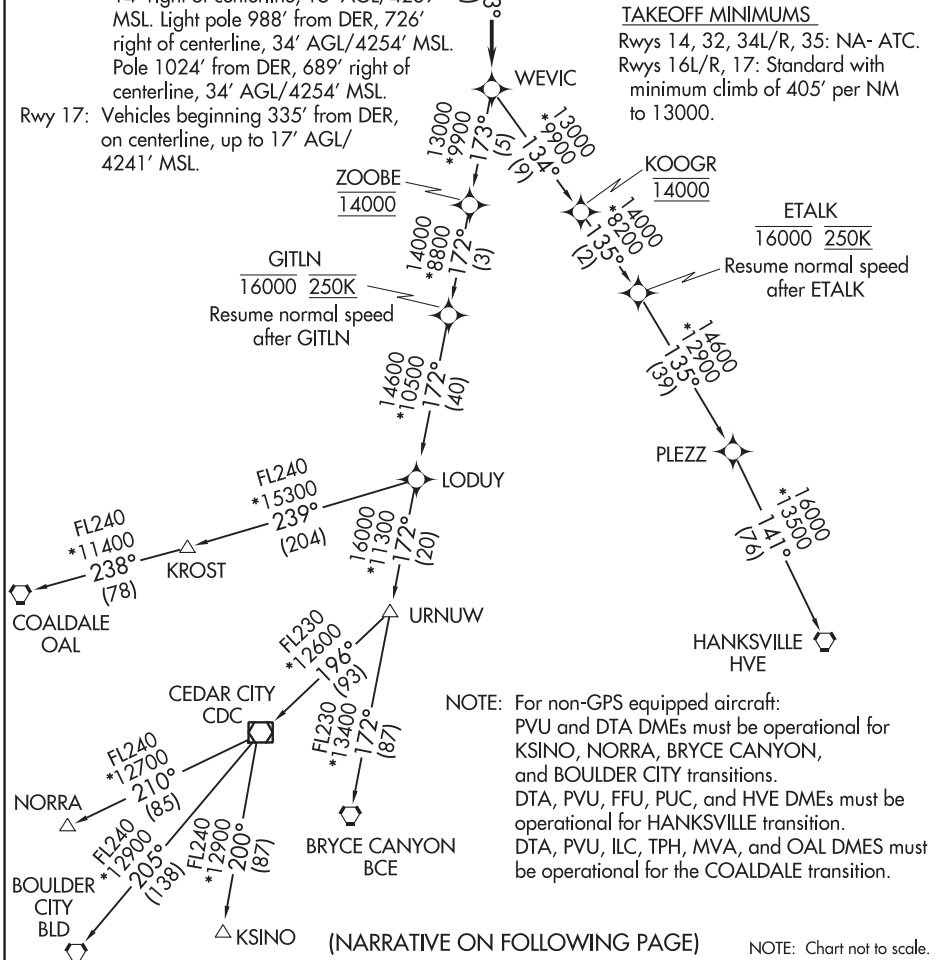


TAKEOFF MINIMUMS

Rwys 14, 32, 34L/R, 35: NA-ATC.
Rwys 16L/R, 17: Standard with minimum climb of 405' per NM to 13000.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



NOTE: For non-GPS equipped aircraft: PVU and DTA DMEs must be operational for KSINO, NORRA, BRYCE CANYON, and BOULDER CITY transitions. DTA, PVU, FFU, PUC, and HVE DMEs must be operational for HANKSVILLE transition. DTA, PVU, ILC, TPH, MVA, and OAL DMEs must be operational for the COALDALE transition.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

WEVIC FOUR DEPARTURE (RNAV)

(WEVIC4.WEVIC) 30APR15

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



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16R: Climb heading 161° to 4727, then left turn direct HOPTO, then on depicted route to WEVIC, thence. . . .

TAKEOFF RUNWAY 16L: Climb heading 161° to 4727, then right turn direct HOPTO, then on depicted route to WEVIC, thence. . . .

TAKEOFF RUNWAY 17: Climb heading 166° to 4727, then left turn direct HOPTO, then on depicted route to WEVIC, thence. . . .

. . . .(transition) maintain 16000 or lower filed altitude. Expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Continue on SID, comply with published altitude restrictions.

BOULDER CITY TRANSITION (WEVIC4.BLD)

BRYCE CANYON TRANSITION (WEVIC4.BCE)

COALDALE TRANSITION (WEVIC4.OAL)

HANKSVILLE TRANSITION (WEVIC4.HVE)

KSINO TRANSITION (WEVIC4.KSINO)

NORRA TRANSITION (WEVIC4.NORRA)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SALT LAKE CITY, UTAH

AL-366 (FAA)

16315

APP CRS	Rwy Idg	5862
338°	TDZE	4606
	Apt Elev	4606

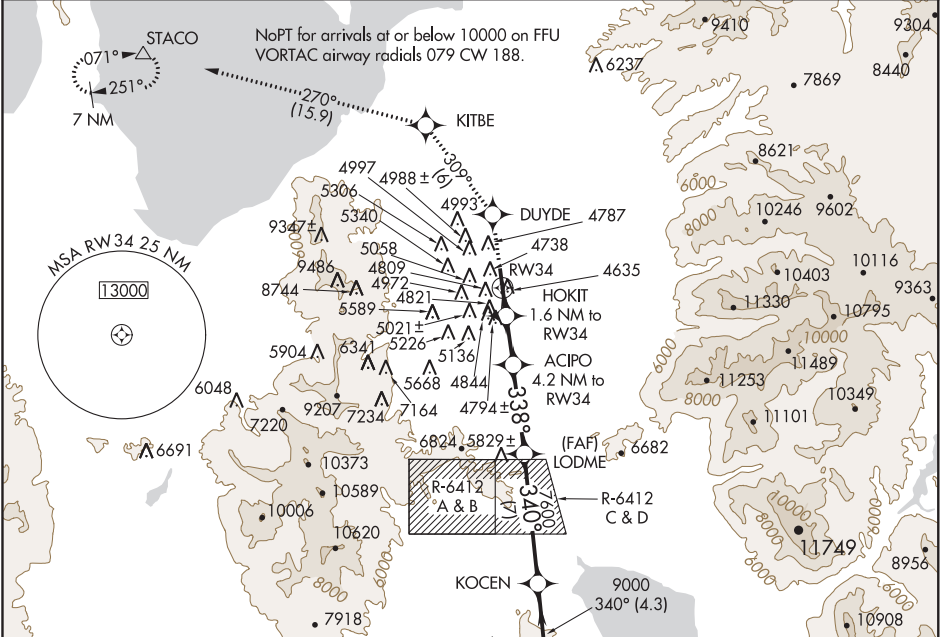
RNAV (GPS) Y RWY 34

SOUTH VALLEY RGNL (U42)

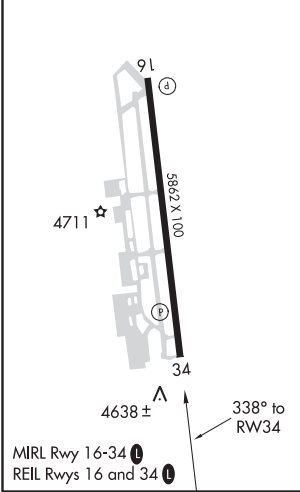
NA DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all MDAs 80 feet.
VDP NA when using Salt Lake City Intl altimeter setting.

MISSED APPROACH: Climb to 9000 direct DUYDE and via 309° track to KITBE and via 270° track to STACO and hold.

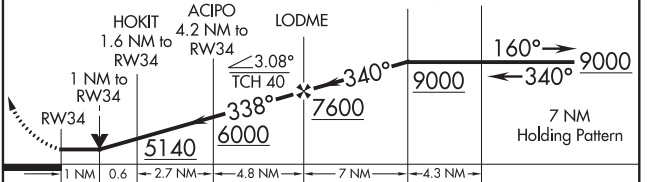
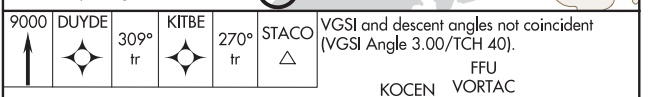
AWOS-3 134.425	SALT LAKE CITY APP CON 120.9 124.3 322.3	CLNC DEL 127.0	UNICOM 122.7 (CTAF)
--------------------------	--	--------------------------	-------------------------------



ELEV 4606	TDZE 4606
-----------	-----------



All arrivals descend to 10000 in FFU VORTAC holding pattern before departing FFU VORTAC.



CATEGORY	A	B	C	D
RNAV MDA	5060-1	454 (500-1)	5060-1¼ 454 (500-1¼)	5060-1½ 454 (500-1½)
CIRCLING	5140-1 534 (600-1)	5200-1 594 (600-1)	5360-2¼ 754 (800-2¼)	5460-2¾ 854 (900-2¾)

SALT LAKE CITY, UTAH
Orig-B 21AUG14

40°37'N-112°00'W

RNAV (GPS) Y RWY 34

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 338°	Rwy Idg 5862
	TDZE 4606
	Apt Elev 4607

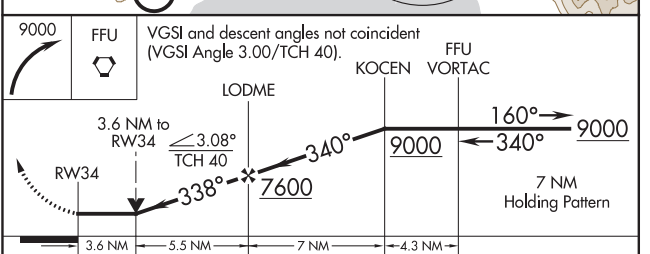
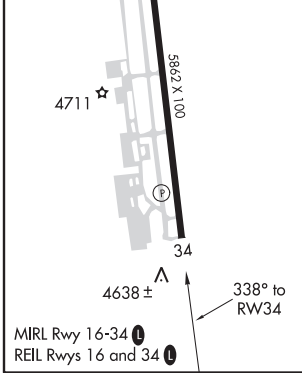
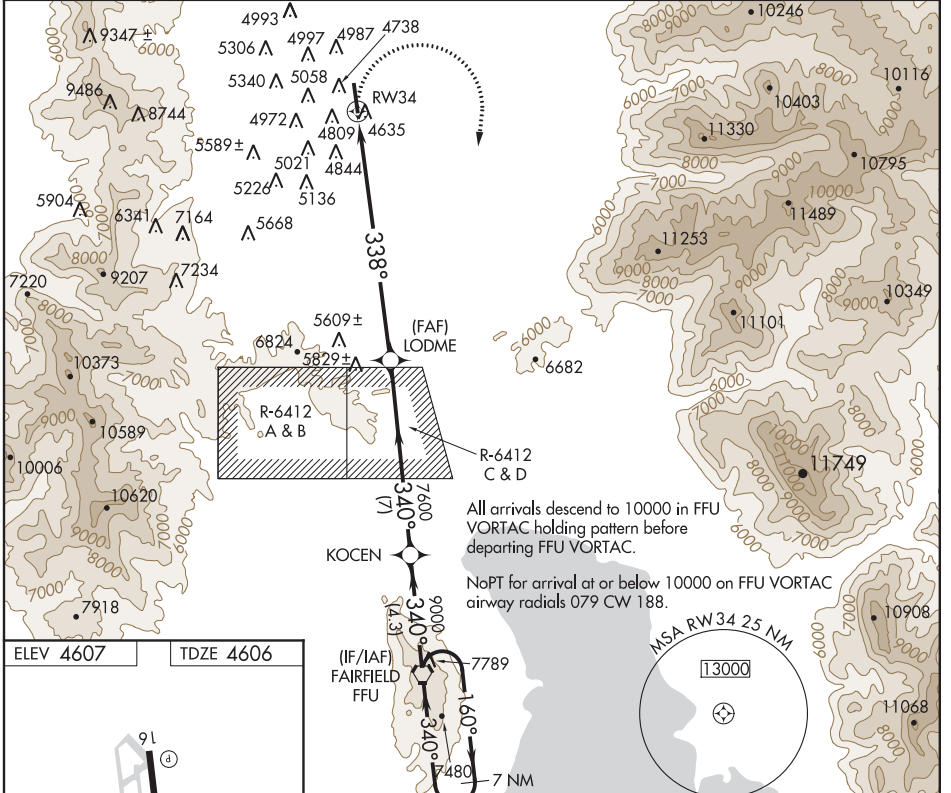
RNAV (GPS) Z RWY 34

SOUTH VALLEY RGNL (U42)

▽ DME/DME RNP-0.3 NA.
△ NA If local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all MDAs 80 feet.
 VDP NA when using Salt Lake City Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 9000 direct FFU VORTAC and hold.

AWOS-3 134.425	SALT LAKE CITY APP CON 120.9 124.3 322.3	CLNC DEL 127.0	UNICOM 122.7 (CTAF) 0
--------------------------	--	--------------------------	---------------------------------



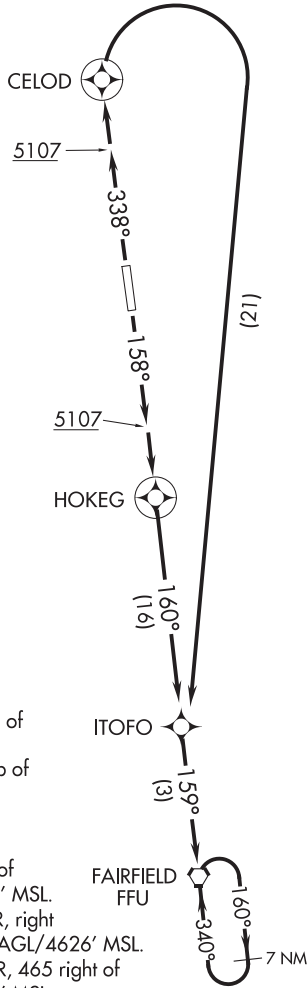
CATEGORY	A	B	C	D
LNNAV MDA	6160-1¼ 1554 (1600-1¼)	6160-1½ 1554 (1600-1½)	6160-3	1554 (1600-3)
CIRCLING	6160-1¼ 1553 (1600-1¼)	6160-1½ 1553 (1600-1½)	6160-3	1553 (1600-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ITOF0 TWO DEPARTURE (RNAV)

SALT LAKE CITY DEP CON
120.9 124.3 322.3
CLNC DEL
127.0
UNICOM 122.7 (CTAF)
AWOS-3 134.425



NOTE: RNAV 1
NOTE: GPS required.

TAKEOFF MINIMUMS

Rwy 16: Standard with a minimum climb of 300' per NM to 7800.
Rwy 34: Standard with a minimum climb of 495' per NM to 9000.

TAKEOFF OBSTACLE NOTES

Rwy 16: Bush 671' from DER, 490' right of centerline, up to 25' AGL/4629' MSL.
Vehicles on road 692' from DER, right and left of centerline, up to 17' AGL/4626' MSL.
Poles beginning 1000' from DER, 465 right of centerline, up to 30' AGL/4638' MSL.

NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 16: Climb heading 158° to 5107, then climb to 9000 direct HOKEG, and on track 160° to ITOFO, 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 to ITOFO, and on track 159° to FFU VORTAC and hold, thence. . . .

. . . .All aircraft expect further clearance to filed altitude and route within 10 minutes after departure.

APP CRS	Rwy Idg	7669
212°	TDZE	1510
	Apt Elev	1510

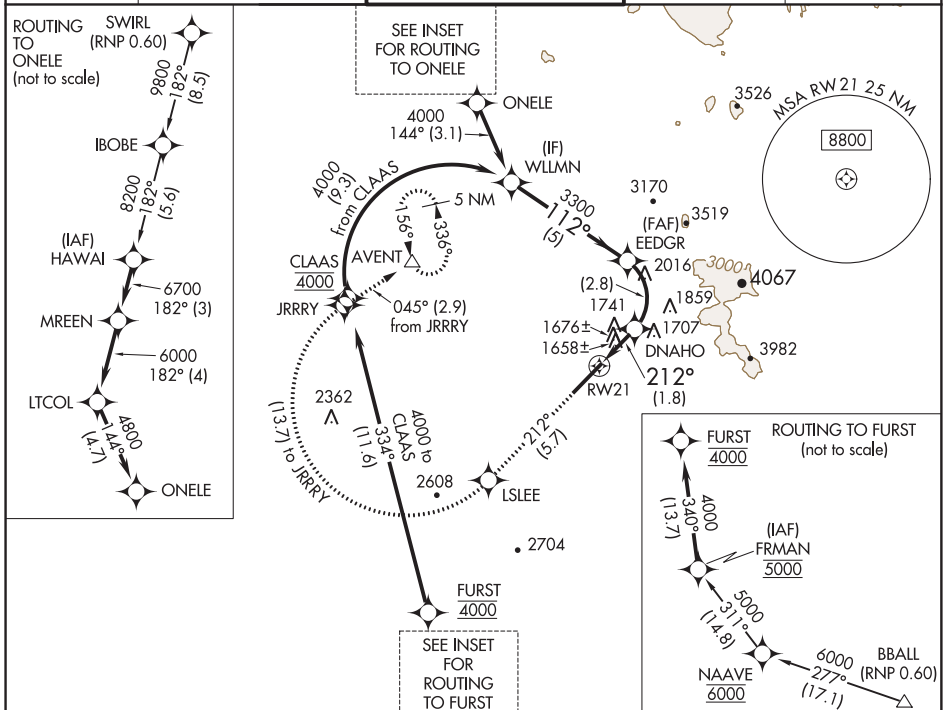
RNAV (RNP) RWY 21

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 44°C (112°F).
 When local altimeter setting not received procedure NA.

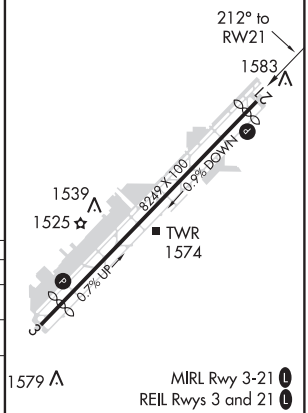
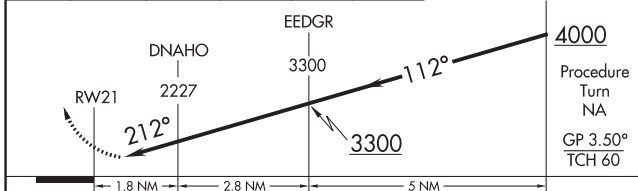
MISSED APPROACH: Climb to 5000 via track 212° to LSLEE, and via right turn to JRRRY, and via track 045° to AVENT and hold.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



5000 ↑ tr 212°	LSLEE	JRRRY	tr 045°	AVENT	VGSI and RNAV glidepath not coincident (VGSI Angle 4.00/TCH 45).
----------------------	-------	-------	---------	-------	--

ELEV 1510	D TDZE 1510
-----------	--------------------



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

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	7110
032°	TDZE	1470
	Apt Elev	1510

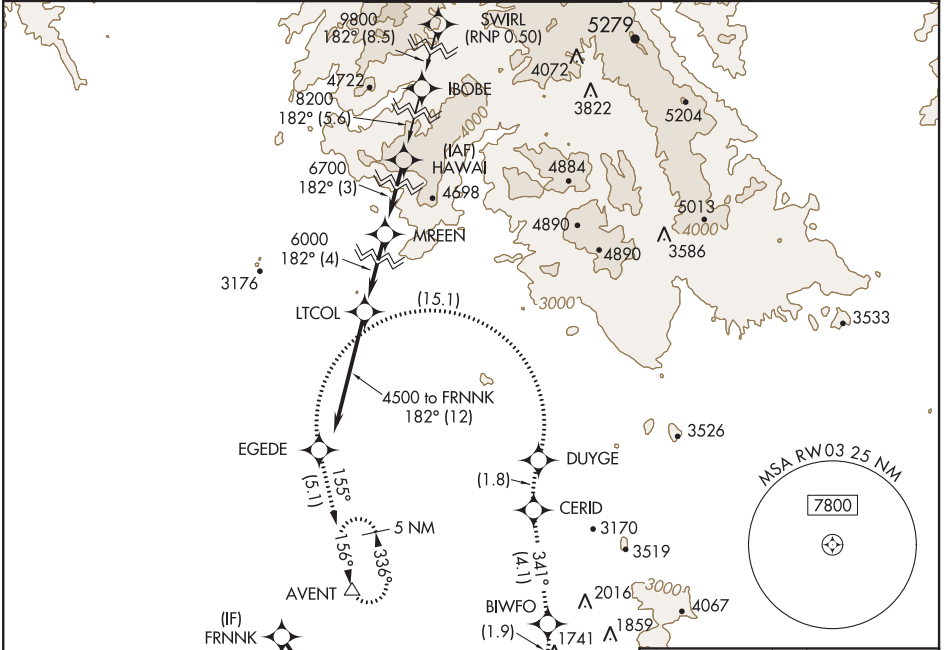
RNAV (RNP) Y RWY 3

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.

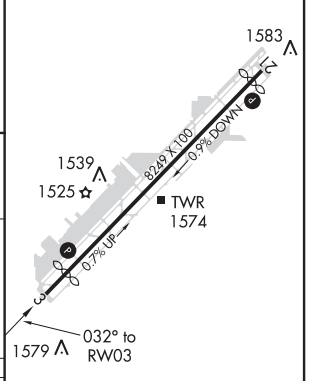
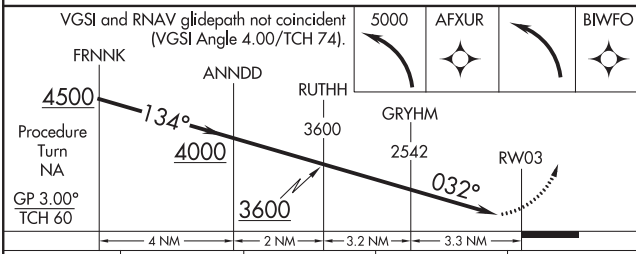
ATIS	PHOENIX APP CON	SCOTTSDALE TOWER ★	GND CON	CLNC DEL
118.6	120.7 239.0	119.9 (CTAF) 0	121.6	124.8



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 **0**
 REIL Rwy 3 and 21 **0**

APP CRS	Rwy Idg	7110
032°	TDZE	1470
	Apt Elev	1510

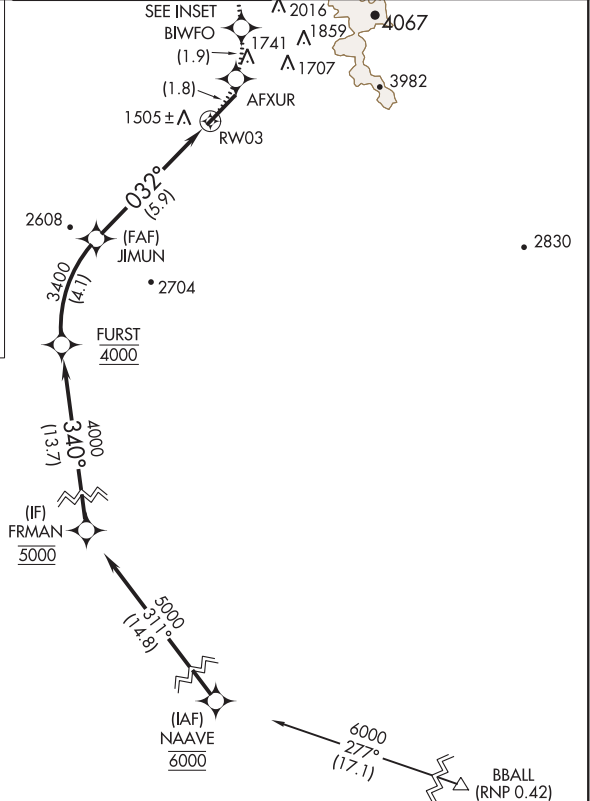
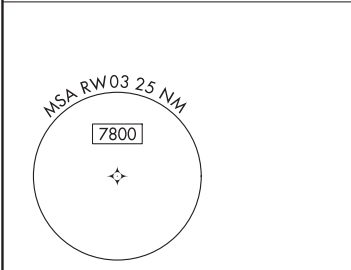
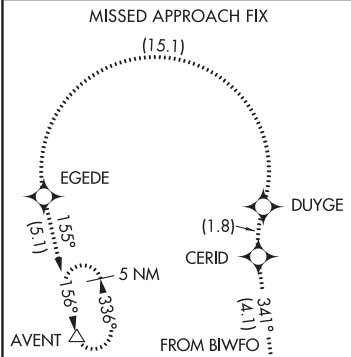
RNAV (RNP) Z RWY 3

SCOTTSDALE (SDL)

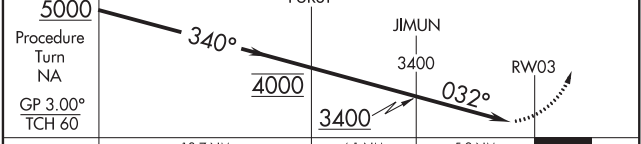
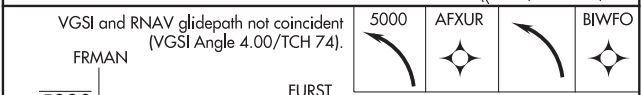
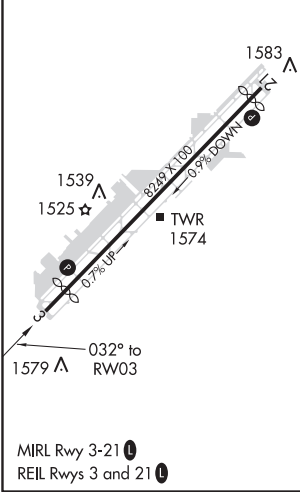
RF and GPS required. Visibility reduction by helicopters NA.
 For uncompensated Baro-VNAV systems, procedure NA below
 1°C (31°F) or above 54°C (130°F). When local altimeter setting not
 received procedure NA. Missed approach requires RNP less than 1.0.

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 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



ELEV 1510	D	TDZE 1470
-----------	----------	-----------



CATEGORY	A	B	C	D
RNP 0.30 DA	1829-1¼	359 (400-1¼)		NA

AUTHORIZATION REQUIRED

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	N/A
109°	TDZE	N/A
	Apt Elev	1510

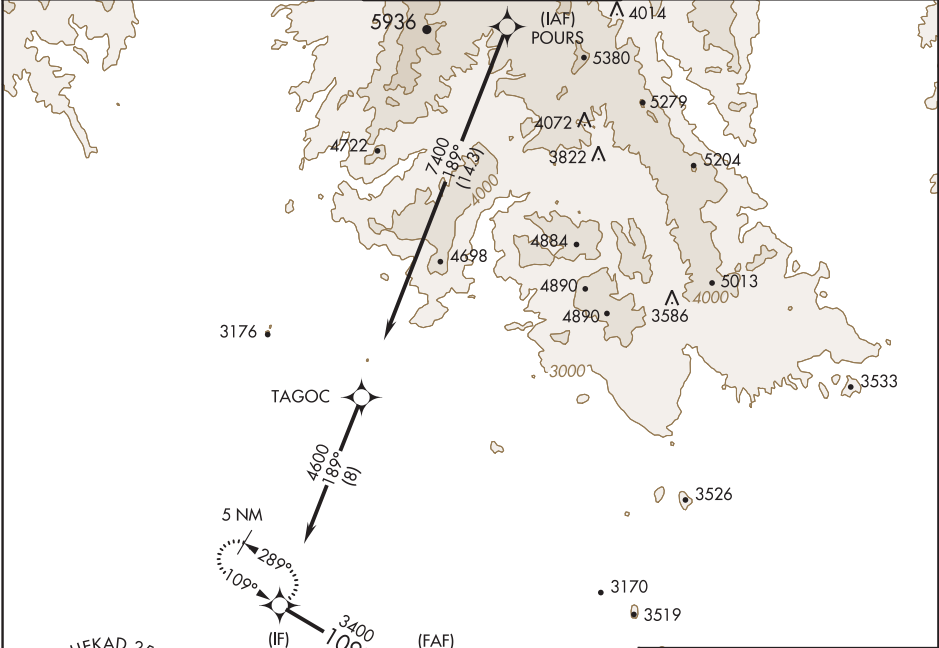
RNAV (GPS)-D

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.

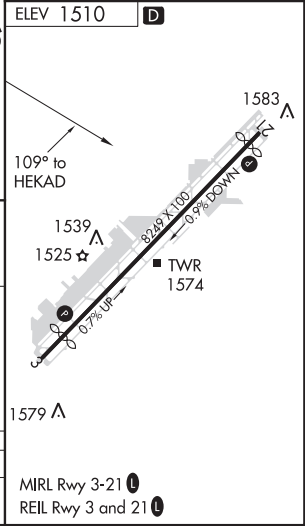
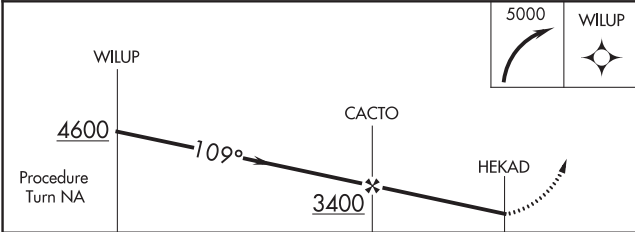
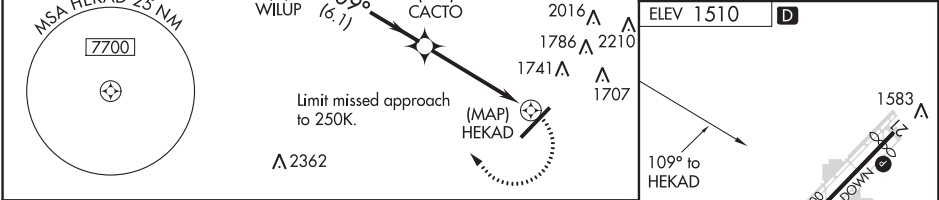
⚠ MISSED APPROACH: Climbing right turn to 5000 direct WILUP and hold, continue climb-in-hold to 5000.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	2080-1	570 (600-1)	2160-2	650 (700-2)

APP CRS 003°	Rwy Idg TDZE Apt Elev	N/A N/A 1510
------------------------	-----------------------------	---

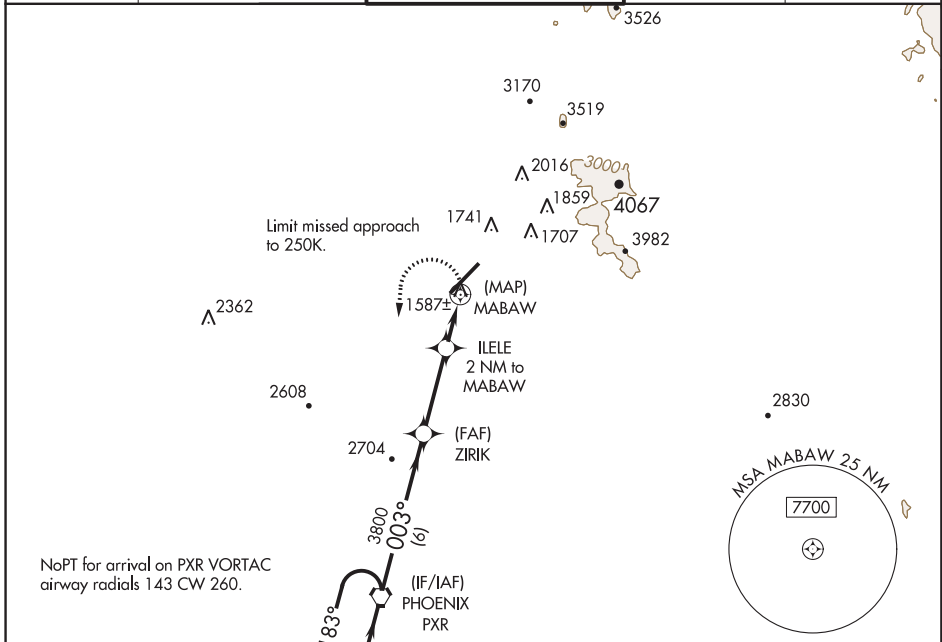
RNAV (GPS)-E

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 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.

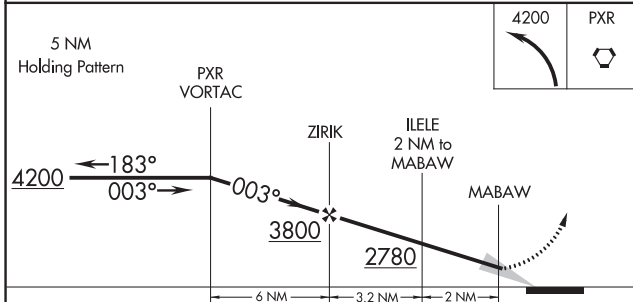
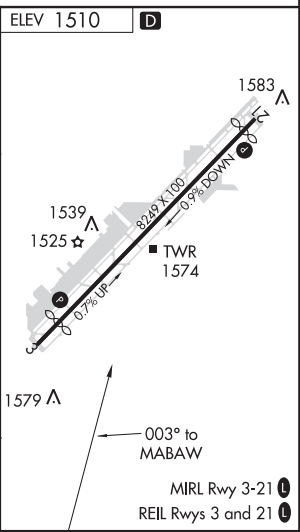
ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

5 NM Holding Pattern	4200	PXR
----------------------	------	-----



CATEGORY	A	B	C	D
CIRCLING	2140-1	630 (700-1)	2140-2	630 (700-2)

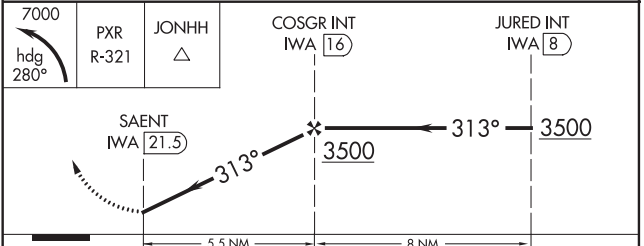
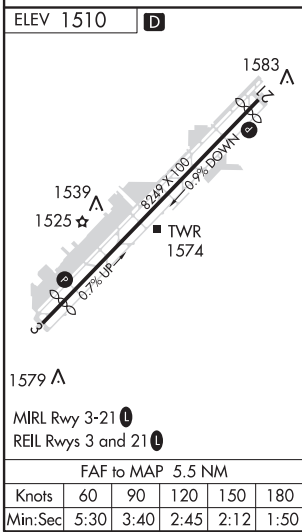
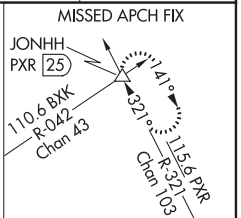
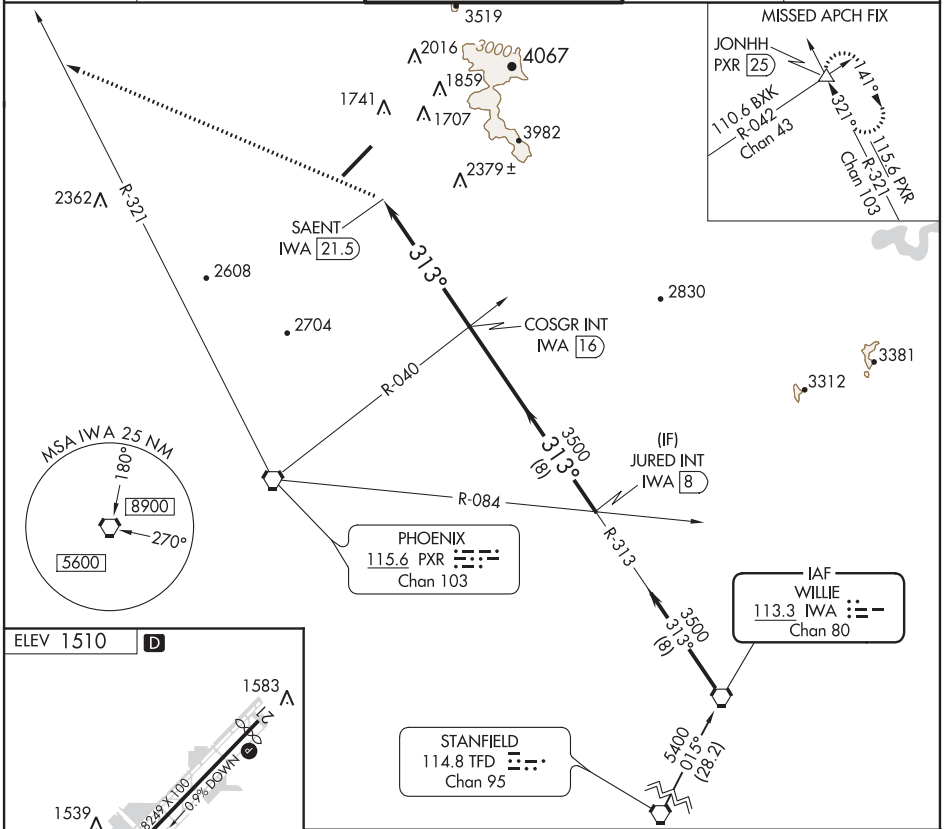
VORTAC IWA 113.3 Chan 80	APP CRS 313°	Rwy Idg TDZE Apt Elev 1510	N/A N/A 1510
--	------------------------	---	---------------------------

VOR-C
SCOTTSDALE (SDL)

⚠ When VGSI inoperative, circling Rwy 21 NA at night.
⚠ When local altimeter setting not received, use Phoenix Sky Harbor Int'l altimeter setting and increase all MDA 100 feet and Cat C visibility 1/4 mile.

MISSED APPROACH: Climbing left turn to 7000 on heading 280° and PXR R-321 to JONHH INT/PXR 25 DME and hold, continue climb-in-hold to 7000.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50
CATEGORY	A	B	C	D	
CIRCLING	2440-2 930 (1000-2)		2440-2 3/4 930 (1000-2 3/4)		2440-3 930 (1000-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

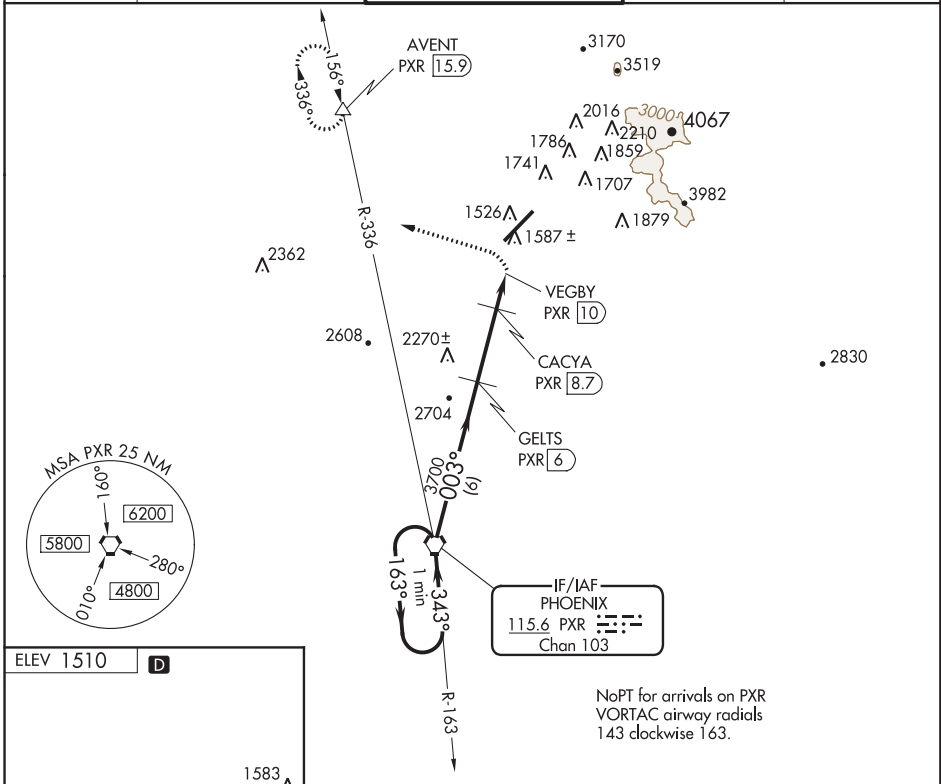
VORTAC PXR 115.6 Chan 103	APP CRS 003°	Rwy Idg TDZE Apt Elev 1510	N/A N/A
---	------------------------	--	--------------------------

VOR/DME-A
SCOTTSDALE (SDL)

⚠ When local altimeter setting not received, use Phoenix Sky Harbor altimeter setting and increase all MDAs 100 feet and Cat C visibility ¼ mile.

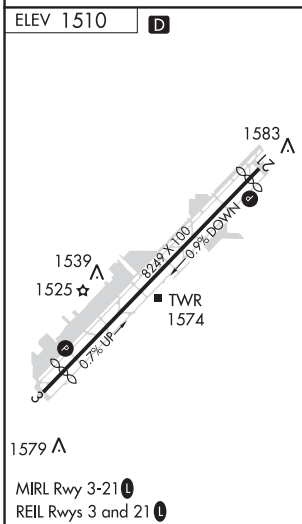
⚠ MISSED APPROACH: Climbing left turn to 7000 on heading 280° and on PXR VORTAC R-336 to AVENT/PXR 15.9 DME and hold, continue climb-in-hold to 7000.

ATIS 118.6	PHOENIX APP CON 120.7 239.0	SCOTTSDALE TOWER ★ 119.9 (CTAF) 0	GND CON 121.6	CLNC DEL 124.8
----------------------	---------------------------------------	---	-------------------------	--------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



One Minute Holding Pattern		7000 hdg 280°	PXR R-336	AVENT △
4200 ← 163° → 3430 PXR VORTAC GELTS PXR [6] CACYA PXR [8.7] VEGBY PXR [10]		6 NM 2.7 NM 1.3		
CATEGORY	A	B	C	D
CIRCLING	2380-1½	870 (900-1½)	2380-2½ 870 (900-2½)	2380-2¾ 870 (900-2¾)

AIRPORT DIAGRAM

AL-5651 (FAA)

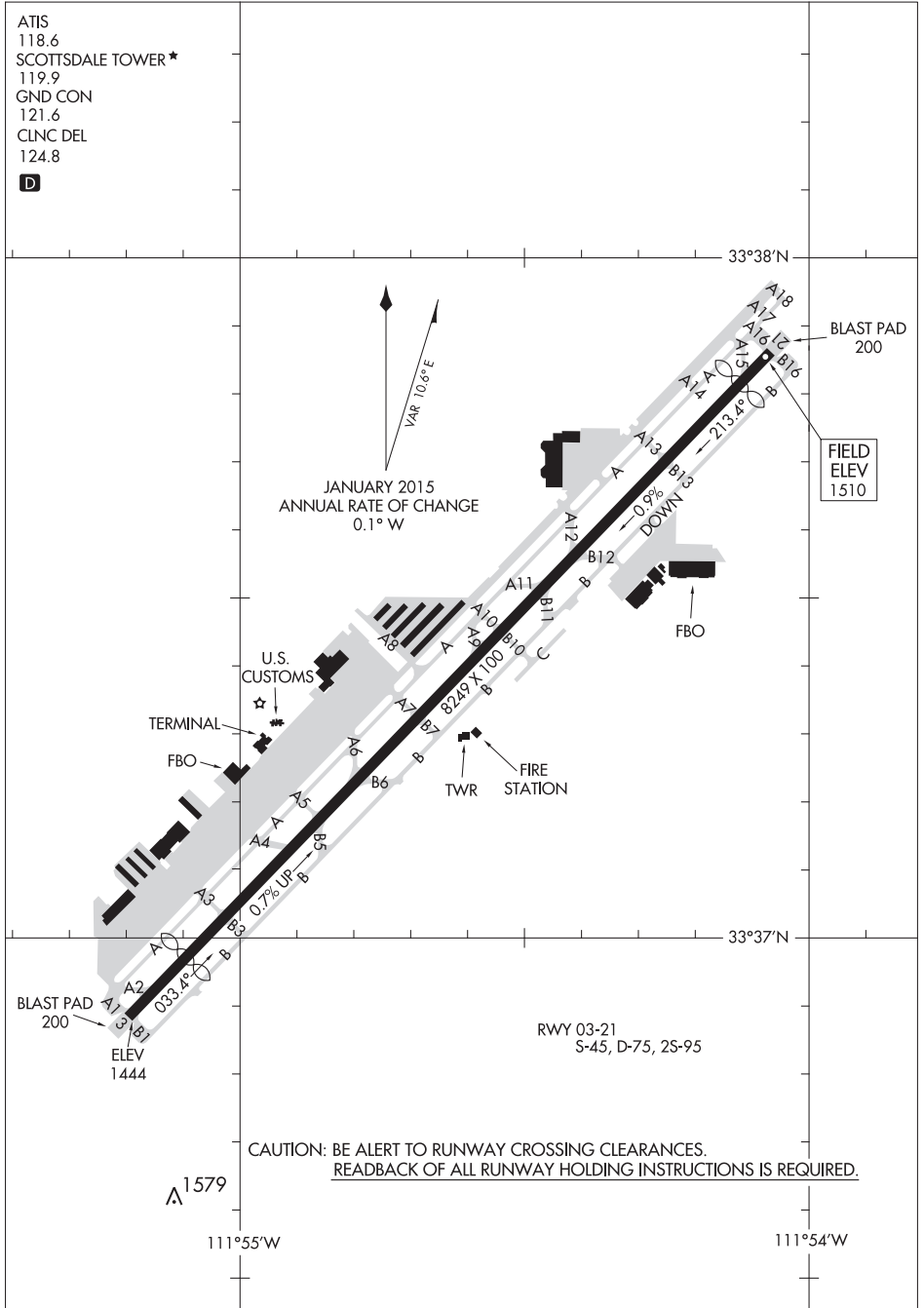
SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

ATIS
 118.6
 SCOTTSDALE TOWER ★
 119.9
 GND CON
 121.6
 CLNC DEL
 124.8

D

SW-4, 10 NOV 2016 to 05 JAN 2017

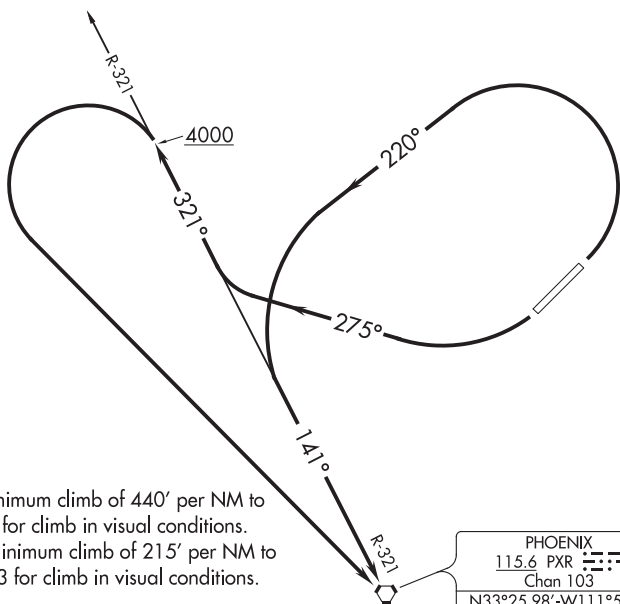
SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

ATIS
118.6
PRESCOTT RADIO
122.6
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, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

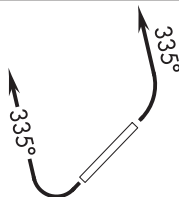
(BNYRD5.BNYRD) 16315

BNYRD FIVE DEPARTURE (RNAV)

SL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

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**

TAKEOFF OBSTACLE NOTES

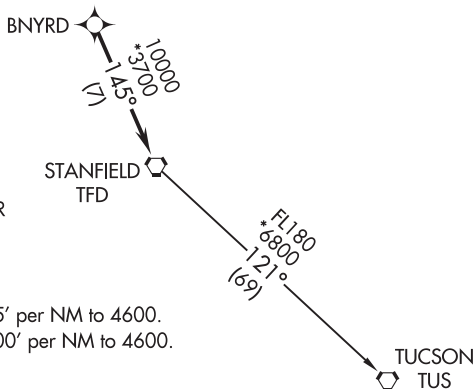
Rwy 3: Multiple light standards beginning 63' from DER, 445' left of centerline, up to 44' AGL/1554' MSL.
Hoist on dike 878' from DER, 735' left of centerline, 51' AGL/1561' MSL.
Dike beginning 1066' from DER, 316' left of centerline, 38' AGL/1548' MSL.
Day marker on dike 1230' from DER, 5' left of centerline, 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

- 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

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 BNYRD, then on track 145° to TFD VORTAC. Then on (transition), expect filed altitude 3 minutes after departure.

TUCSON TRANSITION (BNYRD5.TUS)

BNYRD FIVE DEPARTURE (RNAV)

(BNYRD5.BNYRD) 10NOV16

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

7 10 2017 JAN 05 10:01:01

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.

ATIS 118.6

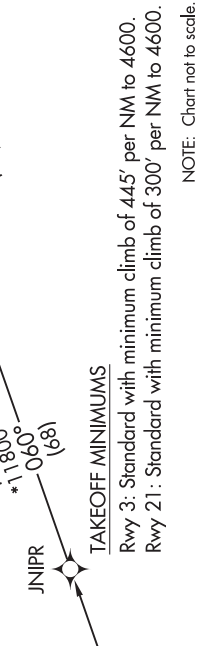
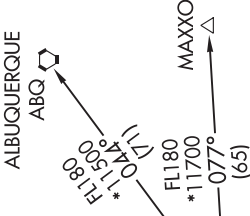
CLNC DEL 124.8

GND CON 121.6

SCOTTSDALE TOWER * 119.9

PHOENIX DEP CON 120.7 239.0

TOP ALTITUDE:
ASSIGNED BY ATC



NOTE: Chart not to scale.

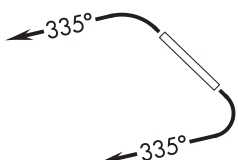
DEPARTURE ROUTE DESCRIPTION

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 BROAK, then on track 059° to FTHLS. Then on (transition), expect filed altitude 3 minutes after departure.

- ALBUQUERQUE TRANSITION (FTHLS5.ABQ)
- JNIPR TRANSITION (FTHLS5.JNIPR)
- MAXXO TRANSITION (FTHLS5.MAXXO)



- 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: For non-GPS equipped aircraft, PXR and TFD DMEs must be operational.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

(IZZ05.IZZ0) 16315

IZZ0 FIVE DEPARTURE (RNAV)

SL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

7 NOV 2016 01:01:01 9:10:05 JAN 2017

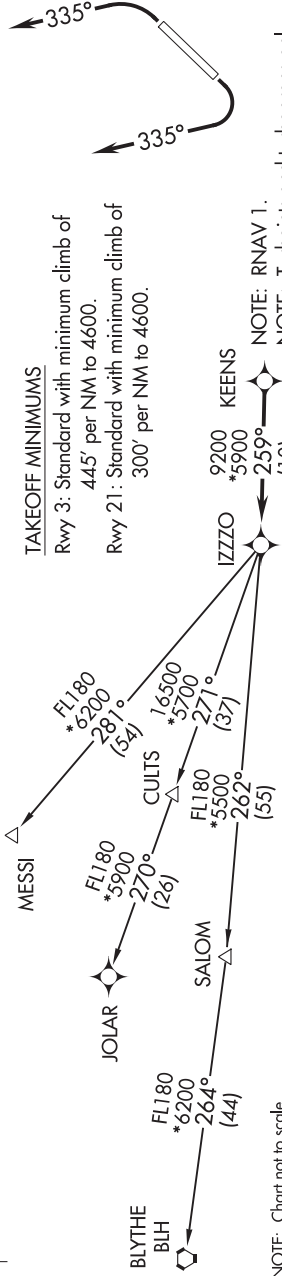
TOP ALTITUDE: ASSIGNED BY ATC

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.

ATIS
118.6
CINC DEL
124.8
GND CON
121.6
SCOTTSDALE TOWER*
119.9
PHOENIX DEP CON
120.7 239.0



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 IZZO. Then on (transition), expect filed altitude 3 minutes after departure.

- BLYTHE TRANSITION (IZZ05.BLH)
- JOLAR TRANSITION (IZZ05.JOLAR)
- MESSI TRANSITION (IZZ05.MESSI)

- 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 JOLAR TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

IZZ0 FIVE DEPARTURE (RNAV)

(IZZ05.IZZ0) 10NOV16

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

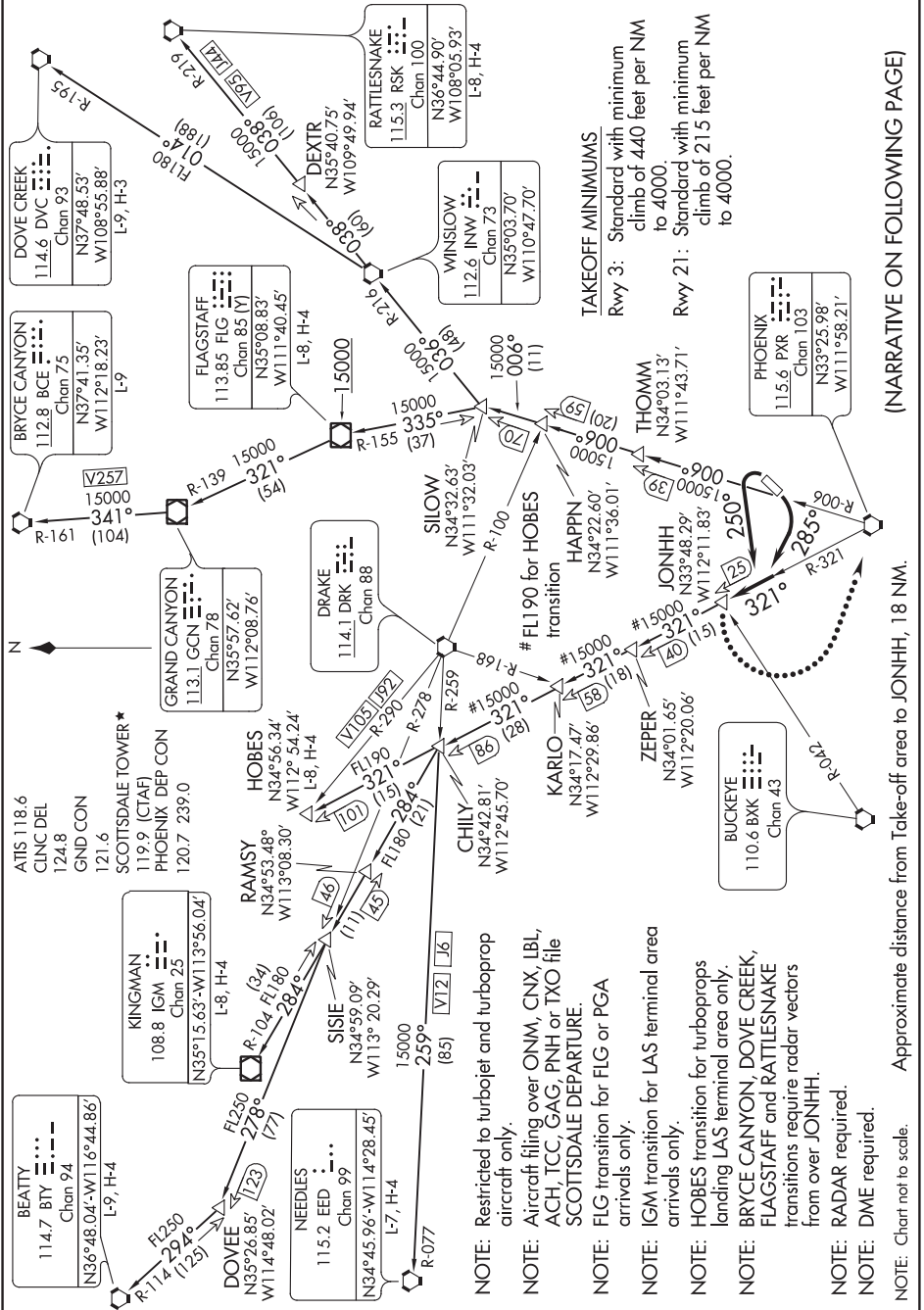
SW-4, 10 NOV 2016 to 05 JAN 2017

(JONHH1.JONHH) 16315
JONHH ONE DEPARTURE

SL-5651 (FAA)

SCOTTSDALE (SDL)
 SCOTTSDALE, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



(NARRATIVE ON FOLLOWING PAGE)

Approximate distance from Take-off area to JONHH, 18 NM.

NOTE: Chart not to scale.

JONHH ONE DEPARTURE
 (JONHH1.JONHH) 02JUL09

SCOTTSDALE, ARIZONA
 SCOTTSDALE (SDL)

SW-4, 10 NOV 2016 to 05 JAN 2017



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climbing left turn heading 250° to intercept and proceed via PXR R-321 to JONHH INT. Thence

TAKE-OFF RUNWAY 21: Climbing right turn heading 285° to intercept and proceed via PXR R-321 to JONHH INT. Thence

. . . . Via 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 (JONHH1.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, and then on BTY R-114 to BTY VORTAC.

BRYCE CANYON TRANSITION (JONHH1.BCE): From over JONHH INT on RADAR vectors and PXR R-006 to SILOW INT, then on FLG R-155 to FLG VOR/DME, then on FLG R-321 and GCN R-139 to GCN VOR/DME, and then on GCN R-341 and BCE R-161 to BCE VORTAC.

DOVE CREEK TRANSITION (JONHH1.DVC): From over JONHH INT on RADAR vectors and PXR R-006 to SILOW INT, then on INW R-216 to INW VORTAC, and then on INW R-014 and DVC R-195 to DVC VORTAC.

FLAGSTAFF TRANSITION (JONHH1.FLG): From over JONHH INT on RADAR vectors and PXR R-006 to SILOW INT and on FLG R-155 to FLG VOR/DME.

HOBES TRANSITION (JONHH1.HOBES): From over JONHH INT on PXR R-321 to HOBES INT.

KINGMAN TRANSITION (JONHH1.IGM): From over JONHH INT on PXR R-321 to CHILY INT, then on IGM R-104 to IGM VOR/DME.

NEEDLES TRANSITION (JONHH1.EED): From over JONHH INT on PXR R-321 to CHILY INT, then on DRK R-259 and EED R-077 to EED VORTAC.

RATTLESNAKE TRANSITION (JONHH1.RSK): From over JONHH INT on RADAR vectors and PXR R-006 to SILOW INT, then on INW R-216 to INW VORTAC, and then on INW R-038 and RSK R-219 to RSK VORTAC.

TAKE-OFF 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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

7-W 10 NOV 2016 to 05 JAN 2017

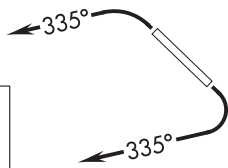
ATIS 118.6
CLNC DEL 124.8
GND CON 121.6
SCOTTSDALE TOWER * 119.9
PHOENIX DEP CON 120.7 239.0

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), expect filed altitude 3 minutes after departure.

MOHAK TRANSITION (JUDTH5.MOHAK)

TOP ALTITUDE:
ASSIGNED BY ATC



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: RNAV 1.
NOTE: Turbojets and turboprops only.
NOTE: RADAR required.
NOTE: GPS required.
NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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.

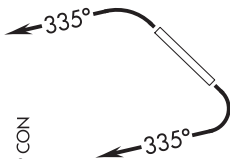
NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

7 2017
10 01 01 2017
10 01 05 JAN 2017
WS

**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



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climbing left turn heading 335° or as assigned by ATC. Thence. . . .

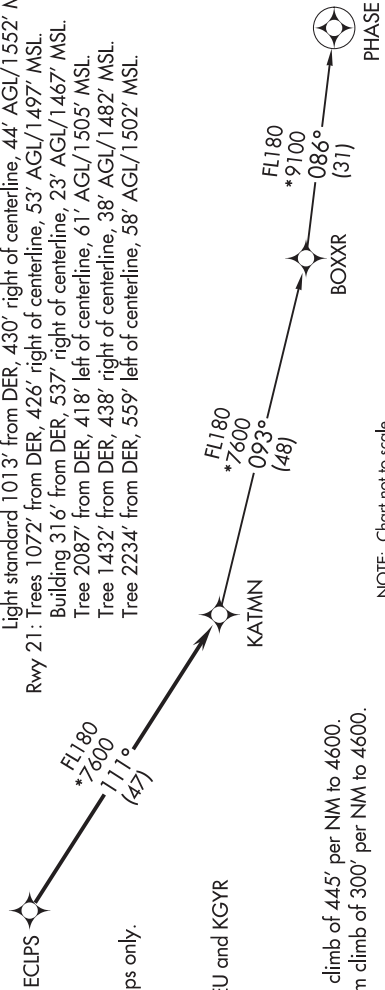
TAKEOFF RUNWAY 21: Climbing right turn heading 335° or as assigned by ATC. Thence. . . .

. . . . expect RADAR vectors to ECLPS, then on track 111° to KATMN. Then on (transition), expect filed altitude 3 minutes after departure.

PHASE TRANSITION (KATMN5.PHASE)

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: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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.

7-SW 10 NOV 2016 10:05 JAN 2017

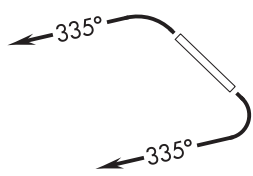
TAKEOFF OBSTACLE NOTES

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.

ATIS 118.6
 CLNC DEL 124.8
 GND CON 121.6
 SCOTTSDALE TOWER * 119.9
 PHOENIX DEP CON 120.7 239.0

TAKEOFF MINIMUMS

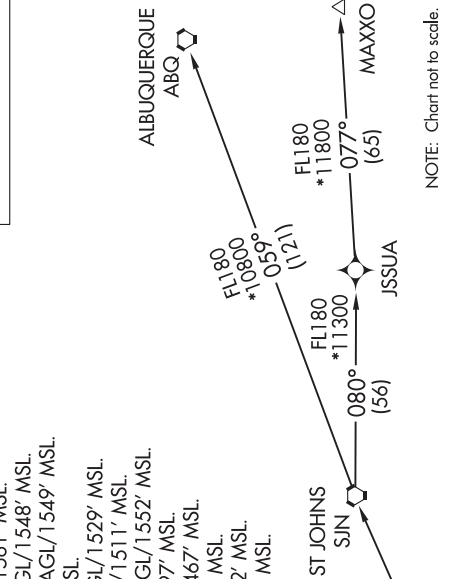
Rwy 3: Standard with minimum climb of 445' per NM to 4600.
 Rwy 21: Standard with minimum climb of 300' per NM to 4600.



NOTE: RNAV 1.
 NOTE: Turbojets and turboprops only.
 NOTE: RADAR required.
 NOTE: GPS required.

NOTE: 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, IBL, 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**



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 FORPE, then on track 055° to LALUZ. Then on (transition), expect filed altitude 3 minutes after departure.

ALBUQUERQUE TRANSITION (LALUZ5.ABQ)
MAXXO TRANSITION (LALUZ5.MAXXO)
ST JOHNS TRANSITION (LALUZ5.SJN)

SW-4, 10 NOV 2016 to 05 JAN 2017

(MAYSA5.MAYSA) 16315

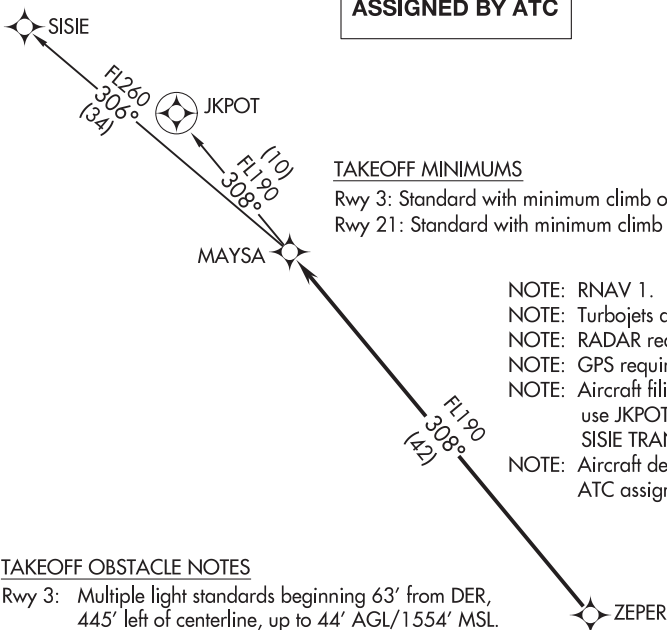
MAYSA FIVE DEPARTURE (RNAV)

SL-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



TAKEOFF MINIMUMS

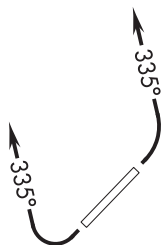
Rwy 3: Standard with minimum climb of 445' per NM to 4600.
 Rwy 21: Standard with minimum climb of 300' per NM to 4600.

- NOTE: RNAV 1.
- NOTE: Turbojets and turboprops only.
- NOTE: RADAR required.
- NOTE: GPS required.
- NOTE: Aircraft filing over EED, HEC, or PMD, use JKPOT TRANSITION, all others use SISIE TRANSITION.
- NOTE: Aircraft departing KGEU and KGYR ATC assigned only.

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 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 ZEPER, then on track 308° to MAYSA. Then on (transition), expect filed altitude 3 minutes after departure.

JKPOT TRANSITION (MAYSA5.JKPOT)

SISIE TRANSITION (MAYSA5.SISIE)

MAYSA FIVE DEPARTURE (RNAV)

(MAYSA5.MAYSA) 10NOV16

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

SW-4, 10 NOV 2016 to 05 JAN 2017

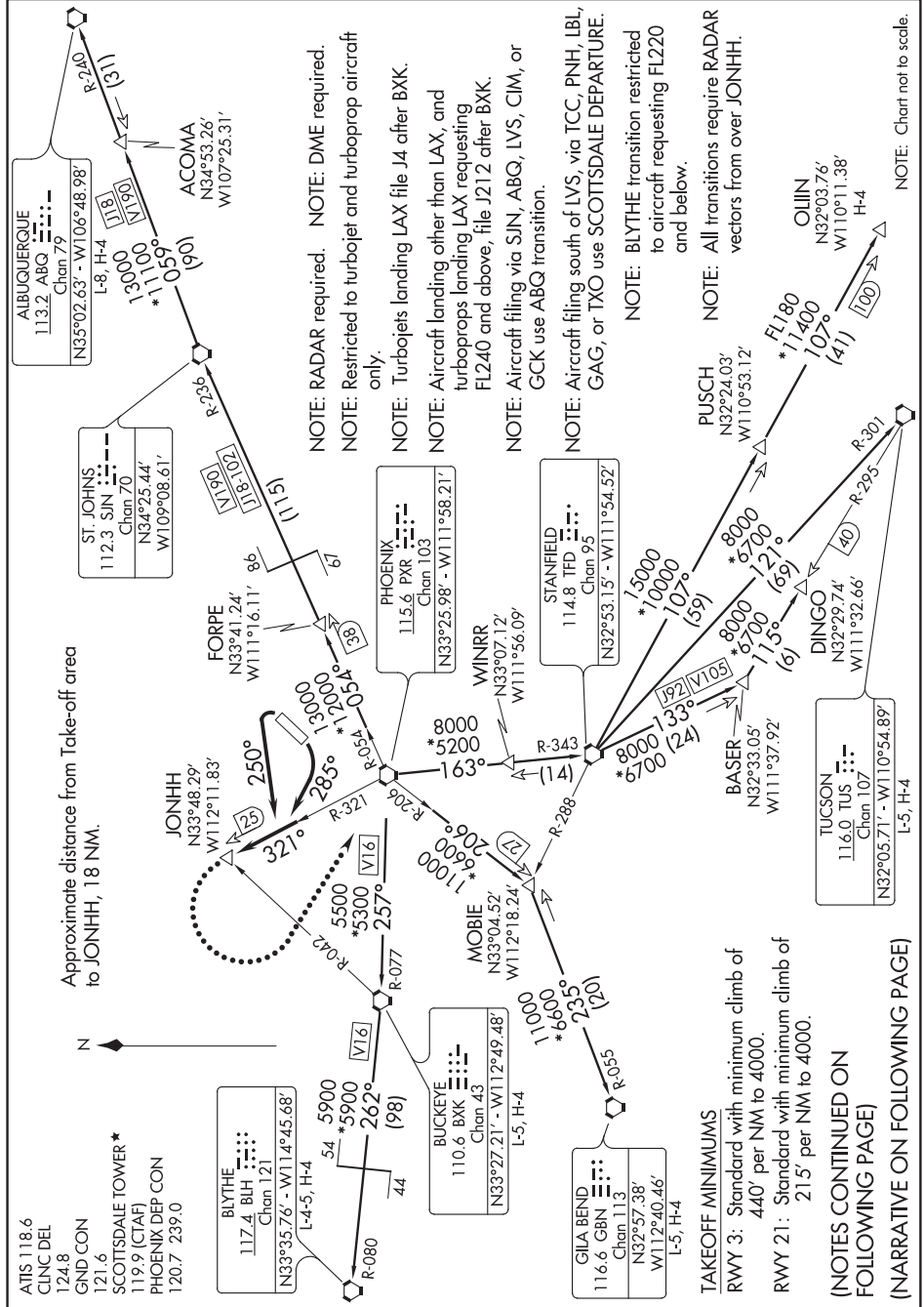
SW-4, 10 NOV 2016 to 05 JAN 2017

SCOTTSDALE SEVEN DEPARTURE

SL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

SCOTTSDALE SEVEN DEPARTURE

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

(SCOT7.SCOT) 16315

SCOTTSDALE SEVEN DEPARTURE

SL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

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.

TAKEOFF OBSTACLE NOTES

Rwy 3: Trees beginning 665' from DER, left and right of centerline, up to 66' AGL/1576' MSL.

Multiple transmission towers beginning 6779' from DER, left and right of centerline, up to 215' AGL/1725' MSL.

Multiple light poles beginning 558' from DER, left and right of centerline, up to 138' AGL/1648' MSL.

Equip on levee, 879' from DER, 736' left of centerline, 53' AGL/1563' MSL.

Building, 162' from DER, 418' right of centerline, 22' AGL/1532' MSL.

Building, 2530' from DER, 632' left of centerline, 79' AGL/1589' MSL.

Levee, 1067' from DER, 317' left of centerline, 40' AGL/1550' MSL.

Levee, 1539' from DER, 479' right of centerline, 42' AGL/1552' MSL.

Building, 3308' from DER, 334' right of centerline, 87' AGL/1597' MSL.

Fence, 6' from DER, 345' right of centerline, 11' AGL/1521' MSL.

Lt on levee, 1230' from DER, 5' left of centerline, 41' AGL/1551' MSL.

Blast fence, 472' from DER, 328' left of centerline, 20' AGL/1530' MSL.

Terrain, 269' from DER, 490' left of centerline, 1522' MSL.

Roads, 635' from DER, 289' left of centerline, up to 15' AGL/1531' MSL.

Rwy 21: Trees beginning 1072' from DER, 425' right of centerline, up to 53' AGL/1497' MSL.

Tree, 2088' from DER, 419' left of centerline, 61' AGL/ 1505' MSL.

Building, 317' from DER, 537' right of centerline, 23' AGL/1467' MSL.

SCOTTSDALE SEVEN DEPARTURE

(SCOT7.SCOT) 26JUL12

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

GRAND CANYON

GCN



(26)

342°

FL180

*9500

(126)

RIMMM

(110)

343°

FL180

*11500

(110)

343°

FL180

*11500

(136)

343°

FL180

*11500

(120)

CARTL

(20)

343°

FL180

*9300

(20)

SNOBL

(20)

343°

14600

*8100

(20)

QUAKY

(20)

343°

FL180

*9300

(20)

343°

FL180

*9300

(20)

343°

FL180

*9300

(20)

343°

FL180

*9300

(20)

343°

FL180

*9300

(20)

343°

FL180

*9300

(20)

343°

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

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**

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.

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.

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), expect filed altitude 3 minutes after departure.

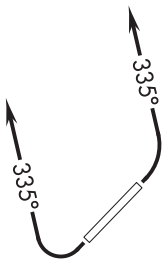
CARTL TRANSITION (SNOBL5.CARTL)

GRAND CANYON TRANSITION (SNOBL5.GCN)

JARPA TRANSITION (SNOBL5.JARPA)

RIMMM TRANSITION (SNOBL5.RIMMM)

YOOPR TRANSITION (SNOBL5.YOOPR)



NOTE: Chart not to scale.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(YOTES5.YOTES) 16315

YOTES FIVE DEPARTURE (RNAV)

SL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA

ATIS
 118.6
 CLNC DEL
 124.8
 GND CON
 121.6
 SCOTTSDALE TOWER *
 119.9
 PHOENIX DEP CON
 120.7 239.0

 GRAND CANYON
 GCN

YOOPR  JARPA 

FL180
 *14900
 316°
 (95)

FL180
 *2400
 016°
 (70)

FL180
 *9300
 033°
 (92)

**TOP ALTITUDE:
ASSIGNED BY ATC**

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.

YOTES

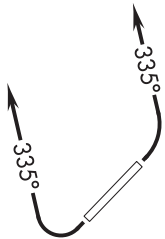
MRBIL 

FL180
 *10300
 021°
 (44)

- 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 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 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), expect filed altitude 3 minutes after departure.

GRAND CANYON TRANSITION (YOTES5.GCN)

JARPA TRANSITION (YOTES5.JARPA)

YOOPR TRANSITION (YOTES5.YOOPR)

YOTES FIVE DEPARTURE (RNAV)

(YOTES5.YOTES) 10NOV16

SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

GPS RWY 3 SEDONA (SEZ)

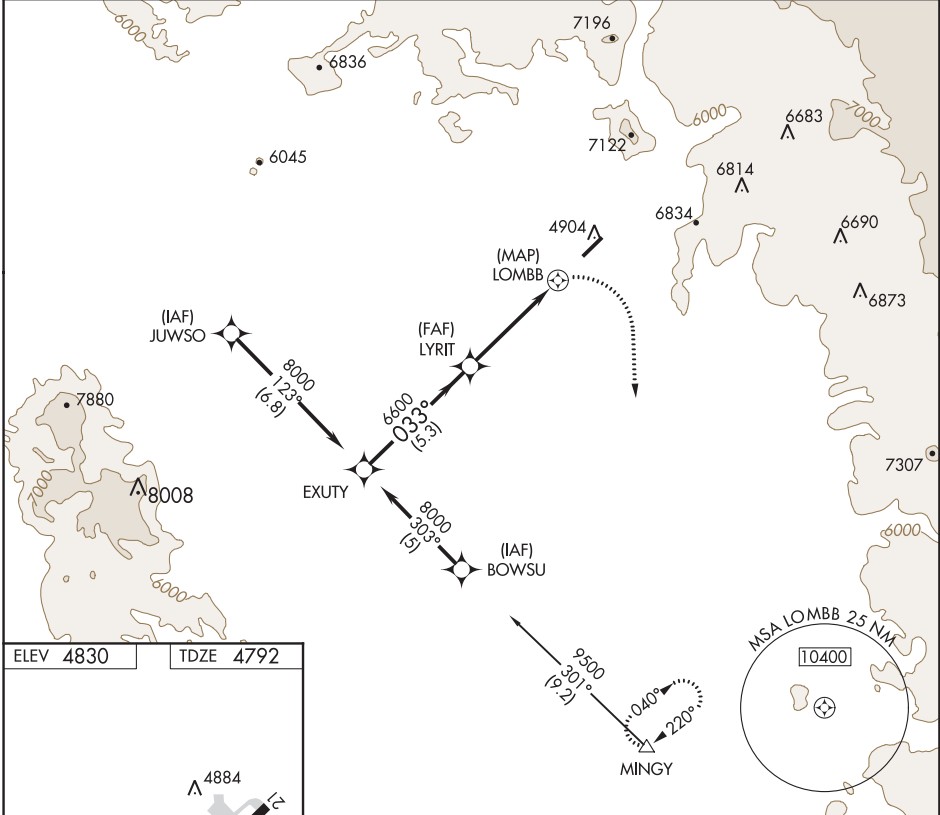
APP CRS 033°	Rwy Idg 5132
	TDZE 4792
	Apt Elev 4830



When local altimeter not received, procedure not authorized.
Cat D circling not authorized northwest of Rwy 3-21.

MISSED APPROACH: Climbing right turn to 12000 direct MINGY WP and hold.

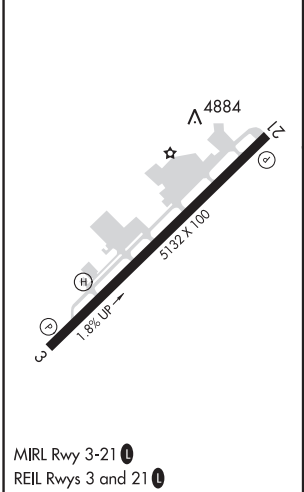
AWOS-3PT 118.525	PHOENIX APP CON 126.375 236.775	PRESCOTT RADIO 122.3	UNICOM 123.0 (CTAF)
----------------------------	---	--------------------------------	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4830	TDZE 4792
-----------	-----------



Procedure Turn NA	EXUTY			LYRIT		MINGY	
	8000			6600		12000	
5.3 NM			4.4 NM		1.3 NM		
CATEGORY	A		B		C		D
S-3	6140-1½ 1348 (1400-1½)		6240-1½ 1448 (1500-1½)		6560-3		1768 (1800-3)
CIRCLING	6140-1½ 1310 (1400-1½)		6240-1½ 1410 (1500-1½)		6560-3		1730 (1800-3)

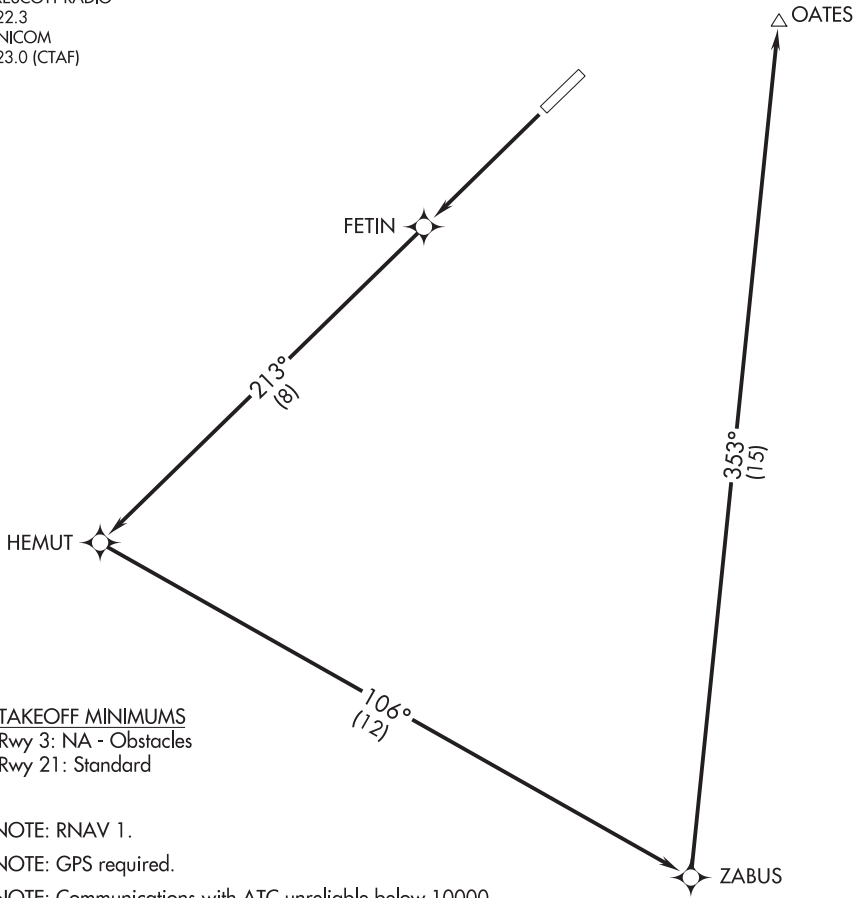
(OATES1.OATES) 16259

OATES ONE DEPARTURE (OBSTACLE) (RNAV)

SL-6169 (FAA)

SEDONA (SE/Z)
SEDONA, ARIZONA

PHOENIX DEP CON
126.375 236.775
PRESCOTT RADIO
122.3
UNICOM
123.0 (CTAF)



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

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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

OATES ONE DEPARTURE (OBSTACLE) (RNAV)

(OATES1.OATES) 10APR08

SEDONA, ARIZONA
SEDONA (SE/Z)

WAAS CH 72718 W24A	APP CRS 243°	Rwy Idg TDZE Apt Elev	7200 6405 6415
--	------------------------	-----------------------------	---

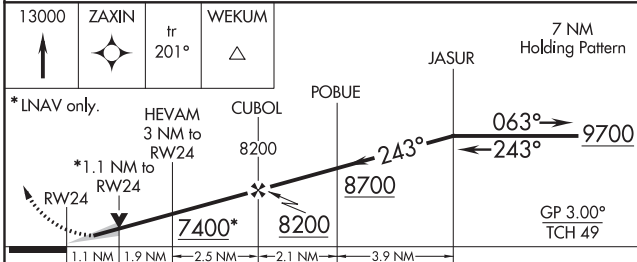
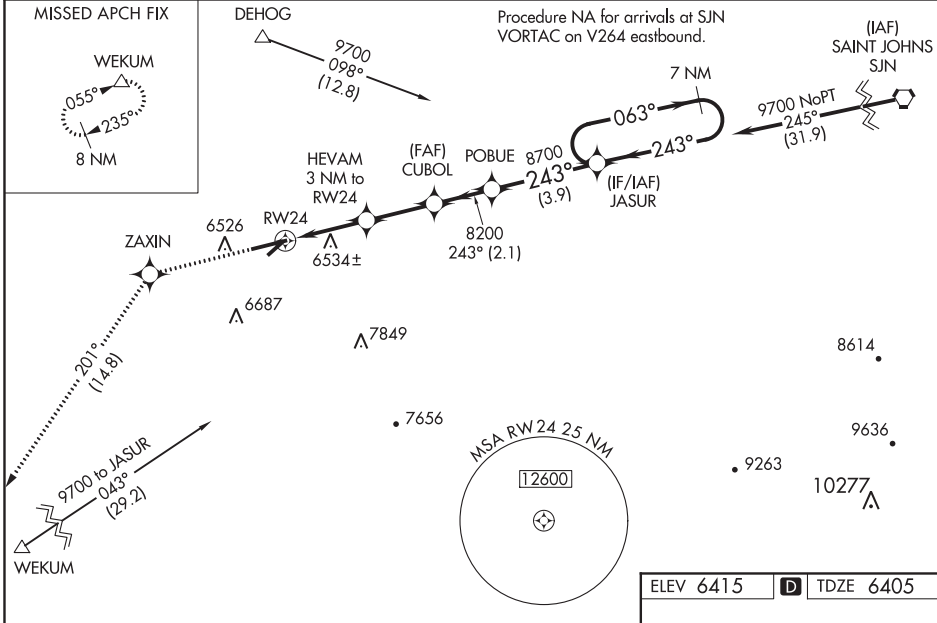
RNAV (GPS) RWY 24

SHOW LOW RGNL (SOW)

⚠ Circling to Rwy 3 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 51°C (123°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use St. Johns altimeter setting and increase all DA 175 feet and all MDA 180 feet, increase visibility for LPV and LNAV/VNAV 3/8 mile all Cats, LNAV Cat C, and Circling Cat C increase visibility 1/2 mile. Baro-VNAV and VDP NA with St. Johns altimeter setting. Circling NA southeast of Rwy 3 and 24.

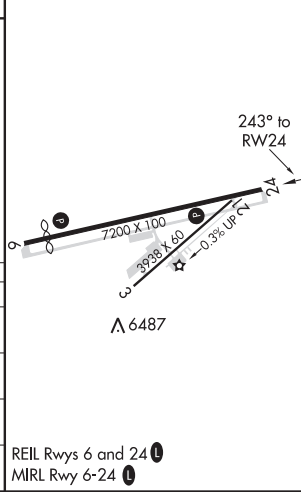
MISSED APPROACH: Climb to 13000 direct ZAXIN and on track 201° to WEKUM and hold, continue climb-in-hold to 13000.

AWOS-3 118.075	ALBUQUERQUE CENTER 132.9 239.05	UNICOM 123.0 (CTAF) 0
--------------------------	---	---------------------------------



ELEV 6415	D	TDZE 6405
-----------	----------	-----------

CATEGORY	A	B	C	D
LPV DA	6655-3/4	250 (300-3/4)		NA
LNAV/VNAV DA	6705-1	300 (300-1)		NA
LNAV MDA	6800-1	395 (400-1)	6800-1 1/8 395 (400-1 1/8)	NA
CIRCLING	6960-1	545 (600-1)	6960-1 1/2 545 (600-1 1/2)	NA



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

SHOW LOW, ARIZONA

AL-6783 (FAA)

16203

NDB SOW 206	APP CRS 205°	Rwy Idg TDZE Apt Elev	N/A N/A 6415
-----------------------	------------------------	-----------------------------	---

NDB-A
SHOW LOW RGNL (SOW)

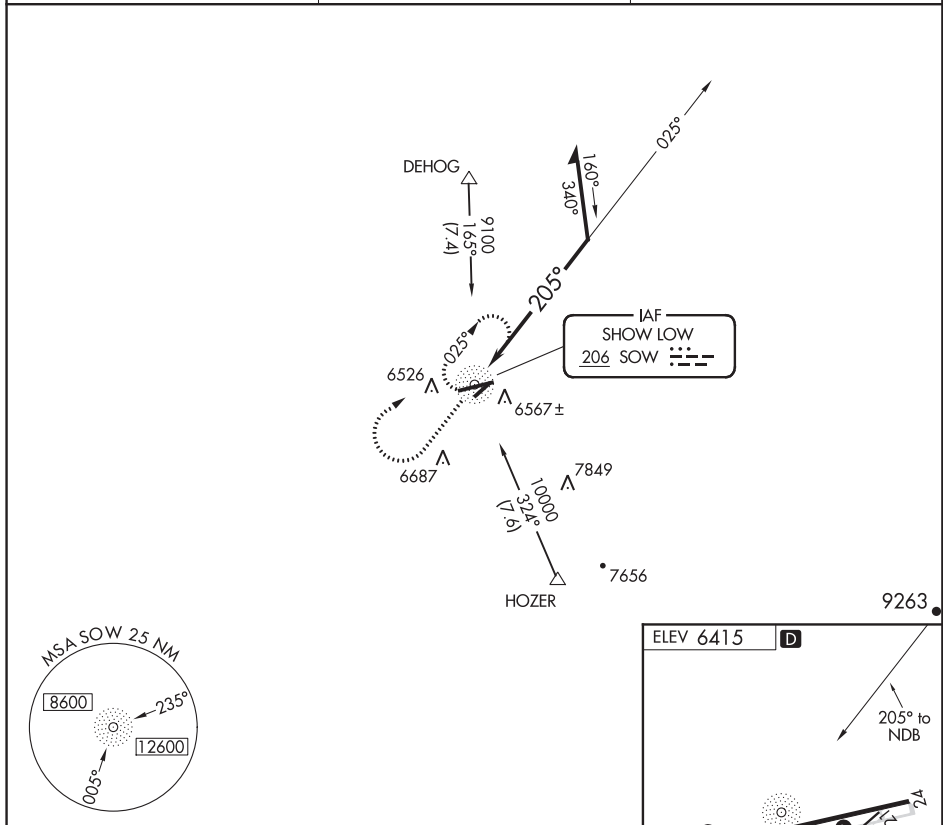
▽ When local altimeter setting not received, procedure NA.
▲ NA Circling NA southeast of Rwy 3 and 24. Night Landing: Rwy 3 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 8000 then climbing right turn to 9100 direct SOW NDB and hold.

AWOS-3
118.075

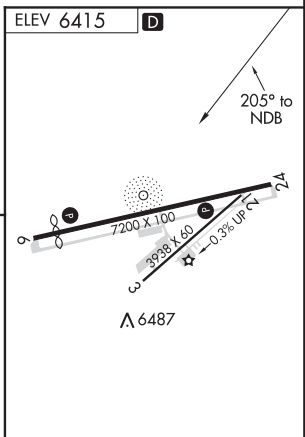
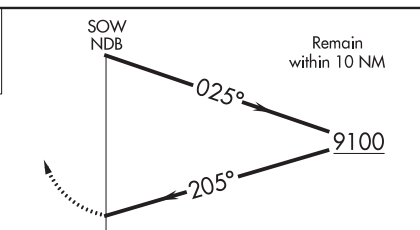
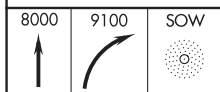
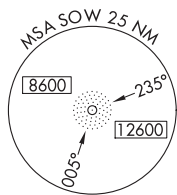
ALBUQUERQUE CENTER
132.9 239.05

UNICOM
123.0 (CTAF) 1



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	7600-1¼ 1185 (1200-1¼)	7600-1½ 1185 (1200-1½)	7600-3 1185 (1200-3)	NA

REIL Rwy 6 and 24 **1**
MIRL Rwy 6-24 **1**

SHOW LOW, ARIZONA
Amdt 1A 03MAR16

34°16'N-110°00'W

SHOW LOW RGNL (SOW)
NDB-A

SPRINGERVILLE, ARIZONA

AL-6631 (FAA)

14317

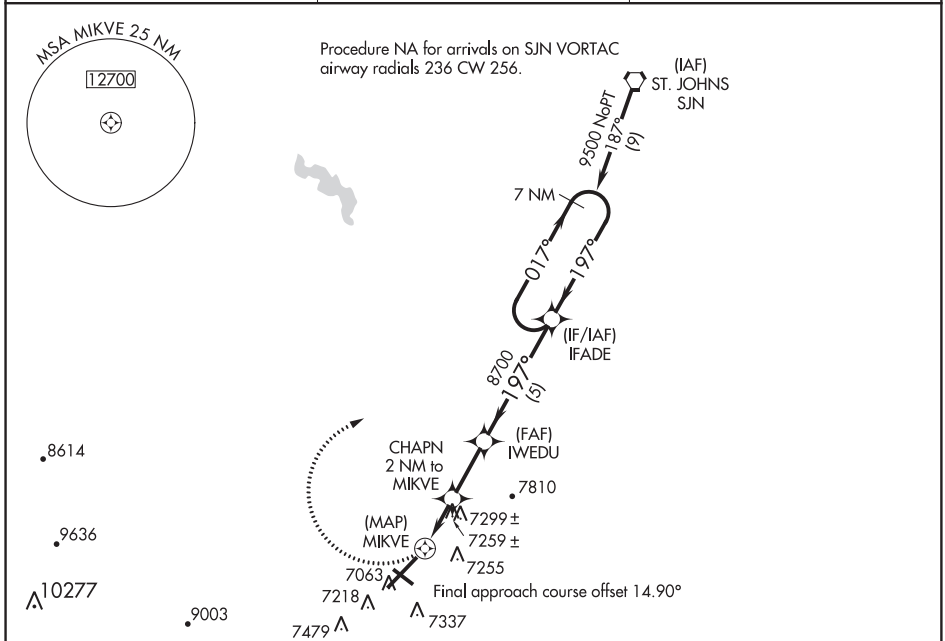
WAAS CH 40124 W21A	APP CRS 197°	Rwy Idg TDZE Apt Elev	8422 7032 7055
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 21

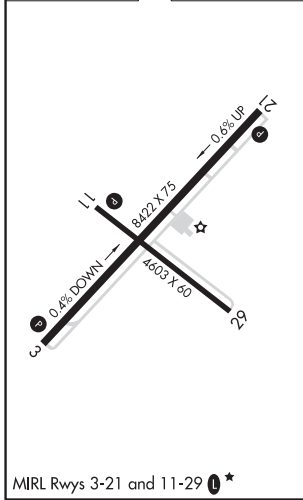
SPRINGERVILLE MUNI (JTC)

<p>▽ DME/DME RNP-0.3 NA.</p> <p>△ NA Night Landing: Rwy 3 NA.</p>	<p>MISSED APPROACH: Climbing right turn to 12000 direct IFADE and hold, continue climb-in-hold to 12000.</p>
---	--

<p>AWOS-3PT 119.65</p>	<p>ALBUQUERQUE CENTER 132.9 239.05</p>	<p>UNICOM 122.8 (CTAF) 0*</p>
-----------------------------------	---	--



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	7720-1 665 (700-1)	7740-1 685 (700-1)		NA

SPRINGERVILLE, ARIZONA
Amdt 1B 13NOV14

34°08'N-109°19'W
485

SPRINGERVILLE MUNI (JTC) RNAV (GPS) RWY 21

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS **209°**
 Rwy Idg **7001**
 TDZE **5759**
 Apt Elev **5820**

GPS RWY 21
 TAYLOR MUNI (TYL)

NA MISSED APPROACH: Climbing right turn to 7700 direct CAMBA WP and hold.

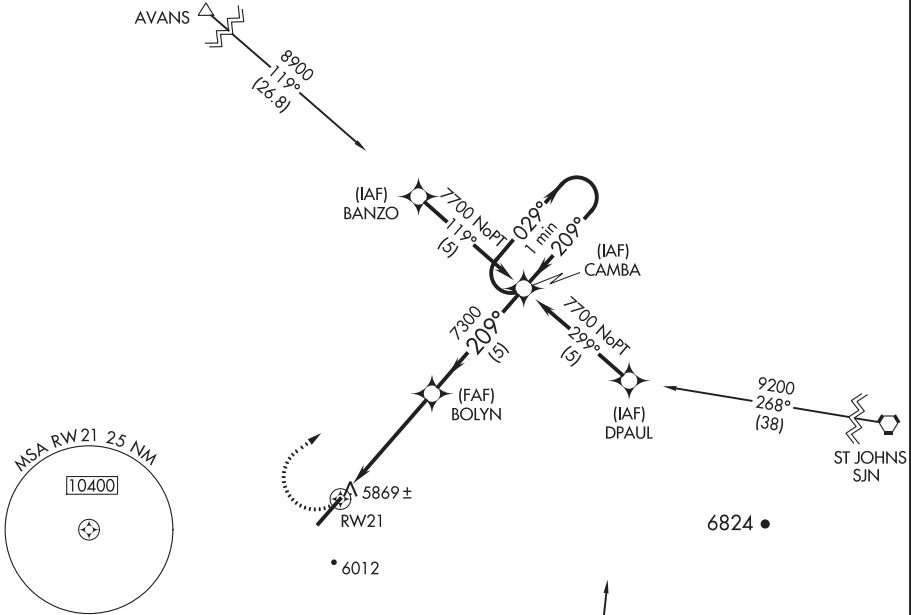
AWOS-3PT
119.075

ALBUQUERQUE CENTER
132.9 239.05

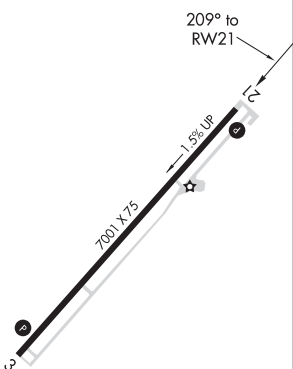
UNICOM
122.7 (CTAF)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

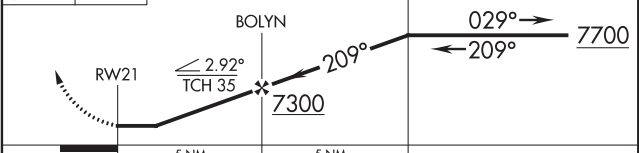


ELEV 5820 TDZE 5759



REIL Rws 3 and 21
 MRL Rwy 3-21

7700 CAMBA VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 49). **One Minute Holding Pattern**



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)

(CAMBA3.CAMBA) 16203

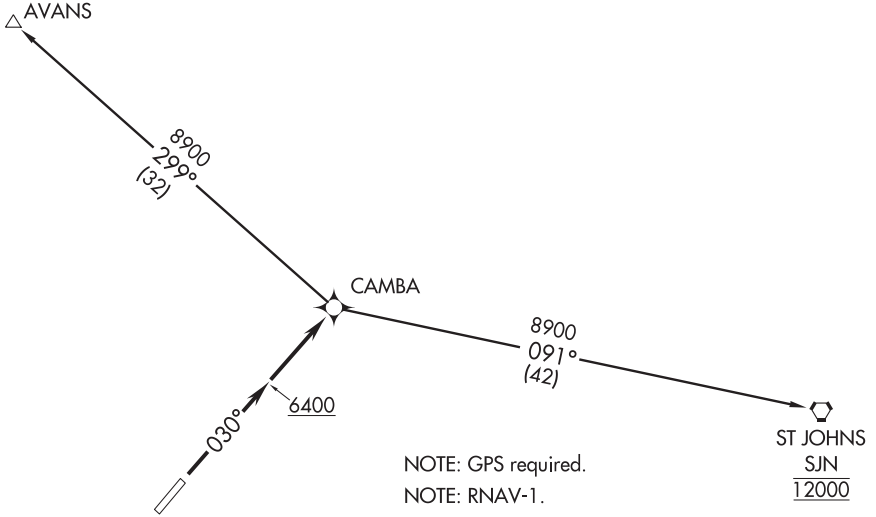
CAMBA THREE DEPARTURE (RNAV)

SL-9422 (FAA)

TAYLOR MUNI (TYL)
TAYLOR, ARIZONA

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.

TAKEOFF OBSTACLE NOTES

Rwy 3: Vehicles on road beginning 1823' from DER, 698' right of centerline, up to 17' AGL/5726' MSL.
Powerlines crossing departure course 1000' from DER.

NOTE: Chart not to scale.



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)

CAMBA THREE DEPARTURE (RNAV)

(CAMBA3.CAMBA) 21JUL16

TAYLOR, ARIZONA
TAYLOR MUNI (TYL)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 42924 W15A	APP CRS 150°	Rwy Idg TDZE Apt Elev	7158 5430 5430
---------------------------------	------------------------	-----------------------------	---

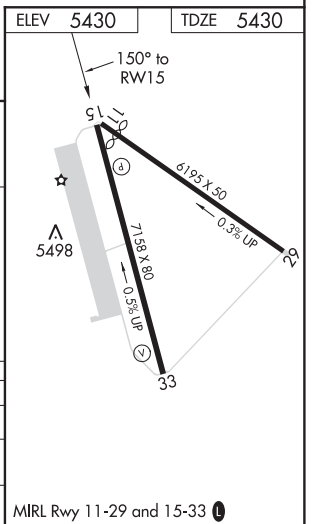
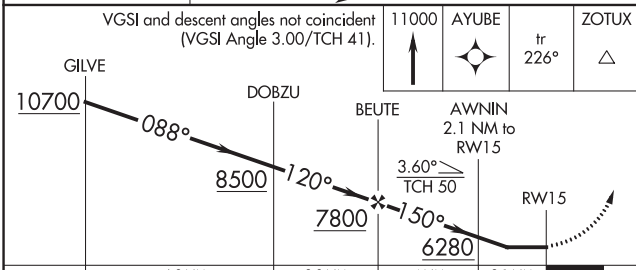
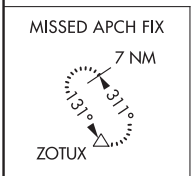
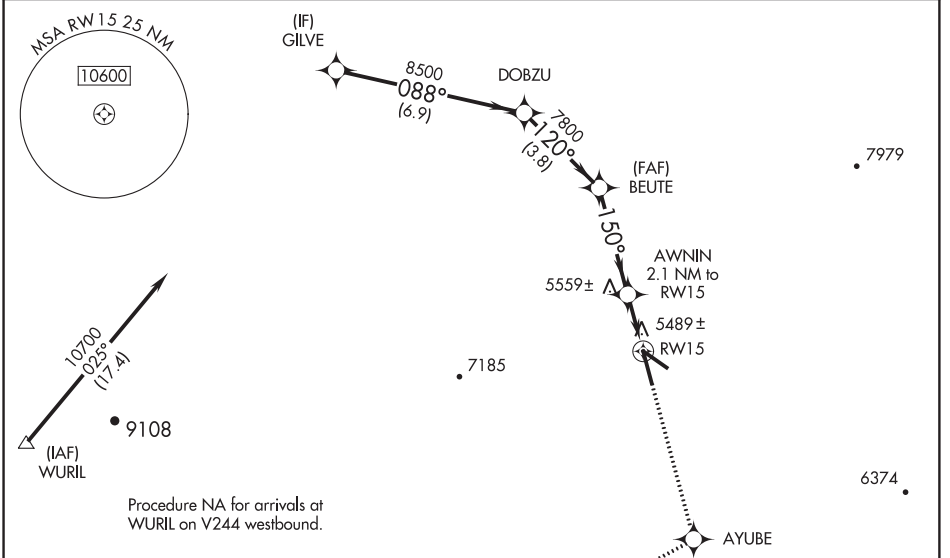
RNAV (GPS) RWY 15

TONOPAH (TPH)

⚠ Circling to Rwy 11-29 NA at night. When local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA. Night Landing: Rwy 15 Cat C NA.

MISSED APPROACH: Climb to 11000 direct AYUBE and on track 226° to ZOTUX and hold.

ASOS 118.875	NELLIS APP CON 119.35 254.4	UNICOM 123.0 (CTAF) Ⓛ
------------------------	---------------------------------------	--



CATEGORY	A	B	C	D
LP MDA	5740-1 310 (400-1)			NA
LNVA MDA	5820-1	390 (400-1)	5820-1 1/8 390 (400-1 1/8)	NA
CIRCLING	5880-1 450 (500-1)	5900-1 470 (500-1)	5920-1 1/2 490 (500-1 1/2)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC TPH 117.2 Chan 119	APP CRS 280°	Rwy Idg TDZE Apt Elev N/A N/A 5430
---	------------------------	--

VOR or GPS-A

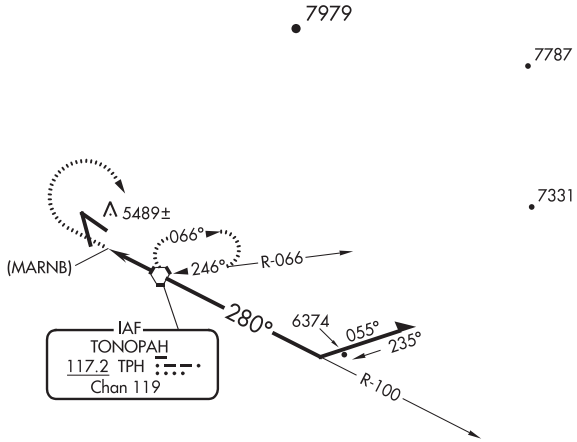
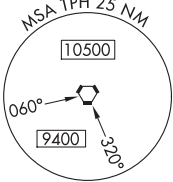
TONOPAH (TPH)

MISSED APPROACH: Climb to 6400 then climbing right turn to 9000 direct TPH VORTAC and hold.

ASOS
118.875

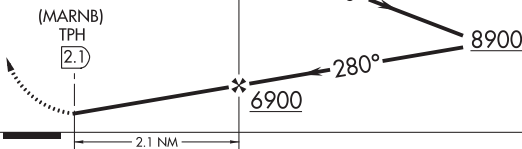
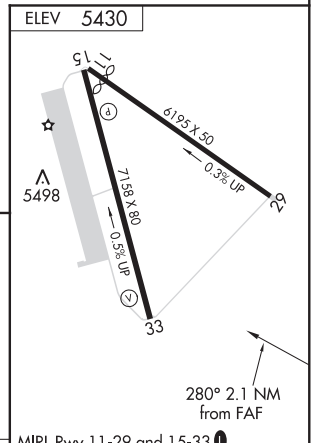
NELLIS APP CON
119.35 254.4

UNICOM
123.0 (CTAF)



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D	ELEV 5430					
CIRCLING	6100-1 670 (700-1)		6100-2 670 (700-2)	6100-2 1/4 670 (700-2 1/4)	MIRL Rwy 11-29 and 15-33					
	Remain within 10 NM				FAF to MAP 2.1 NM					
					Knots	60	90	120	150	180
					Min:Sec	2:06	1:24	1:03	0:50	0:42

AIRPORT DIAGRAM

AL-423 (FAA)

TONOPAH (TPH)
TONOPAH, NEVADA

ASOS
118.875
CTAF/UNICOM
123.0

VAR 12.8° E
JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

FIELD
ELEV
5430

ELEV
5430

38°04'N

5498

ELEV
5410

38°03'N

RWY 11-29
S-30, D-66, 2S-84, 2D-77
RWY 15-33
S-30

ELEV
5395

117°06'W

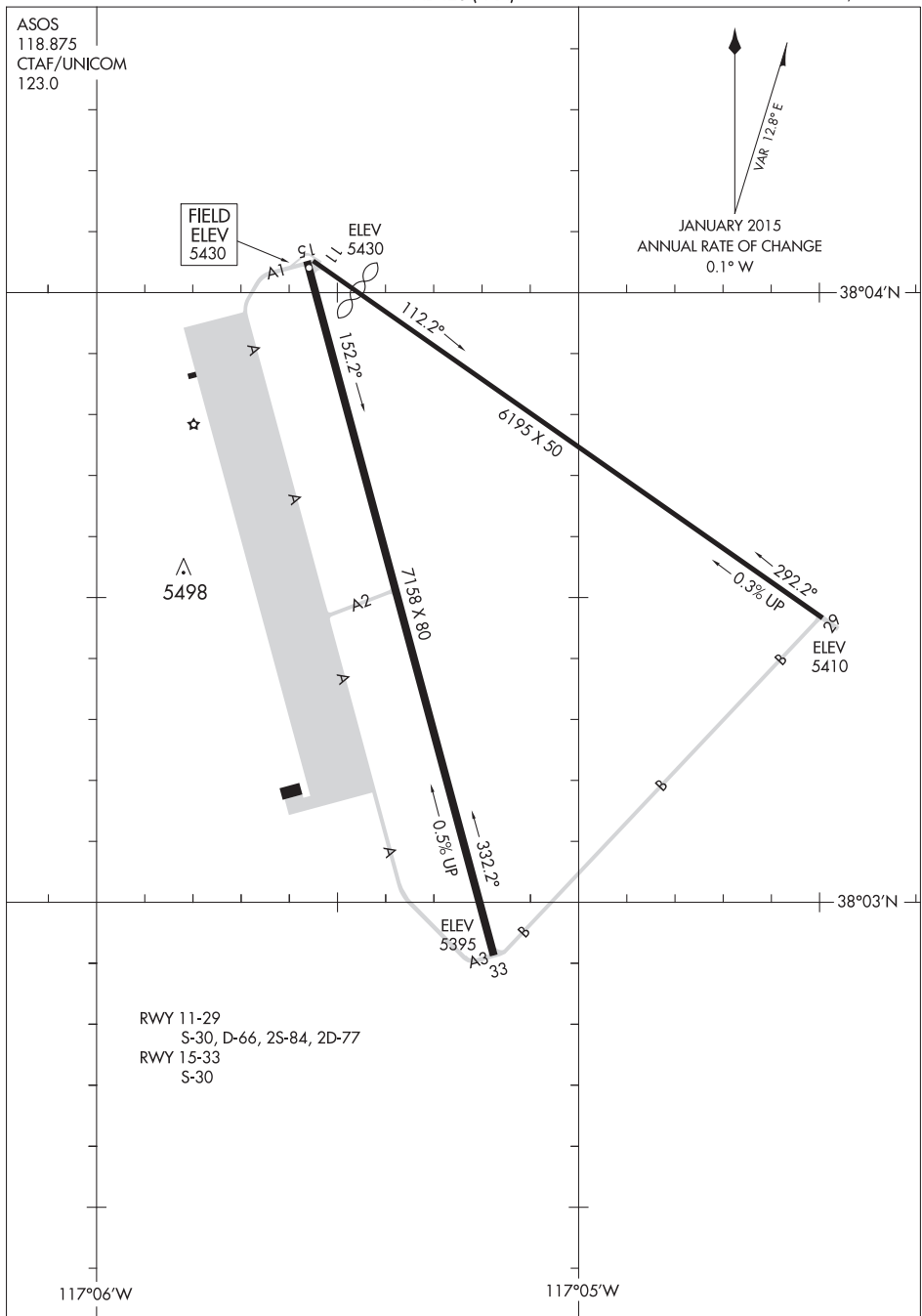
117°05'W

AIRPORT DIAGRAM

TONOPAH, NEVADA
TONOPAH (TPH)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



TONOPAH, NEVADA

ILS or LOC/DME RWY 14

LOC I-RVP 108.3	APCH CRS 141°	Rwy Idg THRE Arpt Elev 12,001 5473 5550
---------------------------	-------------------------	---

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

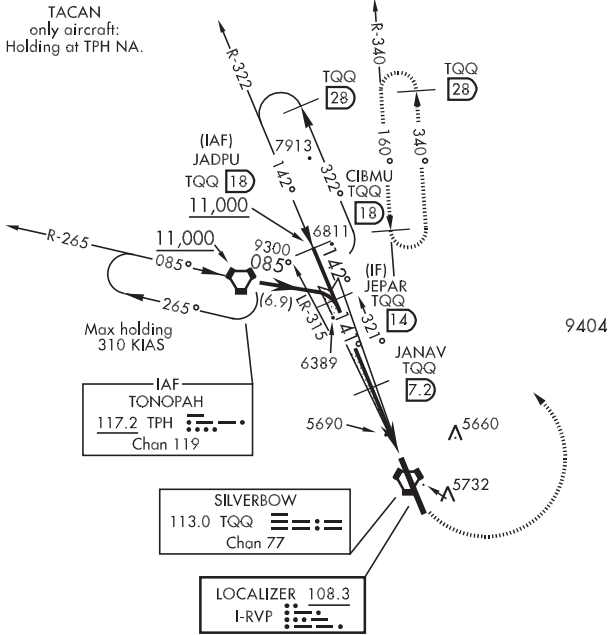
▼ *When ALS inop, increase CAT ABCDE vis to ¾ mile.
 **When ALS inop, increase CAT AB vis to 1 mile, CAT CDE to 1½ miles.
 ***Circling not authorized West of Rwy 14/32.



MISSED APPROACH: Turn left climbing to 11,000 via TQQ R-340 to CIBMU and hold, continue climb-in-hold to 11,000.

AWOS 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER 124.75 257.95 ★	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------

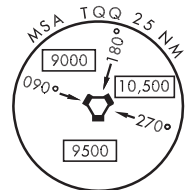
TACAN
only aircraft:
Holding at TPH NA.



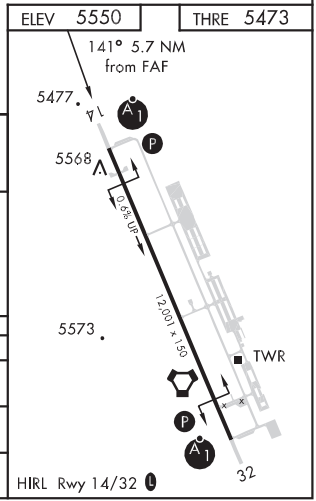
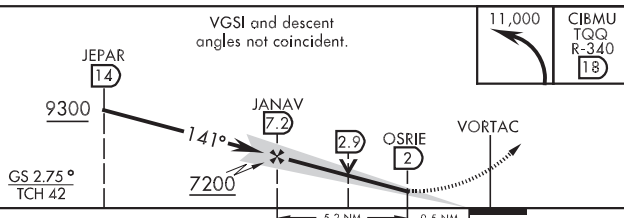
CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5558' MSL, 200' prior to Rwy 32 threshold, 200' left of centerline.

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.



EMERG SAFE ALT 100 NM 16,600



CATEGORY	A	B	C	D	E
S-ILS 14*	5673 - 1/2		200	(200-1/2)	
S-LOC 14**	5960-1/2 487 (500-1/2)		5960-1	487	(500-1)
CIRCLING***	6040-1 490 (500-1)		6040-1 1/2 490 (500-1/2)	6100-2 550 (600-2)	

TONOPAH, NEVADA
Amdt 3 09JAN14

37°47'N - 116°47'W

TONOPAH TEST RANGE (KTNX)

ILS or LOC/DME RWY 14

SW-4, 10 NOV 2016 to 05 JAN 2017

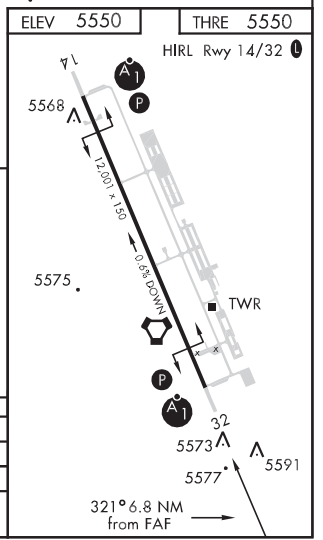
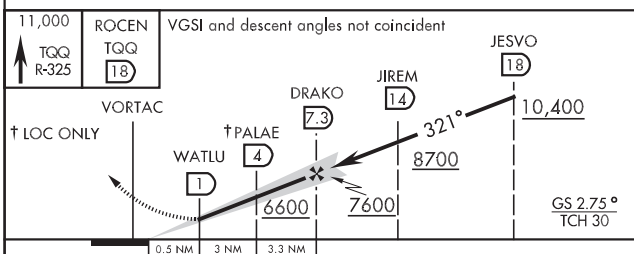
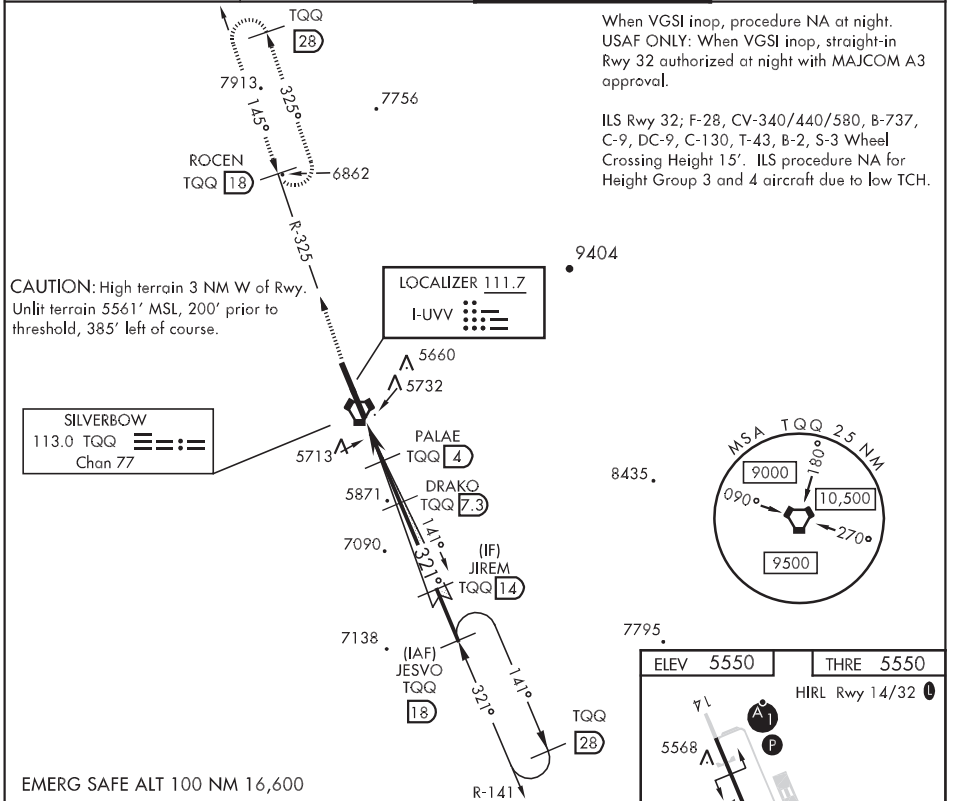
SW-4, 10 NOV 2016 to 05 JAN 2017

TONOPAH, NEVADA

ILS or LOC/DME RWY 32

LOC I-UVV 111.7	APCH CRS 321°	Rwy Idg THRE Arpt Elev 12,001 5550 5550	AL-3188 [USAF]	TONOPAH TEST RANGE (KTNX)
* When ALS inop, increase CAT CDE vis to 1/4 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 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER 124.75 257.95 *	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------



CATEGORY	A	B	C	D	E
S-ILS 32		5800-1	250 (300-1)		
S-LOC 32 *		5980-1	430 (500-1)		
CIRCLING **	6040-1 490 (500-1)		6040-1 1/2 490 (500-1 1/2)	6100-2 550 (600-2)	

TONOPAH, NEVADA 37°47'N - 116°47'W TONOPAH TEST RANGE (KTNX)

Amdt 2 09JAN14

ILS or LOC/DME RWY 32

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TONOPAH, NEVADA

RNAV (GPS) RWY 14

APCH CRS 141°	Rwy Idg 12,001
THRE 5473	Arpt Elev 5550

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1 3/8 miles.
 ** Circling not authorized West of Rwy 14/32.



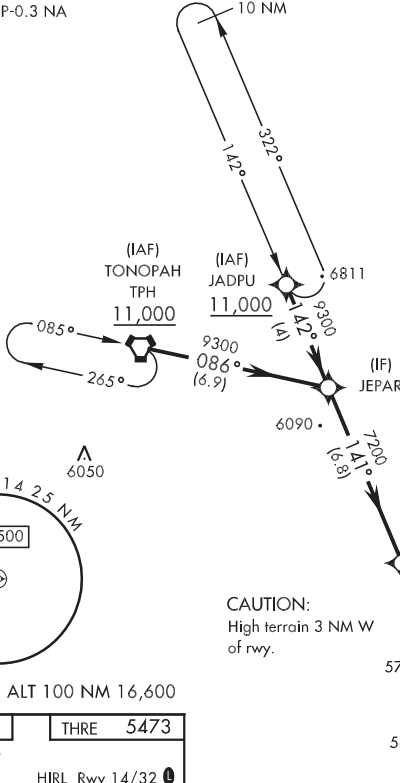
MISSED APPROACH: Turn left climbing to 11,000 direct JADPU and hold, continue climb-in-hold to 11,000.

AWOS 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER 124.75 257.95	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------

DME/DME RNP-0.3 NA

CAUTION: 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.

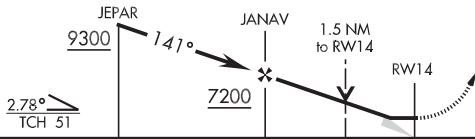
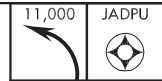
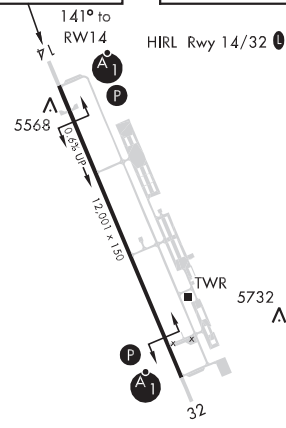


CAUTION: High terrain 3 NM W of rwy.

8840 •

EMERG SAFE ALT 100 NM 16,600

ELEV 5550	THRE 5473
-----------	-----------



CATEGORY	A	B	C	D	E
LNAV MDA *	5980-1/2 507 (500-1/2)		5980-1	507	(500-1)
C CIRCLING **	6040-1 490 (500-1)		6040-1 1/2 490 (500-1 1/2)		6100-2 550 (600-2)

TONOPAH, NEVADA
Amdt 3 09JAN14

37°47'N-116°47'W

TONOPAH TEST RANGE (KTNX)

RNAV (GPS) RWY 14

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TONOPAH, NEVADA

RNAV (GPS) RWY 32

APCH CRS 321°	Rwy Idg 12,001
THRE 5550	Arpt Elev 5550

AL-3188 [USAF]

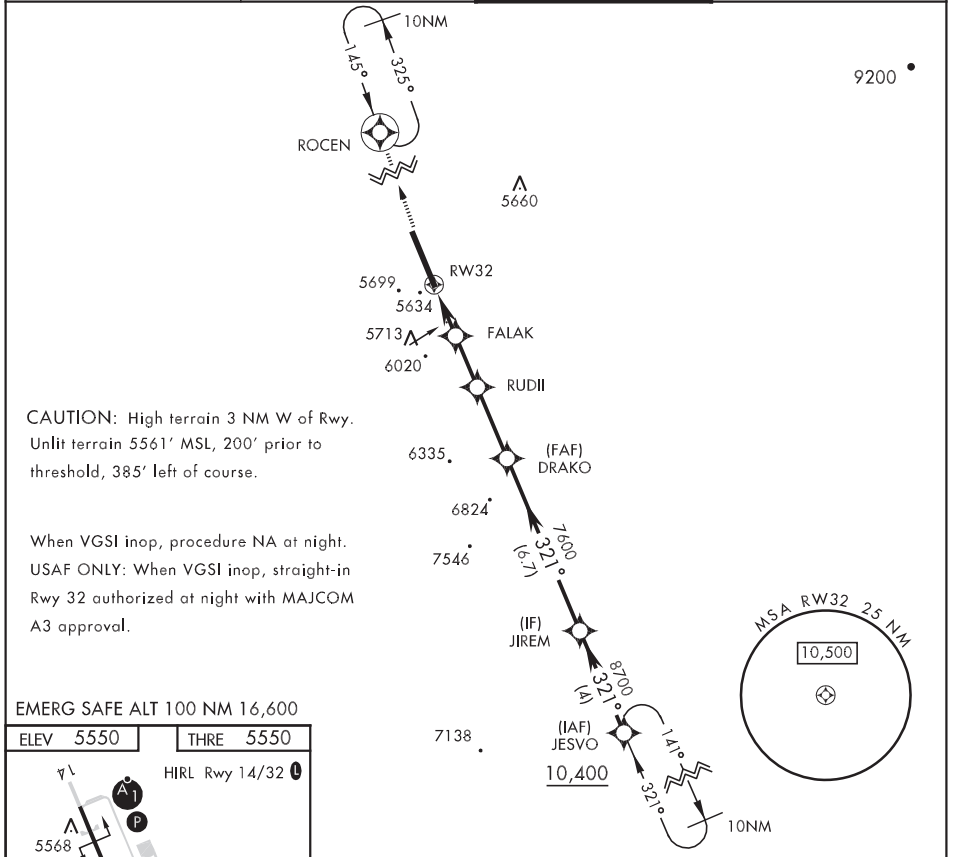
TONOPAH TEST RANGE (KTNX)

∇ * When ALS inop, increase CAT CDE vis to 1¼ miles.
 ** Circling NA West of Rwy 14/32.
 DME/DME RNP-0.3 NA



MISSED APPROACH: Climb to 11,000 direct ROCEN and hold, continue climb-in-hold to 11,000.

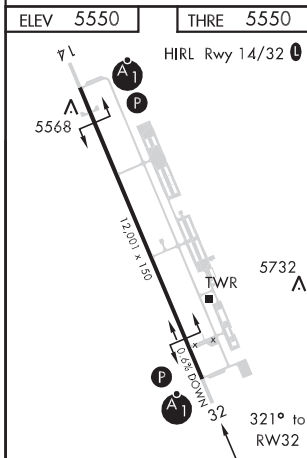
AWOS 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER 124.75 257.95	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------



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



11,000	ROCEN					
		DRAKO	JIREM			
		7600	8700			
		RUDII	FALAK	RW32		
		6700	6160			
		2.8 NM	2 NM	2 NM		
CATEGORY	A	B	C	D	E	
LNAV MDA *	5980-1		430	(500-1)		
C CIRCLING **	6040-1 490 (500-1)		6040-1½ 490 (500-1½)	6100-2 550 (600-2)		

TONOPAH, NEVADA
 Amdt 2 09JAN14

37°47'N-116°47'W

TONOPAH TEST RANGE (KTNX)

RNAV (GPS) RWY 32

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TONOPAH, NEVADA

VOR/DME Z RWY 14

VORTAC TQG 113.0 Chan 77	APCH CRS 145°	Rwy Idg 12,001 THRE 5473 Arpt Elev 5550
--	-------------------------	--

AL-3188 [USAF]

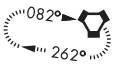
TONOPAH TEST RANGE (KTNX)

▼ *Circling not authorized W of Rwy 14/32.



MISSED APPROACH: Turn left, climb to 11,000 direct to TPH VORTAC and hold. Continue climb in holding to 11,000.

AWOS 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER ★ 124.75 257.95 0	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------

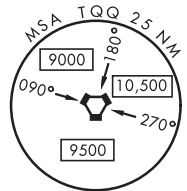
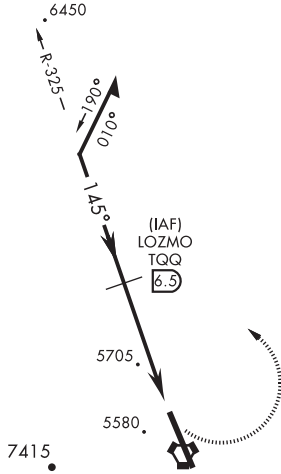


When VGSI inop, procedure NA at night.

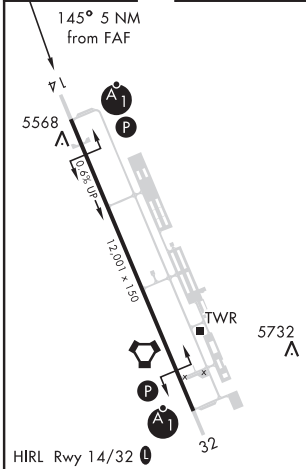
USAF ONLY: When Rwy 14 VGSI inop, straight-in Rwy 14 authorized at night with MAJCOM A3 approval.

CAUTION: When Rwy 32 VGSI inop, circling to Rwy 32 NA at night.

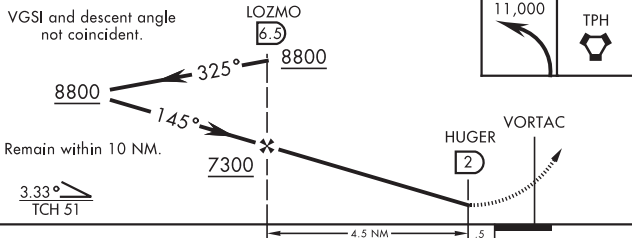
CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5558' MSL, 200' prior to Rwy 32 threshold, 200' left of centerline.



ELEV 5550	THRE 5473
------------------	------------------



EMERG SAFE ALT 100 NM 16,600 FROM TQG



CATEGORY	A	B	C	D	E
S-14	5960/24	487 (500-1/2)	5960/50 487 (500-1)	NOT AUTHORIZED	
C CIRCLING*	6040-1	490 (500-1)	6040-1 1/2 490 (500-1 1/2)	NOT AUTHORIZED	

TONOPAH, NEVADA
Amdt 2 29MAY14

37°47'N-116°47'W

TONOPAH TEST RANGE (KTNX)

VOR/DME Z RWY 14

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TONOPAH, NEVADA

VOR/DME Z RWY 32

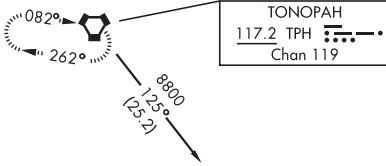
VORTAC TQG 113.0 Chan 77	APCH CRS 314°	Rwy Ldg THRE 5550 Arpt Elev 5550
--	-------------------------	--

AL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

*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 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER ★ 124.75 257.95	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------

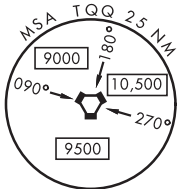
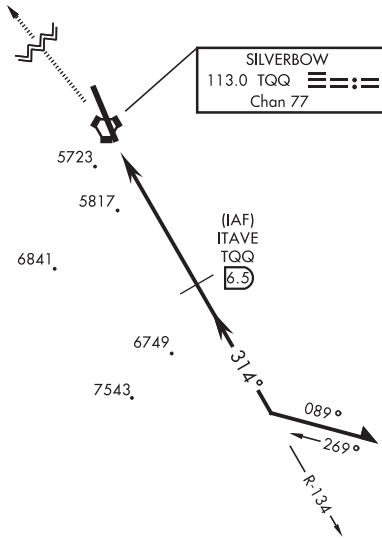


9386 ●

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.

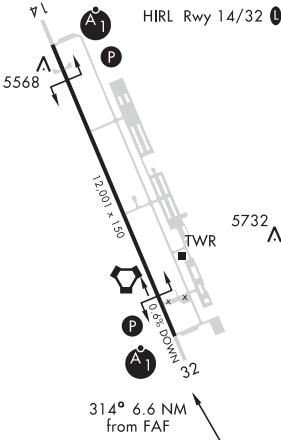
7415 ●



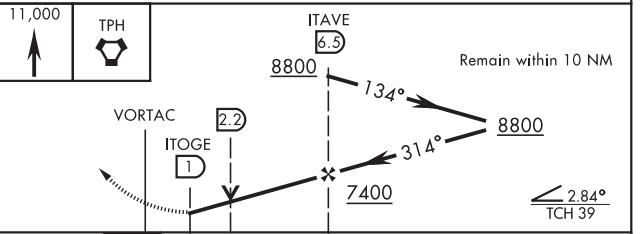
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 5550	THRE 5550
------------------	------------------



EMERG SAFE ALT 100 NM 16,600 FROM TQG



CATEGORY	A	B	C	D	E
S-32	6080/24	530 (600-1/2)	6080/55 530 (600-1)	NOT AUTHORIZED	
CIRCLING*	6080-1	530 (600-1)	6080-1 1/2 530 (600-1 1/2)	NOT AUTHORIZED	

TONOPAH, NEVADA

37°47'N-116°47'W

TONOPAH TEST RANGE (KTNX)

Amdt 2 29MAY14

VOR/DME Z RWY 32

TONOPAH, NEVADA

VOR/DME or TACAN RWY 32

VORTAC TQQ 113.0 Chan 77	APCH CRS 314°	Rwy Idg 12,001 THRE 5550 Arpt Elev 5550
--	-------------------------	--

AL-3188 [USAF]

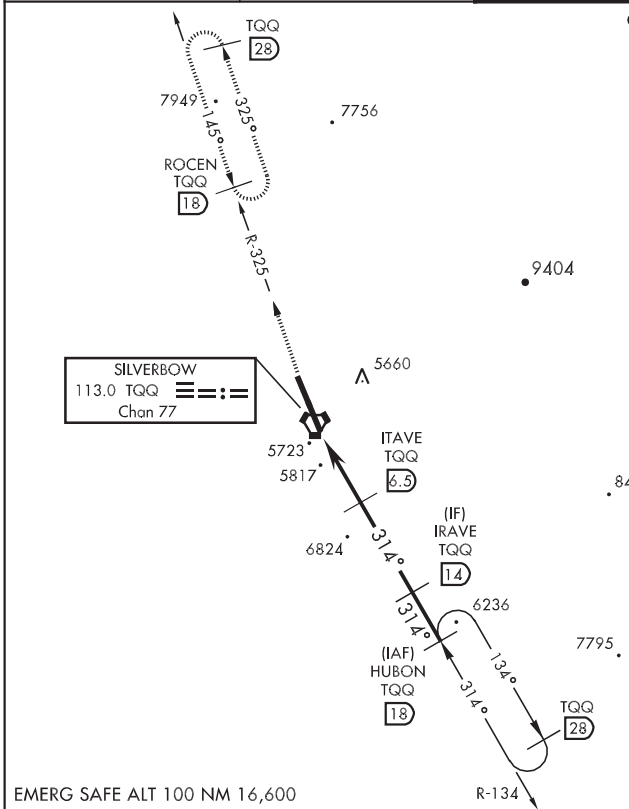
TONOPAH TEST RANGE (KTNX)

▼ * When ALS inop, increase CAT CDE vis to 1½ miles.
** Circling NA W of Rwy 14/32



MISSED APPROACH: Climb to 11,000 via TQQ VORTAC R-325 to ROCEN and hold, continue climb in hold to 11,000.

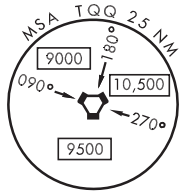
AWOS 113.0	NELLIS CONTROL 119.35 254.4	SILVERBOW TOWER 124.75 257.95 ☆	GND CON 127.25 335.5
----------------------	---------------------------------------	---	--------------------------------



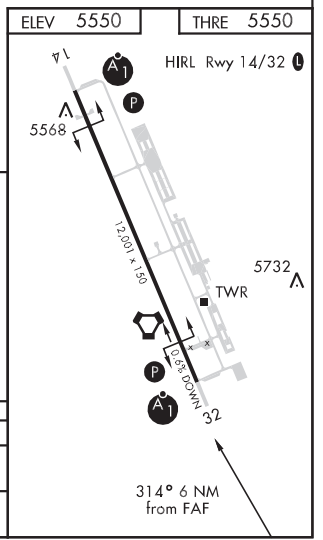
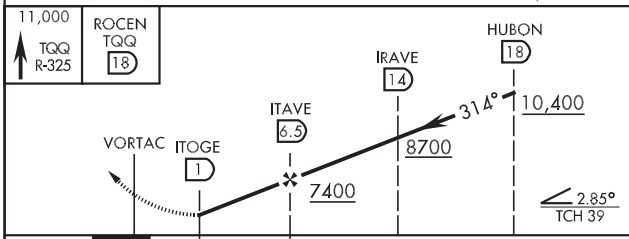
CAUTION: High terrain 3 NM W of Rwy. Unlit terrain 5561' MSL, 200' prior to threshold, 385' left of course.

When VGSI inop, procedure NA at night.
USAF ONLY: When VGSI inop, straight-in Rwy 32 authorized at night with MAJCOM A3 approval.

SILVERBOW
113.0 TQQ
Chan 77



EMERG SAFE ALT 100 NM 16,600



CATEGORY	A	B	C	D	E
S-32 *	6080-1 530 (600-1)				
CIRCLING **	6080-1	530 (600-1)	6080-1½ 530 (600-1½)	6100-2	550 (600-2)

TONOPAH, NEVADA
Amdt 2 09JAN14

37°47'N - 116°47'W

TONOPAH TEST RANGE (KTNX)

VOR/DME or TACAN RWY 32

SW-4, 10 NOV 2016 to 05 JAN 2017

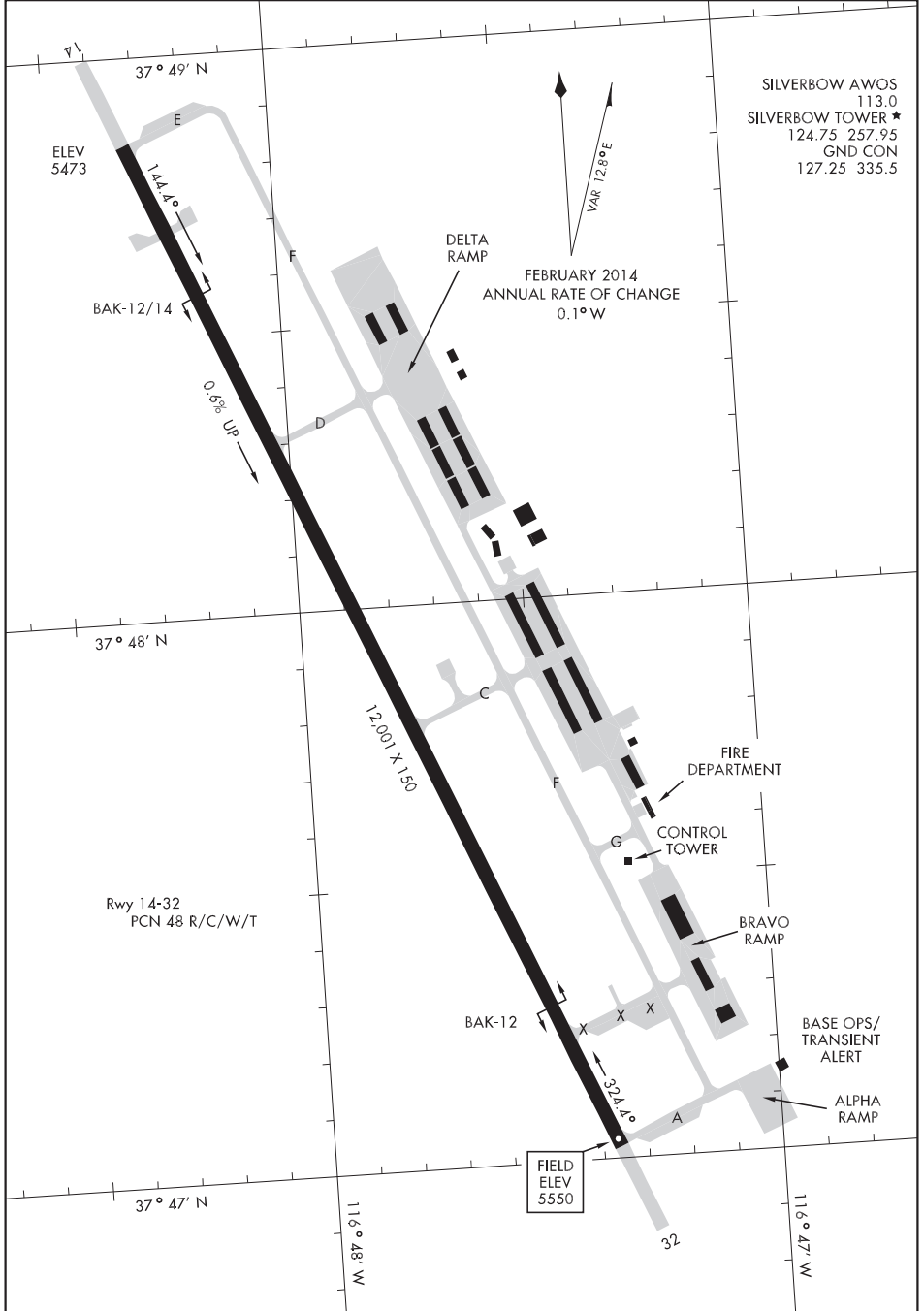
SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AFD-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

TONOPAH, NEVADA



SILVERBOW AWOS 113.0
 SILVERBOW TOWER ★ 124.75 257.95
 GND CON 127.25 335.5

FEBRUARY 2014
 ANNUAL RATE OF CHANGE
 0.1° W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

TONOPAH, NEVADA
TONOPAH TEST RANGE (KTNX)

RANGE TWO (RNAV) DEPARTURE (RANGE2•TPH)

TONOPAHA TEST RANGE (KTNX)

SHL-3188 [USAF]

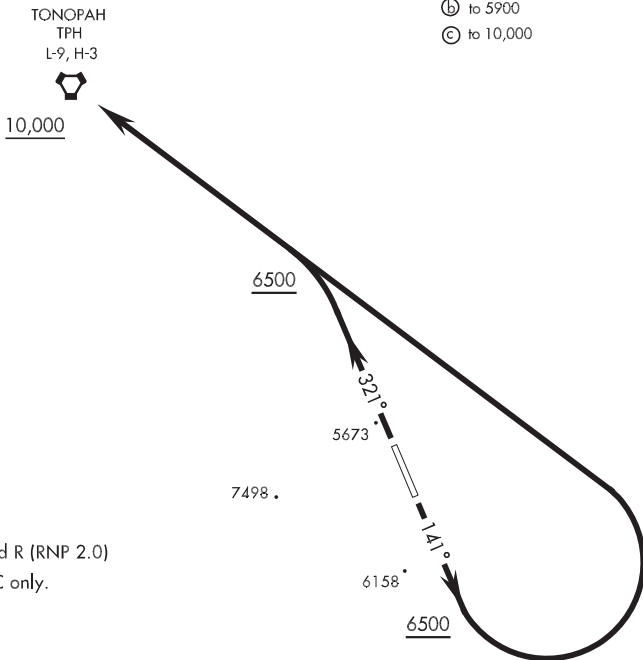
TONOPAHA, NEVADA

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 (a)	V/V(fpm)	205	410	615	820	1025	1230
32 (b)	V/V(fpm)	260	520	780	1040	1300	1560
32 (c)	V/V(fpm)	263	526	789	1052	1315	1578

MINIMUM CLIMB RATE

- (a) to 7500
- (b) to 5900
- (c) to 10,000



For use by E/F/G and R (RNP 2.0)
 equipped A/C only.

GPS REQUIRED



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.

14037

STOFF TWO DEPARTURE (STOFF2•STOFF)

TONOPAH TEST RANGE (KTNX)

TONOPAH, NEVADA

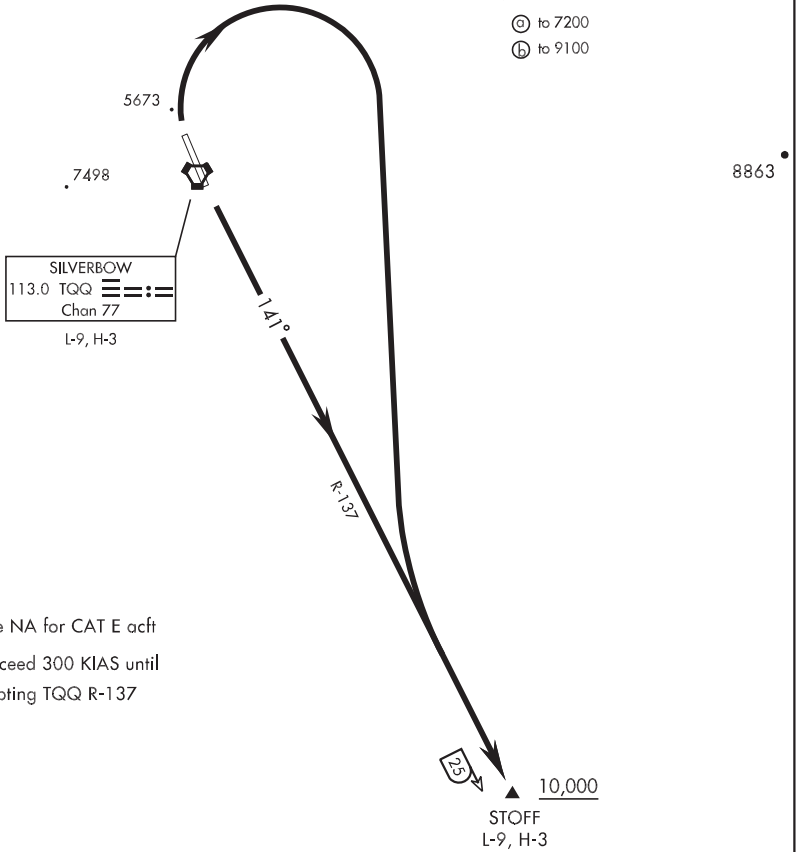
SHL-3188 [USAF]

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 (a) V/V(fpm)		205	410	615	820	1025	1230
32 (b) V/V(fpm)		260	520	780	1040	1300	1560

MINIMUM CLIMB RATE

- (a) to 7200
- (b) to 9100



Procedure NA for CAT E acft
 Do not exceed 300 KIAS until
 intercepting TQQ R-137

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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.

STOFF TWO DEPARTURE (STOFF2•STOFF)

TONOPAH, NEVADA

TONOPAH TEST RANGE (KTNX)

TONOPAH TWO DEPARTURE (TPH2-TPH)

SHL-3188 [USAF]

TONOPAH TEST RANGE (KTNX)

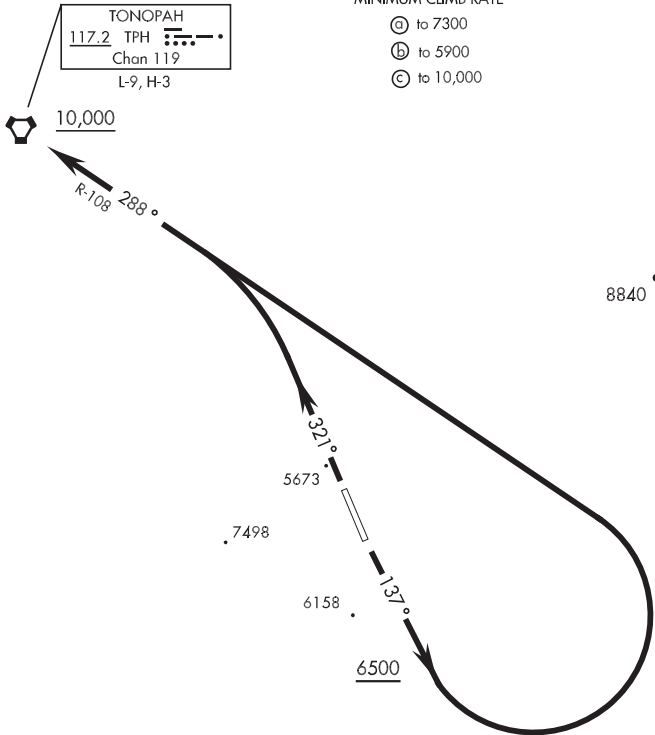
TONOPAH, NEVADA

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 (a)	V/V(fpm)	220	440	660	880	1100	1320
32 (b)	V/V(fpm)	260	520	780	1040	1300	1560
32 (c)	V/V(fpm)	261	522	783	1044	1305	1566

MINIMUM CLIMB RATE

- (a) to 7300
- (b) to 5900
- (c) to 10,000



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

14037

TUMBE ONE (RNAV) DEPARTURE (TUMBE1 · TUMBE)

TONOPAH TEST RANGE (KTNX)

TONOPAH, NEVADA

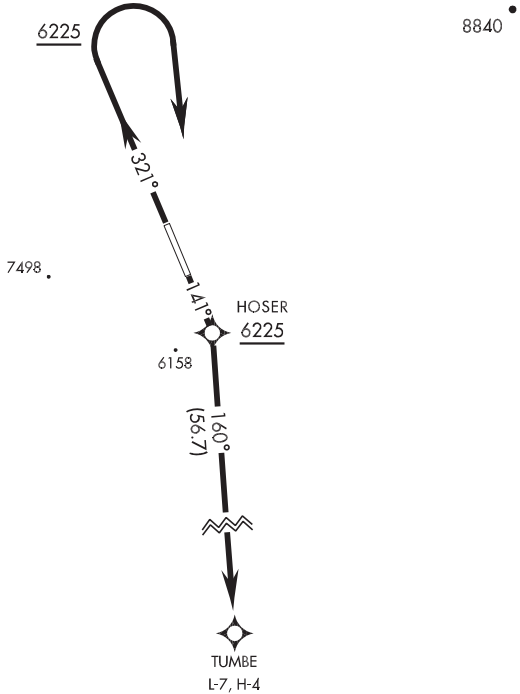
GND CON
 127.25 335.5
 SILVERBOW TOWER ★
 124.75 257.95
 NELLIS CONTROL
 119.35 254.4

SHL-3188 [USAF]

Rwy	Knots	60	120	180	240	300	360
14 (a)	V/V(fpm)	300	600	900	1200	1500	1800
32 (b)	V/V(fpm)	265	530	795	1060	1325	1590

Minimum Climb Rate

- (a) to 10,700
- (b) 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.

TUMBE ONE (RNAV) DEPARTURE (TUMBE1 · TUMBE)

TONOPAH, NEVADA

TONOPAH TEST RANGE (KTNX)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC/DME I-TVY 111.15 Chan 48 (Y)	APP CRS 166°	Rwy Idg TDZE Apt Elev	6100 4297 4322
---	------------------------	-----------------------------	---

ILS or LOC/DME RWY 17

BOLINDER FIELD-TOOELE VALLEY (TVY)

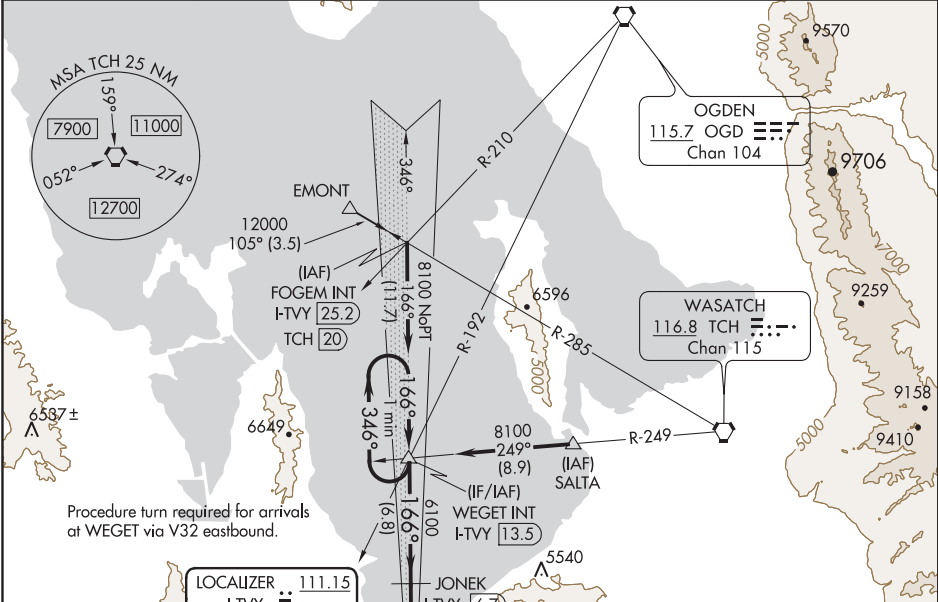
- ▼** DME required. When local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all DA/MDA 60 feet, increase S-LOC 17 Cat C/D visibility to ¾, Circling Cat D visibility to 2¼.
- ▲ NA**

MALSR



MISSED APPROACH: Climb to 5400 then climbing right turn to 9000 on heading 343° and OGD VORTAC R-192 to WEGET I-TVY /13.5 DME and hold, continue climb-in-hold to 9000.

AWOS-3 119.725	SALT LAKE CITY APP CON 135.5 316.15	CLNC DEL 124.4	UNICOM 123.0 (CTAF) 0
--------------------------	---	--------------------------	---------------------------------

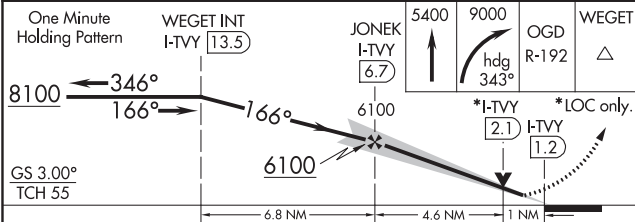
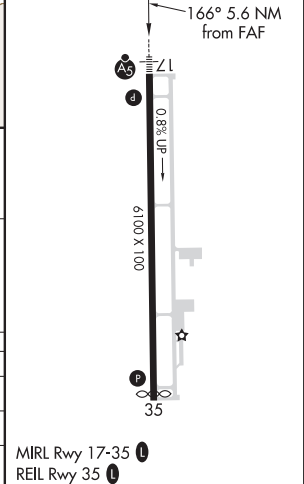


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOCALIZER 111.15
I-TVY
Chan 48 (Y)

ELEV 4322	TDZE 4297
-----------	-----------



CATEGORY	A	B	C	D
S-ILS 17	4497-½		200 (200-½)	
S-LOC 17	4640-½ 343 (400-½)		4640-5/8 343 (400-5/8)	
CIRCLING	4820-1 498 (500-1)	4840-1 518 (600-1)	4860-1½ 538 (600-1½)	4940-2 618 (700-2)

MIRL Rwy 17-35
REIL Rwy 35

WAAS CH 73031 W17A	APP CRS 166°	Rwy Idg TDZE Apt Elev	6100 4297 4322
---------------------------------	------------------------	-----------------------------	---

RNAV (GPS) RWY 17

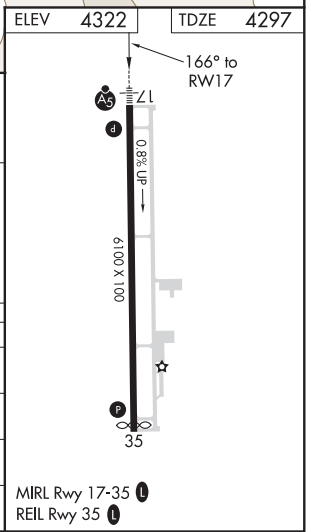
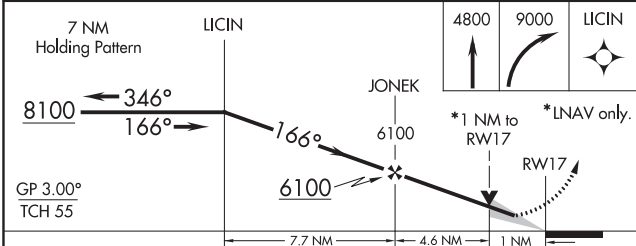
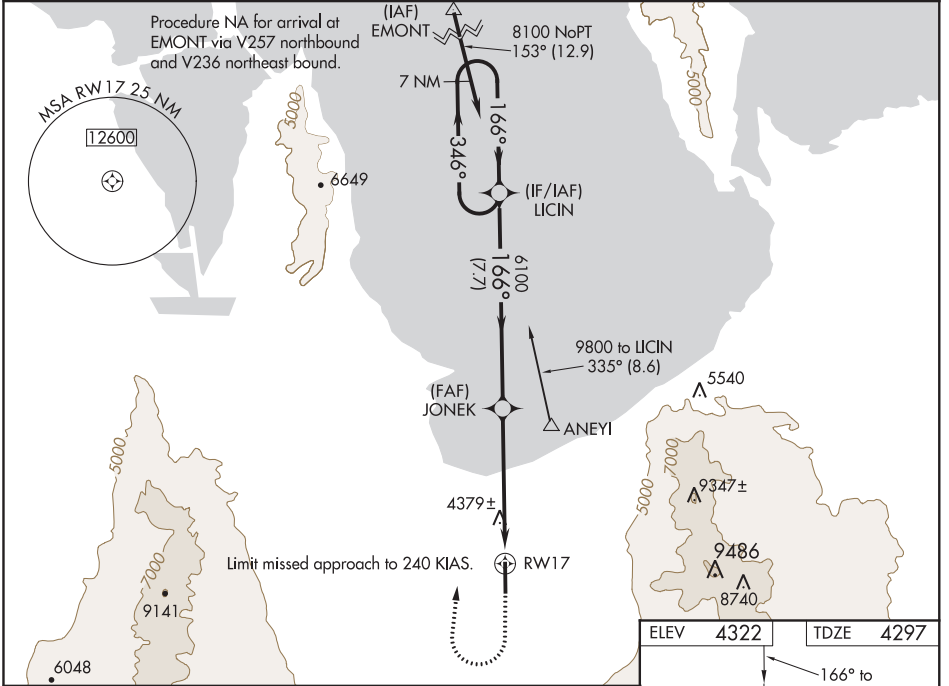
BOLINDER FIELD-TOOELE VALLEY (TVY)

NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-10°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Salt Lake City Intl altimeter setting. When local altimeter setting not received, use Salt Lake City Intl altimeter setting and increase all DA/MDA 60 feet, increase LNAV Cat C/D visibility to ¾, Circling Cat D visibility to 2¼.

MALSR **A5**

MISSED APPROACH: Climb to 4800 then climbing right turn to 9000 direct LICIN and hold, continue climb-in-hold to 9000.

AWOS-3 119.725	SALT LAKE CITY APP CON 135.5 316.15	CLNC DEL 124.4	UNICOM 123.0 (CTAF)
--------------------------	---	--------------------------	-------------------------------



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)
CIRCLING	4820-1 498 (500-1)	4840-1 518 (600-1)	4860-1½ 538 (600-1½)	4940-2 618 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

(STACO2.STACO) 16315

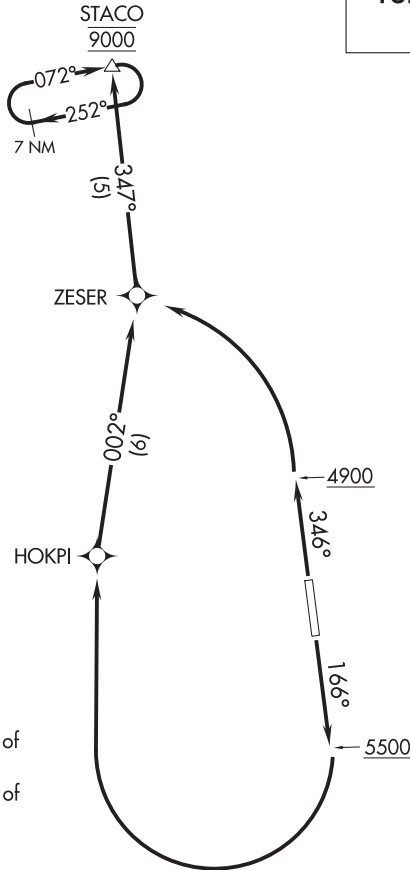
506
SL-6944 (FAA)

BOLINDER FIELD-TOOELE VALLEY (T'V'Y)
TOOELE, UTAH

STACO TWO DEPARTURE (RNAV)

**TOP ALTITUDE:
9000**

SALT LAKE CITY INTL ATIS
124.75 125.625
AWOS-3
119.725
SALT LAKE CITY DEP CON
135.5 316.15
CTAF
123.0



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.

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

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.

STACO TWO DEPARTURE (RNAV)

(STACO2.STACO) 15JUN15

TOOELE, UTAH
BOLINDER FIELD-TOOELE VALLEY (T'V'Y)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

LOC I-IVI 111.1	APP CRS 058°	Rwy Idg TDZE Apt Elev	5503 2402 2417
---------------------------	------------------------	-----------------------------	---

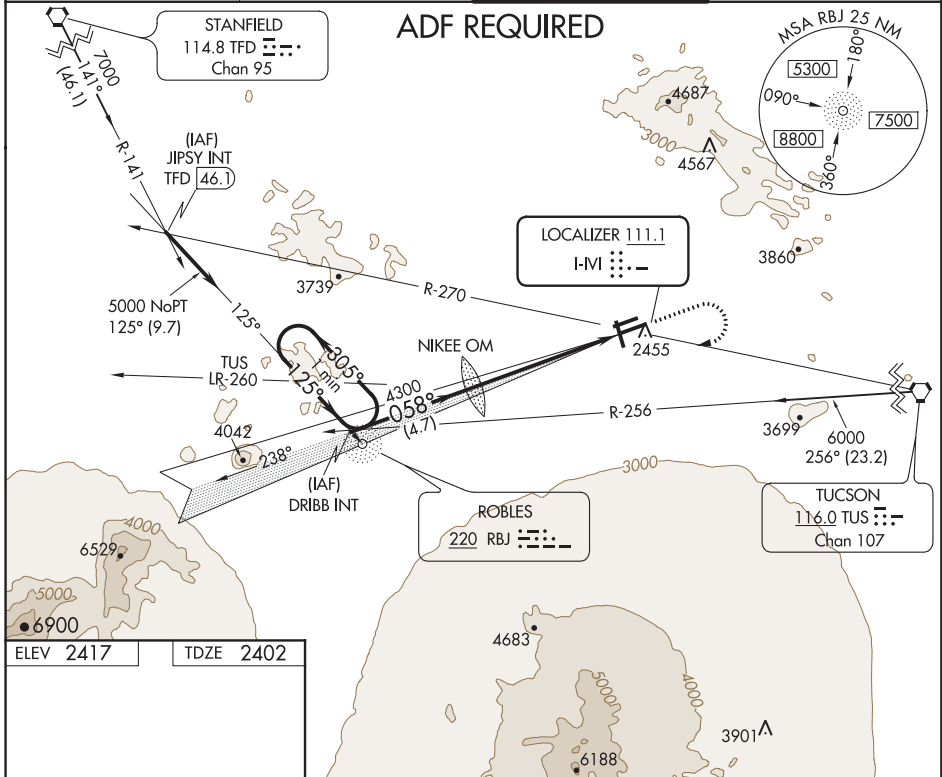
ILS or LOC RWY 6R

RYAN FIELD (RYN)

NA

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-3 133.35	TUCSON APP CON 128.5 273.6	RYAN TOWER ★ 125.8 (CTAF) 0	GND CON 118.2
-------------------------	--------------------------------------	---------------------------------------	-------------------------



ELEV 2417 TDZE 2402

REIL Rwy 6R

MIRL Rwy 6R-24L

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

One Minute Holding Pattern	DRIBB INT	3000	5000	RBJ	RBJ 305°	DRIBB INT
	NIKEE OM	5000	4262	4300	058°	058°
GS 3.00°	TCH 50	4.7 NM	5.6 NM			
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)		
CIRCLING	2900-1	483 (500-1)	2900-1½ 483 (500-1½)	2980-2	563 (600-2)	

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NDB RYN 338	APP CRS 074°	Rwy Idg TDZE Apt Elev	5503 2400 2415
-----------------------	------------------------	-----------------------------	---

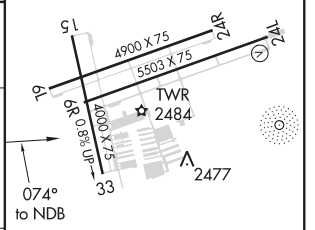
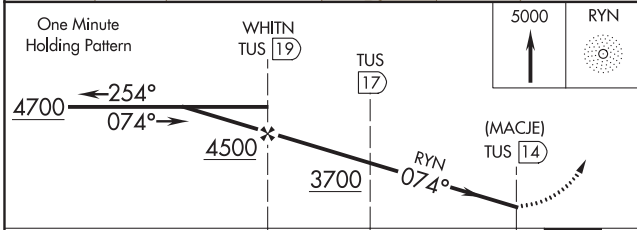
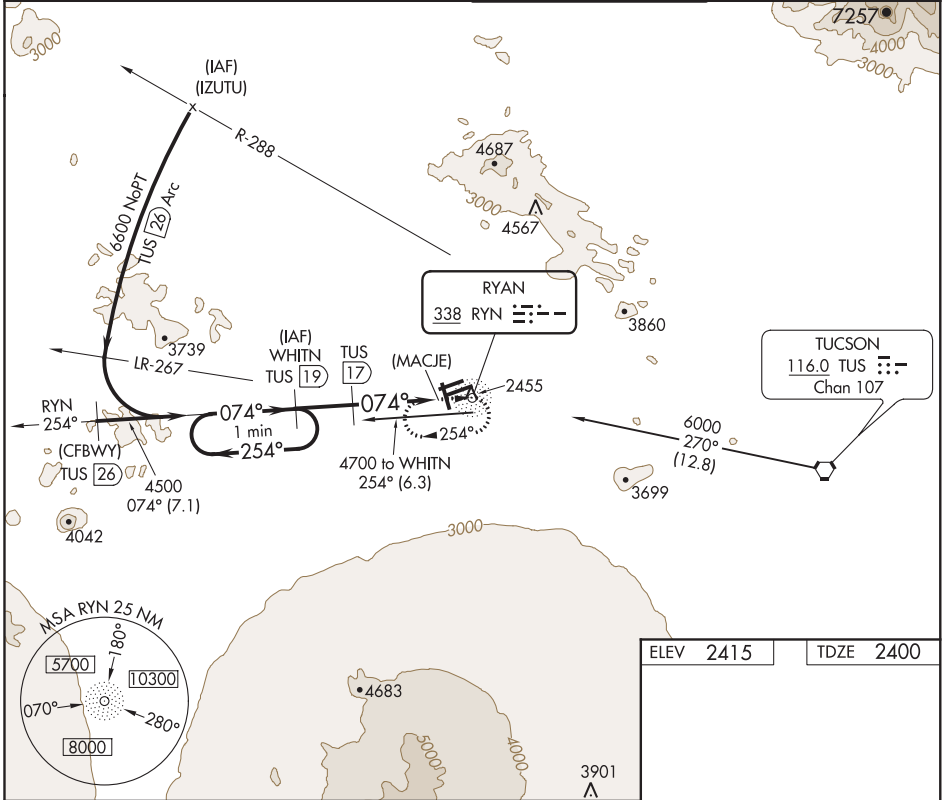
NDB/DME or GPS RWY 6R

RYAN FIELD (RYN)

NA DME from TUS VORTAC. Simultaneous reception of RYN NDB and TUS DME required.

MISSED APPROACH: Climb to 5000 direct RYN NDB and hold.

AWOS-3 133.35	TUCSON APP CON 128.5 273.6	RYAN TOWER ★ 125.8 (CTAF) 0	GND CON 118.2
-------------------------	--------------------------------------	--	-------------------------



CATEGORY	A	B	C	D
S-6R	3300-1¼	900 (900-1¼)	3300-2¾ 900 (900-2¾)	3300-3 900 (900-3)
CIRCLING	3300-1¼	885 (900-1¼)	3300-2¾ 885 (900-2¾)	3300-3 885 (900-3)

ELEV 2415 | TDZE 2400

REIL Rwy 6R
MIRL Rwy 6R-24L **0**

SW-4, 10 NOV 2016 to 05 JAN 2017

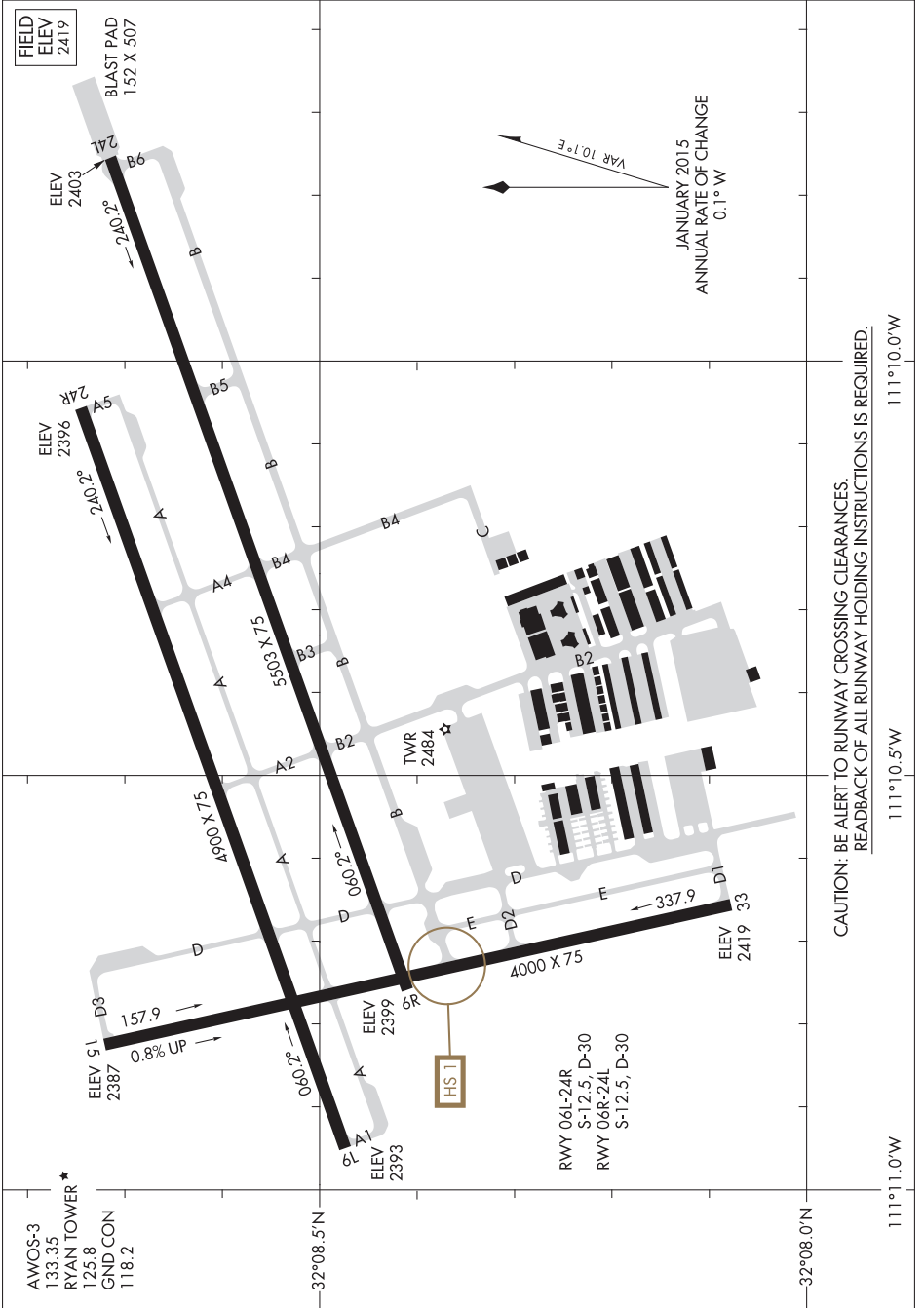
SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

AL-6513 (FAA)

RYAN FIELD (RYN)
TUCSON, ARIZONA

SW-4, 10 NOV 2016 to 05 JAN 2017



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

SW-4, 10 NOV 2016 to 05 JAN 2017

AIRPORT DIAGRAM

TUCSON, ARIZONA
RYAN FIELD (RYN)

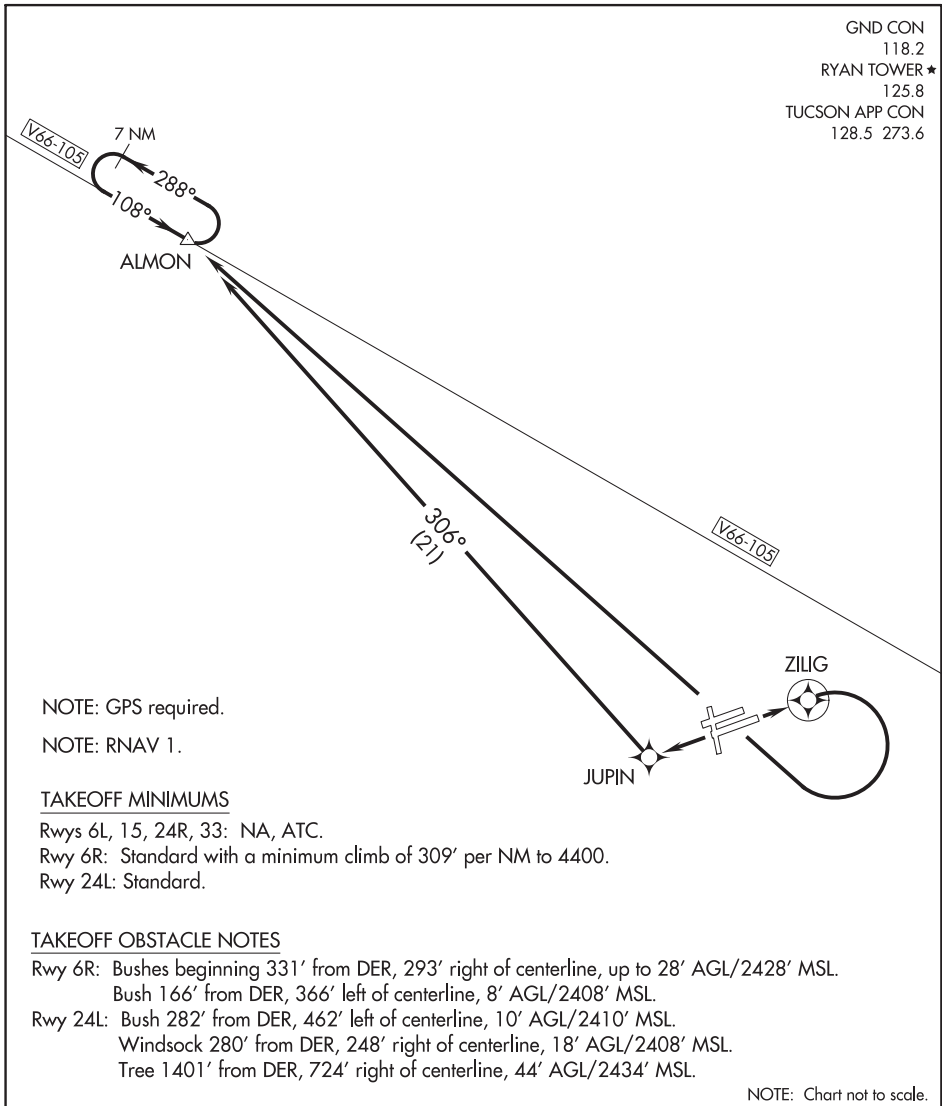
(ALMON1.ALMON) 16203

ALMON ONE DEPARTURE (OBSTACLE) (RNAV)

SL-6513 (FAA)

RYAN FIELD (RYN)
TUCSON, ARIZONA

GND CON 118.2
RYAN TOWER ★ 125.8
TUCSON APP CON 128.5 273.6



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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.

ALMON ONE DEPARTURE (OBSTACLE) (RNAV)

(ALMON1.ALMON) 29JUL10

TUCSON, ARIZONA
RYAN FIELD (RYN)

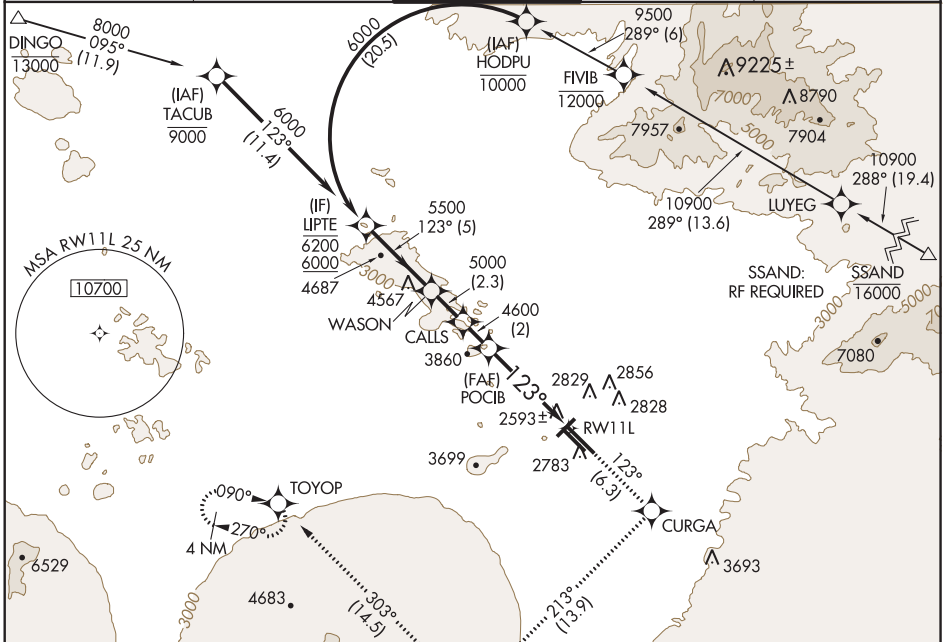
APP CRS	Rwy Idg	10996
123°	TDZE	2599
	Apt Elev	2643

RNAV (RNP) Y RWY 11L

TUCSON INTL (TUS)

	For uncompensated Baro-VNAV systems, procedure NA below -5°C (23°F) or above 43°C (111°F). For inoperative MALS, increase RNP 0.30 visibility to RVR 6000 all Cats. GPS required.	MALS 	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

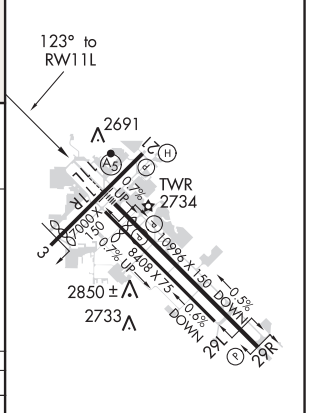


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 2643	D TDZE 2599
-----------	--------------------

LIPTA	WASON	CALLS	POCIB	RWY 11L
6200 6000	5500	5000	4600	
Procedure Turn NA				
GP 3.00°				
TCH 55				
5 NM	2.3 NM	2 NM	6.1 NM	



CATEGORY	A	B	C	D
RNP 0.30 DA	2947/40 348 (400-¾)			

AUTHORIZATION REQUIRED

HIRL Rwy 11L-29R
 MIRL Rwy 3-21 and 11R-29L
 REIL Rwy 21, 29L and 29R

TUCSON, ARIZONA

AL-430 (FAA)

15344

APP CRS	Rwy Idg	6150
030°	TDZE	2572
	Apt Elev	2643

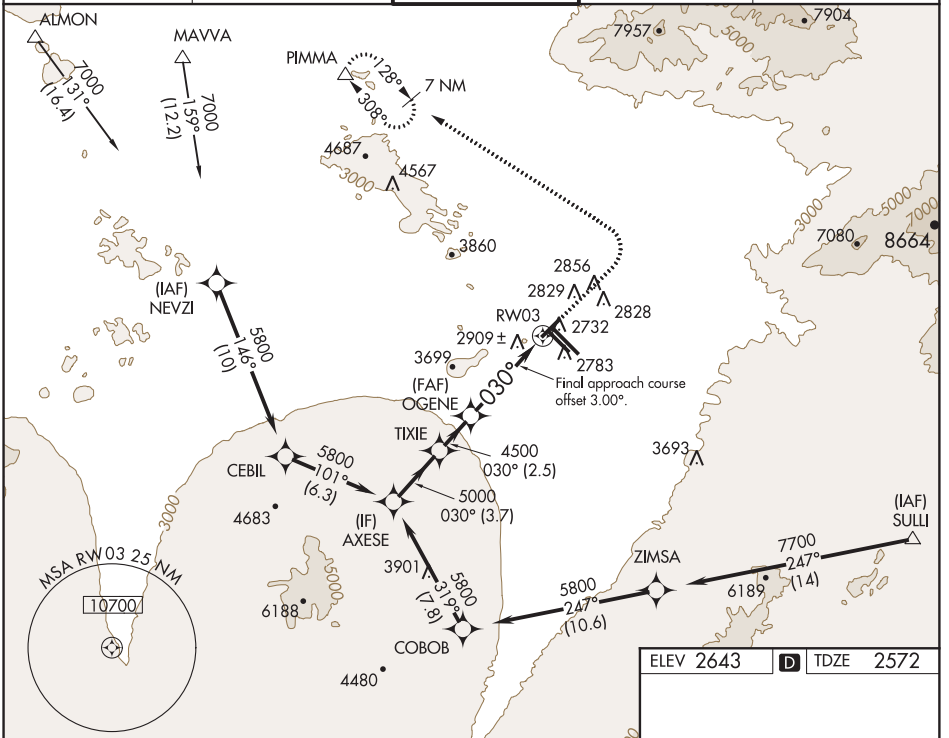
RNAV (GPS) RWY 3

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 3/4 SM NA.

MISSED APPROACH: Climb to 3500 then climbing left turn to 6500 direct PIMMA and hold.

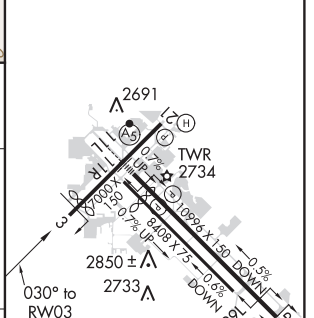
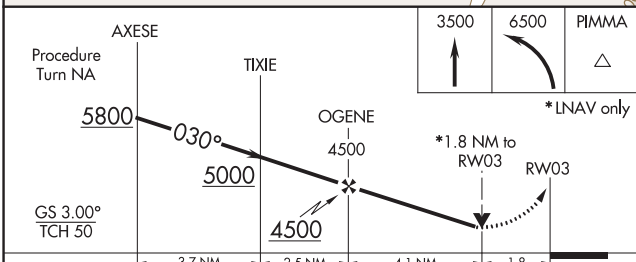
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	---	-------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

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 Rwy 3-21 and 11R-29L
REIL Rwy 21, 29L and 29R

TUCSON, ARIZONA
Amdt 1A 21AUG14

32°07'N-110°56'W

TUCSON INTL (TUS)

RNAV (GPS) RWY 3

APP CRS 123°	Rwy Idg 6998
	TDZE 2605
	Apt Elev 2643

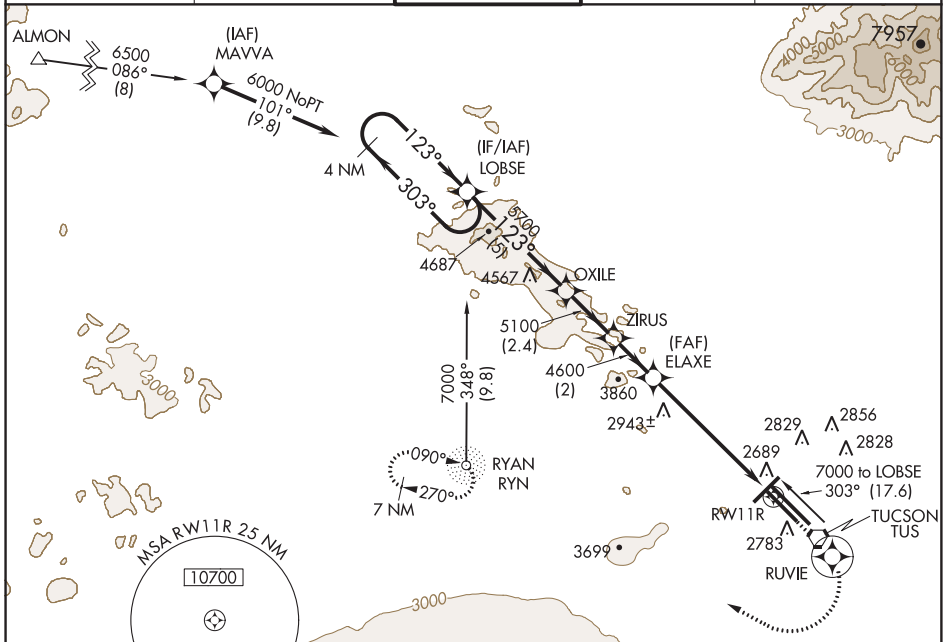
RNAV (GPS) RWY 11R

TUCSON INTL (TUS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (111°F).
⚠ NA DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 via 123° course to RUVIE WP then climbing right turn direct RYN NDB and hold.

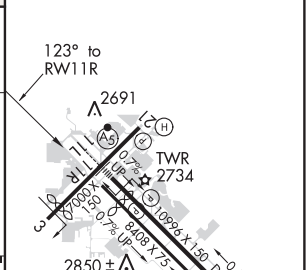
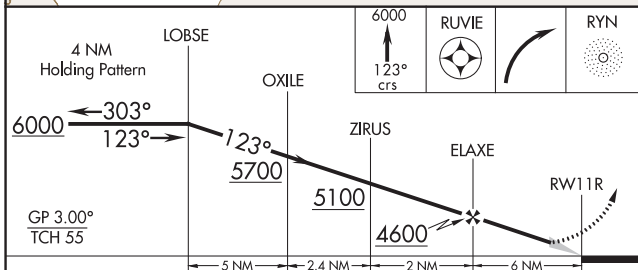
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 2643	D TDZE 2605
-----------	--------------------



RNAV (GPS) RWY 21

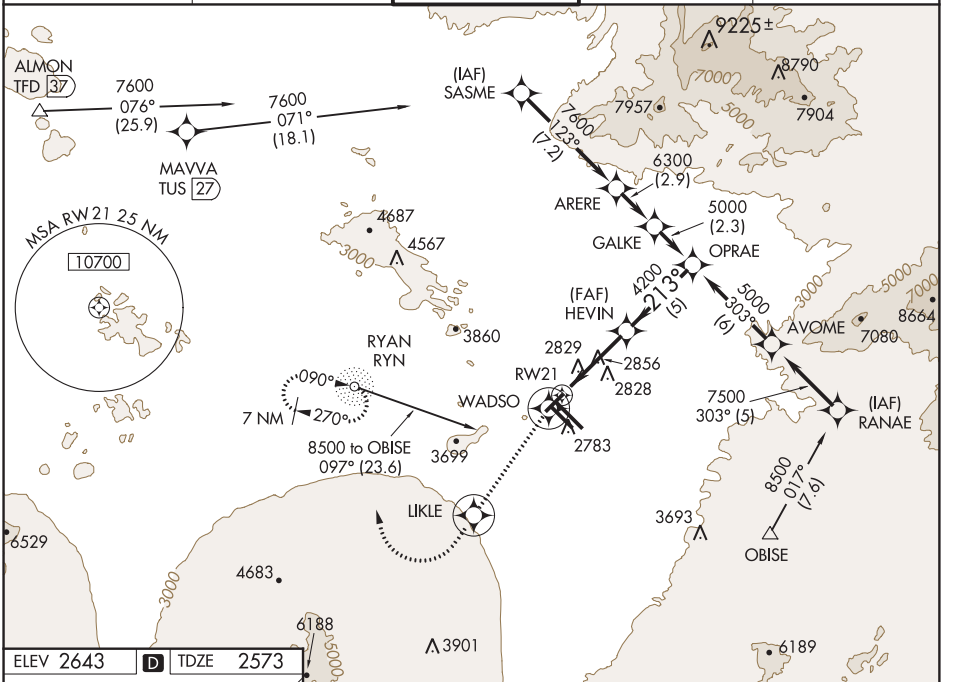
TUCSON INTL (TUS)

APP CRS 213°	Rwy Idg TDZE Apt Elev	6000 2573 2643
------------------------	-----------------------------	---

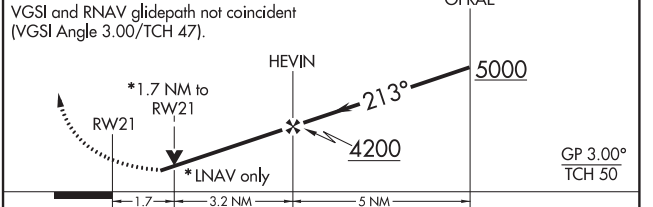
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (111°F).
⚠ NA DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 via 213° course to WADSO WP, then via 203° course to LIKLE WP, then climbing right turn direct RYN NDB and hold.

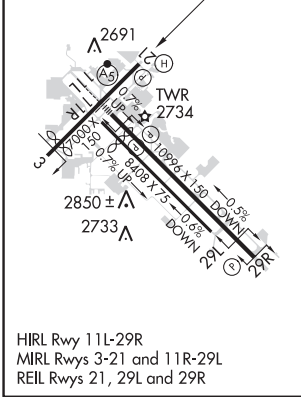
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



ELEV 2643	D	TDZE 2573
-----------	----------	-----------



CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	3141-2		568 (600-2)	
LNAV MDA	3160-1	587 (600-1)	3160-1½ 587 (600-1½)	3160-1¾ 587 (600-1¾)
CIRCLING	3160-1 517 (600-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)



TUCSON, ARIZONA
 Orig-A 31JUL08

32°07'N-110°56'W

TUCSON INTL (TUS) RNAV (GPS) RWY 21

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS	Rwy Idg	8408
303°	TDZE	2629
	Apt Elev	2643

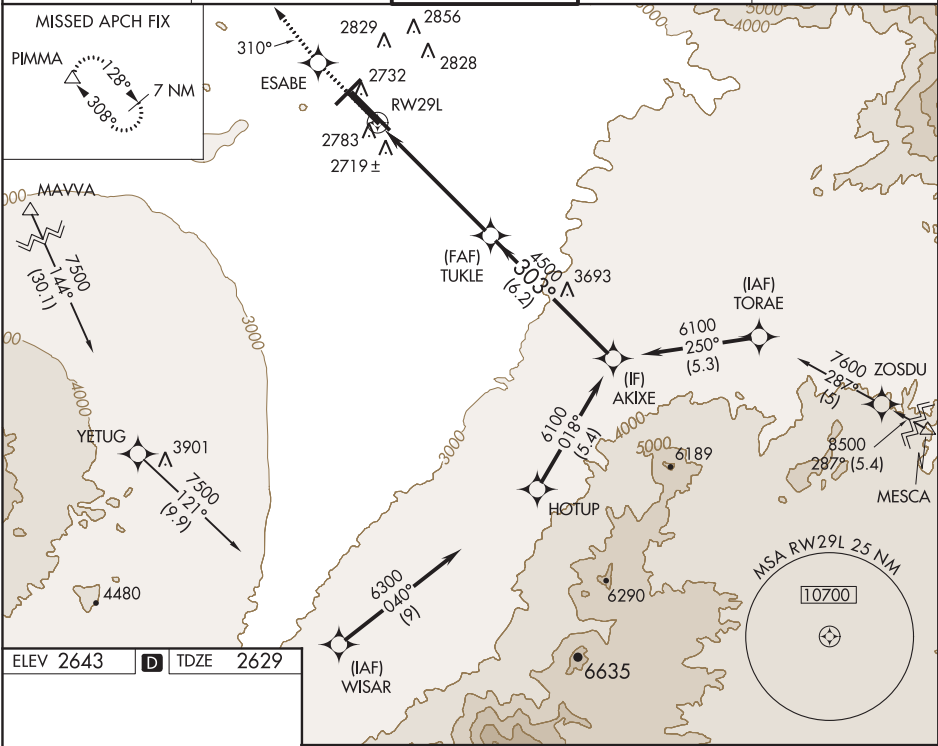
RNAV (GPS) RWY 29L

TUCSON INTL (TUS)

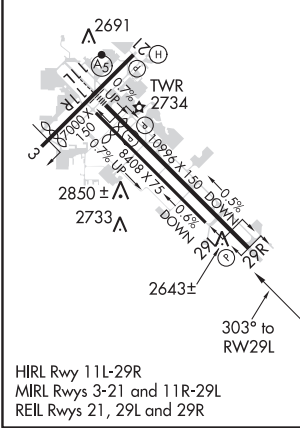
▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 27°C (80°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 6500 direct ESABE then climbing right turn on track 310° to PIMMA and hold.

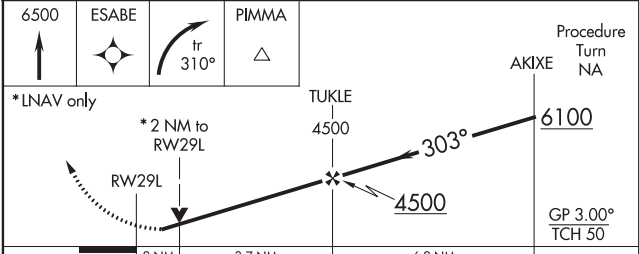
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	---	-------------------------------	---------------------------------



ELEV 2643	D	TDZE 2629
-----------	----------	-----------



HIRL Rwy 11L-29R
MIRL Rwy 3-21 and 11R-29L
REIL Rwy 21, 29L and 29R



CATEGORY	A	B	C	D
LNAV/ VNAV	3040-1 ³ / ₈		411 (400-1 ³ / ₈)	
LNAV MDA	3320-1	691 (700-1)	3320-2	691 (700-2)
CIRCLING	3320-1	677 (700-1)	3320-2 677 (700-2)	3320-2 ¹ / ₄ 677 (700-2 ¹ / ₄)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

TUCSON, ARIZONA

AL-430 (FAA)

15344

WAAS CH 82701 W11A	APP CRS 123°	Rwy Idg 10996 TDZE 2599 Apt Elev 2643
--	------------------------	--

RNAV (GPS) Z RWY 11L

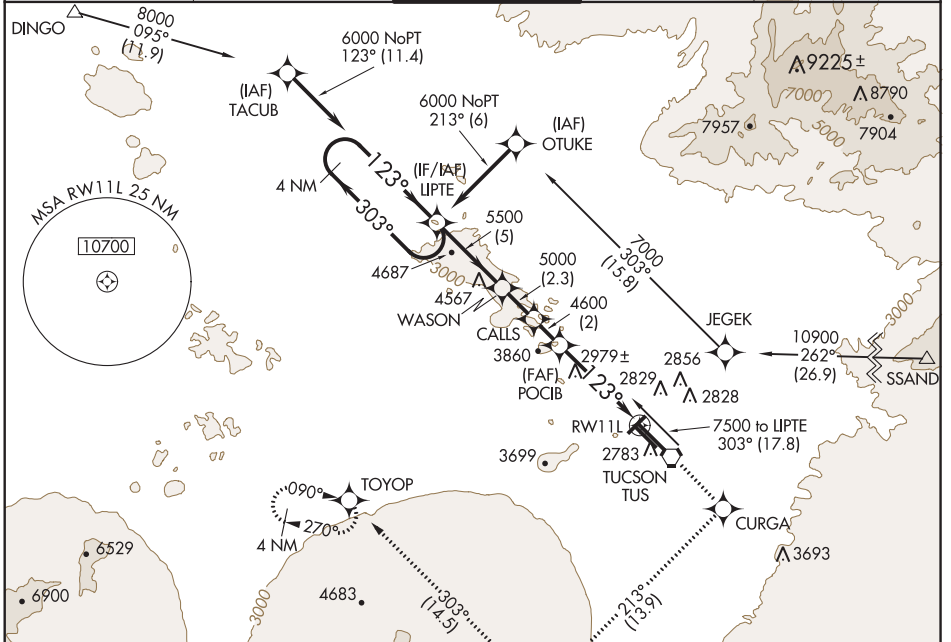
TUCSON INTL (TUS)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (111°F). DME/DME RNP-0.3 NA.
⚠ For inoperative MALSRS, increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV visibility Cat E to RVR 6000, LNAV visibility Cat E to 2 1/4.



MISSED APPROACH: Climb to 6000 (CAT E 8000) via direct CURGA and via 213° track to REBDE and via 303° track to TOYOP and hold.

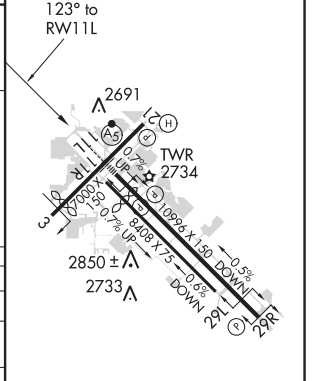
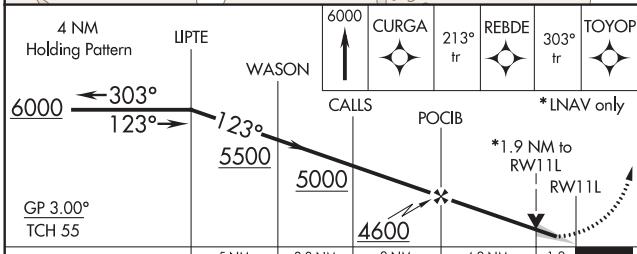
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 2643	D TDZE 2599
-----------	--------------------



CATEGORY	A	B	C	D	E
LPV DA	2849/24		250 (300-1/2)		
LNAV/VNAV DA	2956/40		357 (400-3/4)		
LNAV MDA	3240/24	641 (600-1/2)	3240/60 641 (600-1/4)	3240-1 1/2 641 (600-1/2)	3240-1 3/4 641 (600-1/4)
CIRCLING	3240-1 597 (600-1)		3240-1 1/2 597 (600-1/2)	3240-2 597 (600-2)	3740-3 1097 (1100-3)

HIRL Rwy 11L-29R
MIRL Rwy 3-21 and 11R-29L
REIL Rwy 21, 29L and 29R

TUCSON, ARIZONA
Amdt 1A 31JUL08

32°07'N-110°56'W

RNAV (GPS) Z RWY 11L

TUCSON INTL (TUS)

WAAS CH 86899 W29A	APP CRS 303°	Rwy Idg 10996 TDZE 2643 Apt Elev 2643
--	------------------------	--

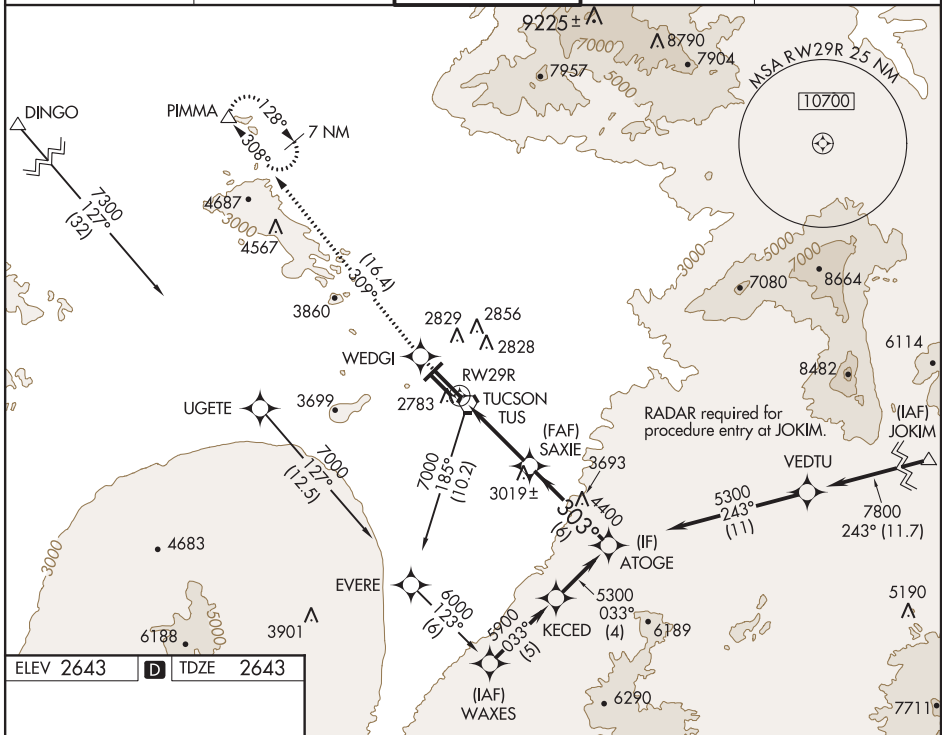
RNAV (GPS) Z RWY 29R

TUCSON INTL (TUS)

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (111°F). DME/DME RNP-0.3 NA.
▲ When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 6800 direct WEDGI and 309° track to PIMMA and hold.

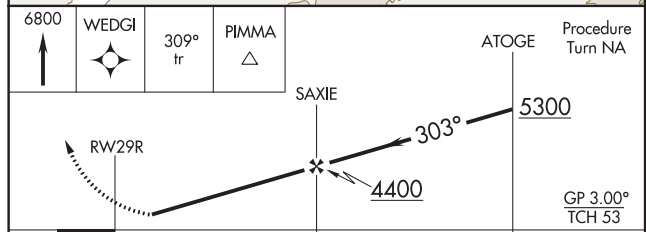
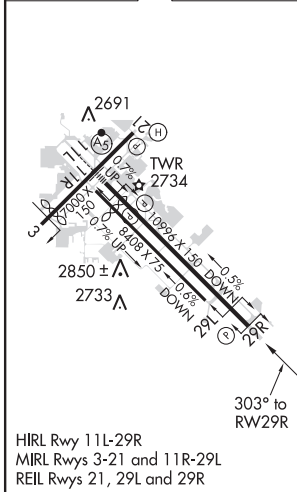
ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 2643	D	TDZE 2643
-----------	----------	-----------



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	3280-1 637 (700-1)	3280-1¾ 637 (700-1¾)	3280-2 637 (700-2)	3280-2 637 (700-2¼)	3280-2¼ 637 (700-2¼)
CIRCLING	3280-1 637 (700-1)	3280-1¾ 637 (700-1¾)	3280-2 637 (700-2)	3280-2 637 (700-2¼)	3740-3 1097 (1100-3)

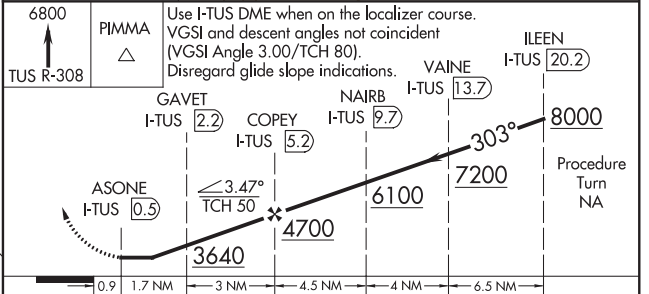
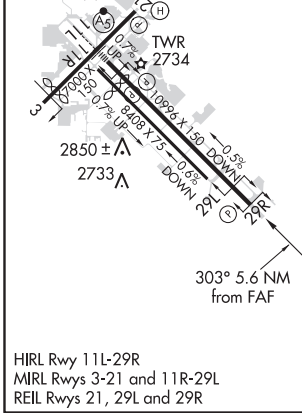
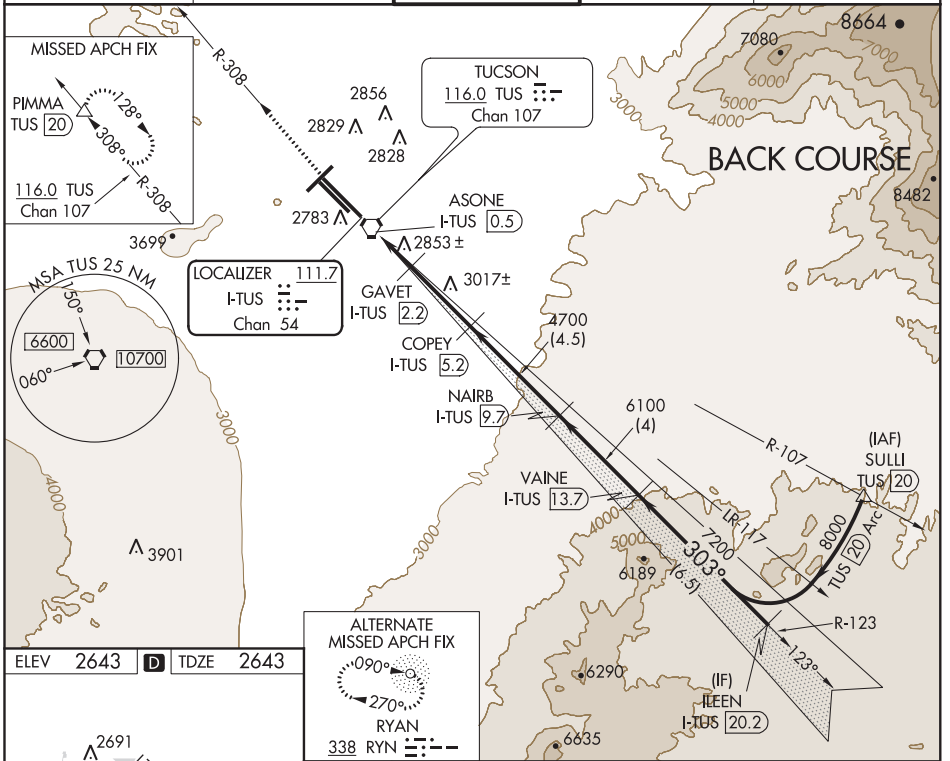
LOC/DME I-TUS 111.7 Chan 54	APP CRS 303°	Rwy Idg TDZE 10996 2643 Apt Elev 2643
---	------------------------	---

LOC/DME BC RWY 29R

TUCSON INTL (TUS)

V Visibility reduction by helicopters NA.
A MISSED APPROACH: Climb to 6800 via TUS VORTAC R-308 to PIMMA/TUS VORTAC 20 DME and hold.

ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



CATEGORY	A	B	C	D	E
S-29R	3120-1	477 (500-1)	3120-1¼ 477 (500-1¼)	3120-1½ 477 (500-1½)	3120-1¾ 477 (500-1¾)
CIRCLING	3120-1 477 (500-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3740-3 1097 (1100-3)

TUCSON, ARIZONA
Amdt 8 30AUG07

32°07'N-110°56'W

TUCSON INTL (TUS) LOC/DME BC RWY 29R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC TUS 116.0 Chan 107	APP CRS 303°	Rwy Idg 10996 TDZE 2643 Apt Elev 2643
---	------------------------	--

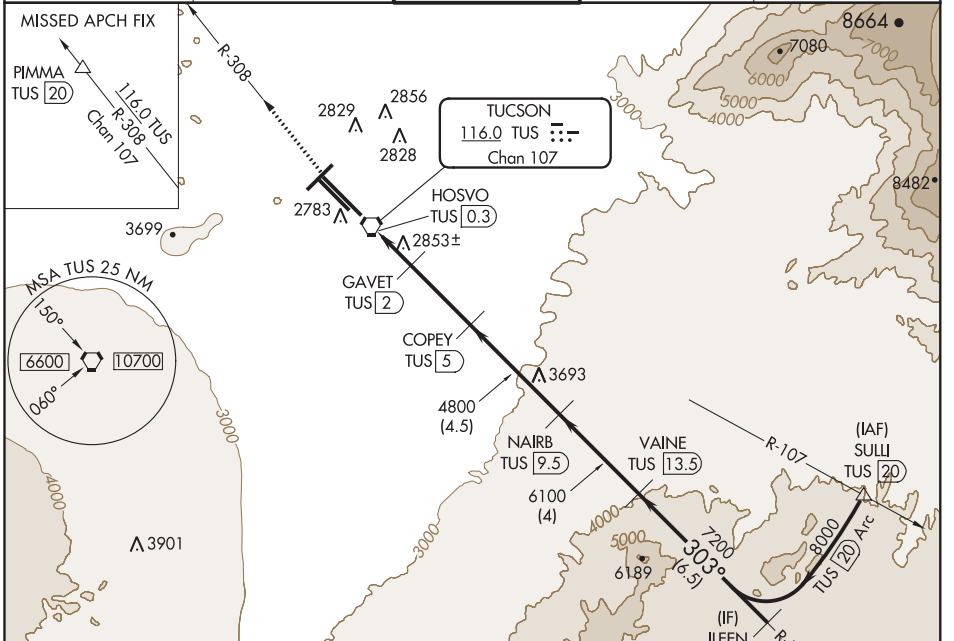
VOR/DME or TACAN RWY 29R

TUCSON INTL (TUS)

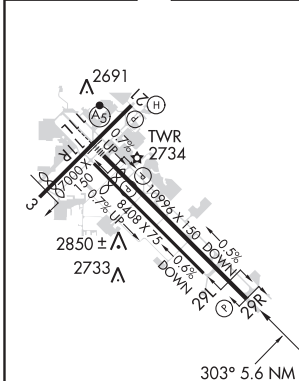
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6500 to PIMMA/TUS 20 DME on TUS R-308.

ATIS 123.8 279.65	TUCSON APP CON 119.4 318.1	TUCSON TOWER 118.3 257.8	GND CON 124.4 348.6	CLNC DEL 126.65 326.2
-----------------------------	--------------------------------------	------------------------------------	-------------------------------	---------------------------------



ELEV 2643	D	TDZE 2643
------------------	----------	------------------



HIRL Rwy 11L-29R
MIRL Rwy 3-21 and 11R-29L
REIL Rwy 21, 29L and 29R

6500 TUS R-308	PIMMA △	VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 80).	VAINE TUS 13.5	ILEEN TUS 20
TUS VORTAC	GAVET TUS 2	COPEY TUS 5	VAINE TUS 13.5	ILEEN TUS 20
HOSVO TUS 0.3	3.55° TCH 55	4800	6100	7200
0.6	0.3	1.7 NM	3 NM	4.5 NM
Procedure Turn NA				

CATEGORY	A	B	C	D	E
S-29R	3120-1	477 (500-1)	3120-1¼ 477 (500-1¼)	3120-1½ 477 (500-1½)	3120-1¾ 477 (500-1¾)
CIRCLING	3120-1 477 (500-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3800-3 1157 (1200-3)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

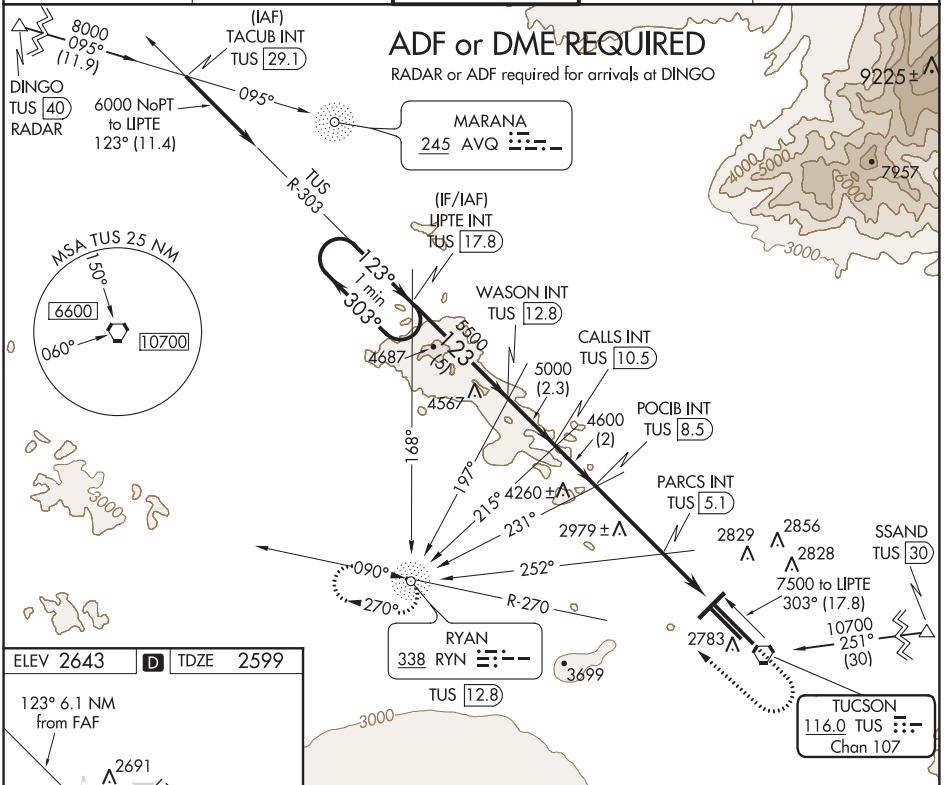
VORTAC TUS 116.0 Chan 107	APP CRS 123°	Rwy Idg 10996 TDZE 2599 Apt Elev 2643
---	------------------------	--

VOR or TACAN RWY 11L

TUCSON INTL (TUS)

<p>▼ For inoperative MALSR, increase S-11L Cats D and E visibility to RVR 6000. ▲ ADF or DME required.</p>	<p>MALSR </p>	<p>MISSED APPROACH: Climb to 4000 then climbing right turn to 6000 (Cat E 8000) via heading 300° and TUS R-270 to RYN NDB/TUS 12.8 DME and hold.</p>
--	-------------------	--

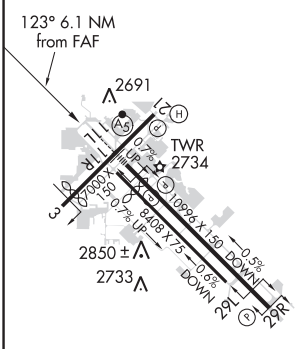
<p>ATIS 123.8 279.65</p>	<p>TUCSON APP CON 119.4 318.1</p>	<p>TUCSON TOWER 118.3 257.8</p>	<p>GND CON 124.4 348.6</p>	<p>CLNC DEL 126.65 326.2</p>
-------------------------------------	--	--	---------------------------------------	---



SW-4, 10 NOV 2016 to 05 JAN 2017

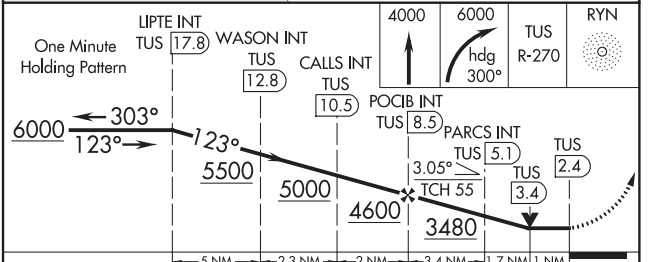
SW-4, 10 NOV 2016 to 05 JAN 2017

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	2960/24	361 (400-½)		2960/50	361 (400-1)
CIRCLING	3100-1 457 (500-1)	3220-1 577 (600-1)	3220-1½ 577 (600-1½)	3220-2 577 (600-2)	3740-3 1097 (1100-3)

TUCSON, ARIZONA
Amdt 1A 31JUL08

32°07'N-110°56'W

VOR or TACAN RWY 11L

(BURRO4.BURRO) 16203

BURRO FOUR DEPARTURE (RNAV)

SL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

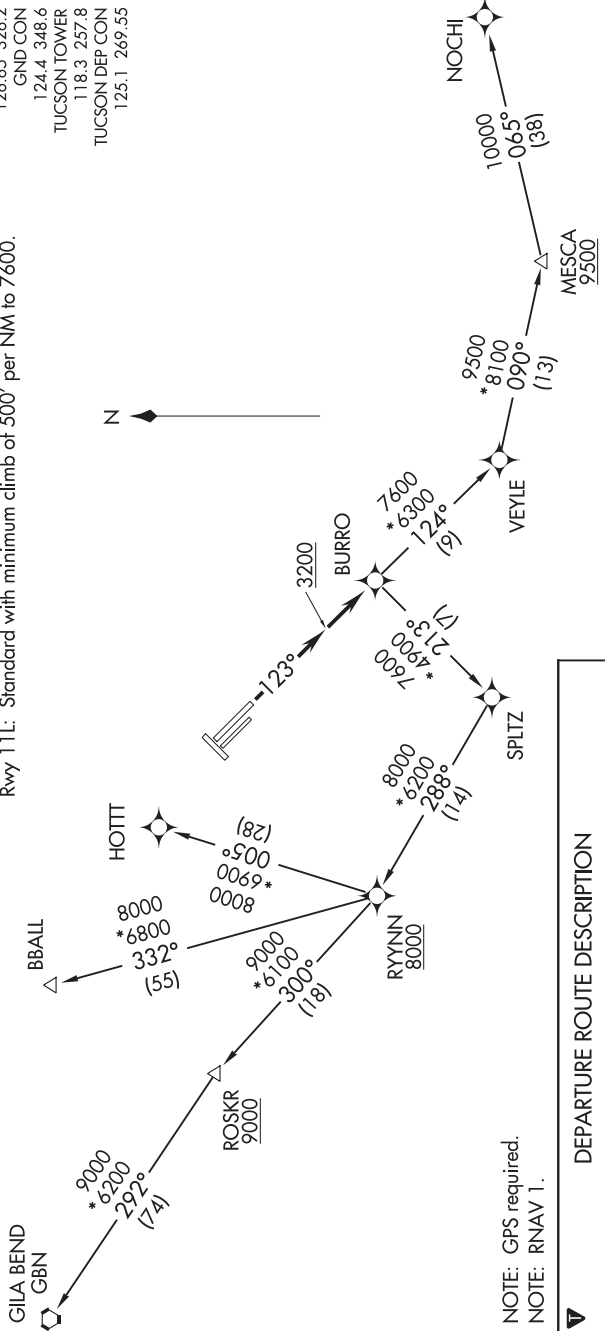
SW-4, 10 NOV 2016 to 05 JAN 2017

TOP ALTITUDE:
17000

TAKEOFF MINIMUMS

Rwys 3, 11R, 21, 29L, 29R: NA - ATC.
Rwy 11L: Standard with minimum climb of 500' per NM to 7600.

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



NOTE: GPS required.
NOTE: RNAV 1.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11L: Climb heading 123° to 3200 MSL, then direct BURRO, thence...
...via (transition) maintain 17000, expect filed altitude 10 minutes after departure.

- BBALL TRANSITION (BURRO4.BBALL)
- GILA BEND TRANSITION (BURRO4.GBN)
- HOTT TRANSITION (BURRO4.HOTT)
- NOCHI TRANSITION (BURRO4.NOCHI)

TAKEOFF OBSTACLE NOTES

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.

NOTE: Chart not to scale.

(BURRO4.BURRO) 21JUL16

TUCSON, ARIZONA
TUCSON INTL (TUS)

SW-4, 10 NOV 2016 to 05 JAN 2017



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.

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.

WLDKT THREE DEPARTURE (RNAV)

SL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA

7 10:11 AM 10 NOV 2016 10:05 JAN 2017

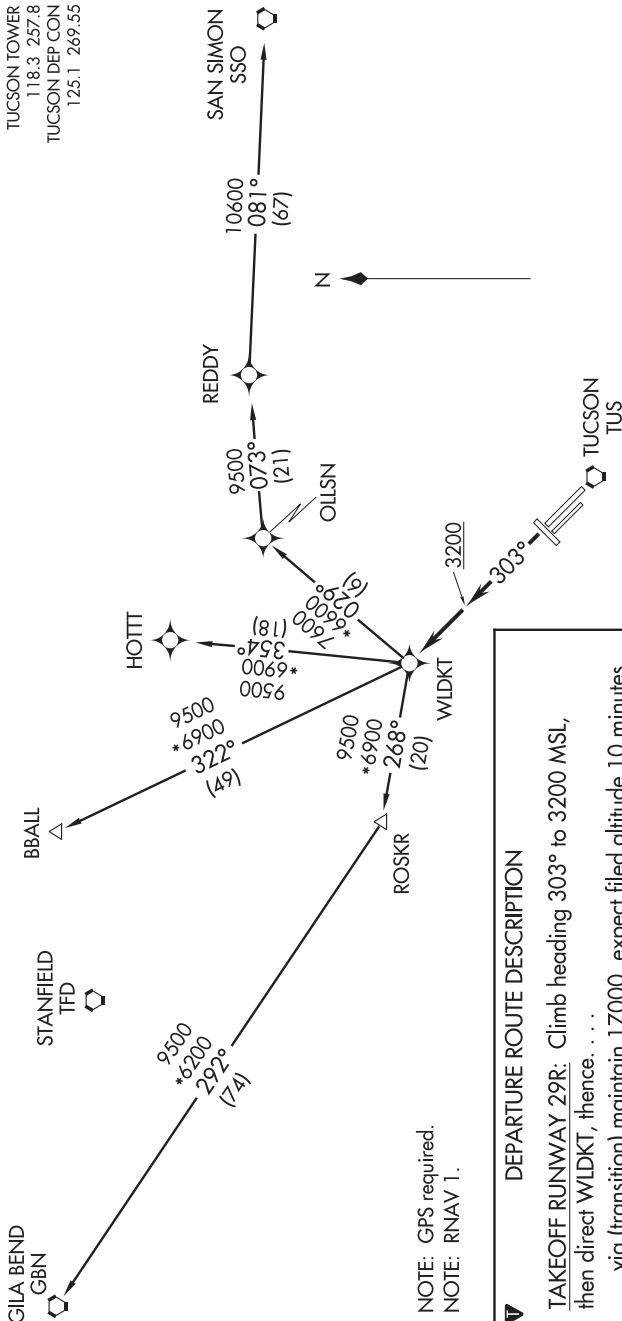
TOP ALTITUDE:
17000

WILLIE
IWA

TAKEOFF MINIMUMS

Rwys 3, 11L, 11R, 21, 29L: NA - ATC.
Rwy 29R: Standard with minimum climb of 500' per NM to 9500.

ATIS
123.8 279.65
CLNC DEL
126.65 326.2
GND CON
124.4 348.6
TUCSON TOWER
118.3 257.8
TUCSON DEPCON
125.1 269.55



NOTE: GPS required.
NOTE: RNAV 1.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 29R: Climb heading 303° to 3200 MSL, then direct WLDKT, thence . . .
. . . via (transition) maintain 17000, expect filed altitude 10 minutes after departure.

- BBALL TRANSITION (WLDKT3:BBALL)
- GILA BEND TRANSITION (WLDKT3:GBN)
- HOTT TRANSITION (WLDKT3:HOTT)
- SAN SIMON TRANSITION (WLDKT3:SSO)

TAKEOFF OBSTACLE NOTES

Rwy 29R: Aircraft on ramp 2779' from DER, 1056' left of centerline, up to 30' AGL/ 2680' MSL.

NOTE: Chart not to scale.

VERNAL, UTAH

AL-792 (FAA)

15204

WAAS CH 50423 W34A	APP CRS 340°	Rwy Idg TDZE Apt Elev	6201 5265 5278
--	------------------------	-----------------------------	---

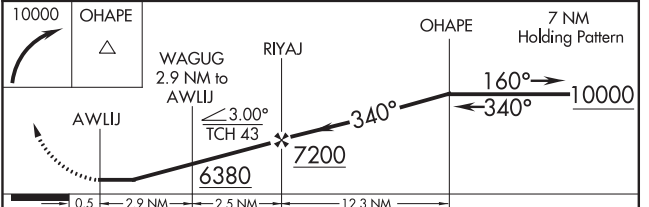
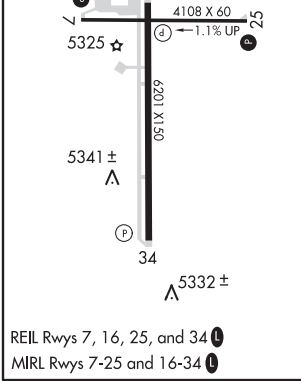
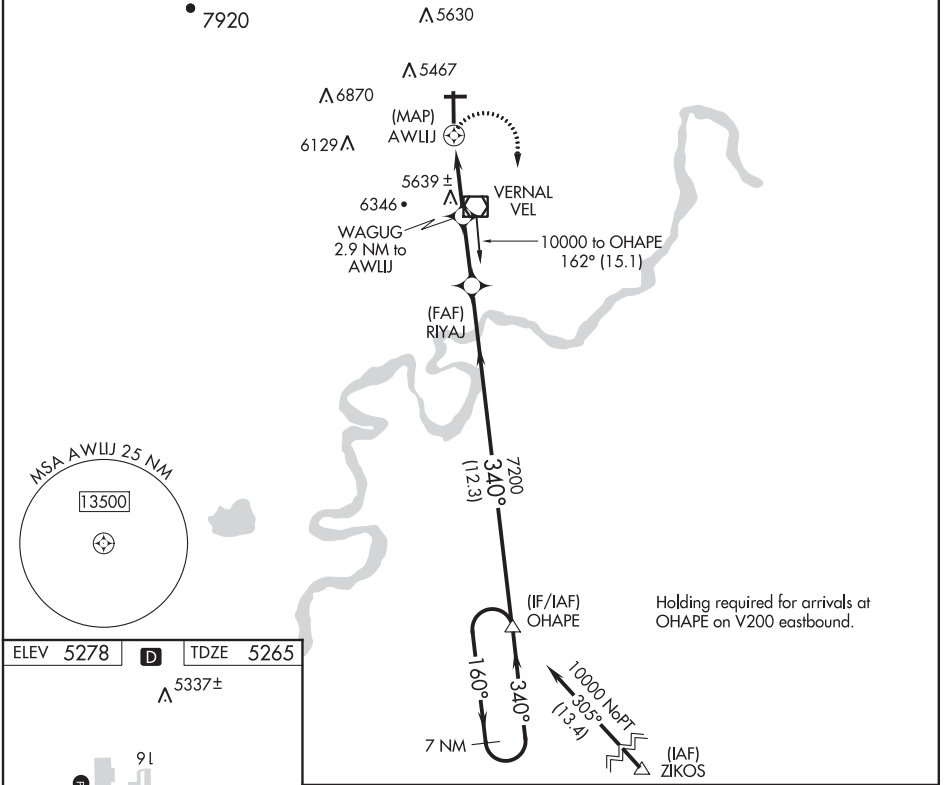
RNAV (GPS) RWY 34

VERNAL RGNL (VEL)

NA DME/DME RNP-0.3 NA. Night landing: Rwy 7 NA. Helicopter visibility reduction below 3/4 SM NA. *Missed approach requires a minimum climb of 420 feet per NM to 6800.

MISSED APPROACH: Climbing right turn to 10000 direct OHAPE and hold.

ASOS 135.175	CEDAR CITY RADIO 122.35	UNICOM 122.7 (CTAF)
------------------------	-----------------------------------	-------------------------------



CATEGORY		A	B	C	D
LP	MDA	5980-1	715 (800-1)	5980-2	715 (800-2)
*LNAV	MDA	5980-1	715 (800-1)	5980-2	715 (800-2)
LNAV	MDA	6300-1 1/4 1035 (1100-1 1/4)	6300-1 1/2 1035 (1100-1 1/2)	6300-3	1035 (1100-3)
CIRCLING		6300-1 1/4 1022 (1100-1 1/4)	6300-1 1/2 1022 (1100-1 1/2)	6300-3	1022 (1100-3)

VERNAL, UTAH
Amdt 1C 23JUL15

40° 26'N-109° 31'W

RNAV (GPS) RWY 34

VERNAL RGNL (VEL)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VOR/DME VEL 108.2 Chan 19	APP CRS 331°	Rwy Idg TDZE Apt Elev 6201 5265 5279
--	------------------------	--

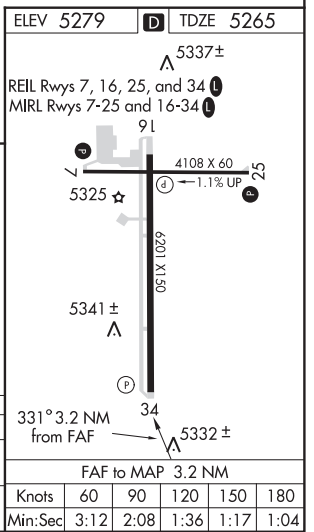
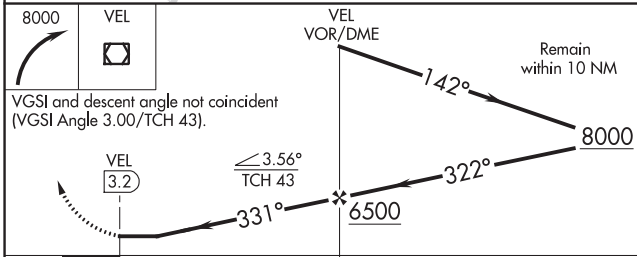
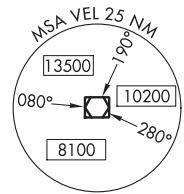
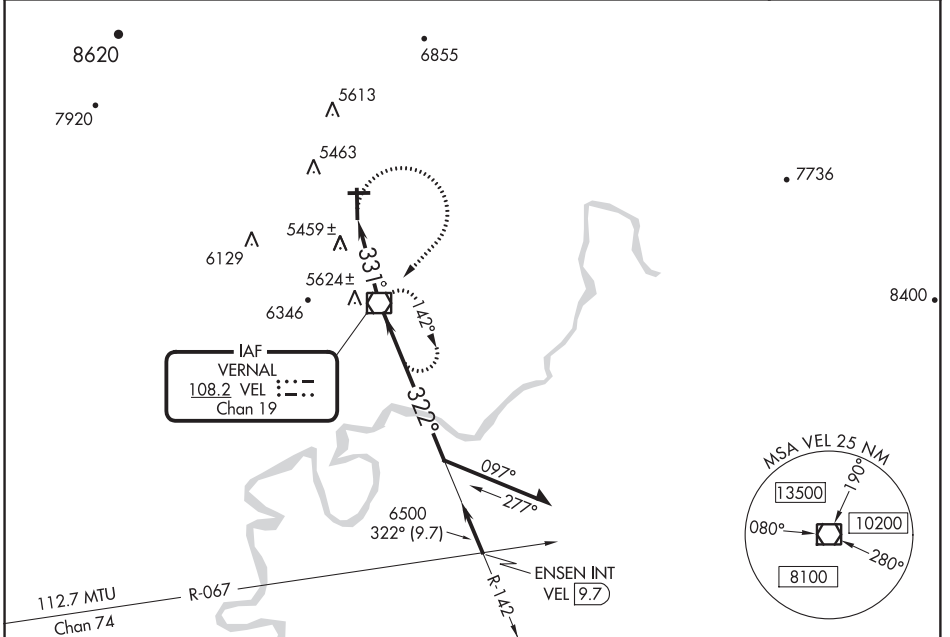
VOR RWY 34

VERNAL RGNL (VEL)

Night landing: Rwy 7 NA. Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climbing right turn to 8000 direct VEL VOR/DME and hold.

ASOS 135.175	CEDAR CITY RADIO 122.35	UNICOM 122.7 (CTAF) 1
------------------------	-----------------------------------	--



CATEGORY	A	B	C	D
S-34	5780-1	515 (600-1)	5780-1½ 515 (600-1½)	5780-1¾ 515 (600-1¾)
CIRCLING	5780-1	501 (600-1)	5900-1¾ 621 (700-1¾)	5940-2 661 (700-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

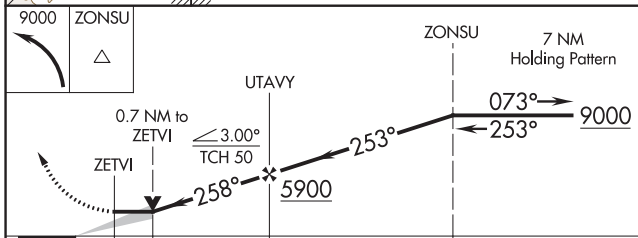
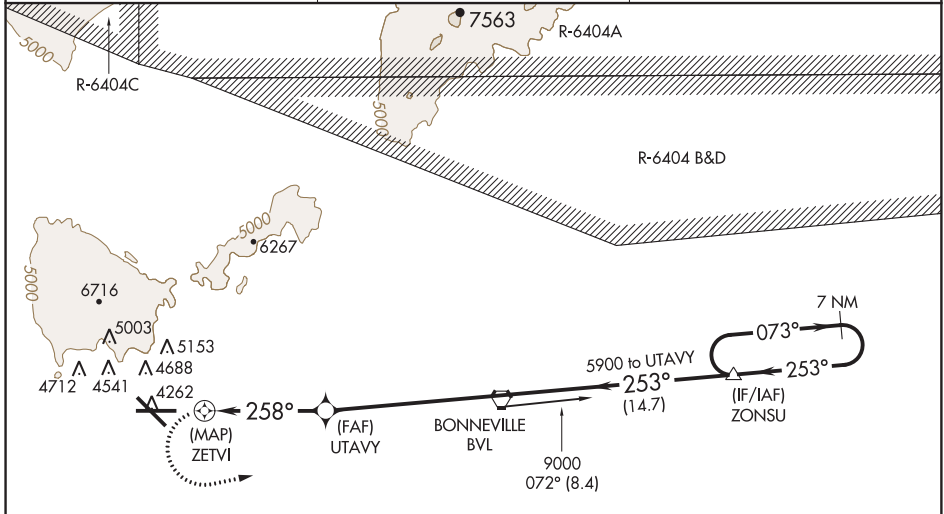
APP CRS	Rwy Idg	10002
258°	TDZE	4228
	Apt Elev	4237

RNAV (GPS) RWY 26

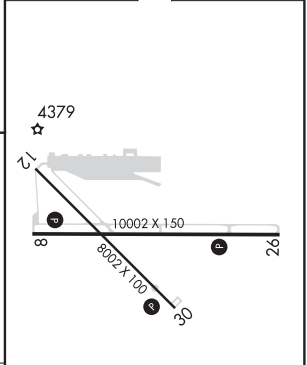
WENDOVER (ENV)

NA -11°C/12°F	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-3 120.55	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF)
-------------------------	-----------------------------------	-------------------------------



ELEV 4237	TDZE 4228
-----------	-----------



CATEGORY	A	B	C	D	E
LNVA MDA	4740-1	512 (600-1)	4740-1 ³ / ₈	512 (600-1 ³ / ₈)	
CIRCLING	4740-1	503 (600-1)	4860-1 ¹ / ₂ 623 (700-1 ¹ / ₂)	5080-2 ³ / ₄ 843 (900-2 ³ / ₄)	5700-3 1463 (1500-3)

REIL Rwy 8, 12 and 30

MIRL Rwy 8-26 and 12-30

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 083°	Rwy Idg TDZE Apt Elev	N/A N/A 4237
------------------------	-----------------------------	---

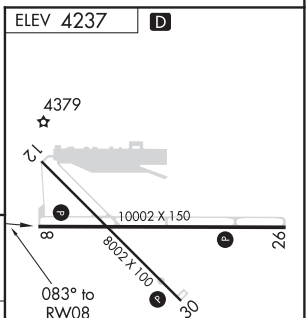
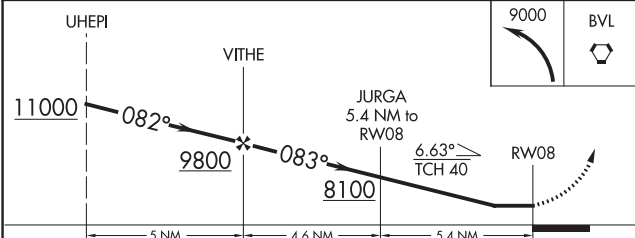
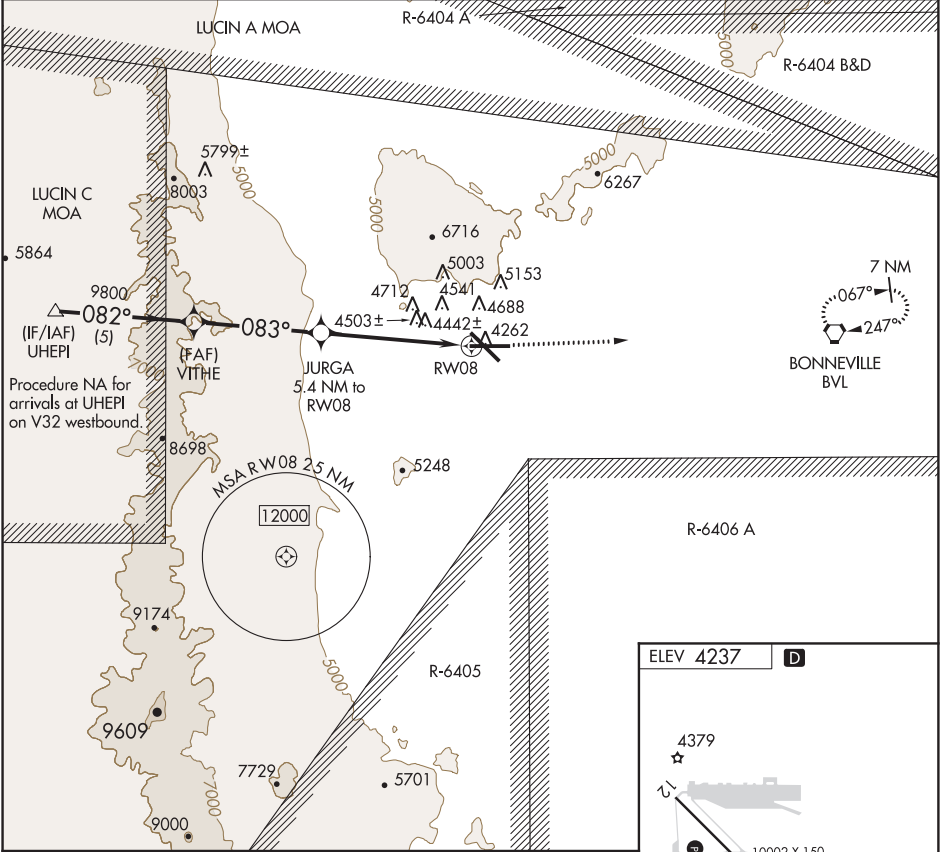
RNAV (GPS)-A

WENDOVER (ENV)

⚠ Circling NA north of Rwy 8-26.
⚠ DME/DME RNP-0.3 NA.
⚠ -11°C/12°F

MISSED APPROACH: Climbing left turn to 9000 direct BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3 120.55	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) Ⓛ
-------------------------	-----------------------------------	--



CATEGORY	A	B	C	D	E
Ⓛ CIRCLING	6100-1¼ 1863 (1900-1¼)	6100-1½ 1863 (1900-1½)	6100-3	1863	1900-3

REIL Rws 8, 12 and 30 **Ⓛ**
 MIRL Rws 8-26 and 12-30 **Ⓛ**

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

APP CRS 078°	Rwy Idg TDZE Apt Elev	N/A N/A 4237
------------------------	-----------------------------	---------------------------

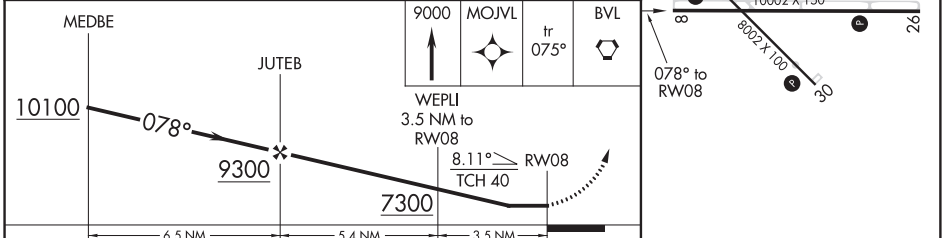
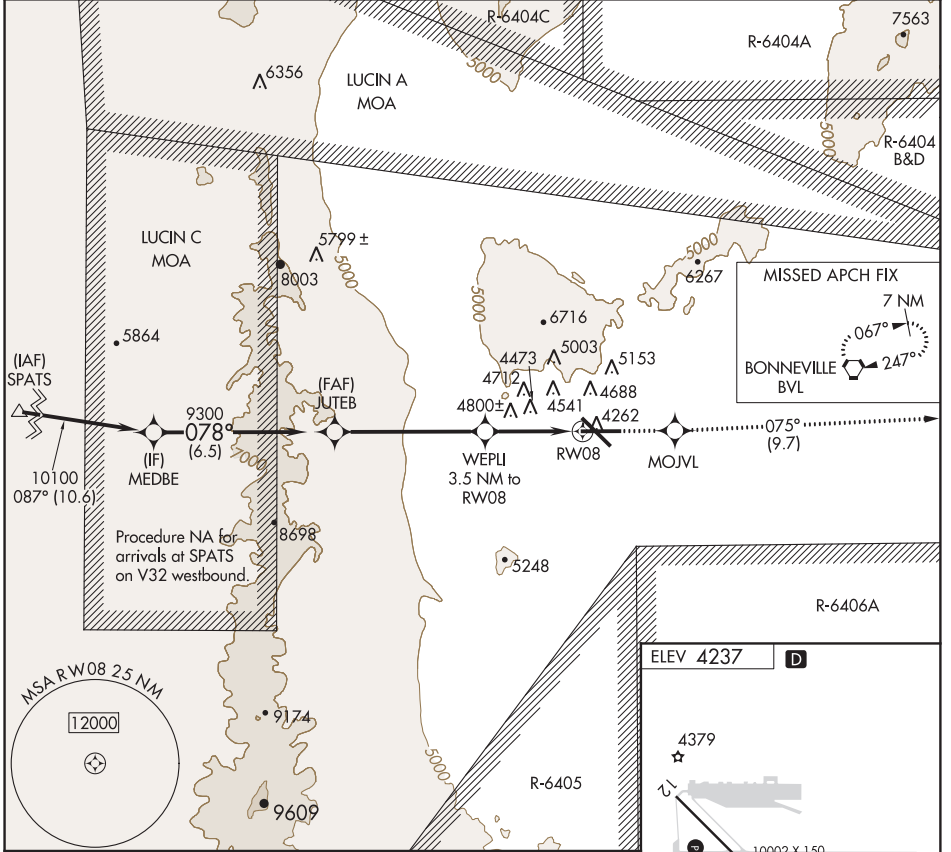
RNAV (GPS)-C

WENDOVER (ENV)

⚠ Circling NA north of Rwy 8-26.
⚠ DME/DME RNP-0.3 NA.
❄ -11°C/12°F

MISSED APPROACH: Climb to 9000 direct MOJVL and on track 075° to BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3 120.55	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF)
-------------------------	-----------------------------------	-------------------------------



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 and 30 **Ⓛ**
MIRL Rwys 8-26 and 12-30 **Ⓛ**

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WENDOVER, UTAH

AL-445 (FAA)

16091

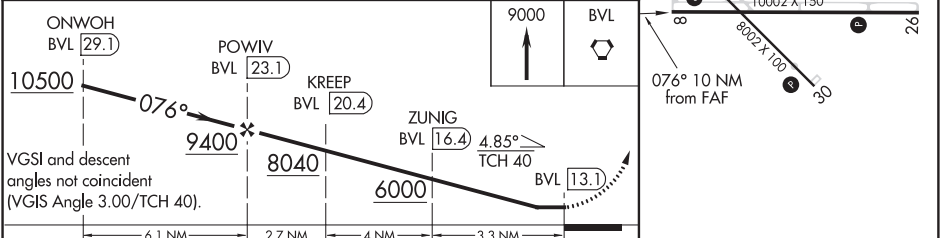
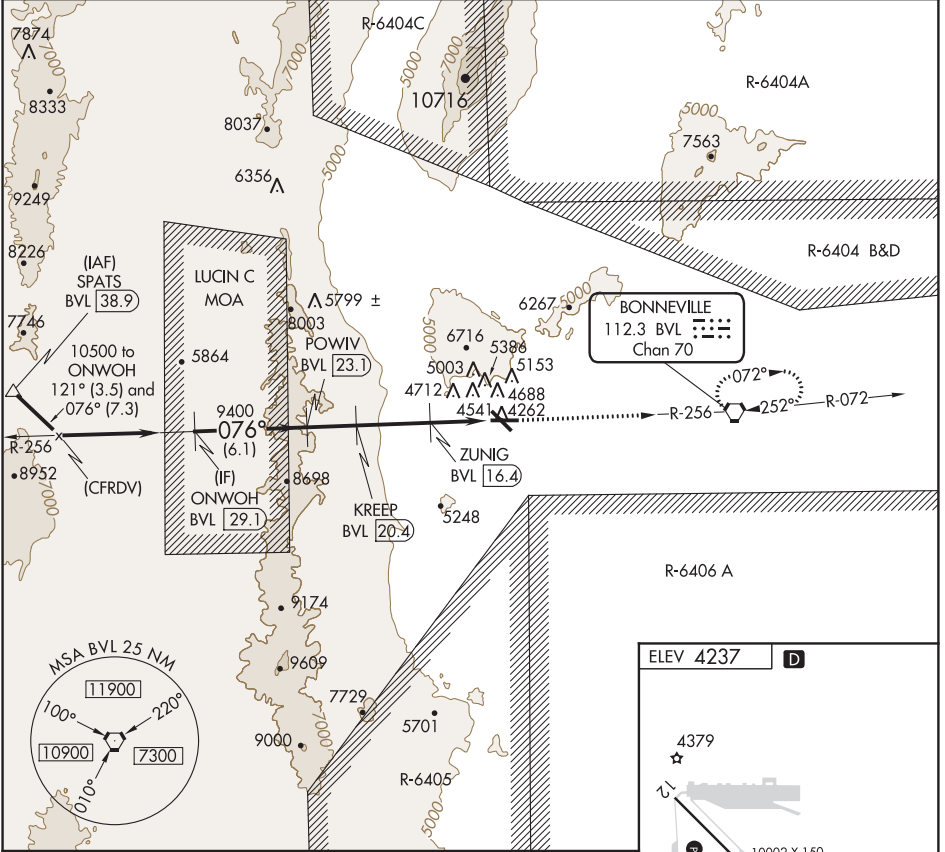
VORTAC BVL 112.3 Chan 70	APP CRS 076°	Rwy Idg TDZE Apt Elev N/A N/A 4237
--	------------------------	--

VOR/DME-B
WENDOVER (EN.V)

A Circling NA north of Rwy 8-26.
B -11°C/12°F

MISSED APPROACH: Climb to 9000 direct BVL VORTAC and hold, continue climb-in-hold to 9000.

AWOS-3 120.55	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF)
-------------------------	-----------------------------------	-------------------------------



CATEGORY	A	B	C	D	E	REIL Rwy 8, 12 and 30
CIRCLING	5500-1¼ 1263 (1300-1¼)	5500-1½ 1263 (1300-1½)	5500-3 1263 (1300-3)	5700-3	1463 (1500-3)	MIRL Rwy 8-26 and 12-30

WENDOVER, UTAH
Amdt 2 31MAR16

40°43'N-114°02'W

WENDOVER (EN.V)
VOR/DME-B

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VORTAC BVL 112.3 Chan 70	APP CRS 256°	Rwy Idg TDZE Apt Elev 10002 4227 4237
--	------------------------	---

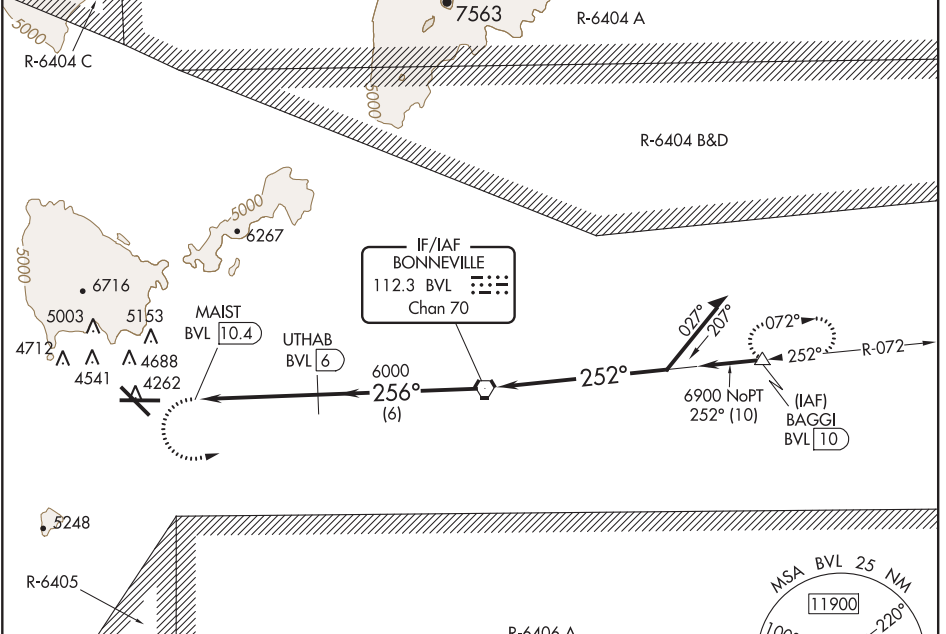
VOR/DME or TACAN RWY 26

WENDOVER (ENV)

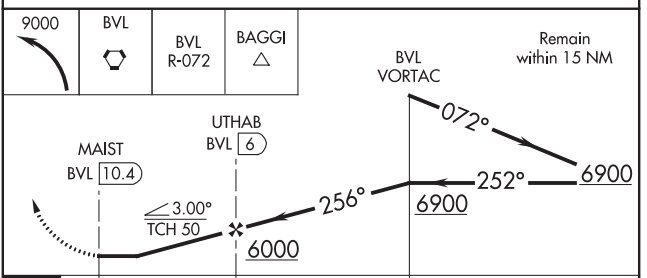
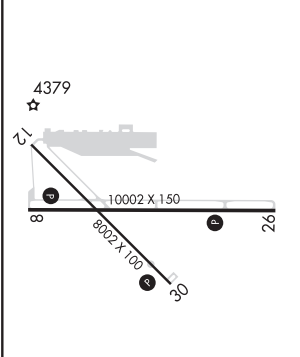
⚠ Circling NA north of Rwy 8-26.
❄ -11°C/12°F

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-3 120.55	CEDAR CITY RADIO 122.1R	UNICOM 122.8 (CTAF) 📻
-------------------------	-----------------------------------	--



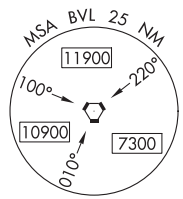
ELEV 4237	D	TDZE 4227
-----------	----------	-----------



CATEGORY	A	B	C	D	E
S-26	4680-1¼	453 (500-1¼)	4680-1¾ 453 (500-1¾)		
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)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

AL-445 (FAA)

WENDOVER (ENV)
WENDOVER, UTAH

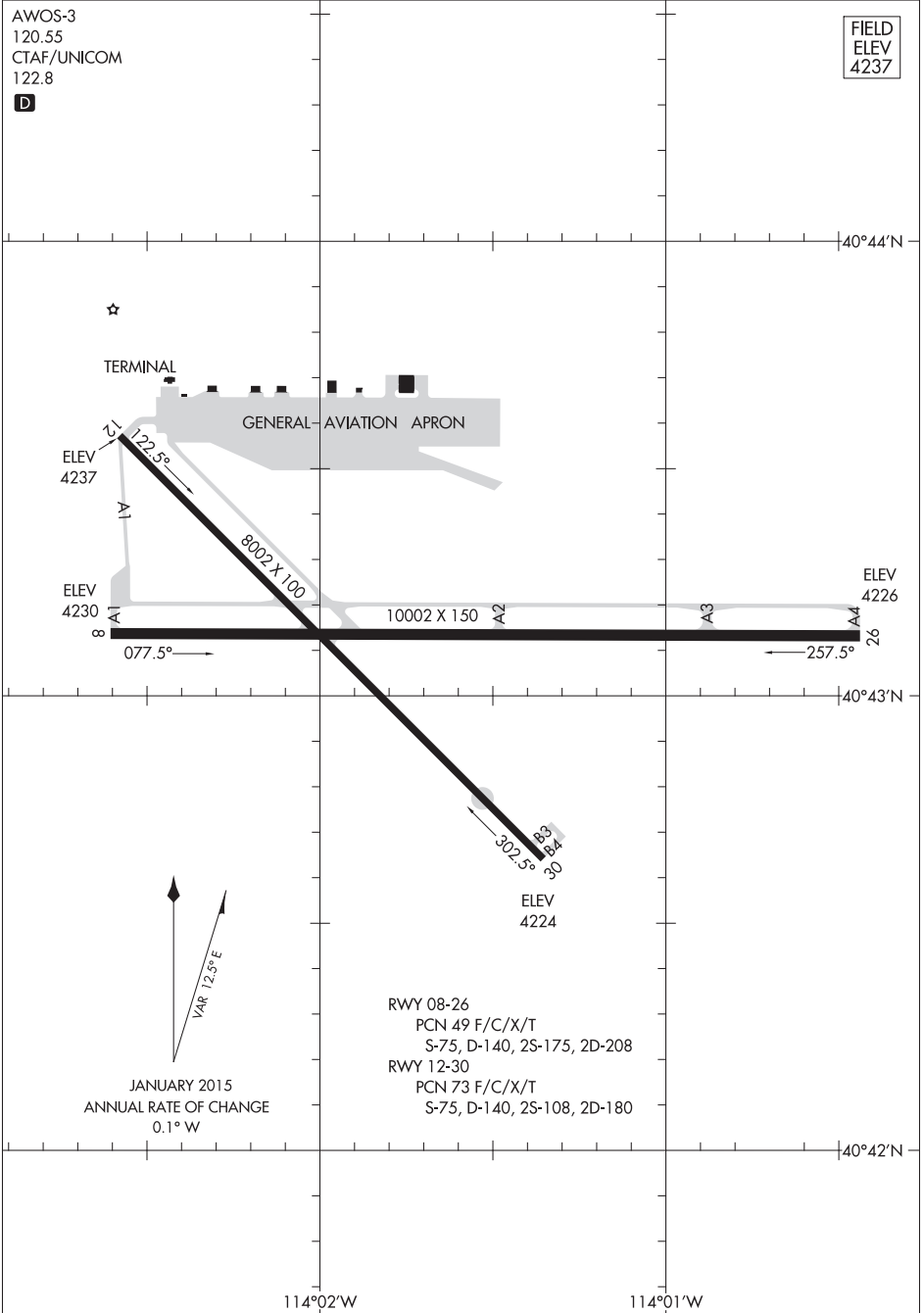
AWOS-3
120.55
CTAF/UNICOM
122.8

FIELD
ELEV
4237



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM

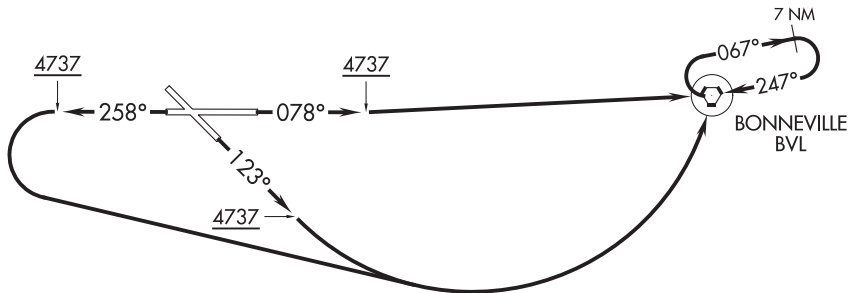
16315

WENDOVER, UTAH
WENDOVER (ENV)

WENDOVER ONE DEPARTURE (RNAV)

CEDAR CITY RADIO
122.1R
UNICOM
122.8 (CTAF)
AWOS-3
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.

TAKEOFF OBSTACLES 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.

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.

WENDOVER ONE DEPARTURE (RNAV)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WILLCOX, ARIZONA

AL-85 (FAA)

14345

APP CRS	Rwy Idg	6095
034°	TDZE	4186
	Apt Elev	4187

RNAV (GPS) RWY 3

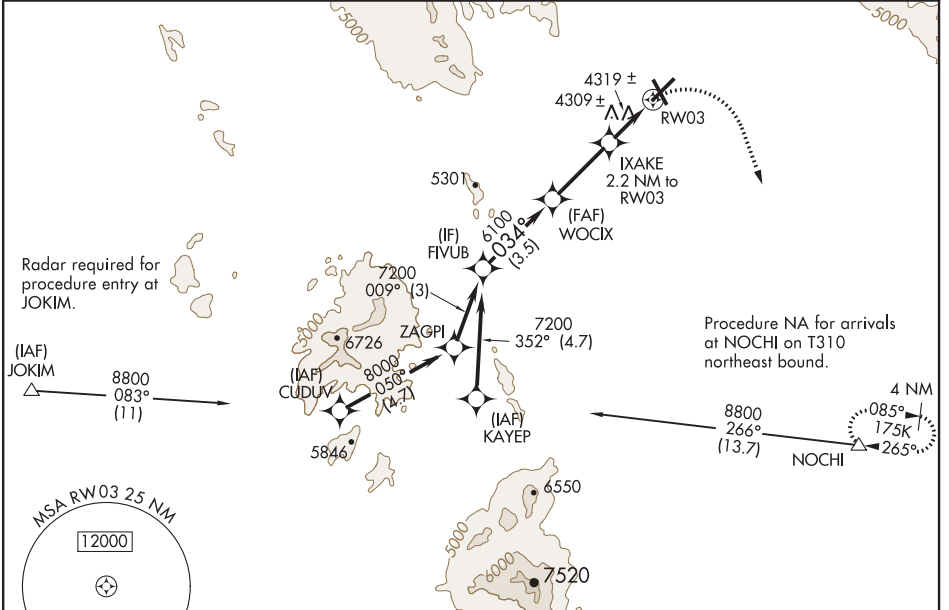
COCHISE COUNTY (P33)

NA 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. When authorized by ATC, continue climb-in-hold to MEA for route of flight.

ALBUQUERQUE CENTER **134.45 327.15**

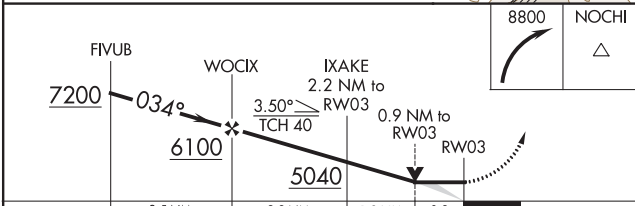
UNICOM **122.8 (CTAF) 0**



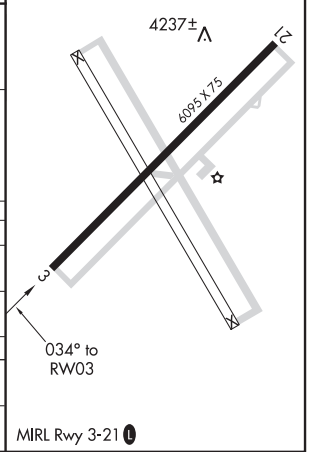
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4187	TDZE 4186
-----------	-----------



CATEGORY	A	B	C	D
LNVA MDA	4560-1	374 (400-1)		NA
CIRCLING	4600-1 413 (500-1)	4640-1 453 (500-1)		NA
DOUGLAS BISBEE ALTIMETER SETTING MINIMUMS				
LNVA MDA	4680-1	494 (500-1)		NA
CIRCLING	4720-1	533 (600-1)		NA



WILLCOX, ARIZONA
Amdt 1B 11DEC14

32°15'N-109°54'W

COCHISE COUNTY (P33)

RNAV (GPS) RWY 3

WAAS CH 77618 W21A	APP CRS 214°	Rwy Idg TDZE Apt Elev	6095 4187 4187
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 21

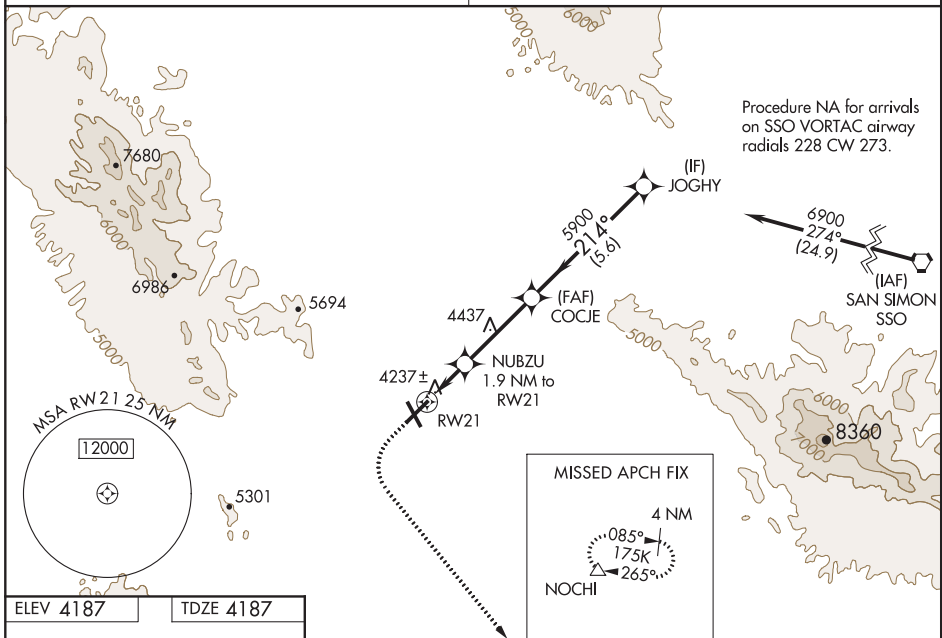
COCHISE COUNTY (P33)

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 VNAV/LNAV visibility all Cats 3/8 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
134.45 327.15

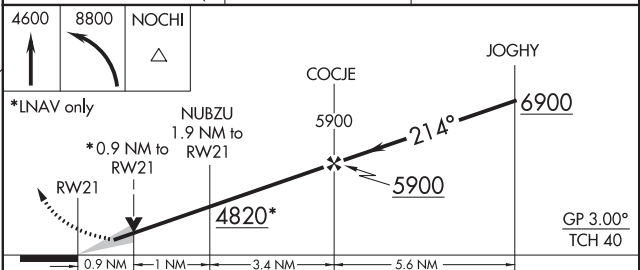
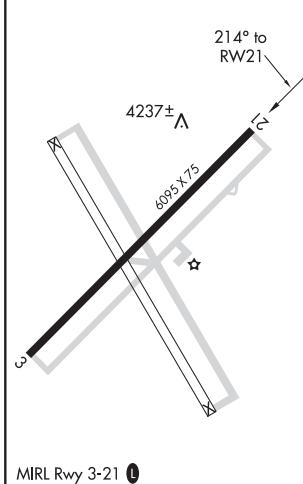
UNICOM
122.8 (CTAF)



SW-4, 10 NOV 2016 to 05 JAN 2017

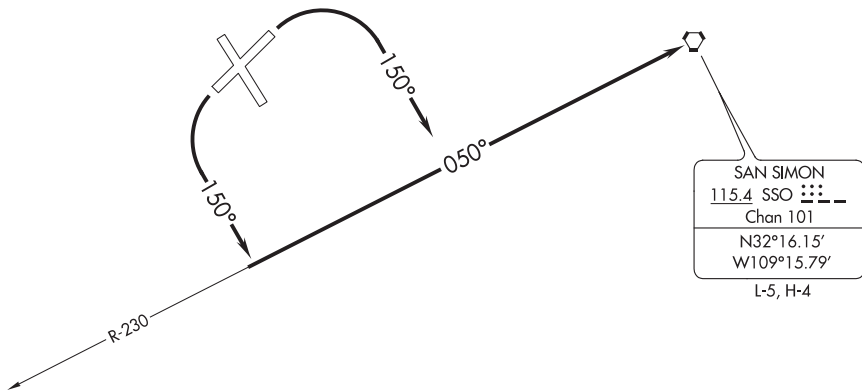
SW-4, 10 NOV 2016 to 05 JAN 2017

ELEV 4187	TDZE 4187
-----------	-----------



CATEGORY	A	B	C	D
LPV DA	4437-7/8	250 (300-7/8)		NA
LNAV/VNAV DA	4437-7/8	250 (300-7/8)		NA
LNAV MDA	4500-1	313 (400-1)		NA
CIRCLING	4600-1	4640-1		NA
	413 (500-1)	453 (500-1)		

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 W02A	APP CRS 021°	Rwy Idg 7000 TDZE 6719 Apt Elev 6742
--	------------------------	---

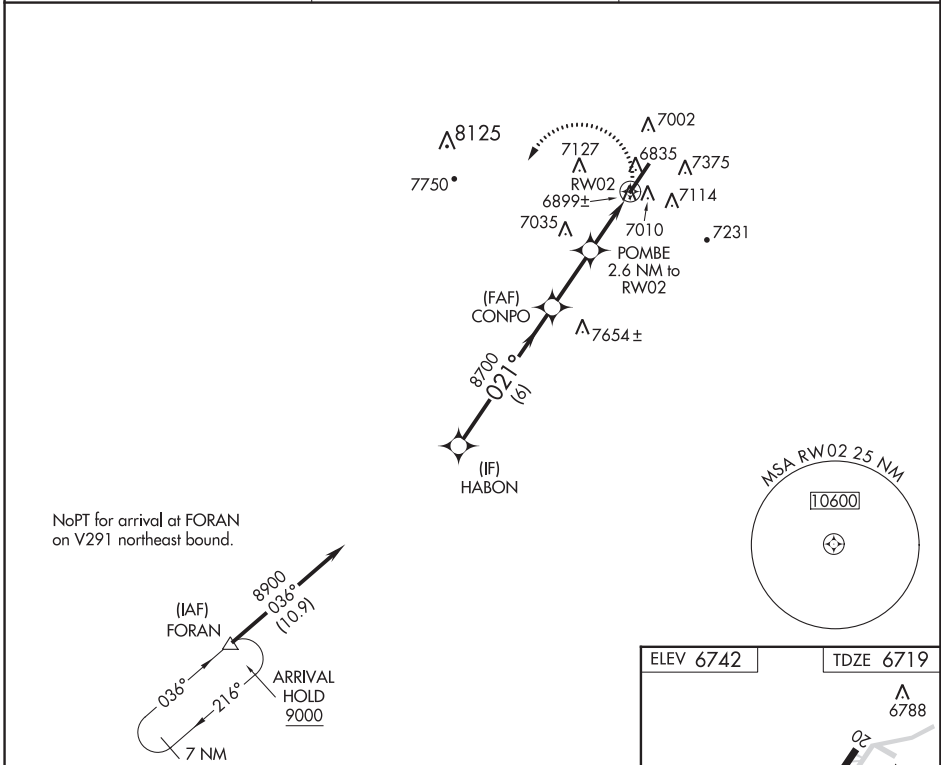
RNAV (GPS) RWY 2

WINDOW ROCK (RQE)

⚠ Night landing: Rwy 20 NA. When VGSI inop, procedure NA at night.
⚠ Circling NA east of Rwy 2-20. DME/DME RNP- 0.3 NA.
 Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 9600 direct FORAN and hold.

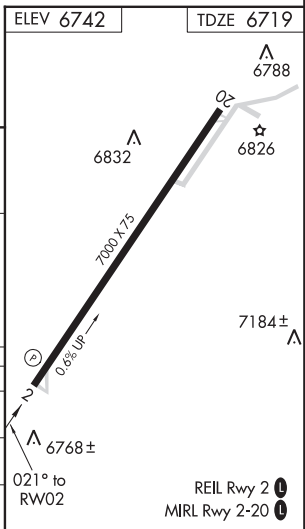
ASOS 118.325	ALBUQUERQUE CENTER 124.325 286.25	UNICOM 122.8 (CTAF) 0
------------------------	---	---------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

	HABON	VGSI and descent angles not coincident (VSGI Angle 3.00/TCH 36).		9600	FORAN
	8900	CONPO	POMBE		
		8700	2.6 NM to RWY 2		
			3.70° TCH 36		
			7740		
CATEGORY	A	B	C	D	
LP MDA	7380-1	661 (700-1)	7380-1 ⁷ / ₈ 661 (700-1 ⁷ / ₈)	NA	
LNAV MDA	7480-1 761 (800-1)	7480-1 ¹ / ₄ 761 (800-1 ¹ / ₄)	7480-2 ¹ / ₂ 761 (800-2 ¹ / ₂)	NA	
CIRCLING	7480-1 738 (800-1)	7480-1 ¹ / ₄ 738 (800-1 ¹ / ₄)	7540-2 ¹ / ₂ 798 (800-2 ¹ / ₂)	NA	



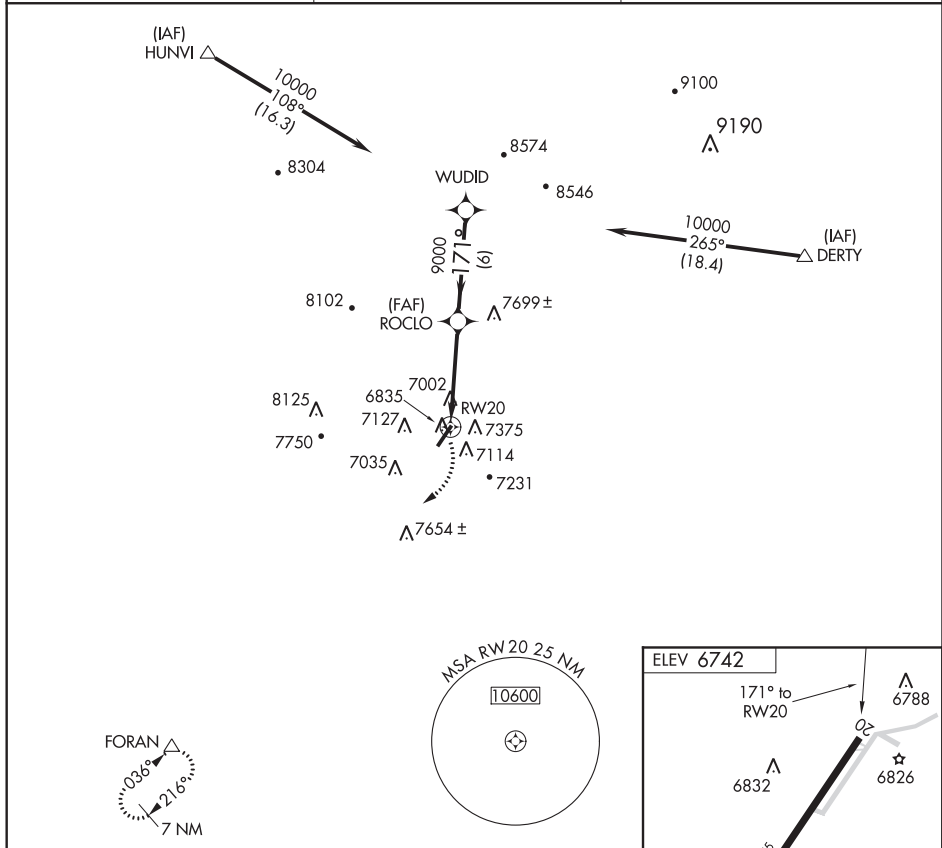
APP CRS 171°	Rwy Idg N/A
	TDZE N/A
	Apt Elev 6742

RNAV (GPS)-B

WINDOW ROCK (RQE)

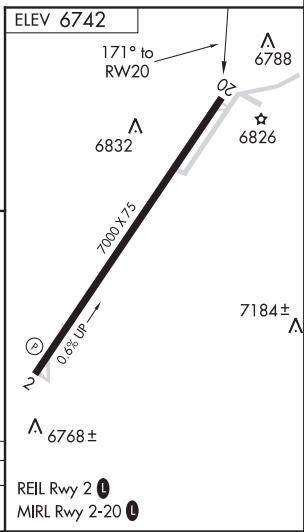
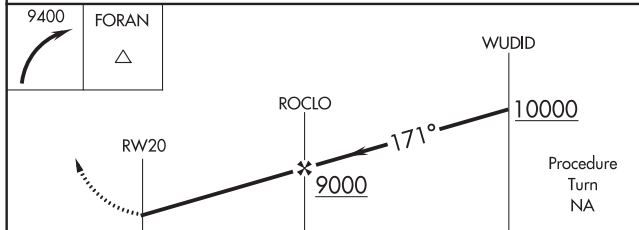
<p>⚠ DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 20 NA.</p>	<p>MISSED APPROACH: Climbing right turn to 9400 direct FORAN WP and hold.</p>
--	---

<p>ASOS 118.325</p>	<p>ALBUQUERQUE CENTER 124.325 288.25</p>	<p>UNICOM 122.8 (CTAF) 0</p>
--------------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	7720-1¼ 978 (1000-1¼)	7740-1½ 998 (1000-1½)	7740-3 998 (1000-3)	NA

REIL Rwy 2 **0**
MIRL Rwy 2-20 **0**

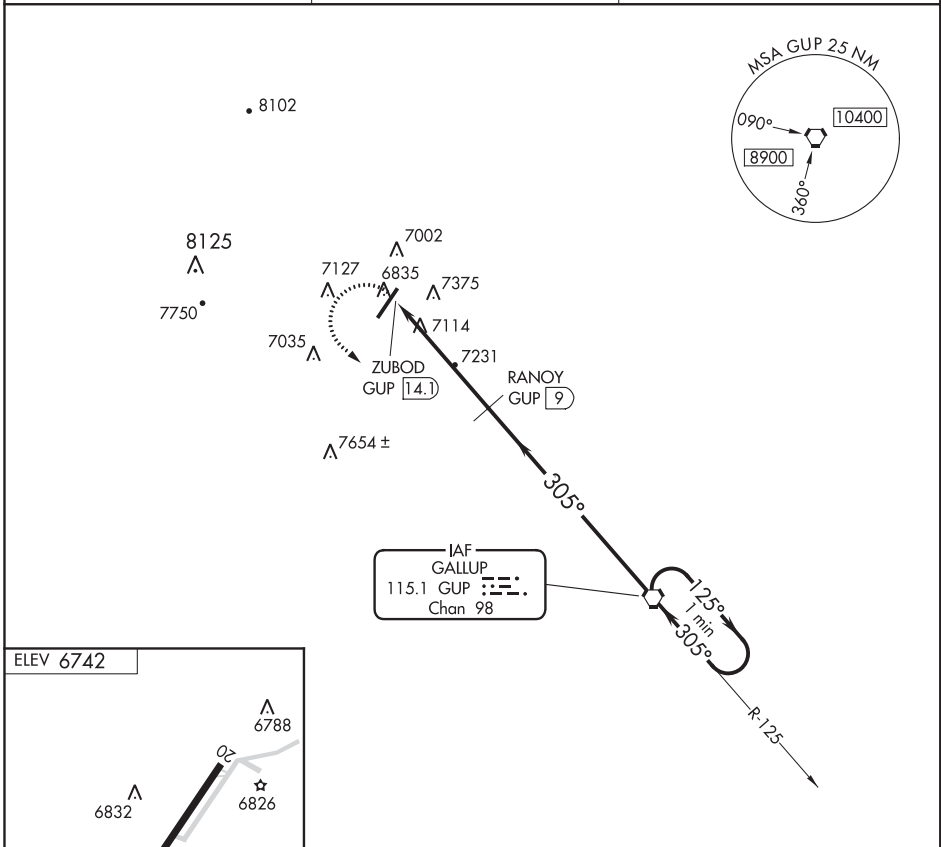
VORTAC GUP 115.1 Chan 98	APP CRS 305°	Rwy Idg TDZE Apt Elev N/A N/A 6742
--	------------------------	--

VOR/DME-A
WINDOW ROCK (RQE)

⚠ Night landing: Rwy 20 NA.
Helicopter visibility reduction below 1 SM NA.

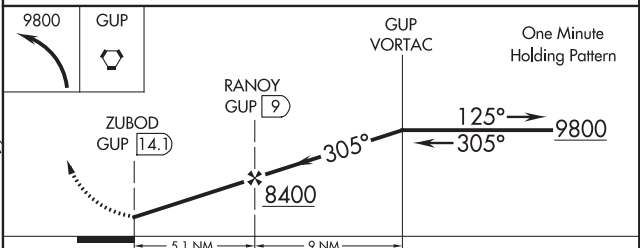
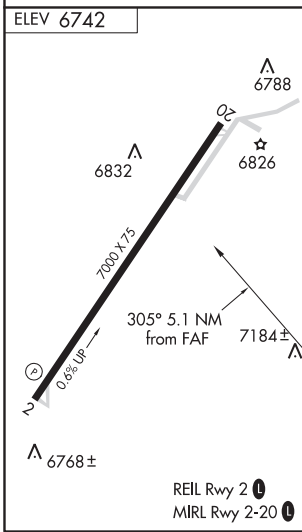
MISSED APPROACH: Climbing left turn to 9800 direct GUP VORTAC and hold.

ASOS 118.325	ALBUQUERQUE CENTER 124.325 288.25	UNICOM 122.8 (CTAF) 📻
------------------------	---	--



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



CATEGORY	A	B	C	D
CIRCLING	7760-1¼ 1018 (1100-1¼)	7760-1½ 1018 (1100-1½)	7760-3	1018 (1100-3)

WINNEMUCCA, NEVADA

AL-6471 (FAA)

16091

WAAS CH 62902 W14A	APP CRS 144°	Rwy Idg TDZE Apt Elev	7000 4304 4308
--	------------------------	-----------------------------	---

RNAV (GPS) RWY 14

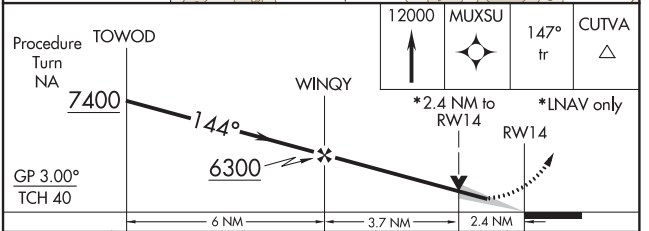
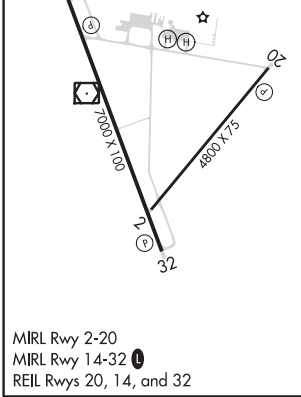
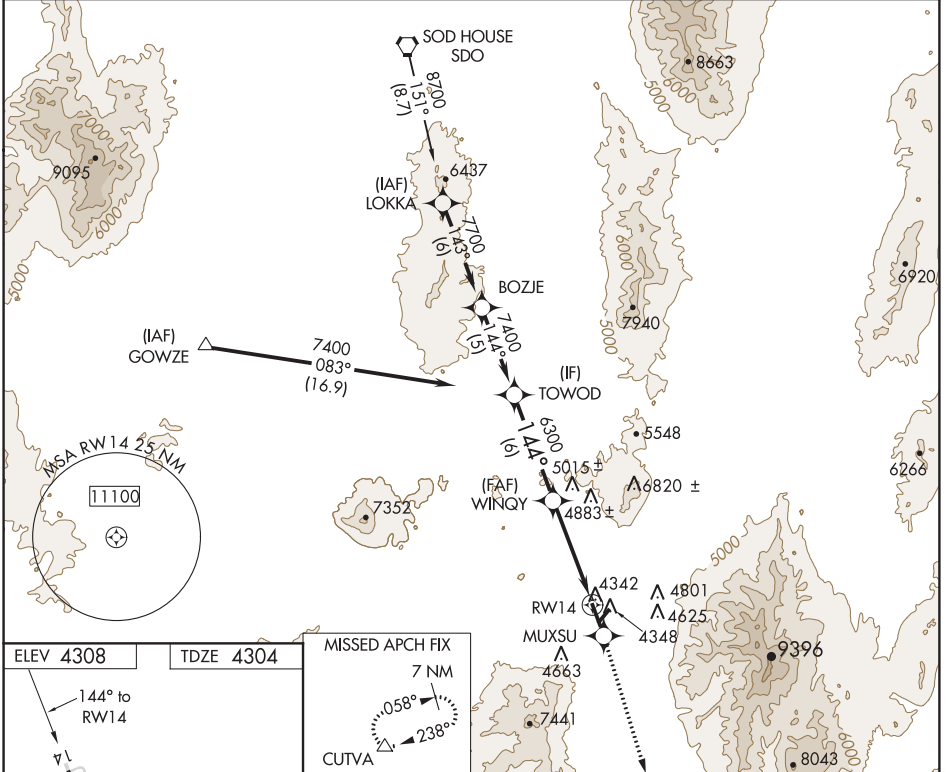
WINNEMUCCA MUNI (WMC)

⚠ If local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet. DME/DME RNP-0.3 NA. VDP NA when using Battle Mountain altimeter setting.

❄ -22°C/-8°F

MISSED APPROACH: Climb to 12000 direct MUXSU and via 147° track to CUTVA and hold, continue climb-in-hold to 12000.

ASOS 120.175	SALT LAKE CITY CENTER 132.25 338.35	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------



Procedure	TOWOD			
Turn	NA			
GP	3.00°			
TCH	40			
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)
CIRCLING	5100-2	792 (800-2)	5100-2¼ 792 (800-2¼)	5100-2½ 792 (800-2½)

WINNEMUCCA, NEVADA
Orig 28SEP06

40°54'N-117°48'W

WINNEMUCCA MUNI (WMC)

RNAV (GPS) RWY 14

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

WAAS CH 72702 W32A	APP CRS 324°	Rwy Idg TDZE Apt Elev	7000 4304 4308
--	------------------------	-----------------------------	---

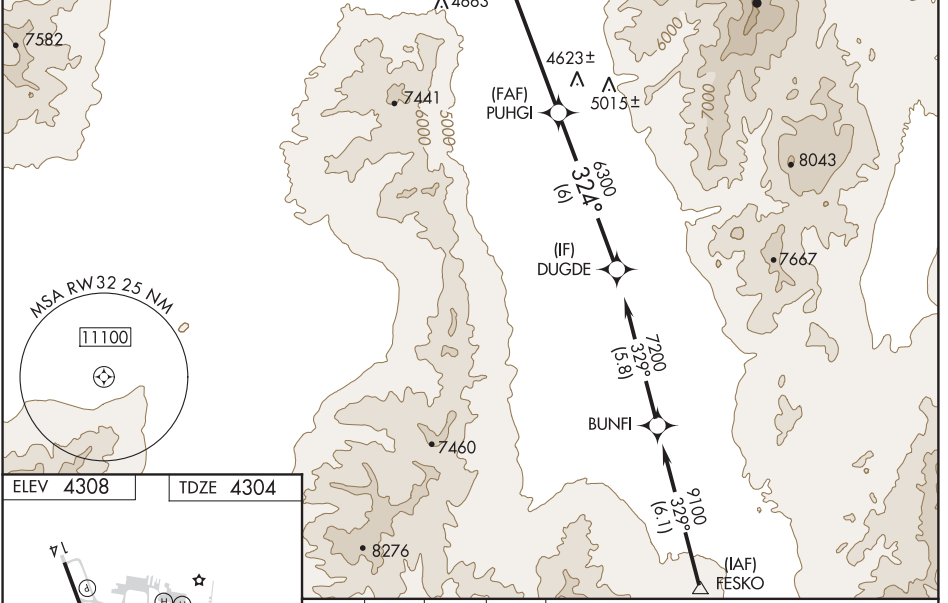
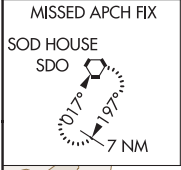
RNAV (GPS) RWY 32

WINNEMUCCA MUNI (WMC)

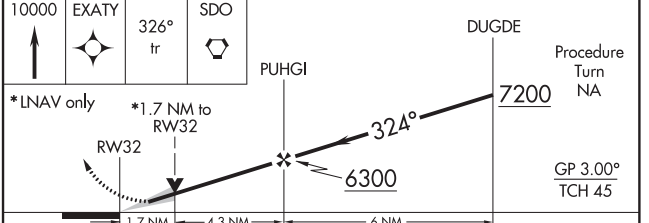
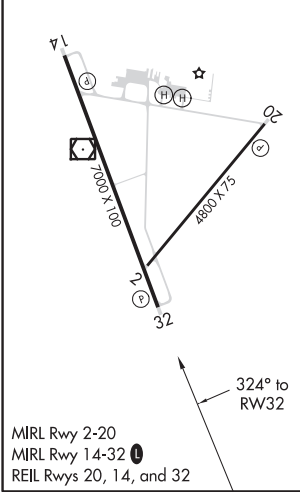
⚠ If local altimeter setting not received, use Battle Mountain altimeter setting and increase all DAs/MDAs 140 feet. DME/DME RNP-0.3 NA.
⚠ -22°C/-8°F VDP NA when using Battle Mountain altimeter setting.

MISSED APPROACH: Climb to 10000 direct EXATY and via 326° track to SDO VORTAC and hold.

ASOS 120.175	SALT LAKE CITY CENTER 132.25 338.35	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------



ELEV 4308	TDZE 4304
-----------	-----------



CATEGORY	A	B	C	D
LPV DA	4554- ³ / ₄ 250 (300- ³ / ₄)			
RNAV MDA	4880-1	576 (600-1)	4880-1½ 576 (600-1½)	4880-1¾ 576 (600-1¾)
CIRCLING	4880-1	572 (600-1)	4880-1½ 572 (600-1½)	4880-2 572 (600-2)

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

VOR/DME INA	APP CRS	Rwy Idg	7000
108.2	146°	TDZE	4304
Chan 19		Apt Elev	4308

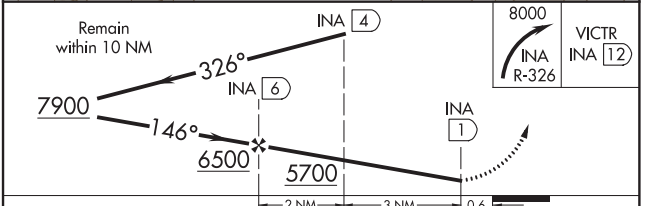
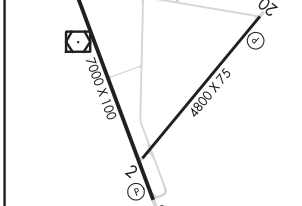
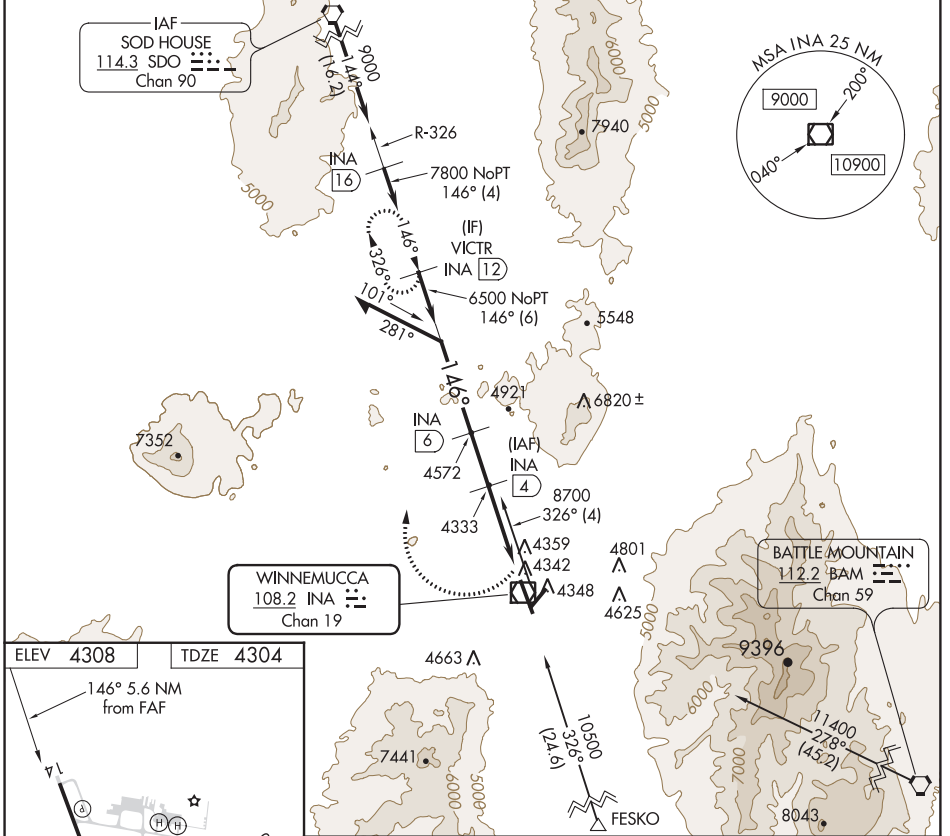
VOR RWY 14

WINNEMUCCA MUNI (WMC)

Procedure NA at night.
 Helicopter visibility reduction below 1 SM NA.
 DME required.

MISSED APPROACH: Climbing right turn to 8000 via INA VOR/DME R-326 to VICTR/12 DME and hold.

ASOS 120.175	SALT LAKE CITY CENTER 132.25 338.35	UNICOM 122.8 (CTAF)
------------------------	---	-------------------------------



CATEGORY	A	B	C	D
S-14	4620-1	316 (400-1)	4840-1½ 536 (600-1½)	NA
CIRCLING	4720-1 412 (500-1)	4760-1 452 (500-1)	4840-1½ 532 (600-1½)	NA

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

16091
AIRPORT DIAGRAM

WINNEMUCCA MUNI (W/MC)
WINNEMUCCA, NEVADA

AL-6471 (FAA)

ASOS
120.175
CTAF/UNICOM
122.8

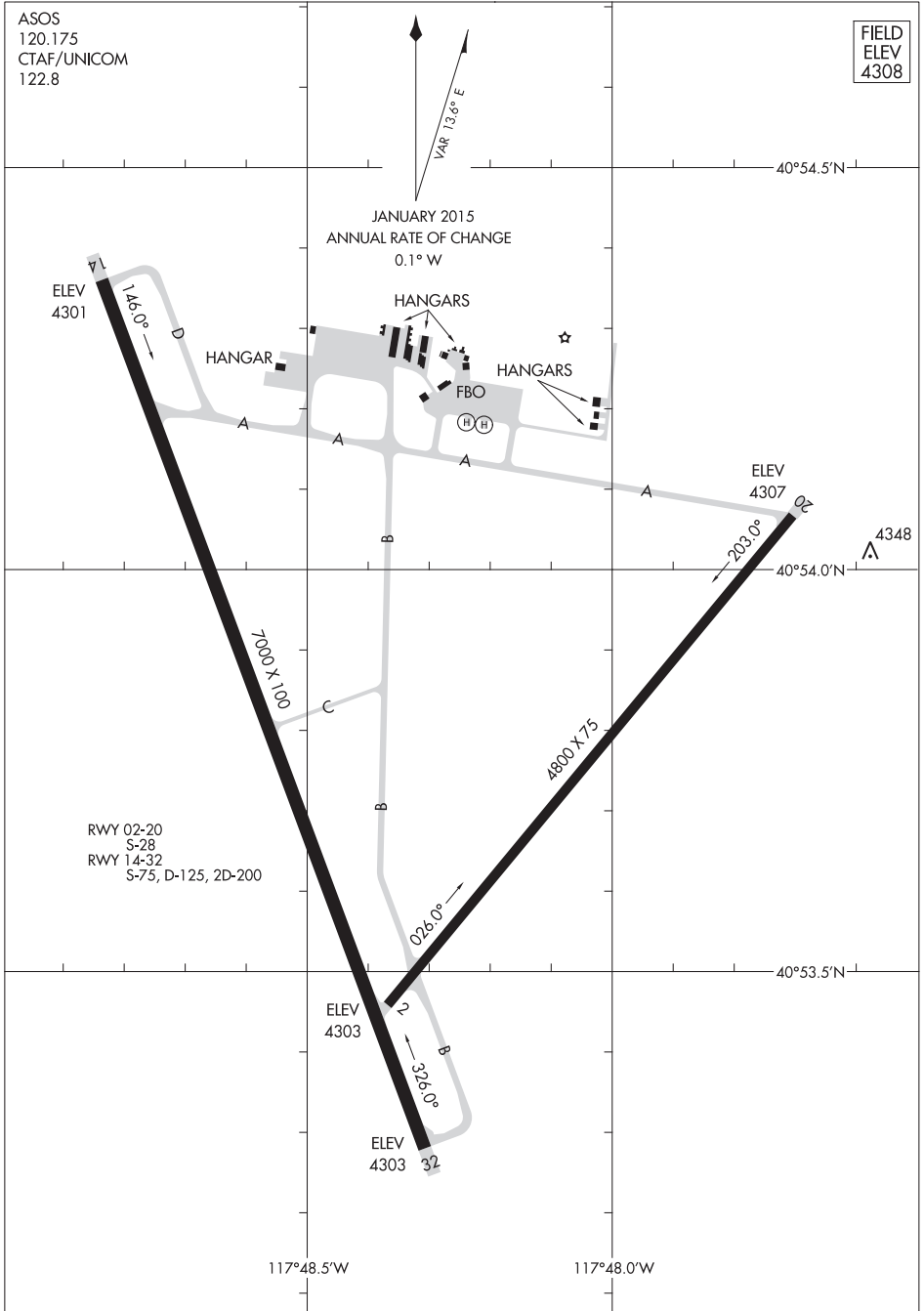
FIELD
ELEV
4308



JANUARY 2015
ANNUAL RATE OF CHANGE
0.1° W

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



AIRPORT DIAGRAM
16091

WINNEMUCCA, NEVADA
WINNEMUCCA MUNI (W/MC)

WINSLOW, ARIZONA

AL-462 (FAA)

16259

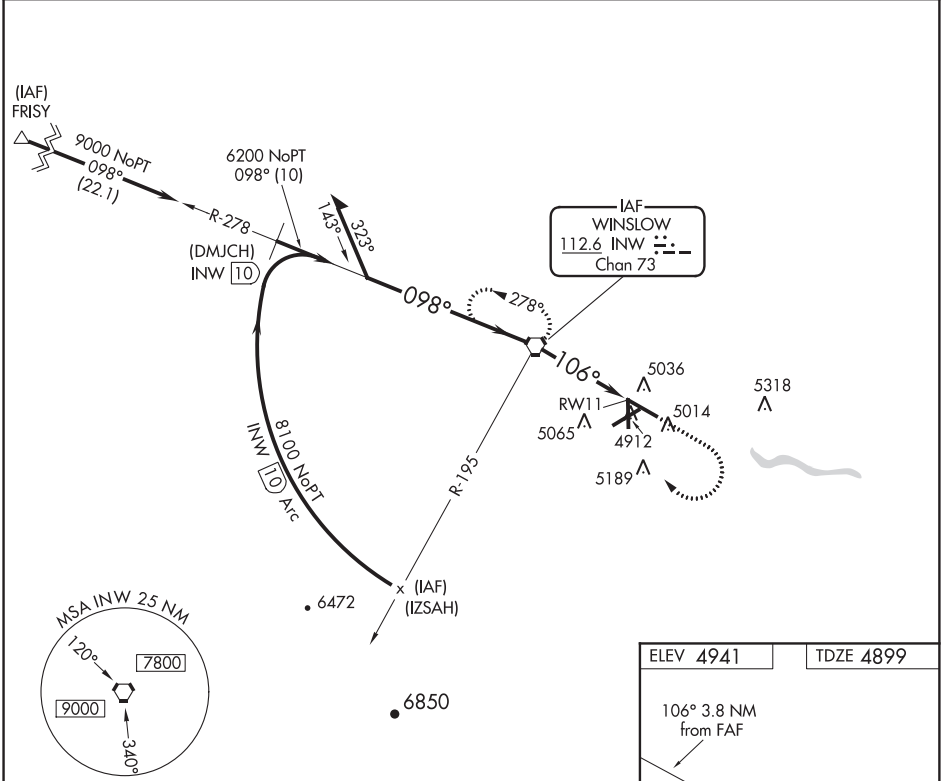
VORTAC INW 112.6 Chan 73	APP CRS 106°	Rwy Idg TDZE Apt Elev 7100 4899 4941
---------------------------------------	------------------------	--

VOR or GPS RWY 11

WINSLOW-LINDBERGH RGNL (INW)

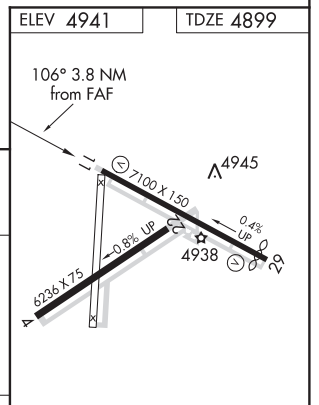
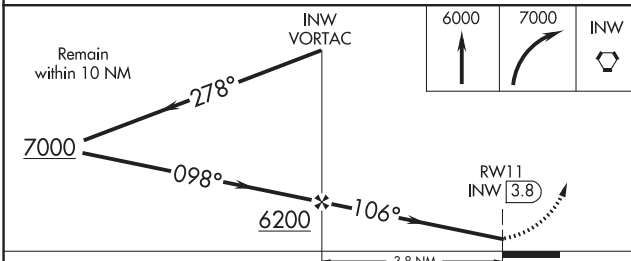
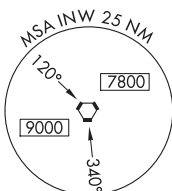
Rwy 11 Straight-in and Circling and Circling to Rwy 4 NA at night. Helicopter visibility reduction below 1 SM NA. MISSED APPROACH: Climb to 6000, then climbing right turn to 7000 direct INW VORTAC and hold.

ASOS 118.875	ALBUQUERQUE CENTER 127.675 306.2	UNICOM 122.8 (CTAF)
------------------------	--	-------------------------------



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



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)

REIL Rwy 11 and 22
MIRL Rwy 4-22 and 11-29

FAF to MAP 3.8 NM

Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

WINSLOW, ARIZONA
Amdt 4C 06FEB14

35°01'N-110°43'W

WINSLOW-LINDBERGH RGNL (INW)

VOR or GPS RWY 11

YUMA, ARIZONA

ILS or LOC/DME RWY 21R

LOC I-YUM 108.3	APCH CRS 213°	Rwy ldg THRE Arpt Elev	21L 9239 21L 208 213	21R 13,300 21R 193
---------------------------	-------------------------	------------------------------	---	-------------------------------------

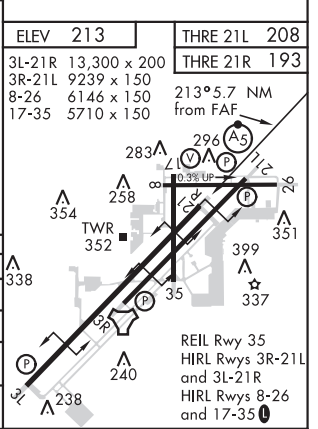
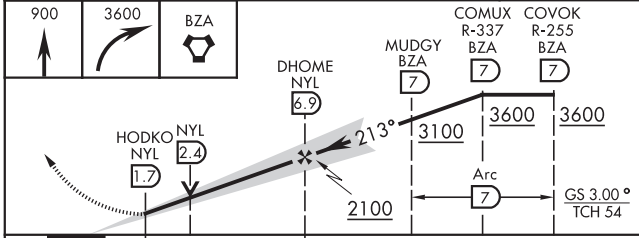
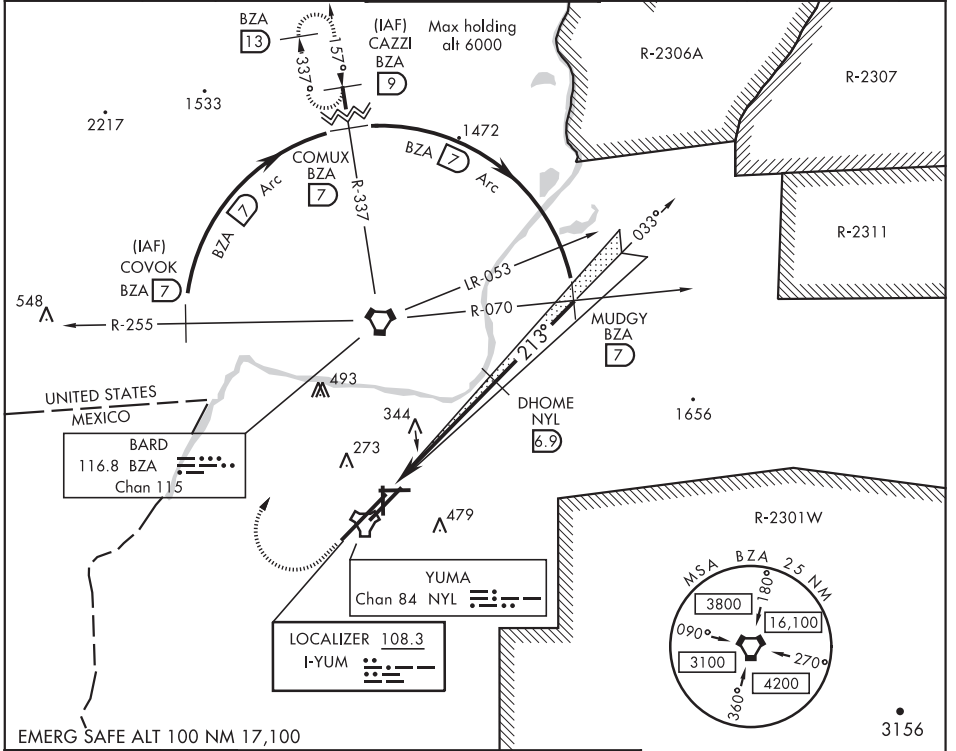
AL-511 [USN] YUMA MCAS/YUMA INTL (KNYL)

▼ * When ALS inop, increase CAT ABCD vis to 3/4 mile.
 ** When ALS inop, increase CAT AB vis to 1 mile,
 CAT CD vis to 1 1/4 miles.



MISSED APPROACH: Climb to 900, then climbing right turn to 3600 direct BZA
 VORTAC and BZA R-337 to CAZZI and hold.

ATIS ★ 118.8 273.5	ASOS 256.4	YUMA APP CON 124.7 371.975	YUMA TOWER ★ 119.3 (CTAF) 0 377.075	GND CON 121.9 314.0	CLNC DEL 118.0 336.4	ASR/PAR
------------------------------	----------------------	--------------------------------------	---	-------------------------------	--------------------------------	---------



CATEGORY	A	B	C	D
S-ILS 21R *	393-1/2		200	(200-1/2)
S-LOC 21R **	620-1/2	427 (500-1/2)	620-3/4	427 (500-3/4)
SIDESTEP 21L	620-1	413 (500-1)	620-1 1/8	413 (500-1 1/8)
CIRCLING	680-1	467 (500-1)	800-1 1/2 587 (600-1 1/2)	800-2 587 (600-2)

YUMA, ARIZONA
 Amtd 4 12DEC13

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

ILS or LOC/DME RWY 21R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YUMA, ARIZONA

RNAV (GPS) RWY 3L

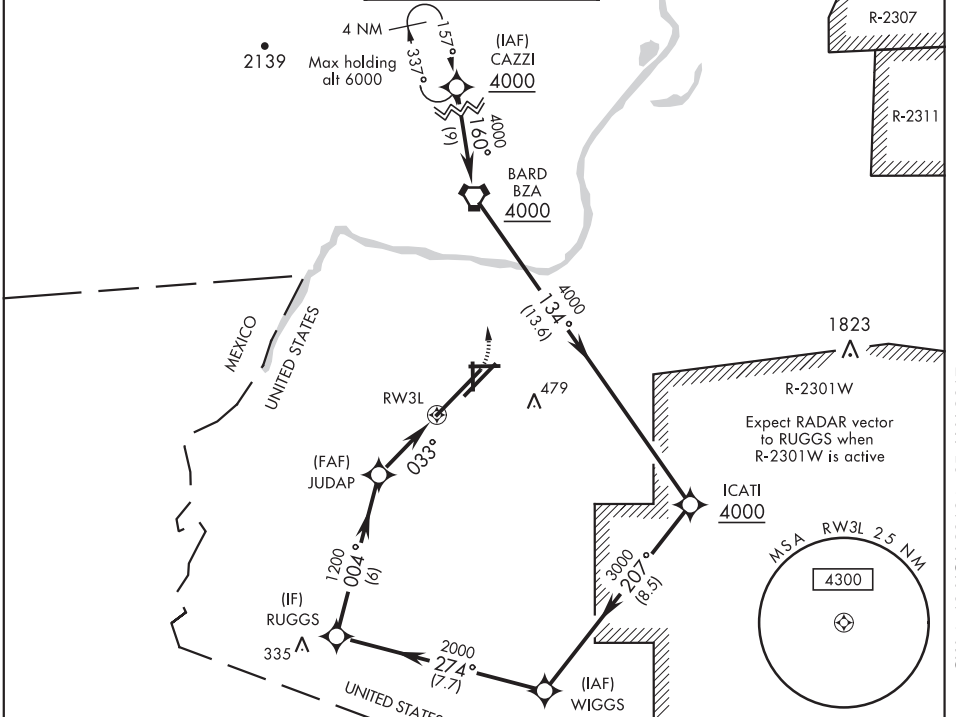
APCH CRS 033°	Rwy Idg 13,300
	THRE 192
	Arpt Elev 213

AL-511 [USN]

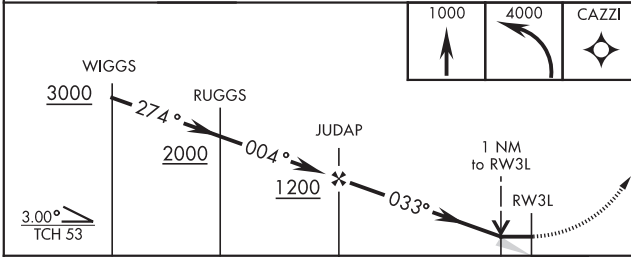
YUMA MCAS/YUMA INTL (KNYL)

DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 1000, then climbing left turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000.				
---------------------	--	--	--	--	--	--

ATIS ★ 118.8 273.5	ASOS 256.4	YUMA APP CON 124.7 371.975	YUMA TOWER ★ 119.3 (CTAF) 0 377.075	GND CON 121.9 314.0	CLNC DEL 118.0 336.4	ASR/ PAR
------------------------------	----------------------	--------------------------------------	---	-------------------------------	--------------------------------	-------------

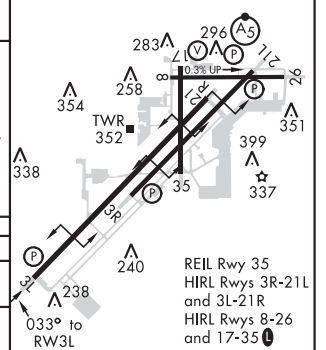


EMERG SAFE ALT 100 NM 17,100



ELEV 213	THRE 192
----------	----------

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
LNVA MDA	560-1		368	(400-1)
CIRCLING	680-1	467 (500-1)	780-1½ 567 (600-1½)	780-2 567 (600-2)

YUMA, ARIZONA
Amdt 2 30APR15

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

RNAV (GPS) RWY 3L

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

RNAV (GPS) RWY 17

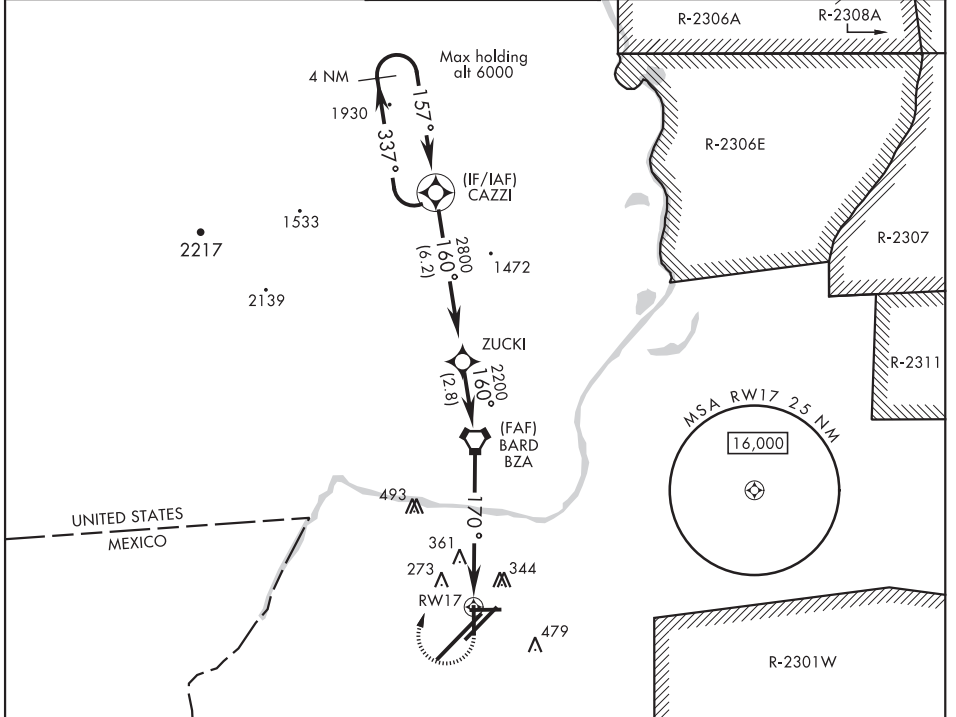
APCH CRS	Rwy Idg	5710
170°	THRE	196
	Arprt Elev	213

AL-511 [USN]

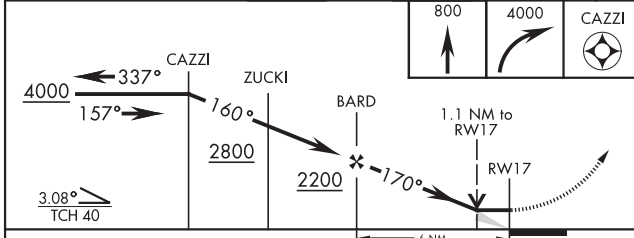
YUMA MCAS/YUMA INTL (KNYL)

<p>▼ DME/DME RNP-0.3 NA.</p>		<p>MISSED APPROACH: Climb to 800 then, climbing right turn to 4000 direct CAZZI and hold. Continue climb in hold to 4000.</p>				
------------------------------	--	---	--	--	--	--

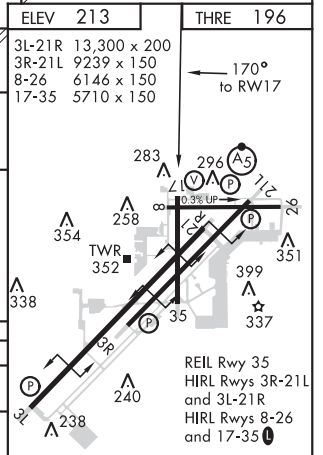
ATIS ★	ASOS	YUMA APP CON	YUMA TOWER ★	GND CON	CLNC DEL	ASR/PAR
118.8 273.5	256.4	124.7 371.975	119.3 (CTAF) 377.075	121.9 314.0	118.0 336.4	



ELEV 213	THRE 196
3L-21R 13,300 x 200	← 170° to RWY 17
3R-21L 9239 x 150	
8-26 6146 x 150	
17-35 5710 x 150	



CATEGORY	A	B	C	D
LNAV MDA	600-1 404 (400-1)		600-1½ 404 (400-1½)	
CIRCLING	680-1 467 (500-1)		780-1½ 567 (600-1½)	780-2 567 (600-2)



RNAV (GPS) RWY 17

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YUMA, ARIZONA

RNAV (GPS) RWY 21R

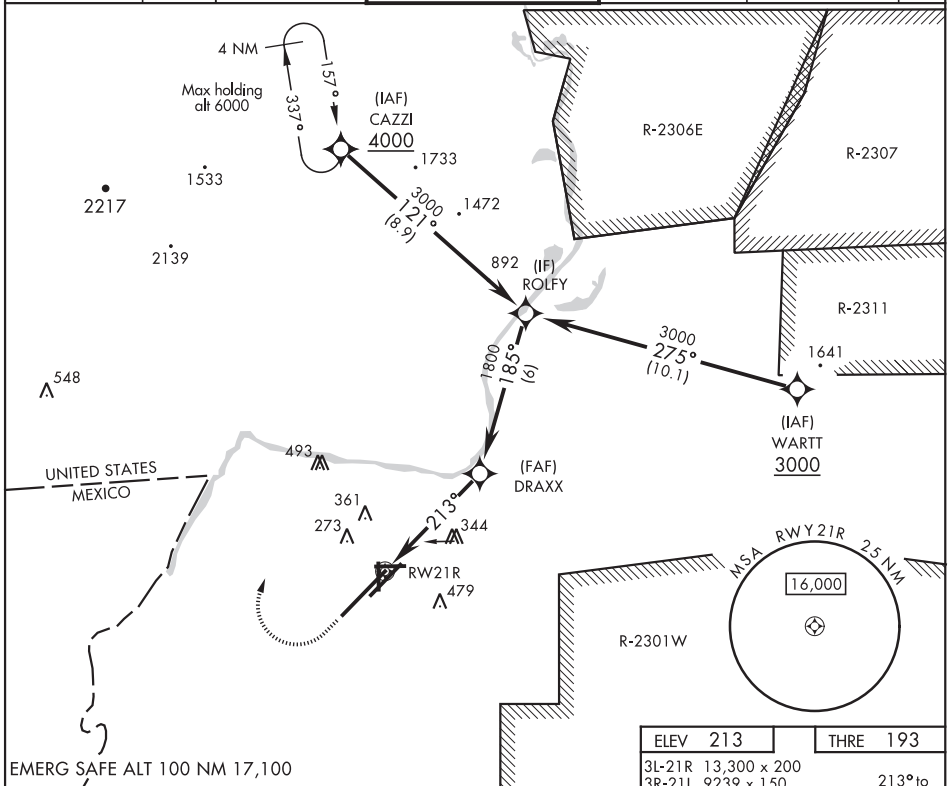
APCH CRS 213°	Rwy Idg 13,300
	THRE 193
	Arpt Elev 213

AL-511 [USN]

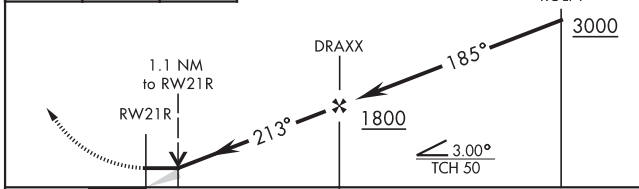
YUMA MCAS/YUMA INTL (KNYL)

	* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1½ miles. DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 800 then, climbing right turn to 4000 direct CAZZI 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) 0 377.075	121.9 314.0	118.0 336.4	



800	4000	CAZZI



ELEV 213	THRE 193
3L-21R 13,300 x 200	213° to RWY 21R
3R-21L 9239 x 150	
8-26 6146 x 150	
17-35 5710 x 150	

Detailed airport diagram showing taxiways (A, P), runways (3L, 3R, 8-26, 17-35, RWY 21R), and buildings (TWR 352, REIL Rwy 35, HIRL Rwy 3R-21L and 3L-21R, HIRL Rwy 8-26 and 17-35).

CATEGORY	A	B	C	D
RNAV MDA*	600-¾	407	(400-¾)	
CIRCLING	680-1	467 (500-1)	780-1½ 567 (600-1½)	780-2 567 (600-2)

YUMA, ARIZONA
Amdt 2 22AUG13

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

RNAV (GPS) RWY 21R

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YUMA, ARIZONA

VOR/DME or TACAN RWY 17

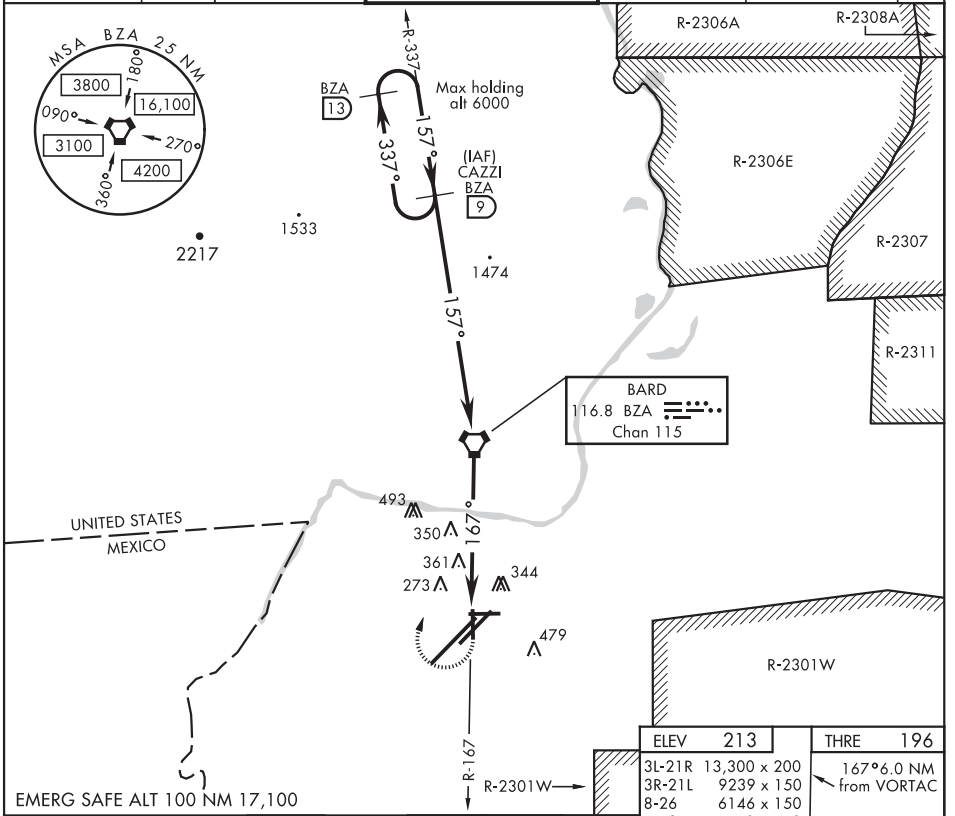
VORTAC BZA 116.8 Chan 115	APCH CRS 167°	Rwy ldg THRE 196 Arprt Elev 213
---	-------------------------	---

AL-511 [USN]

YUMA MCAS/YUMA INTL (KNYL)

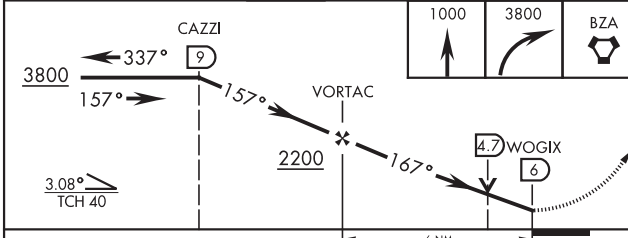
▽ MISSED APPROACH: Climb to 1000, then climbing right turn to 3800 direct BZA VORTAC and BZA R-337 to CAZZI and hold.

ATIS ★ 118.8 273.5	ASOS 256.4	YUMA APP CON 124.7 371.975	YUMA TOWER ★ 119.3 (CTAF) 0377.075	GND CON 121.9 314.0	CLNC DEL 118.0 336.4	ASR/ PAR
------------------------------	----------------------	--------------------------------------	--	-------------------------------	--------------------------------	-------------

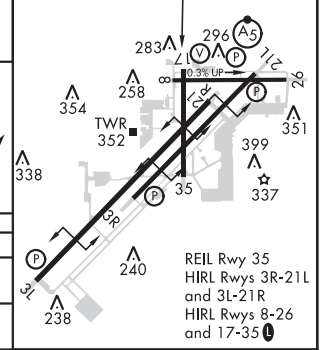


SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



ELEV 213	THRE 196
3L-21R 13,300 x 200	167° 6.0 NM from VORTAC
3R-21L 9239 x 150	
8-26 6146 x 150	
17-35 5710 x 150	



YUMA, ARIZONA
Amdt 3 22AUG13

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

VOR/DME or TACAN RWY 17

YUMA, ARIZONA

VOR RWY 17

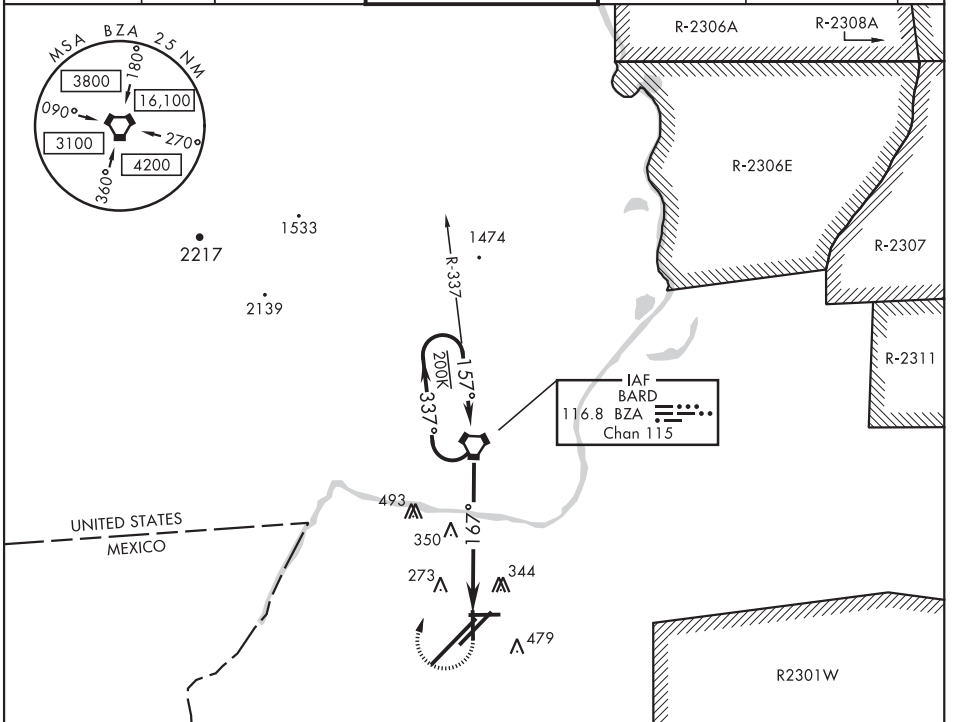
VORTAC BZA 116.8 Chan 115	APCH CRS 167°	Rwy Idg THRE 196 Arpt Elev 213
---	-------------------------	--

AL-511 [USN]

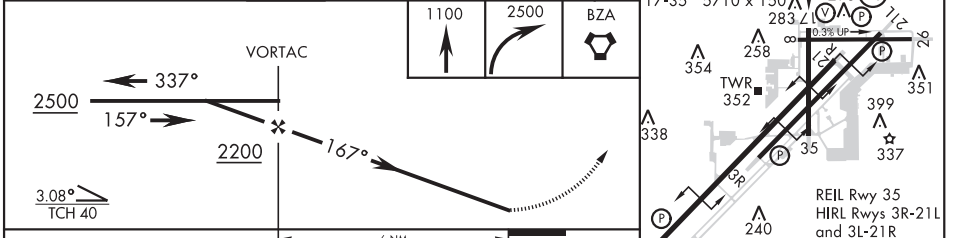
YUMA MCAS/YUMA INTL (KNYL)

▼ MISSED APPROACH: Climb to 1100, then climbing right turn to 2500 direct BZA VORTAC and hold.

ATIS ★ 118.8 273.5	ASOS 256.4	YUMA APP CON 124.7 371.975	YUMA TOWER ★ 119.3 (CTAF) 0 377.075	GND CON 121.9 314.0	CLNC DEL 118.0 336.4	ASR/ PAR
------------------------------	----------------------	--------------------------------------	---	-------------------------------	--------------------------------	-------------



ELEV 213	THRE 196
3L-21R 13,300 x 200	167° 6.0 NM from VORTAC
3R-21L 9239 x 150	
8-26 6146 x 150	
17-35 5710 x 150	



CATEGORY	A	B	C	D
S-17	640-1 444 (500-1)		NA	
CIRCLING	680-1 467 (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

YUMA, ARIZONA
Amdt 2 22AUG13

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

VOR RWY 17

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

YUMA, ARIZONA

TACAN RWY 21R

YUMA MCAS/YUMA INTL (KNYL)

TACAN NYL Chan 84	APCH CRS 208°	Rwy Idg 13,300 THRE 193 Arpt Elev 213
-----------------------------	-------------------------	--

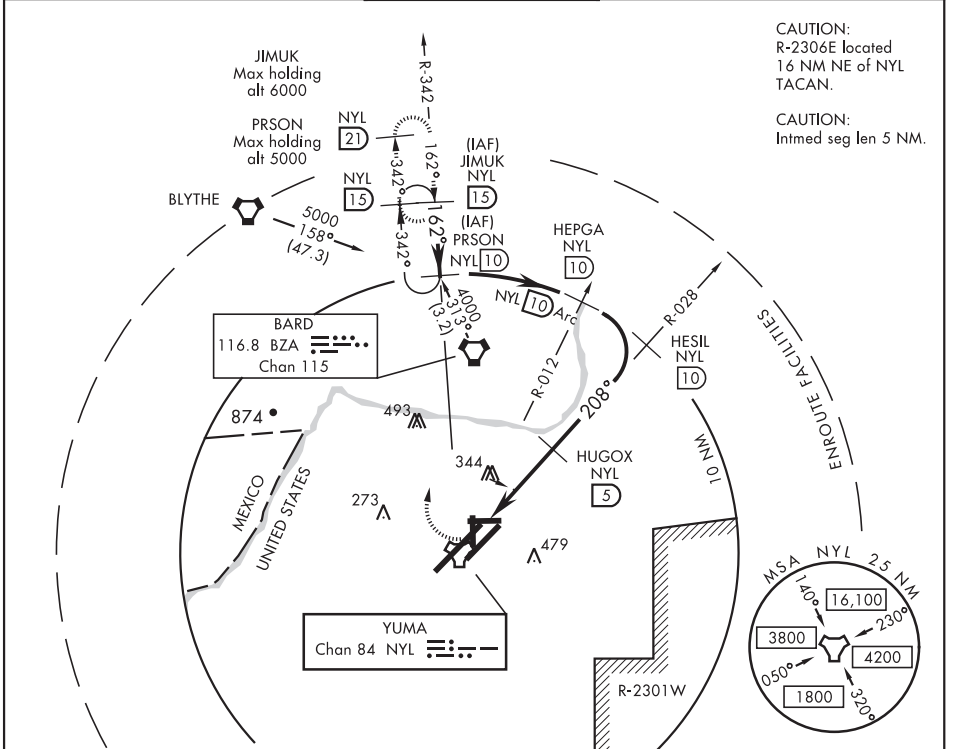
AL-511 [USN]

▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1/4 miles.



MISSED APPROACH: Climbing right turn to 4000 intercept NYL TACAN R-342 to JIMUK and hold, continue climb-in-hold to 4000.

ATIS * 118.8 273.5	ASOS 256.4	YUMA APP CON 124.7 371.975	YUMA TOWER * 119.3 (CTAF) 0 377.075	GND CON 121.9 314.0	CLNC DEL 118.0 336.4	ASR/PAR
------------------------------	----------------------	--------------------------------------	---	-------------------------------	--------------------------------	---------



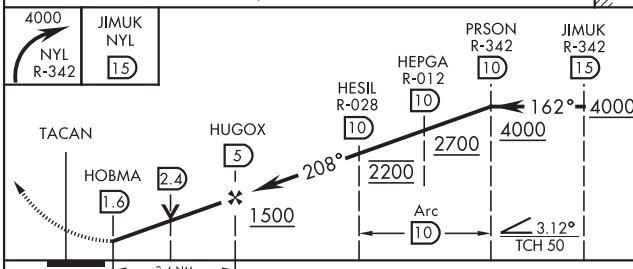
CAUTION: R-2306E located 16 NM NE of NYL TACAN.

CAUTION: Intmed seg len 5 NM.

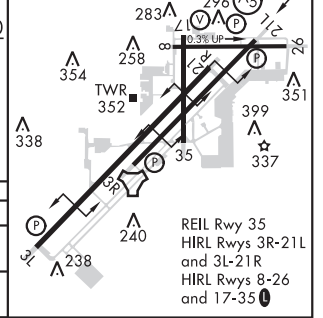
SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

EMERG SAFE ALT 100 NM 17,100



ELEV 213	THRE 193
----------	----------



REIL Rwy 35
HIRL Rwys 3R-21L and 3L-21R
HIRL Rwys 8-26 and 17-35

CATEGORY	A	B	C	D
S-21R *	620-1/2	427 (500-1/2)	620-3/4 427 (500-3/4)	
CIRCLING	680-1	467 (500-1)	800-1 1/2 587 (600-1 1/2)	800-2 587 (600-2)

YUMA, ARIZONA
Amdt 3 22AUG13

32°39'N-114°36'W

YUMA MCAS/YUMA INTL (KNYL)

TACAN RWY 21R

ARGUS THREE DEPARTURE (ARGUS3•ARGUS)

YUMA MCAS/YUMA INTL (KNYL)

YUMA, ARIZONA

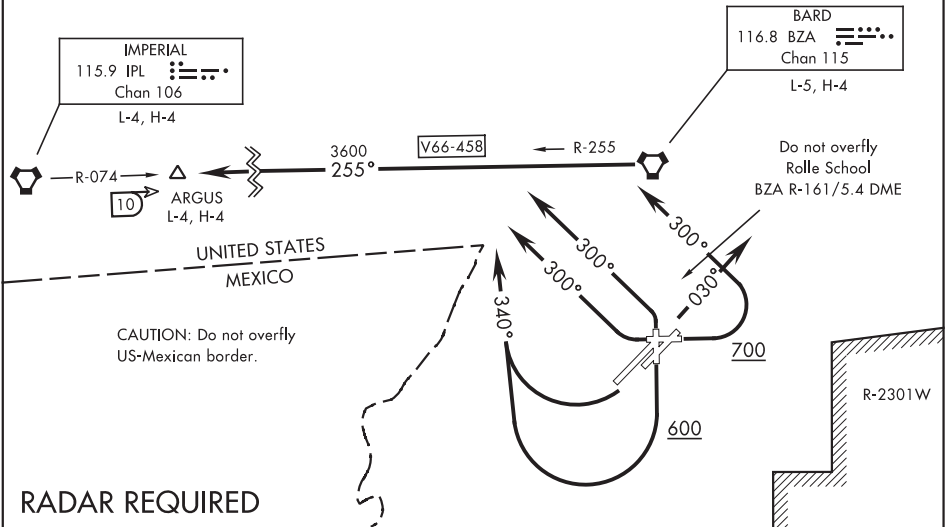
ATIS ★
 118.8 273.5
 CLNC DEL
 118.0 336.4
 GND CON
 121.9 314.0
 YUMA TOWER ★
 119.3 377.075
 YUMA DEP CON
 125.55 282.325
 ASOS
 256.4

SHL-511 [USN]

▲
 2663

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017



RADAR REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Cross DER at or above 35' AGL/228' MSL, then fly hdg 030°, expect RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 8: Climb to 700, then climbing left turn heading 300°, expect RADAR vectors to intercept BZA VORTAC R-255. Thence....

TAKE-OFF RWY 17: Climb to 600, then climbing right turn heading 340°, expect RADAR vectors to intercept BZA VORTAC R-255. Thence....

TAKE-OFF RWY 21L/R: Climbing right turn hdg 340°, expect RADAR vectors to intercept BZA VORTAC R-255. Thence...

TAKE-OFF RWY 26: Climbing right turn heading 300°, expect RADAR vectors to intercept BZA VORTAC R-255. Thence....

TAKE-OFF RWY 35: Climbing left turn heading 300°, then expect 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.

ARGUS THREE DEPARTURE (ARGUS3•ARGUS)

YUMA, ARIZONA

YUMA MCAS/YUMA INTL (KNYL)

CARGO EIGHT DEPARTURE (CARGO8 • CARGO)

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]

BLYTHE
 117.4 BLH
 Chan 121
 L-4-5, H-4

▲ 2663

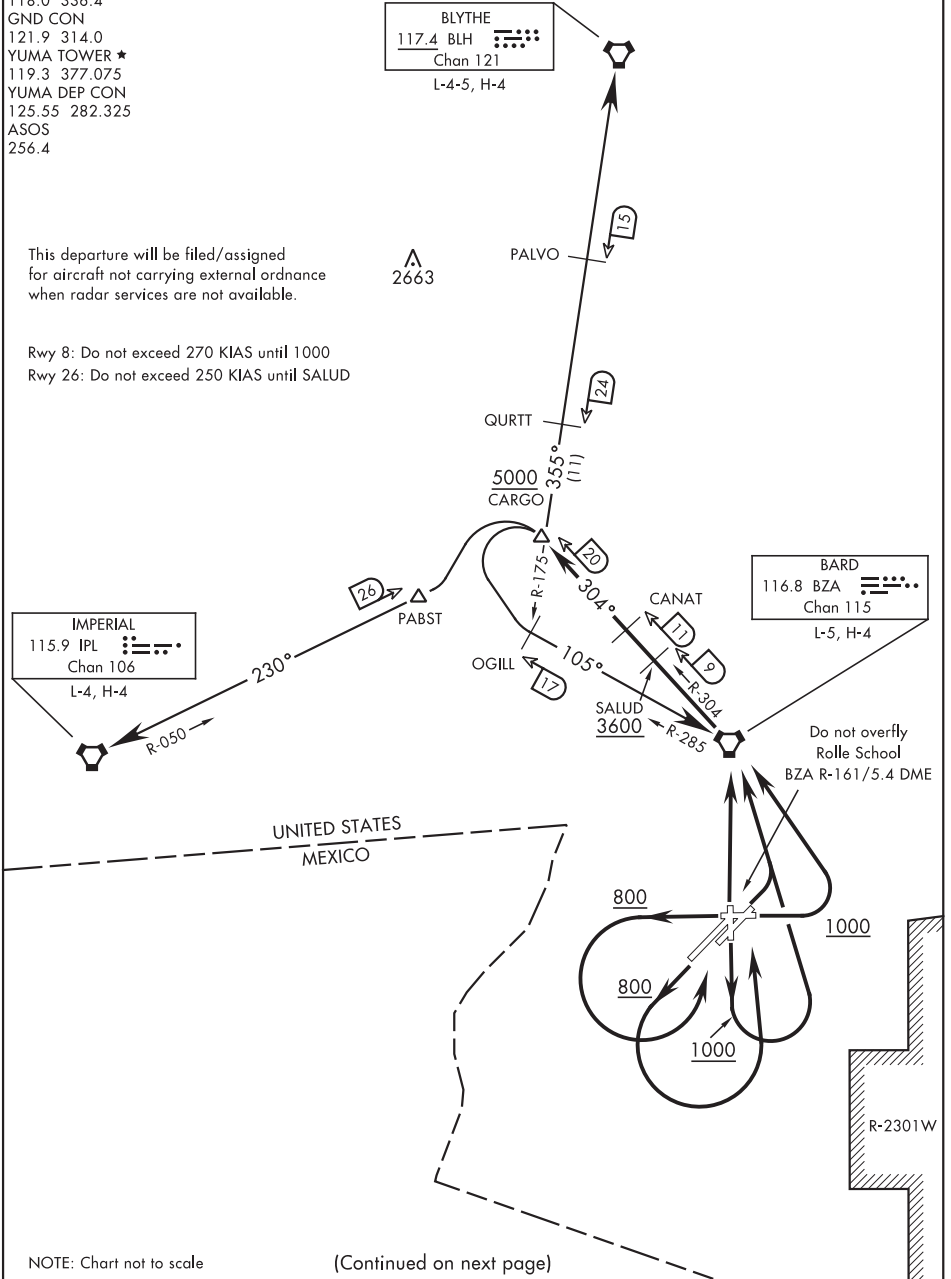
This departure will be filed/assigned
 for aircraft not carrying external ordnance
 when radar services are not available.

Rwy 8: Do not exceed 270 KIAS until 1000
 Rwy 26: Do not exceed 250 KIAS until SALUD

IMPERIAL
 115.9 IPL
 Chan 106
 L-4, H-4

BARD
 116.8 BZA
 Chan 115
 L-5, H-4

Do not overfly
 Rolle School
 BZA R-161/5.4 DME



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

NOTE: Chart not to scale

(Continued on next page)

CARGO EIGHT DEPARTURE (CARGO8 • CARGO)

SHL-511 [USN]

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Cross DER at or above 35' AGL/228' MSL, then climbing left turn to intercept BZA VORTAC R-304 to CARGO. Then via assigned route, maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

TAKE-OFF RWY 8/17: Climb to 1000, then climbing left turn direct BZA VORTAC. Then, via BZA R-304 to CARGO. Thence...

TAKE-OFF RWY 21L/R, 26: Climb to 800, then climbing left turn direct BZA VORTAC. Then via BZA R-304 to CARGO. Thence...

TAKE-OFF RWY 35: Climb direct BZA VORTAC, then via BZA R-304 to CARGO. Thence...

BARD TRANSITION (CARGO8•BZA): At CARGO, turn left to intercept BZA VORTAC R-285 to BZA, Max 250 KIAS until OGILL.

BLYTHE TRANSITION (CARGO8•BLH): At CARGO, turn right to intercept BLH VORTAC R-175 to BLH.

IMPERIAL TRANSITION (CARGO8•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.

SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

HEEDS ONE DEPARTURE (HEEDS1 • HEEDS)

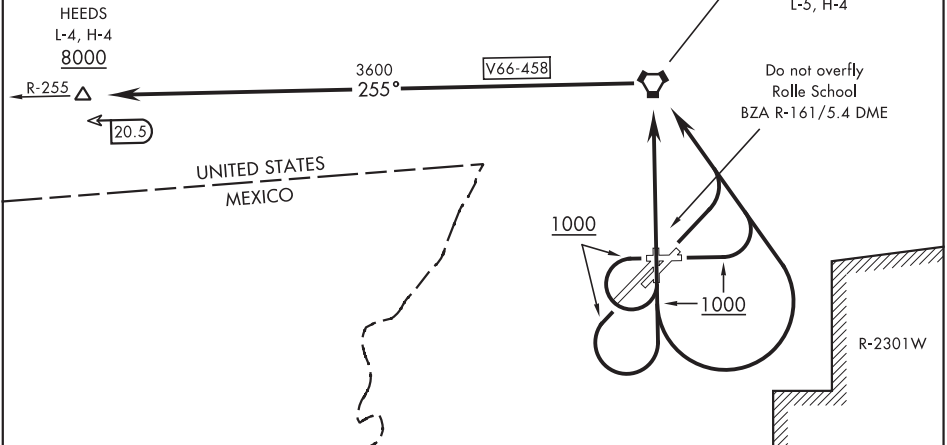
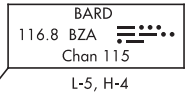
ATIS ★
 118.8 273.5
 CLNC DEL
 118.0 336.4
 GND CON
 121.9 314.0
 YUMA TOWER ★
 119.3 377.075
 YUMA DEP CON
 125.55 282.325
 ASOS
 256.4

▲
 2663

Rwy	Knots	60	120	180	240	300	360
3L/R	V/V(fpm)	343	686	1029	1372	1715	2058
8, 17, 21L/R, 26	V/V(fpm)	291	582	873	1164	1455	1746
35	V/V(fpm)	202	404	606	808	1010	1212

ATC Climb Rate to 8000

Runway 8, 17, 21L/R, 26:
 Do not exceed 240 KIAS
 until 1000



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L/R: Cross DER at or above 35' AGL/228' MSL, then climbing left turn to 8000 to intercept the BZA VORTAC R-255 to HEEDS. Cross HEEDS at or above 8000.

TAKE-OFF RWY 8, 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, then via BZA R-255 to HEEDS. Cross HEEDS at or above 8000.

Then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude 10 minutes after departure.

HEEDS ONE DEPARTURE (HEEDS1 • HEEDS)

MOHAK THREE DEPARTURE (MOHAK3•MOHAK)

YUMA, ARIZONA

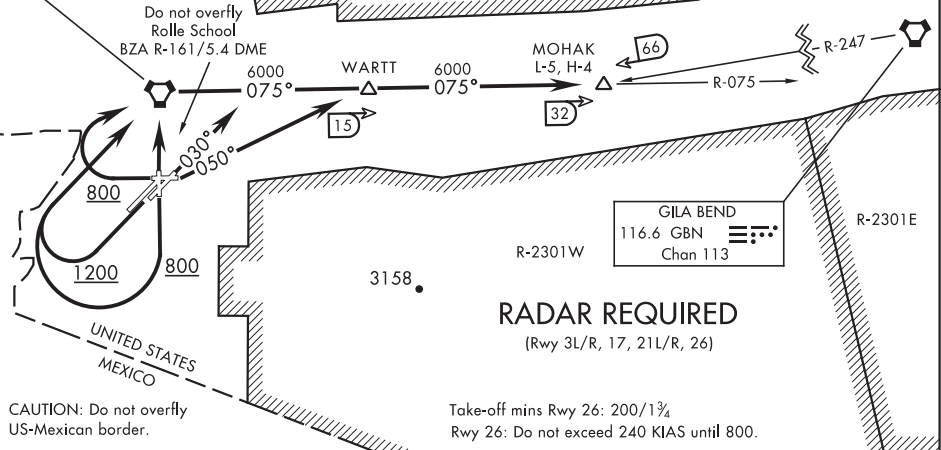
ATIS ★
 118.8 273.5
 CLNC DEL
 118.0 336.4
 GND CON
 121.9 314.0
 YUMA TOWER ★
 119.3 377.075
 YUMA DEP CON
 125.55 282.325
 ASOS
 256.4

R-2306
 R-2307
 R-2308
 R-2309

CAUTION: Tethered Balloon
 ▲ up to 15,000

BARD
 116.8 BZA
 Chan 115

SW-4, 10 NOV 2016 to 05 JAN 2017



SW-4, 10 NOV 2016 to 05 JAN 2017

CAUTION: Do not overfly
 US-Mexican border.

Take-off mins Rwy 26: 200/1¾
 Rwy 26: Do not exceed 240 KIAS until 800.

DEPARTURE ROUTE DESCRIPTION

- TAKE-OFF RWY 3L/R: Cross DER at or above 35' AGL/228' MSL, then fly hdg 030°, expect RADAR vectors to intercept BZA VORTAC R-075. Thence...
 - TAKE-OFF RWY 8: Climbing left turn hdg 050° to intercept BZA VORTAC R-075 to WARTT. Thence...
 - TAKE-OFF RWY 17/26: 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 35: Climb direct BZA VORTAC. Thence...
- ...via BZA R-075 to MOHAK INT. Then via assigned route. Maintain assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

MOHAK THREE DEPARTURE (MOHAK3•MOHAK)

YUMA, ARIZONA

YUMA MCAS/YUMA INTL (KNYL)

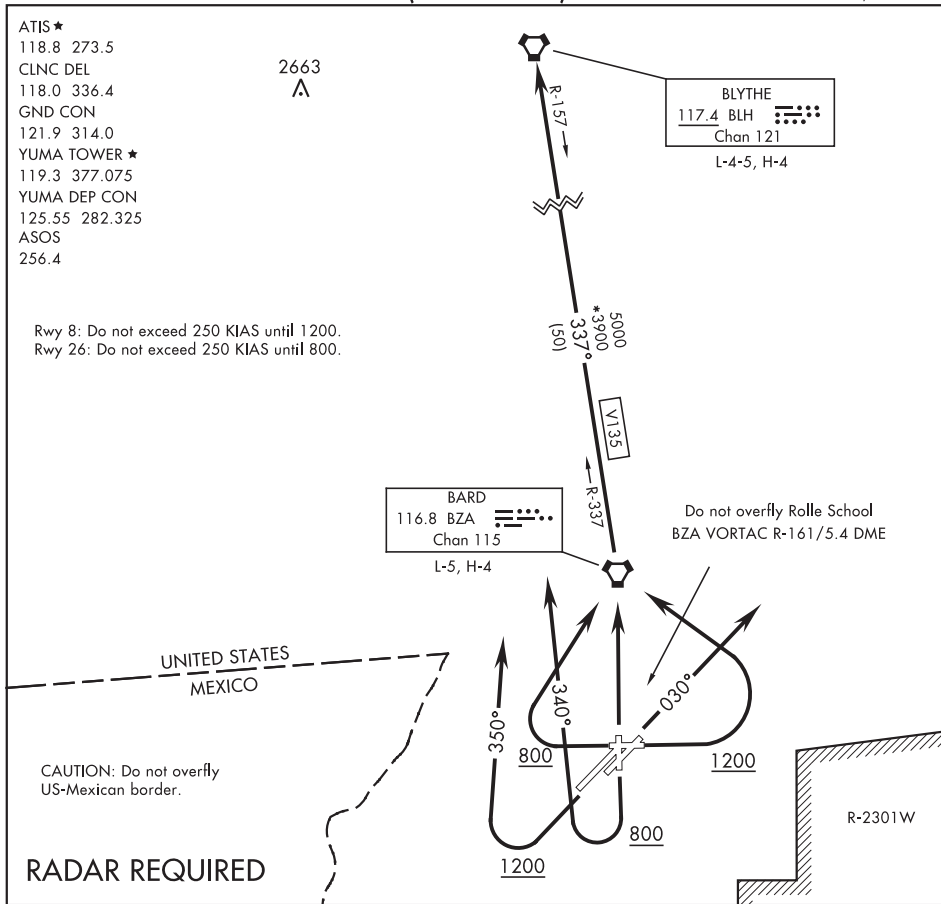
PICACHO THREE DEPARTURE (PICA3 • BLH)

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

2663
 A

Rwy 8: Do not exceed 250 KIAS until 1200.
 Rwy 26: Do not exceed 250 KIAS until 800.



SW-4, 10 NOV 2016 to 05 JAN 2017

SW-4, 10 NOV 2016 to 05 JAN 2017

DEPARTURE ROUTE DESCRIPTION

- TAKE-OFF RWY 3L/R:** Cross DER at or above 35' AGL/228' MSL, fly hdg 030°, expect radar vectors to intercept BZA VORTAC R-337. Thence...
 - TAKE-OFF RWY 8:** Climb to 1200, then climbing left turn direct BZA VORTAC. 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. 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.

PICACHO THREE DEPARTURE (PICA3 • BLH)

YUMA, ARIZONA
 YUMA MCAS/YUMA INTL (KNYL)

INTENTIONALLY

LEFT

BLANK

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS RATE OF CLIMB/DESCENT TABLE

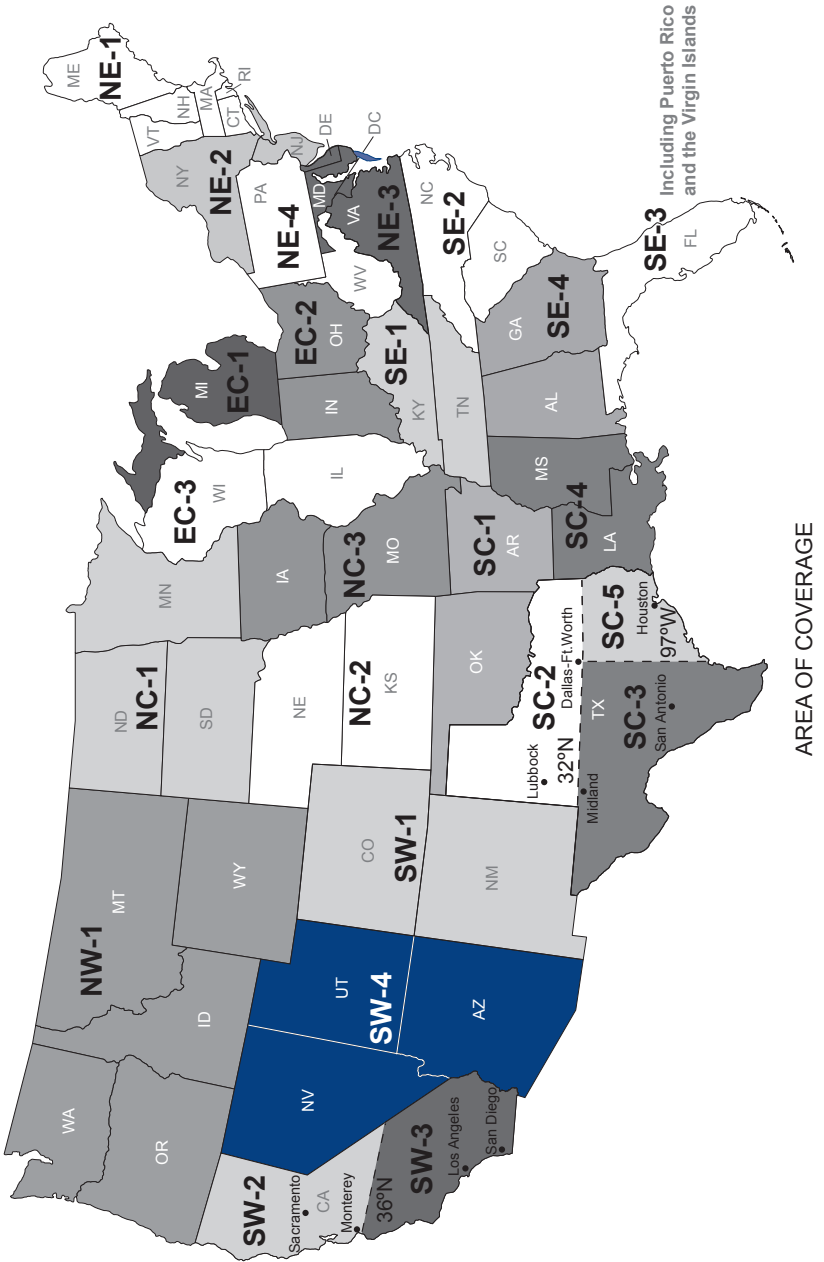
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

	CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)										
			60	90	120	150	180	210	240	270	300	330	360
	2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275
	2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590
VERTICAL PATH ANGLE	2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
	2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
	2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
	3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
	3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
	3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
	3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
	3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
	3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230
	4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550
	4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870
	5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190
	5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510
	6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830
	6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155
	7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475
	7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
	8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125
	8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450
	9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775
	9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100
	10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430

CLIMB/DESCENT TABLE 10042

U.S. TERMINAL PUBLICATION VOLUMES



FAA Product ID: BTPPSW4



NSN 7641015059600

NGA REF. NO. OK-10-2859 TERMXFAABTPPSW4



EFF. DATE 16315