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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA, Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: <http://nfdc.faa.gov/portal/airportchanges.do>

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Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Effective Date	Airport Information	Airspace Information*
	Cut-off date	Cut-off date
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10

*Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

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1305 East West Highway
Silver Spring, MD 20910-3281
Telephone 1-800-626-3677
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at <http://aeronav.faa.gov>.

See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

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Telephone 1-800-638-8972
Fax 301-436-6829
or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dsplcd	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	fit	flight
ATC	Air Traffic Control	flw	follow
Aug	August	Fri	Friday
AUW	All Up Weight (gross weight)	FSS	Flight Service Station
avbl	available	GA	glide angle
bcn	beacon	GCA	Ground Controlled Approach
blo	below	GS	glide slope
		haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invoF	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
lgt	lighted	rstd	restricted
lghts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rw	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MCALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmpry	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather

DIRECTORY LEGEND

SAMPLE

①
CITY NAME

②
AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE

③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER

④ ⑤ ⑥ ⑦ ⑧

⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑

⑲ IAP, DIAP, AD

⑲ → RWY 18-36: H12004X200 (ASPH-CONC-GRVD)
S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL
RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.
Thld displcd 300'. Trees. Rgt tfc. 0.3% up.
RWY 36: ALSF1. 0.4% down.
RWY 09-27: H6000X150 (ASPH) MIRL
RWY 173-353: H3515X150 (ASPH-PFC) AUV PCN 59 F/A/W/T

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT	POINT	DIST	AVBL
RWY 18	09-27		6500	
RWY 36	09-27		5400	

RUNWAY DECLARED DISTANCE INFORMATION

RWY 18:	TORA-12004	TODA-12704	ASDA-11704	LDA-11504
RWY 36:	TORA-12004	TODA-12004	ASDA-12004	LDA-11704

⑳ → ARRESTING GEAR/SYSTEM
RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')
BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

㉑ → MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑳ ㉑

⑳ → FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← ㉑

⑳ OIL O-128 ㉑ TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

㉑ → AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service (ADCUS) avbl.

㉒ → MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15 minutes prior to ldg and after dep. Limited tran parking.

㉓ → WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000, LLWAS.

㉔ → COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2
NAME FSS (ORL) on arpt. 123.65 122.65 122.2
NAME RCO 112.2T 112.1R (NAME RADIO)

Ⓡ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)
TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55
NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

㉕ → AIRSPACE: CLASS B See VFR Terminal Area Chart.

㉖ → RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.
(H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.
(H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.
HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.
ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.
ASR/PAR (1200-0400Z†)

㉗ → COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)

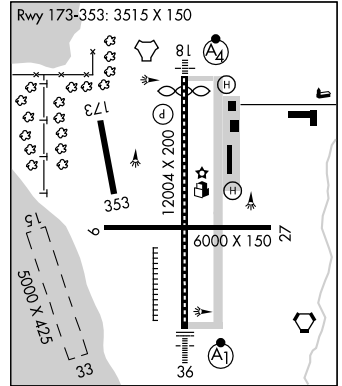
HELIPAD H2: H60X60 (ASPH)

HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)

WATERWAY 15-33: 5000X425 (WATER)

SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10

SKETCH LEGEND

RUNWAYS/LANDING AREAS

- Hard Surfaced
- Metal Surface
- Sod, Gravel, etc.
- Light Plane,
- Ski Landing Area or Water Under Construction
- Closed
- Helicopter Landings Area
- Displaced Threshold
- Taxiway, Apron and Stopways

MISCELLANEOUS BASE AND CULTURAL FEATURES

- Buildings
- Power Lines
- Fence
- Towers
- Tanks
- Oil Well
- Smoke Stack
- Obstruction
- Controlling Obstruction
- Trees
- Populated Places
- Cuts and Fills
- Cliffs and Depressions
- Ditch
- Hill

RADIO AIDS TO NAVIGATION

- VORTAC
- VOR
- VOR/DME
- NDB
- TACAN
- NDB/DME

MISCELLANEOUS AERONAUTICAL FEATURES

- Airport Beacon
- Wind Cone
- Landing Tee
- Tetrahedron
- Control Tower

APPROACH LIGHTING SYSTEMS

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

- Runway Centerline Lighting
- (A) Approach Lighting System ALSF-2
- (A1) Approach Lighting System ALSF-1
- (A2) Short Approach Lighting System SALS/SALSF
- (A3) Simplified Short Approach Lighting System (SSALR) with RAIL
- (A4) Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF)
- (A5) Medium Intensity Approach Lighting System (MALSR) and RAIL
- (V) Omnidirectional Approach Lighting System (ODALS)
- (D) Navy Parallel Row and Cross Bar
- (F) Air Force Overrun
- (V) Visual Approach Slope Indicator with Standard Threshold Clearance provided
- (V2) Pulsating Visual Approach Slope Indicator (PVASI)
- (V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft
- (V4) Tri-color Visual Approach Slope Indicator (TRCV)
- (V5) Approach Path Alignment Panel (APAP)
- (P) Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Nav aids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARRG	US Army National Guard	P	US Civil Airport Wherein Permit Covers Use by Transient Military Aircraft
CG	US Coast Guard	PVT	Private Use Only (Closed to the Public)
CIV/MIL	Joint Use Civil/Military		
DND	Department of National Defense Canada		

⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

11 ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "--" sign will precede the figure.

12 ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

13 SERVICING—CIVIL

- S1: Minor airframe repairs.
- S2: Minor airframe and minor powerplant repairs.
- S3: Major airframe and minor powerplant repairs.
- S4: Major airframe and major powerplant repairs.
- S5: Major airframe repairs.
- S6: Minor airframe and major powerplant repairs.
- S7: Major powerplant repairs.
- S8: Minor powerplant repairs.

14 FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP-4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP-5 military specification) Kerosene with FS-11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS-II*, FP** minus 40° C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP-8.
A+	Jet A, Kerosene, with FS-II*, FP** minus 40°C.	J	(Jet Fuel Type Unknown)
A1	Jet A-1, Kerosene, without FS-II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A-1, Kerosene with FS-II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS-II*, FP** minus 50° C.		

*(Fuel System Icing Inhibitor)

** (Freeze Point)

NOTE: Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

- OX 1 High Pressure
- OX 2 Low Pressure
- OX 3 High Pressure—Replacement Bottles
- OX 4 Low Pressure—Replacement Bottles

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

18 CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS
AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

14 CFR—PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
A	1	<90'	≥ 1	500#DC or HALON 1211 or 450#DC + 100 gal H ₂ O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥ 5 ----- <5	Index A + 1500 gal H ₂ O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥ 5 ----- <5	Index A + 3000 gal H ₂ O
D	3	≥159', <200' ----- >200'	<5	Index A + 4000 gal H ₂ O
E	3	≥200'	≥ 5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

- | | | |
|-------------------------------------|---|--------------------------------------|
| (AFSC)—Aggregate friction seal coat | (GRVL)—Gravel, or cinders | (PSP)—Pierced steel plank |
| (ASPH)—Asphalt | (MATS)—Pierced steel planking,
landing mats, membranes | (RFSC)—Rubberized friction seal coat |
| (CONC)—Concrete | (PEM)—Part concrete, part asphalt | (TURF)—Turf |
| (DIRT)—Dirt | (PFC)—Porous friction courses | (TRTD)—Treated |
| (GRVD)—Grooved | | (WC)—Wire combed |

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g., PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R — Rigid
 - F — Flexible
- (3) The pavement subgrade category:
 - A — High
 - B — Medium
 - C — Low
 - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
 - W — High, no limit
 - X — Medium, limited to 217 psi
 - Y — Low, limited to 145 psi
 - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
 - T — Technical evaluation
 - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.			
PNIL	APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precision Approach Path Indicator			
P2L	2-identical light units placed on left side of runway	P4L	4-identical light units placed on left side of runway
P2R	2-identical light units placed on right side of runway	P4R	4-identical light units placed on right side of runway
PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.			
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI—Simplified Abbreviated Visual Approach Slope Indicator			
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway
TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.			
TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visual Approach Slope Indicator			
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

<u>Key Mike</u>	<u>Function</u>
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)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

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.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire

AIR STARTING UNITS

AM32-95 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
 AM32A-95 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
 LASS 150 +/- 5 lb/min @ 49 +/- 2 psia
 MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
 MC-1 15 cfm, 3500 psia
 MC-1A 15 cfm, 3500 psia
 MC-2A 15 cfm, 200 psia
 MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen
 DC: 28v, 700 amp
 AIR: 60 lb/min @ 40 psig @ sea level
 AM32A-60* AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva
 DC: 28v, 500 amp, 15 kw
 AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire
 DC: 28v, 200 amp, 5.6 kw
 AM32A-60B* AIR: 130 lb/min, 50 psia
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire
 DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;
 AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
 NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v;
 AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi.
 MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.
 WELLS AIR START SYSTEM 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.

JASU (ARMY)

59B2-1B 28v, 7.5 kw, 280 amp.

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase
 CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase
 CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
 CE15 DC 22-35v, 500 amp continuous 1100 amp intermittent
 CE16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp
 AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
 C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
 E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
 MA-1 150 Air HP, 115 lb/min 50 psia
 MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF

25 FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY**CODE**

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).
OXYGEN:	
LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
OXRB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
0-113	1065, Reciprocating Engine Oil (MIL-L-6082)
0-117	1100, Reciprocating Engine Oil (MIL-L-6082)
0-117+	1100, 0-117 plus cyclohexanone (MIL-L-6082)
0-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
0-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
0-132	1005, Jet Engine Oil (MIL-L-6081)
0-133	1010, Jet Engine Oil (MIL-L-6081)
0-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
0-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
0-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
0-155	None, MIL-L-6086C, Aircraft, Medium Grade
0-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turbohaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol **(R)** indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z+" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

(33) AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc **APP CON** other times CLASS E:

or

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc **APP CON** other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

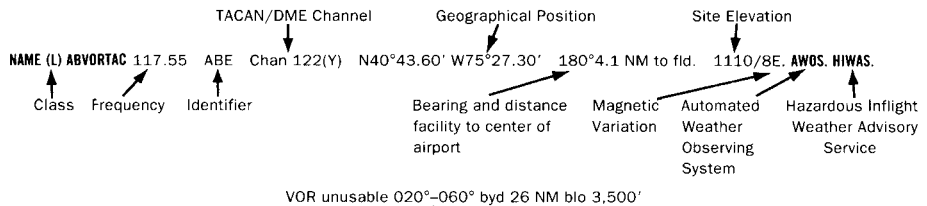
Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

34 RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDS.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information.

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETS and urgent PIREPs. HIWAS is presently broadcast over selected VOR's throughout the U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance (NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.

ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.
 ILS Facility Performance
 Classification Code

FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

AKRON

COLORADO PLAINS RGNL (AKO) 1 N UTC-7(-6DT) N40°10.54' W103°13.32'

CHEYENNE
H-5A, L-10G
IAP

4714 B S4 FUEL 100LL, JET A1 Class IV, ARFF Index A. NOTAM FILE AKO

RWY 11-29: H7000X100 (ASPH) S-65, D-85, DT-125 MIRL 0.6% up NW.

RWY 11: REIL. PAPI (P2L)—GA 3.0° TCH 40'.

RWY 29: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended 1500-0000Z. For fuel when arpt unattended call 970-345-2397. CLOSED to air carrier ops with more than 30 passenger seats except 24 hr PPR. Extensive crop spraying ops in the area Apr-Oct. ACTIVATE MIRL Rwy 11-29—CTAF.

WEATHER DATA SOURCES: ASOS 135.475 (970) 345-2320.

COMMUNICATIONS: CTAF/UNICOM 122.8

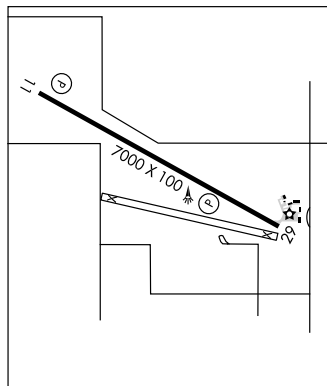
RCD 120.675 (DENVER RADIO)

DENVER CENTER APP/DEP CON 133.95

RADIO AIDS TO NAVIGATION: NOTAM FILE AKO.

(H) VORW/DME 114.4 AKO Chan 91 N40°09.33'

W103°10.79' 289° 2.3 NM to fld. 4620/13E.



GEBAUER (5V6) 8 NE UTC-7(-6DT) N40°14.67' W103°05.61'

CHEYENNE

4509 NOTAM FILE DEN

RWY 08-26: 3000X70 (TURF-GRVL)

RWY 08: Road.

RWY 11-29: 2150X70 (TURF-GRVL)

RWY 11: Road.

AIRPORT REMARKS: Unattended. Rwy 08-26 and Rwy 11-29 soft when wet and rough. Ctc arpt manager for current fld conditions 970-345-2482 or 970-345-2455. Rwy 11 has 6' berm on rwy edge, right side, 800' from rwy end.

Farm equipment 15' from rwy edge in various places on right side.

COMMUNICATIONS: CTAF 122.9

AKRON N40°09.33' W103°10.79' NOTAM FILE AKO.

CHEYENNE

(H) VORW/DME 114.4 AKO Chan 91 289° 2.3 NM to Colorado Plains Rgnl. 4620/13E.

H-5A, L-10G

DME portion unusable 214°-224° byd 15 NM blo 7,500'.

RCD 120.675 (DENVER RADIO)

ALAMOSA N37°20.95' W105°48.93' NOTAM FILE ALS.

DENVER

(H) VORTACW 113.9 ALS Chan 86 322° 5.7 NM to San Luis Valley Rgnl/Bergman Fld. 7535/13E.

H-5A, L-8J, 9E

VORTAC unusable 025°-045° beyond 25 NM below 15,900' 150°-180° beyond 35 NM below 11,600'

RCD 122.15 (DENVER RADIO)

ALAMOSA**SAN LUIS VALLEY RGNL/BERGMAN FLD** (ALS) 2 S UTC-7(-6DT)DENVER
H-3E, 5A, L-8J, 9E
IAP

N37°26.10' W105°51.99'

7539 B S4 FUEL 100LL, JET A OX 3, 4 Class I, ARFF Index A NOTAM FILE ALS

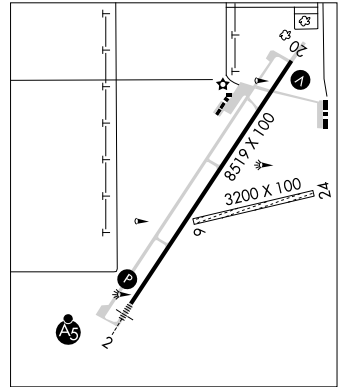
RWY 02-20: H8519X100 (ASPH-GRVD) S-52, D-70, ST-89 HIRL**RWY 02:** MALSR. PAPI(P4L)—GA 3.0° TCH 48'.**RWY 20:** REIL. VASI(V4L)—GA 3.0° TCH 52'. Tree.**RWY 06-24:** 3200X100 (DIRT)**RUNWAY DECLARED DISTANCE INFORMATION****RWY 02:** TORA-8519 TODA-8519 ASDA-8519 LDA-8519**RWY 06:** TORA-3200 TODA-3200 ASDA-3200 LDA-3200**RWY 20:** TORA-8519 TODA-8519 ASDA-8519 LDA-8519**RWY 24:** TORA-3200 TODA-3200 ASDA-3200 LDA-3200**AIRPORT REMARKS:** Attended daylight hours. Be alert, intensive USAF student training invov Colorado Springs and Pueblo Colorado. PPR for air carrier operations with more than 30 passenger seats call arpt manager 719-580-6444. Rwy 06-24 for light acft only. 893' paved blastpad Rwy 02. ACTIVATE HIRL Rwy 02-20, MALSR Rwy 02, PAPI Rwy 20, REIL Rwy 20 and VASI Rwy 20—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.**WEATHER DATA SOURCES:** ASOS 135.175 (719) 589-5669.**COMMUNICATIONS:** CTAF/UNICOM 122.8

ALAMOSA RCO 122.15 (DENVER RADIO)

DENVER CENTER APP/DEP CON 128.375

AIRSPACE: CLASS E svc Mon-Fri 1245-0200Z†, Sat and Sun 1430-0200Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ALS.**ALAMOSA (H) VORTACW** 113.9 ALS Chan 86 N37°20.95' W105°48.93' 322° 5.7 NM to fld. 7535/13E.

ILS 111.9 I-VQR Rwy 02. Class IE. ILS unmonitored.

**ANIMAS AIR PARK** (See DURANGO)**ARUBA** N38°17.45' W104°21.30' NOTAM FILE PUB.DENVER
L-10F

NDB (MHW/LOM) 373 TF 258° 6.7 NM to Pueblo Mem.

ASPEN—PITKIN CO/SARDY FLD (ASE) 3 NW UTC-7(-6DT) N39°13.39' W106°52.13'
 7820 B S2 FUEL 100LL, JET A1 + OX 3 TPA—See Remarks Class I, ARFF Index B
 NOTAM FILE ASE

DENVER
 H-3E, L-9E
 IAP, AD

RWY 15-33: H7006X100 (ASPH-GRVD) S-75, D-100,
 DT-175 MIRL 2.0% up SE

RWY 15: MALSF. PAPI(P4L)—GA 3.5° TCH 57'.

RWY 33: REIL. Road. Rgt tfc.

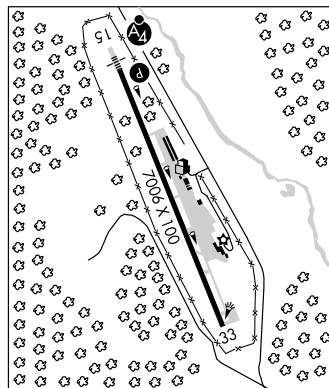
RUNWAY DECLARED DISTANCE INFORMATION

RWY 15: TORA-7006 TODA-7006 ASDA-7006 LDA-7006

RWY 33: TORA-7006 TODA-7006 ASDA-7006 LDA-7006

AIRPORT REMARKS: Attended 1400-0600Z‡. Airport CLOSED

0600-1400Z‡. Hang gliders, para gliders, hot air balloons and glider operations on and in vicinity of arpt up to 18,000' MSL. Arpt located in high mountain valley with mountainous terrain from 12,500'-14,000' MSL in near proximity to arpt, numerous unlighted obstructions. All adverse weather situations magnified in mountains. Ops during periods of reduced visibility discouraged for pilots unfamiliar with area. Unless ceilings are at least 2000' above highest terrain and visibility is 15 miles or more, mountain flying is not recommended. Due to high apch minimums pilots may need an IFR alternate even though weather is forecast to be higher than 2000'-3,000'. Terrain will not allow for normal tfc patterns. High rates of descent may be required due to terrain and local procedures. Unique VFR dep procedures exist, call arpt manager 970-920-5384, or FBO 970-920-2016 for more information. FBO requires 4 hours advance notice for staging acft prior to departure. Noise abatement required—fly ATC assigned heading or standard dep procedure in effect, ctc arpt manager 970-920-5384. If no heading or dep procedure is assigned; turn right noise abatement heading of 360° for 2 miles before proceeding on course. Noise abatement procedures in effect, ctc arpt manager 970-920-5384. For all general aviation ops between 30 minutes after sunset to 0600Z‡ the following applies: acft equipped as required under FAR 91.205(D) for instrument flight—pilot is instrument rated; VFR pilot-in-command has completed at least one tcf or ldg in the preceding 12 months at ASE. IFR: execute apch/dep procedures with ATC clearance. Stage II/III acft only from 1400Z‡ to 30 minutes after sunset by county ordinance. Stage III acft only from 30 minutes after sunset to 0600Z‡. No departures after 0530Z‡. All Stage 1 acft ops prohibited; violators will be prosecuted. Acft requiring IFR should file flight plan with flight service 45 minutes prior to estimated dep. Tcf not authorized on Rwy 15 without written permission from arpt manager. Review of airplane performance recommended including density altitude, weight and balance and climb performance. Ops during periods of reduced visibility discouraged for pilots unfamiliar with area. Due to poor visibility in valley, use landing lights in tfc pattern. TPA for light acft 9005(1185), for heavy acft 9505(1685). Ldg fee. Uncontrolled tfc on the ramps. Rwy 33 run-up area not visible from twr. Rwy 15 PAPI unusable byd 4 NM from rwy thd and byd 7° rgt of rwy centerline. Bcn lgts ops dusk-0600Z‡. When twr clsd ACTIVATE MALSF Rwy 15, PAPI Rwy 15 and REIL Rwy 33—CTAF.



WEATHER DATA SOURCES: ASOS (970) 925-9168. LAWRS.

COMMUNICATIONS: CTAF 118.85 ATIS 120.4 UNICOM 122.95

Ⓡ ASPEN APP/DEP CON 123.8 (1400-0300Z‡)

Ⓡ DENVER CENTER APP/DEP CON 125.35 (0300-1400Z‡)

TOWER 118.85 (1400-0500Z‡) GND CON 121.9 CLNC DEL 123.75

AIRSPACE: CLASS D svc 1400-0500Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

RED TALE (H) VORW/DME 113.0 DBL Chan 77 N39°26.36' W106°53.68' 163° 13.0 NM to fld.
 11800/12E.

ILS/DME 111.15 I-ASE Chan 48(Y) Rwy 15. (LOC only). LOC unusable byd 25° left and right of course, byd 14 NM blo 12,500'. DME unusable byd 25° left and right of course, byd 14 NM blo 12,500'.

COMM/NAV/WEATHER REMARKS: Primary radar not avbl. Radar traffic advisories and services available for transponder equipped acft only. LDA 108.5 I-PKN available for missed approach/departures only. LDA unmonitored when twr clsd.

BADGER MOUNTAIN N39°02.93' W105°30.73'
 RCO 122.2 (DENVER RADIO)

DENVER
 L-10F

BALD MOUNTAIN 7BM N38°47.95' W106°13.01'/9825.
 AWOS-3 132.05 303-512-4919.

DENVER
 L-9E

BATTEN N40°31.92' W103°13.81' NOTAM FILE DEN.
 NDB (MHW) 392 BAJ 331° 5.2 NM to Sterling Muni.

CHEYENNE
 L-10G

BLACK FOREST N38°56.67' W104°38.01' NOTAM FILE DEN.

DENVER

(L) **VORTACW** 112.5 BRK Chan 72 188° 8.9 NM to City of Colorado Springs Muni. 6934/13E. H-3E, 5A, L-10F

VORTAC unusable

100°-115° byd 25 NM blo 9,000'

VOR unusable:

300°-040° byd 10 NM

RCO 122.25 (DENVER RADIO)

BLAKE FLD (See DELTA)**BLANCA** (Ø5V) 3 SW UTC-7(-6DT) N37°24.67' W105°33.10'

DENVER

7720 NOTAM FILE DEN

RWY 03-21: 6160X52 (DIRT)

RWY 03: Road. RWY 21: Road.

AIRPORT REMARKS: Unattended. Unlimited vehicle access to field, wildlife on and invof arpt. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Rwy 03-21 soft when wet. Rwy 03-21 low center. Rwy 03-21 1 to 2' vegetation both sides of rwy full length. Rwy 03-21 has 6 to 12" dirt windows along both sides full length. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF 122.9**BLUE MESA** N38°27.13' W107°02.39' NOTAM FILE DEN.

DENVER

(H) **VORW/DME** 114.9 HBU Chan 96 032° 7.0 NM to Gunnison-Crested Butte Rgnl. 8730/14E. H-3E, L-9E

DME portion unusable 315°-325° byd 27 NM blo 17,500'.

RCO 122.55 (DENVER RADIO)

BOULDER MUNI (BDU) 3 NE UTC-7(-6DT) N40°02.37' W105°13.55'

CHEYENNE

5288 B S4 **FUEL** 100LL, JET A TPA-6300 (1012) NOTAM FILE DEN

L-10F, A

RWY 08-26: H4100X75 (ASPH) S-16 MIRL

RWY 26: VASI(V4L)—GA 3.5' TCH 40'. Road. Rgt tfc.

RWY 08G-26G: 4100X20 (ASPH-TURF)

RWY 08G: Thld dspcd 200'. Trees.

RWY 26G: Rgt tfc.

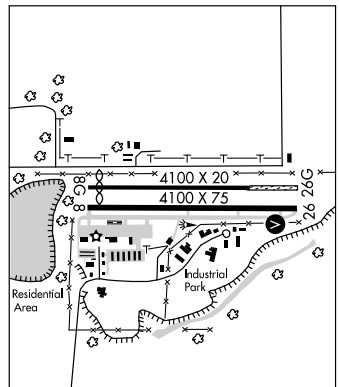
RUNWAY DECLARED DISTANCE INFORMATION

RWY 08: TORA-4100 TODA-4100 ASDA-4100 LDA-3900

RWY 26: TORA-4100 TODA-4100 ASDA-3900 LDA-3900

AIRPORT REMARKS: Attended 1500-0000Z±. Parachute Jumping.

Waterfowl on and invof arpt. 24 hr self serve 100LL avbl. Rwy 08G-26G for glider use only, 197' separation centerline to centerline. Caution glider ops as close as 60' parallel to Rwy 08-26. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Hayden Lake located 250' from Rwy 08 and Rwy 08G thresholds. Rwy 08 and Rwy 08G 25 ft to 55 ft trees outline Hayden Lake as close as 200' from Rwy 08G thld. Rwy 08-26 TPA (1012' AGL) (6300' MSL. Simultaneous apchs to and depts from, Rwy 08-26 and Rwy 08G-26G are prohibited. Power acct yeild right of way to gliders on final or initiate a go-around for adequate spacing. Rwy 08 dep no turn blo (512' AGL) 5800' MSL. Rwy 08 preferred under lgt wind conditions. During west wind conditions expect severe wind turbulence approaching and departing Rwy 26. Noise abatement procedures in effect, call arpt manager 303-441-3108 or <http://www.bouldercolorado.gov/airport>. Rwy 26 has 300' safety area outlined with red reflectors. 130' dropoff east of marked area. **ACTIVATE** MIRL Rwy 08-26 and VASI Rwy 26—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 118.825 (303) 541-9540.**COMMUNICATIONS:** CTAF/UNICOM 122.725**RADIO AIDS TO NAVIGATION:** NOTAM FILE BJC.JEFFCO (H) **VORW/DME** 115.4 BJC Chan 101 N39°54.78' W105°08.34' 321° 8.6 NM to fld. 5728/11E.

BRUSH MUNI (7V5) 3 E UTC-7(-6DT) N40°15.86' W103°34.54' **CHEYENNE**
 4280 **FUEL** A NOTAM FILE DEN **L-10F**
RWY 07-25: H4300X60 (ASPH) S-6 LIRL (NSTD)
RWY 07: Trees. **RWY 25:** Ground.
AIRPORT REMARKS: Attended irregularly. For svc call 970-842-5279 or 970-842-5777. Parachute Jumping. Unlighted 320' twr 3 miles east of arpt. High tension powerlines within 1 mile S of arpt. Be alert, intensive USAF student training in/ovf Colorado Springs and Pueblo Colorado. Rwy 25 lgtd thld relocated 195' for ngt ops. Rwy 07-25 one thld light each rwy side both ends. Rwy 25 thld markings begin 195' W of pavement end. Rwy 07-25 NSTD LIRL, one thld lgt each side of rwy both ends. **ACTIVATE** NTSD LIRL Rwy 07-25 5 times on and 8 times off—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE AKO.
AKRON (H) VORW/DME 114.4 AKO Chan 91 N40°09.33' W103°10.79' 277° 19.3 NM to fld. 4620/13E.

BUCKLEY AFB (BKF)(KBKF) ANG (A AF ARNG N MC) ON UTC-7(-6DT) N39°42.10' W104°45.10' **DENVER**
 5662 B TPA—See Remarks Class I, ARFF Index Ltd. NOTAM FILE DEN **H-3E, 5A, L-10F, A**
RWY 14-32: H11000X150 (PEM) PCN 40 R/B/W/T HIRL **DIAP, AD**
RWY 14: REIL. PAPI(P4L). 0.7% up. **RWY 32:** ALSF1. PAPI(P4L).
ARRESTING GEAR
RWY 14 ←HOOK E5 (116' OVRN) HOOK BAK-12B(B) (1500')

HOOK BAK-12B(B) (1500') HOOK E5 (116' OVRN) →**RWY 32**

MILITARY SERVICE: **LGT** Rwy 32 ILS Glide Slope Runway Point of Intercept and PAPI GS Runway Reference Point not coincidental. **A-GEAR** E5 cables on apch end are connected at all times. Rwy 14-32 BAK-12B connected at all times, usable rwy between cables is 8000'. Due to high probability of hook skip, E5 at departure ends of Rwy 14-32 are not recommended for engagement. Operators use at own risk. Consider use of BAK 12 at apch ends of Rwy 14-32. **JASU** 9(A/M32A-86) 3(AM32A-60A) 6(AM32A-60B) 6(AM32A-95) **FUEL** Avbl Sun-Mon 1500-2200Z‡, Tue-Sat 1330-0130Z‡. J8. **FLUID** SP PRESAIR LOX LHOX. De-ice avbl.
OIL 0-148 SOAP. Avbl Tue-Fri 1315-0000Z‡ excluding holidays. PPR.

MILITARY REMARKS: Opr Tue-Sat 1330-0530Z‡, Sun-Mon 1500-2300Z‡. See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** PPR, ctc Base OPS DSN 847-9650, C720-847-9650, 140th Air National Guard OPS, DSN 847-9470. Tran acft may be req to fly straight-in full stop. C5, C-17, KC10, F4, EA6, F14 acft start run-up 300' down rwy prior to txf to prevent asphalt and lgt system damage. Large/heavy acft req u-turn on rwy, make left turns at rwy end on the concrete portion. Avoid over flight radar domes NW Rwy 14-32. Aerodrome limited to wing assigned F16 alert acft only from Tues-Sat 0530-1330Z‡, and Sun and Mon 2300-1500Z‡. When local F-16s are opr in the arm-dearm area, tran acft larger than fighter size will park on the east ramp. For normal day to day ops, larger acft can be held on twys B, K, or M waiting for the F-16s to clear the area. **CAUTION** Friction tests indicate potentially haz condition at the touchdown areas of Rwy 32 and Rwy 14 during wet condition due to low friction, especially rgt of center. The haz areas slow up at 1000-2500' from the thld. Hi mid-air collision potential, extreme vigilance rqr. Phase II wildlife activity during migration/morning/evening hrs and winter months. Ctc ATIS or PTD for current conditions. Possible crosswind hazard Rwy 14-32. Unlgtd fence around afld. Heavy commercial tfc on Denver Intl Rwy 35 ILS course between 6500' and 12000' 2 NM east of Buckley. Heavy uncontrolled general aviation VFR tfc from Centennial 9 NM southwest. Tfc is concentrated from sfc to 10000' south, southeast and east of Buckley Class D Airspace. Ldg illusion exists on short final Rwy 14. Terrain rises short of thld then descends for 2000' creating illusion of acft being hi on final and excessive ground rush. Unlighted obstruction southwest of Rwy 32. Unlighted fence around afld. Extra caution should be used during ngt ldg. Avoid over flight of firing range located 890' left of centerline and 1 NM at apch end Rwy 32 when red bcn is on or red flag is displayed. **TFC PAT** Rwy 32 left tfc, Rwy 14 rgt tfc, overhead 7200(1538). Fighter acft expect clsd tfc and overhead pattern east of Buckley for noise avoidance. **MISC** First 1700' Rwy 14, first 1700' Rwy 32 concrete, middle 7600' Rwy 14-32 asphalt. Protocol, except priority refueling, not avbl. Four engine acft if able, shut down or idle outbound engine prior to taxi after ldg for Foreign Object Damage Control. Afld management does not issue or store COMSEC. **ARNG** Blackjack Ops DSN 250-1623/20 C720-250-1623/20.

COMMUNICATIONS: ATIS 119.675 259.3 **PTD** 372.2

Ⓡ **DENVER APP/DEP CON** 128.45 251.075

TOWER 121.0 291.675 (Tue-Sat 1330-0530Z‡, Sun-Mon 1500-2300Z‡) **GND CON/CLNC DEL** 121.6 275.8

PMSV METRO 228.45

BLACKJACK XRAY 46.90 149.1 308.1

AIRSPACE: CLASS D svc Tue-Sat 1330-0530Z‡, Sun-Mon 1500-2300Z‡ other times Class E.

RADIO AIDS TO NAVIGATION: NOTAM FILE BKF.

BUCKLEY (L) TACAN Chan 33 BKF (109.6) N39°42.44' W104°45.13' at fld. 5580/12E. No NOTAM MP Mon 1500-1700Z‡. Unmonitored 0530-1330Z‡.

ILS 109.7 I-BKF Rwy 32 Class IE. No NOTAM MP: Tue 1500-1700Z‡, GS Wed 1500-1700Z‡.

BUENA VISTA**CENTRAL COLORADO RGNL** (AEJ) 2 S UTC-7(-6DT) N38°48.85' W106°07.24'**DENVER**
H-3E, 5A, L-9E
IAP

7946 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE DEN

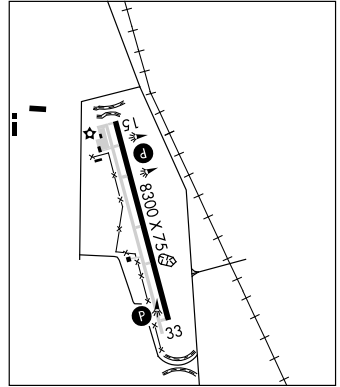
RWY 15-33: H8300X75 (ASPH) S-30, D-30 MIRL

RWY 15: PAPI(P2L)—GA 3.0° TCH 41'. Rgt tfc.

RWY 33: PAPI(P2L)—GA 3.0° TCH 40'. 0.7% up.

AIRPORT REMARKS: Attended 1500-0000Z†. For svc after hrs call 719-839-0422. Deer on and in vicinity of arpt. All taxiways marked with blue/yellow reflectors. -3' drainage ditch 170' E of Rwy 15-33 centerline, full length. ACTIVATE MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33—CTAF.**WEATHER DATA SOURCES:** AWOS-3 132.925 (719) 395-2599.**COMMUNICATIONS:** CTAF/UNICOM 122.8

DENVER CENTER APP/DEP CON 119.85

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.**BLUE MESA (H) VOR/DME** 114.9 HBU Chan 96 N38°27.13' W107°02.39' 049° 48.4 NM to fld. 8730/14E.**BUFFS** N40°20.08' W104°37.57' NOTAM FILE DEN.**CHEYENNE**

NDB (LOM) 348 DC 346° 6.2 NM to Greeley-Weld Co.

BURLINGTON**KIT CARSON CO** (ITR) 3 S UTC-7(-6DT) N39°14.55' W102°17.12'**WICHITA**
H-5A, L-10G
IAP

4219 B S4 FUEL 100LL, JET A1+ OX 3, 4 NOTAM FILE ITR

RWY 15-33: H5201X75 (ASPH) S-17, D-17 MIRL 0.3% up NW

RWY 15: REIL. PAPI(P4L)—GA 3.0° TCH 31'.

RWY 33: REIL. PAPI(P4L)—GA 3.0° TCH 32'.

AIRPORT REMARKS: Attended dalgt hours. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. ACTIVATE MIRL Rwy 15-33 PAPI and REIL Rwy 15 and Rwy 33—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.**WEATHER DATA SOURCES:** ASOS 135.225 (719) 346-7036.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® DENVER CENTER APP/DEP CON 132.5

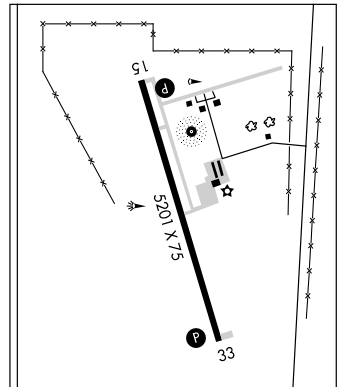
RADIO AIDS TO NAVIGATION: NOTAM FILE GLD.**GOODLAND (H) VORTACW** 115.1 GLD Chan 98 N39°23.27'

W101°41.54' 241° 29.0 NM to fld. 3650/12E. HIWAS.

NDB (MHW) 209 ITR N39°14.78' W102°17.03' at fld. NOTAM FILE ITR. NDB monitored 1330-2330Z† daily.

ILS/DME 111.9 I-OBG Chan 56 Rwy 33. Class IT.

LOC only. LOC monitored 1330-2330Z† daily.



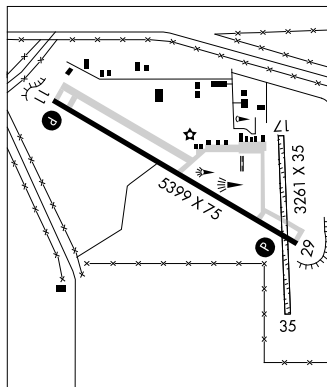
BUTTS AAF (FORT CARSON) (FCS) (KFCS) A 3 S UTC-7(-6DT) N38°40.70' W104°45.39' DENVER
 5838 B TPA—See Remarks NOTAM FILE FCS Not insp. L-10F
 RWY 13-31: H4572X75 (ASPH) PCN 24 F/B/W/T MIRL DIAP
 RWY 04-22: H2700X75 (ASPH)
MILITARY SERVICE: FUEL J8. Opr Mon-Fri 1600-0630Z± except holidays. PPR for transient fuel. J8.
MILITARY REMARKS: Opr continuous except New Years Day, Thanksgiving and Christmas. RSTD PPR DSN
 691-3935/3936, C719-526-3936/3935. 500' orn on NW end of rwy avbl for use by C-12 and smaller acft.
CAUTION Extensive artillery and small arms firing. During periods of strong SW surface winds, expect structure and
 terrain generated turbulence with wind shear near the apch end Rwy 13. **TFC PAT** TPA—Multi engine fixed wing
 NSTD tfc Rwy 13-31 E tfc 7300(1462). All others: rotary wing 6600(762), fixed wing 6800(962).
MISC Automated obs are avbl 24 hrs. Obs are augmented Mon-Fri 1200-0600Z± except holidays (or end of local
 flying). Wx technician (DSN 691-3620, C719-526-3620), avbl Mon-Fri 1200-0600Z± except holidays (or end
 of local flying). Remote weather briefing avbl from 25th OWS DSN 228-6598/6599, C520-228-6598/6599.
COMMUNICATIONS: ATIS 108.8 PTD/OBPS 141.15
SPRINGS APP/DEP CON 124.0 257.875
TOWER 125.5 229.4 239.3 41.50 24 hrs except New Years Day, Thanksgiving and Christmas.
PMSV METRO 44.1 (Wx technician avbl Mon-Fri 1200-0600Z± except holidays (or end of local flying).
FLT FLW 38.55 138.15 (Butts Radio avbl 24 hours except New Years Day, Thanksgiving and Christmas)
AIRSPACE: CLASS D 24 hrs except New Years Day, Thanksgiving and Christmas. Other times CLASS G.
RADIO AIDS TO NAVIGATION: NOTAM FILE FCS.
 (T) VOR/DME 108.8 FCS Chan 25 N38°40.84' W104°45.42' at fld. 5829/12E. VOR unusable 050°-070°
 byd 10 NM blo 15,000'. VOR/DME unusable 230°-305° byd 10 NM blo 15,000'.
IRONHORSE NDB (MHW) 335 IHS N38°40.70' W104°45.20' at fld. Unmonitored Thanksgiving, Dec 25 and
 Jan 1. Unusable 210°-300° byd 20 NM blo 20,000'.

BYERS N39°45.95' W103°55.68' NOTAM FILE DEN. DENVER
 (H) VOR/DME 113.5 BVR Chan 82 269° 34.6 NM to Denver Intl. 5252/10E. H-5A, L-10F

CALHAN (5V4) 1 N UTC-7(-6DT) N39°02.90' W104°17.58' DENVER
 6450 S1 FUEL 100LL, JET A TPA—7250(800) NOTAM FILE DEN
 RWY 17-35: 4565X50 (TURF-GRVL) LIRL (NSTD)
 RWY 17: TRCV(TRIL). Road. RWY 35: Trees. Rgt tfc.
AIRPORT REMARKS: Attended irregularly. Parachute Jumping. Vehicles crossing rwy. Rwy 17-35 width varies from 50'
 to 100'. Rwy 17 first 1250' 45' wide artificial turf. Be alert, intensive USAF student training invof Colorado
 Springs and Pueblo Colorado. Aerobatic practice area 1/2 mile west of Rwy 17-35 300' AGL to 10,000' MSL.
 South end rwy has side slope. -6' ditch 40' west of centerline. Ground raises on east side of rwy. Rwy 17-35
 NSTD LIRL, north 2500' rwy lgtd. ACTIVATE NSTD LIRL Rwy 17-35 and VASI Rwy 17—CTAF. See Special
 Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
COMMUNICATIONS: CTAF/UNICOM 122.725

CANON CITY

FREMONT CO (1V6) 6 E UTC-7(-6DT) N38°25.68' W105°06.35' DENVER
 5439 B S4 FUEL 100LL, JET A OX 1, 2 TPA—6200(761) NOTAM FILE DEN H-3E, 5A, L-10F
 RWY 11-29: H5399X75 (ASPH) S-26, D-26 MIRL 1.1% up NW IAP
 RWY 11: REIL. PAPI(P2R)—GA 3.0°TCH 30'.
 RWY 29: REIL. PAPI(P2L)—GA 3.0°TCH 32'.
 RWY 17-35: 3261X35 (TURF-GRVL) 1.1% up N
 RWY 17: Road. RWY 35: Fence.
AIRPORT REMARKS: Attended 1500-0000Z±. Parachute Jumping. Glider
 towing invof arpt. Glider ops on and invof arpt. Be alert, intensive
 USAF student training invof Colorado Springs and Pueblo
 Colorado. Rwy 17 has a 20' building 66' left of rwy centerline,
 105' remaining from rwy end. 2' terrain W of Rwy 17-35 first 250'
 south of Rwy 11-29. Rwy 17-35 North 1491' grvl, south 1695'
 turf, Rwy 17-35 crosses asph twy and Rwy 11-29. Rwy 17-35
 varies in width from 35' to 45'. Rwy 17-35 prairie dog holes
 throughout. All paved twys marked with blue and white reflectors.
 ACTIVATE MIRL Rwy 11-29, PAPI and REIL Rwy 11 and Rwy
 29—CTAF. See Special Notices—USAF 306 FTG Flight Training
 Areas, Vicinity of Colorado Springs and Pueblo Colorado.
WEATHER DATA SOURCES: AWOS-3 120.025.
COMMUNICATIONS: CTAF/UNICOM 122.8
DENVER APP/DEP CON 120.1 (1300-0500Z±) other times ctc
DENVER CENTER APP/DEP CON 128.375.
RADIO AIDS TO NAVIGATION: NOTAM FILE PUB.
PUEBLO (H) VORTACW 116.7 PUB Chan 114 N38°17.66' W104°25.77' 271° 32.9 NM to fld. 4760/13E.



CASSE N39°27.12' W104°50.75' NOTAM FILE APA.
 NDB (HW/LOM) 260 AP 348° 7.1 NM to Centennial.

DENVER
 L-10F, A

CENTENNIAL (See DENVER)

CENTER

LEACH (1V8) 4 NE UTC-7(-6DT) N37°47.10' W106°02.82'

DENVER
 H-3E, 5A, L-9E

7598 **FUEL** 100LL NOTAM FILE DEN

RWY 12-30: H7000X50 (ASPH) S-12 LIRL

RWY 12: Thld dsplcd 204'. Building. **RWY 30:** PAPI(P2L) Thld dsplcd 1314'. P-line.

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z†, Sat 1500-1900Z†. Rwy 12-30 has +12' sprinklers along both sides of rwy 54' from centerline full length of rwy. Rwy 12 dsplcd thld markings missing. Rwy 12 has 135' nighttime dsplcd thld. ACTIVATE LIRL Rwy 12-30—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE ALS.

ALAMOSA (H) VORTACW 113.9 ALS Chan 86 N37°20.95' W105°48.93' 324° 28.4 NM to fld. 7535/13E.

CENTRAL COLORADO RGNL (See BUENA VISTA)

CITY OF COLORADO SPRINGS MUNI (See COLORADO SPRINGS)

CITY OF LAS ANIMAS-BENT COUNTY (See LAS ANIMAS)

COLLN N40°21.79' W104°58.28' NOTAM FILE FNL.

CHEYENNE

NDB (LOM) 400 FN 332° 5.6 NM to Fort Collins-Loveland Muni.

COLORADO PLAINS RGNL (See AKRON)

COLORADO SPRINGS

CITY OF COLORADO SPRINGS MUNI (COS) 6 SE UTC-7(-6DT) N38°48.35' W104°42.05'

DENVER

6187 B S4 FUEL 100LL, JET A LRA Class I, ARFF Index C NOTAM FILE COS

H-3E, 5A, L-10F

RWY 17L-35R: H13501X150 (CONC-GRVD) S-75, D-175, ST-175, DT-400, DDT-850 HIRL CL IAP, AD

RWY 17L: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 54'. 0.6% down.

RWY 35R: TDZL. REIL. PAPI(P4R)—GA 3.0° TCH 72'. 0.6% up.

RWY 17R-35L: H11022X150 (ASPH-GRVD) S-75, D-175, ST-175, DT-340, DDT-750 HIRL

RWY 17R: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 1.2% down.

RWY 35L: MALSR. PAPI(P4L)—GA 3.0° TCH 73'. 1.2% up.

RWY 12-30: H8269X150 (ASPH-GRVD) S-75, D-175, ST-175, DT-280, DDT-550 MIRL

RWY 12: REIL. PAPI(P4R)—GA 3.0° TCH 65'. 0.3% down.

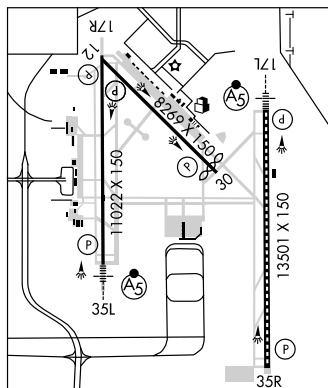
RWY 30: REIL. PAPI(P4L)—GA 3.0° TCH 52'. Thld dspcd 355'. Hill. 0.5% up.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 30	17R-35L	7450
RWY 35L	12-30	10250

RUNWAY DECLARED DISTANCE INFORMATION

RWY 12:	TORA-8269	TODA-8269	ASDA-8269	LDA-8269
RWY 17L:	TORA-13501	TODA-13501	ASDA-13501	LDA-13501
RWY 17R:	TORA-11022	TODA-11022	ASDA-11022	LDA-11022
RWY 30:	TORA-8269	TODA-8269	ASDA-8269	LDA-7913
RWY 35L:	TORA-11022	TODA-11022	ASDA-11022	LDA-11022
RWY 35R:	TORA-13501	TODA-13501	ASDA-13501	LDA-13501



AIRPORT REMARKS: Attended continuously. Waterfowl and migratory bird activity on and in/ovf arpt. Turbo Jet training flights prohibited 0600-1300Z. B52 operations prohibited. Be alert, intensive USAF student training in/ovf Colorado Springs and Pueblo Colorado. Portions of Twys A, B, E, F, G, and M are blocked from view from the twr by obstructions. Portions of Twy C and Rwy 17R-35L are blocked from view from the twr when the infield mil operation sfc is occupied by a C17 or C5. Insufficient twy corner fillets pavement for acct with wingspans over 117' at Twys A2, A3, A4, and Twy B3 and B4. Rwy 17L touch-down runway visual range avbl. Lgtd windsoc apch Rws 17L, 35R, 17R and 35L, 12 and 30. For REIL Rwy 12 and Rwy 30 and Rwy 17R ctc twr. Customs avbl for all military/civilian acct. Ctc US Customs 719-574-6607. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS (719) 637-9696. LLWAS.

COMMUNICATIONS: ATIS 125.0 (719) 596-7040 UNICOM 122.95

BLACK FOREST RCO 122.25 (DENVER RADIO)

Ⓡ SPRINGS APP CON 118.5 120.6

Ⓡ SPRINGS DEP CON 124.0

SPRINGS TOWER 119.9 (West) 133.15 (East) GND CON 121.7 CLNC DEL 134.45

AIRSPACE: CLASS C svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

BLACK FOREST (L) VORTACW 112.5 BRK Chan 72 N38°56.67' W104°38.01' 188° 8.9 NM to fld. 6934/13E.

PETEY NDB (MHW/LOM) 407 CO N38°41.66' W104°42.98' 354° 6.7 NM to fld. NOTAM FILE COS.

ILS 109.9 I-COS Rwy 35L. Class IE. LOM PETEY NDB. LOC unusable byd 25° left of centerline.

LOC unusable byd 8NM 10° left of centerline. TCH is higher than standard.

ILS/DME 109.1 I-LPI Chan 28 Rwy 17L.

ILS/DME 109.1 I-AHI Chan 28 Rwy 35R. Class IE. LOC front course unusable byd 8 NM DME byd 15° left of course due to mil rstd areas.

MEADOW LAKE (ØØV) 14 NE UTC-7(-6DT) N38°56.75' W104°34.19'

DENVER
H-5A, L-10F

6874 B S4 FUEL 100LL NOTAM FILE DEN

RWY 15-33: H6000X60 (ASPH) S-12.5 MIRL

RWY 15: PAPI(P2L)—GA 3.3° TCH 43'. Road.

RWY 33: PAPI(P2L)—GA 3.0° TCH 40'. Rgt tfc.

RWY 08-26: 2084X35 (ASPH-GRVL)

RWY 08: P-lines. Rgt tfc. **RWY 26:** Road.

RWY N-S: 1800X15 (ASPH-TURF)

RWY N: Building. **RWY S:** Road.

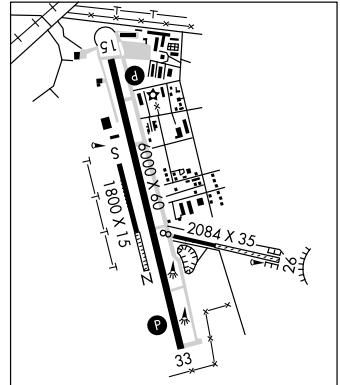
AIRPORT REMARKS: Attended 1500-0000Z±. Wildlife on and in/ov arpt.

Rwy 15-33 CLOSED to acft over 18,500 pounds. Be alert, intensive USAF student training in/ov Colorado Springs and Pueblo Colorado. Rwy 26 +4' fence 50' right of centerline 40' west of thld. Rwy 08-26 primarily used as a twy, emergency rwy use only. Vehicle use across Rwy 08-26, no hold lines on twy at Rwy 08 intersection. Rwy N-S glider use only. Gliders operating SW of Rwy 15-33. Twy E numerous potholes indef. Ultralights operating in vicinity of arpt. PPR for acft over 12,500 pounds gross weight ctc arpt mgr 719-683-2202. Rwy 15 is recommended for tkf, touch and go landings when effective tail wind is less than 5 knots. Rwy 08-26 east 1184' gravel, west 900' asphalt. Rwy 26 has—4' terrain 5' from rwy edge first 100' on both sides. Rwy N-S north 1530' paved with asph. Rwy N end marked with solid yellow line at thld. Rwy 08-26 edge marked with yellow tires. ACTIVATE MIRL Rwy 15-33, PAPI Rwy 15 and Rwy 33—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

BLACK FOREST (L) VORTACW 112.5 BRK Chan 72 N38°56.67' W104°38.01' 076° 3.0 NM to fld. 6930/13E.



COLORADO SPRINGS EAST (See ELLICOTT)

CONES N38°02.42' W108°15.52' NOTAM FILE DEN.

DENVER

(L) **VORW/DME** 110.2 ETL Chan 39 095° 17.4 NM to Telluride Rgnl. 8460/12E. Unmonitored.

L-9E

VOR/DME unusable 078°-090° byd 30 NM, 115°-125° byd 25 NM, 145°-175° byd 25 NM, 350°-360° byd 35 NM.

COPPER MOUNTAIN CCU N39°28.50' W106°09.15'/12075.

DENVER

AWOS-3 118.075 970-968-1715.

L-9E

CORTEZ MUNI (CEZ) 3 SW UTC-7(-6DT) N37°18.18' W108°37.68'

DENVER

5918 B S4 FUEL 100LL, JET A OX 1 Class III, ARFF Index A NOTAM FILE CEZ

H-4I, L-8H, 9D

RWY 03-21: H7205X100 (ASPH-PFC) S-40, D-56 MIRL

IAP

RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 46'. Trees.

RWY 21: REIL. VASI(V4L)—GA 3.0° TCH 50'. Road.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03: TORA-7205 TODA-7205 ASDA-7205 LDA-7205

RWY 21: TORA-7205 TODA-7205 ASDA-7205 LDA-7205

AIRPORT REMARKS: Attended dawn-dusk. PPR for unscheduled air carrier operations with more than 30 passenger seats ctc arpt manager 970-565-7458. Acft greater than 20,000 lbs dual wheel rstd to twy connector A2, back taxi on rwy to and from twy connector A2 to apron. ACTIVATE MIRL Rwy 03-21 and REIL Rwy 03 and Rwy 21—CTAF.

WEATHER DATA SOURCES: ASOS 135.625 (970) 564-0193.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.3 (DENVER RADIO)

DENVER CENTER APP/DEP CON 118.575

AIRSPACE: CLASS E svc 1300-0500Z±, except holidays other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE CEZ.

(L) VORW/DME 108.4 CEZ Chan 21 N37°23.39'

W108°33.71' 197° 6.1 NM to fld. 6223/14E.

VOR unusable:

210°-230° beyond 20 NM below 11,500'.

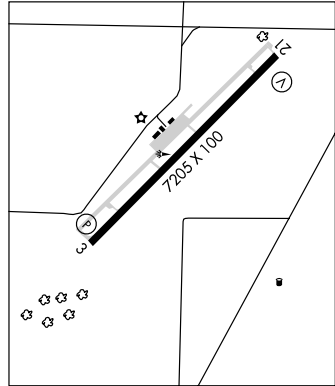
DME unusable:

060°-102° byd 22 NM blo 18,000'.

102°-131° byd 18 NM blo 18,000'.

131°-141° byd 18 NM blo 14,000'.

131°-141° by 32 NM blo 18000'.



141°-174° byd 18 NM blo 18000'

174°-192° byd 22 NM blo 18000'.

209°-025° byd 22 NM blo 18000'.

CRAIG-MOFFAT (CAG) 2 SE UTC-7(-6DT) N40°29.71' W107°31.30'

CHEYENNE

6193 B FUEL 100LL, JET A NOTAM FILE CAG

H-3E, L-9E, 11E

RWY 07-25: H5600X100 (ASPH) S-35, D-40 MIRL

IAP

RWY 07: REIL. P-line.

RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 32'. Road.

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z± Sat-Sun irregularly. Twys marked with blue reflectors. MIRL Rwy 07-25 preset low ints, to increase ints and ACTIVATE MIRL Rwy 07-25, REIL Rwy 07 and Rwy 25, and PAPI Rwy 25—CTAF.

WEATHER DATA SOURCES: ASOS 135.425 (970) 824-2373.

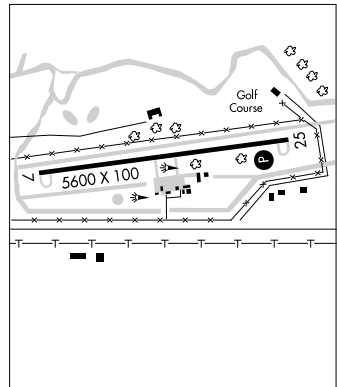
COMMUNICATIONS: CTAF/UNICOM 122.8

DENVER CENTER APP/DEP CON 120.475

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

HAYDEN (H) VORW/DME 115.6 CHE Chan 103 N40°31.21'

W107°18.29' 248° 10.0 NM to fld. 7269/14E.



CRAWFORD (99V) 2 W UTC-7(-6DT) N38°42.25' W107°38.62' DENVER
L-9E
 6470 S2 OX 4 TPA-7470(1000) NOTAM FILE DEN
RWY 07-25: H4900X20 (ASPH) LIRL (NSTD)
RWY 07: VASI (NSTD). Trees. **RWY 25:** VASI (NSTD) Tank. Rgt tfc.
RWY E-W: 2500X125 (TURF)
RWY E: Rgt tfc. **RWY W:** Trees.
AIRPORT REMARKS: Attended continuously. Rwy 07-25 west 1300' only 25' wide. Heavy glider ops at arpt. Land to the east tkf to the west winds permitting. 100LL fuel avbl for emergency use only. Wildlife on and infov arpt. Unlimited vehicle use on arpt. Rwy West has +15' building 170' from thld 30' left, +10' road 100' from thld centerline. +45' tree 100' L of Rwy 07 extended centerline 414' from rwy end. -8' to -20' terrain off both sides of first 674' of Rwy 25 end. E-W rwy occasionally has 6 inch diameter irrigation pipes crossing rwy width in various places. Rwy 07 has 20' trees and -10' to 20' terrain 20' right of rwy first 150'. E-W rwy consists of +12 inch alfalfa vegetation during various times of the year. Arpt lgts opr dusk-0800Z+. Rwy 07 1 box VASI left side for local operators only or PPR call 970-921-7700 or 970-921-3018. Rwy 07-25 LIRL on N side from Rwy 25 end W 3800'. Rwy 07 1300' from end E 300'. No thld lgts Rwy 07-25 3800' usable for ngt ops.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE MTJ.
MONTROSE (H) VORW/DME 117.1 MTJ Chan 118 N38°30.39' W107°53.96' 033° 16.9 NM to fld. 5710/12E.

CREEDE

MINERAL CO MEM (C24) 2 E UTC-7(-6DT) N37°49.33' W106°55.79' DENVER
H-3E, L-9E
 8680 NOTAM FILE DEN
RWY 07-25: H6880X60 (ASPH) S-12.5, D-70, DT-110
RWY 07: Thld dspclcd 188'. **RWY 25:** Road.
AIRPORT REMARKS: Unattended. Elk and deer on and infov arpt. Glider and hang glider activity on and in vicinity of arpt. Mountains in all directions. Departure to NE avoid over flight of trailers and resident homes, climb to 200' above ground level on centerline extended prior to turn. Acft stay to right of valley on apch and/or departure route. 2' cable fence around apron.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
BLUE MESA (H) VORW/DME 114.9 HBU Chan 96 N38°27.13' W107°02.39' 158° 38.1 NM to fld. 8730/14E.

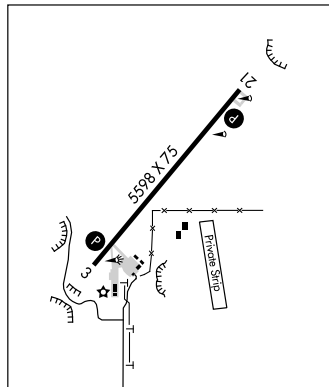
CUCHARA VALLEY AT LA VETA (See LA VETA)

DEL NORTE MUNI & CO (8V1) 3 N UTC-7(-6DT) N37°42.82' W106°21.27' DENVER
L-9E
 7949 NOTAM FILE DEN
RWY 02-20: 6015X60 (TURF-DIRT)
RWY 20: Mountain.
RWY 08-26: H3775X49 (ASPH) S-23 LIRL
RWY 08: Mountain.
AIRPORT REMARKS: Unattended. Wildlife on and infov arpt. CAUTION: Rwy 20 has 10' road 45' left of centerline, +4' fence 75' left of centerline. Rwy 02-20 has 3' dirt windrow along both sides of rwy entire length. Mountainous terrain surrounds arpt in all directions. Rwy 08-26 line of sight both ends obstructed due to rwy slope. Sheep and antelope on and in vicinity of arpt. Rwy 08-26 has +1' reflectors 35' from centerline full length of rwy both sides. Rwy 08-26 LIRL OTS indef. ACTIVATE LIRL Rwy 08-26-CTAF.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE ALS.
ALAMOSA (H) VORTACW 113.9 ALS Chan 86 N37°20.95' W105°48.93' 298° 33.7 NM to fld. 7535/13E.

DELTA

BLAKE FLD (AJZ) 3 N UTC-7(-6DT) N38°47.19' W108°03.82'
 5193 B S4 FUEL 100LL TPA-6200(1007) NOTAM FILE DEN
RWY 03-21: H5598X75 (ASPH) S-30, D-30 MIRL
RWY 03: PAPI(P2L). Rgt tfc. **RWY 21:** PAPI(P2L).
AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z†. 24 hr self serve fuel avbl. After hrs emerg phone Sheriff Department at 970-874-2000/after hrs svc 970-209-0883. Antelope on and in the vicinity of arpt. Rwy 03-21 has 4' bushes 15-20' from rwy edge on both sides in various places. Rwy 03-21 slopes up to the NE. ACTIVATE MIRL Rwy 03-21 and PAPI Rwy 03 and Rwy 21-CTAF.
WEATHER DATA SOURCES: AWOS-3 134.0 (970) 874-3251.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
GRAND JUNCTION (H) VORW/DME 112.4 JNC Chan 71 N39°03.57' W108°47.56' 100° 37.9 NM to fld. 7100/15E.

DENVER
 H-3E, L-9E



WESTWINDS (D17) 4 W UTC-7(-6DT) N38°45.51' W108°08.91'
 5000 NOTAM FILE DEN
RWY 04-22: H4100X40 (ASPH)
RWY 04: Hill. **RWY 22:** Trees.
RWY 13-31: 2000X70 (GRVL-DIRT)
RWY 13: Hill. **RWY 31:** Road.
AIRPORT REMARKS: Attended 1500-0000Z†. +100' to 300' mountains located north, west and east of arpt at varying distances. Rwy 22 has 180' mountain 4900' from rwy end, approach slope 26:1. PAEW on and invof arpt. +2-4' crops on and invof arpt. Wildlife on and in vicinity of arpt. Glider tfc in all area surrounding arpt, heavy tfc May thru Sep.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE MTJ.
MONTROSE (H) VORW/DME 117.1 MTJ Chan 118 N38°30.39' W107°53.96' 310° 19.1 NM to fld. 5710/12E.

DENVER
 L-9E

DENVER

CENTENNIAL (APA) 15 SE UTC-7(-6DT) N39°34.21' W104°50.96'

DENVER

5885 B S4 FUEL 100LL, JET A OX 1, 2 TPA-6885(1000) NOTAM FILE APA

H-3E, 5A, L-10F, A

RWY 17L-35R: H10002X100 (ASPH-GRVD) S-56, D-75, ST-95 MIRL

IAP, AD

RWY 17L: PAPI(P4L)—GA 3.0° TCH 50'. 1.0% up.

RWY 35R: MALSR. PAPI(P4L)—GA 3.0° TCH 53'. Building, Rgt tfc.
0.8% down.

RWY 17R-35L: H7000X77 (ASPH-GRVD) S-30 MIRL 0.9% up S

RWY 17R: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Rgt tfc.

RWY 35L: REIL. PAPI(P4R)—GA 3.0° TCH 52'. Ground.

RWY 10-28: H4800X75 (ASPH) S-12.5 MIRL 0.6% up W

RWY 28: REIL. PAPI(P2L)—GA 4.0° TCH 28'. Ground.

AIRPORT REMARKS: Attended continuously. Self serve fuel avbl.

Waterfowl on and in vicinity of arpt. Numerous cranes invof arpt.

Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. +109' twr located 1800' east/northeast of Rwy 17L thld. Numerous flood lgts located ½ mile north of thld

Rwy 17L SS-0700Z†. Rwy distance marker signs on Rwy 17L-35R

and Rwy 10-28. Rwy 10 temporarily CLOSED for arrivals, avbl

upon req ctc twr. Noise abatement procedures in effect, ctc noise

office 303-790-0598. Rwy 35R crosswind/base leg south of

Lincoln Ave., Rwy 17L crosswind/base leg south of Arapahoe Rd.

Rwy 17R-35L clsd tfc remain south of Arapahoe Rd and east of

Interstate 25. Rwy 10-28 avoid noise sensitive areas 1 mile east and south of rwy. All acft blo 70,000 lbs

maximum gross tkf weight and Stage III acft up to certificated 75,000 lbs maximum gross tkf weight may be

operated, one-time exceptions may be authorized by Executive Director on a case-by-case basis. Helicopter

ops please ctc preferred FBO for ldg zone locations. Helicopter ops on front ramp not advised. U.S. Customs

user fee arpt. Call U.S. Customs 303-768-0309. 24 hr user fee customs avbl. Ctc arpt for fee information. See

Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS (303) 706-9098.

COMMUNICATIONS: ATIS 120.3 (303) 799-6722 UNICOM 122.95

DENVER RCO 122.35 122.2 122.0 (DENVER RADIO)

DENVER APP/DEP CON 132.75

TOWER 118.9 GND CON 121.8 CLNC DEL 128.6

AIRSPACE: CLASS D svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

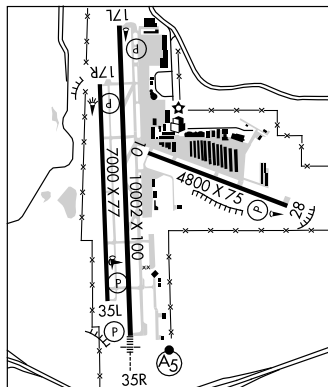
FALCON (H) VORTACW 116.3 FQF Chan 110 N39°41.41' W104°37.26' 225° 12.8 NM to fld. 5780/11E.

CASSE NDB (HW/LOM) 260 AP N39°27.12' W104°50.75' 348° 7.1 NM to fld. NOTAM FILE APA.

ILS/DME 111.3 I-APA Chan 50 Rwy 35R. LOM CASSE NDB. LOC unusable byd 13 NM blo 9,000'.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr. Advise GND CON when ready for dep. GND CON

will advise when to monitor the twr frequency.



DENVER INTL (DEN) 16 NE UTC-7(-6DT) N39°51.70' W104°40.39'

DENVER

5431 B S4 FUEL 100, 100LL, JET A, MOGAS OX 1, 3 Class I, ARFF Index E

H-3E, 5A, L-10F, A

NOTAM FILE DEN

IAP, AD

RWY 16R-34L: H16000X200 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 16R: MALSR. TDZL. PAPI(P4R)—GA 3.0° TCH 71'.

RWY 34L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 70'.

RWY 07-25: H12000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 07: MALSR. TDZL. PAPI(P4R)—GA 3.0° TCH 55'.

RWY 25: MALSR. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 08-26: H12000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 08: MALSR. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 26: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 55'. 0.5% up.

RWY 16L-34R: H12000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 16L: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 34R: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 17R-35L: H12000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 17R: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 55'. 0.5% up.

RWY 35L: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 55'.

RWY 17L-35R: H12000X150 (CONC-GRVD) S-100, D-200, ST-175, DT-380, DDT-850 HIRL CL

RWY 17L: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 55'. 0.4% up.

RWY 35R: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 55'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 08:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 16L:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 16R:	TORA-16000	TODA-16000	ASDA-16000	LDA-16000
RWY 17L:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 17R:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 25:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 26:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 34L:	TORA-16000	TODA-16000	ASDA-16000	LDA-16000
RWY 34R:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 35L:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000
RWY 35R:	TORA-12000	TODA-12000	ASDA-12000	LDA-12000

AIRPORT REMARKS: Attended continuously. Waterfowl and migratory bird activity invof arpt year round. ASDE-X Surveillance System in use: Pilots should opr transponders with Mode C on all twys and rwyws. RVR Rwy 07 touchdown, rollout, RVR Rwy 25 touchdown, rollout, RVR Rwy 08 touchdown, rollout, RVR Rwy 26 touchdown, rollout, RVR Rwy 16L touchdown, midfield, rollout, RVR Rwy 34R touchdown, midfield, rollout, RVR Rwy 17L touchdown, midfield, rollout, RVR Rwy 35R touchdown, midfield, rollout, RVR Rwy 17R touchdown, midfield, rollout, RVR Rwy 35L touchdown, midfield, rollout. RVR Rwy 16R touchdown, midfield, rollout, RVR Rwy 34L touchdown, midfield, rollout. Overhead passenger bridge on South side of concourse 'A' provides 42 ft tail and 118 ft wingspan clearance when on twy centerline. Insufficient twy corner fillet pavement in the SE corner of the Twy M/M2 intersection for acft with wingspan over 107 ft. Fixed or movable object line between ramp and S Twys BN-BS removed. Informal rwy use program is in effect 24 hours a day. For additional noise abatement information contact airport management at 303-342-4200. Ldg fee. Flight Notification Service (ADCUS) avbl.

NOTE: See Special Notices—Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (303)342-0838. LLWAS. TDWR.

COMMUNICATIONS: D-ATIS ARR 125.6 (303) 342-0819 D-ATIS DEP 134.025 (303) 342-0820 UNICOM 122.95

RCD 123.65 (DENVER RADIO)

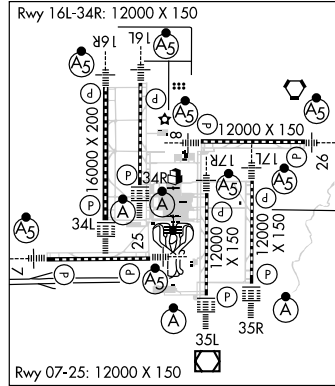
(R) APP CON 119.3 124.95 (North) 120.35 126.55 (South) **FINAL CON** 120.8

TOWER 132.35 (Rwy 07-25) 135.3 (Rwy 16L-34R, Rwy 16R-34L) 133.3 (Rwy 17R-35L) 124.3 (Rwy 08-26 and 17L-35R)

GND CON 127.5 (Rwy 07-25, Rwy 16L-34R and Rwy 16R-34L) 121.85 (Rwys 08-26, 17L-35R and 17R-35L) **CLNC DEL** 118.75

(R) DEP CON 128.25 (East) 127.05 (North) 126.1 (West) 128.45 (South)

AIRSPACE: CLASS B See VFR Terminal Area Chart.



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RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

(H) VORW/DME 117.9	DEN	Chan 126	N39°48.75' W104°39.65'	338° 3.0 NM to fld. 5440/11E.
ILS/DME 111.1	I-LTT	Chan 48	Rwy 16L.	
ILS/DME 111.1	I-OUF	Chan 48	Rwy 34R.	Class IIIE.
ILS/DME 111.9	I-DQQ	Chan 056	Rwy 16R.	
ILS/DME 111.9	I-DXU	Chan 056	Rwy 34L.	Class IIIE.
ILS/DME 108.9	I-FUI	Chan 26	Rwy 08.	
ILS/DME 108.9	I-JOY	Chan 26	Rwy 26.	Class IE.
ILS/DME 108.5	I-ACX	Chan 22	Rwy 17R.	Class IE.
ILS/DME 108.5	I-AQD	Chan 22	Rwy 35L.	
ILS/DME 110.15	I-BXP	Chan 38(Y)	Rwy 17L.	Class IE.
ILS/DME 110.15	I-DPP	Chan 38(Y)	Rwy 35R.	
ILS/DME 111.55	I-DZG	Chan 52(Y)	Rwy 07.	
ILS/DME 111.55	I-ERP	Chan 52(Y)	Rwy 25.	Class IE.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

FRONT RANGE (FTG) 19 E UTC-7(-6DT) N39°47.12' W104°32.59'

5512 B S4 FUEL 100LL, JET A OX 1, 2 TPA-6500(988) NOTAM FILE FTG

DENVER
H-5A, L-10F, A
IAP, AD

RWY 08-26: H8000X100 (ASPH) S-28, D-40 HIRL

RWY 08: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Rgt tfc. 0.5% up.

RWY 26: MALSR. PAPI(P2L)—GA 3.0° TCH 50'. 0.4% down.

RWY 17-35: H8000X100 (ASPH) S-34, D-46 MIRL

RWY 17: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 0.5% up.

RWY 35: MALSR. PAPI(P4L)—GA 3.0° TCH 50'. Rgt tfc.

AIRPORT REMARKS: Attended 1400-0400Z†. For svc after hrs call 303-208-8536. 24 hr credit card 100LL self fueling station. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Noise sensitive areas SE, S and SW of arpt.

Avoid flights blo 1,000 ft over populated areas. ACTIVATE MIRL Rwy 17-35, HIRL Rwy 08-26, PAPI Rwy 08, Rwy 26, Rwy 17 and Rwy 35 and REIL Rwy 08 and Rwy 17, MALSR Rwy 26 and Rwy 35—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 119.025 (303) 261-9104.

COMMUNICATIONS: CTAF 120.2 ATIS 119.025 UNICOM 122.95.

DENVER APP/DEP CON 128.25 CLNC DEL 121.75 (0400-1400Z†)

TOWER 120.2 GND CON 124.7 (1400-0400Z†) CLNC DEL 124.7

AIRSPACE: CLASS D svc 1400-0400Z† other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

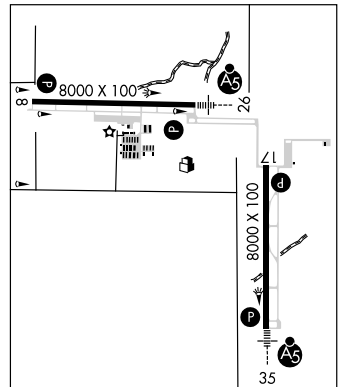
DENVER (H) VORW/DME 117.9 DEN Chan 126 N39°48.75' W104°39.65' 096° 5.7 NM to fld. 5440/11E.

SKIPI NDB (LOM) 321 FT N39°47.51' W104°26.05' 255° 5.1 NM to fld.

ILS/DME 109.3 I-FTG Chan 30 Rwy 26. LOM SKIPI NDB. ILS unmonitored.

ILS/DME 110.9 I-VWT Chan 46 Rwy 35.

ILS/DME 110.9 I-FZR Chan 46 Rwy 17.



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RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

(H) VORW/DME 117.9	DEN	Chan 126	N39°48.75' W104°39.65'	338° 3.0 NM to fld. 5440/11E.
ILS/DME 111.1	I-LTT	Chan 48	Rwy 16L.	
ILS/DME 111.1	I-OUF	Chan 48	Rwy 34R.	Class IIIE.
ILS/DME 111.9	I-DQQ	Chan 056	Rwy 16R.	
ILS/DME 111.9	I-DXU	Chan 056	Rwy 34L.	Class IIIE.
ILS/DME 108.9	I-FUI	Chan 26	Rwy 08.	
ILS/DME 108.9	I-JOY	Chan 26	Rwy 26.	Class IE.
ILS/DME 108.5	I-ACX	Chan 22	Rwy 17R.	Class IE.
ILS/DME 108.5	I-AQD	Chan 22	Rwy 35L.	
ILS/DME 110.15	I-BXP	Chan 38(Y)	Rwy 17L.	Class IE.
ILS/DME 110.15	I-DPP	Chan 38(Y)	Rwy 35R.	
ILS/DME 111.55	I-DZG	Chan 52(Y)	Rwy 07.	
ILS/DME 111.55	I-ERP	Chan 52(Y)	Rwy 25.	Class IE.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

FRONT RANGE (FTG) 19 E UTC-7(-6DT) N39°47.12' W104°32.59'

5512 B S4 FUEL 100LL, JET A OX 1, 2 TPA-6500(988) NOTAM FILE FTG

DENVER
H-5A, L-10F, A
IAP, AD

RWY 08-26: H8000X100 (ASPH) S-28, D-40 HIRL

RWY 08: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Rgt tfc. 0.5% up.

RWY 26: MALSR. PAPI(P2L)—GA 3.0° TCH 50'. 0.4% down.

RWY 17-35: H8000X100 (ASPH) S-34, D-46 MIRL

RWY 17: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 0.5% up.

RWY 35: MALSR. PAPI(P4L)—GA 3.0° TCH 50'. Rgt tfc.

AIRPORT REMARKS: Attended 1400-0400Z†. For svc after hrs call 303-208-8536. 24 hr credit card 100LL self fueling station. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Noise sensitive areas SE, S and SW of arpt.

Avoid flights blo 1,000 ft over populated areas. ACTIVATE MIRL Rwy 17-35, HIRL Rwy 08-26, PAPI Rwy 08, Rwy 26, Rwy 17 and Rwy 35 and REIL Rwy 08 and Rwy 17, MALSR Rwy 26 and Rwy 35—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 119.025 (303) 261-9104.

COMMUNICATIONS: CTAF 120.2 ATIS 119.025 UNICOM 122.95.

DENVER APP/DEP CON 128.25 CLNC DEL 121.75 (0400-1400Z†)

TOWER 120.2 GND CON 124.7 (1400-0400Z†) CLNC DEL 124.7

AIRSPACE: CLASS D svc 1400-0400Z† other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

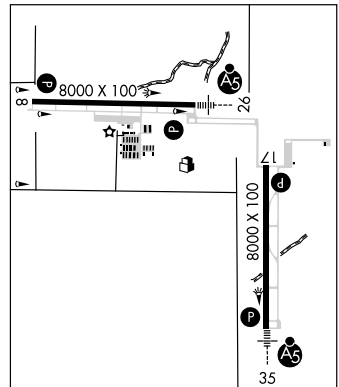
DENVER (H) VORW/DME 117.9 DEN Chan 126 N39°48.75' W104°39.65' 096° 5.7 NM to fld. 5440/11E.

SKIPI NDB (LOM) 321 FT N39°47.51' W104°26.05' 255° 5.1 NM to fld.

ILS/DME 109.3 I-FTG Chan 30 Rwy 26. LOM SKIPI NDB. ILS unmonitored.

ILS/DME 110.9 I-VWT Chan 46 Rwy 35.

ILS/DME 110.9 I-FZR Chan 46 Rwy 17.



ROCKY MOUNTAIN METROPOLITAN (BJC) 9 NW UTC-7(-6DT) N39°54.53' W105°07.03'

DENVER

5673 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 Class II, ARFF Index A

H-3E, 5A, L-10F, A

NOTAM FILE BJC

IAP, AD

RWY 11L-29R: H9000X100 (ASPH-GRVD) S-55, D-75, ST-95 MIRL

RWY 11L: REIL. PAPI(P4L)—GA 3.0° TCH 40'. 0.9% down.

RWY 29R: MALSR. PAPI(P4L)—GA 3.0° TCH 52'. Rgt tfc. 1.2% up.

RWY 11R-29L: H7002X75 (ASPH) S-12.5 MIRL 1.1% up NW

RWY 11R: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Rgt tfc.

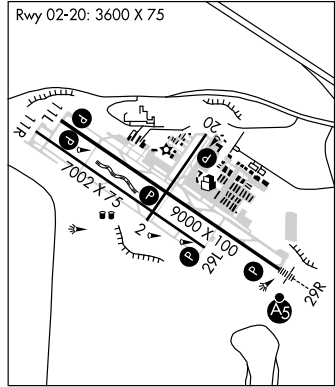
RWY 29L: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

RWY 02-20: H3600X75 (ASPH) S-40, D-45, DT-65 MIRL
0.4% up S

RWY 02: PAPI(P2L)—GA 3.0° TCH 30'.

RWY 20: PAPI(P2L)—GA 3.0° TCH 40'. Rgt tfc.

AIRPORT REMARKS: Attended continuously. Birds and other wildlife on and in/ovf rws. Watch for wildlife on or near rws. Construction equipment/cranes on and in/ovf arpt at various times. Be alert, intensive USAF student training in/ovf Colorado Springs and Pueblo Colorado. Helicopters arr/dep from rws and twys. Pilots are requested to avoid flight over Standley Lake blo 8000' MSL. Jeffco VOR 150° 3.0 DME due to nesting eagles. Voluntary noise abatement procedure in effect ctc arpt manager 303-271-4850. U.S. Customs user fee arpt. Right traffic not indicated on segmented circle for Rws 11R, 29R and 20. Twy C, Twy D, Twy G, Twy H and Twy J marked with reflectors. Approved run-up areas at A1, A17. A17 run-up not visible from twr. North terminal ramp slope exceeds FAA recommended stds. Inlgt'd windcone on apch Rwy 11L. Air carrier opr use lgt'd windcone on Rwy 11R for apch. When twr closed ACTIVATE MIRL Rwy 02-20, Rwy 11R-29L and Rwy 11L-29R, MALSR Rwy 29R, PAPI Rwy 02, Rwy 20, Rwy 11L, Rwy 11R, Rwy 29L, and Rwy 29R and REIL Rwy 11L, Rwy 11R and Rwy 29L—CTAF. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Extensive Helicopter Flight Training. USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.



WEATHER DATA SOURCES: AWOS-3 (720) 887-8067.

COMMUNICATIONS: CTAF 118.6 ATIS 126.25 (303) 466-8744

DENVER APP/DEP CON 126.1

METRO TOWER 118.6 (1300-0500Z±) GND CON 121.7

AIRSPACE: CLASS D svc 1300-0500Z± other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE BJC.

JEFFCO (H) VOR/DME 115.4 BJC Chan 101 N39°54.78' W105°08.34' 093° 1 NM to fld. 5728/11E.

ILS 111.7 I-BJC Rwy 29R. Unmonitored when twr closed.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

DENVER N39°34.21' W104°50.96'

DENVER

RCO 122.35 122.2 122.0 (DENVER RADIO)

H-3E, 5A, L-10F, A

DOVE CREEK (8V6) 1 E UTC-7(-6DT) N37°45.89' W108°53.32'

DENVER

6975 TPA-7700(725) NOTAM FILE DEN

RWY 01-19: 4200X50 (DIRT)

RWY 01: Fence. RWY 19: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED when snow covered. Rwy 01-19 has -3' ditch along both sides rwy.

Rwy 01-19 soft when wet. Unlimited vehicle use on arpt. Rwy 19 +12' ground 258' right of centerline parallel to extended centerline first 500'.

COMMUNICATIONS: CTAF 122.9

DOVE CREEK N37°48.53' W108°55.88' NOTAM FILE DEN.

DENVER

(H) VORTACW 114.6 DVC Chan 93 277° 21.2 NM to Monticello, UT. 6990/14E.

H-3D, L-9D

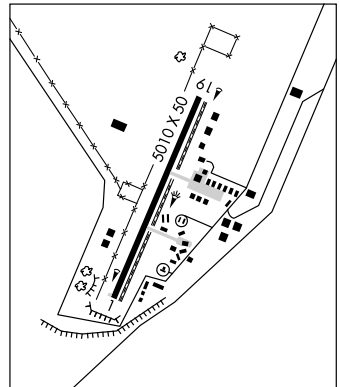
RCO 122.5 (DENVER RADIO)

DURANGO**ANIMAS AIR PARK** (ØØC) 4 S UTC-7(-6DT) N37°12.19' W107°52.15'

6684 S4 FUEL 100LL, JET A OX 1 TPA-7484(800) NOTAM FILE DEN

DENVER
H-4J, L-8I, 9E**RWY 01-19:** H5010X50 (ASPH) MIRL (NSTD)**RWY 01:** Rgt tfc. **RWY 19:** Tree.

AIRPORT REMARKS: Attended dalgt hours. Rwy 01-19 minus 1' to minus 2' drainage ditches 35' from centerline along west side and 30' from centerline along east side. Rwy 01-19 several rwy and thld lights are broken or missing lights are shielded by weeds. Rwy 01, 120' from and parallel thld, 200' dropoff. +10' road 105' W of rwy centerline full length. +4' fence 87' W of Rwy 01-19 parallel to centerline full length. Rwy 01 has +8' terrain with +8' bushes 75' left of centerline for first 250'. +8' fence and 15' trees 1817' from Rwy 01 end 105' left of centerline. Rwy 01-19 thld lgts N end located 162' from pavement end. **ACTIVATE MIRL** using 122.9, click 3 times on/off for Rwy 01-19.

COMMUNICATIONS: CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE DRO.**DURANGO (L) VOR/DME** 108.2 DRO Chan 19 N37°09.20' W107°44.98' 284° 6.5 NM to fld. 6660/14E.**DURANGO-LA PLATA CO** (DRO) 10 SE UTC-7(-6DT) N37°09.09' W107°45.23'

6685 B S4 FUEL 100LL, JET A OX 4 Class I, ARFF Index B NOTAM FILE DRO

DENVER
H-4J, L-8I, 9E
IAP**RWY 03-21:** H9201X150 (ASPH-GRVD) S-95, D-150, ST-175, DT-210 HIRL**RWY 03:** MALS. VASI(V4L)—GA 3.0° TCH 57'. 0.8% up.**RWY 21:** REIL. VASI(V4L)—GA 3.0° TCH 51'. 0.7% down.

AIRPORT REMARKS: Attended Nov-Mar Sun-Fri 1300-0500Z†, Sat 1300-0400Z†, Apr-Oct 1300-0500Z†. For after hrs svc call 970-259-7400 or 970-749-6186. PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 970-247-8143. No snow removal provided at ngt between last scheduled air carrier flight until the first air carrier flight the following morning. **ACTIVATE HIRL** Rwy 03-21, VASI Rwy 03 and Rwy 21, REIL Rwy 21 and MALS Rwy 03 —CTAF.

WEATHER DATA SOURCES: ASOS 120.625 (970) 259-3579.**COMMUNICATIONS:** CTAF/UNICOM 122.8

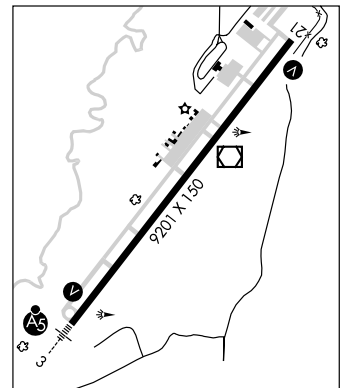
RCO 122.35 (DENVER RADIO)

DENVER CENTER APP/DEP CON 118.575

AIRSPACE: CLASS E svc 1300-0300Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DRO.**(L) VOR/DME** 108.2 DRO Chan 19 N37°09.20'

W107°44.98' at fld. 6660/14E.

DME unusable 070°-090° byd 30NM blo 12,500', 140°-185° byd 25 NM blo 13,000'.

ILS/DME 109.1 I-DRO Chan 19 Rwy 03.

EADS MUNI (9V7) 1 W UTC-7(-6DT) N38°28.51' W102°48.65'

WICHITA

4245 NOTAM FILE DEN

L-10G

RWY 17-35: H3860X60 (ASPH) MIRL

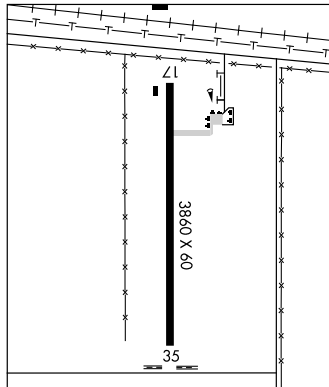
RWY 17: Road. **RWY 35:** Road.

AIRPORT REMARKS: Unattended. Be alert, intensive USAF student training in/ov Colorado Springs and Pueblo Colorado. Rwy 17 has +17' railroad 530' from thld centerline, -4' ditch 375' from thld centerline. Apron area is milled asph. Twy unmarked. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LAA.

LAMAR (H) VORTAC 116.9 LAA Chan 116 N38°11.83'
W102°41.25' 329° 17.7 NM to fld. 3944/12E.



EAGLE CO RGNL (EGE) 4 W UTC-7(-6DT) N39°38.57' W106°54.96'

DENVER

6548 B S4 **FUEL** 100LL, JET A1, A1+ OX 1, 3 Class I, ARFF Index C NOTAM FILE EGE

H-3E, L-9E

RWY 07-25: H9000X150 (ASPH-GRVD) S-75, D-140, ST-175, DT-225 HIRL

IAP, AD

RWY 07: REIL. Tree. Rgt tfc. 0.9% up.

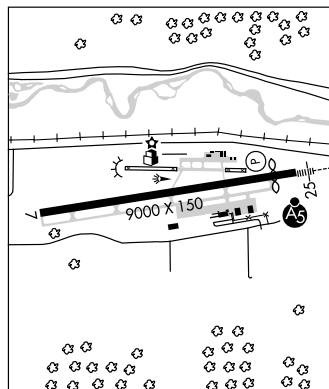
RWY 25: MALSR. PAPI(P4R)—GA 3.0° TCH 55'. Thld dsplcd 1000' 1.1% down.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 25: TORA-9000 TODA-9000 ASDA-9000 LDA-8000

AIRPORT REMARKS: Attended 1300-0400Z. CLOSED to unscheduled air carrier operations with more than 30 passenger seats except PPR call arpt manager 970-524-9490. High unmarked terrain all quadrants. Critical acft are Category D IV, B757-200 equivalent and lower. Ngt ops discouraged to pilots unfamiliar with arpt. Recommend all acft departing Rwy 25 initiate a left turn as soon as altitude and safety permit to avoid high terrain. Extensive military helicopter training operations surface to 1000' AGL within 25 NM radius Eagle Co Arpt 1330-0500Z. No snow removal between midnight and 1300Z. Air carrier acft should not leave or enter Twy A east of Twy C-2. Rwy 25 PAPI only visible to 6° left of centerline due to terrain. After 0200Z ACTIVATE HIRL Rwy 07-25, REIL Rwy 07, and MALSR Rwy 25—CTAF. PAPI Rwy 25 operates 24 hours. U.S. Customs user fee arpt: regular office hrs Thu-Mon 1600-0000Z. After hrs service avbl. Office 970-524-0490. After hrs 303-472-1125. Three hr advance notice required.



WEATHER DATA SOURCES: AWOS-3 135.575 (970) 524-7386.

COMMUNICATIONS: CTAF 119.8 ATIS 135.575

RCO 122.2 (DENVER RADIO)

DENVER CENTER APP/DEP CON 128.65 CLNC DEL 124.75

TOWER 119.8 (1400-0200Z) GND CON 124.75 CLNC DEL 124.75

AIRSPACE: CLASS D svc 1400-0200Z other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

SNOW (L) VOR/DME 109.2 SFXW Chan 29 N39°37.77' W106°59.47' 066° 3.5 NM to fld. 8060/12E.
Unmonitored 0600-1300Z.

EASTON (VALLEY VIEW) (See GREELEY)

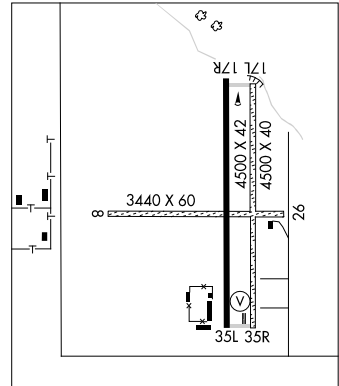
ELLICOTT**COLORADO SPRINGS EAST** (A50) 3 NW UTC-7(-6DT) N38°52.47' W104°24.60'DENVER
L-10F

6145 S2 FUEL 100LL NOTAM FILE DEN
RWY 17R-35L: H4500X42 (ASPH) RWY LGTS (NSTD)
RWY 17R: Tree. **RWY 35L:** VASI (NSTD) Rgt tfc. Road.
RWY 17L-35R: 4500X40 (GRVL)
RWY 35R: Road.
RWY 08-26: 3440X60 (GRVL)
RWY 08: Fence. Rgt tfc. **RWY 26:** Road.

AIRPORT REMARKS: Attended 1500-0000Z±. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Rwy 17R-35L lgts on E side of rwy only. Rwy 17R-35L CLOSED to helicopters. Rwy 08 +35' p-line 1500' from thld 0° both sides of centerline. Rwy 17R-35L has 6' asphalt shoulder both sides full length. Rwy 17R has +4' fence 375' from rwy end on both sides. -2' terrain 280' from rwy end on both sides. Recommend acft land past Rwy 35L connector twy. Rwy 17R-35L marked on both sides with white reflectors. For NSTD rwy lgts call 719-243-2083. Rwy 35L NSTD one-box VASI located right side of thld OTS indef. Fee for commercial acft ctc arpt manager 719-243-2083. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEN.

BLACK FOREST (L) VORTACW 112.5 BRK Chan 72 N38°56.67' W104°38.01' 099° 11.3 NM to fld.
 6930/13E.

**ELLICOTT—USAF ACADEMY BULLSEYE AUX AIRSTRIP** C090 N38°45'28" W104°18'28"DENVER
L-10F

ASOS 118.325 719-683-3346.

EMPIRE OCO N39°47.67' W105°45.78'/12493DENVER
L-9E

AWOS-3 134.325.

ERIE MUNI (EIK) 3 S UTC-7(-6DT) N40°00.61' W105°02.88'CHEYENNE
L-10F, A
IAP

5130 B S4 FUEL 100LL, JET A, MOGAS OX 1, 2 NOTAM FILE DEN

RWY 15-33: H4700X60 (CONC) S-12.5 MIRL 0.9% up S**RWY 15:** REIL. PAPI(P2L). Tree. Rgt tfc.**RWY 33:** PAPI(P2L). Road.

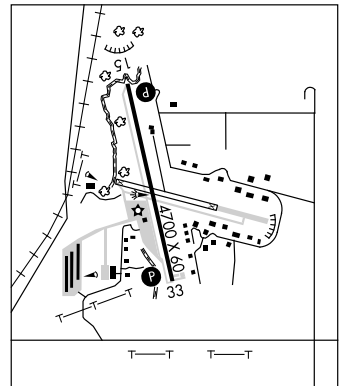
AIRPORT REMARKS: Attended Mon-Sat 1500-0000Z±, Sun 1500-2100Z±. After hrs emerg ctc 303-870-5659. Self svc credit card fuel avbl 24 hrs. Rwy 15 has -2' to -6' ditches within 700' of rwy end at various locations. Rwy 33 has -6' to -12' ditch 60' left of centerline parallel to first 750' of rwy. Rwy 15-33 -2' terrain 60' to 70' E of rwy centerline, full length. Twy marked with blue reflectors. ACTIVATE MIRL Rwy 15-33 PAPI Rwy 15 and Rwy 33 and REIL Rwy 15—CTAF.

WEATHER DATA SOURCES: AWOS-3 133.825 (303) 604-4339.**COMMUNICATIONS:** CTAF/UNICOM 123.0

® DENVER APP/DEP CON 126.1

RADIO AIDS TO NAVIGATION: NOTAM FILE BJC.

JEFFCO (H) VORW/DME 115.4 BJC Chan 101 N39°54.78'
 W105°08.34' 025° 7.2 NM to fld. 5728/11E.

**FALCON** N39°41.41' W104°37.26' NOTAM FILE DEN.DENVER
H-3E, 5A, L-10G, A

(H) **VORTACW** 116.3 FQF Chan 110 225° 12.8 NM to Centennial. 5780/11E. VORTAC
 unusable 068°-088° byd 10 NM blo 11,500'.

FORT CARSON (See BUTTS AAF)

FORT COLLINS/LOVELAND

FORT COLLINS—LOVELAND MUNI (FNL) 9 SE UTC-7(-6DT) N40°27.11' W105°00.68'

CHEYENNE

5016 B S4 FUEL 100LL, JET A OX 1, 2 Class I, ARFF Index B NOTAM FILE FNL

H-3E, 5A, L-10F

RWY 15-33: H8500X100 (ASPH-GRVD) S-50, D-65, ST-82, DT-130 HIRL

IAP

RWY 15: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 0.5% up.

RWY 33: MALSR. PAPI(P4L)—GA 3.0° TCH 51'. 0.5% down

RWY 06-24: H2273X40 (ASPH)

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-2273 TODA-2273 ASDA-2273 LDA-2273

RWY 15: TORA-8500 TODA-8500 ASDA-8500 LDA-8500

RWY 24: TORA-2273 TODA-2273 ASDA-2273 LDA-2273

RWY 33: TORA-8500 TODA-8500 ASDA-8500 LDA-8500

AIRPORT REMARKS: Attended 1300-0500Z±. Parachute Jumping. Be alert, intensive USAF student training in vol of Colorado Springs and Pueblo Colorado. 24 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 970-962-2852. HIRL Rwy 15-33 preset low ints, to increase ints and ACTIVATE parallel twy lights, REIL Rwy 15 MALSR Rwy 33 and PAPI Rwy 33—CTAF. Rwy 15 PAPI on continuous. NOTE: See Special Notices—Christman Airport, Fort Collins, Colorado. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 135.075 (970) 669-9187.

COMMUNICATIONS: CTAF/UNICOM 122.7

FT. COLLINS—LOVELAND RCO 122.4 (DENVER RADIO)

GILL RCO 122.65 (DENVER RADIO)

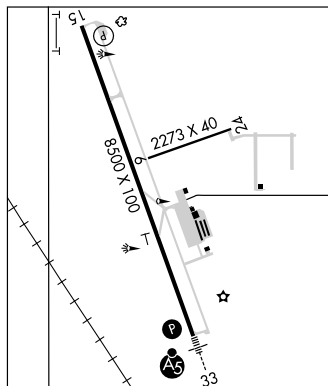
DENVER APP/DEP CON 134.85 CLNC DEL 120.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

GILL (H) VORTACW 114.2 GLL Chan 89 N40°30.23' W104°33.18' 249° 21.2 NM to fld. 4910/13E.

COLLN NDB (LOM) 400 FN N40°21.79' W104°58.28' 332° 5.6 NM to fld.

ILS 109.5 I-FNL Rwy 33. Class IT. LOM COLLN NDB (ILS unmonitored when arpt unattended).



FORT MORGAN MUNI (FMM) 5 N UTC-7(-6DT) N40°20.04' W103°48.24'

CHEYENNE

4569 B S2 FUEL 100LL, JET A1 TPA-5600(1031) NOTAM FILE DEN

H-5A, L-10F

RWY 14-32: H5219X60 (CONC) S-30 MIRL

RWY 14: PAPI(P2L)—GA 3.0° TCH 23'. Ground. RWY 32: REIL. Road.

RWY 17-35: 3800X30 (DIRT-TURF)

RWY 17: Ground.

RWY 08-26: 2467X100 (TURF)

RWY 08: Road. RWY 26: Road.

AIRPORT REMARKS: Attended Mon-Sat 1500-0000Z±. For fuel after hours phone 970-768-0553 or 970-467-8304. Be alert, intensive USAF student training in vol of Colorado Springs and Pueblo Colorado. Rwy 8 has 20' haystacks 30' left of rwy, 150' from rwy thld. Rwy 08-26 used for severe crosswind conditions only. Rwy 08-26 rise at intersection of Rwy 14-32. Rwy 32 150' aligned twy—for taxiing only. ACTIVATE MIRL Rwy 14-32—CTAF. NOTE: See Special Notices—Aerobatic Operations in Colorado. USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 132.95 (970) 867-4823.

COMMUNICATIONS: CTAF/UNICOM 123.05

RADIO AIDS TO NAVIGATION: NOTAM FILE AKO.

AKRON (H) VORW/DME 114.4 AKO Chan 91 N40°09.33' W103°10.79' 278° 30.6 NM to fld. 4620/13E.

FREMONT CO (See CANON CITY)

FRONT RANGE (See DENVER)

GARFIELD CO RGNL (See RIFLE)

GEBAUER (See AKRON)

GILL N40°30.23' W104°33.18' NOTAM FILE DEN.

CHEYENNE

(H) VORTACW 114.2 GLL Chan 89 249° 21.2 NM to Fort Collins-Loveland Muni. 4910/13E.

H-5A, L-10F

RCO 122.65 (DENVER RADIO)

GLENWOOD SPRINGS MUNI (GWS) 3 S UTC-7(-6DT) N39°30.36' W107°18.55'**DENVER**

5916 S4 FUEL 100LL NOTAM FILE DEN

L-9E**RWY 14-32:** H3305X50 (ASPH) S-15**RWY 14:** Trees. **RWY 32:** PAPI (P2L)—4.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z±. Fuel avbl 24 hrs via self-serve credit card pump. Arpt Manager on call at 970-618-0778 or 970-928-9876. Gusty winds frequently in vicinity of arpt. Animals on and in vicinity of arpt. Numerous +25'-50' buildings, equipment and tie downs approximately 200' from centerline both sides of rwy full length. Paragliding ops vicinity 1 to 2 miles northwest of arpt up to 18,000' MSL. Rwy 14-32 has +3" to 5" lip off edge in various locations. 6' drop off all twys. **NOISE ABATEMENT:** When wind and weather permit use Rwy 32 for arrival and Rwy 14 for departure. No touch and go ldg's.

COMMUNICATIONS: CTAF/UNICOM 123.0**RCO** 122.2 (DENVER RADIO)**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEN.

RED TABLE (H) VORW/DME 113.0 DBL Chan 77 N39°26.36' W106°53.68' 270° 19.7 NM to fld.
11800/12E.

GRANBY-GRAND CO (GNB) 1 NE UTC-7(-6DT) N40°05.38' W105°55.03'**CHEYENNE**

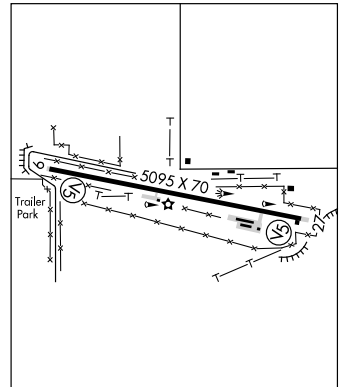
8203 B FUEL 100LL, JET A NOTAM FILE DEN Not insp.

H-3E, 5A, L-9E**RWY 09-27:** H5095X70 (ASPH) S-10 MIRL (NSTD)**RWY 09:** REIL. APAP(PNIR)—GA 3.0° TCH 50'.**RWY 27:** APAP(PNLL)—GA 3.0° TCH 50'. Terrain. Rgt tfc.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 09:** TORA-4959 LDA-4959**RWY 27:** TORA-4959 LDA-4959

AIRPORT REMARKS: Unattended. Fuel 24 hr self svc. Recommended tkf to E only by experienced pilots. Rwy 09 has 6' dropoff 150' from rwy thld. High ground rises quickly to the E. Ultralight activity 3 miles S of arpt, dalgt hrs surface to 2000' AGL. Runup pad at Rwy 27 ends in abrupt drop-off. **ACTIVATE MIRL** Rwy 09-27 and REIL Rwy 09—CTAF.

WEATHER DATA SOURCES: AWOS-1 119.925 (970) 887-1803.**COMMUNICATIONS:** CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEN.

KREMMLING (H) VORW/DME 113.8 RLG Chan 85 N40°00.16'
W106°26.55' 064° 24.8 NM to fld. 9370/14E.

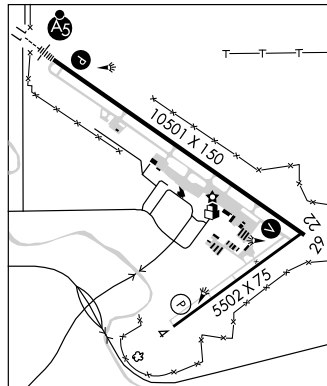


GRAND JUNCTION RGNL (GJT) 3 NE UTC-7(-6DT) N39°07.35' W108°31.60'
 4858 B S4 FUEL 100LL, JET A OX 1 Class I, ARFF Index B NOTAM FILE GJT
 RWY 11-29: H10501X150 (ASPH-GRVD) S-110, D-180, ST-175, DT-260 HIRL

DENVER
 H-3E, L-9D
 IAP, AD

RWY 11: MALSR. PAPI(P4L)—GA 3.0° TCH 52'. 0.4% up.
 RWY 29: REIL. VASI(V4L)—GA 3.0° TCH 50'. 0.3% down.
 RWY 04-22: H5502X75 (ASPH-GRVD) S-26, D-26 MIRL 1.3% up NE
 RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 40'. RWY 22: REIL.

AIRPORT REMARKS: Attended continuously. For fuel after hrs call 970-243-7500. Rwy 04-22 is CLOSED for taxi 0500-1300Z±. During spring, migration of bird flocks on and invof arpt. Noise abatement procedures in effect, etc arpt manager for details at 970-244-9100. ARFF provided only during scheduled Part 121 air carrier ops except by PPR, call arpt manager for details at 970-244-9100. Liquid oxygen servicing avbl. Twy C1 and C, 150' either side of the intersection of Twy C1 not visible from twr. Four helipads located on arpt. Touchdown rwy visual range avbl Rwy 11. After twr clsd ACTIVATE HIRL Rwy 11-29, MALSR Rwy 11 and twy lights, PAPI Rwy 11, VASI Rwy 29—CTAF. Rwy 04 PAPI on continuously only during twr hrs. Rwy 04 PAPI turned off all other times.



WEATHER DATA SOURCES: ASOS (970) 245-7881.

COMMUNICATIONS: CTAF 118.1 ATIS 118.55 UNICOM 122.95

RCD 122.6 (DENVER RADIO)

Ⓡ DENVER APP/DEP CON 119.7 (1300-0500Z±) Ⓡ DENVER CENTER APP/DEP CON 134.5 (0500-1300Z±)

TOWER 118.1 (1300-0500Z±) GND CON 121.7

VFR ADVSY SVC ctc TOWER.

AIRSPACE: CLASS D svc 1300-0500Z± other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

(H) VOR/DME 112.4 JNC Chan 71 N39°03.57' W108°47.56' 058° 13.0 NM to fld. 7100/15E.

ILS/DME 110.3 I-GJT Chan 40 Rwy 11. Class IB.

LDA/DME 109.7 I-ACD Chan 34 Rwy 29.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

GRAND MESA N39°05.03' W108°13.24'

DENVER
 L-9E

RCD 122.2 (DENVER RADIO)

GREELEY

EASTON (VALLEY VIEW) (11V) 7 SE UTC-7(-6DT) N40°19.83' W104°36.53'

CHEYENNE

4820 S4 FUEL 100LL, JET A NOTAM FILE DEN

RWY 08-26: 4000X25 (TURF-DIRT)

RWY 08: Road. RWY 26: Road.

RWY 14-32: 2400X65 (TURF-DIRT)

RWY 14: Road.

AIRPORT REMARKS: Attended dalgt hrs. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Rwy 14-32 condition fair S of model acft flight area. N of this area rwy is unmaintained, use of rwy is not recommended. Unlimited vehicular access to rwys and twys. Ops are primarily helicopter or agricultural ops. Twy not maintained, not recommended for taxi. Rwy 08 +35' trees 1200' from thld 130' right. Rwy 08 end rough with grass encroachment along edges for 1150'. +2' cable 20' east of Rwy 08-26 crossing centerline. Rwy 08-26 and Rwy 14-32 all surfaces soft when wet. Rwy 08 +35' p-lines parallel to thld 1140' from thld. Rwy 26 +3' cable at and parallel to thld. Rwy 32 has 60' ball field backstop 100' from rwy end and 300' right of centerline. Rwy 14-32 has 4' fence 43' right of rwy 14 full length and 4' fence 40' left of rwy first half of rwy. Rwy 14 has -15' ditch 15' from rwy end on both sides of centerline. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF 122.9

GREELEY-WELD CO (GXY) 3 E UTC-7(-6DT) N40°26.25' W104°37.99'

CHEYENNE

4697 B S4 FUEL 100LL, JET A OX 3, 4 TPA-5497(800) NOTAM FILE GXY

H-3E, 5A, L-10F

RWY 16-34: H1000X100 (ASPH) S-30, D-45 MIRL

IAP, AD

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 42'. 0.6% down.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 47'. Thld dsplcd 1100'. 0.4% up.

RWY 09-27: H5801X100 (ASPH) S-18, D-30 MIRL 0.3% up NW

RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 43'.

RWY 27: REIL. VASI(V4L)—GA 3.0° TCH 50'. Rgt tfc.

AIRPORT REMARKS: Attended 1300-0200Z†. For attendance after hours call 970-336-3010. Wildlife on and invof rwy. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Oil drilling rigs up to 120' AGL on and invof arpt. Rwy 34 preferred use when wind less than 5 knots. Rwy 34 preferred for touch and go landing. ACTIVATE MIRL Rwy 09-27 and Rwy 16-34, REIL Rwy 09, Rwy 27, Rwy 16 and Rwy 34—CTAF. PAPI Rwy 09, PAPI Rwy 16, PAPI Rwy 34 and VASI Rwy 27 opr 24hrs. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 135.175 (970) 352-3511.

COMMUNICATIONS: CTAF/UNICOM 122.8

GILL RCO 122.65 (DENVER RADIO)

Ⓡ DENVER APP/DEP CON 134.85 CLNC DEL 126.65

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

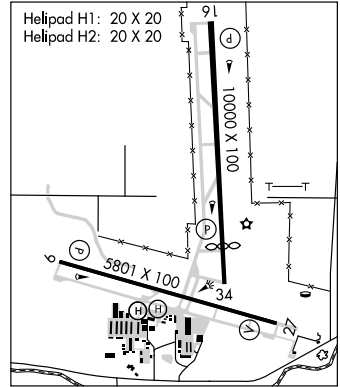
GILL (H) VORTACW 114.2 GLL Chan 89 N40°30.23' W104°33.18' 210° 5.4 NM to fld. 4910/13E.

BUFFS NDB (LOM) 348 DC N 40° 20.08' W104° 37.57' 346° 6.2 NM to fld.

ILS/DME 110.3 I-DCI Chan 40 Rwy 34 LOM Bluffs NDB.

HELIPAD H1: H20X20 (CONC)

HELIPAD H2: H20X20 (CONC)



GUNNISON-CRESTED BUTTE RGNL (GUC) 1 SW UTC-7(-6DT) N38°32.04' W106°55.98'

DENVER

7680 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 Class I, ARFF Index B NOTAM FILE GUC

H-3E, L-9E

RWY 06-24: H9400X150 (ASPH-GRVD) S-75, D-160, DT-250 HIRL

IAP

RWY 06: MALSF. PAPI(P4L)—GA 3.2° TCH 55'. Rgt tfc. 0.3% up.

RWY 24: REIL. PAPI(P4L)—GA 3.1° TCH 50'.

RWY 17-35: 3000X150 (TURF-GRVL) 0.6% up N

RWY 17: Tree. Rgt tfc. RWY 35: Thld dsplcd 200'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-9400 TODA-9400 ASDA-9400 LDA-9400

RWY 17: TORA-3000 TODA-3000 ASDA-3000 LDA-3000

RWY 24: TORA-9400 TODA-9400 ASDA-9400 LDA-9400

RWY 35: TORA-3000 TODA-3000 ASDA-3000 LDA-3000

AIRPORT REMARKS: Attended dalgt hours. Rwy 17-35 CLOSED Dec 1-May 1. CLOSED to unscheduled operations with more than 30 passenger seats except PPR. Call arpt manager 970-641-2304. High terrain all quadrants. Rotating bcn opr dark-0530Z† and 1300Z†-SR. HIRL Rwy 06-24 and REIL Rwy 24 operates 1300-0530Z†. ACTIVATE MALSF Rwy 06 and PAPI Rwy 06—CTAF. PAPI Rwy 24 operates 24 hrs.

WEATHER DATA SOURCES: AWOS-3 135.075 (970) 641-3240.

COMMUNICATIONS: CTAF/UNICOM 122.7

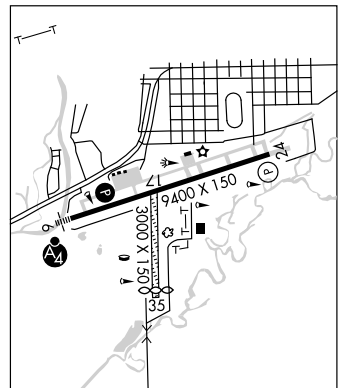
DENVER CENTER APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

BLUE MESA (H) VOR/DME 114.9 HBU Chan 96 N38°27.13' W107°02.39' 032° 7.0 NM to fld. 8730/14E.

ILS/DME 110.5 I-GUC Chan 42 Rwy 06. Class IE.

Glideslope unmonitored. LOC unusable byd 20° left of course.



HARRIET ALEXANDER FLD (See SALIDA)

HAXTUN MUNI (17V) 2 SE UTC-7(-6DT) N40°37.50' W102°36.19'

CHEYENNE

4035 TPA—5035(1000) NOTAM FILE DEN

L-10G

RWY 08-26: H3860X40 (ASPH) LIRL (NSTD)

RWY 08: Road. **RWY 26:** Road.

RWY 17-35: 1650X30 (TURF-DIRT)

RWY 17: Building. **RWY 35:** Road.

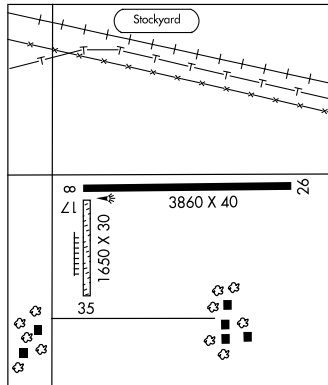
AIRPORT REMARKS: Unattended. Rwy 17-35 not maintained, very rough.

Rwy 17-35 multiple cracks. Gravel road parallels both rwys 45-55' from centerlines. Rwy 08-26 multiple cracks. Rwy 08-26 NSTD LIRL. No thld lgts. Edge lgts begin 250' of Rwy 08 end. Rwy 08 has +3' pole 3' from left edge 500' from rwy end. Rwy 08 has +3' pole from left edge 500' from rwy end.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE SNY.

SIDNEY (H) VORTAC 115.9 SNY Chan 106 N41°05.80' W102°58.98' 135° 33.2 NM to fld. 4300/13E.



HAYDEN N40°31.21' W107°18.29' NOTAM FILE DEN.

CHEYENNE

(H) **VOR/DME** 115.6 CHE Chan 103 106° 4.6 NM to Yampa Valley. 7269/14E.

H-3E, L-9E, 11E

RCO 122.25 (DENVER RADIO)

HAYDEN

YAMPA VALLEY (HDN) 2 SE UTC-7(-6DT) N40°28.87' W107°13.06'

CHEYENNE

6606 B **FUEL** 100LL, **JET A** OX 3, 4 **ARFF** Index—See Remarks NOTAM FILE HDN

H-3E, L-9E, 11E

RWY 10-28: H9998X150 (ASPH-GRVD) S-75, D-170, DT-260 **HIRL**

IAP

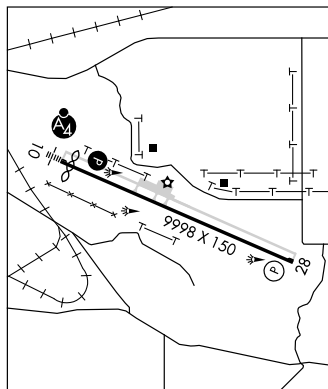
RWY 10: MALSF. PAPI(P4L)—GA 3.0° TCH 55'. Thld dspclcd 509'.

Rgt tfc.

RWY 28: REIL. PAPI(P4L)—GA 3.5° TCH 55'. P-line. 0.3% down

AIRPORT REMARKS: Attended 1300-0300Z±. Class I, ARFF Index C from Dec-Mar. ARFF Index B from Apr-Nov. Possible severe winter

conditions from Nov-Apr. Check NOTAMS for arpt conditions. No arpt information nor snow removal guaranteed during hours of nonattendance. CLOSED to unscheduled air carrier ops with more than 30 passenger seat except PPR, call arpt manager 970-276-5000. Large flocks of sandhill cranes around arpt in spring. All acft report 10 minutes prior to tkf/lbg on 123.0—monitor frequency 24 hrs, PAEW on rwy. Between 1300-0300Z± ctc UNICOM prior to all tkfs and ldgs for PAEW advisories. PPR for escort to-from active rwy during normal business hrs. During snow season ctc UNICOM. Request all acft departing Rwy 28 make right or left turnout as soon as safety permits after tkf to avoid town of Hayden and comply with noise abatement procedures. Ldg fee for acft 11,000 pounds and over. **ACTIVATE HIRL** Rwy 10-28, REIL Rwy 28, PAPI Rwy 10 and MALSF Rwy 10—CTAF.



WEATHER DATA SOURCES: AWOS-3 119.275 (970) 276-3690.

COMMUNICATIONS: CTAF/UNICOM 123.0

HAYDEN RCO 122.25 (DENVER RADIO)

DENVER CENTER APP/DEP CON 120.475

AIRSPACE: CLASS E svc 1400-0400Z± other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

HAYDEN (H) VOR/DME 115.6 CHE Chan 103 N40°31.21' W107°18.29' 106° 4.6 NM to fld. 7269/14E.

ILS/DME 109.9 I-HDN Chan 36 Rwy 10. Class IB.

HOLLY (K08) 1 S UTC-7(-6DT) N38°02.00' W102°07.03'

WICHITA

3390 FUEL 100LL NOTAM FILE DEN

RWY 17-35: 4140X40 (GRVL) LIRL (NSTD)

RWY 17: TRCV(TRIL)—GA 3.0°. Fence.

RWY 35: TRCV(TRIL)—GA 3.0°. Fence.

AIRPORT REMARKS: Attended on call. For attendant call town of Holly 719-537-6622 Lamar dispatch 719-336-3995.

For fuel call town of Holly 719-537-6622. Lamar dispatch 719-336-3995. Rwy soft when wet. Be alert, intensive USAF student training in/ov Colorado Springs and Pueblo Colorado. Rwy 17-35 has +30' powerlines 800' north of rwy end 150' left and right of centerline. Rwy 17-35 has +4' fence 120' from centerline on both sides. Rwy 17-35 has NSTD edge lgts 30' from rwy edge, lgts at varying heights. ACTIVATE LIRL Rwy 17-35 and VASI Rwy 17 and 35—CTAF. TRIL Rws 17 and 35 OTS indef. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF/UNICOM 122.8**HOLYOKE** (HEQ) 1 SE UTC-7(-6DT) N40°34.17' W102°16.36'

CHEYENNE

3730 B FUEL 100LL NOTAM FILE DEN

H-5B, L-10G

RWY 14-32: H5000X75 (ASPH) S-12.5 MIRL

IAP

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

RWY 32: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

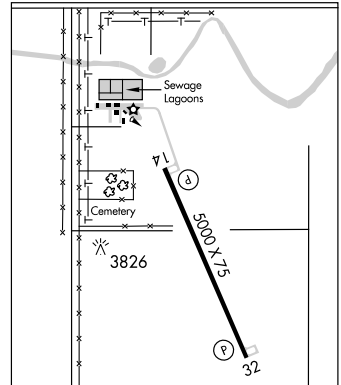
AIRPORT REMARKS: Attended irregularly. For fuel call 970-854-3300 or ctc 122.7. Geese on and in/ov rwy. ACTIVATE MIRL Rwy 14-32 and REIL Rwy 14 and Rwy 32—CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.275 (970) 854-3679.**COMMUNICATIONS:** CTAF/UNICOM 122.7

DENVER CENTER APP/DEP CON 118.475

RADIO AIDS TO NAVIGATION: NOTAM FILE SNY.

SIDNEY (H) VORTAC 115.9 SNY Chan 106 N41°05.80'

W102°58.98' 121° 45.2 NM to fld. 4300/13E.

**HOPKINS FLD** (See NUCLA)**HUDSON****PLATTE VALLEY AIRPARK** (18V) 3 NW UTC-7(-6DT) N40°06.16' W104°42.07'

CHEYENNE

4965 S2 FUEL 100LL NOTAM FILE DEN

L-10F, A

RWY 15-33: H4100X40 (ASPH) LIRL

RWY 33: Ground.

RWY 09-27: 2500X90 (TURF-GRVL)

RWY 09: Ground. RWY 27: Road.

AIRPORT REMARKS: Attended daylight hours. 24 hr credit card svc avbl. Rwy 09-27 has -3' ditch 45' north of rwy edge full length. Rwy 09 has a detention pond 110' left of centerline and 175' east of the thld. Twy intersects Rwy 09-27 midfield. ACTIVATE LIRL Rwy 15-33—CTAF.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEN.

MILE HIGH (H) VORTACW 114.7 DVV Chan 94 N39°53.68' W104°37.46' 333° 13.0 NM to fld. 5270/11E.

HUGO N38°49.05' W103°37.28' NOTAM FILE DEN.

WICHITA

(H) VORTACW 112.1 HGO Chan 58 344° 27.5 NM to Limon Muni. 5233/12E.

H-5A, L-10F

IRONHORSE N38°40.70' W104°45.20' NOTAM FILE FCS.

DENVER

NDB (MHW) 335 IHS at Butts AAF (Fort Carson). Unmonitored Jan 1 and Dec 25.

L-10F

NDB unusable 210°-300° byd 20 NM blo 20,000'.

JEFFCO N39°54.78' W105°08.34' NOTAM FILE BJC **DENVER**
 (H) **VOR/DME** 115.4 BJC Chan 101 093° 1 NM to Rocky Mountain Metropolitan 5728/11E. **H-3E, 5A, L-10F, A**
 VOR portion unusable:
 226°-245° byd 36 NM blo 17,000'
 246°-278° byd 30 NM blo 19,000'
 279°-300° byd 34 NM blo 18,000'
 DME portion unusable:
 246°-278° byd 30 NM

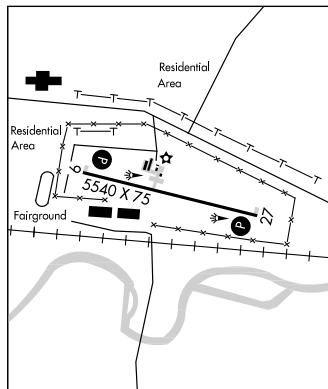
JULESBURG MUNI (7V8) 3 SW UTC-7(-6DT) N40°58.22' W102°18.92' **CHEYENNE**
 3495 B NOTAM FILE DEN **L-10G, 12G**
RWY 13-31: H4100X60 (ASPH) S-12 MIRL
RWY 13: Thld dsplcd 284'. Antenna.
AIRPORT REMARKS: Unattended. For svc and assistance call Sheriffs office 303-474-3355. City Clerks Office after hours phone 970-474-2124. Wildlife on and invof arpt. Rwy 13-31 used for drag racing Apr-Sep. Rwy 13 has +4' fence 350' from dsplcd thld, +18' road 410' from dsplcd thld. 3' railing 112' north side of rwy, full length. Twy clsd use rwy for back taxi. MIRL Rwy 13-31 preset medium ints dusk-dawn.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE SNY.
SIDNEY (H) VORTAC 115.9 SNY Chan 106 N41°05.80' W102°58.98' 091° 31.3 NM to fld. 4300/13E.

KIT CARSON CO (See BURLINGTON)

KREMMLING N40°00.16' W106°26.55' NOTAM FILE DEN. **CHEYENNE**
 (H) **VOR/DME** 113.8 RLG Chan 85 034° 4.6 NM to Mc Elroy Airfield. 9370/14E. **H-3E, 5A, L-9E, 11E**
 DME unusable 285°-305° byd 34 NM blo 16,300'
RCO 122.3 (DENVER RADIO)

KREMMLING

MC ELROY AIRFIELD (2ØV) 1 E UTC-7(-6DT) N40°03.22' W106°22.14' **CHEYENNE**
 7411 B S2 **FUEL** 100LL, JET A NOTAM FILE 20V **H-3E, 5A, L-9E, 11E**
RWY 09-27: H5540X75 (ASPH) S-46, D-68 MIRL 0.3% up E **IAP**
RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Fence.
RWY 27: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Mountain. Rgt tfc.
AIRPORT REMARKS: Attended 1500-0030Z±. 24 hr fuel svc—credit card. Rwy 27 +8' wildlife fence parallel to rwy 270' left of centerline. Mountain terrain surrounds arpt. ACTIVATE MIRL Rwy 09-27 and PAPI and REIL Rwy 09 and Rwy 27—CTAF. Overngt tiedown fee.
WEATHER DATA SOURCES: AWOS-3 118.425 (970) 724-9659.
COMMUNICATIONS: CTAF/UNICOM 122.8
DENVER CENTER APP/DEP CON 128.65
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
KREMMLING (H) VOR/DME 113.8 RLG Chan 85 N40°00.16' W106°26.55' 034° 4.6 NM to fld. 9370/14E.



LA JUNTA MUNI (LHX) 3 N UTC-7(-6DT) N38°03.00' W103°30.59'

WICHITA
H-5A, L-10F
IAP

4229 B FUEL 100LL, JET A NOTAM FILE LHX
RWY 08-26: H6849X75 (ASPH) S-30, D-50, DT-90 MIRL
 1.1% up W
RWY 08: REIL. VASI(V4L)—GA 3.0° TCH 45'.
RWY 26: REIL. PAPI(P2L)—GA 3.0° TCH 43'.
RWY 12-30: H5803X60 (ASPH-CONC) S-50, D-65, DT-100
 0.5% up NW

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z‡, Sat-Sun 1400-2300Z‡. Antelope on and infov arpt. Rwy 12-30 surface raveling with foreign object damage potential. Be alert, intensive USAF student training infov Colorado Springs and Pueblo Colorado. Rwy 12-30 has loose asph material in primary surface west side of rwy full length. Heavy Air Guard ops during summer months. Rwy 12-30 edge undefined, marked with orange flags. Heavy agricultural ops during summer months. Rwy 08 REIL OTS indef. Rwy 26 PAPI OTS indef. ACTIVATE MIRL Rwy 08-26, VASI Rwy 08, PAPI Rwy 26 and REIL Rwy 08 and Rwy 26—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS 135.525 (719) 384-5961.

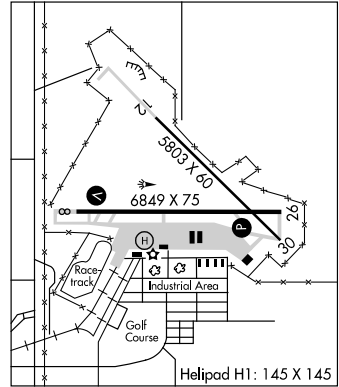
COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.6 (DENVER RADIO)
 DENVER CENTER APP/DEP CON 128.35

RADIO AIDS TO NAVIGATION: NOTAM FILE LAA.

LAMAR (H) VORTAC 116.9 LAA Chan 116 N38°11.83' W102°41.25' 245° 39.9 NM to fld. 3944/12E.

HELIPAD H1: H145X145 (ASPH)



LAKE CO (See LEADVILLE)

LAMAR MUNI (LAA) 3 SW UTC-7(-6DT) N38°04.18' W102°41.31'

WICHITA
H-5A, L-10G
IAP

3706 B S4 FUEL 100LL, JET A OX 1, 3 ARFF Index Ltd. NOTAM FILE LAA
RWY 18-36: H6304X100 (CONC-GRVD) S-45, D-55, DT-100 MIRL 0.4% up S
RWY 18: REIL. VASI(V4L)—GA 3.0° TCH 41'. Road.
RWY 36: REIL. PAPI (P4L). Hill.
RWY 08-26: H5001X60 (ASPH-PFC) S-35, D-50, DT-95 MIRL
RWY 08: PAPI(P2L)—GA 3.0°. Road.
RWY 26: PAPI(P2L)—GA 3.0°. Fence.

AIRPORT REMARKS: Attended 1500-0100Z‡. For svc after hours phone 719-336-7701. Be alert, intensive USAF student training infov Colorado Springs and Pueblo Colorado. Rwy 18-36 now has distance remaining signs. Twr 500' AGL 4.5 mile SE unlighted. ACTIVATE MIRL Rwy 08-26 and Rwy 18-36—CTAF. NOTE: See Special Notices—Aerobatic Operations in Colorado. USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

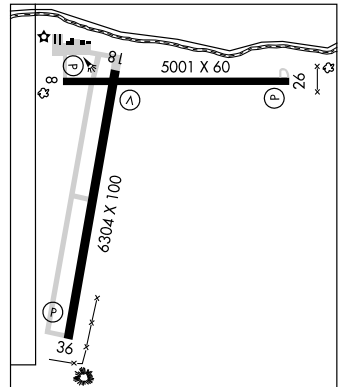
WEATHER DATA SOURCES: ASOS 135.625 (719) 336-3854.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.1R 116.9T (DENVER RADIO)
 DENVER CENTER APP/DEP CON 133.4

RADIO AIDS TO NAVIGATION: NOTAM FILE LAA.

(H) VORTAC 116.9 LAA Chan 116 N38°11.83' W102°41.25' 168° 7.6 NM to fld. 3944/12E.



LAS ANIMAS

CITY OF LAS ANIMAS—BENT COUNTY

3915 S4 NOTAM FILE DEN
 RWY 08—26: H3870X40 (ASPH) S—5
 RWY 08: Fence. RWY 26: Road.

WICHITA
 L-10F

AIRPORT REMARKS: Attended Monday—Saturday 1500—0000Z. Be alert, intensive USAF student training in vol Colorado Springs and Pueblo Colorado. Rwy 26 has +30' poles 105' from thld 210' left of extd rwy centerline, +15' tank 321' from rwy end 270' right of centerline. Thld lgts NSTD; three lgts each end. Thld lgts OTS indef. Rwy 08 thld lgts 23' from thld. Rwy 26 thld lgts 12' from thld. Rwy 08 numbers located 216' from pavement end, Rwy 08—26 numbers smaller than standard, no centerline markings. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LAA.

LAMAR (H) VORTAC 116.9 LAA Chan 116 N38°11.83' W102°41.25' 240° 27.5 NM to fld. 3944/12E.

LA VETA

CUCHARA VALLEY AT LA VETA (Ø7V) 1 N UTC—7(—6DT) N37°31.43' W105°00.56'

DENVER
 H—5A, L—10F, 15A

7153 B FUEL 100LL, JET A NOTAM FILE DEN

RWY 06—24: H5798X60 (ASPH) MIRL (NSTD)

RWY 06: Thld dsp lcd 250'. RWY 24: Thld dsp lcd 198'. Fence.

AIRPORT REMARKS: Attended on call. For attendant call 719—742—3291 or 3747. Wildlife on and in vol Rwy 06—24, higher occurrence during Jun—Oct. Be alert, intensive USAF student training in vol Colorado Springs and Pueblo Colorado. Rwy 06—24 has severe cracking on ramp and rwy. NSTD MIRL, Rwy 06 first 96' unlighted, Rwy 24 first 92' unlighted. ACTIVATE MIRL Rwy 06—24—122.7. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE ALS.

ALAMOSA (H) VORTACW 113.9 ALS Chan 86 N37°20.95' W105°48.93' 062° 39.9 NM to fld. 7535/13E.

LA VETA PASS VTP N37°30.72' W105°10.23'/10216.

DENVER
 L—10F, 15A

AWOS—3 119.925 719—587—3120.

LEACH (See CENTER)

LEADVILLE

LAKE CO (LXV) 2 SW UTC—7(—6DT) N39°13.22' W106°19.00'

DENVER
 H—3E, 5A, L—9E
 IAP

9927 B FUEL 100LL, JET A NOTAM FILE LXV

RWY 16—34: H6400X75 (ASPH) S—20, D—20 MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 45'. Rgt tfc.

RWY 34: PAPI(P2L)—GA 3.0° TCH 45'.

AIRPORT REMARKS: Attended May—Oct 1430—0100Z, Nov—Apr 1500—0000Z. For svc after hrs call sheriff dispatch 719—486—1249. Rwy 34 has +50' power lines 750' from right of threshold. All taxiways and new ramp area marked with blue and white reflectors. Twy turnoff have lgts and blue reflectors. PPR for svc after hours call 719—293—5110. ACTIVATE MIRL Rwy 16—34 and PAPI Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: ASOS 118.375 (719) 486—2735.

COMMUNICATIONS: CTAF/UNICOM 122.8

DENVER CENTER APP/DEP CON 119.85

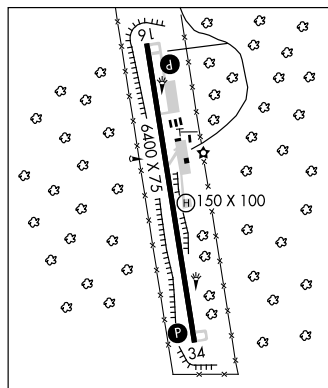
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

RED TABLE (H) VORW/DME 113.0 DBL Chan 77 N39°26.36' W106°53.68' 104° 29.9 NM to fld. 11800/12E.

• • • • •

HELIPAD H1: H150X100 (CONC)

HELIPORT REMARKS: Rwy H1 has 6—8 inch lip all around edges, concrete has longitudinal and corner cracking. Edge falling apart. Rwy H1 has 20' to 30' trees 90° east of pad.



LIMON MUNI (LIC) 1 NE UTC-7(-6DT) N39°16.49' W103°39.95'

WICHITA

5374 B S2 FUEL 100LL NOTAM FILE LIC

L-10F

RWY 16-34: H4700X60 (CONC) S-12.5 MIRL

RWY 16: PAPI(P2L) Trees.

RWY 34: PAPI(P2L)—GA 3.0° TCH 40'. Trees.

AIRPORT REMARKS: Unattended. For fuel svc call Limon Police Dept at 719-775-2346/9211. Deer on and infov arpt. Be alert, intensive USAF student training infov Colorado Springs and Pueblo Colorado. Uncontrolled vehicle access to fld. Rwy 16 has 3000' twy leading into the South end. Twy marked with blue reflectors. ACTIVATE MIRL Rwy 16-34 and PAPI Rwy 16 and Rwy 34—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS 121.125 (719) 775-0515.

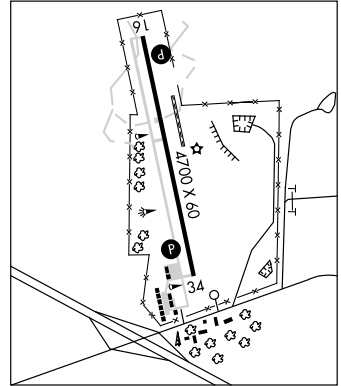
COMMUNICATIONS: CTAF 122.9

RCD 122.475 (DENVER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

HUGO (H) VORTACW 112.1 HGO Chan 58 N38°49.05'

W103°37.28' 344° 27.5 NM to fld. 5233/12E.



LONGMONT

VANCE BRAND (LMO) 3 SW UTC-7(-6DT) N40°09.86' W105°09.82'

CHEYENNE

5055 B S4 FUEL 100LL, JET A, MOGAS NOTAM FILE DEN

L-10F, A

RWY 11-29: H4800X75 (CONC) S-30 MIRL 0.5% up NW

IAP

RWY 11: VASI(V4L)—GA 3.0° TCH 37'. Road.

RWY 29: VASI(V4L)—GA 3.0° TCH 37'. Trees.

AIRPORT REMARKS: Attended dalgt hours. Parachute Jumping.

Parajumping on and infov arpt primarily S of rwy, avoid overflights midfield. Ultralight and helicopter activity on and infov arpt. Be alert, intensive USAF student training infov Colorado Springs and Pueblo Colorado. Prairie dogs on and infov rwy. Rwy 29 has +15' highway 702' from thld, +25' to 35' buildings/tanks approximately 1300' left of thld. ACTIVATE MIRL Rwy 11-29 and VASI Rwy 11 and 29—CTAF. NOTE: See Special Notices—Aerobatic Operations in Colorado, USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 120.0 (303) 684-7545.

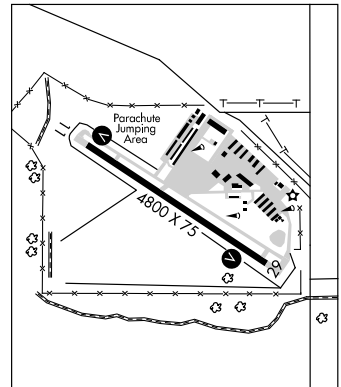
COMMUNICATIONS: CTAF/UNICOM 122.975

® DENVER APP/DEP CON 126.1

RADIO AIDS TO NAVIGATION: NOTAM FILE BJC.

JEFFCO (H) VORW/DME 115.4 BJC Chan 101 N39°54.78'

W105°08.34' 345° 15.1 NM to fld. 5728/11E.



MACK MESA (CØ7) 3 N UTC-7(-6DT) N39°16.09' W108°51.84'

DENVER

4724 S4 FUEL 100LL NOTAM FILE DEN

RWY 07-25: H2600X60 (ASPH)

AIRPORT REMARKS: Attended dalgt hours.

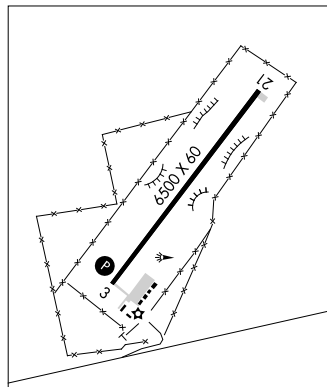
COMMUNICATIONS: CTAF 122.9

MC ELROY AIRFIELD (See KREMMLING)

MEADOW LAKE (See COLORADO SPRINGS)

MEEKER (EEO) 2 E UTC-7(-6DT) N40°02.93' W107°53.16'
 6421 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE EEO
RWY 03-21: H6500X60 (ASPH) S-21, D-27 MIRL 0.6% up NE
RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Rgt tfc.
AIRPORT REMARKS: Attended continuously. Deer and elk and waterfowl
 invof arpt, wildlife fence surrounds arpt. Mountains surround arpt.
 ACTIVATE MIRL Rwy 03-21, PAPI and REIL Rwy 03—CTAF.
WEATHER DATA SOURCES: ASOS 135.525 (970) 878-5036.
COMMUNICATIONS: CTAF/UNICOM 122.8
 RCO 122.15 (DENVER RADIO)
 DENVER CENTER APP/DEP CON 134.5
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
 (H) VORW/DME 115.2 EKR Chan 99 N40°04.05'
 W107°55.49' 107° 2.1 NM to fld. 7620/15E.

CHEYENNE
 H-3E, L-9E, 11E
 IAP



MERTZ N38°17.04' W104°38.82' NOTAM FILE PUB.
 NDB (LOM) 302 PU 076° 7.1 NM to Pueblo Mem.

DENVER

MILE HIGH N39°53.68' W104°37.46' NOTAM FILE DEN.
 (H) VORTACW 114.7 DVV Chan 94 211° 2.9 NM to Denver Intl. 5270/11E.

DENVER
 H-3E, 5A, L-10F, A

MINERAL CO MEM (See CREEDE)

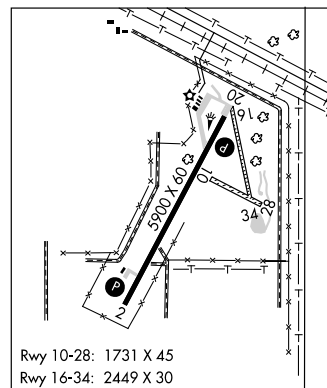
MONARCH PASS MYP N38°29.83' W106°19.18'/12030.
 AWOS-3 124.175 719-539-4436.

DENVER
 L-9E

MONTE VISTA MUNI (MVI) 5 SE UTC-7(-6DT) N37°31.71' W106°02.76'
 7611 B FUEL 100LL, JET A NOTAM FILE DEN
RWY 02-20: H5900X60 (ASPH) S-12.5 MIRL
RWY 02: PAPI(P2L). **RWY 20:** PAPI(P2L). Bldg.
RWY 16-34: 2449X30 (DIRT)
RWY 16: Antenna. **RWY 34:** Fence.
RWY 10-28: 1731X45 (DIRT)
RWY 10: Road. **RWY 28:** Trees.

DENVER
 H-3E, 5A, L-8J, 9E
 IAP

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z, Sat-Sun on call.
 For svc after hours call 719-852-3241. Unlimited vehicle use on
 arpt. Rwy 02 has a 4' fence 280' from rwy end 4' below rwy end
 elevation. Rwy 10-28 and Rwy 16-34 has +4' weeds on both
 sides of rwy, 4' weeds at intersection of Rwy 34 and Rwy 28. Rwy
 10-28 has +1 to +2' dirt windrow along N edge. Rwy 10-28 use
 for extreme crosswind conditions only, rwy not maintained. Rwy
 16-34 sandy and soft and Rwy 10-28 soft when wet. Rwy 02-20
 has soft shoulders. Rwy 16-34 has loose and soft sand surface.
 Rwy 16 +25' bin 875' from thld 30' rgt. Ctc arpt manager
 719-852-3386 prior to use. Used by crop dusters. 50' antenna
 located N side of rwy, immediately E of apch surface. ACTIVATE
 MIRL Rwy 02-20 and PAPI Rwy 02 and Rwy 20—CTAF.



Rwy 10-28: 1731 X 45
 Rwy 16-34: 2449 X 30

COMMUNICATIONS: CTAF/UNICOM 122.8
 ALAMOSA RCO 122.15 (DENVER RADIO)
 DENVER CENTER APP/DEP CON 128.375

RADIO AIDS TO NAVIGATION: NOTAM FILE ALS.

ALAMOSA (H) VORTACW 113.9 ALS Chan 86 N37°20.95' W105°48.93' 301° 15.4 NM to fld. 7535/13E.

MONTROSE RGNL (MTJ) 1 NW UTC-7(-6DT) N38°30.59' W107°53.66'

DENVER

5759 B S4 FUEL 100LL, JET A+ OX 1, 3 Class I, ARFF Index B NOTAM FILE MTJ

H-3E, L-9E

RWY 17-35: H10000X150 (ASPH-GRVD) S-75, D-190, DT-265 HIRL

IAP

RWY 17: MALSR. PAPI(P4L)—GA 3.0° TCH 55'. 0.5% up.

RWY 35: REIL. PAPI(P4L)—GA 3.0° TCH 41'. 0.3% down.

RWY 13-31: H7500X100 (ASPH-GRVD) S-65, D-90,
DT-150 HIRL

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 42'. Tree. 0.8% up.

RWY 31: REIL. VASI(V4L)—GA 3.0° TCH 40.7'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 13: TORA-7500 TODA-10000 ASDA-7500 LDA-7500

RWY 17: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY 31: TORA-7500 TODA-7500 ASDA-7500 LDA-7500

RWY 35: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

AIRPORT REMARKS: Attended Apr 1–Dec 15 1230–0400Z†, Dec 16–Mar 31 1200–0400Z†. Migratory birds and wildlife on and invof arpt. 24 hour PPR for unscheduled acft ops with more than 30 passenger seats call arpt manager 970-249-7953. Twy B clsd to acft over 12,500 lbs. Air carrier acft requested to access terminal ramp via Twy C, outbound traffic Twy D. Ramp connector adjacent to T hangar row clsd indef. Twy E, E6 clsd except acft with wingspan less than 78'. Preferred tkf Rwy 31 and Rwy 35 and ldg Rwy 13 and Rwy 17. Rwy 17–35 preferred rwy for acft with approach speed greater than 121 kts. ACTIVATE HIRL Rwy 17–35 and Rwy 13–31, MALSR Rwy 17, and REIL Rwy 13, Rwy 31 and Rwy 35—CTAF. REIL Rwy 13 OTS indef.

WEATHER DATA SOURCES: ASOS 135.225 (970) 249-1534.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.65 (DENVER RADIO)

® DENVER CENTER APP/DEP CON 125.35

AIRSPACE: CLASS E svc 1300-0400Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MTJ.

(H) VORW/DME 117.1 MTJ Chan 118 N38°30.39' W107°53.96' at fld. 5710/12E.

VOR unusable 205°–230° byd 30 NM blo 13,000'.

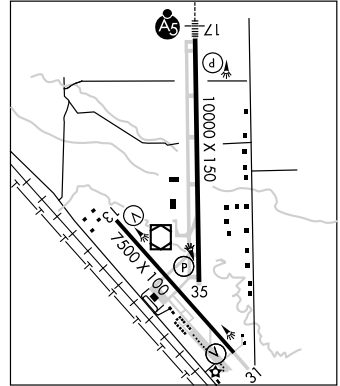
DME unusable 005°–090° byd 33 NM blo 16,000',

115°–120° byd 31 NM blo 17,500'.

200°–217° byd 25 NM blo 15,000'.

217°–245° byd 25 NM blo 14,000'.

ILS 111.3 I-MTJ Rwy 17.

**MONUMENT HILL** MNH N39°13.13' W104°38.43'/7060.

DENVER

AWOS-3 134.375 303-648-3479.

L-10F

MOUNT WERNER (3MW) N40°26.95' W106°44.95'/10384.

DENVER

AWOS-3 127.125 970-871-5640.

L-9E

MOVIE MANOR (See MONTE VISTA)**NORTH FORK VALLEY** (See PAONIA)**NUCLA****HOPKINS FLD** (AIB) 2 SW UTC-7(-6DT) N38°14.33' W108°33.80'

DENVER

5940 B S2 FUEL 100LL, JET A NOTAM FILE DEN

L-9D

RWY 05-23: H4600X75 (ASPH) S-9 MIRL 0.9% up NE

IAP

RWY 11-29: 4000X80 (TURF-DIRT) 0.7% up SE

RWY 11: Road. RWY 29: Fence.

AIRPORT REMARKS: Attended 1500-0000Z†. +30' p-lines in hangar area. Migratory birds, wildlife and deer on and invof arpt. Twy is marked with blue reflectors. Lgtd twy signs. Rwy 29 +30' hill 408' from thld on extended centerline, -75' terrain at thld.

WEATHER DATA SOURCES: AWOS-3 132.525 (970) 864-2325.**COMMUNICATIONS:** CTAF/UNICOM 122.8

DENVER APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

DOVE CREEK (H) VORTACW 114.6 DVC Chan 93 N37°48.53' W108°55.88' 020° 31.1 NM to fld. 6990/14E.

COMM/NAV/WEATHER REMARKS: UNICOM answered by Sheriff Dispatch, avbl 24 hrs.

PAGOSA SPRINGS

STEVENS FLD (PSO) 3 NW UTC-7(-6DT) N37°17.18' W107°03.36'

DENVER

7664 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE DEN

H-4J, L-8I, 9E

RWY 01-19: H8100X100 (ASPH) S-59, D-70 MIRL

IAP

RWY 01: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Trees. RWY 19: REIL. PAPI(P4R)—GA 3.0° TCH 40'. Trees.

AIRPORT REMARKS: Attended 1500-0000Z†. Wildlife on and invof arpt. Balloon ops invof arpt. Twy B clsd to acft 12,500 pounds and over. Twy A2 connector to north ramp clsd. Tie downs ltd, call FBO 970-731-2127 for availability. +60' to 75' trees along sides of Rwy 01-19 outside primary surface. ACTIVATE MIRL Rwy 01-19 PAPI and REIL Rwy 19—CTAF.

WEATHER DATA SOURCES: AWOS-3 127.175 (970) 731-0365

COMMUNICATIONS: CTAF/UNICOM 122.7

DENVER CENTER APP/DEP CON 118.575

RADIO AIDS TO NAVIGATION: NOTAM FILE DRO.

DURANGO (L) VORW/DME 108.2 DRO Chan 19 N37°09.20' W107°44.98' 062° 34.2 NM to fld. 6660/14E.

PAONIA

NORTH FORK VALLEY (7V2) 3 SW UTC-7(-6DT) N38°49.88' W107°38.75'

DENVER

5798 S4 FUEL 100LL TPA—6598(800) NOTAM FILE DEN

L-9E

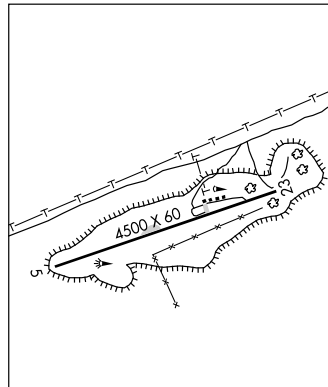
RWY 05-23: H4500X60 (ASPH) S-21 LIRL (NSTD)

AIRPORT REMARKS: Attended Mon-Fri 1500-0100Z†, Sat-Sun irregularly. 24 hr self serve fuel avbl. Deer on and in vicinity of rwy. Rwy 05-23 CLOSED to touch and go landings. Rwy 05-23 has -50' to 75' terrain dropoff on both sides at various locations the entire length of rwy. Rwy 23 has -60' drop off at thld and within 30' of centerline at various locations. Two clear lgts indicate apron turnoff. Rwy 05-23 NSTD LIRL ops from dusk-0800Z†. Rwy 05-23 NSTD LIRL-bulbs in clear glass jars, NSTD thld lgts 2 clear thld lgts at each rwy end.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

BLUE MESA (H) VORW/DME 114.9 HBU Chan 96 N38°27.13' W107°02.39' 295° 36.4 NM to fld. 8730/14E.



PERRY STOKES (See TRINIDAD)

PETEY N38°41.66' W104°42.98' NOTAM FILE COS.

DENVER

NDB (MHW/LOM) 407 CO 354° 6.7 NM to City of Colorado Springs Muni.

L-10F

PLATTE VALLEY AIRPARK (See HUDSON)

PUEBLO MEM (PUB) 5 E UTC-7(-6DT) N38°17.35' W104°29.79'

DENVER

4726 B S4 FUEL 100LL, JET A Class II, ARFF Index A NOTAM FILE PUB

H-5A, L-10F

RWY 08L-26R: H10496X150 (ASPH-PFC) S-75, D-170, ST-175, DT-250 HIRL

IAP, AD

RWY 08L: MALSR. PAPI(P4L)—GA 3.0° TCH 63'.

RWY 26R: REIL. PAPI(P4L)—GA 3.0° TCH 59'. 0.4% up.

RWY 17-35: H8308X150 (ASPH-PFC) S-93, D-110, ST-140,
DT-170 MIRL

RWY 17: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 0.9% down.

RWY 35: REIL. PAPI(P4L)—GA 3.0° TCH 45'. 1.0% up.

RWY 08R-26L: H3767X75 (ASPH) S-20 0.3% up W

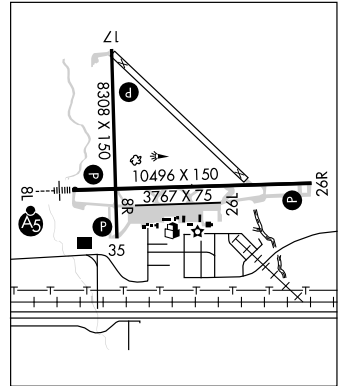
RWY 08R: Rgt tfc. RWY 26L: Gnd.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 17	08L-26R	5850
RWY 26R	17-35	8300

RUNWAY DECLARED DISTANCE INFORMATION

RWY 08L:	TORA-10496	TODA-10496	ASDA-10496	LDA-10496
RWY 08R:	TORA-3767	TODA-3767	ASDA-3767	LDA-3767
RWY 17:	TORA-8308	TODA-8308	ASDA-8308	LDA-8308
RWY 26L:	TORA-3767	TODA-3767	ASDA-3767	LDA-3767
RWY 26R:	TORA-10496	TODA-10496	ASDA-10496	LDA-10496
RWY 35:	TORA-8308	TODA-8308	ASDA-8308	LDA-8308



AIRPORT REMARKS: Attended 1300-0500Z†. For fuel after hours call 719-948-4560/2447 or use 100LL

self-svc. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Frequent usage of Rwy 08R-26L after SS by unlgtd mil tran acct. Rwy 08R-26L avbl to acct under 12,500 pounds during dalgt hours. High volume training DA-20 acct Mon-Fri SR-SS. Overhead pat during training.

Extensive use of training area 12-28 DME north to southwest of aprt 500' AGL to 8500' MSL Mon-Fri SR-SS. Rwy 08R-26L unlighted and unavbl at ngt. Rwy 08R-26L has blue twy edge lgts on N edge. When twr closed ACTIVATE HIRL Rwy 08L-26R, MIRL Rwy 17-35, MALSR Rwy 08L, PAPI Rwy 08L, Rwy 26R, Rwy 17, Rwy 35 and REIL Rwy 26R and Rwy 17—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS (719) 948-2803.

COMMUNICATIONS: CTAF 119.1 ATIS 125.25

UNICOM 122.95

RCO 122.2 (DENVER RADIO)

Ⓡ DENVER APP/DEP CON 120.1 (1300-0500Z†)

Ⓡ DENVER CENTER APP/DEP CON 128.375 (0500-1300Z†)

TOWER 119.1 (1300-0500Z†) GND CON 121.9 CLNC DEL 120.9

AIRSPACE: CLASS D svc effective 1300-0500Z† other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE PUB.

(H) VORTACW 116.7 PUB Chan 114 N38°17.66' W104°25.77' 251° 3.2 NM to fld. 4760/13E.

MERTZ NDB (LOM) 302 PU N38°17.04' W104°38.82' 076° 7.1 NM to fld.

ARUBA NDB (MHW/LOM) 373 TF N38°17.45' W104°21.30' 258° 6.7 NM to fld.

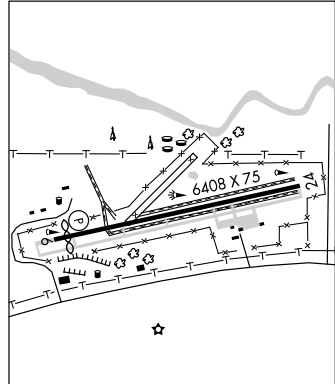
ILS 108.3 I-TFR Rwy 26R. Class IE. LOM ARUBA NDB.

ILS 109.5 I-PUB Rwy 08L. Class IE. LOM MERTZ NDB. Unmonitored when twr closed.

ASR (1300-0500Z†)

RANGELY (4V0) 2 E UTC-7(-6DT) N40°05.64' W108°45.78'
 5275 B FUEL 100LL NOTAM FILE DEN
RWY 06-24: H6408X75 (ASPH) S-28, D-28 MIRL
RWY 06: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Thld dspcd 300'.
 Road. Rgt tfc.
RWY 24: REIL. Road.
AIRPORT REMARKS: Attended continuously. Self-service fuel avbl with credit card. For svc call 970-675-2316. Minor emergency services upon request. Monitor 123.5 for training ops at arpt. Three flashing hazard bcns outline obstruction hills east. Rwy 06-24 shoulders soft when wet. Deer periodically on and in vicinity of arpt. +60 trees 2300' from Rwy 06. Twy marked with yellow reflectors. ACTIVATE MIRL Rwy 06-24 and REIL Rwy 06 and Rwy 24—CTAF. PAPI Rwy 06 opr continuously.
WEATHER DATA SOURCES: AWOS-3 122.8 (617) 262-3825. OTS indef.
COMMUNICATIONS: CTAF/UNICOM 122.8
 RCO 122.65 (DENVER RADIO)
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
MEEKER (H) VORW/DME 115.2 EKR Chan 99 N40°04.05'
 W107°55.49' 258° 38.6 NM to fld. 7620/15E.

CHEYENNE
 H-3E, L-9D, 11E



RED TABLE N39°26.36' W106°53.68' NOTAM FILE DEN.
 (H) VORW/DME 113.0 DBL Chan 77 356° 12.3 NM to Eagle Co. Rgnl. 11800/12E.

DENVER
 H-3E, L-9E

RED TABLE MOUNTAIN N39°26.61' W106°54.16'
 RCO 122.4 (DENVER RADIO)

DENVER
 L-9E

RIFLE N39°31.69' W107°42.98' NOTAM FILE RIL.
 (L) VORW/DME 110.6 RIL Chan 43 at Garfield Co Rgnl 5529/12E.

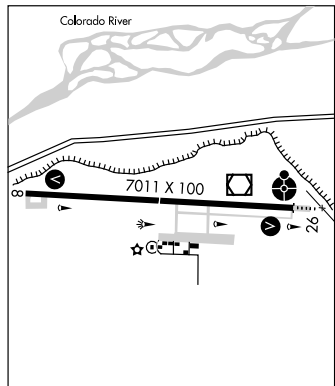
DENVER
 H-3E, L-9E

- VOR portion unusable:
 051°-100° byd 30 NM blo 14,000' 231°-324° byd 30 NM blo 15,000'
 101°-190° byd 30 NM blo 15,000' 325°-050° byd 30 NM blo 16,000'
 191°-230° byd 30
 DME portion unusable:
 Byd 30 NM 261°-280° byd 20 NM blo 13,000'
 041°-220° byd 20 NM blo 14,000' 281°-040° byd 20 NM blo 12,000'
 221°-260° byd 20 NM blo 12,000'
 RCO 122.5 (DENVER RADIO)

RIFLE

GARFIELD CO RGNL (RIL) 3 E UTC-7(-6DT) N39°31.58' W107°43.62'
 5548 B S4 FUEL 100LL, JET A OX 1, 4 NOTAM FILE RIL
RWY 08-26: H7011X100 (ASPH-GRVD) S-70, D-85, ST-108, DT-137 MIRL 1.2% up E
RWY 08: REIL. VASI(V2L)—GA 3.0° TCH 51'.
RWY 26: ODALS. REIL. VASI(V2L)—GA 3.5° TCH 51'. Hill. Rgt tfc.
AIRPORT REMARKS: Attended continuously. Fuel avbl 24 hrs, self-service. Rwy 08-26 slick when wet, arpt manager recommends ldg uphill on Rwy 08 when able. After winter snow storms arpt opens before all twys are clear. User fee for acct 12,500 lbs or more. Overnight parking fee. ACTIVATE MIRL Rwy 08-26, ODALS Rwy 26, and REIL Rwy 08 and Rwy 26 and VASI Rwy 08 and Rwy 26—CTAF.
WEATHER DATA SOURCES: ASOS 135.275 (970) 625-2206.
COMMUNICATIONS: CTAF/UNICOM 122.8
 DENVER CENTER APP/DEP CON 134.5
RADIO AIDS TO NAVIGATION: NOTAM FILE RIL.
RIFLE (L) VORW/DME 110.6 RIL Chan 43 N39°31.69'
 W107°42.98' at fld. 5529/12E.
ILS/DME 110.9 I-RIL Chan 46 Rwy 26.

DENVER
 H-3E, L-9E
 IAP



ROBERT N40°27.82' W106°52.34' NOTAM FILE DEN. **CHEYENNE**
 (L) **VOR/DME** 112.2 BQZ Chan 59 352° 3.2 NM to Steamboat Springs/Bob Adams Fld. 8254/13E. **L-9E, 11E**
 VOR portion unusable:
 010°-036° byd 30 NM blo 16,000' 037°-090° byd 30 NM blo 14,500'
 DME portion unusable:
 010°-036° byd 30 NM 090°-135° byd 25 NM blo 15,000'
 037°-090° byd 20 NM

ROCKY MOUNTAIN METROPOLITAN (See DENVER)

SAGUACHE MUNI (Ø4V) 2 NW UTC-7(-6DT) N38°05.96' W106°10.47' **DENVER**
 7826 NOTAM FILE 04V
RWY 10-28: 7745X55 (GRVL)
 RWY 10: Road. **RWY 28:** Road.
AIRPORT REMARKS: Unattended. Wildlife on and in/ov arpt. Unlimited vehicle use on arpt. Rwy 28 has -5' ditch 288' from thld OB and -4' terrain 70' left of centerline at thld. Dirt hills +8' to +15' 215' north of rwy. Numerous prairie dog holes on rwy edge near Rwy 28 end. Rwy 10-28 has +2' bushes along rwy edge in various places. Rwy 10-28 soft when wet. For current arpt conditions ctc arpt manager 719-655-2321. Rwy 10-28 has rwy numbers 55' by 75' asph pads on each rwy end.
WEATHER DATA SOURCES: AWOS-3 118.625 (719) 655-2229.
COMMUNICATIONS: CTAF 122.9

SALIDA

HARRIET ALEXANDER FLD (ANK) 2 W UTC-7(-6DT) N38°32.30' W106°02.92' **DENVER**
 7523 B **FUEL** 100LL, JET A NOTAM FILE DEN **H-3E, 5A, L-9E**
RWY 06-24: H7347X75 (ASPH) S-30, D-60 MIRL 1.9% up W **IAP**
 RWY 24: VASI(V2L)—GA 3.2° TCH 55'.
AIRPORT REMARKS: Attended 1500-0000Z±. Fuel avbl with credit card. Hang-gliding ops in the Mt Princeton area and 6 miles E of arpt along the ridge. Be alert, intensive USAF student training in/ov Colorado Springs and Pueblo Colorado. During high wind conditions downdrafts approaching Rwy 24. Rwy 24 recommended for landing. Rwy 06 for departure weather and tfc permitting. 6-7 inch lip at pavement edges on apron west of fuel pumps. Rwy 06 +60' Powerline marked with orange balls 630' from thld, 435' left of rwy extended centerline. ACTIVATE MIRL Rwy 06-24 and VASI Rwy 24—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
WEATHER DATA SOURCES: AWOS-3 133.85 (719) 539-5268.
COMMUNICATIONS: CTAF/UNICOM 122.7
 DENVER CENTER APP CON 128.375
 DENVER CENTER DEP CON 119.85
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
 BLUE MESA (H) VOR/DME 114.9 HBU Chan 96 N38°27.13' W107°02.39' 069° 47.0 NM to fld. 8730/14E.

HELIPAD H1: H36X36 (CONC)

SAN LUIS VALLEY RGNL/BERGMAN FIELD (See ALAMOSA)

SILVER WEST (See WESTCLIFFE)

SKIPI N39°47.51' W104°26.05' NOTAM FILE DEN. **DENVER**
NDB (LOM) 321 FT 255° 5.1 NM to Front Range.

SNOW N39°37.77' W106°59.47' NOTAM FILE DEN. **DENVER**
 (L) **VOR/DME** 109.2 SXW Chan 29 066° 3.5 NM to Eagle Co Rgnl. 8060/12E. **L-9E**
 VOR/DME unmonitored 0600-1300Z±.
 VOR/DME unusable 115°-135°
 VOR portion unusable 310°-355°

SPANISH PEAKS AIRFIELD (See WALSENBURG)

SPRINGFIELD MUNI (8V7) 4 N UTC-7(-6DT) N37°27.52' W102°37.08'

WICHITA

4390 B OX 2, 4 NOTAM FILE DEN

H-5A, L-106, 15B

RWY 17-35: H5000X60 (CONC) S-12.5 MIRL

RWY 17: PAPI(P2L)—GA 3.0° TCH 30'.

RWY 35: PAPI(P2L)—GA 3.0° TCH 30'.

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 09L: TORA-6870 TODA-6870 ASDA-6870 LDA-6870

RWY 27: TORA-687- TODA-6870 ASDA-6870 LDA-6870

AIRPORT REMARKS: Unattended. PAEW in close proximity to rwy. Be alert, intensive USAF student training infov

Colorado Springs and Pueblo Colorado. Twy marked with blue and yellow reflectors. ACTIVATE MIRL and PAPI

Rwy 17-35—CTAF. NOTE: See Special Notices—Aerobatic Operations in Colorado. USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 122.9 (617) 262-3825. OTS indef.

COMMUNICATIONS: CTAF 122.9

DENVER CENTER APP CON 133.4

ALBUQUERQUE CENTER DEP CON 127.85

RADIO AIDS TO NAVIGATION: NOTAM FILE LAA.

LAMAR (H) VORTAC 116.9 LAA Chan 116 N38°11.83' W102°41.25' 164° 44.4 NM to fld. 3944/12E.

STEAMBOAT SPRINGS/BOB ADAMS FLD (SBS) 3 NW UTC-7(-6DT) N40°30.98' W106°51.98'

CHEYENNE

6882 B S2 FUEL 100LL, JET A OX 1, 2, 3, 4 NOTAM FILE SBS

L-9E, 11E

RWY 14-32: H4452X100 (ASPH-GRVD) S-50, D-60 HIRL

IAP

RWY 32: PAPI(P2L)—GA 4.0° TCH 40'. Thld dsplcd 600'. REIL.

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 14: TORA-4452 TODA-4452 ASDA-3852 LDA-3852

RWY 32: TORA-4452 TODA-4452 ASDA-4452 LDA-3852

AIRPORT REMARKS: Attended Nov-Apr 1300-0100Z†, May-Oct

1400-0100Z†. Wildlife on and infov arpt. Hang glider activity on

and in vicinity of arpt. Rwy 32 has -180' dropoff 2000' from pavement end. Sharp dropoffs on sides and ends of runway. Rwy

32 PAPI only visible to 5.5° left of rwy centerline due to high

terrain. CAUTION—snow removal equipment may be on rwy during

snow season; for information ctc UNICOM prior to ldg. ACTIVATE

HIRL Rwy 14-32, PAPI Rwy 32 and REIL Rwy 32—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.325 (970) 879-7794.

COMMUNICATIONS: CTAF/UNICOM 122.8

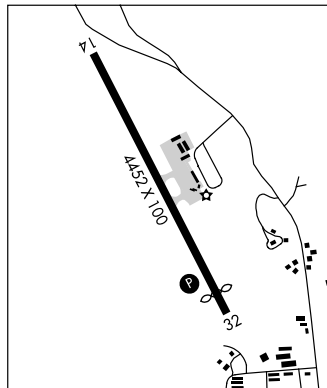
RCO 122.2 (DENVER RADIO)

DENVER CENTER APP/DEP CON 120.475

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

ROBERT (L) VORW/DME 112.2 BQZ Chan 59 N40°27.82'

W106°52.34' 352° 3.2 NM to fld. 8254/13E.



STERLING MUNI (STK) 3 W UTC-7(-6DT) N40°36.92' W103°15.89'

CHEYENNE

4040 B FUEL 100LL, JET A TPA-5040(1000) NOTAM FILE DEN

L-106

RWY 15-33: H4708X75 (CONC) S-30 MIRL 0.3% up NW

IAP

RWY 15: PAPI(P2L)—GA 3.0° TCH 44'. Thld dsplcd 408'. Road.

RWY 33: PAPI(P2L)—GA 3.0° TCH 44'.

RWY 03-21: 2500X150 (TURF-GRVL) 0.3% up NE

RWY 03: Road. RWY 21: Building.

AIRPORT REMARKS: Attended 1500-0000Z†. For after hours svc call

970-520-2325. Aerobatic ops on and infov arpt. Be alert,

intensive USAF student training infov Colorado Springs and Pueblo

Colorado. Taxiways and terminal tiedown area marked with blue

reflectors. Rwy 03 has +4' fence 155' fm thld. Rwy 03-21 ends

marked with red/green reflectors. Varmint holes near Rwy 03 end.

MIRL preset low ints to increase ints—CTAF. NOTE: See Special

Notices—Aerobatic Operations in Colorado. USAF 306 FTG Flight

Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: AWOS-3 118.525 (970) 526-3009.

COMMUNICATIONS: CTAF/UNICOM 122.8

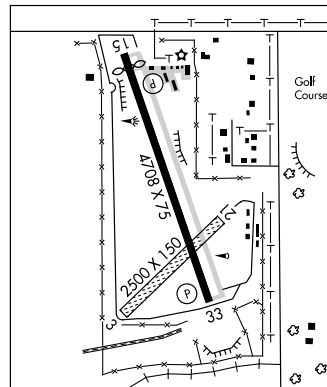
DENVER CENTER APP/DEP CON 118.475

RADIO AIDS TO NAVIGATION: NOTAM FILE AKO.

AKRON (H) VORW/DME 114.4 AKO Chan 91 N40°09.33'

W103°10.79' 339° 27.8 NM to fld. 4620/13E.

BATTEN NDB (MHW) 392 BAJ N40°31.92' W103°13.81' 331° 5.2 NM to fld. NOTAM FILE DEN.



STEVENS FLD (See PAGOSA SPRINGS)

SUNLIGHT MOUNTAIN 5SM N39°25.53' W107°22.75'/10603.
 AWOS-3 126.075 970-384-3380. AWOS visibility unreliable indef.

DENVER
 L-9E

TELLURIDE RGNL (TEX) 5 W UTC-7(-6DT) N37°57.23' W107°54.51'

DENVER

 9070 B **FUEL** 100, JET A OX 1, 2, 3, 4 TPA-10484(1414) Class I, ARFF Index A

H-3E, L-9E

NOTAM FILE TEX

IAF
RWY 09-27: H6870X100 (ASPH-GRVD) S-45, D-62 MIRL

RWY 09: REIL. PAPI(P4L)-GA 3.5° TCH 45'. Hill. Rgt tfc.

RWY 27: REIL. PAPI(P4L)-GA 4.0° TCH 45'. Hill.

RUNWAY DECLARED DISTANCE INFORMATION
RWY 09: TORA-6870 TODA-6870 ASDA-6870 LDA-6870

RWY 27: TORA-6870 TODA-6870 ASDA-6870 LDA-6870

AIRPORT REMARKS: Attended 1400-sunset plus 30 minutes. Arpt CLOSED 30 minutes after SS until 1300Z± or 30

minutes before SR whichever is later. Pilots operating after curfew will be prosecuted. Rising terrain all quadrants. Arpt on 1000' mesa, strong vertical turbulence in area of mesa edge. Rwy 09-27 grade -1.9% to near midpoint then +1.9%. Rwy 09-27 recommended tkf Rwy 27, land Rwy 09. ARFF restricted to FAR 139 design groups AI, AII, AIII, BI and BII. Glider, hang glider and helicopter ops on and in/ovf arpt. No snow removal at ngt. Noise abatement procedures in effect call 970-728-5051. ACTIVATE MIRL Rwy 09-27, PAPI Rwy 09, and Rwy 27. REIL Rwy 09 and Rwy 27-CTAF. Approach light system emergency use only 30 minutes after SS-1300Z± or 30 minutes before SR, whichever is later. Arpt lighting system emerg use only 30 minutes after sunset-1300Z± or 30 minutes before sunrise (whichever is later). Ldg fee.

WEATHER DATA SOURCES: AWOS-3 118.325 (970) 728-1534.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.15 (DENVER RADIO)

DENVER APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

CONES (L) VORW/DME 110.2 ETL Chan 39 N38°02.42' W108°15.52' 095° 17.4 NM to fld. 8460/12E.

Unmonitored.

ILS/DME 109.3 I-TEX Chan 30 Rwy 09. Localizer only. LOC unusable from 1 DME to thld. LOC unusable byd 20° either side of course. DME unusable 20° left and right of course.

THURMAN N39°41.90' W103°12.90' NOTAM FILE DEN.

WICHITA
(L) VORTACW 112.9 TXC Chan 76 207° 33.0 NM to Limon Muni. 4893/12E.

H-5A, L-10G

TOBE N37°15.52' W103°36.00' NOTAM FILE DEN.

WICHITA
(L) VORTACW 111.2 TBE Chan 49 258° 35.5 NM to Perry Stokes. 5730/12E.

H-5A, L-15A

TRINIDAD
PERRY STOKES (TAD) 10 NE UTC-7(-6DT) N37°15.56' W104°20.44'

DENVER

 5762 B **FUEL** 100LL, JET A NOTAM FILE TAD

H-5A, L-10F, 15A
RWY 09-27: 5500X100 (TURF-GRVL)

IAF
RWY 09: Tree.

RWY 03-21: H5498X100 (ASPH) S-37, D-50 MIRL 0.4% up SW

RWY 03: PAPI(P2L) GA 3.0° TCH 36'. **RWY 21:** PAPI(P2L) GA 3.0° TCH 38'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1500-0100Z±. Be alert, intensive USAF student training in/ovf Colorado Springs and Pueblo Colorado. Rwy 09-27 has +3'-6' bushes on edge both sides of rwy along entire length, +40' trees 846' from thld Rwy 09 and 137' right. Rwy 09 +4' bushes, +3' posts within 100' of rwy end on both sides of center. Rwy 09-27 has rough and uneven asphalt at intersection with Rwy 03-21. Rwy 09-27 soft when wet. Rwy 03-15 terrain within 50' on both sides of rwy. Rwy 09-27 various prairie dog holes throughout rwy. Twys have blue/white reflectors at pavement edge. ACTIVATE MIRL Rwy 03-21 and PAPI Rwy 03 and Rwy 21-CTAF. PPR. See Special Notices-USAFA 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.

WEATHER DATA SOURCES: ASOS 119.025 (719) 845-1156.

COMMUNICATIONS: CTAF/UNICOM 122.8

DENVER CENTER APP/DEP CON 128.375

TRINIDAD RCO 122.2 (DENVER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

TOBE (L) VORTACW 111.2 TBE Chan 49 N37°15.52' W103°36.00' 258° 35.5 NM to fld. 5730/12E.

TRINIDAD NDB (HW) 329 TAD N37°18.37' W104°20.00' 177° 2.8 NM to fld. NOTAM FILE TAD. Unmonitored 0100-1500Z±.

TRINIDAD N37°18.37' W104°20.00' NOTAM FILE TAD.

DENVER
NDB (HW) 329 TAD 177° 2.8 NM to Perry Stokes. Unmonitored 0100-1500Z±.

L-10F, 15A
RCO 122.2 (DENVER RADIO)

USAF ACADEMY AFLD (AFF) N38°58.18'W104°48.77' NOTAM FILE DEN. DENVER
 AIRSPACE: CLASS D airspace operates from Mon–Fri SR–SS. Sat 1400–2100Z. Closed Sun and holidays. L–10F
 Other times class G.

VANCE BRAND (See LONGMONT)

WALDEN–JACKSON CO (33V) 1 NE UTC–7(–6DT) N40°45.02' W106°16.29' CHEYENNE
 8153 B FUEL JET A NOTAM FILE DEN H–3E, 5A, L–9E, 11E
 RWY 04–22: H5901X75 (ASPH) S–25 MIRL IAP
 RWY 17–35: 4020X100 (TURF)
 RWY 17: Fence. RWY 35: Road.
AIRPORT REMARKS: Attended on call. Phone 970–723–4660 or 970–723–4481 or 970–846–6971. Rwy 04 +20' powerline 660' from rwy end 750' left of extended centerline. Rwy 04 has –50' dropoff 450' from thld. Radio controlled model acct opr on arpt at SE corner. Occasional deer and antelope on rwys. Rwy 35 +4' fence at thld on centerline, tops of fence posts painted yellow. Rwy 17–35 marked with inoperable rwy edge lgts and orange cones. Rwy 22 number located 125' from pavement end. Restrooms avbl May–Sep on arpt. ACTIVATE MIRL Rwy 04–22—CTAF.
WEATHER DATA SOURCES: AWOS–3 118.625 (970) 723–4513.
COMMUNICATIONS: CTAF 122.9
 DENVER CENTER APP/DEP CON 126.5
RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.
KREMMLING (H) VORW/DME 113.8 RLG Chan 85 N40°00.16' W106°26.55' 356° 45.5 NM to fld. 9370/14E.

WALSENBURG

SPANISH PEAKS AIRFIELD (4V1) 5 N UTC–7(–6DT) N37°41.80' W104°47.11' DENVER
 6047 FUEL 100LL NOTAM FILE DEN L–10F, 15A
 RWY 08–26: H4896X60 (ASPH) S–5 LIRL (NSTD)
 RWY 08: Thld displcd 419'. Road. RWY 26: Fence.
 RWY 03–21: 2500X40 (TURF–DIRT)
 RWY 03: Road.
AIRPORT REMARKS: Attended irregularly. 24 hr credit card fuel avbl. Arpt CLOSED to acct over 12,500 pounds. Rwy 03–21 CLOSED except PPR ctc arpt manager prior to use 719–742–5323 or 719–859–5323. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Rwy 03 first 1000' has ruts and bumps. Rwy 03 rough and not well maintained. Rwy 08–26 NSTD MIRL 4509' lighted. ACTIVATE NSTD LIRL Rwy 08–26—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
WEATHER DATA SOURCES: AWOS–3 123.6 (719) 738–1053.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE PUB.
PUEBLO (H) VORTACW 116.7 PUB Chan 114 N38°17.66' W104°25.77' 192° 39.6 NM to fld. 4760/13E.

WESTCLIFFE

SILVER WEST (C08) 9 SE UTC–7(–6DT) N38°00.67' W105°22.37' DENVER
 8290 FUEL 100LL NOTAM FILE DEN H–3E, 5A, L–10F
 RWY 13–31: H7000X55 (ASPH)
 RWY 31: Ground.
AIRPORT REMARKS: Unattended. 24 hr self serve fuel. Be alert, intensive USAF student training invof Colorado Springs and Pueblo Colorado. Occasional deer and elk on Rwy 13–31. Rwy 13–31 has varying terrain heights from –5 to +12' along full length of rwy inside of primary surface. Rwy 13–31 has +15' Highway 120' W of and parallel to centerline full length, +4' fence 100' W of and parallel to centerline full length. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
COMMUNICATIONS: CTAF 122.9
RADIO AIDS TO NAVIGATION: NOTAM FILE ALS.
ALAMOSA (H) VORTACW 113.9 ALS Chan 86 N37°20.95' W105°48.93' 015° 44.9 NM to fld. 7535/13E.

WESTWINDS (See DELTA)

WILKERSON PASS 4BM N39°02.93' W105°30.73'/11279 DENVER
 AWOS–3 134.375 541–386–2386. L–10F

WOLF CREEK PASS CPW N37°27.87' W106°48.27'/11760. DENVER
 AWOS–3 121.125 970–264–2180. L–9E

WRAY MUNI (2V5) 2 NW UTC-7(-6DT) N40°06.02' W102°14.46' CHEYENNE
 3667 B S4 FUEL 100LL NOTAM FILE DEN H-5A, L-10G
 RWY 17-35: H5400X75 (ASPH) S-16 MIRL 0.7% up N IAP
 RWY 17: REIL. PAPI(P2L)—GA 3.0° TCH 40'. RWY 35: REIL. PAPI(P2L)—GA 3.0° TCH 40'.
AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z†, Sat 1500-1900Z†. 24 hr self serve fuel avbl. Be alert, intensive
 USAF student training invof Colorado Springs and Pueblo Colorado. Putting greens and 4' fences 50' right and
 75' left of rwy centerline. Twy marked with blue reflectors. ACTIVATE MIRL Rwy 17-35 CTAF. See Special
 Notices—USAF 306 FTG Flight Training Areas, Vicinity of Colorado Springs and Pueblo Colorado.
WEATHER DATA SOURCES: AWOS-3 118.250 (970) 332-5930.
COMMUNICATIONS: CTAF/UNICOM 122.8
 (R) DENVER CENTER APP/DEP CON 132.7
RADIO AIDS TO NAVIGATION: NOTAM FILE GLD.
GOODLAND (H) VORTACW 115.1 GLD Chan 98 N39°23.27' W101°41.54' 317° 49.7 NM to fld. 3650/12E.
 HIWAS

YAMPA VALLEY (See HAYDEN)

YUMA MUNI (2V6) 1 SE UTC-7(-6DT) N40°06.25' W102°42.78' CHEYENNE
 4136 B S4 FUEL 100LL NOTAM FILE DEN L-10G
 RWY 16-34: H4200X75 (CONC) MIRL S-12.5
 RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 40'. RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Road. Rgt tfc.
 RWY 12-30: 2900X40 (ASPH-GRVL)
 RWY 12: Road. Rgt tfc. RWY 30: Road.
AIRPORT REMARKS: Attended Mon-Sat dalgt hours. Be alert, intensive USAF student training invof Colorado Springs
 and Pueblo Colorado. Rwy 12-30 soft when wet. Center 360' Rwy 12-30 asphalt. Remainder gravel. Rwy 12 has
 +20' bldg 90' from thld, 213' right. Rwy 30 has -2' ditch at thld, +4' fence 50' from thld. Twys marked with
 blue and yellow reflectors. MIRL Rwy 16-34 preset med ints dusk-dawn, ACTIVATE PAPI Rwy 16, PAPI Rwy 34
 and REIL Rwy 16, REIL Rwy 34—CTAF. See Special Notices—USAF 306 FTG Flight Training Areas, Vicinity of
 Colorado Springs and Pueblo Colorado.
COMMUNICATIONS: CTAF/UNICOM 122.8
RADIO AIDS TO NAVIGATION: NOTAM FILE AKO.
AKRON (H) VORW/DME 114.4 AKO Chan 91 N40°09.33' W103°10.79' 085° 21.7 NM to fld. 4620/13E.

2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

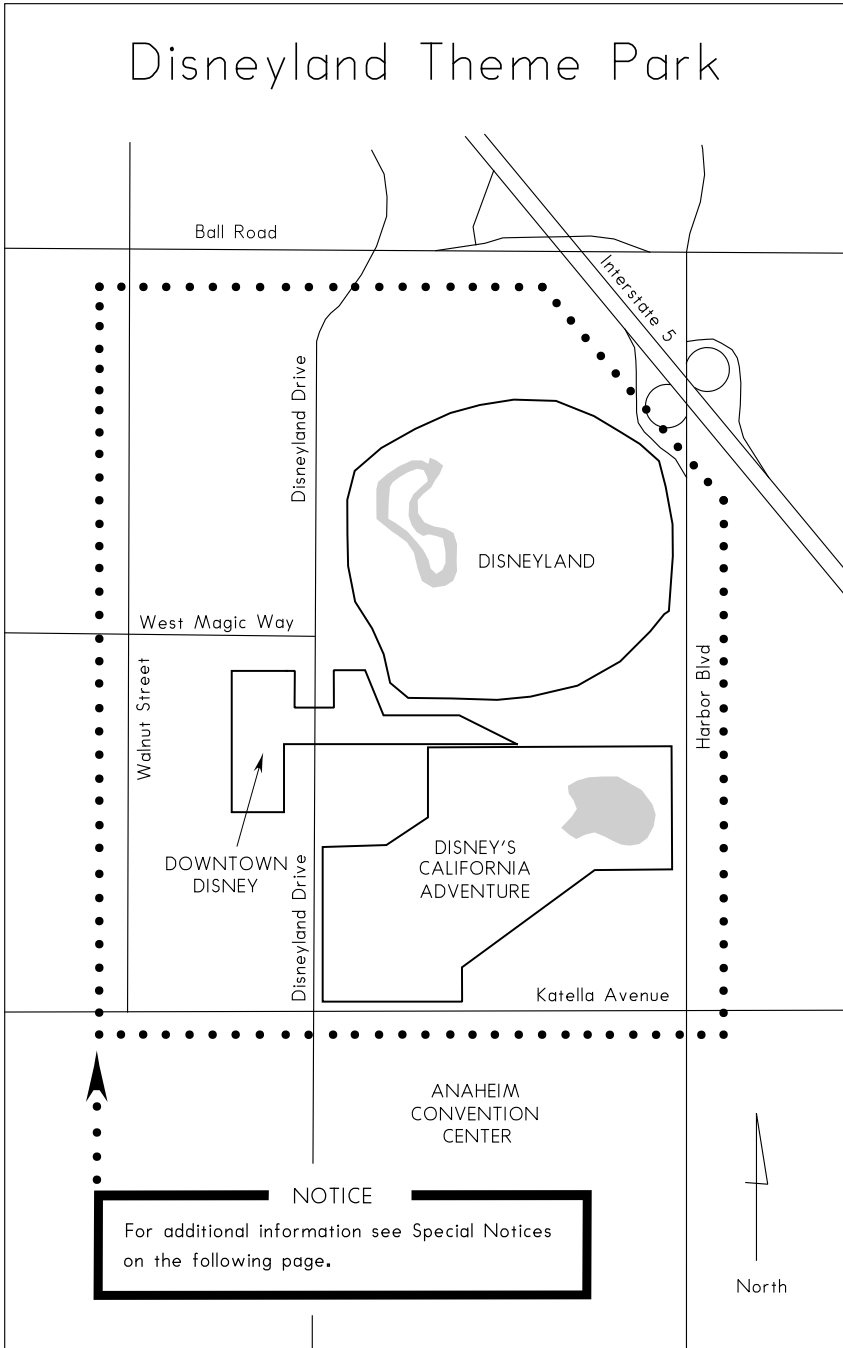
The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

DATE:	USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
April 10-11	Eglin AFB, FL			
11		NAS Key West, FL		
17		Charleston AFB, SC		
17-18	Lakeland, FL			
24-25	Barksdale AFB, LA	Vidalia, GA	Ft. Lauderdale, FL	
24-25			Galena, FL	
May 1	Dyess AFB, TX			
2	Altus AFB, OK			
1-2		St. Joseph, MO		
8-9	Shaw AFB, SC	Tuscaloosa, AL	Shaw AFB, SC	Niagara Falls, NY
8-9			Tuscaloosa, AL	
13			Union, NJ	
15-16	Columbus AFB, MS	Andrews AFB, MD	Columbus AFB, MS	
15-16			Andrews AFB, MD	
22	Grand Forks AFB, ND			
22-23		MCAS Cherry Point, NC		
26	Colorado Springs, CO	Annapolis, MD		
29-30	Janesville, WI	Jones Beach, NY	Jones Beach, NY	
29-30			Janesville, WI	
June 5-6	Ocean City, MD	Eau Claire, WI	Eau Claire, WI	
5-6			Florence, SC	
12-13		Milwaukee, WI	Milwaukee, WI	
19-20		Cape Girardeau, MO	Cape Girardeau, MO	
19-20	Tinker AFB, OK		Gaylord, MI	
26-27	North Kingstown, RI	St. Cloud, MN	Findlay, OK	
July 3			Madison, WI	
3			Dubuque, IA	
3-4		Traverse City, MI		
4			Ft Bragg, NC	
10		Pensacola Beach, FL		
10-11	Gary, IN		Gary, IN	
17-18	Duluth, MN	Dayton, OH		
24-25	Fairchild AFB, WA	Idaho Falls, ID		
28	Cheyenne, WY			
29			Goshen, IN	
29			Ft AP Hill, VA	
31	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
31			Johnstown, PA	

SPECIAL NOTICES

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
August	1	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
	1			Johnstown, PA	
	7-8	TBD	Seattle, WA		
	14-15		Chicago, IL	Chicago, IL	
	21-22	Westfield, MA		Westfield, MA	
	21-22			Kansas City, MO	
	25			Atlantic City, NJ	
	26			Ft Monroe, VA	
	28-29	Coney Island (Brooklyn), NY	Portsmouth, NH	Coney Island (Brooklyn), NY	
	28-29			Portsmouth, NH	
September	4-5	Martinsburg, WV		Cleveland, OH	
	4-5			Martinsburg, WV	
	4-6		Cleveland, OH		
	11-12	Corapolis (Pittsburgh), PA	Scott AFB, IL	Corapolis (Pittsburgh), PA	
	11-12			Scott AFB, IL	
	18-19	Whiteman AFB, MO	NAS Oceana, VA	Whiteman AFB, MO	Reno, NV
	25-26	McConnell AFB, KS	MCAS Kaneohe Bay, HI		
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, IX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24	Houston, TX	NAS Jacksonville, FL	Washington, DC	
	30-31	Cocoa Beach, FL	Ft Worth Alliance, TX	Ft Worth Alliance, TX	
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.



DISNEYLAND THEME PARK**NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disneyland Theme Park (334805N/1175517W or the Seal Beach (SLI) VORTAC 066 degree radial at 6.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.

LIGHTS–OUT OPERATIONS**Desert/Reveille MOAs, Nevada and Utah**

Lights–out night vision goggle flight training operations conducted within the Desert and Reveille North/South Military Operations Areas (MOAs) at all altitudes, Monday through Friday between sunset and sunrise when the MOAs are active. Traffic advisories are available from the Nellis ATC Facility (Nellis Control) on 126.65 or 124.95.

LIGHTS–OUT OPERATIONS**Lucin/Seveir/Gandy MOAs, Utah**

Lights–out night vision goggle flight training operations conducted within the Lucin, Seveir, and Gandy Military Operations Areas (MOAs) at all altitudes, Monday through Friday between sunset and sunrise when the MOAs are active. Traffic advisories are available from the Clover ATC Facility (Clover Control) on 118.45 or 134.1.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS**SAN FRANCISCO INTERNATIONAL AIRPORT (SFO)****SAN FRANCISCO, CALIFORNIA**

San Francisco International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 1R at Taxiway Mike

Runway 10L at Taxiways Romeo or Uniform

Runway 10R at Taxiway Uniform

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS**LAS VEGAS–MCCARRAN INTERNATIONAL AIRPORT (LAS)****LAS VEGAS, NEVADA**

Las Vegas–McCarran International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 07L at Taxiways "A8" or Delta

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

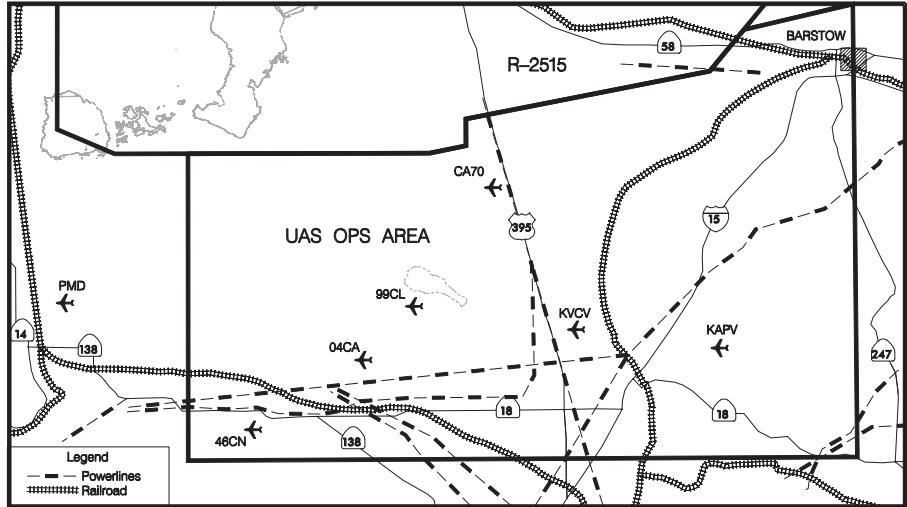
LOS ANGELES, CA, LOS ANGELES INTERNATIONAL AIRPORT (LAX)**NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 24L/R and Runways 25L/R are authorized, with course divergence beginning within 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS IN SOUTHERN CALIFORNIA

UAS operations are conducted sunrise to sunset within three (3) nautical miles of El Mirage Field Adelanto (N34°37'30", W117°36'20") and Grey Butte (N34°33'55", W117°40'50") at or below 6,000 feet MSL. From sunset to sunrise operations may be conducted within four (4) nautical miles at and below 4,000 feet AGL. Contact Joshua control on 124.55 or 363.0 for activity information and advisory service.

UAS operations may be conducted in accordance with Visual Flight Rules (VFR) accompanied by a chase aircraft below 14,000 feet MSL in an area bounded by N34°58'00" W117°00'00", N34°27'00" W117°00'00", N34°27'00" W117°55'00", N34°48'00" W117°55'00", N34°48'00" W117°35'03", N34°48'30" W117°32'03", N34°50'20" W117°32'03", N34°53'30" W117°11'53", N34°56'20" W117°09'03" thence to point of beginning.



UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS IN NORTHERN NEVADA

UAS operations are continuously conducted within the Fallon Approach Control Airspace and the Fallon Range Training Complex at all altitudes when the Special Use Airspace areas are active. Contact Desert Control on 126.2 MHz. for activity status.

UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS IN NEVADA AND UTAH

There is continuously unmanned aircraft systems flight activity conducted within the desert and reveille military operations areas (MOAs) at all altitudes when the MOAs are active. Traffic advisories are available from the Nellis Air Traffic Control facility (Nellis Control) on 126.65.

MODEL AIRCRAFT ACTIVITY—EL TORO, CALIFORNIA

Model aircraft activity conducted 500' AGL and below, 0.5 NM radius of apch end of Rwy 25L. CLOSED MCAS El Toro, daily 1500–0400Z. For NOTAM information contact Prescott AFSS on 800–992–7433.

DENVER TERMINAL RADAR APPROACH CONTROL Denver, Colorado

The Denver Terminal Radar Approach Control has been issued a waiver which enables controllers to assign speed restrictions without obtaining pilot concurrences; e.g., speeds of less than 250 knots below FL280 and speeds of less than 210 knots when the aircraft is greater than 20 flying miles from the threshold of the airport of intended landing.

EXTENSIVE HELICOPTER FLIGHT TRAINING IN THE VICINITY OF ROCKY MOUNTAIN METROPOLITAN AIRPORT (BJC), BROOMFIELD, COLORADO

Frequent usage of Runway 11R–29L, Taxiway D, and the north end of Runway 20 by helicopter flight schools. Pilots are cautioned to listen carefully to ATC for turnoff instructions when landing on Runway 11R–29L. Helicopters flight schools use three primary local procedures: Charlie Two, Ball, and Erie. CHARLIE TWO; Expect departures to the south thence turning to the northwest. Expect arrivals from the northwest. BALL; Expect departures to the south thence turning east. Expect arrivals from the east. ERIE; Expect departures northbound. Expect arrivals from the north.

**INTENSE HELICOPTER OPERATIONS
LOS ANGELES BASIN AREA, CALIFORNIA**

CAUTION: Intense helicopter operation below 2000'AGL. All pilots transitioning the area at or below 2000'AGL are encouraged to make regular position reports on frequency 123.025.

**LASER LIGHT DEMONSTRATIONS
Anaheim, California**

A laser light demonstration will be conducted nightly between sundown and midnight at Disneyland, Anaheim, California (SLI VORTAC 060 radial at 7NM LAT 33°48'40"N/LON 117°55'00"W). The beam may be injurious to eyes if viewed within 300 feet vertically and 600 feet laterally of the light sources. Cockpit illumination-flash blindness may occur beyond these distances.

**Knotts Berry Farm
Buena Park, California**

A permanent laser light demonstration is being conducted at Knotts Berry Farm, 33°49'45"N/117°59'35"W, Seal Beach Vortac SLI 022/005, 0445 to 0600 UTC DLY. Laser light beam may be injurious to pilots/passengers eyes within 800 feet vertically and 1400 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Long Beach, California

A laser light demonstration will be conducted nightly between sundown and 11 PM at the Pine Avenue Theater Complex, Pine Avenue, Long Beach, California (SLI VORTAC 250 radial at 8NM LAT 33°46'12"N/LON 118°11'30"W). The beam may be injurious to eyes if viewed within 100 feet vertically and 1,900 feet laterally of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

Palomar Observatory

A laser light operation is conducted intermittently between sunset and sunrise at the Palomar Observatory N33-21-22/W 116-51-53, Julian VOR (JLI) 298 degree radial at 19 nautical miles. The laser beam may be injurious to eyes if viewed on axis. Cockpit illumination and flash blindness may also occur if the beam enters the cockpit. Los Angeles ARTCC, (661) 265-8205 is the FAA coordination facility.

San Francisco, California

A Laser Light Demonstration will be conducted nightly between 8:30 pm and 2:00 am at Pier 39, San Francisco, California (SAU VORTAC 100 radial at 12 NM LAT 37°48'40" N; LON 122°24'35" W). The beam may be injurious to Pilots/Passengers' eyes if viewed within 800 feet vertically and 800 feet laterally of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

CHRISTMAN AIRPORT, FORT COLLINS, COLORADO

A laser light operation for testing and alignment is being conducted at Christman Airport, 40°35'24"N/105°08'26"W, GLL VORTAC 270/28NM. This testing is ongoing, intermittently, 24 hours per day 7 days a week. Laser light beams may be injurious to pilot's/passenger's eyes within 4479 feet of the light source, to 8958 feet AGL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. Denver TRACON, 303-342-1590 is the FAA coordination facility.

CONTROLLED FIRING AREA (CFA) EAST OF YUMA, AZ

The military has established a controlled firing area (CFA) east of Yuma, AZ. The CFA is bordered by the following fixes: BZA058015 - BZA068035 - BZA072034 - BZA075030 - BZA075015 - BZA058015. Operations will be conducted at or below 3000'AGL. The hours of operation are Monday through Saturday from sunrise to sunset.

SAN DIEGO, CALIFORNIA SOUTHBOUND INTERNATIONAL BORDER CROSSING

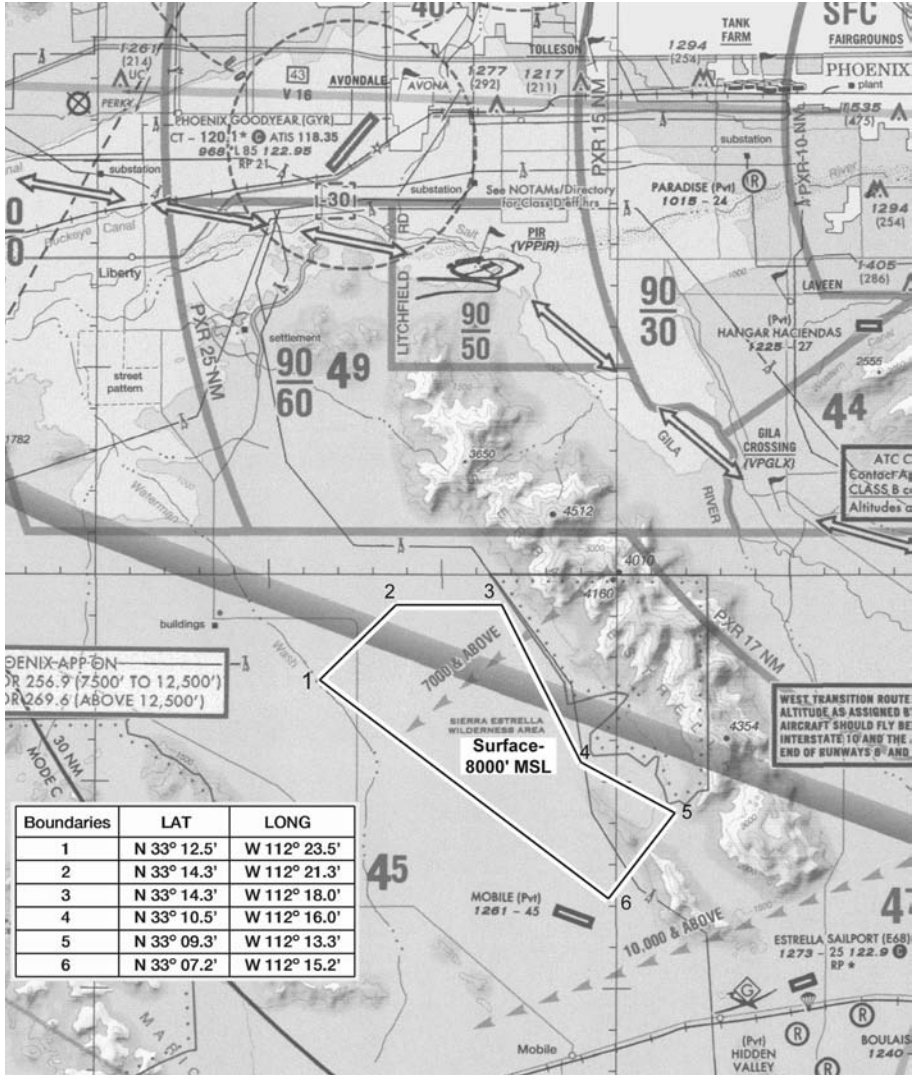
Pilots crossing the International border southbound into Mexican airspace, in the vicinity of San Diego, are encouraged to cross Tijuana International Airport at midfield to avoid arriving and departing aircraft. Pilots requesting transition through the Brown Field CLASS D airspace should contact Brown Tower on frequency 126.5. All others should contact Tijuana Approach Control on frequency 119.5 prior to crossing the border. Southbound aircraft are requested to squawk 1260 prior to crossing the border unless otherwise advised by ATC.

**EXTENSIVE PARACHUTE DROP ACTIVITIES
SAN DIEGO, CALIFORNIA**

Use caution when transiting the corridor south of San Diego Class B airspace and north of the international border between the coast and east to the Tecate area. A wide variety of civilian and military aircraft types (Cessna 182-C-130) use this corridor to make high rates of ascent and descent from the surface to 15000 MSL. Note the San Diego, Trident, and Otay Reservoir jumping areas located in this corridor and to the northeast of Brown Field Municipal Airport. Use VHF 121.95 to monitor parachute drop activities.

**AEROBATIC OPERATIONS SOUTHEAST OF PHOENIX
GOODYEAR AIRPORT, GOODYEAR, ARIZONA**

The aerobatic training area center point is located on the Stanfield VOR 300° radial at 26.5 DME. The area exists approximately 2 nautical miles on each side of the TFD VOR 300° radial from 22 to 31 DME, surface to 8000' MSL. Pilots should use caution in this area. Frequency 128.92 is provided for air-to-air communications with pilots using or transiting the area. For information regarding hours of operation, contact 623-932-1650.



**AEROBATIC PRACTICE AREA
MOUNTAIN VALLEY AIRPORT, TEHACHAPI, CALIFORNIA**

Practice and competitive aerobatic maneuvers regularly scheduled adjacent to south side of Mountain Valley Airport (3 NM long X ½ NM wide), surface to 5000' AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact VAN NUYS FSDO on 1-818-904-6291.

**Restricted Area R-2305
Gila Bend, Arizona
Transit Information**

A transit route extends from Gila Bend to the Eric Marcus Airport over Arizona Highway 85 at 500 feet above ground level (AGL). VFR rules govern civilian flight through the Goldwater Air Force Range. Airevac flights will be given priority over all other air traffic other than inflight emergencies. The Airevac call sign will be used only when the aircraft is on an actual air evacuation mission. Department of Public Safety (DPS) "Ranger" call signs must indicate they are on an Airevac mission to receive priority. Military aircraft will have priority over all remaining aircraft. Aircraft requesting to transition this airspace may encounter delays.

General aviation aircraft must coordinate their route of flight, departure, and return times with Range Operations prior to departure. Phone (623) 856-8818/8819. Once airborne, aircraft from the north contact Gila Bend AFAT Tower (primary) on 257.65/127.75 (UHF/VHF) or Range Operations (secondary) on 264.125/122.775. Aircraft from the south contact Range Operations 264.125/122.775. Aircraft must hold outside restricted airspace until clearance is granted to transit the area. After receiving clearance into the Restricted Airspace, pilots shall monitor Range Operations frequency.

The preferred VFR procedure will be to fly over Highway 85 at 500 feet AGL, monitoring Range Ops on VHF 122.775. At night aircraft will fly over Highway 85 at or below 1000 feet AGL. Military aircraft on manned ranges will be instructed to remain clear of Highway 85 or to transit the highway 500 feet above altitude of transiting aircraft.

Caution: Due to repeater transmissions and mountainous terrain, flights north of the Saucedo Mountains (Black Gap) will normally only be able to contact Gila Bend Tower. Flights south of the mountains should contact Range Operations. Military aircraft on the Range may be operating lights out.

The normal hours of the Goldwater Air Force Range are from 0630-2400 local Monday through Saturday. When the range is not active, Gila Bend AFAT Tower and Range Operations are closed. If unable to contact the Tower or Range Operations, contact Albuquerque ARTCC on 126.45 or 125.25 for clearance.

LOW ALTITUDE TACTICAL NAVIGATION AREA (LATN) EAST OF TUCSON, AZ

The military has established a Low Altitude Tactical Navigation Area (LATN) east of Tucson bordered by the following fixes: TUS037017-TUS025022-TUS038037-CIE323030-CIE294015-CIE255022-TUS090028-TUS055029-TUS037017. The LATN is not a restricted area and will continue to be available for use by civilian aircraft in accordance with FAA rules and regulations. The primary operations will be conducted by HH-3/MH-60 helicopters from 100 ft AGL to 600 ft AGL. The hours of operations will be daily from 1500-0100Z

**ORANGE COUNTY GREAT PARK TETHERED BALLOON
IRVINE, CALIFORNIA**

(Until Further Notice)

Tethered balloon 780' MSL daily (1700-0600Z), Located on the El Toro VOR/DME 234 radial at 1 mile (ELB234001).

**SEA WORLD TETHERED BALLOON
SAN DIEGO, CALIFORNIA**

(Until Further Notice)

Tethered balloon 367' MSL daily (1700-0400), Located on the Mission Bay VORTAC 180 radial at 1 mile (MZB180001).

**UNAUTHORIZED TRANSMISSION
ARIZONA, CALIFORNIA, AND NEVADA AREA
(Until Further Notice)**

Attention all aircraft: Be alert to the possibility of UNAUTHORIZED AIR TRAFFIC CLEARANCES issued on ATC frequencies in the Arizona, California, and Nevada areas. If you received a transmission that is questionable verify with AIR TRAFFIC CONTROL.

**SAN FRANCISCO INTERNATIONAL AIRPORT EXPANDED CHARTED
VISUAL FLIGHT PROCEDURES
(Until Further Notice)**

*****GENERAL*****

San Francisco International Airport (SFO) is subject to stratus moving slowly from West to East, creating a reportable weather ceiling over the airport, while the final approach area for Runways 28R and 28L have no significant ceiling or visibility conditions. An expanded charted visual flight procedure (E/CVFP) has been developed to maximize the level of airport efficiency during the unusual weather conditions described above.

*****MINIMUMS*****

The E/CVFP incorporates the following weather minimums:

SFO ceiling 2100 feet and visibility 5 miles; or,
SFO ceiling 1000 feet and visibility 3 miles, and,
visibility 5 miles in the Eastern quadrant (030-120), and,

ceiling 2400 and visibility 5 miles at the automated weather observing system (AWOS) located at BRIJJ

L0M. In the event the AWOS is inoperative, weather at San Carlos (SQL) is required to be at least ceiling 2400 feet and visibility 5 miles.

Although the listed weather minima are in effect aircraft should not expect simultaneous E/CVFP approaches unless BRIJJ AWOS ceiling is at least 3500 feet and visibility is at least 5 miles.

*****SPACING AND SEQUENCING*****

Controllers will clear aircraft for the E/CVFP in accordance with the provisions of Order 7110.65, Air Traffic Control. They will not utilize phrases requesting or requiring aircraft to "fly right alongside", "wingtip to wingtip", or "directly abeam" other aircraft. Additionally, controllers will not assign instructions or require aircraft to pass and/or overtake other aircraft on the adjacent final approach course. Preferably, aircraft will be vectored to achieve a slightly staggered position of approximately $\frac{1}{8}$ to $\frac{1}{4}$ mile behind the aircraft on the adjacent final approach course. Heavy aircraft and B757's will not be authorized to overtake another aircraft on the adjacent final approach course. Wake turbulence cautionary advisories will be issued, as appropriate.

*****GO-AROUND PROCEDURE*****

The Tipp Toe and Quiet Bridge approaches are visual approaches, and as such have no missed approach segment. If a go-around is necessary, aircraft will be issued an appropriate advisory/clearance/instruction by the tower or tracon. To ensure standard separation from other traffic, these instructions will include the assignment of a specific heading and altitude. Normally, the following procedures will apply:

Tipp Toe Visual Runway 28L

In the event of a go-around turn left heading 265, climb and maintain 3000; or as directed by Air Traffic Control.

Quiet Bridge Visual Runway 28R

In the event of a go-around turn right heading 310, climb and maintain 3000; or as directed by Air Traffic Control.

AEROBATIC OPERATIONS IN ARIZONA

The following practice and competitive aerobatic areas are in use without notice SR-SS daily.

5 NMR DMA	17,500 and below
2 NMR INW195055/PAN	9,600 and below
1 NM N-S and 7 NM E-W of the PXR017022	6,500 and below
PXR019020	7,500 and below
PXR128013	5,500 and below
1 Square mile of the PXR194023	5,000 and below
1 NMR PXR129018	5,000 and below
1 NMR PXR316026.2	6,600 and below
3 NMR PXR 323024	6,000 and below
2 NM N-S and 4 NM E-W PXR325027	8,000 and below
1 NM Square TFD 3000 18/E60	6,300 and below
1 NMR TFD065025/PØ8	5,500 and below
1 NMR TFD143021	3,000 and below
4 NMR TFD010020	4,800 and below
1NMR TFD107036	5,000 and below
PØ8-COOLIDGE	10,000 and below
12 NW of DVT	6,500 and below
5 NMR DRK215013	11,500 and below

Pilots should use caution in these areas. For further information contact Prescott AFSS on 1-800-992-7433.

AEROBATIC OPERATIONS NORTHWEST OF TUCSON, AZ.

Practice and competitive aerobatic maneuvers are regularly scheduled on the Tucson VORTAC 295 radial at 25 miles and Tucson VORTAC 308 radial at 22 miles, sunrise to sunset, up to 5,000 MSL.

AEROBATIC OPERATIONS NORTHEAST OF REDLANDS, CA

Practice and competitive aerobatic maneuvers are regularly scheduled in the vicinity of the PDZ VORTAC 045 radial at 23 nautical miles from 1,500' AGL up to and including 7,500' MSL. The practice area is for waiver holders only. Pilots should use caution in this area. Frequency 123.3 is provided for air-to-air communications with other pilots using or transiting the area.

AEROBATIC OPERATIONS NORTHEAST OF SANTA PAULA, CA

Practice and competitive aerobatic maneuvers are regularly scheduled in the vicinity of FIM VORTAC, SR-SS, 1,500' AGL to 5,500' MSL. The Aerobatic Area is defined by FIM 220/004, to FIM 260/008, to FIM 285/009, to FIM 360/005, to FIM 055/014, to FIM 070/013. The practice area is for waiver holders only. Pilots should use caution in this area. Frequency 122.775 is provided to air-to-air communications with other pilots using or transiting the area.

AEROBATIC OPERATIONS IN COLORADO

Practice and competitive aerobatic maneuvers are regularly conducted during daylight hours at the following locations:

- a. 2 NM radius GLL 180/009, 10000 MSL and below.
 - b. 1 NM radius Sterling Muni (STK), 4000 AGL and below.
 - c. 1 kilometer square, 800 to 3000 AGL 3 statute miles east of RWY 17-35, Kelly Airpark (CO15).
 - d. 1 statute mile square, surface to 4000 AGL. Center of the area is located 2850 feet east of RWY 18-36. Western boundary is 1000 feet from RWY 18-36 and northern boundary is 100 feet from RWY 08-26, Lamar Airport (LAA). The (LAA) ASOS will broadcast aerobatic area information when this area is active. For further information, contact Flight Services 1-800-WX-BRIEF.
 - e. 1 kilometer square, 5000 AGL .5 statute mile east of Ft. Morgan Muni (FMM).
 - f. 1 NM radius GLL 315/006, 10000 MSL and below. Mon-Sat 1500-2359, Sun 1600-2359.
 - g. 1 NM radius 10000 MSL and below. 6.2 statute miles northwest of Vance Brand (LMO) Mon-Sat 1500-2359, Sun 1600-2359.
-

AEROBATIC PRACTICE AREA JEAN AIRPORT, JEAN, NEVADA

Aerobatic flight activity will be conducted within a 3300' square box, located 2 miles west of Jean Airport (Specific area of operation is ½ mile radius from a point described by the LAS 190/20). Flights will occur from SFC to 6500 MSL, between 1 hour after sunrise to 1 hour before sunset daily. Pilots should use caution when operating within this area. To obtain a copy of the Certificate of Waiver outlining appropriate procedures for utilization of the practice area, ctc Henderson Executive Airport at (702) 261-4800.

AEROBATIC PRACTICE AREA VAUGHN MUNICIPAL AIRPORT (N17), VAUGHN, NEW MEXICO

Aerobatic practice will be conducted within a 3 NM radius of the Vaughn Municipal Airport (N17), SFC to 11,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992)-7433).

EXTENSIVE FLIGHT TRAINING IN VICINITY OF ERNEST A. LOVE FIELD, PRESCOTT, ARIZONA

Extensive flight training activity in areas 5 to 38 miles from the Prescott Airport 14,000 MSL and below. These areas are in use from sunrise to sunset daily. Participating traffic reports on 123.5.

EXTENSIVE FLIGHT TRAINING IN VICINITY OF ANGWIN-PARRETT FIELD (203), ANGWIN, CALIFORNIA

Extensive flight training activity within a 10 NM radius of STS056024 (MAUCH INT), 4,500 MSL and below. This area is in use from 1400-0300 UTC daily. Participating traffic reports on 123.0.

EXTENSIVE FLIGHT TRAINING IN VICINITY OF PROVO MUNICIPAL AIRPORT

Extensive flight training activity in areas 5 to 30 miles S & W of Provo Municipal Airport from the PVU260R-PVU150R, 9,000 MSL and below. These areas are in use from 1100Z to 0400Z Monday thru Saturday; participating traffic contact Eagle Base on 123.5.

UNMANNED AIRCRAFT SYSTEMS, SOUTHEASTERN, AZ

Unmanned aircraft system activity along the international border in southeastern Arizona. Pilots flying near the international border between Nogales, Arizona and the New Mexico border should be alert for unmanned aircraft systems operating from 14,000' MSL to 16,000' MSL inclusive, 0000-1500 UTC daily.

ROCKET FIRING SOUTHEAST OF RENO, NEVADA

Rocket firing occurs approximately on the Mustang VORTAC 107 radial at 7 miles, normally seven days a week, sunrise to sunset, up to but not including 1,000 ft above ground level.

GLIDER OPERATIONS NORTHWEST OF TUCSON, ARIZONA

There is regularly scheduled glider/soaring activity conducted from El Tiro Airport, which is located approximately on the Tucson VORTAC (116.0 MHz) 297° radial at 31 nautical miles: this is south of Pinal (Marana) Airpark and bordered by V16, V66, and V105. Activity at El Tiro is normally scheduled for Saturday, Sunday, and Wednesday, with much of the soaring conducted near the intersection of V66 and V105 at altitudes up to, but not including flight level 180.

CAUTION—TETHERED AEROSTAT RADAR SYSTEM (TARS)

A TARS (a large helium-filled balloon) operates continuously up to 15,000 feet, except during inclement weather or when the system is down for maintenance, in R-2312 near Fort Huachuca, Arizona. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Phoenix Sectional Chart for location.

YOSEMITE NATIONAL PARK

Public law prohibits flight of VFR helicopters or fixed-wing acft below 2000 feet above the surface of Yosemite National Park. "Surface" refers to the highest terrain within the park within 2000 feet laterally of the route of flight or, within the Yosemite Valley, the uppermost rim of the valley.

CALIFORNIA CONDORS Central California Coast Ranges

California Condors are currently being reintroduced to the Central California Coast by the Ventana Wilderness Society. There are two release sites; one below Anderson Peak near Big Sur (BSR VOR radial 150, 2 NM), the other in the Pinnacles National Monument (SNS VOR radial 099, 24 NM). California Condors can be identified in the air by their distinctive size and flight patterns. Like the Turkey Vulture, the California Condor is a large black bird with a naked head which uses topography and associated wind patterns for soaring flight. However, the California Condor is nearly twice as large as the Turkey Vulture, with a wingspan approaching ten feet. Condors normally soar at altitudes between 500 and 6,000 feet AGL. They have been known to fly up to 190 miles in a single day and could therefore be found over a very large area. Please be alert for the presence of these highly endangered birds throughout the Coastal Range from Mt Hamilton near San Jose, south to the Simi Valley, near Fillmore VOR (FIM), as well as the foothills along the west side of the San Joaquin Valley. For further information contact the Ventana Wilderness Society at 831-455-9514.

CALIFORNIA CONDORS Pinnacles National Monument

California Condors are the largest land birds in North America and are currently being reintroduced at Pinnacles National Monument in central California. Weighing 15-25 pounds and with a wingspan of 9.5 feet, this endangered species presents a formidable in-flight hazard. Condors are capable of soaring at an altitude of 15,000 feet, although they are more often found between altitudes of 2,000-9,000 feet. Using GPS tracking devices on four condors, a high-use condor flight area was identified over Pinnacles National Monument. The Monument is requesting a clearance of 3,000 feet AGL over an approximately 11.5 square mile area, as indicated, where these and other condors are consistently soaring. Monument personnel hope that such a restriction will be a manageable compromise for the continued conservation of this endangered species and the safety of all pilots. For further information, please contact Pinnacles National Monument at (831) 389-4485.

GRAND CANYON SPECIAL FLIGHT RULES AREA Effective on September 22, 1988

GRAND CANYON—Special Flight Rules Area, SFAR-50-2. Special regulations apply to all aircraft operations below 14,500 feet MSL. Except in an emergency or if otherwise authorized by the Las Vegas Flight Standards District Office for certain limited operations, remain at or above the following altitudes: a) in the Eastern sector from Lees Ferry to North Canyon at 5,000 feet MSL; b) in the Eastern sector from North Canyon to Boundary Ridge at 6,000 feet MSL; c) in the Central sector from Boundary Ridge to Supai Point at 10,000 feet MSL; d) in the Central sector from Supai Point to Diamond Creek at 9,000 feet MSL; e) in the Western sector from Diamond Creek to the Grand Wash Cliffs at 8,000 feet MSL. In flight corridors use the following altitudes: northbound at 11,500 or 13,500 feet MSL; southbound at 10,500 or 12,500 feet MSL. Remain clear of the indicated flight-free zones.

CAUTION: High volume of tour operations within the area. The procedures do not relieve pilots from see-and-avoid responsibility or compliance with FAR 91.119. Pilots should contact a local FSS for NOTAM information prior to flight within the Special Flight Rules Area. Utilize the Las Vegas (LAS) altimeter setting west of Mt. Dellenbaugh and the Grand Canyon (GCN) altimeter setting east of Mt. Dellenbaugh. Monitor the frequencies indicated for each sector (Western-121.95; Central-127.05; Eastern-120.05). Refer to the Grand Canyon sectional chart and NOTAMS for additional information.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport of Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

FAR-PART 139 CERTIFICATED AIRPORTS

Additional Certificated Airports
not contained in this Directory

NAME OF AIRPORT	NEVADA	IDENT	INDEX
TONOPAH, Tonopah Test Range		TNX	E

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS(Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA)	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

**NATURAL GAS FLARE
CARLSBAD/CAVERN CITY, NEW MEXICO**

A natural gas flare is located at approximately N32-27-50.5/W104-34-24.2 (CNM 300/021), SFC to 4200 feet MSL. Pilots should use caution when operating in this area. For further information, contact Albuquerque AFSS on 1-505-243-7831.

**SAN DIEGO INTERNATIONAL AIRPORT (SAN)
AIRCRAFT NOISE PROHIBITIONS/RESTRICTIONS**

No departures or engine run-ups above idle power 0730-1430Z±. FAR Part 36 Stage 2 departures prohibited 0600-1500Z±. Per current FAA standards all helicopters are Stage 2. Valid emergency operations or mercy flights exempt from noise abatement restrictions. Operator must provide written report to SAN noise abatement office. Noise monitoring in effect continuously. All operations of aircraft which exceed 104 Effective Perceived Noise Decibels at the takeoff reference point per FAA AC 36 Series documentation are prohibited. Noise sensitive areas all quadrants; recommend pilots use best noise abatement procedures. Pilots are requested to minimize use of reverse thrust consistent with safe operations of aircraft to minimize noise impact on surrounding community. For additional noise level restrictions and information call 619-400-2781.

SPECIAL PROCEDURES SAN FRANCISCO INTERNATIONAL AIRPORT NOISE ABATEMENT PROCEDURES

Fly Quiet Program:

The Fly Quiet Program was developed to help pilots understand the rules and regulations for noise abatement at SFO and to show the public how well airline's participate in the noise abatement programs. The purpose of the Program is to encourage individual airlines to operate as quietly as possible at SFO. The Program promotes a participatory approach in complying with noise abatement procedures by grading airlines' performance and presenting these scores to the public via a published report. The Program consists of five grading elements:

- 1) The overall noise quality of each airline's fleet operating at SFO.
- 2) A measure of how well each airline complies with the nighttime Preferential Runway Use Program.
- 3) Assessment of how well each airline adheres to the Gap departure profile.
- 4) Assessment of how well each airline adheres to the Shoreline departure profile.
- 5) Evaluation of single overflight noise level exceedances.

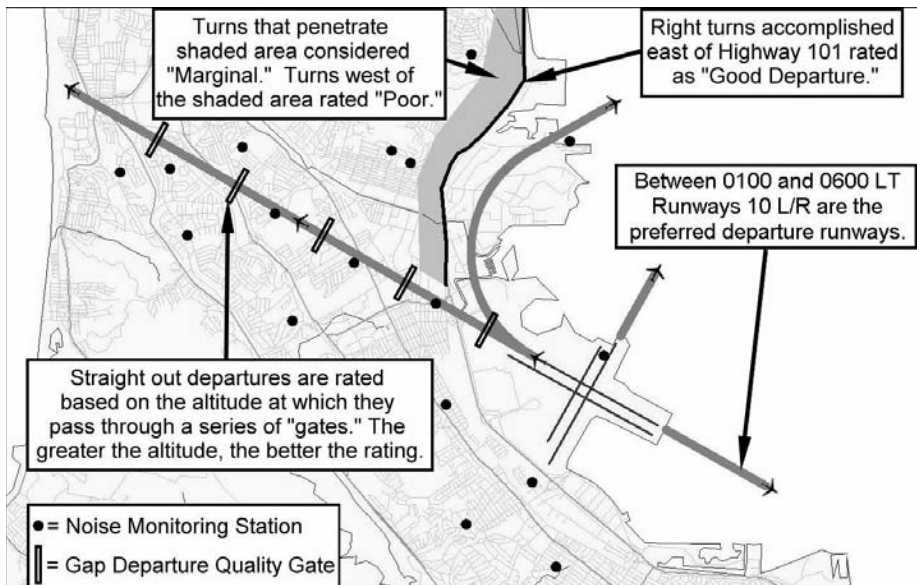
Flight Crews: By operating your aircraft as quietly as possible, you can directly influence your airline's Fly Quiet Program score. Here are some guidelines for maintaining a high score in the Fly Quiet Program:

(a) Preferential Runway Use Program—Between 0100 and 0600 (LT) the preferred departure runways for noise abatement are Runways 10 L/R. Pilots of heavy aircraft can significantly improve their airline's Fly Quiet Program scores by departing on Runways 10 L/R (weather permitting).

(b) Shoreline Departure Turn Quality—The radius of the initial turn after departure off Runways 28 L/R is a grading element of the Fly Quiet Program. Runway 28 L/R departures making excessively wide right turns overfly residential neighborhoods. By completing the initial right turn prior to crossing Highway 101, aircraft remain over industrial and commercial areas. **This applies to all Instrument Departure Procedures (IDPs) requiring right turns after departing Runways 28 L/R.**

(c) Gap Departure Climb Quality—Aircraft making straight out departures off Runways 28 L/R overfly heavily populated areas immediately west of the airport. Since "higher is quieter," the Airport monitors aircraft altitudes along the departure route. Scores are assigned at specific points, or gates, set approximately one mile apart, with higher scores given to those aircraft that reach higher altitudes at the gates. **It is preferred that aircraft making straight-out departures from Runways 28 L/R climb as rapidly as possible.**

(d) Noise Exceedance Rating—Maximum noise level limits are established for selected noise monitor stations surrounding SFO. Pilots can improve their airline's exceedance rating by utilizing the Preferential Runway Use Program and complying precisely with the Gap and Shoreline Departure Procedures.



**SPECIAL PROCEDURES
SAN FRANCISCO INTERNATIONAL AIRPORT
NOISE ABATEMENT PROCEDURES
PREFERENTIAL RUNWAYS**

The SFO Nighttime Preferential Runway Use Program is a voluntary Program that was developed in 1988. SFO operates on two sets of parallel runways for both arrivals and departures, based on this runway configuration, there are three preferred nighttime preferential runway procedures:

- 1) The primary goal of the Program is to use Runways 10 L/R for take-off because they offer departure routing over the bay which will reduce the noise impacts over the communities surrounding SFO.
- 2) When departures from Runways 10 L/R are not possible, the second preference would be to depart Runways 28 L/R on the Shoreline or Quiet Departure Procedures. Both of these Procedures incorporate an immediate right turn after departure to avoid residential communities northwest of SFO.
- 3) The third preference is to depart on Runways 01 L/R. While this procedure directs aircraft over the bay, jet blast from these departures affects communities south of SFO.

The least desirable departure procedure at SFO is a straight-out departure on Runways 28 L/R these departures overfly densely populated communities immediately west of SFO and are discouraged at all hours.

The Airport Director has established a Nighttime Noise Clearance Center operated during 2200-0700 by a duty officer whose responsibilities include monitoring compliance with SFO's Preferential Runway Use Program and responding to requests for exemptions to the noise regulations.

ENGINE RUN-UP RESTRICTIONS

Run-ups of mounted aircraft engines for maintenance or test purposes is prohibited between the hours of 2200-0700 daily except as provided below:

- 1) An idle check of a single engine is allowed under the following conditions:
 - (a) An idle check of a single engine not to exceed a 5-minute duration may be conducted in the lease hold area. If more than one engine is to be checked, each engine must be checked separately and the cumulative duration of the idle checks cannot exceed 5-minutes.
 - (b) An idle check of a single engine or multiple engines (checked separately) which will exceed a duration of five minutes will be accomplished in the designated run-up areas. For purposes of noise abatement monitoring, this will be considered a power run-up.

During the hours of 2200-0700, the Operations Supervisor shall be called and permission received prior to any engine idle check or engine idle run-up, including any idle run for more than a cumulative duration of 5-minutes.

During other hours, the Operations Supervisor shall be called and permission received prior to any engine run-up. Any request for an engine run-up during the hours 2200-0700, other than that described above, which is the result of unusual or emergency circumstances, may be approved by the Nighttime Noise Clearance Center.

When approved and accomplished, the Maintenance Supervisor of the airline concerned must provide to the Airport Director a monthly report detailing the following:

- (a) Date and time of the run-up
- (b) Type of aircraft
- (c) Aircraft identification number
- (d) Location of the run-up
- (e) Duration of the run-up
- (f) An explanation of the unusual or emergency circumstances making the run-up necessary

Reports will be submitted to the Airport Director, Attn: Airport Operations within three working days after the last day of each calendar month.

SPECIAL PROCEDURES SAN FRANCISCO INTERNATIONAL AIRPORT NOISE ABATEMENT PROCEDURES

APU OPERATING RESTRICTIONS

Operators are encouraged to use ground power and air sources whenever practicable. APUs may be used when aircraft are being towed.

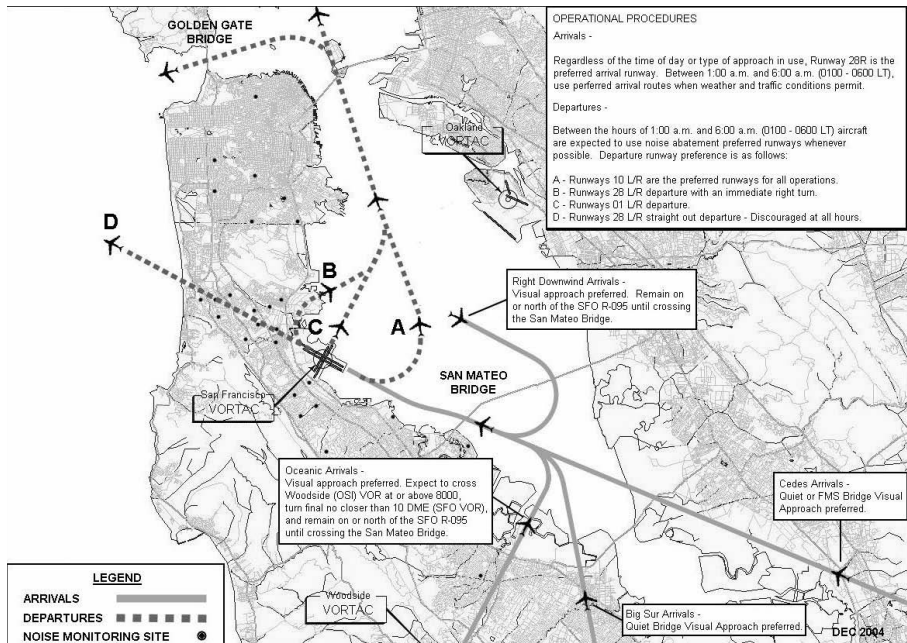
- 1) Domestic terminals—Use of APUs is prohibited between the hours of 2200–0600 except 30 minutes prior to departure, when passengers are aboard, or it is needed to test other aircraft equipment.
- 2) International Terminal—The following procedures apply:

(a) Aircraft scheduled to be at a gate in Boarding Areas A and G for more than 45 minutes between the hours of 0700–2200, are required to use 400Hz ground power and pre-conditioned air, where available. APUs are not authorized without prior permission is received from Airport Operations, during the use of ground power and pre-conditioned air until 30 minutes prior to push-back.

(b) All aircraft scheduled to be at an International Terminal gate between 2200–0700 hours are required to use 400Hz ground power and pre-conditioned air, where available, regardless of scheduled time at the gate. APUs are not authorized, unless prior permission is received from Airport Operations, during the use of ground power and pre-conditioned air until 30 minutes prior to push-back.

NOISE MONITORING SYSTEM

As of January 2005, the Airport installed a new Aircraft Noise Management System (ANMS) utilizing Lochard's Airport Noise and Operations Monitoring System (ANOMS(tm)) 8 product suite. This system consists of 29 fixed Environmental Monitoring Units (EMU) and four portable units. The previous passive radar system was replaced with Lochard's new hybrid, SkyTrak(tm), an integration of the FAA ARTS III E and live Mode S with passive radar that will drive the SFO community web site and deliver flight data throughout the airport.



CONTACT INFORMATION

For more information about the Fly Quiet Program or noise abatement procedures contact 650-821-5100.

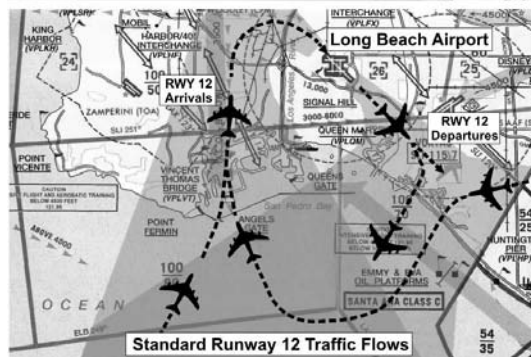
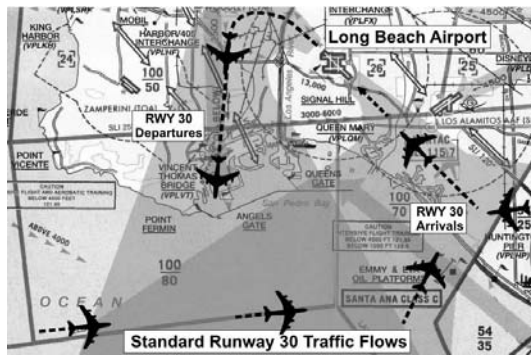
AIR CARRIER OPERATIONS VICINITY OF LONG BEACH (DAUGHERTY FIELD), CA.

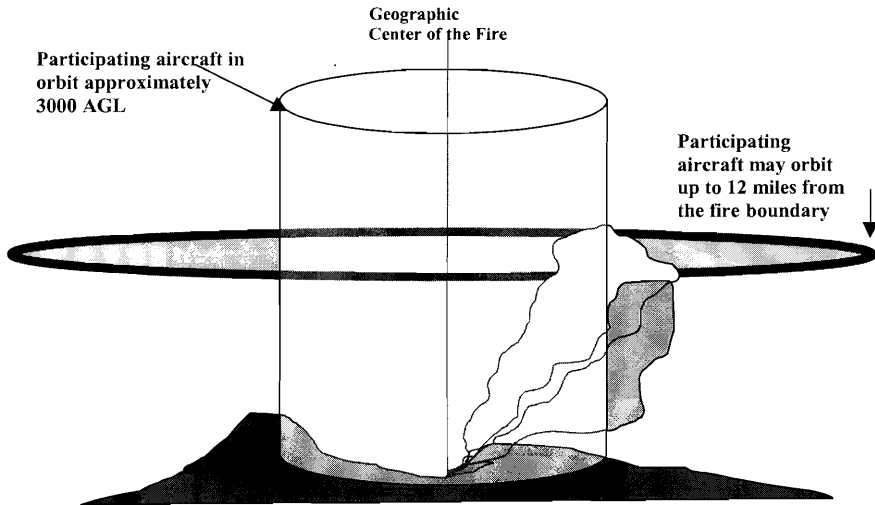
A wide mix of aircraft types including Air Carriers landing and departing Long Beach Daugherty Field, utilize the airspace south of Long Beach Airport (Daugherty Field) (LGB), Long Beach, California. The Class E airspace between Point Vicente, Catalina Island, and Huntington Beach accommodates pilot training from local flight schools, numerous IFR and VFR enroute aircraft, and helicopter and other aviation activities.

Participating flight training aircraft in Class E airspace south of Long Beach may:

- Utilize helicopter frequency 129.0 at or below 1,000 MSL.
- Utilize air-to-air frequency 121.95 above 1,000 MSL and below 4,500 MSL.
- Participants are encouraged to make position reports relative to Palos Verde Point, Point Vicente and Point Fermin, Angels Gate, Queens Gate, Emry & Eva Oil Platforms and the Queen Mary.

VFR flight following may be available from SOCAL TRACON as indicated on the LA Terminal Area Chart.

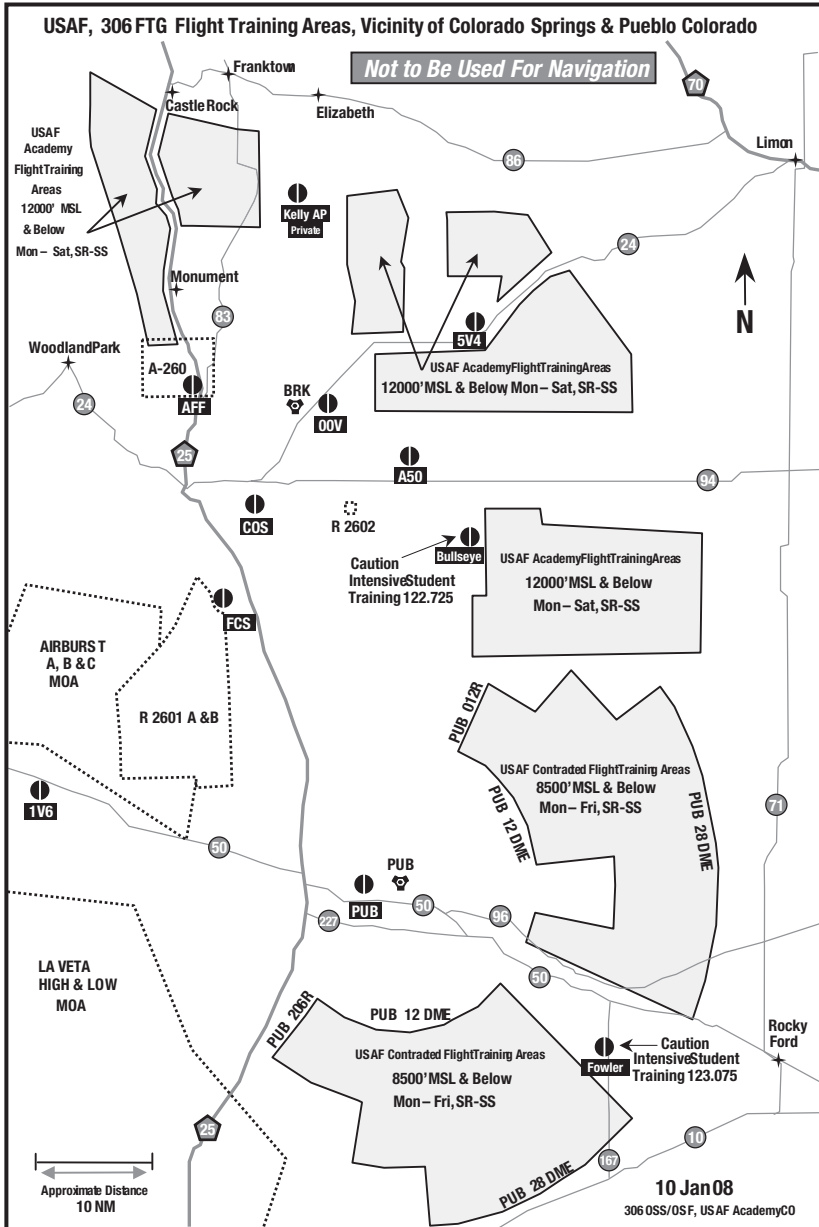


FIREFIGHTING TRAFFIC AREAS

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

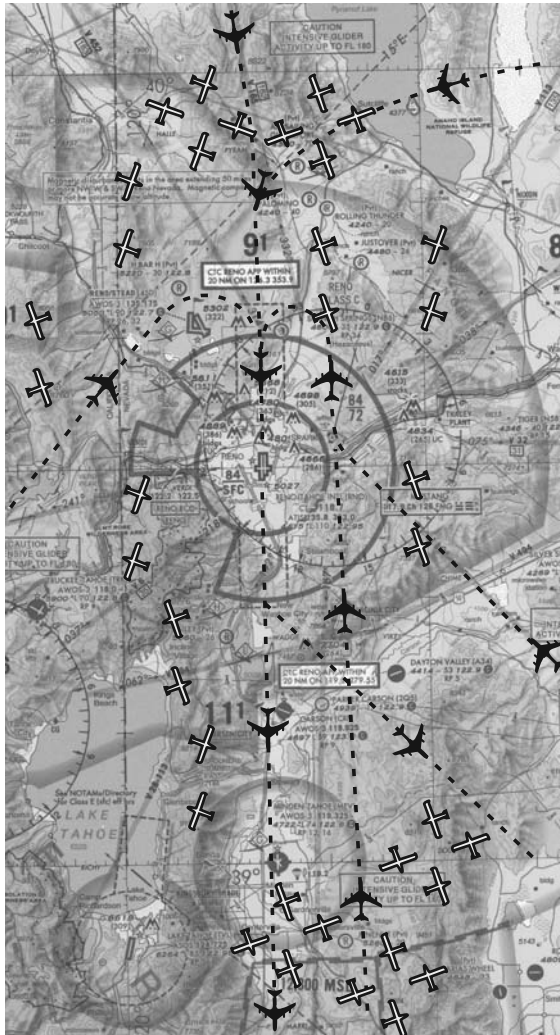
The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.



GLIDER/SOARING ACTIVITIES AROUND THE RENO-TAHOE INTERNATIONAL AIRPORT

There is intense glider activity up to FL180 near the Reno-Tahoe International Airport. Gliders conduct aerobatic maneuvers and other soaring activities in airspace on or near arrival routes, departure routes, final approach courses and holding fixes for the Reno-Tahoe International Airport. Gliders operations may originate from the Air Sailing, Minden-Tahoe and Truckee (California) Airports. The Air Sailing Airport is located near the Mustang (FMG) 337 radial at 20 nautical miles, between Anaho, Pyram and Takle intersections. The Minden-Tahoe Airport is located near the FMG 172 radial at 32 nautical miles, between J5 and J94. The Truckee California Airport is located near the FMG 225 radial at 26 nautical miles, north of the Squaw Valley VOR between J32 and V392. Federal Aviation Regulations do not require gliders operators to equip, activate or to broadcast the location of their aircraft via transponder or radio communications while operating outside of Class A or C Airspace. Atmospheric conditions attract large quantities of gliders to the area and activity near mountain ridges or "hot spots" may be intense. Altitudes up to 17,999 have been observed and pilots should exercise due diligence when exiting Class A and C airspace. Pilots are encouraged to refer to the SFO Sectional Aeronautical Chart and to the remarks in the Airport/Facility Directory, Southwest US for the Reno-Tahoe International Airport (RNO) regarding glider activity. For further information, call Reno ATCT/TRACON at (775) 784-5582.



The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

LUKE AIR FORCE BASE (AFB), AZ SPECIAL AIR TRAFFIC RULE F.A.R PART 93 EFFECTIVE MAY 6, 2010

Title 14, Code of Federal Regulations, part 93, subpart O, has prescribed special air traffic rules and communication requirements for aircraft operating under Visual Flight Rules (VFR) in the vicinity of Luke Air Force Base.

Pilots are required to establish two-way communication with Luke Approach Control on 118.15 north of Luke AFB or 125.45 south of Luke AFB prior to entering the special air traffic rule area. See Phoenix Terminal Area Chart.

Pilots of non-radio equipped aircraft must request permission to enter the special air traffic rule area at least 24 hours before the proposed operation by telephoning Luke Approach Control at 623-856-6448.

**FSS
TELEPHONE NUMBERS**

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

Telephone Information Briefing Service (TIBS) is the FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings 1-800-WX-BRIEF (1-800-992-7433)

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) 1-800-4TIBS-WX (1-877-484-2799)
 Clearance Delivery Only 1-888-766-8267
 Lifeguard Flights Only 1-877-LIF-GRD3 (1-877-543-4733)
 Flights within DC SFRA & FRZ * 1-866-225-7410

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA
OVC008CB
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB
18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Var</u> ia <u>ble</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., <u>S</u> tatute <u>M</u> iles & fractions; above 6 miles in TAF <u>P</u> lus <u>6SM</u> . (Or, 4-digit minimum visibility in meters and as required, lowest value with direction) Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>L</u> eft, <u>C</u> enter, or <u>R</u> ight as needed; <u>'</u> / <u>'</u> ; <u>M</u> inus or <u>P</u> lus in U.S., 4-digit value, <u>F</u> ee <u>T</u> in U.S., (usually meters elsewhere); 4-digit value <u>V</u> ariability 4-digit value (and tendency <u>D</u> own, <u>U</u> p or <u>N</u> o change)	3/4SM R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: <u>S</u> Ky <u>C</u> lear 0/8, <u>F</u> EW >0/8-2/8, <u>S</u> Ca <u>T</u> tered 3/8-4/8, <u>B</u> ro <u>K</u> e <u>N</u> 5/8-7/8, <u>O</u> Ver <u>C</u> ast 8/8; 3-digit height in hundreds of ft; <u>T</u> owering <u>C</u> umulus or <u>C</u> umulonim <u>B</u> us in METAR ; in TAF , only <u>C</u> B. <u>V</u> ertical <u>V</u> isibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, <u>C</u> lea <u>R</u> for "clear below 12,000 feet" Temperature: degrees Celsius; first 2 digits, temperature <u>'</u> / <u>'</u> last 2 digits, dew-point temperature; <u>M</u> inus for below zero, e.g., M06 Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013)	OVC010CB 18/16 A2992

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<p>WS010/31022KT</p> <p>FM1930</p> <p>TEMPO 2022</p> <p>PROB40 0407</p> <p>BECMG 1315</p>	<p>In U.S. TAF, non-convective low-level ($\leq 2,000$ ft) <u>Wind Shear</u>; 3-digit height (hundreds of ft); <u>"Z"</u>; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u></p> <p>In METAR, <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C</p> <p><u>From</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.</p> <p><u>TEMPO</u>rary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period</p> <p><u>PROB</u>ability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period</p> <p><u>BECOM</u>ing: change expected during 2-digit hour beginning and 2-digit hour ending time period</p>	<p>RMK SLP045 T01820159</p>

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFIER			
Intensity or Proximity			
- Light	"no sign"	Moderate	+ Heavy
VC Vicinity: but not at aerodrome; in U.S. METAR , between 5 and 10SM of the point(s) observation; in U.S. TAF , 5 to 10SM from center of runway complex (elsewhere within 8000m)			
Descriptor			
MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing
WEATHER PHENOMENA			
Precipitation			
DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			
Obscuration			
BR Mist ($\geq 5/8SM$)	FG Fog ($< 5/8SM$)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust
Other			
SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥ 10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS
KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number.....703-904-4400

RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

®ALBUQUERQUE CENTER – 134.6 132.8 H-4-5-6-7, L-5-6-7-8-10-15-17-19
 Alamogordo – **132.65** 132.65
 Animas – 134.45 **133.0** (KZAB)
 Carlsbad – 135.875
 Childs Peak – **135.15 132.45** 126.45 125.25
 Clines Corner – **133.65** 133.65 132.8 125.075
 El Paso B – 128.2 **125.525**
 Globe Nr 1 – **135.725 132.9** 132.9
 Globe Nr 2 – **135.15** 133.85 **132.35** 132.35 125.4
 Mesa Rica – **125.075 119.45**
 Mount Dora – **133.05** 127.85
 Prescott – **135.325 134.325** 128.45
 Raton – 132.8
 Roswell – **132.65** 132.65
 Sandia Mountain – 132.8
 Silver City – 134.45
 Tesuque Peak – 132.8
 Truth or Consequences – 128.2
 Tucson – 134.45 **133.0**
 Tucumcari – **132.32 126.92** 126.85 **119.45**
 West Mesa – **134.6 133.65** 133.65 124.325 **119.45**
 Winslow – **128.125** 124.5
 Zuni – **134.6 132.9** 132.9 124.325 **120.55**

®DENVER CENTER – 125.9 H-1-2-3-4-5-6, L-8-9-10-11-12-13-14-15
 Alamosa – 128.375 (KZDV)
 Aspen – 134.5 **132.85** 125.35 119.85
 Brush A – 133.95
 Brush B – 118.475
 Cortez – 134.7 118.575
 Denver – 133.4 **132.85** 128.65 **126.875** 125.95
 Denver A – 126.5
 Denver B – 119.85
 Durango – 118.575
 Eastonville – **134.975**
 Farmington – **128.125 125.675** 118.575
 Goodland – 132.5
 Grand Mesa – **135.125 134.275 126.725 125.675**
 Grand Mesa A – 125.35
 Grand Mesa B – 134.5
 Gunnison – **133.525** 125.35
 Hanksville – 127.55
 Hayden – **128.325** 120.475
 Kremmling – **132.85** 128.65
 La Junta – **134.125** 133.4 **132.225** 128.37
 Montrose – 125.35
 Ogallala – **126.325** 132.7
 Pueblo – **135.4 132.225** 128.375
 Tuba City – **132.875** 127.55 **118.225**
 Walton Peak – 126.5

®L. A. CENTER H-3-4, L-3-4-5-7-8-9, A-2
 Arr—Dep U.S. – **135.45 134.55 134.4** 133.4 **132.15** 128.05 **127.4** 126.4 126.0 119.0 (KZLA)
 Bakersfield – 127.1
 Baldwin Hills – 132.85
 Barstow – 134.65 **133.55** 132.5 132.3 126.35 **125.725**
 Blythe – **134.475 127.525**
 Cedar City – **135.55 135.25 127.35** 124.2
 Edom Hill – 133.75 **126.7**
 Julian – **127.525 126.775**
 Keeler – **124.625** 124.625
 Laguna – 128.6 128.15 **125.65** 125.65 **119.95**
 Lebec – **135.3 128.375**

Mount Potosi – 132.625 124.625 124.625
 Nelson – 134.65 127.35 124.85 124.2 118.025
 Ontario – 125.65
 Palmdale – 132.5 125.275
 Peach Springs – 128.075
 Pleasants Peak – 132.85 125.275 119.95
 Riverside – 126.35
 Saddle Peak – 132.6 125.8
 San Luis Obispo – 119.05
 Santa Barbara – 135.5 132.15 126.525 119.05
 Santa Catalina – 134.575
 Seligman – 133.2 124.85
 Tonopah – 124.625
 Twentynine Palms – 133.2 128.15 126.35
 Whittier – 125.275
 Yuma – 126.775

® OAKLAND CENTER

H-3-4, L-2-3-7-5-9-11, A-2
(KZOA)

Angels Camp – 134.375 132.95 127.95 126.85 121.25 119.75
 Bishop – 125.75
 Fallon – 134.45 128.8
 Ferndale – 134.15 134.15
 Fresno – 134.375 133.7 132.8 126.9 123.8
 Half Moon Bay – 134.15 134.15 127.45 125.45 119.475
 Hollister – 127.45
 Mina – 132.05 127.175 125.75
 Mount Tamalpais – 127.8
 Priest – 134.55 133.7 132.8 128.7
 Red Bluff – 134.975 132.2 119.975
 Reno – 134.45 128.8
 Sacramento – 132.95
 San Luis Obispo – 128.7
 South Lake Tahoe – 134.3
 Squaw Valley – 127.95
 Tonopah – 132.05 125.75
 Ukiah – 134.975 132.2 127.8 119.975

® SALT LAKE CITY CENTER

H-1-2-3, L-9-11-12-13-14
(KZLC)

Battle Mountain – 132.25 128.725
 Bryce Canyon – 133.6
 Cedar City – 125.575 125.575
 Delle – 132.025 128.55 128.55
 Delta – 127.825 125.575
 Elko – 132.25 128.725
 Ely – 133.45
 Fairfield – 133.9
 Francis Peak – 135.775 127.7 119.95
 Hanksville – 133.6 133.6
 Myton – 135.775 119.95
 Sunnyside – 133.9 127.925 127.925 125.575
 Tonopah – 133.45 133.45
 Wilson Creek – 134.525 133.45 133.45 127.925 127.925
 Winnemucca – 132.25

® SEATTLE CENTER

H-1-3, L-1-2-11-13

Antelope Mountain – 124.85
 Arcata – 124.85
 Ferndale – 135.15 124.85
 Klamath Falls – 134.9 127.6

(KZSE)

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

ALBUQUERQUE AFSS

ALBUQUERQUE RCO 122.0 **122.55**
 ALAMOGORDO RCO 122.15
 ANTON CHICO VORTAC 117.8T 122.1R
 CARLSBAD RCO **122.65**
 CIMARRON VORTAC 116.4T 122.1R
 CLINES CORNERS RCO 122.3
 CLOVIS RCO 122.5
 CORONA VORTAC 115.5T 122.1R
 DEMING RCO 122.2
 FARMINGTON RCO **122.4**
 GALLUP VORTAC 115.1T 122.1R **122.6**
 HOBBS RCO 122.2
 LAS VEGAS RCO 122.6
 ROSWELL RCO **122.45**
 RUIDOSO RCO 122.25
 SANTA FE RCO 122.2
 SILVER CITY VORTAC 110.8T 122.1R
 SOCORRO VORTAC 116.8T 122.1Re
 TAOS VORTAC 117.6T 122.1R 122.25
 TRUTH OR CONSEQUENCES RCO 122.2
 TUCUMCARI RCO **122.35**
 ZUNI RCO 122.05

CEDAR CITY AFSS

ABAJO PEAK RCO 122.55
 BONNEVILLE VORTAC 112.3T 122.1R
 BRYCE CANYON RCO 122.2
 BULLFROG BASIN RCO **122.4**
 CARBON RCO 122.2
 CEDAR CITY RCO 122.0 122.2 122.6
 DELLE RCO **122.5**
 DELTA RCO 122.55
 FAIRFIELD RCO 122.25
 FRANCIS PEAK RCO 122.2
 HALLS CROSSING RCO 122.4
 HANKSVILLE RCO 122.65
 LUCIN VORTAC 113.6T 122.1R
 MILFORD VORTAC 112.1T 122.1R
 MOAB RCO 122.3
 MYTON VORTAC 112.7T 122.1R
 OGDEN RCO 122.45
 RICHFIELD RCO **122.5**
 ST GEORGE RCO 122.5
 SALT LAKE CITY RCO 122.4
 VERNAL RCO 122.35

DENVER AFSS

AKRON RCO 120.675
 ALAMOS RCO 122.15
 BADGER MOUNTAIN RCO 122.2
 BLACK FOREST RCO 122.25
 BLUE MESA RCO 122.55
 CORTEZ RCO 122.3
 DENVER RCO 122.0 122.2 122.35 123.65
 DOVE CREEK RCO 122.5
 DURANGO RCO **122.35**
 EAGLE RCO 122.2
 FORT COLLINS-LOVELAND RCO 122.4
 GILL RCO 122.65
 GLENWOOD SPRINGS RCO 122.2
 GRAND JUNCTION RCO 122.6
 GRAND MESA RCO 122.2
 HAYDEN RCO 122.25
 KREMMLING RCO 122.3
 LA JUNTA RCO **122.6**

LAMAR VORTAC 116.9T 122.1R
LIMON RCO 122.475
MEEKER RCO 122.15
MONTROSE RCO 122.65
PUEBLO RCO 122.2
RANGELY RCO 122.65
RED TABLE MOUNTAIN RCO 122.4
RIFLE RCO 122.5
STEAMBOAT SPRINGS RCO 122.2
TELLURIDE RCO 122.15
TRINIDAD RCO 122.2

HAWTHORNE AFSS

BURBANK RCO 122.35
FILLMORE VORTAC 112.5T 122.1R
GUADALUPE VOR 111.0T 122.1R
HAWTHORNE RCO 122.0 122.2 122.5
PASO ROBLES RCO 122.4
SAN MARCUS VORTAC 114.9T 122.1R 122.3

OAKLAND AFSS

ARCATA RCO 122.6
CRESCENT CITY RCO 122.3
EUREKA RCO 122.35
GARBERVILLE RCO 122.3
MOUNTAIN VIEW RCO **122.5**
MOUNT TAMALPAIS RCO **122.35**
OAKLAND RCO 122.0 122.2 **122.5** 129.4 131.95
POINT ARENA RCO 122.6
SALINAS RCO **122.6**
UKIAH RCO **122.35**

PRESCOTT AFSS

AJO RCO 122.65
BAGDAD RCO 122.5
BISBEE RCO 122.4
BLACK METAL PEAK RCO 122.55
BUCKEYE VORTAC 110.6T 122.1R
COCHISE VORTAC 115.8T 122.1R
DOUGLAS RCO 122.6
FLAGSTAFF VOR/DME 113.85T 123.65R
GILA BEND VORTAC 116.6T 122.1R
GLOBE RCO 122.3
GRAND CANYON RCO 123.65
KAYENTA RCO 122.45
KINGMAN VOR/DME 108.8T 122.1R
MINGUS MOUNTAIN RCO **122.3**
MOUNT LEMMON RCO 122.4
NEEDLES VORTAC 115.2T 122.1R
NOGALES RCO 122.4
PAGE RCO 122.6
PEACH SPRINGS RCO 122.25
PHOENIX RCO 122.2 122.6
PRESCOTT RCO 122.2 122.4
SAFFORD RCO 122.3
ST JOHNS VORTAC 112.3T 122.1R
STANFIELD VORTAC 114.8T 122.1R
TUBA CITY VORTAC 113.5T 122.05R
TUCSON RCO 122.2
WINSLOW RCO 122.6
YUMA RCO 122.2

RANCHO MURIETA AFSS

ANGELS CAMP RCO **122.3**
ANTELOPE MOUNTAIN RCO 122.4
BAKERSFIELD RCO **122.45**
CHICO VOR/DME 109.8T 122.1R
EL NIDO VOR/DME 114.2T 122.1R
FALL RIVER MILLS RCO 122.4
FELLOWS VORTAC 117.5T 122.1R
FORT JONES VOR/DME 109.6T 122.1R

FRESNO RCO 122.2 **122.55**
GORMAN VORTAC 116.1T 122.1R
HANGTOWN VOR/DME 115.5T 122.1R
MARYSVILLE VOR/DME 110.8T 122.1R 122.6
MAXWELL VORTAC 110.0T 122.1R
MODESTO VOR/DME 114.6T 122.1R
PANOCHE VORTAC 112.6T 122.1R
QUINCY RCO 122.4
RANCHO MURIETA RCO 122.2
RED BLUFF RCO **122.4**
REDDING VOR/DME 108.4T 122.1R
SACRAMENTO RCO **122.05**
STOCKTON RCO 122.65
TULE PORTERVILLE VOR/DME 109.2T 122.1R
VISALIA VOR/DME 109.4T 122.1R
WEAVERVILLE RCO 122.4

RENO AFSS

BEATTY VORTAC 114.7T 122.1R
COALDALE VORTAC 117.7T 122.1R
CURRANT RCO 122.3
ELKO RCO 122.6
ELY RCO 122.2
EUREKA RCO 122.3
HAZEN VORTAC 114.1T 122.1R
JACKPOT RCO 122.5
LAS VEGAS RCO 122.4
LOVELOCK RCO 122.4
MINA VORTAC 115.1T 122.1R
MORMON MESA VORTAC 114.3T 122.1R
MOUNT LEWIS RCO **122.65**
MOUNT POTOSI RCO 122.35
RENO RCO 122.2 122.5
SOD HOUSE RCO 122.6
SQUAW VALLEY RCO 122.25
TONOPAH RCO 122.6
WELLS VOR 114.2T 122.1R
WILSON CREEK VORTAC 116.3T 122.1R
WINNEMUCCA RCO 122.3

RIVERSIDE AFSS

BARSTOW RCO 122.3
BISHOP RCO 122.6
BLYTHE RCO 122.4
DAGGETT RCO 122.2
GOFFS VORTAC 114.4T 122.05R
FURNACE CREEK RCO 122.2
HECTOR VORTAC 112.7T 122.1R
HOMELAND VOR 113.4T 122.1R
LANCASTER RCO 122.2
MAMMOTH RCO 122.15
NEEDLES RCO 122.2
PALM SPRINGS VORTAC 115.5T 122.1R
PARKER VORTAC 117.9T 122.1R
POMONA RCO 123.65
RAND MOUNTAIN RCO 122.4
RIVERSIDE RCO 122.05 122.2
SANTA ANA RCO 122.45
THERMAL RCO **122.3**
TWENTYNINE PALMS VORTAC 114.2T 122.1R

SAN DIEGO AFSS

BARD VORTAC 116.8T 122.1R
IMPERIAL VORTAC 115.9T 122.1R 122.5
JULIAN RCO 123.65
OCEANSIDE VORTAC 115.3T 122.1R
SAN DIEGO RCO 122.2 122.4
YUMA RCO 122.6

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

ARIZONA

17777 N. Perimeter Drive, Suite 101
Scottsdale, AZ 85255
Telephone: 480-419-0111

CALIFORNIA

Fresno Air Terminal
4955 E. Anderson, Suite #110
Fresno, CA 93727-1573
Telephone: 559-487-5306

5001 Airport Plaza Drive, Suite #100
Long Beach, CA 90815
Telephone: 562-420-1755

2250 E. Imperial Highway, Suite #140
El Segundo, CA 90245
Telephone: 310-215-2150

1420 Harbor Bay Parkway, Suite 280
Alameda, CA 94502-7083
Telephone: 510-748-0122
Fax: 510-748-9559

6961 Flight Rd.
Riverside, CA 92504
Telephone: 951-276-6701

6650 Belleau Wood Lane
Sacramento, CA 95822
Telephone: 916-422-0272

8525 Gibbs Drive, Suite 120
San Diego, CA 92123
Telephone: 619-557-5281

San Francisco IFO
831 Mitten Road, Room 105
Burlingame, CA 94010-1303
Telephone: 650-876-2771

San Francisco CMO
863 Mitten Road, Building B
Burlingame, CA 94010-1303
Telephone: 650-876-9013

1250 Aviation Ave., Suite 295
San Jose, CA 95110-1130
Telephone: 408-291-7681

16501 Sherman Way, Suite 330
Van Nuys, CA 91406
Telephone: 818-904-6291

COLORADO

26805 E. 68th Avenue, Suite 200
Denver, CO 80249-6361
Telephone: 303-342-1100

NEVADA

7181 Amigo Street, Suite 180
Las Vegas, NV 89119
Telephone: 702-269-1445
Fax: 702-269-8013

4900 Energy Way
Reno, NV 89502
Telephone: 775-858-7700

NEW MEXICO

1601 Randolph Road SE, Suite 200N
Albuquerque, NM 87106
Telephone: 505-764-1200
1-800-531-8999 (NM only)
1-800-531-1124

UTAH

1020 North Flyer Way
Salt Lake City, UT 84116
Telephone: 801-257-5020

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90-170 incl) altitude flight level assignment in hundred of feet.
12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.
 - Sun..... 1300-2259 local time.
 - Mon thru Fri 0701-2259 local time.
 - Sat 0701-1459 local time.
14. Use current SIDs and STARSS for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
SAN FRANCISCO/OAKLAND METRO AREA		
From SAN FRANCISCO Area: West Bay Airports		
Los Angeles Area	(70-90-110-130-150-170) V27 VTU V299 SADDE V107 LAX	1400-0800
From OAKLAND Area: East Bay Airports		
Los Angeles Area	(70-90-110-130-150-170) V109 PXN V113 V485 V299 SADDE V107 LAX	1400-0800

HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
ALBUQUERQUE (ABQ)		
Chicago O'Hare (ORD).....	J18 GCK J96 IRK BDF-STAR	1100-0400
Houston (HOU).....	(Turbojets) LLO TEXNN-STAR	
Houston (IAH).....	LLO RIICE-STAR.....	
ASPEN (ASE)		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
BURBANK (BUR)		
Chicago O'Hare (ORD).....	(all B747, B767, B727, DC10, DC87, L1011) DAG LAS BCE MTU OCS J94 ONL J148 MCW JVL-STAR.....	0000-2359
	or	
	(all other jets) DAG EED DRK J96 IRK BDF-STAR..	0000-2359
Detroit Metro-Wayne Co (DTW)	[BUR OBH] OBH J100 DBQ BAE MKG POLAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	[BUR OBH] OBH J100 DBQ BAE MKG LAN SPRTN-STAR	1100-0300
DENVER (DEN)		
Boca Raton (BCT).....	[DEN ONL] (Turbojets-GPS or DME/DME-IRU equipped) RZC MEM VUZ MGM SZW PRRIE (RNAV)-STAR	
Boston (BOS).....	[DEN ONL] J94 DBQ BAE J16 ALB GDM-STAR	
Chicago O'Hare (ORD).....	[DEN ONL] MCW JVL-STAR	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Dallas/Fort Worth (DFW)	J17 AMA J58 SPS UKW	
Detroit Metro-Wayne Co (DTW)	[DEN OBH] J100 DBQ BAE MKG POLAR-STAR	
Fort Lauderdale (FLL)	(all others) [DEN ICT] RZC VUZ MGM SZW J41 PIE FORTL-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) [DEN ICT] RCZ VUZ MGM SZW JINGL (RNAV)-STAR	
Ft Myers (RSW)	TTT J58 HRV Q105 BLVNS Q102 BAGGS TYNEE (RNAV)-STAR	
Houston (HOU).....	(Turbojets) PNH MQP ELLVR TEXNN-STAR	
Houston (IAH)	PNH MQP RIICE-STAR	
Kennedy (JFK).....	[DEN ONL] J94 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	
Miami (MIA)	(all others) [DEN ICT] RZC VUZ MGM SZW J41 PIE CYY-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) [DEN ICT] ICT RZC VUZ MGM SZW SSCOT (RNAV)-STAR	
Newark (EWR).....	IOW GIJ J554 CRL J584 SLT FQM-STAR	
Orlando Intl (MCO).....	[DEN ICT] RZC MEM J41 PIE LAL	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) ICT RZC MEM J41 PIE COSTR (RNAV)-STAR	1100-0400
Palm Beach (PBI)	[DEN ICT] (Turbojets-GPS or DME/DME-IRU equipped) RZC MEM VUZ MGM SZW WLACE (RNAV)-STAR.....	
	or	
	[DEN ICT] (Turbojets-GPS or DME/DME-IRU equipped) RZC MEM VUZ MGM SZW CTY WLACE (RNAV) -STAR	
Pittsburgh (PIT)	[DEN JOT] JOT J146 J34 DJB V30 ACO V337 CUTTA	1500-0100
Sarasota/Bradenton (SRQ).....	DFW J58 COVIA SRQ-STAR	
Tampa (TPA)	[DEN ICT] RZC VUZ MGM SZW DARBS-STAR	
	or	
	[DEN ICT optional] (GPS or DME/DME-IRU equipped) ICT RZC VUZ MGM SZW FOXX (RNAV)-STAR.....	

Terminals	Route	Effective Times (UTC)
West Palm Beach (PBI)	[DEN ICT] (Turbojets-GPS or DME/DME-IRU equipped) RZC MEM VUZ MGM SZW WLACE (RNAV)-STAR	
	or	
	[DEN ICT] (Turbojets-GPS or DME/DME-IRU equipped) RZC MEM VUZ MGM SZW CTY GULLO (RNAV)-STAR	
FRESNO (FAT)		
Denver	OAL J148 DTA J84 EKR TOMSN-STAR	1400-0000
LAS VEGAS (LAS)		
Chicago O'Hare (ORD)	(FL240 and above, All) BCE MTU OCS J94 ONL J94 DBQ JVL JVL-STAR	0000-2359
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Detroit/Wayne Co (DTW)	BAE MKG POLAR-STAR	
	or	
	PXV VHP FWA MIZAR-STAR	
Houston (HOU)	(Turbojets) LLO TEXNN-STAR	
	or	
	FST SAT LISSE-STAR	
Houston (IAH)	LLO RIICE-STAR	
	or	
	FST SAT GLAND-STAR	
LONG BEACH (LGB)		
Dallas/Fort Worth (DFW)	TRM J169 TFD J50 SSO J4 INK JEN	1400-2300
Detroit Metro-Wayne Co (DTW)	J100 DBQ BAE MKG POLAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	J100 DBQ BAE MKG LAN SPRTN-STAR	1100-0300
Portland, OR (PDX)	EHF J65 RBL	1300-0600
Seattle/Tacoma (SEA)	EHF CZQ LIN	1300-0500
LOS ANGELES (LAX)		
Boston (BOS)	J9 MLF J107 OCS J94 DBQ BAE J16 ALB GDM-STAR	
	or	
	J9 MLF J107 DDY J158 ABR J70 GEP J106 GRB J38 ECK J16 ALB GDM-STAR	
Chicago O'Hare (ORD)	(all B747, B767, B727, DC10, DC87, L1011) DAG LAS BCE MTU OCS J94 ONL J148 MCW JVL-STAR	1100-0300
	or	
	(all other jets) TRM J78 DRK J96 IRK BDF-STAR	1100-0300
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Detroit Metro-Wayne (DTW)	BAE MKG POLAR-STAR	
	or	
	PXV VHP FWA MIZAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	J100 DBQ BAE MKG LAN SPRTN-STAR	1100-0300
Houston (HOU)	FST J138 SAT LISSE-STAR	
Houston (IAH)	FST J138 SAT GLAND-STAR	
Kennedy (JFK)	DAG J100 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	
	or	
	J146 DVC J197 GLD J146 GIJ J554 JHW J70 LVZ LENDY-STAR	0000-1400
	or	
	DAG J100 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	1700-2359
Newark (EWR)	DAG J100 OBH J10 IOW J60 JOT J146 GIJ J554 CRL J584 SLT FQM-STAR	1700-1759
		and 2100-2159
Pittsburgh (PIT)	JOT J146 J34 DJB V30 ACO V337 CUTTA	1300-0100
	or	
	J146 DVC J197 GLD J192 IOW J146 J34 DJB V30 ACO V337 CUTTA	
Portland, OR (PDX)	EHF J65 RBL	1300-0600
Seattle/Tacoma (SEA)	EHF CZQ LIN	1300-0500

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
MONTEREY (MRY)		
Denver (DEN)	OAL J148 DTA J84 EKR TOMSN-STAR	1400-0000
OAKLAND (OAK)		
Chicago O'Hare (ORD)	(FL240 and above, Jets) to join ONL J94 DBQ JVL JVL-STAR	0000-2359
Denver (DEN)	J84 EKR TOMSN-STAR	1400-0000
	or	
	FMG J94 BAM J154 TCH J56 CHE TOMSN-STAR ..	1400-0000
Detroit Metro-Wayne Co (DTW)	SAC FMG J94 DBQ BAE MKG POLAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	SAC FMG J94 DBQ BAE MKG LAN SPRTN-STAR ...	1400-0400
Houston (HOU)	(Turbojets) PNH MQP ELLVR TEXNN-STAR	
Houston (IAH)	PNH MQP RIICE-STAR	
Newark (EWR)	SAC FMG J94 OBK J584 SLT FQM-STAR	0000-2359
	or	
	FMG J94 OBK J584 CRL J584 SLT FQM-STAR	
Phoenix (PHX)	OAL J92 DRK	1600-0500
ONTARIO (ONT)		
Chicago O'Hare (ORD)	(FL240 and above, All DC8, B747, B767, B727, DC10, L1011) DAG LAS BCE MTU OCS J94 ONL J94 DBQ JVL JVL-STAR	0000-2359
	or	
	(FL240 and above, All others) TRM J78 DRK J96 IRK BDF3	0000-2359
Dallas/Fort Worth (DFW)	TRM J169 TFD J50 SSO J4 INK JEN	1400-2300
Detroit Metro-Wayne Co (DTW)	DAG OBH J100 DBQ BAE MKG POLAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	OBH J100 DBQ BAE MKG LAN SPRTN-STAR	1100-0300
Houston (HOU)	FST J138 SAT LISSE-STAR	
Houston (IAH)	FST J138 SAT GLAND-STAR	
Kennedy (JFK)	DAG J100 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	1400-2200
Pittsburgh (PIT)	DAG J146 DVC J197 GLD J192 IOW J146 J34 DJB V30 ACO V337 CUTTA	1300-0100
Portland (PDX)	EHF J65 RBL	1300-0600
Seattle/Tacoma (SEA)	EHF CZQ LIN	1300-0500
Vancouver (CYVR)	EHF CZQ LIN	1800-2100
		and 2330-0200
PALM SPRINGS (PSP)		
Chicago O'Hare (ORD)	(FL240 and above, All DC8, B747, B767, B727, DC10, L1011) join ONL J94 DBQ JVL JVL-STAR or (FL240 and above, All others) join DRK J96 IRK J26 BDF V10 PLANO	0000-2359
PHOENIX (PHX)		
Chicago O'Hare (ORD)	J18 SLN J96 IRK BDF-STAR	0000-2359
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Dallas/Fort Worth (DFW)	CIE J2 ELP J50 INK JEN	1400-2300
Detroit Metro-Wayne (DTW)	BAE MKG POLAR-STAR	
	or	
	PXV VHP FWA MIZAR-STAR	
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	PAYSO GUP J102 ALS J13 FQF J128 DBQ BAE MKG LAN SPRTN-STAR	1100-0300
Houston (HOU)	FST J138 SAT LISSE-STAR	
Houston (IAH)	FST J138 SAT GLAND-STAR	
Kennedy (JFK)	J18 GCK HYS PWE J192 IOW J60 JOT J146 GIJ J554 JHW J70 LVZ LENDY-STAR	0000-1429
	or	
	GUP J102 ALS PUB GLD J146 GIJ J554 JHW J70 LVZ LENDY-STAR	0000-1429
	or	
	GUP J102 ALS PUB GLD J197 OBH J100 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	1430-2359

Terminals	Route	Effective Times (UTC)
Newark (EWR)	J18 GCK HYS PWE J192 IOW J60 JOT J146 GIJ J554 CRL J584 FQM-STAR	
	or	
	GUP J102 ALS PUB GLD J146 GIJ J554 CRL J584 FQM-STAR	0000-1459
Oakland (OAK)	J92 OAL ECA V195	1600-0500
San Francisco (SFO)	J92 OAL MOD	1600-0500
San Jose (SJC)	J92 OAL HYP	1600-0500
RENO (RNO)		
Chicago O'Hare (ORD)	J32 CZI J82 FSD J16 MCW JVL-STAR	0000-2359
Denver (DEN)	MVA EKR TOMSN-STAR	1400-0000
	or	
	FMG J94 BAM J154 TCH J56 CHE TOMSN-STAR ..	1400-0000
SACRAMENTO (SAC)		
Chicago O'Hare (ORD)	(FL240 and above, Jets) to join ONL J94 DBQ JVL JVL-STAR	0000-2359
Denver (DEN)	J84 EKR TOMSN-STAR	1400-0000
	or	
	FMG J94 BAM J154 TCH J56 CHE TOMSN-STAR ..	1400-0000
Phoenix (PHX)	OAL J92 DRK	
SALT LAKE CITY (SLC)		
Boston (BOS)	TCH MCW J16 ECK BUF J16 ALB GDM GDM-STAR	
	or	
	OCS J107 DDY J158 ABR J70 GEP J106 GRB J38 ECK J16 ALB GDM-STAR	
	or	
	OCS J94 DBQ BAE J16 ALB GDM-STAR	
Chicago O'Hare (ORD)	(FL240 and above, All) OCS J94 ONL J94 DBQ JVL JVL-STAR	0000-2359
Houston (HOU)	(Turbojets) PNH MQP ELLVR TEXNN-STAR	
Houston (IAH)	PNH MQP RIICE-STAR	
Kennedy (JFK)	OCS J94 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	0700-2359
SAN DIEGO (SAN)		
Chicago O'Hare (ORD)	IPL J18 SLN J96 IRK BDF-STAR	0000-2359
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Dallas/Fort Worth (DFW)	IPL J18 GBN J50 SSO J4 INK JEN	1400-2300
Detroit/Wayne (DFW)	BAE MKG POLAR-STAR	
	or	
	PXV VHP FWA MIZAR-STAR	
Houston (HOU)	FST J138 SAT LISSE-STAR	
Houston (IAH)	FST J138 SAT GLAND-STAR	
Kennedy (JFK)	IPL J18 PXR J102 ALS PUB GLD J197 OBH J100 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	1430-2359
Pittsburgh (PIT)	JOT J146 J34 DJB V30 ACO V337 CUTTA	1300-0100
	or	
	DVC J197 GLD J192 IOW J146 J34 DJB V30 ACO V337 CUTTA	
Portland (PDX)	EHF J65 RBL J1	1300-0600
Seattle/Tacoma (SEA)	EHF CZQ LIN J189 BTG OLM-STAR	1300-0500
Vancouver (CYVR)	EHF CZQ LIN J189 LMT J65 SEA PAE ACORD-STAR	1800-2100 and 2330-0200
SAN FRANCISCO (SFO)		
Boston (BOS)	FMG J94 DBQ BAE J16 ALB GDM-STAR	
Chicago O'Hare (ORD)	FMG J32 CZI J82 FSD J16 MCW JVL-STAR	1500-0400
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Denver (DEN)	J84 EKR TOMSN-STAR	1400-0000
	or	
	FMG J94 BAM J154 TCH J56 CHE TOMSN-STAR ..	1400-0000
Detroit Metro-Wayne (DTW)	PXV VHP FWA MIZAR-STAR	
	or	
	BAE MKG POLAR-STAR	

Terminals	Route	Effective Times (UTC)
Detroit Metro Area (PTK), (YIP), (ARB) (DET), (CYQG)	SAC FMG J94 DBQ BAE MKG LAN SPRTN-STAR	1400-0400
Houston (HOU)	(Turbojets) PNH MQP ELLVR TEXNN-STAR	
Houston (IAH)	PNH MQP RIICE-STAR	
Kennedy (JFK)	FMG J94 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	0000-2359
Newark (EWR)	FMG J94 OBK J584 SLT FQM-STAR	0000-2359
Phoenix (PHX)	OAL J92 DRK	1600-0500
Pittsburgh (PIT)	FMG J94 BFF OBH DSM IOW J60 JOT J146 J34 DJB V30 ACO V337 CUTTA	1300-0100
Toronto (CYYZ)	FMG J32 ABR J70 GEP J106 GRB J38 ECK YWT-STAR	
SAN JOSE (SJC)		
Chicago O'Hare (ORD)	(FL240 and above, All) J32 BAM J94 DBQ JVL JVL-STAR	0000-2359
Denver (DEN)	J84 EKR TOMSN-STAR	1400-0000
Houston (HOU)	(Turbojets) LLO TEXNN-STAR	
Houston (IAH)	LLO RIICE-STAR	
Phoenix (PHX)	OAL J92 DRK	1600-0500
SANTA ANA (SNA)		
Chicago O'Hare (ORD)	TRM J78 DRK J96 IRK J26 BDF V10 PLANO	
Dallas/Fort Worth (DFW)	TRM J169 TFD J50 SSO J4 INK JEN	1400-2300
Detroit Metro-Wayne Co (DTW)	TRM PKE J96 DRK FLG J10 FQF J128 DBQ BAE MKG POLAR-STAR	1100-0300
Portland (PDX)	EHF J65 RBL J1 OED	1300-0600
Seattle/Tacoma (SEA)	EHF CZQ LIN J189 LMT	1300-0500
TUCSON (TUS)		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	OBK CRL HIMEZ-STAR	
Houston (HOU)	FST J138 SAT LISSE-STAR	
Houston (IAH)	FST J138 SAT GLAND-STAR	

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR DENVER TERMINAL AREA

SOUTHEAST		
Denver	over LAA QUAIL-STAR	
SOUTH		
Denver	over TBE J171 TODDE QUAIL-STAR	
.....	over ALS LARKS-STAR	
.....	over HBU POWDR-STAR	
SOUTHWEST		
Denver	over DVC J146 HBU POWDR-STAR	
.....	over TBC ABOTS LARKS-STAR	
.....	or	
.....	over TBC J128 HBU POWDR-STAR	
.....	over FMN LARKS-STAR	
.....	over ALS LARKS-STAR	
WEST		
Denver	over EKR TOMSN-STAR	
.....	over TCH J56 CHE TOMSN-STAR	
.....	over OCS J154 ALPOE RAMMS-STAR	
NORTHWEST		
Denver	over MBW RAMMS-STAR	
NORTH		
Denver	over BFF LANDR-STAR	
NORTHEAST		
Denver	over ONL J114 SNY LANDR-STAR	
.....	over OBH J10 LBF SAYGE-STAR	
EAST		
Denver	over OBH J10 LBF SAYGE-STAR	
.....	over GCK J154 RYLIE DANDD-STAR	

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR SALT LAKE CITY TERMINAL AREA

SOUTHEAST

Salt Lake City over JNC J12 HELPR SPANE-STAR.....
 over EKR MTU SPANE-STAR

SOUTH

Salt Lake City over BCE DTA-TCH

WEST

Salt Lake City over BVL BVL-STAR

NORTHWEST

Salt Lake City over BYI BEARR-STAR.....

NORTH

Salt Lake City over PIH BEARR-STAR

NORTHEAST

Salt Lake City over JAC BRIGHAM CITY-STAR

EAST

Salt Lake City over OCS BRIGHAM CITY-STAR

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic overflying Salt Lake Center, westbound south of a line from Rock Springs VORTAC (OCS) to Mina VORTAC (MVA):		
Salt Lake City (ZLC)	TATOO DOUGLE MADWIN-STAR..... or RUMPS OAL MODESTO-STAR	
	TPH CANDA HYPER (RNAV)-STAR	
Traffic overflying Salt Lake Center, westbound north of a line from Rock Springs VORTAC (OCS) to Mina VORTAC (MVA):		
Salt Lake City (ZLC)	FMG RAIDR (RNAV)-STAR	
	FMG ILA PYE GOLDEN GATE-STAR..... or FMG HYPER (RNAV)-STAR	
Transcon flights overflying Salt Lake City Center, westbound south of Wasatch VORTAC (TCH):		
Salt Lake City (ZLC)	DTA TATOO DUGLE MADWIN-STAR	
Salt Lake City (ZLC)	DTA RUMPS OAL MODESTO-STAR	
Salt Lake City (ZLC)	ILC TATOO DUGLE MADWIN-STAR	
Salt Lake City (ZLC)	ILC RUMPS OAL MODESTO-STAR	
Transcon flights overflying Salt Lake City Center, westbound Wasatch VORTAC (TCH) or north of (TCH):		
Salt Lake City (ZLC)	FMG RAIDR (RNAV)-STAR	
Salt Lake City (ZLC)	FMG ILA PYE GOLDEN GATE-STAR	
Traffic departing Salt Lake City Center, westbound south of Wasatch VORTAC (TCH):		
Salt Lake City (ZLC)	TPH CANDA EL NIDO-STAR	
Traffic departing Salt Lake City Center, westbound from or north of Wasatch VORTAC (TCH):		
Salt Lake City (ZLC)	FMG EL NIDO-STAR	

HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J110	Farmington, NM to Boulder City, NV.....	West	1500-0300

Q-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

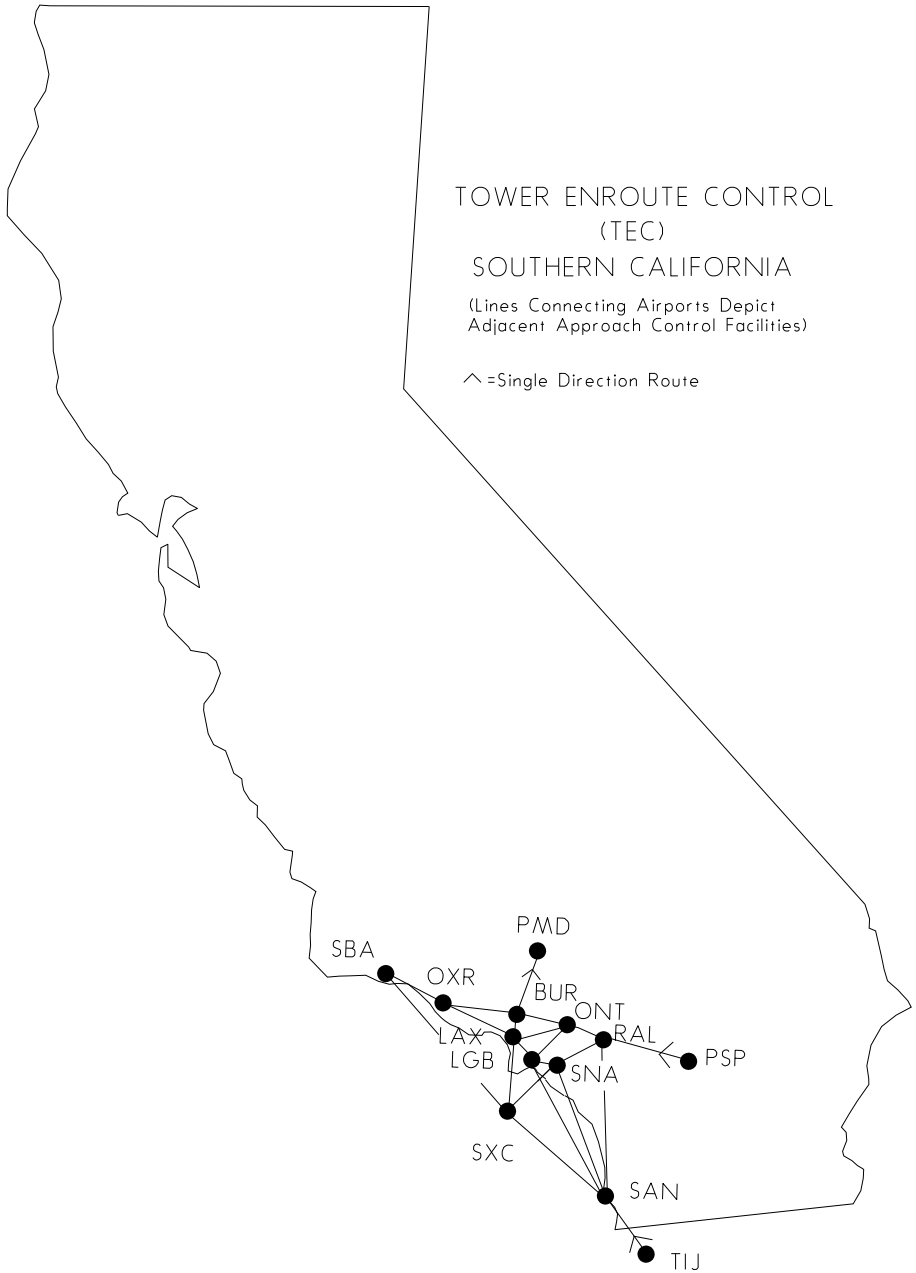
GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
Q2	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
Q3	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
Q4	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
Q5	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
Q7	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q9	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
Q9	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
Q13	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	None; GNSS required
Q15	All segments	None; GNSS required
	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IJU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
Q22	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL

Route	Segment	DME
Q24	LAKE CHARLES-BATON ROUGE BATON ROUGE-IRUBE IRUBE-PAYTN	AEX, DAS, LCH, MCB, LFT, BTR AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE WALNUT RIDGE-WLSUN WLSUN-POCKET CITY	ELD, MEM, LIT, FAM, RZC MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD PYRMD-HAKAT HAKAT-ESTEE ESTEE-POCKET CITY	EIC, LIT, ELD, OKM, TXK ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK ARG, LIT, FAM, SGF, MEM ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS MEMPHIS-SIDAE SIDAE-POCKET CITY	MEM, ARG, LIT, JAN, ELD, SQS MEM, PXV, BNA, BWG, ARG, ENL PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX JODOX-MARVELL MARVELL-TIIDE TIIDE-POCKET CITY	SQS, LIT, TXK SQS, LIT, ELD, MEM, ARG ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE GAGLE-CRAMM CRAMM-NASHVILLE NASHVILLE-SWAPP	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK JAN, SQS, MEM, ARG, VUZ, BNA, LIT BWG, MEM, VUZ, BNA, GQO BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK LITTLE ROCK-PROWL	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE MATIE-MEMPHIS MEMPHIS-SWAPP	LIT, SWB, TXK, BYP, EIC, ELD, SQS LIT, ARG, MEM, ELD, SQS BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO NEERO-WINEN WINEN-CORKR CORKR-DRAKE	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	RAZORBACK-TWITS TWITS-DEPEC DEPEC-NASHVILLE NASHVILLE-SWAPP	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU GQO, BWG, BNA, PXV, IIU VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN INCIN-LAREY LAREY-BESOM	DAS, LCH, SWB, IAH, LFK, HUB, AEX JAN, MCB, SWB, AEX JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS DOOMS-WINAP WINAP-MISLE	AEX, SWB, LCH, JAN, HEZ, MCB JAN, SQS, MEI, MCB MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK STRUK-DANVILLE DANVILLE-MUNCIE MUNCIE-HIDON HIDON-BUBAA BUBAA-PSYKO PSYKO-BRANAN BRANAN-MAALS MAALS-SUZIE SUZIE-EAST TEXAS EAST TEXAS-ELIOT	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC AIR, APE, HNN, CXR, HVQ, EWC, DJB AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN HEVVN-PLYER PLYER-SWABE SWABE-ST PETERSBURG ST PETERSBURG- CYPRESS	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD PIE, ORL, OMN, SRQ, TAY LAL, ORL, OMN, SRQ, PHK, PIE PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN

Route	Segment	DME
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
	Q110	THNDR-JAYMC
Q112	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q116	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
Q501	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
Q502	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q504	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
Q505	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
Q505	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB



TOWER ENROUTE CONTROL (TEC)

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Within the national airspace system it is possible for a pilot to fly IFR from one point to another without leaving approach control airspace. This is referred to as "Tower Enroute" which allows flight beneath the enroute structure. The tower enroute concept has been expanded (where practical) by reallocating airspace vertically/geographically to allow flight planning between city pairs while remaining within approach control airspace. Pilots are encouraged to use the TEC route descriptions provided in the Southwest U.S. Airport/Facility Directory when filing flight plans. Other airways which appear to be more direct between two points may take the aircraft out of approach control airspace thereby resulting in additional delays or other complications. All published TEC routes are designed to avoid enroute airspace and the majority are within radar coverage. The following items should be noted before using the graphics and route descriptions.

1. The graphic is not to be used for navigation nor detailed flight planning. Not all city pairs are depicted. It is intended to show geographic areas connected by tower enroute control. Pilots should refer to route descriptions for specific flight planning.

2. The route description contains four columns of information after geographic area listed in the heading, where the departure airport is located; i.e., the airport/airports of intended landing using FAA three letter/letter-two number identifiers, the coded route number (this should be used when filing the flight plan and will be used by ATC in lieu of reading out the full route description), the specific route (airway, radial, etc.), the altitude allowed for type of aircraft and the routes.

3. The word "DIRECT" will appear as the route when radar vectors will be used or no airway exists. Also this indicates that a Standard Instrument Departure (SID) or Standard Terminal Arrival (STAR) may be applied by ATC.

4. When a NAVAID or intersection identifier appears with no airway immediately preceding or following the identifier, the routing is understood to be DIRECT to or from that point unless otherwise cleared by ATC or radials are listed (See item 5).

5. Routes beginning and ending with an airway indicate that the airway essentially overflies the airport or radar vectors will be applied.

6. Where more than one route is listed to the same destination, ensure you file correct route for type of aircraft which is denoted after the route in the altitude column using J,M,P, or Q. These are listed after item 10 under Aircraft Classification.

7. Although all airports are not listed under the destination column, IFR flight may be planned to satellite airports in the proximity of major airports via the same routing.

8. Los Angeles International Airport (LAX) and four other airports (ONT-SAN-TOA-SNA) have two options due to winds and these affect the traffic flows and runways in use. To indicate the difference the following symbols are used after the airport: Runway Number, W for west indicating normal conditions, E for East, and N for North indicating other than normal operation. If nothing follows the airport use this route on either West, East, or North plan. Other destinations have different arrivals due to LAX being East and they have the notation "(LAXE)." Torrance Airport is also unique in that the airport is shared between Los Angeles and Coast area of Southern California TRACON; for Runway 11 departures use Coast area routings and for Runway 29 departures use Los Angeles area routings.

9. When filing flight plans, the coded route identifier, i.e. SANL2, VTUL4, POML3 may be used in lieu of the route of flight.

10. Aircraft types i.e. J, M, P, and Q are listed at the beginning of the altitude and should be used with the route of flight filed. (See Aircraft Classification below). The altitudes shown are to be used for the route. This allows for separation of various arrival routes, departure routes, and overflights to, from, and over all airports in the Southern California area.

LEGENDS

AIRCRAFT CLASSIFICATION

(J) = Jet powered

(M) = Turbo Props/Special (cruise speed 190 knots or greater)

(P) = Non-jet (cruise speed 190 knots or greater)

(Q) = Non-jet (cruise speed 189 knots or less)

BURBANK AREA

FROM: BUR VNY WHP

TO:	ROUTE ID	ROUTE	ALTITUDE
HHR	BURN1	V186 ADAMM V394 HHR RY25 LOC	PQ50
HHR	BURN2	V186 V264 POM V394 HHR RY25 LOC ..	JM70
HHR (LAXE)	BURN3	VNY095R ELMOO	JMPQ50
LAX	BURN4	VNY095R PURMS	JMPQ50
LAX (LAXE)	BURN5	VNY SMO	JM50PQ40
SMO	BURN6	VNY095R DARTS	JMPQ50
CCB	BURN7	V186 V264 POM	JM70PQ50
CNO EMT REI L65 AJO ONT POC RAL RIR RIV SBD	BURN8	V186 PDZ	PQ50
CNO EMT REI L65 AJO ONT POC RAL RIR RIV SBD	BURN9	V186 V264 POM V197 PDZ	JM70
HMT	BURN10	V186 PDZ V186 WESIN	PQ50
HMT	BURN11	V186 V264 POM V197 PDZ V186 WESIN	JM70
L67	BURN12	V186 PDZ PDZ078R EDITS	PQ50
L67	BURN13	V186 V264 POM V197 PDZ PDZ078R EDITS	JM70
F70	BURN14	V186 PDZ V186 NIKKL	PQ50
F70	BURN15	V186 V264 POM V197 PDZ V186 NIKKL	JM70
AVX	BURN16	V186 BAYJY V363 DANAH SXC065R SXC	PQ50
AVX	BURN17	TWINE V518 KIMMO V459 SLI V21 SXC ..	JM90
AVX (LAXE)	BURN18	V186 BAYJY V363 DANAH SXC065R SXC	JM50
LGB FUL SLI TOA	BURN19	V186 ADAMM V394 SLI	PQ50
SNA	BURN20	V186 BAYJY V363 POXKU V8 SLI	PQ50
LGB SNA FUL SLI TOA	BURN21	TWINE V518 KIMMO V459 SLI	JM90
FUL SLI TOA (LAXE)	BURN22	V186 ADAMM V394 SLI	JM50
SNA (LAXE)	BURN23	V186 BAYJY V363 POXKU V8 SLI	JM50
LGB (LAXE)	BURN24	V186 ADAMM V394 SLI	M50
LGB (LAXE)	BURN25	V186 BAYJY V363 DANAH V23 SLI	J70
CRQ NFG NKX OKB	BURN26	V186 ROBNN V458 OCN	PQ70
CRQ NFG NKX OKB	BURN27	TWINE V518 KIMMO V459 SLI V23 OCN	JM90
CRQ NFG NKX OKB (LAXE)	BURN28	V186 BAYJY V363 DANAH V23 OCN	JM70
MYF NRS NZY SAN SDM SEE	BURN29	V186 HAILE V66 MZB	PQ90
MYF NRS NZY SAN SDM SEE	BURN30A	TWINE V518 KIMMO V459 SLI V23 KELPS MZB	M90
MYF NRS NZY SAN SDM SEE	BURN30B	TWINE V518 KIMMO V459 SLI SLI171 LAX118 CARDI MZB320 MZB	J110
MYF NRS NZY SAN SDM SEE (LAXE)	BURN31	V186 BAYJY V363 DANAH V23 KELPS MZB	J110M90
SAN (SANE)	BURN32	V186 BAYJY V363 DANAH V165 SARGS ..	PQ50
SAN (SANE)	BURN33	TWINE V518 KIMMO V459 SLI V165 SARGS	J110M90
SAN (SANE) (LAXE)	BURN34	V186 POM164R V25 REDIN V165 SARGS	JM70
RNM	BURN35	V186 ROBNN V208 JLI	PQ70
RNM	BURN36	TWINE V518 KIMMO V459 SLI V23 OCN V208 JLI	JM90
RNM (LAXE)	BURN37	V186 BAYJY V363 DANAH V23 OCN V208 JLI	JM70
OXR CMA NTD	BURN38	FIM	JMPQ40
SBA	BURN39	FIM V186 DEANO V27 KWANG	JMPQ60

COAST AREA

FROM: FUL LGB SLI SNA TOA (RWY11)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	CSTN1	SLI V23 POPPR SMO125R SMO SMO311R SILEX	PQ40
BUR	CSTN2	SLI V23 LAX LAX316R SILEX	JM60
WHP VNY	CSTN3	SLI V23 POPPR SMO125R SMO SMO317R CANOG	PQ40
WHP VNY	CSTN4	SLI V23 LAX LAX320R CANOG	JM60
BUR VNY WHP (LAXE)	CSTN5	SLI SLI333R V186 VNY	JMPQ60
HHR	CSTN6	SLI SLI340R WELTZ HHR RY25 LOC	JM70PQ40

TO:	ROUTE ID	ROUTE	ALTITUDE
LAX	CSTN7	SLI	JM70PQ40
LAX (LAXE)	CSTN8	SLI V8 TANDY	JM50PQ40
SMO	CSTN9	SLI V23 POPPR SMO125R SMO	
		SMO059R ELMOO	PQ40
SMO	CSTN10	SLI V459 DARTS	JM80
SMO (LAXE)	CSTN11	SLI SLI333R V186 DARTS	JMPQ60
CCB EMT POC	CSTN12	SLI V8 POXKU V363 POM	JMPQ50
CNO REI L65 AJO ONT RAL RIR RIV SBD	CSTN13	SLI V8 PDZ	JM60PQ50
HMT	CSTN14	SLI V8 PDZ V186 WESIN	JM60PQ50
L67	CSTN15	SLI V8 PDZ PDZ078R EDITS	JM60PQ50
F70	CSTN16	SLI V8 PDZ V186 NIKKL	JM60PQ50
CRQ NFG NKX OKB	CSTN17	V25 PACIF V208 OCN	JM70
RNM	CSTN18	V25 PACIF V208 JLI	JM70
MYF NRS NZY SAN SDM SEE	CSTN19	V25 PACIF V208 LAX118R CARDI	
		MZB320R MZB	J110M90
SAN (SANE)	CSTN20	V25 REDIN V165 SARGS	J110M90
SBA	CSTN21	SLI V23 LAX V299 VTU VTU282R	
		KWANG	PQ60
SBA (LAXE)	CSTN22	SLI SLI333R V186 DEANO V27 KWANG..	MPQ60
SBA (LAXE)	CSTN23	SXC V208 VTU VTU282R KWANG	J100
NTD OXR CMA	CSTN24	SLI V23 POPPR SMO125R SMO VNY	PQ40
NTD CMA OXR (LAXE)	CSTN25	SLI SLI333R V186 FIM	MPQ60

FROM: LGB

TO:	ROUTE ID	ROUTE	ALTITUDE
SBA	CSTN26	LAX V299 VTU VTU282R KWANG	J100M80
NTD OXR CMA	CSTN27	SLI V23 LAX VNY	JM60

FROM: FUL SLI SNA TOA (RWY11)

TO:	ROUTE ID	ROUTE	ALTITUDE
SBA	CSTN28	SXC V208 VTU VTU282R KWANG	J100M80
NTD OXR CMA	CSTN29A	SLI V23 LAX VNY	M60
NTO OXR CMA	CSTN29B	SXC V208 VTU	J80

FROM: SNA

TO:	ROUTE ID	ROUTE	ALTITUDE
CRQ NFG NKX OKB	CSTN30	V23 OCN	PQ50
MYF NRS NZY SAN SDM SEE	CSTN31	V23 MZB	PQ50
RNM	CSTN32	V23 OCN V208 JLI	PQ70
SAN (SANE)	CSTN33	V23 OCN V165 SARGS	PQ50

FROM: FUL LGB SLI TOA (RWY11) when SNA South traffic

TO:	ROUTE ID	ROUTE	ALTITUDE
CRQ NFG NKX OKB	CSTN34	SLI V64 V363 DANAH V23 OCN	PQ50
RNM	CSTN35	SLI V64 V363 DANAH V23 OCN V208	
		JLI	PQ70
MYF NRS NZY SAN SDM SEE	CSTN36	SLI V64 V363 DANAH V23 MZB	PQ50
SAN (SANE)	CSTN37	SLI V64 V363 DANAH V165 SARGS	PQ50

FROM: FUL LGB SLI TOA (RWY 11) when SNA North traffic

TO:	ROUTE ID	ROUTE	ALTITUDE
CRQ NFG NKX OKB	CSTN38	V23 OCN	PQ50
MYF NRS NZY SAN SDM SEE	CSTN39	V23 MZB	PQ50
RNM	CSTN40	V23 OCN V208 JLI	PQ70
SAN (SANE)	CSTN41	V23 OCN V165 SARGS	PQ50

FROM: AVX

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	CSTN42	SXC V21 SLI V23 POPPR SMO125R	
		SMO SMO311R SILEX	PQ40
BUR (LAXE)	CSTN43	SXC V21 SLI V23 LAX LAX316R SILEX ...	PQ40
BUR	CSTN44	SXC V21 SLI V23 LAX LAX316R SILEX ...	JM60
WHP VNY	CSTN45	SXC V21 SLI V23 POPPR SMO125R	
		SMO SMO317R CANOG	PQ40
WHP VNY (LAXE)	CSTN46	SXC V21 SLI V23 LAX LAX320R CANOG .	PQ40
WHP VNY	CSTN47	SXC V21 SLI V23 LAX LAX320R CANOG .	JM60
CCB EMT POC	CSTN48	SLI V8 POXKU V363 POM	JMPQ50

TO:	ROUTE ID	ROUTE	ALTITUDE
CNO REI L65 AJO ONT RAL RIR RIV SBD....	CSTN49	SLI V8 PDZ	JM60PQ50
L67	CSTN50	SLI V8 PDZ PDZ078R EDITS	JM60PQ50
F70	CSTN51	SLI V8 PDZ V186 NIKKL	JM60PQ50
HMT	CSTN52	SLI V8 PDZ V186 WESIN	JM60PQ50
CRQ NFG NKX OKB	CSTN53	SXC V208 OCN	JMPQ50
MYF NRS NZY SAN SDM SEE	CSTN54	SXC V208 LAX118R CARDI MZB320R MZB	J110M90
RNM	CSTN55	SXC V208 JLI	JMPQ70
MYF NRS NZY SAN SDM SEE	CSTN56	SXC V208 OCN V23 MZB	PQ50
SAN (SANE)	CSTN57	SXC V208 OCN V165 SARGs	PQ50
NTD OXR CMA	CSTN58	SXC V208 VTU	JM80PQ60
SBA	CSTN59	SXC V208 VTU VTU282R KWANG	J100M80PQ60

LOS ANGELES AREA

FROM: LAX West (J Class)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	LAXN1	LAX316R SILEX	J50
WHP VNY	LAXN2	LAX320R CANOG	J50
AVX	LAXN3	LAXX DP SLI V21 SXC	J50
FUL LGB SLI SNA TOA	LAXN4	LAXX DP SLI	J50
CCB EMT POC	LAXN5	LAXX DP SLI V8 POXKU V363 POM	J90
CNO REI L65 AJO RAL RIR RIV SBD ONT....	LAXN6	LAXX DP SLI V8 PDZ	J90
HMT	LAXN7	LAXX DP SLI V8 PDZ V186 WESIN	J90
L67	LAXN8	LAXX DP SLI V8 PDZ PDZ078R EDITS....	J90
F70	LAXN9	LAXX DP SLI V8 PDZ V186 NIKKL	J90
CRQ NFG NKX OKB	LAXN10	LAXX DP SLI SLI171R ALBAS V25 PACIF V208 OCN	J110
MYF NRS NZY SAN SDM SEE	LAXN11	LAXX DP MZB	J110
RNM	LAXN12	LAXX DP SLI SLI171R ALBAS V25 PACIF V208 JLI	J110
SAN (SANE)	LAXN13	LAXX DP SLI SLI171R ALBAS V25 REDIN V165 SARGs	J110
OXR CMA NTD	LAXN14	VENTURA DP VTU	J60
SBA	LAXN15	VENTURA DP VTU VTU282R KWANG	J100

FROM: LAX East (J Class)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	LAXN16	LAX316R SILEX	J50
WHP VNY	LAXN17	LAX320R CANOG	J50
AVX	LAXN18	LAXX DP SLI V21 SXC	J50
FUL LGB SLI SNA TOA	LAXN19	LAXX DP SLI	J40
CCB EMT POC	LAXN20	LAXX DP SLI V8 POXKU V363 POM	J90
CNO REI L65 AJO RAL RIR RIV SBD ONT....	LAXN21	LAXX DP SLI V8 PDZ	J90
HMT	LAXN22	LAXX DP SLI V8 PDZ V186 WESIN	J90
L67	LAXN23	LAXX DP SLI V8 PDZ PDZ078R EDITS....	J90
F70	LAXN24	LAXX DP SLI V8 PDZ V186 NIKKL	J90
CRQ NFG NKX OKB	LAXN25	LAXX DP SLI SLI148R V25 PACIF V208 OCN	J110
MYF NRS NZY SAN SDM SEE	LAXN26	LAXX DP SLI SLI148R V25 PACIF V208 LAX118R CARDI MZB320R MZB	J110
RNM	LAXN27	LAXX DP SLI SLI148R V25 PACIF V208 JLI	J110
SAN (SANE)	LAXN28	LAXX DP SLI SLI148R V25 REDIN V165 SARGs	J110
OXR CMA NTD	LAXN29	VENTURA DP VTU	J60
SBA	LAXN30	VENTURA DP VTU VTU282R KWANG	J100

FROM: LAX West and East (M Class)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	LAXN31	LAX316R SILEX	M50
WHP VNY	LAXN32	LAX320R CANOG	M50
AVX	LAXN33	SEAL BEACH DP SLI V21 SXC	M50
FUL LGB SLI SNA TOA	LAXN34	SEAL BEACH DP SLI	M50
CCB EMT POC	LAXN35	SEAL BEACH DP SLI V8 POXKU V363 POM	M50
CNO REI L65 AJO RAL RIR RIV SBD ONT....	LAXN36	SEAL BEACH DP SLI V8 PDZ	M50

TOWER ENROUTE CONTROL

TO:	ROUTE ID	ROUTE	ALTITUDE
HMT	LAXN37	SEAL BEACH DP SLI V8 PDZ V186	
L67	LAXN38	WESIN	M50
F70	LAXN39	SEAL BEACH DP SLI V8 PDZ PDZ078R	
CRQ NFG NKX OKB (LAXW)	LAXN40	EDITS	M50
CRQ NFG NKX OKB (LAXE)	LAXN41	SEAL BEACH DP SLI V8 PDZ V186	
MYF NRS NZY SAN SDM SEE (LAXW)	LAXN42	NIKKL	M50
MYF NRS NZY SAN SDM SEE (LAXE)	LAXN43	SEAL BEACH DP SLI SLI171R ALBAS	
SAN (SANE) (LAXW)	LAXN44	V25 PACIF V208 OCN	M90
SAN (SANE) (LAXE)	LAXN45	SEAL BEACH DP SLI SLI148R V25 PACIF	
RNM(LAXW)	LAXN46	V208 OCN	M90
RNM(LAXE)	LAXN47	SEAL BEACH DP SLI SLI171R ALBAS	
OXR CMA NTD (LAXW)	LAXN48	V25 PACIF V208 LAX118R	
OXR CMA NTD (LAXE)	LAXN49	CARDI MZB320R MZB	M90
SBA (LAXW)	LAXN50	SEAL BEACH DP SLI SLI148R V25 PACIF	
SBA (LAXE)	LAXN51	V208 MZB320R MZB	M90
		SEAL BEACH DP SLI SLI171R ALBAS	
		V25 REDIN V165 SARGS	M90
		SEAL BEACH DP SLI SLI148R V25	
		REDIN V165 SARGS	M90
		SEAL BEACH DP SLI SLI171R ALBAS	
		V25 PACIF V208 JLI	M90
		SEAL BEACH DP SLI SLI148R V25 PACIF	
		V208 JLI	M90
		VENTURA DP VTU	M60
		CHATY DP VTU	M60
		VENTURA DP VTU VTU282R KWANG	M60
		CHATY DP KWANG	M60

FROM: LAX West and East (P and Q Class)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	LAXN52	LAX316R SILEX	PQ40
WHP VNY	LAXN53	LAX320R CANOG	PQ40
AVX	LAXN54	SEAL BEACH DP SLI V21 SXC	PQ40
FUL LGB SLI SNA TOA	LAXN55	SEAL BEACH DP SLI	PQ40
CCB EMT POC	LAXN56	SEAL BEACH DP SLI V8 POXKU V363	
CNO REI L65 AJO RAL RIR RIV SBD ONT ...	LAXN57	POM	PQ50
HMT	LAXN58	SEAL BEACH DP SLI V8 PDZ	PQ50
L67	LAXN59	SEAL BEACH DP SLI V8 PDZ V186	
F70	LAXN60	WESIN	PQ50
CRQ NFG NKX OKB	LAXN61	SEAL BEACH DP SLI V8 PDZ PDZ078R	
CRQ NFG NKX OKB (SNAN)	LAXN62	EDITS	PQ50
MYF NRS NZY SAN SDM SEE	LAXN63	SEAL BEACH DP SLI V8 PDZ V186	
MYF NRS NZY SAN SDM SEE (SNAN)	LAXN64	NIKKL	PQ50
RNM	LAXN65	SEAL BEACH DP SLI V64 V363 DANAH	
RNM (SNAN)	LAXN66	V23 OCN	PQ50
SAN (SANE)	LAXN67	SEAL BEACH DP SLI V23 OCN	PQ50
OXR CMA NTD	LAXN68	SEAL BEACH DP SLI V64 V363 DANAH	
SBA (LAXW)	LAXN69	V23 MZB	PQ50
SBA (LAXE)	LAXN70	SEAL BEACH DP SLI V23 MZB	PQ50
		SEAL BEACH DP SLI V64 V363 DANAH	
		V23 OCN JLI	PQ70
		SEAL BEACH DP SLI V23 OCN V208 JLI ..	PQ70
		SEAL BEACH DP SLI V64 V363 DANAH	
		V165 SARGS	PQ50
		VNY	PQ40
		VENTURA DP VTU VTU282R KWANG	PQ60
		CHATY DP KWANG	PQ60

FROM: HHR TOA (RWY29)

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	SCTN1	SMO SMO311R SILEX	JM50PQ40
WHP VNY	SCTN2	SMO SMO317R CANOG	JM50PQ40
AVX	SCTN3	SXC	JM50PQ40
FUL LGB SLI SNA TOA	SCTN4	LIMBO V64 SLI	JM50PQ40
FUL LGB SLI SNA TOA (LAXE)	SCTN5	SLI	JMPQ40
CCB EMT POC	SCTN6	LIMBO V64 SLI V8 POXKU V363 POM ...	J90MPQ50
CNO REI L65 AJO RAL RIR RIV SBD ONT	SCTN7	LIMBO V64 SLI V8 PDZ	J90MPQ50
HMT	SCTN8	LIMBO V64 SLI V8 PDZ V186 WESIN	J90MPQ50

TO:	ROUTE ID	ROUTE	ALTITUDE
L67	SCTN9	LIMBO V64 SLI V8 PDZ PDZ078R EDITS.	J90MPQ50
F70	SCTN10	LIMBO V64 SLI V8 PDZ V186 NIKKL	J90MPQ50
CRQ NFG NKX OKB	SCTN11	LIMBO V64 V363 DANAH V23 OCN	PQ50
CRQ NFG NKX OKB	SCTN12	LIMBO V64 SLI V23 OCN	J110M90
CRQ NFG NKX OKB (LAXE)	SCTN13	SLI SLI148R V25 PACIF V208 OCN	J110M90
CRQ NFG NKX OKB (SNAN)	SCTN14	LIMBO V64 SLI V23 OCN	PQ50
MYF NRS NZY SAN SDM SEE	SCTN15	LIMBO V64 V363 DANAH V23 MZB	PQ50
MYF NRS NZY SAN SDM SEE (LAXE)	SCTN16	SLI V64 V363 DANAH V23 MZB	PQ50
MYF NRS NZY SAN SDM SEE	SCTN17	LIMBO V64 WILMA V25 PACIF V208	
		LAX118R CARDI MZB320R MZB	J110M90
MYF NRS NZY SAN SDM SEE (LAXE)	SCTN18	SLI SLI148R V25 PACIF V208 MZB320R	
		MZB	J110M90
MYF NRS NZY SAN SDM SEE (SNAN)	SCTN19	LIMBO V64 SLI V23 MZB	PQ50
RNM	SCTN20	LIMBO V64 V363 DANAH V23 OCN	
		V208 JLI	PQ70
RNM (SNAN)	SCTN21	LIMBO V64 SLI V23 OCN V208 JLI	PQ70
RNM	SCTN22	LIMBO V64 SLI V23 OCN V208 JLI	J110M90
RNM (LAXE)	SCTN23	SLI SLI148R V25 PACIF V208 JLI	J110M90
SAN (SANE)	SCTN24	LIMBO V64 V363 DANAH V165 SARGS ..	PQ50
SAN (SANE)	SCTN25	LIMBO V64 WILMA V25 REDIN V165	
		SARGS	J110M90
OXR CMA NTD	SCTN26	SMO VNY	PQ40
OXR CMA NTD	SCTN27	LAX VTU	JM60
SBA	SCTN28	SMO V107 SADDE V299 VTU VTU282R	
		KWANG	J100MPQ60
SBA (LAXE)	SCTN29	LAX V23 V186 DEANO V27 KWANG	JM50PQ40
EDW L00 MHV PMD WJF IYK NID TSP			
VCV	SCTN30	LAX V165 LANGE V518 PMD	JMPQ70
FROM: SMO			
TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	SMON1	SMO SMO311R SILEX	JM50PQ40
WHP VNY	SMON2	SMO SMO317R CANOG	JM50PQ40
AVX	SMON3	SMO SMO125R SXC350R SXC	M50PQ40
FUL LGB SLI SNA TOA	SMON4	SMO SMO125R V64 SLI	M50PQ40
FUL LGB SLI SNA TOA	SMON5	SLI	J50
FUL LGB SLI SNA TOA (LAXE)	SMON6	SMO LAX V23 SLI	JMPQ40
CCB EMT POC	SMON7	SMO SMO125R V64 SLI V8 POXKU	
		V363 POM	MPQ50
CCB EMT POC	SMON8	SLI V8 POXKU V363 POM	J90
CNO REI L65 AJO RAL RIR RIV SBD ONT	SMON9	SMO SMO125R V64 SLI V8 PDZ	MPQ50
CNO REI L65 AJO RAL RIR RIV SBD ONT	SMON10	SLI V8 PDZ	J90
HMT	SMON11	SMO SMO125R V64 SLI V8 PDZ V186	
		WESIN	MPQ50
HMT	SMON12	SLI V8 PDZ V186 WESIN	J90
L67	SMON13	SMO SMO125R V64 SLI V8 PDZ	
		PDZ078R EDITS	MPQ50
L67	SMON14	SLI V8 PDZ PDZ078R EDITS	J90
F70	SMON15	SMO SMO125R V64 SLI V8 PDZ V186	
		NIKKL	MPQ50
F70	SMON16	SLI V8 PDZ V186 NIKKL	J90
CRQ NFG NKX OKB	SMON17	SMO SMO125R V64 V363 DANAH V23	
		OCN	PQ50
CRQ NFG NKX OKB	SMON18	SMO SMO125R V64 SLI V23 OCN	M90
CRQ NFG NKX OKB	SMON19	SXC V208 OCN	J110
CRQ NFG NKX OKB (LAXE)	SMON20	SMO LAX V23 SLI SLI148R V25 PACIF	
		V208 OCN	J110M90
CRQ NFG NKX OKB (SNAN)	SMON21	SMO SMO125R V64 SLI V23 OCN	PQ50
MYF NRS NZY SAN SDM SEE	SMON22	SMO SMO125R V64 V363 DANAH V23	
		MZB	PQ50
MYF NRS NZY SAN SDM SEE (LAXE)	SMON23	SMO LAX V23 SLI V64 V363 DANAH	
		V23 MZB	PQ50
MYF NRS NZY SAN SDM SEE	SMON24	SMO SMO125R V64 SLI V23 MZB	M90
MYF NRS NZY SAN SDM SEE	SMON25	SXC V208 LAX118R CARDI MZB320R	
		MZB	J110
MYF NRS NZY SAN SDM SEE (LAXE)	SMON26	SMO LAX V23 SLI SLI148R V25 PACIF	
		V208 LAX118R CARDI MZB320R MZB ...	J110M90
MYF NRS NZY SAN SDM SEE (SNAN)	SMON27	SMO SMO125R V64 SLI V23 MZB	PQ50

TO:	ROUTE ID	ROUTE	ALTITUDE
RNM.....	SMON28	SMO SMO125R V64 V363 DANAH V23	
		OCN V208 JLI	PQ70
RNM (SNAN).....	SMON29	SMO SMO125R V64 SLI V23 OCN V208	
		JLI.....	PQ70
RNM.....	SMON30	SMO SMO125R V64 SLI V23 OCN V208	
		JLI.....	M90
RNM.....	SMON31	SXC V208 JLI.....	J110
RNM (LAXE).....	SMON32	SMO LAX V23 SLI V23 OCN V208 JLI.....	J110M90
SAN (SANE).....	SMON33	SMO SMO125R V64 V363 DANAH V165	
		SARGS.....	PQ50
SAN (SANE).....	SMON34	SMO SMO125R V64 SLI V165 SARGS ...	M90
SAN (SANE).....	SMON35	SXC V208 PACIF V25 REDIN V165	
		SARGS.....	J110
OXR CMA NTD.....	SMON36	SMO VNY	PQ40
OXR CMA NTD.....	SMON37	VTU	JM60
SBA.....	SMON38	SMO V107 SADDE V299 VTU VTU282R	
		KWANG	J100MPQ60
SBA (LAXE).....	SMON39	LAX V23 V186 DEANO V27 KWANG	JM50PQ40

EMPIRE AREA

FROM: CCB CNO EMT HMT REI L65 AJO L67
RAL RIR RIV SBD F70 ONT POC

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR VNY WHP	ONTN1	PDZ V186 VNY.....	PQ60
BUR VNY WHP	ONTN2	PDZ V197 POM V264 V186 VNY	JM80
HHR	ONTN3	PDZ PDZ270R HHR RY25 LOC	JMPQ30
LAX	ONTN4	PDZ PDZ270R LAX RWY 24R LOC.....	JMPQ40
LAX (LAXE)	ONTN5	PDZ PDZ270R V394 AHEIM V8 TANDY ...	PQ40
LAX (LAXE)	ONTN6	PDZ V16 PRADO V363 DANAH V23 SLI	
		V8 TANDY	JM80
SMO.....	ONTN7	PDZ V186 DARTS.....	JMPQ60
AVX	ONTN8	PDZ V16 PRADO V363 DANAH SXC065R	
		SXC	JMPQ70
FUL LGB SLI TOA.....	ONTN9	PDZ PDZ270R V394 SLI.....	JMPQ40
SNA.....	ONTN10	PDZ PDZ270R V363 POXKU V8 SLI	JMPQ40
CRQ NFG NKX OKB	ONTN11	PDZ V186 ROBNN V458 OCN.....	JM110PQ70
MYF NRS NZY SAN SDM SEE.....	ONTN12	PDZ V186 HAILE V66 MZB	JM110PQ90
RNM.....	ONTN13	PDZ V186 ROBNN V208 JLI	JM110PQ70
CMA OXR NTD.....	ONTN14	PDZ V186 FIM	PQ60
CMA OXR NTD.....	ONTN15	PDZ V197 POM V264 V186 FIM	JM80
SBA.....	ONTN16	PDZ V186 DEANO V27 KWANG.....	PQ60
SBA.....	ONTN17	PDZ V197 POM V264 V186 DEANO V27	
		KWANG	JM80

PT MUGU AREA

FROM: OXR CMA

TO:	ROUTE ID	ROUTE	ALTITUDE
SBA.....	VTUN1	KWANG	JMPQ40
BUR	VTUN2	VTU054R TOAKS	JMPQ50
WHP VNY	VTUN3	CMA CMA072R GINNA	JMPQ50
PMD WJF EDW NID VCV IYK L00			
MHV TSP.....	VTUN4	FIM V386 PMD.....	JMPQ70
AVX	VTUN5	VTU V208 SXC	JM70PQ50
FUL LGB SLI TOA.....	VTUN6	VTU044R GINNA V326 VNY V186	
		ADAMM V394 SLI.....	PQ50
SNA.....	VTUN7	VTU044R GINNA V326 VNY V186 BAYJY	
		V363 POXKU V8 SLI	PQ50
HHR	VTUN8	VTU V299 SADDE V107 SMO SMO125R	
		POPPR V23 SLI	PQ50
FUL LGB SLI TOA SNA HHR.....	VTUN9	VTU V208 SXC SLI.....	JM70
HHR (LAXE)	VTUN10	VTU044R GINNA V326 VNY V186	
		ELMOO	JM70PQ50
LAX	VTUN11	VTU V299 SADDE V107 SMO.....	JMPQ50
LAX (LAXE)	VTUN12	VTU V25 EXERT	JMPQ50
SMO.....	VTUN13	VTU044R GINNA V326 VNY V186	
		DARTS	JMPQ50
CCB.....	VTUN14	VTU044R GINNA V326 VNY V186 V264	
		POM	JM70PQ50

TO:	ROUTE ID	ROUTE	ALTITUDE
CNO EMT REI L65 AJO ONT POC RAL RIR RIV SBD	VTUN15	VTU044R GINNA V326 VNY V186 PDZ ...	PQ50
CNO EMT REI L65 AJO ONT POC RAL RIR RIV SBD	VTUN16	VTU044R GINNA V326 VNY V186 V264 POM V197 PDZ	JM70
HMT	VTUN17	VTU044R GINNA V326 VNY V186 PDZ V186 WESIN	PQ50
HMT	VTUN18	VTU044R GINNA V326 VNY V186 V264 POM V197 PDZ V186 WESIN	JM70
L67	VTUN19	VTU044R GINNA V326 VNY V186 PDZ PDZ078R EDITS	PQ50
L67	VTUN20	VTU044R GINNA V326 VNY V186 V264 POM V197 PDZ PDZ078R EDITS	JM70
F70	VTUN21	VTU044R GINNA V326 VNY V186 PDZ V186 NIKKL	PQ50
F70	VTUN22	VTU044R GINNA V326 VNY V186 V264 POM V197 PDZ V186 NIKKL	JM70
CRQ NFG NKX OKB	VTUN23	VTU044R GINNA V326 VNY V186 ROBNN V458 OCN	PQ70
CRQ NFG NKX OKB (LAXE)	VTUN24	VTU044R GINNA V326 VNY V186 ROBNN V458 OCN	PQ70
CRQ NFG NKX OKB	VTUN25	VTU V208 SXC V208 OCN	J110M90
MYF NRS NZY SAN SDM SEE	VTUN26	VTU044R GINNA V326 VNY V186 HAILE V66 MZB	PQ90
MYF NRS NZY SAN SDM SEE (LAXE)	VTUN27	VTU044R GINNA V326 VNY V186 HAILE V66 MZB	PQ70
MYF NRS NZY SAN SDM SEE	VTUN28	VTU V208 SXC V208 LAX118R CARDI MZB320R MZB	J110M90
RNM	VTUN29	VTU044R GINNA V326 VNY V186 ROBNN V208 JLI	PQ70
RNM (LAXE)	VTUN30	VTU044R GINNA V326 VNY V186 ROBNN V208 JLI	PQ70
RNM	VTUN31	VTU V208 SXC V208 JLI	J110M90
SAN (SANE)	VTUN32	VTU044R GINNA V326 VNY V186 BAYJY V363 DANAH V165 SARGs	PQ50
SAN (SANE)	VTUN33	VTU V208 SXC V27 REDIN V165 SARGs	J110M90
SMX	VTUN34	V25 RZS RZS286R KOAKS	JMPQ80
IZA	VTUN35	V25 RZS RZS277R CALLI	JMPQ60
LPC	VTUN36	V27 GVO	JMPQ60

SAN DIEGO AREA

FROM: CRQ MYF NFG NKX NRS NZY SAN
SDM SEE RNM OKB L18 TIJ

TO:	ROUTE ID	ROUTE	ALTITUDE
AVX	SANN1	MZB V23 OCN V208 SXC	PQ60
AVX	SANN2	MZB293R V27 SXC	J100M80
FUL LGB SNA SLI TOA LAX	SANN3	OCN V23 SLI	PQ60
FUL LGB SNA SLI TOA LAX	SANN4	MZB293R SLI148R SLI	J100M80
LAX (LAXE)	SANN5	OCN V23 SLI V8 TANDY	PQ60
LAX (LAXE)	SANN6	MZB293R SLI148R VTU114R V8 TANDY	J100M80
HHR	SANN7	OCN V23 SLI SLI340R WELLZ HHR RY25 LOC	PQ60
HHR	SANN8	MZB293R SLI148R SLI SLI340R WELLZ HHR RY25 LOC	J100M80
SMO	SANN9	OCN V23 POPPR SMO125R SMO SMO059R ELMOO	PQ60
SMO	SANN10	MZB293R SLI148R SLI V459 DARTS	J100M80
SMO (LAXE)	SANN11	OCN V23 SLI SLI333R V186 DARTS	PQ60
SMO (LAXE)	SANN12	MZB293R SLI148R SLI SLI333R V186 DARTS	J100M80
BUR	SANN13	OCN V23 POPPR SMO125R SMO SMO311R SILEX	PQ60
BUR	SANN14	MZB293R SLI148R SLI V23 LAX LAX316R SILEX	J100M80
WHP VNY	SANN15	OCN V23 POPPR SMO125R SMO SMO317R CANOG	PQ60

TOWER ENROUTE CONTROL

TO:	ROUTE ID	ROUTE	ALTITUDE
WHP VNY	SANN16	MZB293R SLI148R SLI V23 LAX	
		LAX320R CANOG.....	J100M80
BUR VNY WHP (LAXE).....	SANN17	OCN V23 SLI SLI333R V186 VNY	PQ60
BUR VNY WHP (LAXE).....	SANN18	MZB293R SLI148R SLI SLI333R V186	
		VNY	J100M80
CNO AJO L65 REI ONT RAL RIR SBD RIV....	SANN19	OCN V23 DANAH V363 POXKU V8 PDZ...	PQ60
ONT SBD.....	SANN20	V186 TANNR HDF PETIS	JM100
CNO AJO RAL RIR	SANN21	V186 PDZ	JM100
L65 REI RIV.....	SANN22	V186 TANNR HDF.....	JM100
CCB EMT POC.....	SANN23	OCN V23 DANAH V363 POM	PQ60
CCB EMT POC.....	SANN24	MZB293R POM164R POM	J100M80
HMT	SANN25	OCN V23 DANAH V363 POXKU V8 PDZ	
		V186 WESIN	PQ60
HMT	SANN26	V186 WESIN	JM100
L67	SANN27	OCN V23 DANAH V363 POXKU V8 PDZ	
		PDZ078R EDITS.....	PQ60
L67	SANN28	V186 PDZ PDZ078R EDITS.....	JM100
F70	SANN29	OCN V23 DANAH V363 POXKU V8 PDZ	
		V186 NIKKL	PQ60
F70	SANN30	V186 NIKKL	JM100
OXR CMA NTD.....	SANN31	OCN V23 SLI SLI272R SMO125R SMO	
		VNY	PQ60
OXR CMA NTD.....	SANN32	MZB293R V27 SXC V208 VTU	J100M80
CMA OXR NTD (LAXE).....	SANN33	OCN V23 SLI SLI333R V186 FIM.....	PQ60
CMA OXR NTD (LAXE).....	SANN34	MZB293R SLI148R SLI SLI333R V186	
		FIM	J100M80
SBA.....	SANN35	OCN V23 LAX V299 VTU VTU282R	
		KWANG	PQ60
SBA.....	SANN36	MZB293R V27 SXC V208 VTU VTU282R	
		KWANG	J100M80
SBA (LAXE).....	SANN37	OCN V23 DANAH V363 BAYJY V186	
		DEANO V27 KWANG.....	PQ60

SANTA BARBARA AREA

FROM: SBA

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR	SBAN1	KWANG CMA CMA078R TOAKS	PQ50
WHP VNY	SBAN2	KWANG CMA CMA072R GINNA	PQ50
BUR VNY	SBAN3	HENER V186 FIM FERNANDO STAR.....	J110M90
AVX	SBAN4	KWANG VTU V208 SXC	JM70PQ50
FUL LGB SLI TOA	SBAN5	KWANG CMA VNY V186 ADAMM V394	
		SLI	PQ50
SNA.....	SBAN6	KWANG CMA VNY V186 BAYJY V363	
		POXKU V8 SLI.....	PQ50
HHR	SBAN7	KWANG VTU V299 SADDE V107 SMO	
		SMO125R POPPR V23 SLI.....	PQ50
FUL LGB SLI TOA SNA HHR.....	SBAN8	KWANG VTU V208 SXC SLI	J110M90
HHR (LAXE)	SBAN9	KWANG CMA VNY V186 ELM00	PQ50
LAX	SBAN10	KWANG VTU V299 SADDE V107 SMO	JM110PQ50
LAX (LAXE)	SBAN11	KWANG VTU V25 EXERT	JM70PQ50
SMO	SBAN12	KWANG CMA VNY V186 DARTS	PQ50
SMO	SBAN13	HENER FIM V186 DARTS	J110M90
CCB.....	SBAN14	KWANG CMA VNY V186 V264 POM.....	PQ50
CCB.....	SBAN15	HENER V186 FIM V186 V264 POM.....	JM70
CNO EMT REI L65 AJO POC ONT RAL RIR			
RIV SBD	SBAN16	KWANG CMA VNY V186 PDZ.....	PQ50
CNO EMT REI L65 AJO POC ONT RAL RIR			
RIV SBD	SBAN17	HENER FIM V186 V264 POM V197 PDZ .	J110M90
HMT	SBAN18	KWANG CMA VNY V186 PDZ V186	
		WESIN	PQ50
HMT	SBAN19	HENER V186 V264 POM V197 PDZ	
		V186 WESIN	J110M90
L67	SBAN20	KWANG CMA VNY V186 PDZ PDZ078R	
		EDITS	PQ50
L67	SBAN21	HENER FIM V186 V264 POM V197 PDZ	
		PDZ078R EDITS.....	J110M90

TO:	ROUTE ID	ROUTE	ALTITUDE
F70	SBAN22	KWANG CMA VNY V186 PDZ V186 NIKKL	PQ50
F70	SBAN23	HENER FIM V186 V264 POM V197 PDZ V186 NIKKL	J110M90
CRQ NFG NKX OKB	SBAN24	HENER V186 DARTS V597 OCN	PQ90
CRQ NFG NKX OKB (LAXE)	SBAN25	KWANG CMA VNY V186 ROBNN V458 OCN	PQ70
CRQ NFG NKX OKB	SBAN26	KWANG VTU V208 SXC V208 OCN	J110M90
MYF NRS NZY SAN SDM SEE	SBAN27	HENER V186 DARTS V597 MZB	PQ90
MYF NRS NZY SAN SDM SEE (LAXE)	SBAN28	KWANG CMA VNY V186 HAILE V66 MZB	PQ70
MYF NRS NZY SAN SDM SEE	SBAN29	KWANG VTU V208 SXC V208 LAX118R CARDI MZB320R MZB	J110M90
SAN (SANE)	SBAN30	KWANG CMA VNY V186 BAYJY V363 DANAH V165 SARGs	PQ50
SAN (SANE)	SBAN31	KWANG VTU V208 SXC V27 REDIN V165 SARGs	J110M90
RNM	SBAN32	HENER V186 DARTS V597 OCN V208 JLI	PQ90
RNM (LAXE)	SBAN33	KWANG CMA VNY V186 ROBNN V208 JLI	PQ70
RNM	SBAN34	KWANG VTU V208 JLI	J110M90
OXR CMA NTD	SBAN35	KWANG CMA	JMPQ30
PSP UDD TRM	SBAN36	FIM V186 NIKKL V64 TRM PSP	PQ110

SANTA BARBARA AREA

FROM: SBP SMX VBG LPC IZA

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR VNY WHP	SBAN37	RZS V186 FIM	PQ70
BUR VNY	SBAN38	RZS V386 FIM FERNANDO STAR	J110M90
AVX	SBAN39	RZS VTU V208 SXC	JMPQ70
FUL LGB SLI TOA	SBAN40	RZS V186 ADAMM V394 SLI	PQ70
SNA	SBAN41	RZS V186 BAYJY V363 POXKU V8 SLI	PQ70
HHR	SBAN42	RZS VTU V299 SADDE V107 SMO SMO125R POPPR V23 SLI	PQ70
FUL LGB SLI TOA SNA HHR	SBAN43	RZS VTU V208 SXC SLI	J110M90
HHR (LAXE)	SBAN44	RZS V186 ELMOO	PQ70
LAX	SBAN45	RZS VTU SADDE STAR	JM110PQ70
LAX (LAXE)	SBAN46	RZS VTU V25 EXERT	JM70PQ50
SMO	SBAN47	RZS V186 DARTS	PQ70
SMO	SBAN48	RZS V386 FIM V186 DARTS	J110M90
CCB	SBAN49	RZS V186 V264 POM	PQ70
CCB	SBAN50	RZS V386 FIM V186 V264 POM	J110M90
CNO EMT REI L65 AJO POC ONT RAL RIR RIV SBD	SBAN51	RZS V186 PDZ	PQ70
CNO EMT REI L65 AJO POC ONT RAL RIR RIV SBD	SBAN52	RZS V386 FIM V186 V264 POM V197 PDZ	J110M90
HMT	SBAN53	RZS V186 PDZ V186 WESIN	PQ70
HMT	SBAN54	RZS V386 FIM V186 V264 POM V197 PDZ V186 WESIN	J110M90
L67	SBAN55	RZS V186 PDZ PDZ078R EDITS	PQ70
L67	SBAN56	RZS V386 FIM V186 V264 POM V197 PDZ PDZ078R EDITS	J110M90
F70	SBAN57	RZS V186 PDZ V186 NIKKL	PQ70
F70	SBAN58	RZS V386 FIM V186 V264 POM V197 PDZ V186 NIKKL	J110M90
CRQ NFG NKX OKB	SBAN59	RZS V597 OCN	PQ90
CRQ NFG NKX OKB (LAXE)	SBAN60	RZS V186 ROBNN V458 OCN	PQ70
CRQ NFG NKX OKB	SBAN61	RZS VTU V208 SXC V208 OCN	J110M90
MYF NRS NZY SAN SDM SEE	SBAN62	RZS V597 MZB	PQ90
MYF NRS NZY SAN SDM SEE (LAXE)	SBAN63	RZS V186 HAILE V66 MZB	PQ70
MYF NRS NZY SAN SDM SEE	SBAN64	RZS VTU V208 SXC V208 LAX118R CARDI MZB320R MZB	J110M90
SAN (SANE)	SBAN65	RZS V186 VNY V186 BAYJY V363 DANAH V165 SARGs	PQ70
SAN (SANE)	SBAN66	RZS VTU V208 SXC V27 REDIN V165 SARGs	J110M90
RNM	SBAN67	RZS V597 OCN V208 JLI	PQ90

TOWER ENROUTE CONTROL

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TO:	ROUTE ID	ROUTE	ALTITUDE
RNM (LAXE)	SBAN68	RZS V186 ROBNN V208 JLI	PQ70
RNM	SBAN69	RZS VTU V208 JLI	J110M90
OXR CMA NTD	SBAN70	RZS VTU	JMPQ70
PSP UDD TRM	SBAN71	RZS V386 FIM V186 NIKKL V64 TRM	
		PSP	PQ110

PALM SPRINGS AREA

FROM: PSP UDD TRM

TO:	ROUTE ID	ROUTE	ALTITUDE
BUR VNY WHP	PSPN1	V388 PDZ V186 VNY	PQ100
BUR VNY WHP	PSPN2	V388 PDZ V197 POM V264 V186 VNY ...	JM120
AJO CNO RAL RIR ONT RIV SBD	PSPN3	V388 PDZ	JM120PQ100
HMT	PSPN4	V388 PDZ V186 WESIN	JM120PQ100
EMT POC CCB	PSPN5	V388 PDZ PDZ270R V363 POM	JM120PQ100
L67	PSPN6	V388 PDZ PDZ078R EDITS	JM120PQ100
F70	PSPN7	V388 PDZ V186 NIKKL	JM120PQ100
FUL LGB SLI TOA SNA	PSPN8	V388 ACINS V283 SLI	JM120PQ100
HHR	PSPN9	V388 PDZ PDZ270R HHR RY25 LOC	JM120PQ100
LAX	PSPN10A	V388 PDZ V16 LAHAB	M120PQ100
LAX	PSPN10B	V388 LENHO SEAVU SEAVU ARRIVAL	J120
LAX (LAXE)	PSPN11	V388 PDZ PDZ270R V394 SLI V8	
		TANDY	PQ100
LAX (LAXE)	PSPN12	V388 ACINS V283 SLI V8 TANDY	JM120
SMO	PSPN13	V388 PDZ V186 DARTS	JM120PQ100
CMA OXR NTD	PSPN14	V388 PDZ V186 FIM	PQ100
CMA OXR NTD	PSPN15	V388 PDZ V197 POM V264 V186 FIM	JM120
SBA	PSPN16	V388 PDZ V186 DEANO V27 KWANG	PQ100
SBA	PSPN17	V388 PDZ V197 POM V264 V186	
		DEANO V27 KWANG	M120

PALMDALE AREA

FROM: EDW LOO MHV PMD WJF

TO:	ROUTE ID	ROUTE	ALTITUDE
HHR	EDWN1	PMD V518 KIMMO V459 DARTS V186	
		ADAMM V394 HHR RY25 LOC	JMPQ80
FUL LGB SLI SNA TOA	EDWN2	PMD V201 BERRI V459 SLI	JMPQ90
FUL LGB SLI SNA TOA (LAXE)	EDWN3	PMD V386 V23 LAX V25 ALBAS SLI	MPQ80

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

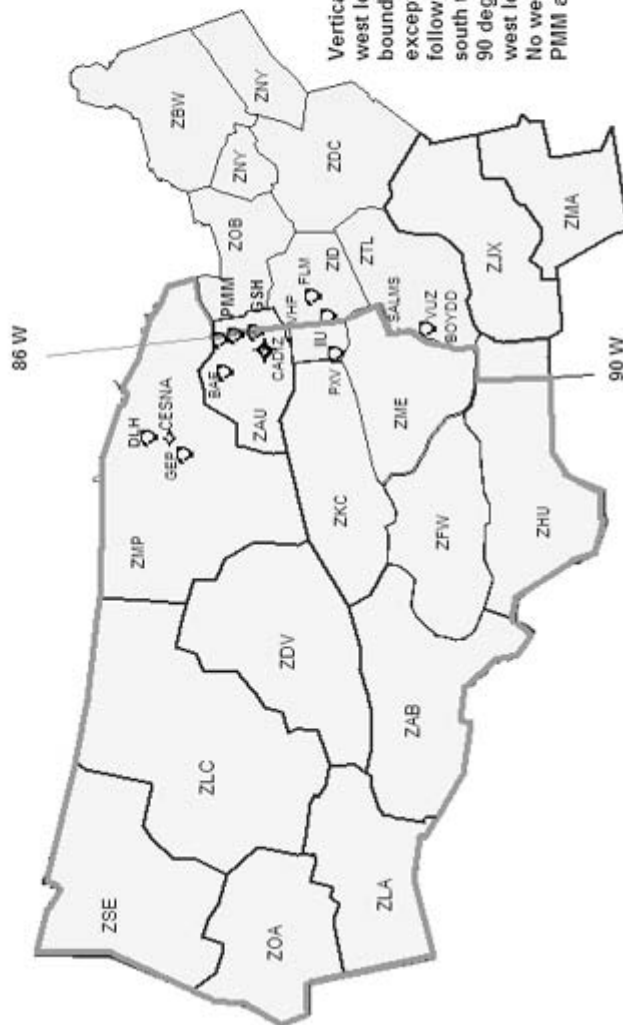
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZID boundary, except between PMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMM and GSH.

**HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports
Located Outside HAR Phase I Expansion Airspace**

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

**HAR Special High Altitude Pitch Points for Airports Located Within (below)
HAR Phase I Expansion Airspace**

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDE E BDF BRADFORD-STAR or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

Houston Hobby	LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTs or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area	GALLI, INSLO, HAROL JSICA
Oakland	GALLI, INSLO, HAROL JSICA
San Jose	GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)-STAR or PATYN HONIE (RNAV)-STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	<p>OATHE DANDD-STAR or HGO QUAIL-STAR or LOPEC-STAR or ALS LARKS-STAR or HBU POWDR-STAR or EKR TOMSN-STAR or CHE TOMSN-STAR or BFF LANDR-STAR or LBF SAYGE-STAR or HCT SAYGE-STAR or RSK LARKS-STAR or LAA QUAIL-STAR or GCK J154 RYLIE DANDD-STAR or OCS J154 ALPOE RAMMS-STAR or YANKI J114 SNY LANDR-STAR or Aircraft filed BIL or east, MBW RAMMS-STAR</p>
Ft Lauderdale or Ft Lauderdale Executive	<p>CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR</p>
Houston Bush	<p>CRP, CVE, LLO, LUKIY, SAT or Aircraft south and east of LLA, JEPEG or MISLE Q40 AEX or Aircraft north and east of SJI, SJI or Aircraft east of PXV, PXV Q31 DHART SWB or Aircraft north and west of PXV, PROWL Q33 DHART SWB</p>
Houston Hobby	<p>CRP, ELLVR, SAT, SWB or Aircraft south and east of GIRLY, KCEEE or Aircraft north and east of SJI, SJI or BESOM Q38 ROKIT ROKIT-STAR or Aircraft east of PXV, PXV Q29 HARES SWB or Aircraft north and west of PXV, PROWL Q33 DHART SWB</p>
Jacksonville	<p>GADAY ZOOSS TAY Aircraft through ZHU airspace remain south of ZME and ZTL airspace or ZOOSS TAY</p>

John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA, PGS, LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVFN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVFN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR

Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)-STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL-STAR or LARNO BONVL-STAR or MOXEE MOXEE-STAR
St. Louis Terminal Area	SGF TRAKE-STAR or BUM TRAKE-STAR or ANX TRAKE-STAR or LMN IRK RIVRS-STAR or RBS VANDALIA-STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE-STAR or EKR MTU SPANE-STAR or BCE DTA-TCH or MLF DTA-TCH or BVL BONNEVILLE-STAR or BYI BEARR-STAR or PIH BEARR-STAR or DBS BRIGHAM CITY-STAR or JAC BRIGHAM CITY-STAR or BPI BRIGHAM CITY-STAR or OCS BRIGHAM CITY-STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north-south line at LFK, BLEWE or East of a north-south line at LFK, IDU

San Francisco	FMG GOLDEN GATE--STAR or MVA MODESTO--STAR or ENI GOLDEN GATE--STAR or OAL MODESTO--STAR or South of a line ILC to DVC, REANA KATTS OAL MODESTO--STAR
San Jose	FMG HYP EL NIDO--STAR or OAL HYP EL NIDO--STAR or ENI GOLDEN GATE--STAR or South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO--STAR
Seattle Terminal Area	Aircraft from northeast, southeast, south, TEMPL GLASR--STAR or SUNED CHINS--STAR or BTG OLMYPIA--STAR
Southwest Florida Airports RSW and FMY	CEW DEFUN Q104 SWABE JOSFF--STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW HEVVN Q104 SWABE JOSFF--STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS--STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW DARBS--STAR
Tucson	DRK PXR or MOHAK GBN

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

BOSTON TERMINAL AREA CHART

VPCOH	Cohasset	N42°13.58' /W070°48.94'
VPCUT	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRA	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPLPT	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

CHICAGO SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCOH	_____	N31°49.35' / W081°51.07'

DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN	_____	N39°44.28' / W104°26.00'
VPFTG	_____	N39°44.35' / W104°32.75'
VPNIC	NORTH INTERCHANGE	N39°58.90' / W104°59.27'

HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25' / W095°09.24'
VPDTN	_____	N29°46.59' / W095°22.01'
VPGLA	_____	N30°08.32' / W095°06.62'
VPGLB	_____	N30°07.80' / W094°55.70'
VPKTY	_____	N29°47.05' / W095°44.92'
VPPLN	_____	N30°08.80' / W095°50.42'
VPRSN	_____	N29°30.00' / W095°41.00'
VPSND	_____	N29°23.13' / W095°28.86'
VPSNT	_____	N29°49.29' / W094°53.94'
VPTNE	_____	N29°47.48' / W095°03.34'
VPTNW	_____	N29°47.06' / W095°33.81'
VPTRK	_____	N29°24.06' / W095°10.44'

JACKSONVILLE SECTIONAL CHART

VPAFI	_____	N31°49.35' / W081°51.07'
VPAFY	_____	N30°07.00' / W081°21.33'
VPBEC	_____	N29°46.25' / W081°15.10'
VPCJA	_____	N29°30.00' / W081°06.00'
VPCKY	_____	N28°46.50' / W082°34.00'
VPCNY	_____	N28°30.00' / W080°45.00'
VPDAD	DADE CITY	N28°22.57' / W082°11.25'
VPDAR	_____	N31°22.38' / W081°24.13'
VPDFI	_____	N29°00.17' / W081°20.85'
VPDUT	_____	N27°37.70' / W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67' / W082°49.83'
VPEGV	_____	N29°39.97' / W081°24.87'
VPPFU	_____	N28°57.08' / W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50' / W082°44.67'
VPHAA	_____	N30°04.02' / W083°40.02'
VPHUC	_____	N28°19.87' / W082°43.77'
VPIWA	MIDWAY	N31°48.33' / W081°25.85'
VPJMY	_____	N29°26.92' / W081°18.27'
VPKER	LAKE PARKER	N28°04.00' / W081°56.00'
VPLEV	_____	N28°48.00' / W080°52.00'
VPLJA	_____	N29°00.00' / W080°51.00'
VPMAI	_____	N30°50.02' / W084°56.63'
VPTLH	_____	N30°32.70' / W083°52.22'
VPXZY	_____	N29°35.00' / W083°10.00'
VPYIW	_____	N30°42.28' / W081°27.25'
VPZIE	_____	N32°01.62' / W080°53.42'

KANSAS CITY SECTIONAL CHART

VPAGO	_____	N37°50.33' / W090°29.03'
VPBEK	_____	N37°15.07' / W092°30.67'
VPDEN	_____	N37°46.75' / W092°19.20'
VPENE	_____	N37°44.75' / W091°55.78'
VPESS	_____	N36°59.48' / W091°00.88'
VPFME	_____	N37°41.00' / W092°38.33'
VPGXY	_____	N37°15.50' / W091°40.17'
VPMBE	_____	N37°11.08' / W090°27.92'
VPMKE	_____	N37°24.47' / W092°40.00'
VPROV	_____	N38°01.72' / W091°12.81'
VPUTT	_____	N37°52.05' / W092°01.20'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC	_____	N37°18.03'/W092°18.63'
VPWRO	_____	N37°39.12'/W091°45.68'
VPXIZ	_____	N37°26.60'/W092°05.42'

KANSAS CITY TERMINAL AREA CHART

VPATN	ATCHISON	N39°33.62'/W095°07.65'
VPBGS	BLUE SPRINGS	N39°01.82'/W094°16.32'
VPBSP	BONNER SPRINGS	N39°03.78'/W094°53.10'
VPCHB	CHOUTEAU BRIDGE	N39°08.77'/W094°32.03'
VPDSO	DE SOTO	N38°58.68'/W094°58.48'
VPESG	EXCELSIOR SPRINGS	N39°20.68'/W094°13.77'
VPGTB	GARRETSBURG	N39°40.92'/W094°41.45'
VPLAT	LATHROP WATER TANK	N39°32.87'/W094°20.00'
VPLEN	LENEXA	N38°57.77'/W094°43.68'
VPLVL	LONGVIEW LAKE	N38°54.63'/W094°28.28'
VPMCL	MC LOUTH	N39°11.65'/W095°12.50'
VPNHA	NASHUA	N39°17.83'/W094°34.80'
VPSCX	SPORTS COMPLEX	N39°03.00'/W094°29.02'
VPSKR	SUGAR CREEK REFINERY	N39°07.00'/W094°27.02'
VPSPK	SWOPE PARK	N39°00.47'/W094°31.93'
VPTSK	TWIN STACKS	N39°09.05'/W094°38.22'
VPWOF	WORLDS OF FUN	N39°10.42'/W094°29.12'

KLAMATH FALLS SECTION CHART

VPORO	_____	N43°57.38'/W123°02.22'
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LOS ANGELES HELICOPTER CHART

VPANA	_____	N33°44.43'/W117°50.03'
VPART	MAGNOLIA	N33°51.45'/W117°58.92'
VPAUT	HWY 91 & 55	N33°50.63'/W117°49.57'
VPBOB	_____	N33°59.60'/W117°21.45'
VP CAR	_____	N33°49.90'/W118°17.23'
VP CNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VP COR	_____	N33°52.90'/W117°32.95'
VP CRX	_____	N34°01.40'/W117°44.88'
VP CSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VP DOW	_____	N33°56.47'/W118°05.80'
VP ELA	_____	N34°00.98'/W118°10.35'
VP ETY	_____	N33°38.70'/W117°44.12'
VP FCB	_____	N34°02.03'/W118°01.63'
VP FPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VP GOL	_____	N34°09.33'/W118°17.37'
VP IMP	_____	N33°55.85'/W118°16.85'
VP KAT	_____	N33°48.23'/W117°54.22'
VP KEL	_____	N34°03.92'/W117°48.40'
VP LAC	_____	N34°03.75'/W118°14.93'
VP LLU	_____	N34°03.85'/W117°17.82'
VP LQM	QUEEN MARY	N33°45.17'/W118°11.37'
VP LRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VP LVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VP MDR	_____	N33°59.27'/W118°23.97'
VP NEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VP NUY	_____	N34°09.63'/W118°28.18'
VP PCH	_____	N33°28.07'/W117°40.32'
VP PKC	_____	N34°03.32'/W118°12.83'
VP POR	_____	N34°00.10'/W117°50.12'
VP RRT	_____	N33°59.37'/W118°16.83'
VP SEP	_____	N34°05.80'/W118°28.63'
VP SFR	_____	N34°17.45'/W118°28.07'
VP STC	SATICOY BRIDGE	N34°16.62'/W119°08.34'
VP STK	_____	N34°13.97'/W118°24.60'

LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPGTY	GETTY CENTER	N34°04.84'/W118°28.66'
VPLBP	BANNING PASS	N33°56.05'/W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87'/W117°34.33'
VPLCP	CAJON PASS	N34°18.07'/W117°27.68'
VPLDL	DISNEYLAND	N33°48.72'/W117°55.13'
VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42'/W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10'/W118°18.02'
VPLHF	110/405 FWYS	N33°51.42'/W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75'/W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20'/W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40'/W117°56.77'
VPLPD	PRADO DAM	N33°53.40'/W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17'/W118°11.37'
VPLRB	ROSE BOWL	N34°09.67'/W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03'/W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72'/W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97'/W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07'/W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00'/W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40'/W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VPLWT	WATER TANK	N34°10.82'/W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV	_____	N27°57.00'/W080°46.75'
VPCLC	_____	N26°27.07'/W082°00.88'
VPCTE	_____	N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDUT	_____	N27°37.70'/W082°09.10'
VPDZE	_____	N27°19.00'/W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH	_____	N26°25.40'/W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHRO	_____	N27°05.97'/W082°12.20'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIBR	_____	N27°12.47'/W081°40.22'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPKOE	_____	N24°40.08'/W081°20.55'
VPLYV	_____	N24°49.07'/W080°49.17'
VPMB0	GULFSTREAM PARK	N25°58.57'/W080°08.17'
VPOBA	PUMPING STATION	N26°28.30'/W080°26.75'
VPRBI	_____	N25°50.67'/W080°55.18'
VPRNL	RANGER STATION	N25°22.92'/W080°36.58'
VPWMO	_____	N27°03.00'/W080°35.00'

MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00'
VPMBO	GULFSTREAM PARK	N25°58.57' /W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75'
VPRBI	_____	N25°50.67' /W080°55.18'
VPRNL	RANGER STATION	N25°22.92' /W080°36.58'

NEW ORLEANS SECTIONAL CHART

VPGPT	_____	N30°25.95' /W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' /W085°59.25'
VPMAI	_____	N30°50.02' /W084°56.63'
VPMOB	_____	N30°23.00' /W088°31.72'
VPRAM	_____	N30°18.95' /W089°35.88'
VPRER	_____	N30°13.87' /W085°20.67'
VPRIV	_____	N30°54.85' /W087°57.82'
VPSAW	_____	N30°49.65' /W089°07.42'
VPTHR	_____	N30°19.93' /W087°08.50'

NEW YORK HELICOPTER CHART

VPJAY	_____	N40°59.00' /W073°07.00'
VPLYD	_____	N40°57.37' /W073°29.59'
VPROK	_____	N40°52.70' /W073°44.24'

PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' /W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' /W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' /W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' /W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' /W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' /W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' /W111°50.37'
VPCNL	CANAL	N33°33.23' /W111°46.89°
VPRFB	FIREBIRD LAKE	N33°16.35' /W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' /W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' /W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' /W112°13.00'
VPMAR	MARICOPA	N33°03.42' /W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' /W111°49.58'
VPNRV	NEW RIVER	N33°55.08' /W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' /W111°55.83'
VPPIR	PIR	N33°22.52' /W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' /W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' /W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' /W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' /W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' /W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' /W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' /W111°59.67'
VPZZZ	_____	N33°20.18' /W111°26.53'

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' /W090°22.42'
VPBPE	_____	N38°23.80' /W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' /W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' /W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' /W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' /W090°11.55'
VPEDZ	WATER TANKS	N38°45.30' /W090°34.87'
VPEGR	GAS TANKS	N38°35.80' /W090°19.32'
VPEOX	ST PETERS	N38°47.17' /W090°39.25'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00'/W090°43.00'
VPFFY	_____	N38°55.37'/W090°17.30'
VPGPF	_____	N38°35.60'/W090°26.92'
VPGVI	_____	N38°32.30'/W090°27.80'
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIBO	WATERLOO	N38°20.00'/W090°09.00'
VPJMU	HORSESHOE LAKE	N38°41.00'/W090°05.00'
VPKNY	PACIFIC	N38°29.00'/W090°44.00'
VPLES	ST CHARLES	N38°47.00'/W090°30.00'
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50'/W090°11.00'
VPNSY	WOOD RIVER REFINERIES	N38°50.00'/W090°05.00'
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00'/W090°20.00'
VPROMO	FOREST PARK	N38°38.00'/W090°17.00'
VPWKO	COLUMBIA	N38°27.00'/W090°12.00'
VPXXI	MILLSTADT	N38°27.50'/W090°05.68'
VPYID	MOSENTHEIN ISLAND	N38°43.00'/W090°12.25'

SALT LAKE CITY HELICOPTER CHART

VPAIR	SALT AIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFFK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALT AIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30'/W111°53.43'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFFK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPPVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73'/W111°50.28'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00'/W111°48.95'

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPOCN	_____	N33°14.15'/W117°26.63'
VPSBC	BARONA CASINO	N32°56.25'/W116°52.60'
VPSBL	_____	N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF	_____	N32°48.55'/W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72'/W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77'/W117°15.42'
VPSCR	_____	N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25'/W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53'/W116°53.28'
VPSMB	_____	N32°45.57'/W117°12.22'
VPSMP	_____	N33°22.70'/W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40'/W117°15.10'
VPSMV	_____	N32°45.75'/W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52'/W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82'/W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73'/W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90'/W117°14.55'
VPSPP	POWER PLANT	N33°08.25'/W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58'/W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78'/W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53'/W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17'/W117°14.68'
VPSVA	_____	N33°11.48'/W117°16.38'

SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75'/W119°53.20'
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SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35'/W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45'/W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50'/W122°07.45'
VPALC	CALAVERAS RESERVOIR	N37°28.16'/W121°48.93'
VPCBT	LAKE CHABOT	N37°43.68'/W122°06.94'
VPCOY	COYOTE HILLS	N37°32.50'/W122°05.06'
VPCQZ	CARQUINEZ BRIDGE	N38°03.66'/W122°13.52'
VPCRL	_____	N37°11.00'/W121°41.06'
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56'/W122°21.10'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPDUB	DUBLIN	N37°42.06'/W121°55.36'
VPEMB	EMBASSY SUITES	N37°26.05'/W121°53.83'
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52'/W122°03.52'
VPDAM	DEL VALLE DAM	N37°36.91'/W121°44.78'
VPDLR	_____	N37°07.00'/W121°47.06'
VPDUB	DUBLIN	N37°42.06'/W121°55.36'
VPEMB	EMBASSY SUITES	N37°26.05'/W121°53.83'
VPGGF	GOLDEN GATE FIELDS	N37°53.07'/W122°18.71'
VPGIL	GILROY	N37°01.37'/W121°33.99'
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KGO	N37°31.58'/W122°06.10'
VPLEX	LEXINGTON RESERVOIR	N37°11.66'/W121°59.18'
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28'/W122°11.81'
VPMOR	MORMON TEMPLE	N37°48.46'/W122°11.95'
VPNUM	NUMMI PLANT	N37°29.56'/W121°56.58'
VPPAC	_____	N37°38.00'/W122°32.07'
VPPRU	PRUNEYARD	N37°17.33'/W121°56.01'
VPSAR	SARATOGA	N37°15.26'/W122°02.33'
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75'/W122°14.35'
VPSTB	STINSON BEACH	N37°54.45'/W122°40.41'
VPSUN	SUNOL GOLF COURSE	N37°34.85'/W121°53.23'
VPUTC	U.T.C.	N37°13.93'/W121°41.35'
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM	_____	N37°30.28'/W122°10.00'
VPWFR	CEMENT PLANT	N37°30.88'/W122°12.26'

TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV	_____	N27°57.00'/W080°46.75'
VPCNY	_____	N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDFI	_____	N29°00.17'/W081°20.85'
VPDUT	_____	N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPFFU	_____	N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHUC	_____	N28°19.87'/W082°43.77'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV	_____	N28°48.00'/W080°52.00'
VPLJA	_____	N29°00.00'/W080°51.00'

WASHINGTON SECTIONAL CHART

VPAGE	_____	N38°07.82'/W076°48.75'
VPAXI	_____	N38°34.57'/W076°20.38'
VPBRA	_____	N36°13.75'/W076°08.08'
VPGCE	_____	N36°03.90'/W076°36.42'
VPWZO	_____	N36°00.87'/W075°40.07'

VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ARIZONA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd.	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Bard	116.8/BZA	A/2000	242	5.9	Over interstate 8 freeway crossing canal.
Drake (Ernest A. Love Fld).....	114.1/DRK	A/7000	124	5.0	Over apch end Rwy 30.
Flagstaff (Pulliam).....	113.85/FLG	A/8000	033	6.5	Over red and white square twr.
Fort Huachuca (Sierra Vista Muni/Libby AAF).....	113.6/FHU	G	80		Runup area Twy G at 26 end.
Kingman (Kingman).....	108.8/IGM	G	220	1.0	Center of runup area apch end Rwy 03.
Phoenix-Mesa Gateway	113.3/IWA	G	299	1.4	On Twy G between Rwy 12R and Rwy 12C.
Tucson (Tucson Intl)	116.0/TUS	G	318	0.7	On runup pad northeast of Twy A17.
Willie (Phoenix-Mesa Gateway).....	113.3/IWA	G	124	0.6	On Twy P runup area Rwy 30C.
Winslow (Winslow-Lindbergh Rgnl)	112.6/INW	A/6000	106	5.0	Over apch end Rwy 29.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Phoenix Sky Harbor Intl.	109.0	G	
Prescott (Ernest A. Love Fld)	110.0	G	

CALIFORNIA

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd.	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Arcata (Arcata)	110.2/ACV	G	148	0.7	On runup area apch end Rwy 32.
Chico (Chico Muni).....	109.8/CIC	G	302	1.1	On north runup area.
Clovis (Fresno Yosemite Intl).....	112.9/CZQ	A/1400	130	7.2	Over apch end Rwy 11L.
Compton Woodley	113.6/LAX	A/1000	091	10.0	Over apch end Rwy 25L.
Concord (Buchanan Field).....	117.0/CCR	A/1200	172		Over apch end Rwy 19L.
Daggett (Barstow-Daggett)	113.2/DAG	A/2800	223	11.7	Over apch end Rwy 22.
El Nido (Merced Muni/Macready Fld).....	114.2/HYP	A/1200	290		Over apch end Rwy 30.
Fortuna (Murray Fld).....	114.0/FOT	A/1500	015	9.6	Over Rwy apch end 11.
Fortuna (Rohnerville).....	114.0/FOT	A/1400	130	8.2	Over apch end Rwy 11.
Guadalupe (Santa Maria Pub/Capt G Allan Hancock Fld)	111.0/GLJ	A/1200	118		Over apch end Rwy 30.
Imperial (Imperial County).....	115.9/IPL	A/1500	313	5.7	Over apch end Rwy 32.
Lake Hughes (General Wm J. Fox Airfield).....	108.4/LHS	G	065	18.1	On the main ramp at east terminal gas pit.

VOR RECEIVER CHECK

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Maxwell (Willows–Glenn County)	110.0/MXW	A/1200	342	11.5	Over apch end Rwy 34.
Modesto (Modesto City–Co–Harry Sham Fld)	114.6/MOD	G	093	0.6	On ramp area next to intersection of Taxiways A and A1.
Oakland (Metropolitan Oakland Intl)	116.8/OAK	G	081	0.9	On runup pad end of Rwys 27R and 27L.
Palmdale (General Wm. J. Fox Airfield)	114.5/PMD	A/5000	296	10.1	Over center taxiway/runway intersection.
Paradise (Ontario Intl)	112.2/PDZ	G	320	8.9	Intersection of Twy Q, Twy P and Rwy 26L.
Paso Robles (Paso Robles Muni).....	114.3/PRB	G	247	0.4	Transient parking ramp front of terminal.
Placerville (Placerville)	115.5/HNW	A/5200	076	8.7	Dam on west end of lake.
Pomona (Cable).....	110.4/POM	A/3500	053	5.1	Over apch end of Rwy 06.
Red Bluff	115.7/RBL	A/1500	358	5.8	Over the center of Red Bluff Fairgrounds Race Track.
Redding (Redding Muni).....	108.4/RDD	G	310	0.5	On runup area apch end Rwy 12.
Sacramento (McClellan Airfield)	109.2/MCC	G	358	.9	On Taxiway at end of Rwy 16.
	109.2/MCC	G	015	0.4	On Taxiway B.
Sacramento (Sacramento Executive).....	115.2/SAC	A/1000	016	4.4	Over apch end Rwy 02.
Salinas (Salinas Muni).....	117.3/SNS	G	247	0.4	Intersection of twys C and D.
San Francisco (San Francisco Intl).....	115.8/SFO	A/1800	153	6.7	Over Crystal Springs causway 5 NM west of San Carlos arpt.
San Jose (Norman Y. Mineta San Jose Intl) .	114.1/SJC	G	123	1.7	On Twy B and runup area Rwy 30L.
San Jose (Norman Y. Mineta San Jose Intl) .	114.1/SJC	G	132	0.6	Twy V abeam Twy J.
Santa Barbara	114.9/RZS	A/2000	279	11	Over Lake Cachuma Dam spillway.
Santa Barbara (Santa Barbara Muni).....	114.9/RZS	G	197	5.8	At intersection of Taxiway D and H.
Santa Rosa (Charles M. Schulz–Sonoma Co)	113.0/STS	A/2000	323	5.9	River bridge on Highway 101.
	113.0/STS	G	121		.5 NM runup Rwy 32.
	113.0/STS	G	344		.4 NM runup Rwy 14.
Scaggs Island (Napa County).....	112.1/SGD	A/1000	047	5.4	Over rotating beacon.
Thermal (Jacqueline Cochran Rgnl)	116.2/TRM	G	329	0.3	On centerline of twy 375' in front of hangar.
Van Nuys	113.1/VNY	G	169	0.5	At intersection of Twy D and Twy A.
	113.1/VNY	G	161	1.6	On West runup area rwy 34L.
	113.1/VNY	G	142	0.4	Runup area Rwy 16L.
Ventura (Camarillo)	108.2/VTU	G	330	6.1	Runup Rwy 26.
	108.2/VTU	G	320	6.5	Runup Rwy 08.
Ventura (Oxnard)	108.2/VTU	G	289	9.0	On parallel Twy W of Rwy 25 runup area.
Visalia (Visalia Muni)	109.4/VIS	A/1300	107	5.0	Over apch end rwy 12.
Woodside (Hayward Executive).....	113.9/OSI	G	009		Runup area Rwy 28L.
Woodside (San Carlos)	113.9/OSI	A/2000	355	7.2	Over Rwy 30 numbers.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Bakersfield	111.2	G	
Hawthorne (Jack Northrop Fld/Hawthorne Muni)	113.9	G	Unusable on south taxiway.
Long Beach (Daugherty Field)	113.9	G	Unusable all areas except runup Rwy 25L at Taxiway J, runup Rwy 25R.
Los Angeles Intl	113.9	G	Unusable all areas except intersection of Twys A at G runup Rwy 25L at Twy F and intersection of Twy C at N.
Sacramento Executive	111.4	G	
Sacramento Intl	111.4	G	
San Diego (EL Cajon) (Gillespie Fld)	110.0	G	
San Diego (Mount Soledad) (San Diego Intl)	109.0	G	Unusable all areas except runup area Rwy 27.
San Diego (Montgomery)	109.0	G	Unusable all areas except runup areas for Rwys 05 and 28L.
San Francisco Intl	111.0	G	
Santa Ana (John Wayne Airport/Orange Co)	110.0	G	
Santa Monica Muni	113.9	G	Unusable all areas except runup areas for Rwys 03 and 21.
Torrance (Zamperini Fld)	113.9	G	

COLORADO

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type	Azimuth	Dist.	Checkpoint Description
		Check Pt. Gnd.	from Fac. Mag.	from Fac. N.M.	
Akron	114.4/AKO	A/6000	179	7.0	Over lgtd twr.
Cortez (Cortez Muni)	108.4/CEZ	A/7000	196		Over apch end rwy 21.
Denver (Rocky Mountain Metropolitan)	115.4/BJC	G	060	0.6	Runup area at Alpha 17.
Hayden (Craig-Moffat)	115.6/CHE	A/7200	248	9.6	Over apch end rwy 25.
Pueblo (Pueblo Memorial)	116.7/PUB	G	249	3.8	On painted circle with arrow on runup pad S side apch end rwy 08L.
	116.7/PUB	A/7300	294	7.8	Over KOAA TV twr, 5.4 NM of arpt.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Centennial	108.2	G	VOT unusable east of Twy C-4.
(City of Colorado Springs Muni)	110.4	G	
Denver International	110.0	G	VOT unusable in terminal area N of Twy AA to Twy BN and W Twy L to Twy F.

**VOR RECEIVER CHECK
NEVADA
VOR RECEIVER CHECKPOINTS**

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Bullion (Elko Rgnl).....	114.5/BQU	A/7000	343	5.1	Over center of race track.
Ely (Ely Arpt/Yelland Fld).....	110.6/ELY	G	059		Intersection of Twy A and Twy B.
Mustang (Reno/Stead)	117.9/FMG	A/7000	291	12.8	Over atct.
Wells (Wells Muni/Harriet Fld)	114.2/LWL	A/7000	286	8.3	Over radio twr.
Winnemucca Muni	108.2/INA	A/6000	024	6.5	Over highway bridge crossing railroad tracks.
	108.2/INA	G	134	.8	Runup area Rwy 32.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Las Vegas (North Las Vegas).....	108.2	G	

NEW MEXICO

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag.	Dist. from Fac. N.M.	Checkpoint Description
Carlsbad (Carlsbad City Air Terminal)	116.3/CNM	G	333	5.4	On Twy A in front of fire department.
Hobbs (Lea County Rgnl).....	111.0/HOB	G	030	3.5	On runup pad apch end Rwy 03.
Las Vegas (Las Vegas Muni)	117.3/LVS	A/8500	233	6.0	Over yellow water tank.
Roswell (Roswell Intl Air Center).....	116.1/CME	G	100	5.2	On middle of W ramp adjacent to twy.
Santa Fe (Santa Fe County Muni)	110.6/SAF	G	334	4.7	At junction main intersection of twy and ramp. (Checkpoint unusable).
Silver City (Grant Co)	110.8/SVC	G	100	0.9	Twy entrance to Rwy 26 just west of approach end.
Texico (Clovis Muni).....	112.2/TXO	A/6000	240	12.7	Over rotating beacon on steel twr adjacent to terminal bldg.
Truth or Consequences (Truth or Consequences Muni)	112.7/TCS	G	155	3.2	On Twy A 2000' from AER 31.
Tucumcari (Tucumcari Muni)	113.6/TCC	G	258	0.5	100' in front of terminal on twy.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Albuquerque Intl. Sunport	111.0	G	

VOR RECEIVER CHECK UTAH

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VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freq/Ident	Type	Azimuth	Dist.	Checkpoint Description
		Check Pt. Gnd. AB/ALT	from Fac. Mag.	from Fac. N.M.	
Cedar City (Cedar City Rgnl).....	117.3/CDC	A/6500	177	4.7	Over apch end Rwy 20.
Delta (Delta Muni).....	116.1/DTA	A/6000	346	5.3	Over apch end of Rwy 17.
Vernal (Vernal Rgnl)	108.2/VEL	A/8000	021	6.5	Over towers on knoll.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type, VOT Facility	Remarks
Salt Lake City Intl	111.0	G	

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
ARIZONA			
(c) Buckeye Muni	8 NM; 089° Buckeye	14,000	Daily SR—2 hours after SS. 2 NM radius.
(c) Bullhead City, Eagle Airpark..	10 NM; 300° Needles.....	15,000	3 NM Daily 0645–1835
(c) Casa Grande Muni	9 NM; 041° Stanfield.....	12,000	2 NM Daily 0600–1700.
(c) Coolidge Muni	25 NM; 070° Stanfield.....	17,999	15 NM radius, daily. High altitude, full canopy, free fall, and low level combat parachute jumping. Large military transports in vicinity of arpt.
(c) Cottonwood Arpt	22.1 NM; 072° Drake	14,000	Continuous during dalght hrs.
(c) Eloy Muni	17 NM; 094° Stanfield.....	17,500	Albuquerque Center 124.5 4 NM radius. Daily SR—2 hours after SS (ctc UNICOM for PAJA advisories. Landing area ¼ mile E of rwy centerline).
(c) Estrella Sailport	17 NM; 300° Stanfield.....	14,000	1 NM radius. Daily SR—SS.
Kingman Arpt	25 NM; 334° Kingman	12,000	5 NM radius, daily SR—SS.
(c) Laguna AAF/Yuma Proving Ground	11.8 NM; 048° Bard	25,000	Continuous 24 hrs. 5 NM radius, Laguna AAF Control Zone.
(c) Marana Rgnl	25 NM; 308° Tucson	17,999	15 NM radius, Continuous. Tucson Tower 125.1
(c) Marana, Pinal Airpark	33 NM; 308° Tucson	25,000	15 NM radius, Continuous.
CALIFORNIA			
Apple Valley Arpt	10 NM; 073° Victorville.....	15,000	2 NM radius, daily SR—SS.
(c) Brickland's Ranch	12.5 NM; 339° Redding.....	3,900	3 NM radius, May 1 thru Nov 1 yearly.
(c) Byron Arpt	23 NM; 250° Manteca	15,000	Daily SR—SS
(c) California City Muni Arpt	30 NM; 348° Palmdale	17,500	Daily SR—SS.
(c) Camarillo Arpt	8.4 NM; 000° Ventura	14,000	2 NM radius, usually blo 10,000', SR—SS; Listen for 1—minute call on Camarillo Twr freq.
(c) Cloverdale Muni Arpt	18 NM; 316° Santa Rosa.....	12,500	1 NM radius, Mon—Sun 0800–2100.
(c) Davis/Woodland/Winters, Yolo Co	16.5 NM; 283° Sacramento	13,500	3 NM radius, daily SR—2300.
(c) Fall River Mills Arpt	34.4 NM; 63° Redding.....	8,700	2 NM radius, daily May 1—Nov 30.
(c) Hemet/Diamond Valley	12.5 NM; 107° Homeland	14,000	3 NM radius. Wed—Fri 0900—SS. Sat—Sun 0800—SS, other days and times by request.
(c) Hollister Muni	16.6 NM; 017° Salinas.....	17,999	1 NM. Daily, all hours. Oakland Center 128.7
(c) Lake Elsinore, Skylark Fld	10.5 NM; 198° Homeland	14,000	1 NM radius, 0800—SS daily
(c) Lincoln Rgnl/Karl Harder Fld.	14.7 NM; 353° McClellan.....	15,000	Daily 0800—SR
(c) Lodi Arpt	15 NM; 285° Linden	15,000	Continuous 24 hrs. 1 NM radius. Other altitudes by notam.
Lompoc Arpt	20 NM; 277° Gaviota.....	15,000	4 NM radius, Thu—Mon SR—SS.
(c) Lompoc	14 NM; 284° Gaviota.....	17,999	1 NM radius, daily 1600—0400.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Los Alamitos AAF	At field.....	1,500 AGL	Weekends and occasional weekdays
(c) Madera Muni Arpt	15.2 NM; 277° Clovis.....	15,000	3 NM radius. Daily SR–1 hour after SS.
(c) Marina Muni	7.6 NM; 259° Salinas.....	12,500	SR–SS Sat and Sun
Murrieta, Bear Creek Arpt.....	13 NM; 178° Homeland.....	11,500	1 NM radius. Mon–Fri 0800–sunset, Sat–Sun 0630–sunset.
(c) Oro Loma, Eagle Fld	12 NM; 010° Panoche	12,500	2 NM radius, Fri–Sun.
Palm Springs	12 NM; 130° Palm Springs.....	14,000	1 NM radius. Daily sunrise to sunset.
(c) Paradise Skypark Arpt	12 NM; 097° Chico	14,500	Daily, 0800–SS.
(c) Perris Valley Arpt.....	1 NM; 220° Homeland.....	14,500	Daily SR–SS
(c) Salinas, Davis Road Drop Zone.....	6 NM; 235° Salinas.....	18,000	1 NM radius, Daily 0500–1900
(c) San Diego, Brown Fld Muni ...	2.3 NM 157° Poggi.....	14,000	2 NM radius. Mon–Fri 0800–1800.
(c) San Diego, Leon Drop Zone ..	11.5 NM; 192° Mission Bay	2,800	Continuous. 1NM radius. Altitudes above 2800–15000 MSL avbl upon request, (ctc SOCAL prior to entering Terminal Control Area).
(c) San Diego, Otay Reservoir	4.4 NM; 058° Poggi.....	5,800	1NM radius. Daily SR–SS.
(c) San Diego, South Bay.....	7 NM; 136° Mission Bay	2,800	Daily SR–SS. 1NM radius altitudes above 2800–3300 MSL avbl upon request, (ctc SOCAL prior to entering Terminal Control Area).
(c) San Diego, Trident	5 NM; 111° Poggi.....	15,000	Daily SR–SS. 1NM radius
Santa Maria	5 NM; 021° Guadalupe	12,500 AGL	0900–SS, Sat, Sun and holidays
(c) Santa Ynez	8 NM; 293° Gaviota.....	17,999	1 NM radius, daily 1600–0400.
(c) Slate Creek	30 NM; 323° Redding.....	5,500	3 NM radius. May 1 thru Nov 1 yearly.
(c) Taft Drop Zone	25.7 NM; 197° Shafter	13,000	1 NM radius. SR–SS, occasional night jumps by NOTAM.
(c) Taft–Kern Co Arpt	21 NM; 066° Fellows.....	13,000	2 NM radius. Daily SR–SS, occasional ngt jumps by NOTAM.
(c) Tres Pinos Drop Zone	16 NM; 045° Salinas.....	12,500	1 NM radius. Daily SR–SS.
(c) Twentynine Palms	12 NM; 265° Twentynine Palms .	12,500	1 NM radius, 0900–SS, Sat, Sun, and holidays.
(c) Wilton Drop Zone	17.5 NM; 080° Sacramento	1,500 AGL	Hvy equip, paratroopers.
COLORADO			
Boulder Muni	9 NM; 328° Jeffco.....	18,000	2 NM radius. Daylight hrs.
(c) Brush Muni.....	19.6 NM 277° Akron	17,700	2 NM radius, Daily 0800–SS.
(c) Calhan Arpt.....	17NM; 057° Black Forrest.....	17,500	2 NM radius, 1hr before SR– 1 hr after SS daily.
(c) Canon City, Fremont County Arpt	32.9 NM; 271° Pueblo.....	17,500	2 NM radius. Weekends 0600–2100.
(c) Colorado Springs, USAF Academy Airstrip	9 NM; 266° Black Forrest.....	17,500	Daily SR–SS occasionally til 2200.
(c) Fort Collins/Loveland Muni Arpt	19.5 NM; 248° Gill.....	17,500	3 NM Wed–Sun SR–1 hr after SS.
Greeley, Skydive the Farm	16 NM; 308° Gill.....	14,500	2 NM radius. Fri–Sun 0800–SS.
(c) Hugo, Kelly Drop Zone.....	10 NM; 254° Hugo	8,000	2 NM radius. Heavy equipment paratroopers possible jumps during IFR/marginal VFR.
(c) Longmont, Vance Brand Arpt	15 NM; 346° Jeffco.....	17,900	2 NM radius. Daily SR–2 hrs after SS.
(c) Trinidad, Pinon Drop Zone ...	28 NM; 279° Tobe	8,000	2 NM radius. Heavy equipment paratroopers possible jumps during IFR/marginal VFR.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
NEVADA			
(c) Boulder City Arpt.	3 NM; 164° Boulder City	17,000	0.5 NM radius. Daily SR-SS.
(c) El Dorado Jump Zone	7 NM; 195° Boulder City	17,000	0.5 NM radius. Daily, SR-SS.
Indian Springs AF Aux Arpt.	38 NM; 304° Las Vegas	10,000	5 NM radius. Daily SR-SS.
(c) Jean Drop Zone	24.1 NM; 191° Las Vegas	15,000	1 NM radius. Daily SR-SS.
(c) Mesquite Arpt.	11.4 NM; 054° Mormon Mesa ...	17,500	2 NM radius. Continuous SR-SS.
(c) Nellis AFB, Gunfighter Drop Zone	12.7 NM; 25° Las Vegas	17,500 AGL	1.3 NM east of rwys. SR-SS Sat-Sun. Other times by NOTAM.
(c) Pahrump	49 NM; 126° Beatty	12,500	Tue-Sun SR-SS
Reno/Stead Arpt	15 NM; 292° Mustang	14,000	1.0 NM radius. Daily SR-SS.
(c) Tonopah Arpt.	10 NM; 270° Tonopah	10,000	1 NM radius. Daily SR-SS.
NEW MEXICO			
Albuquerque	6 NM; 050° Albuquerque	18,000	Weekends and holidays
	17 NM; 140° Albuquerque	17,000	SR-SS weekends.
(c) Belen, Alexander Muni	12 NM; 346° Socorro	16,000	1 NM radius. Daily SR-SS.
(c) Santa Teresa, Dona Ana Co at Santa Teresa Arpt	22 NM; 268° El Paso	13,000	1 NM radius. SR-SS Sat-Sun. S side of arpt.
UTAH			
(c) Cedar Fort, Cedar Valley Arpt	6.5 NM; 313° Fairfield	17,500	3 NM radius. Daily SR-2300.
Goshen Wells, Cedar Valley	4 NM; 270° Fairfield	10,000	0.25 NM radius. Occasional use
(c) Hurricane, General Dick Stout Fld	15 NM; 060° St George	15,000	1 NM radius. Daily SR-SS.
Logan, Logan-Cache Arpt	7.2 NM; 051° Brigham City	15,000	0.5 NM radius 0900-sunset. Weekends and Holidays.
(c) Ogden-Hinckley	5 NM; 085° Ogden	17,999	2 NM radius. Daily SR-SS. NE corner Ogden Arpt.
(c) Bolinder Fld-Tooele Valley Arpt	24 NM; 215° Wasatch	17,000	2 NM radius. Daily 1300-0600.

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

ALBUQUERQUE SECTIONAL

84th Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

NAVAIDS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

22 Oct 2009 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

CG-19 WORLD AERONAUTICAL CHART

39th Edition, 4 Jun 2009

OBSTRUCTIONS

2 Jul 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

2 Jul 2009 Add arpt elev 1071, lighting code *L, runway length 71 and unicom at GLENDALE arpt, 33°31'36"N, 112°17'42"W.

27 Aug 2009 – 8 Apr 2010 No Major Changes.

NAVAIDS

2 Jul 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

2 Jul 2009 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

2 Jul 2009 – 8 Apr 2010 No Major Changes.

CHEYENNE SECTIONAL
81st Edition, 14 Jan 2010**OBSTRUCTIONS**

11 Feb 2010 Add obst 4844' MSL (350' AGL) UC, 40°21'23"N, 104°08'48"W.

Add obst 6184' MSL (390' AGL) UC, 43°02'26"N, 105°58'50"W.

8 Apr 2010 Add obst 5024' MSL (367' AGL) UC, 44°11'51"N, 106°16'13"W.

Add windmill farm. 7643' UC is highest MSL, 41°39'33"N, 106°03'26"W.

Add windmill farm. 6269' UC is highest MSL, 43°01'45"N, 106°00'03"W.

Add obst 4749' MSL (500' AGL) UC, 44°23'17"N, 105°27'34"W.

Add obst 2485' MSL (306' AGL) UC, 44°02'17"N, 101°41'15"W.

Add obst 7189' MSL (270' AGL) UC, 41°40'47"N, 107°03'49"W.

Add obst 5832' MSL (300' AGL) UC, 43°18'20"N, 107°41'37"W.

Add obst 8603' MSL (270' AGL) UC, 41°31'41"N, 107°22'18"W.

Add obst 5591' MSL (389' AGL) UC, 42°53'04"N, 106°13'59"W.

Add obst 7062' MSL (407' AGL) UC, 41°08'21"N, 105°01'30"W.

Add obst 4489' MSL (350' AGL) UC, 41°31'40"N, 103°13'48"W.

AIRPORTS

11 Feb 2010 No Major Changes.

8 Apr 2010 Change CTAF 122.9 to 122.8 at SOUTH BIG HORN CO arpt, 44°31'01"N, 108°04'58"W.

NAVAIDS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 Revise RIVERTON, WY Class E: That airspace extending upward from 700 feet above the surface within an 8.7-mile radius of the Riverton Regional Airport and within 4 miles each side of the Riverton VOR/DME 291° radial extending from the 8.7-mile radius to 16.6 miles west of the VOR/ DME, and within 3.1 miles each side of the Riverton VOR/DME 123° radial extending from the 8.7-mile radius to 10.5 miles southeast of the VOR/DME; that airspace extending upward from 1200 feet above the surface within a 21.8-mile radius of the Riverton VOR/DME within 8.7 miles east and 6.1 miles west of the Riverton VOR/DME 016° radial extending from the 21.8-mile radius to 33.1 miles north of the VOR/DME, and within 6.1 miles northeast and 12.7 miles southwest of the Riverton VOR/DME 301° radial extending from the 21.8-mile radius to 32.2 miles northwest of the VOR/DME, on the east within an area bounded by a point beginning at 42°56'30"N, 107°59'45"W; to 42°54'53"N, 107°44'31" W; to 42°42'35"N, 107°53'00"W; to 42°49'00"N, 108°06'00"W; thence to the point of beginning.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

DENVER SECTIONAL
82nd Edition, 14 Jan 2010**OBSTRUCTIONS**

11 Feb 2010 Add obst 6957' MSL (260' AGL) UC, 35°44'25"N, 109°26'49"W.
Add obst 5570' MSL (350' AGL) UC, 39°53'07"N, 104°28'50"W.
Add obst 5430' MSL (350' AGL) UC, 39°50'33"N, 103°53'05"W.
Add obst 5441' MSL (350' AGL) UC, 39°54'44"N, 104°14'34"W.
8 Apr 2010 No Major Changes.

AIRPORTS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

NAVAIDS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 No Major Changes.
8 Apr 2010 Revise GRAND JUNCTION, CO Class E5. That airspace extending upward from 700 feet above the surface within 7 miles northwest and 4.3 miles southeast of the Grand Junction VORTAC 247° and 067° radials extending from 11.4 miles southwest to 12.3 miles northeast of the VORTAC, and within 1.8 miles south and 9.2 miles north of the Grand Junction VORTAC 110° radial extending from the VORTAC to 19.2 miles southeast of the VORTAC; that airspace extending upward from 1,200 feet above the surface within a 30.5-mile radius of the Grand Junction VORTAC, within 6.5 miles each side of the Grand Junction VORTAC 099° radial extending from the 30.5-mile radius to 58 miles east of the VORTAC, and within 4.3 miles each side of the Grand Junction VORTAC 166° radial extending from the 30.5-mile radius to 33.1 miles south of the VORTAC, and within 4.3 miles northeast and 4.9 miles southwest of the Grand Junction ILS localizer northwest course extending from the 30.5-mile radius to the intersection of the localizer northwest course and the Grand Junction VORTAC 318° radial.

SPECIAL USE AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

DENVER/COLORADO SPRINGS TERMINAL AREA CHART
73rd Edition, 14 Jan 2010**OBSTRUCTIONS**

11 Feb 2010 Add obst 4492' MSL (350' AGL) UC, 38°07'04"N, 103°31'00"W.
Add obst 4844' MSL (350' AGL) UC, 40°21'23"N, 104°08'48"W.
Add obst 5570' MSL (350' AGL) UC, 39°53'07"N, 104°28'50"W.
Add obst 5430' MSL (350' AGL) UC, 39°50'33"N, 103°53'05"W.
Add obst 5441' MSL (350' AGL) UC, 39°54'44"N, 104°14'34"W.
8 Apr 2010 No Major Changes.

AIRPORTS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

NAVAIDS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

EL PASO SECTIONAL
84th Edition, 11 Feb 2010

OBSTRUCTIONS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

AIRPORTS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

NAVAIDS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 – 8 Apr 2010 No Major Changes.

GRAND CANYON VFR AERONAUTICAL CHART
3rd Edition, 19 Apr 2001

OBSTRUCTIONS

17 May 2001 – 8 Apr 2010 No Major Changes.

AIRPORTS

17 May 2001 – 10 May 2007 No Major Changes.
5 Jul 2007 Delete TASSI arpt, 36°15'09"N, 113°57'54"W.
Delete THE RANCH arpt, 36°00'37"N, 112°17'30"W.
30 Aug 2007 – 8 Apr 2010 No Major Changes.

NAVAIDS

17 May 2001 – 8 Apr 2010 No Major Changes.

AIRSPACE

17 May 2001 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

17 May 2001 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

17 May 2001 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

17 May 2001 Blue Direct North (BDN) west bound route, add 10,500 with a westbound arrow above the 8,500 figure just west of Supal/Diamond Creek Sector boundary.
12 Jul 2001 – 8 Apr 2010 No Major Changes.

KLAMATH FALLS SECTIONAL
82nd Edition, 8 Apr 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 No Major Changes.

NAVAIDS

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

LAS VEGAS SECTIONAL
83rd Edition, 11 Mar 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 Change CTAF 122.8 to 123.05 at STOUT arpt, 37°08'20"N, 113°18'23"W.

NAVAIDs

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

LAS VEGAS TERMINAL AREA CHART
72nd Edition, 11 Mar 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 No Major Changes.

NAVAIDs

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

LOS ANGELES HELICOPTER ROUTE CHART

8th Edition, 22 Dec 2005

OBSTRUCTIONS

22 Dec 2005 – 13 Apr 2006 No Major Changes.
8 Jun 2006 Add group obst 405' MSL (390' AGL) UC, 33°43'39"N, 118°14'19"W.
3 Aug 2006 – 15 Jan 2009 No Major Changes.
12 Mar 2009 Add obst 421' MSL (348' AGL), 33°53'39"N, 118°13'31"W.
7 May 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

22 Dec 2005 – 3 Aug 2006 No Major Changes.
28 Sep 2006 Delete METHODIST heliport, 34°08'00"N, 118°02'33"W.
Delete SAN PEDRO PENINSULA heliport, 33°44'19"N, 118°18'38"W.
23 Nov 2006 – 30 Aug 2007 No Major Changes.
25 Oct 2007 Delete ANAHEIM POLICE heliport, 33°49'35"N, 117°54'05"W.
20 Dec 2007 – 20 Nov 2008 No Major Changes.
15 Jan 2009 Add SAN BERNARDINO INTL ATCT 119.45, 34°05'43"N, 117°14'06"W.
EL TORO MCAS arpt abandoned, 33°40'34"N, 117°43'52"W.
Change CTAF freq 122.975 to 119.45 at SAN BERNARDINO INTL arpt, 34°05'43"N, 117°14'06"W.
12 Mar 2009 – 17 Dec 2009 No Major Changes.
11 Feb 2010 Delete LAKE MATHEWS arpt, 33°51'11"N, 117°25'26"W.
8 Apr 2010 No Major Changes.

NAVAIDS

22 Dec 2005 – 15 Jan 2009 No Major Changes.
12 Mar 2009 Change RIVERSIDE VOR position from 33°57'07"N, 117°26'57"W to 33°57'19"N, 117°26'59"W, and magnetic variation from 15E to 14E.
7 May 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

22 Dec 2005 – 25 Sep 2008 No Major Changes.
20 Nov 2008 Add SAN BERNARDINO, CA Class D: That airspace extending upward from the surface to and including 3200 feet MSL beginning at 34°08'09"N, 117°18'40"W; to 34°08'09"N, 117°11'13"W; to 34°07'42"N, 117°10'26"W; to 34°02'24"N, 117°10'26"W; thence via the 4.5 nautical mile radius of the San Bernardino Airport clockwise to the point of beginning. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.
15 Jan 2009 – 2 Jul 2009 No Major Changes.
27 Aug 2009 Change SANTA ANA Class C freq from 380.2 to 279.575
22 Oct 2009 No Major Changes.
17 Dec 2009 Change ONTARIO INTL ATCT freq. from 385.6 to 360.775, 34°03'22"N, 117°36'04"W.
11 Feb 2010 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

22 Dec 2005 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

22 Dec 2005 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

22 Dec 2005 – 8 Jun 2006 No Major Changes.
3 Aug 2006 Change MEF 0⁵ to 0⁶ in quadrant 33°30'–33°45"N, 118°00'–118°15"W.
28 Sep 2006 – 8 Apr 2010 No Major Changes.

LOS ANGELES SECTIONAL
86th Edition, 17 DEC 2009**OBSTRUCTIONS**

17 Dec 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

17 Dec 2009 – 8 Apr 2010 No Major Changes.

NAVAIDS

17 Dec 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

11 Feb 2010 Change CAMP PENDLETON MCAS (MUNN) ATCT freq. from 382.2 to 340.2, 33°18'04"N, 117°21'18"W.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

17 Dec 2009 – 8 Apr 2010 No Major Changes.

LOS ANGELES TERMINAL AREA CHART
60th Edition, 17 Dec 2009**OBSTRUCTIONS**

17 Dec 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

11 Feb 2010 Delete LAKE MATHEWS arpt, 33°51'11"N, 117°25'26"W.

8 Apr 2010 No Major Changes.

NAVAIDS

17 Dec 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

17 Dec 2009 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

17 Dec 2009 – 8 Apr 2010 No Major Changes.

PHOENIX SECTIONAL**82nd Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009** No Major Changes.**17 Dec 2009** Add obst 6479' MSL (417' AGL) UC, 34°38'19"N, 110°18'56"W.**11 Feb 2010** No Major Changes.**8 Apr 2010** Add obst 1774' MSL (255' AGL), 33°43'29"N, 113°42'12"W.

Add obst 1391' MSL (260' AGL) UC, 33°50'19"N, 113°53'10"W.

Add windmill farm. 6479' is highest MSL, (417' AGL), 34°38'19"N, 110°18'56"W.

AIRPORTS**22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Delete RYAN FIELD ATCT 120.35, 32°08'32"N, 111°10'28"W.**8 Apr 2010** Change FALCON FIELD ATCT freq from 124.6 to 119.7 (Arr N,W; Dep Rwy 04L/22R), 124.6 (Arr S,E; Dep Rwy 04R/22L), 33°27'39"N, 111°43'42"W.**NAVAIDS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****22 Oct 2009** No Major Changes.**17 Dec 2009** Revise LAKE HAVASU, AZ. Class E: That airspace extending upward from 700 feet above the surface within a 6.7-mile radius of Lake Havasu City Airport and within 1 mile each side of the Lake Havasu City Airport 150° bearing extending from the 6.7-mile radius to 1.3 miles southeast of the Lake Havasu City Airport, excluding that airspace with a 2.3-mile radius of Chemehuevi Valley Airport. That airspace extending upward from 1,200 feet above the surface bounded by a line beginning at 34°42'47"N, 114°29'37"W; to 34°42'47"N, 114°12'06"W; to 34°23'00"N, 114°12'06"W; to 34°17'19"N, 114°32'12"W; thence to the point of beginning.**11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 8 Apr 2010** No Major Changes.

PHOENIX TERMINAL AREA CHART
41st Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

AIRPORTS

22 Oct 2009 – 11 Feb 2010 No Major Changes.

8 Apr 2010 Change FALCON FIELD ATCT freq from 124.6 to 119.7 (Arr N,W; Dep Rwy 04L/22R), 124.6 (Arr S,E; Dep Rwy 04R/22L), 33°27'39"N, 111°43'42"W.

NAVAIDS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

AIRSPACE

22 Oct 2009 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

22 Oct 2009 – 8 Apr 2010 No Major Changes.

SALT LAKE CITY HELICOPTER ROUTE CHART
3rd Edition, 26 Oct 2006

OBSTRUCTIONS

23 Nov 2006 – 8 Apr 2010 No Major Changes.

AIRPORTS

23 Nov 2006 – 10 Apr 2008 No Major Changes.

5 Jun 2008 Delete PAYNE arpt, 41°05'54"N, 112°06'56"W.

Delete WARD heli, 40°35'59"N, 111°48'03"W.

31 Jul 2008 – 25 Sep 2008 No Major Changes.

20 Nov 2008 Delete CHANNEL 4 heli, 40°43'57"N, 111°57'20"W.

15 Jan 2009 – 8 Apr 2010 No Major Changes.

NAVAIDS

23 Nov 2006 – 8 Apr 2010 No Major Changes.

AIRSPACE

23 Nov 2006 – 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Nov 2006 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Nov 2006 – 8 Apr 2010 No Major Changes.

MISCELLANEOUS

23 Nov 2006 – 8 Apr 2010 No Major Changes.

SALT LAKE CITY SECTIONAL
83rd Edition, 8 Apr 2010**OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

SALT LAKE CITY TERMINAL AREA CHART
42nd Edition, 8 Apr 2010**OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

SAN DIEGO TERMINAL AREA CHART
59th Edition, 17 Dec 2009**OBSTRUCTIONS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**11 Feb 2010** Change CAMP PENDLETON MCAS (MUNN) ATCT freq. from 382.2 to 340.2, 33°18'04"N, 117°21'18"W.**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

SAN FRANCISCO SECTIONAL
84th Edition, 11 Mar 2010**OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

SAN FRANCISCO TERMINAL AREA CHART
76th Edition, 11 Mar 2010**OBSTRUCTIONS****8 Apr 2010** No Major Changes.**AIRPORTS****8 Apr 2010** No Major Changes.**NAVAIDS****8 Apr 2010** No Major Changes.**AIRSPACE****8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****8 Apr 2010** No Major Changes.**MISCELLANEOUS****8 Apr 2010** No Major Changes.

WICHITA SECTIONAL
84th Edition, 14 Jan 2010**OBSTRUCTIONS****11 Feb 2010** Add obst 1665'MSL (349'AGL)UC, 36°21'39"N, 98°33'03"W.

Add obst 4492'MSL (350'AGL)UC, 38°07'04"N, 103°31'00"W.

Add obst 5430'MSL (350'AGL)UC, 39°50'33"N, 103°53'05"W.

8 Apr 2010 Add obst 1729'MSL (349'AGL)UC, 36°24'58"N, 98°44'43"W.

Add obst 2487'MSL (730'AGL)UC, 37°24'09"N, 98°34'52"W.

Add obst 3688'MSL (270'AGL)UC, 38°31'06"N, 101°29'49"W.

Add obst 1755'MSL (349'AGL)UC, 36°32'58"N, 98°15'31"W.

Add obst 2753'MSL (295'AGL)UC, 36°08'18"N, 99°32'31"W.

AIRPORTS**11 Feb 2010** Add RP 8 and RP 26 to MC PHERSON arpt, 38°21'08"N, 97°41'28"W.**8 Apr 2010** Change RP 8 to RP 18 at MC PHERSON arpt, 38°21'08"N, 97°41'28"W.**NAVAIDS****11 Feb 2010 – 8 Apr 2010** No Major Changes.**AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****11 Feb 2010 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****11 Feb 2010 – 8 Apr 2010** No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

FACILITY NAME	CHART & PANEL
Frankfort, IL (LL40) Chicago App/Dep Con 133.1 285.6	L-28H
Glasgow Industrial, MT (Ø7MT) Salt Lake Center App/Dep Con 126.85 305.2	H-1E, 2F, L-13D
USAF Academy Bullseye Aux Airstrip, CO (CO90) ASOS 118.325	L-10F
West Kentucky Airpark, KY (5KY3) Memphis Center App/Dep Con 133.65 292.15	L-16I
William P Gwinn, FL (Ø6FA) Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡) Gnd Con 121.65 279.25	H-8I, L-23C

CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX) ATIS 119.8 (1500-0700Z‡) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8 MF 119.4 295.0 (0700-1500Z‡) (Shape irregular to 4500')	H-1B, L-12F
Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9	H-11B
Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500' No ground station)	L-14I
Barrie-Drillia (Lake Simcoe Rgnl), ON (CYLS) AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025	H-11B, L-31D
Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65	L-31C
Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25	L-32J
Boundary Bay, BC (CZBB) ATIS 125.5 (1500-0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3 MF 118.1 (0700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.)	H-1B, L-1E
Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1	L-31D
Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000')	H-2H
Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27	L-31D
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) Montreal Center App/Dep Con 134.675	L-32G
Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	L-32G
Burlington Airpark, ON (CZBA) Toronto Center App/Dep Con 119.3 253.1	L-31D
Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H-11E, L-32J
Chatham-Kent, ON (CNZ3) Cleveland Center App/Dep Con 132.25	H-10G, L-30G

FACILITY NAME	CHART & PANEL
Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
Digby, NS (CYID) Moncton Center App/Dep Con 123.9	L-32J
Downsview, ON (CYZD) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (1300-2300Z±, 3 NM to 1700')	H-11B, L-31E
Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35	L-32H
Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4	L-31C
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
Fredericton Intl, NB (CYFC) ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1200-2000Z±) Gnd Con 121.7 (Ltd hrs) MF 119.0 (2000-1200Z±, 5 NM to 3500')	H-11E, L-32I
Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
Greenwood, NS (CZVX) ATIS 128.85 244.3 (1100-0000Z±) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	H-11E, L-32J
Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 Apron Advisory 122.125	H-11E, L-32J
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z±) MF 122.5 (1115-0400Z± 5 NM to 3300')	H-11C, L-31E, 32F
Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z±) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z±) Gnd Con 121.8 MF 126.0 (0400-1200Z± 5 NM to 4000')	H-11B, L-31D
Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-11C
Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E

FACILITY NAME	CHART & PANEL
Leamington, ON (CLM2) Cleveland Center App/Dep Con 132.45	L-30F
Lethbridge, AB (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
Lindsay, ON (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9	L-32J
London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57	L-32G
Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
Medicine Hat, AB (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
Midland/Huronina, ON (CYEE) Toronto Center App/Dep 124.025	L-31D
Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57	L-32G
Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Cinc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
Muskoka, ON (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
North Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L31D
Oshawa, ON (CYOO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E

FACILITY NAME	CHART & PANEL
Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep 132.575 290.6	L-31D
Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0	L-30F
Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
Penticton, BC (CYYP) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25	H-11B, L-31E, 32F
Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2	H-1D
Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z‡) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z‡) (3NM to 2500')	L-1E
Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
Riviere Du Loup, QC (CYRI) AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
Sarnia (Chris Hadfield), ON (CYZR) Toronto Center 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM) ATIS 133.05 (1300-0100Z‡) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z‡) Gnd Con 121.7 MF 118.8 (0100-1300Z‡ 5 NM irregular shape to 3000')	H-2K, L-31B
Sherbrooke, QC (CYAM) AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275	L-31E, 32F
Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
Springwater Barrie Airport, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300')	H-10H, 11B, L-31E
St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7	L-32G
Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
Summerside, PE (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
Thunder Bay, ON (CYQT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡) Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	H-2J, L-14J
Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	H-11B
Toronto/Buttonville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z‡) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31E
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130-0400Z‡) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	L-31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z‡)	H-11B, L-31D
Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4	H-11C, L-31E, 32F
Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
Val-d'Or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')	H-11B
Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Cinc Del 121.4	H-1B, L-1E

FACILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ) ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
Victoriaville, QC (CSR3) Montreal Center App Con 132.35	L-32H
Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
Warton, ON (CYVW) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

MEXICO

FACILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS) Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
Durango Intl (MMDO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
General Abelardo L Rodriguez Intl (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Cinc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
Quetzalcoatl Intl (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
Torreon Intl (MMTC) App Con 119.6 Tower 118.5	H-7A









In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

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., , , .
 2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., .
- To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
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

FAA procedure amendment number \leftarrow Amdt 11A 99365 \rightarrow Date of latest change
 \leftarrow Orig 00365 \rightarrow

The Chart Date identifies the Julian date the chart was added to the volume 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 addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

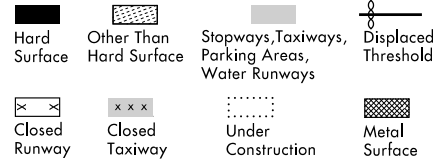
- * Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

10042
LEGEND

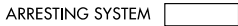
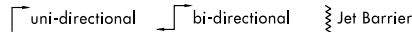
INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

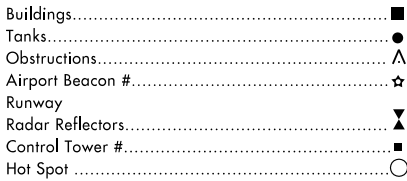
Runways



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




REFERENCE FEATURES













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

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 A/FD, Alaska or Pacific 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 S75, T185, ST175, TT325 PCN 80 F/D/X/U

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

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

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.

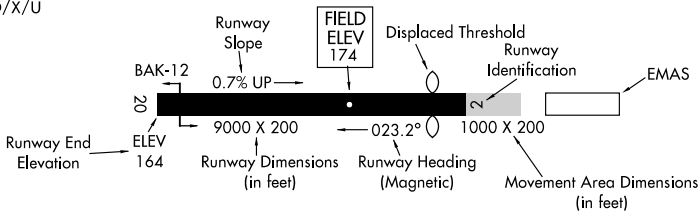
Airport diagram scales are variable.

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.

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)



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

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 designated as "HOT¹", "HOT²", 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
ARIZONA		
MESA FALCON FLD (FFZ)	HOT ¹	Acft approaching Twy D from the ramp and destined for Rwy 04R or Rwy 22L sometimes miss the turn into Twy D.
PHOENIX PHOENIX-MESA GATEWAY (IWA)	HOT ¹	Twy V, Twy B, and Twy K complex intersection.
TUCSON RYAN FLD (RYN)	HOT ¹	Air traffic often taxies acft via Twy B and onto Rwy 33 for departure on Rwy 06R. Use caution not to enter Rwy 6R without ATC authorization.
TUCSON TUCSON INTL (TUS)	HOT ¹ HOT ² HOT ³	Complex intersection. Pilots instructed to hold short of Rwy 11L-29R or Rwy 11R-29L sometimes cross the approach area of these rwy's without authorization. Rwy 29R sometimes mistaken for Rwy 29L.
CALIFORNIA		
CONCORD BUCHANAN FIELD (CCR)	HOT ¹ HOT ² HOT ³ HOT ⁴	Pilots traveling southeast on Twy J and instructed to taxi via Twy E to Rwy 01L or Rwy 19R sometimes miss the turn onto Twy E and proceed onto Rwy 01L-19R at Twy J without clearance. Pilots departing the Rwy 32L run-up area sometimes mistake Twy J for Twy 32L. Complex intersection at Rwy 01R-19L, Twy J, Twy A, Twy C and Twy K. Pilots on Twy A sometimes fail to comply with hold short instructions for Rwy 32L apch area.
HAWTHORNE JACK NORTHROP FIELD/ HAWTHORNE MUNI (HHR)	HOT ¹	Rwy 25 run-up area, do not depart the run-up area without ATC clearance.
HAYWARD HAYWARD EXECUTIVE (HWD)	HOT ¹ HOT ² HOT ³	Acft approaching Twy A from the ramp sometimes fail to turn onto Twy A, proceeding onto Twy E and ultimately Rwy 10L-28R. Area not visible from ATCT. Area not visible from ATCT.
LONG BEACH LONG BEACH DAUGHERTY FLD (LGB)	HOT ¹ HOT ² HOT ³	Acft exiting Rwy 30 at Twy A turn left on Twy D, anticipate reaching their destination, and fail to hold short of Rwy 07L-25R. Acft northbound on Twy B and instructed to hold short of Rwy 12-30 at Twy K sometimes miss the turn onto Twy K and proceed straight ahead onto Rwy 12-30 and Rwy 07L-25R. Acft southbound on Twy B anticipate reaching their destination parking ramp and fail to hold short of Rwy 07R-25L.

	HOT ⁴	Acft eastbound on Twy J instructed to taxi to Rwy 25L at Twy D sometimes miss the turn onto Twy D and proceed onto Rwy 12-30 without authorization.
	HOT ⁵	Acft taxiing to Rwy 16R from the southwest ramp sometimes miss the left turn onto Twy B, continue eastbound onto Twy F, and enter Rwy 16R-34L.
	HOT ⁶	After completing a run-up on inactive Rwy 34R, acft sometimes fail to hold short of Rwy 07R-25L.
	HOT ⁷	Acft Idg Rwy 30, be aware that this rwy crosses every other rwy at the arpt. When exiting, pilots should ensure they are following a yellow, "lead-off" line onto a rwy.
MERCED		
CASTLE (MER)	HOT ¹	Complex area. Verify correct taxi route. Areas south of Twy A and Twy G are private ramp.
	HOT ²	Tfc congestion due to large volume of aircraft proceeding to and from Rwy 31.
NAPA		
NAPA COUNTY (APC)	HOT ¹	Twy A, Twy C, Twy E, and the ramp. Complex intersection and high density tfc area.
	HOT ²	Rwy 24, Twy A. Acft and vehicles transiting to and from the hangars via Twy A sometimes cross Rwy 24 at Twy A without clearance.
	HOT ³	Rwy 24 and Rwy 36L. Acft taxiing on Rwy 24, do not cross Rwy 36L without clearance. Acft taxiing on Rwy 36L, do not cross Rwy 24 without clearance.
OAKLAND		
METROPOLITAN	HOT ¹	Twy A and Twy B both cross Rwy 27R. Pilots sometimes mistake Twy A for Twy B, and vice versa. Verify correct taxi route.
OAKLAND INTL (OAK)	HOT ²	Acft departing the ramp sometimes miss their turn onto Twy C or Twy D, mistakenly proceeding onto Twy H or Twy G and ultimately Rwy 09L-27R.
	HOT ³	Complex intersection. Pilots sometimes taxi onto Rwy 09L or Rwy 33 by mistake.
PALM SPRINGS		
PALM SPRINGS	HOT ¹	Pilots sometimes mistake Twy C for Rwy 13R-31L or Rwy 13L-31R.
INTL (PSP)	HOT ²	Pilots instructed to taxi to Rwy 13R via Twy B and Twy C sometimes miss the turn onto Twy C and proceed onto Rwy 31R without authorization.
	HOT ³	Pilots approaching Rwy 31R on Twy B sometimes fail to hold short of Rwy 31R.
SACRAMENTO		
SACRAMENTO INTL (SMF)	HOT ¹	Acft approaching Twy A from the east on Twy A-10 sometimes miss the turn onto Twy A.
SALINAS		
SALINAS MUNI (SNS)	HOT ¹	Acft instructed to taxi from the ramp to Rwy 31 sometimes miss the turn onto Twy A and continue along Twy E, subsequently entering Rwy 31 without ATC authorization.
	HOT ²	Acft instructed to taxi from the ramp to Rwy 26 sometimes miss the turn onto Twy C and continue along Twy A, subsequently entering Rwy 26 at Twy A without ATC authorization.
SAN FRANCISCO		
SAN FRANCISCO	HOT ¹	Pilots instructed to follow Twy B south sometimes continue onto Twy J or Twy F by mistake.
INTL (SFO)	HOT ²	Pilots taxiing east on Twy C and instructed on turn right onto Twy E sometimes miss the turn onto Twy E and continue across Rwy 01L-19R by mistake.
SAN JOSE		
NORMAN Y. MINETA	HOT ¹	Pilots assigned Rwy 29 for Idg sometimes land Rwy 30L by mistake. Pilots proceeding into, or exiting, the Rwy 29 run-up area sometimes enter Rwy 29 without ATC authorization.
SAN JOSE INTL (SJC)		

SANTA ANA JOHN WAYNE AIRPORT/ORANGE CO (SNA)	HOT ¹	ATC often instructs pilots to "Taxi up to and hold short" of Rwy 19L and Rwy 19R. As with normal hold short instruction, one must always stop short of the Runway Holding Position Markings.
	HOT ²	Pilots exiting Rwy 19R or Rwy 19L onto Twy H: short distance between rws. Expect to hold short of the parallel rwy. Manage your taxi speed. Do not cross the Runway Holding Position Markings for the parallel rwy without ATC authorization.
	HOT ³	Pilots taxiing via Twy A, Twy H, and Twy C sometimes miss the turn from Twy H to Twy C.
SANTA BARBARA SANTA BARBARA MUNI (SBA)	HOT ¹	Pilots are sometimes confused by the angle at which Twy C intersects Rwy 07-25.
	HOT ²	Very wide pavement area. Do not cross Rwy 15L or Rwy 15R without authorization.
	HOT ³	ATC often utilizes Rwy 15L-33R and Rwy 15R-33L to taxi arriving aircraft off of Rwy 07-25.
	HOT ⁴	Pilots instructed to taxi to Rwy 35 sometimes miss the turn onto Twy J, not realizing that the approach end of Rwy 25 begins at Twy J.

COLORADO

ASPEN ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)	HOT ¹	Twy A2. Short taxi distance from ramp to rwy.
	HOT ²	Twy A on west edge of ramp. Passengers and vehicles are required to stay east of Twy A unless cleared by ATC.
	HOT ³	Twy A4. Short taxi distance from ramp to rwy.
DENVER CENTENNIAL (APA)	HOT ¹	Intersection Twy A-1. Hold line across run-up area.
	HOT ²	Twy A, Twy A-8, Twy A-9 and Twy C-1 congested intersections.
	HOT ³	Twy C-1 and Twy D-1 close proximity to Rwy 10.
DENVER ROCKY MOUNTAIN METROPOLITAN (BJC)	HOT ¹	Frequent helicopter operations on north ends of Twy B and Rwy 02-20. Use caution in this area.
EAGLE EAGLE COUNTY RGNL (EGE)	HOT ¹	High density parking area on ramp east of Twy C-2. Air carrier aircraft should not leave or enter taxiway A east of Twy C-2.

NEVADA

LAS VEGAS MC CARRAN INTL (LAS)	HOT ¹	Exiting the ramp, use caution at Twy S not to cross the rwy holding position markings for Rwy 19L. Twy S intersects with Twy D, Twy Z, and Twy G, which require a turn to the north or south.
	HOT ²	Exiting Rwy 01R-19L use caution not to enter Twy U, and avoid entering Rwy 01L-19R without authorization.
	HOT ³	Exiting Rwy 01R-19L use caution not to enter Twy Y, and avoid entering Rwy 01L-19R without authorization.
	HOT ⁴	Rwy holding position markings for Rwy 07L and Rwy 01L are co-located, and located north of Rwy 07L. Verify rwy heading and alignment with proper rwy prior to departure.
	HOT ⁵	Twy E is often misidentified as a rwy. Verify rwy markings prior to departure.
LAS VEGAS NORTH LAS VEGAS (VGT)	HOT ¹	ATC often requires Rwy 12R departures to hold short of Rwy 07. Common mistake is to cross Rwy 07 without ATC authorization.

	HOT ²	Pilots sometimes enter or cross Rwy 12R without authorization.
	HOT ³	Pilots taxiing east on Twy A and destined for Rwy 30L sometimes miss the turn onto Twy B, proceeding onto Rwy 12R without ATC authorization.
	HOT ⁴	Pilots taxiing east on Twy A sometimes fail to hold short of Rwy 12L, or neglect to turn onto Rwy 12L for departure, instead departing on Twy A.
RENO RENO/TAHOO INTL (RNO)	HOT ¹	Pilots departing the southwest ramp and instructed to hold short of Rwy 07–25 sometimes fail to comply.
	HOT ²	Pilots northbound on Twy C sometimes proceed straight ahead into the ramp by mistake.
	HOT ³	Full length departures for Rwy 16L sometimes turn left at Twy D by mistake.

UTAH

PROVO PROVO MUNI (PVU)	HOT ¹	Pilots taxiing to Rwy 13 often take Twy A–3 instead of Twy A. Twy A–3 leads to intersection of two rws.
SALT LAKE CITY SALT LAKE CITY INTL (SLC)	HOT ¹	Caution do not cross hold line for Rwy 35 during taxi SE on Rwy 14–32. Hold line is on north side of Rwy 32 numbers.
	HOT ²	Possible confusion between ramp, twy and rwy due to large paved area. Do not cross rwy hold lines without ATC clearance. ATC clearance is needed to enter the movement area, which is immediately west of vehicle drive lanes and marked by movement/nonmovement boundary line.

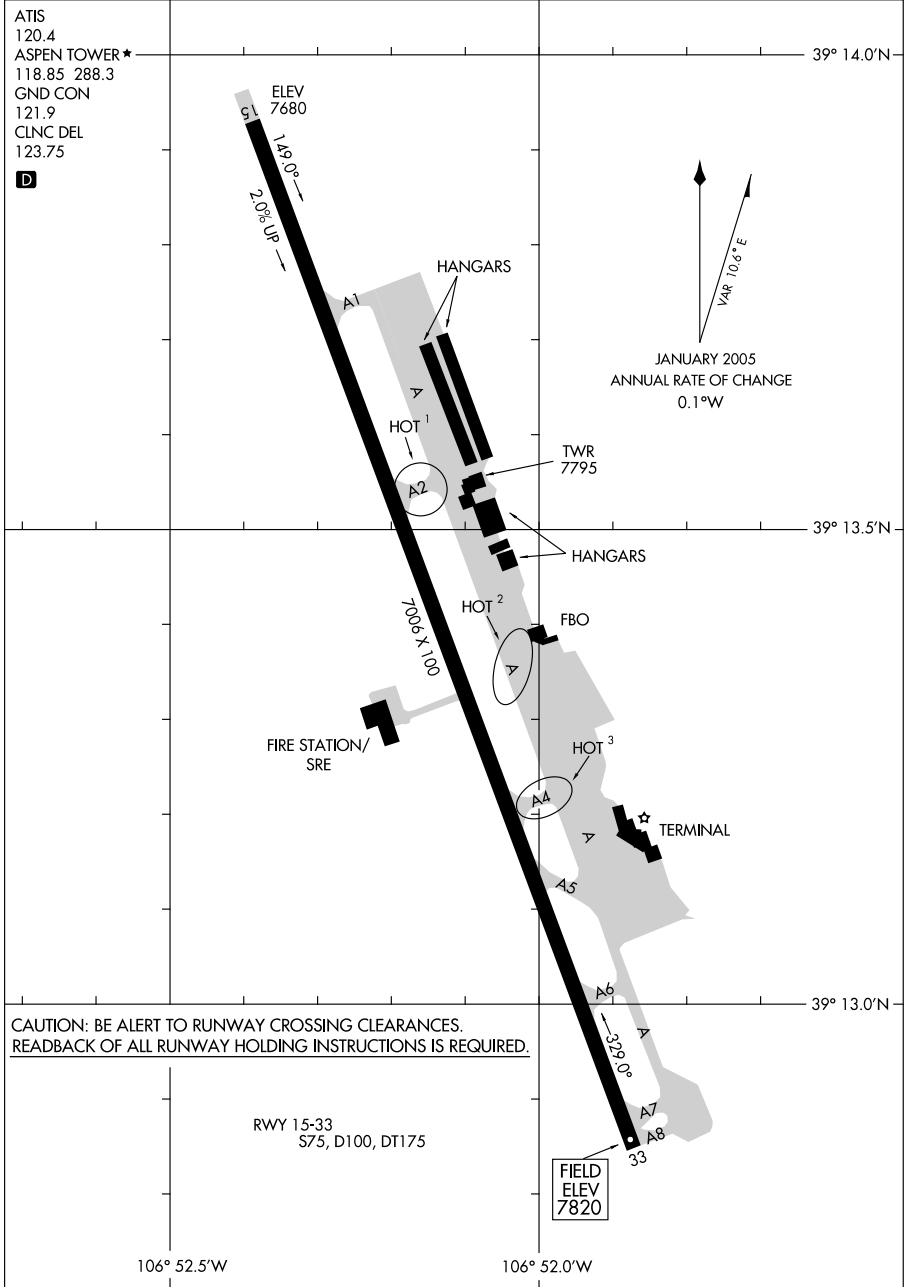
10098

AIRPORT DIAGRAM

ASPEN-PITKIN COUNTY/SARDY FIELD (A5E)

AL-5889 (FAA)

ASPEN, COLORADO



AIRPORT DIAGRAM

10098

ASPEN, COLORADO

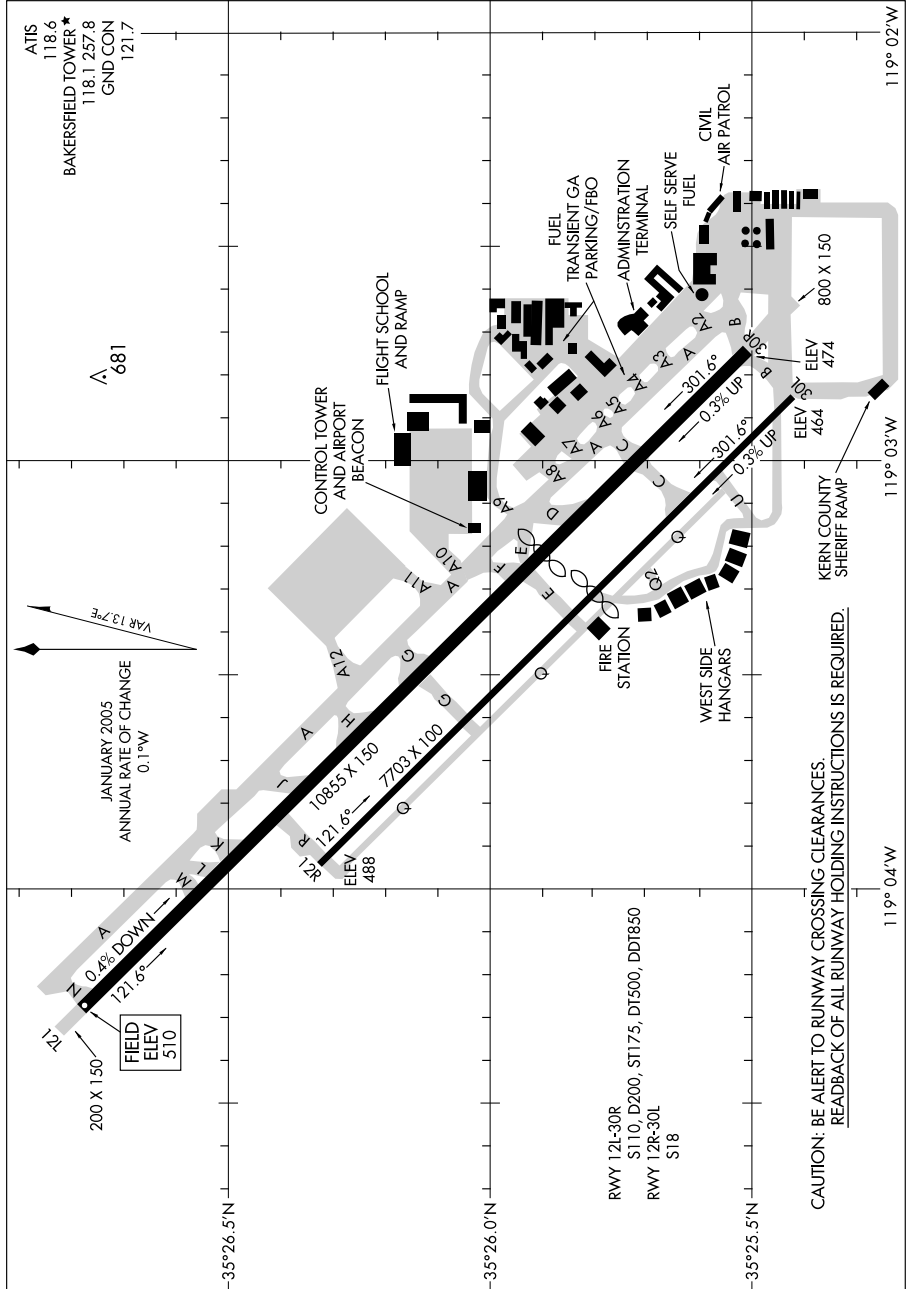
ASPEN-PITKIN COUNTY/SARDY FIELD (A5E)

09127

AIRPORT DIAGRAM

AL-36 (FAA)

BAKERSFIELD/MEADOWS FIELD (BFL)
BAKERSFIELD, CALIFORNIA



AIRPORT DIAGRAM

09127

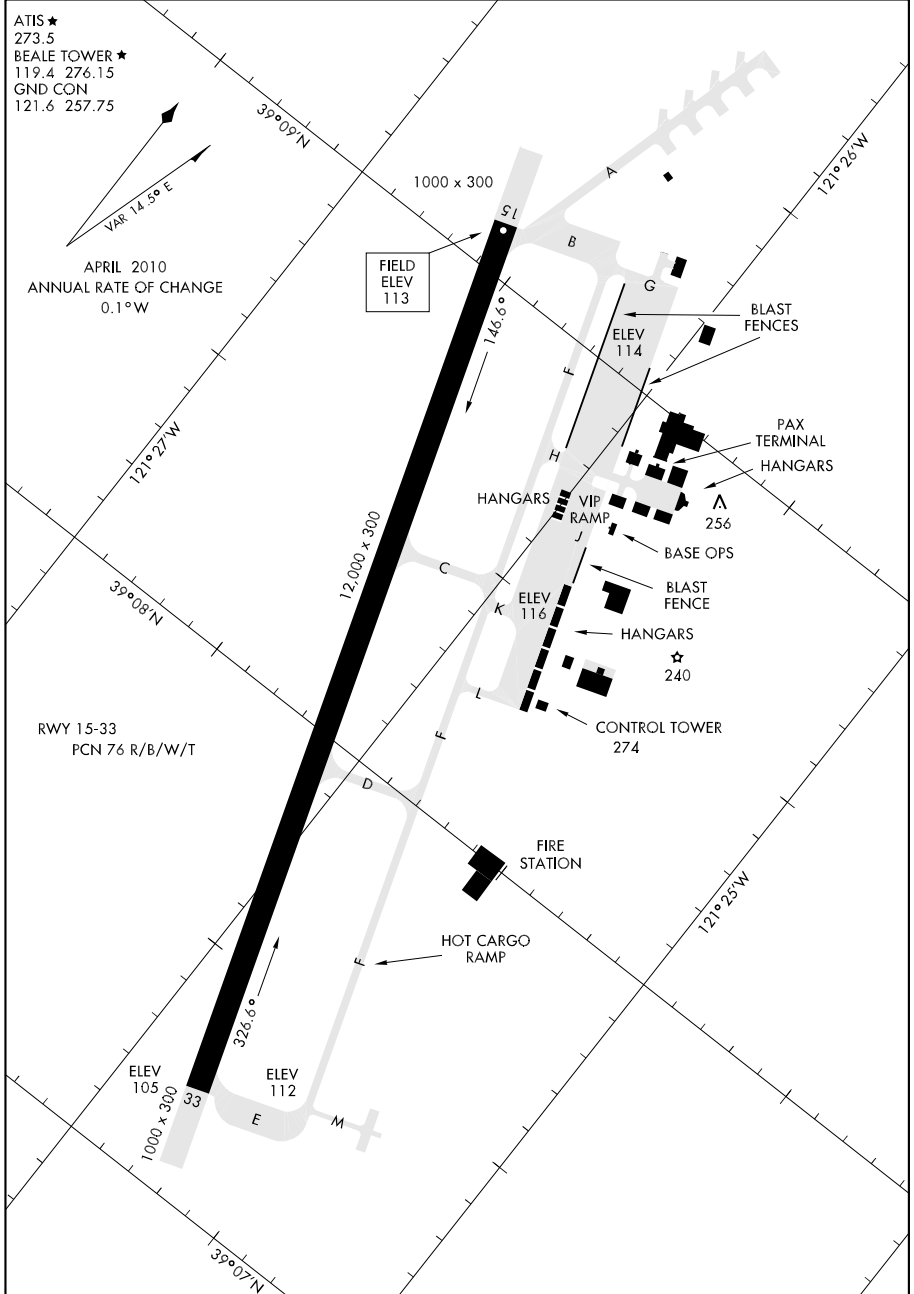
BAKERSFIELD, CALIFORNIA
BAKERSFIELD/MEADOWS FIELD (BFL)

10098

AIRPORT DIAGRAM

[USAF] AFD-771

BEALE AFB (KBAB)
MARYSVILLE, CALIFORNIA



AIRPORT DIAGRAM

MARYSVILLE, CALIFORNIA
BEALE AFB (KBAB)

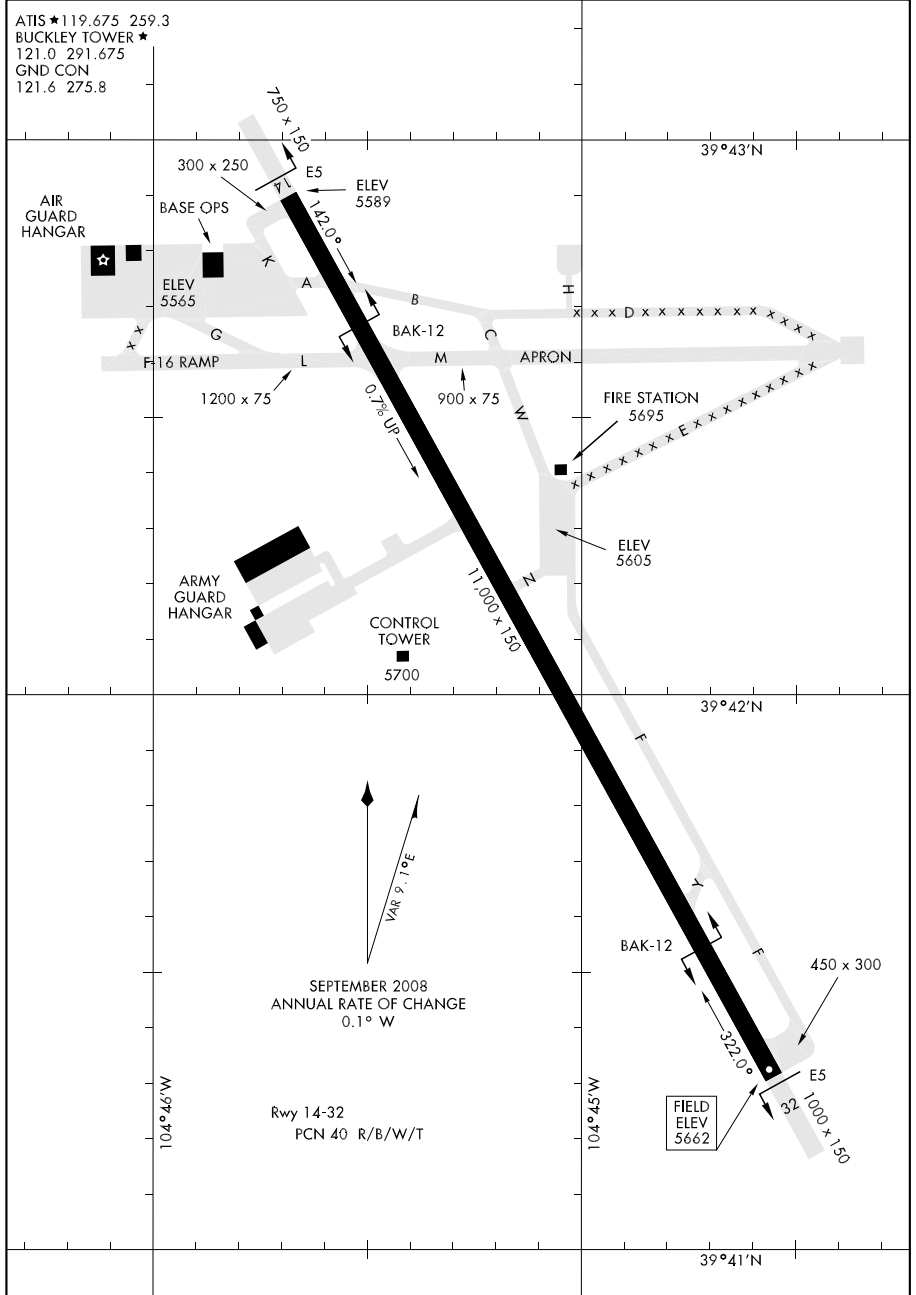
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AIRPORT DIAGRAM

AFD 538 [USAF]

BUCKLEY AFB (KBKF)

AURORA, COLORADO



AIRPORT DIAGRAM

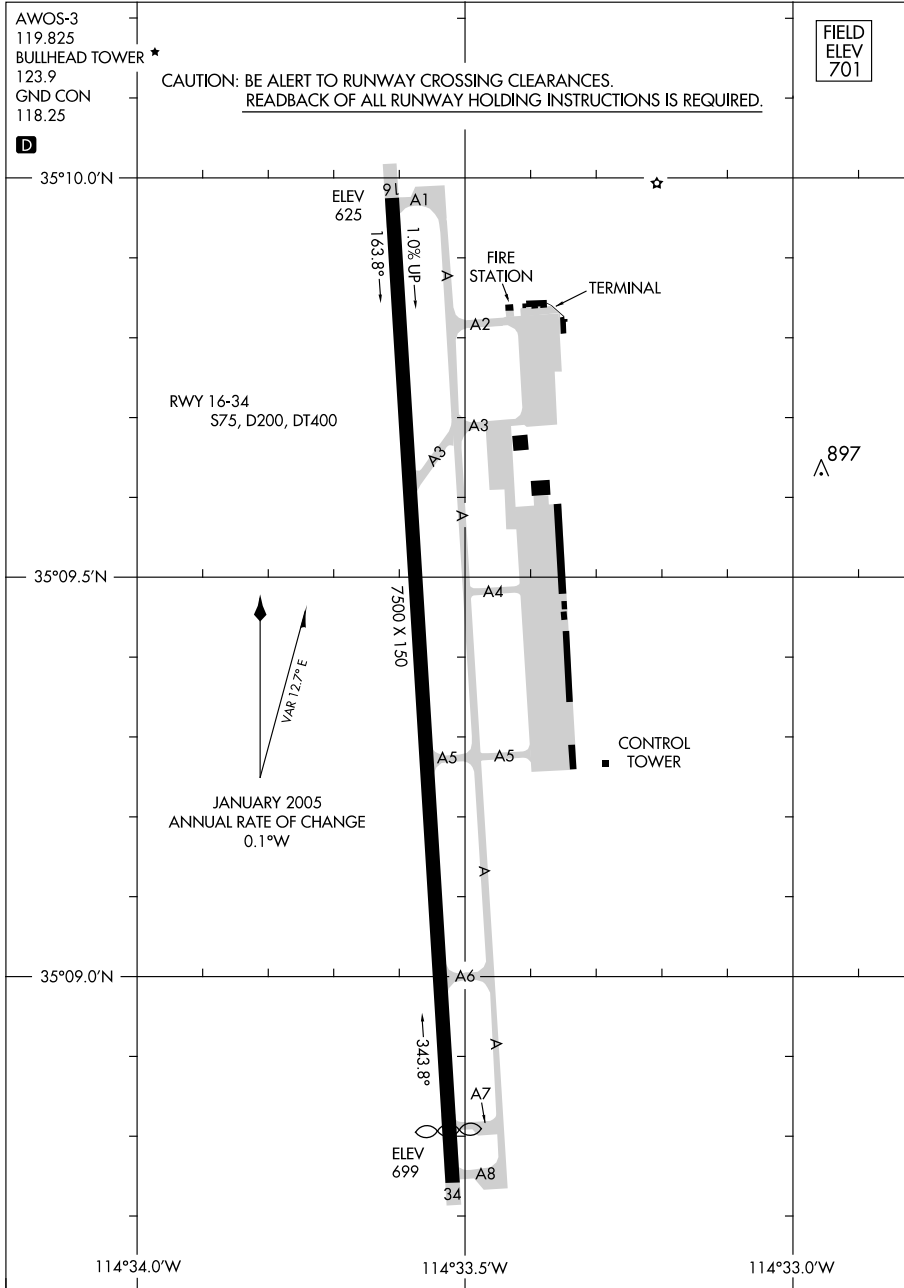
AURORA, COLORADO
BUCKLEY AFB (KBKF)

09295

AIRPORT DIAGRAM

AL-6967 (FAA)

BULLHEAD CITY/ LAUGHLIN/ BULLHEAD INTL (IFP)
BULLHEAD CITY, ARIZONA



AIRPORT DIAGRAM

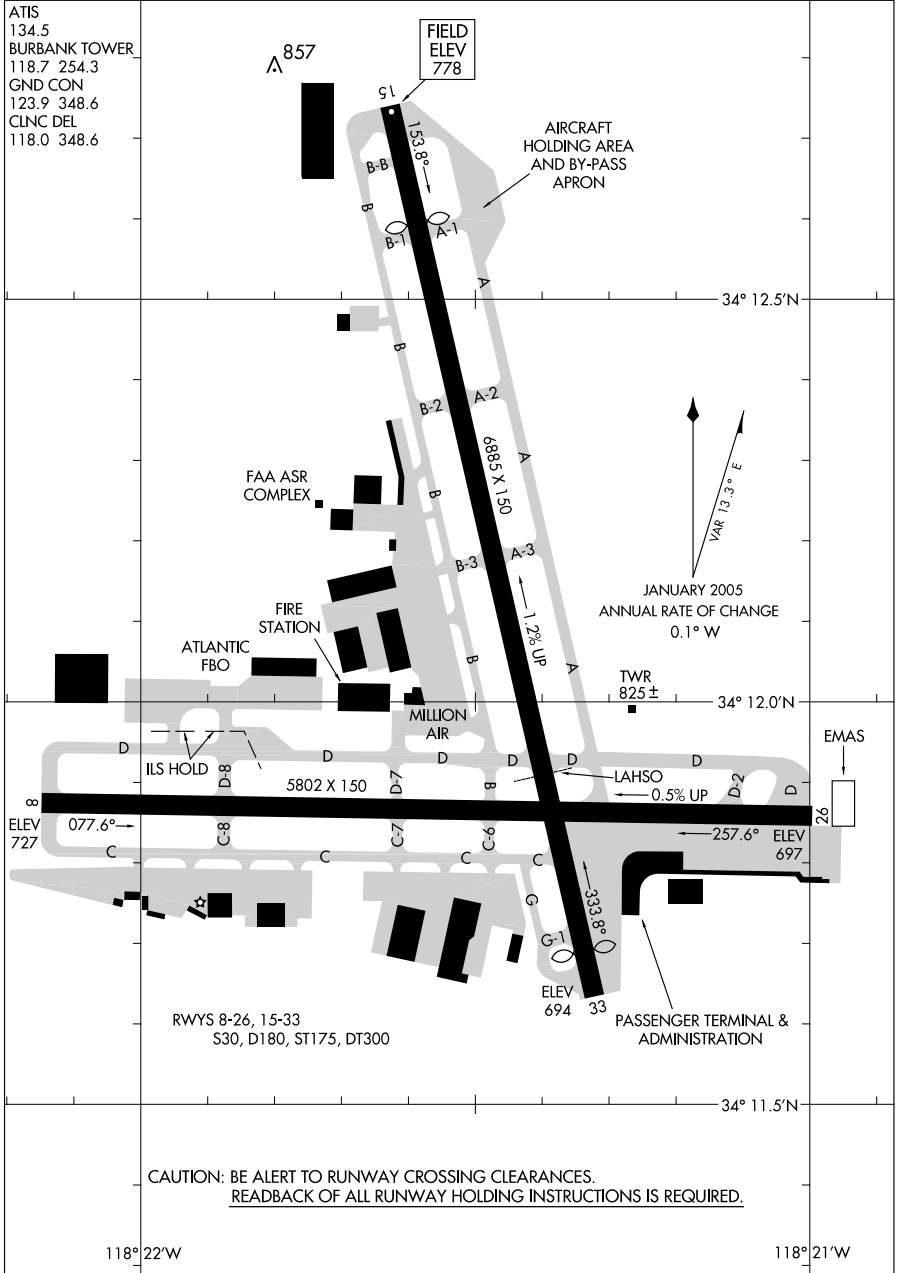
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BULLHEAD CITY, ARIZONA
BULLHEAD CITY/ LAUGHLIN/ BULLHEAD INTL (IFP)

10042

AIRPORT DIAGRAM

BURBANK/ BOB HOPE (BUR)
BURBANK, CALIFORNIA



AIRPORT DIAGRAM
10042

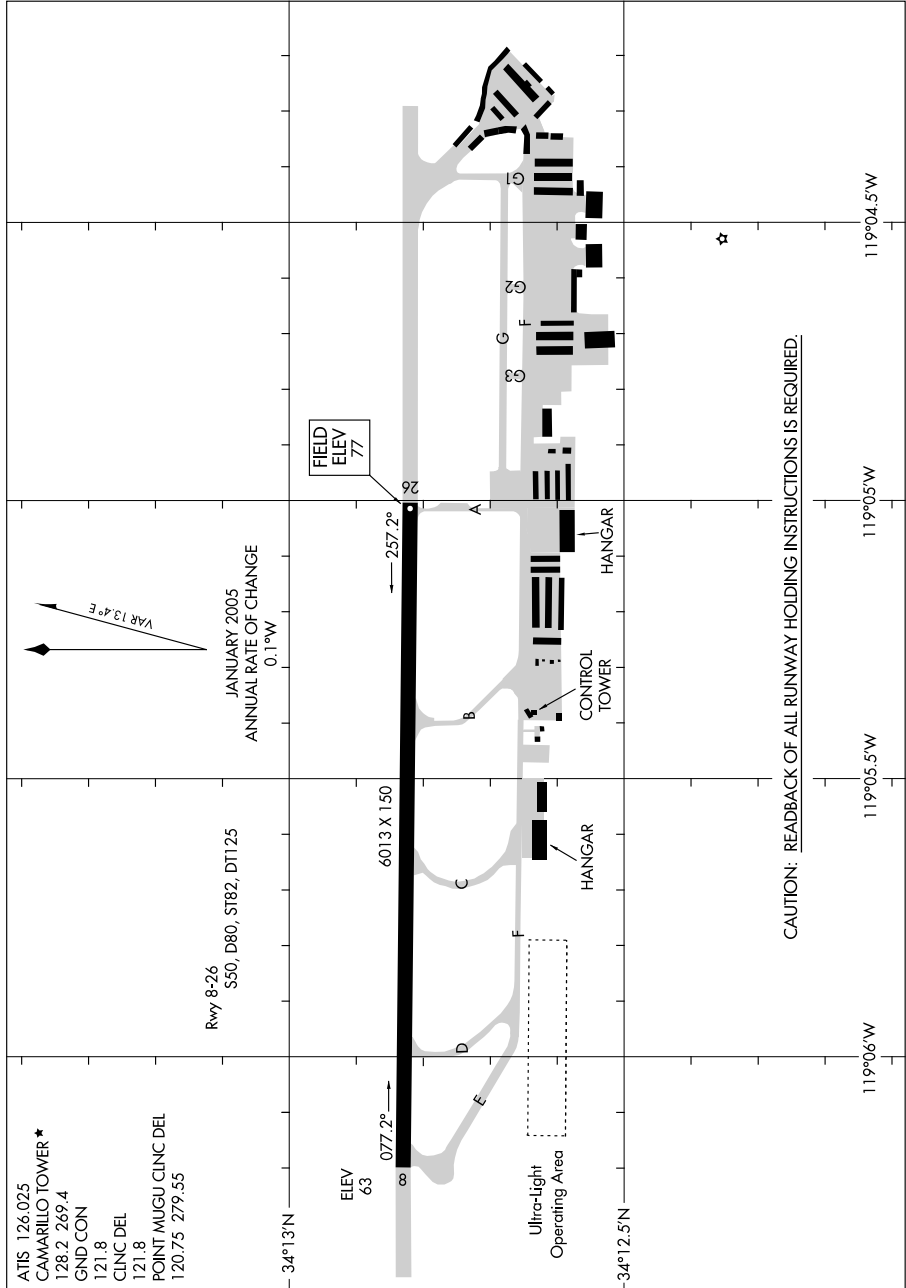
BURBANK, CALIFORNIA
BURBANK/ BOB HOPE (BUR)

08157

AIRPORT DIAGRAM

AL-680 (FAA)

CAMARILLO (CMA)
CAMARILLO, CALIFORNIA



AIRPORT DIAGRAM

08157

CAMARILLO, CALIFORNIA
CAMARILLO (CMA)

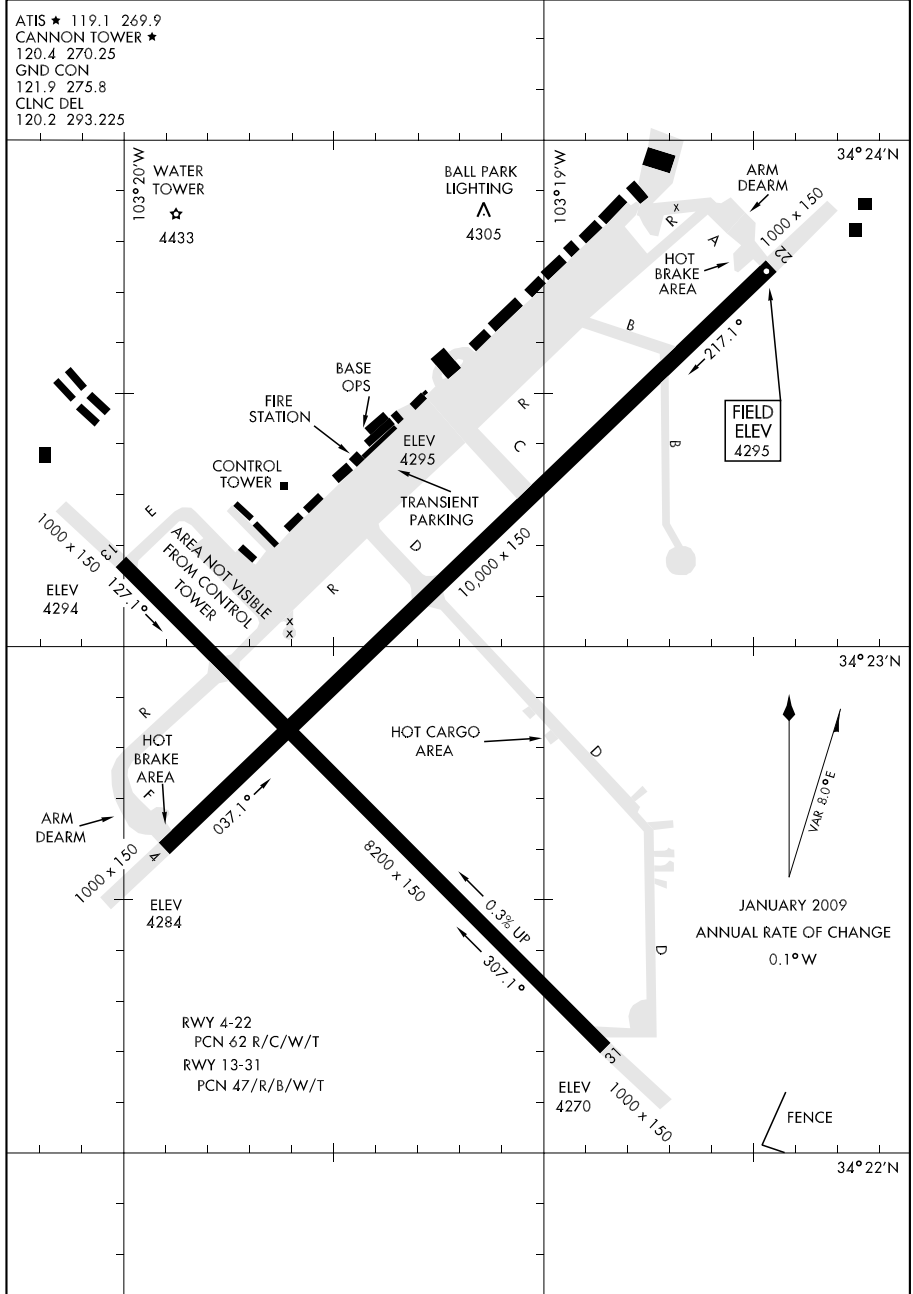
09015

AIRPORT DIAGRAM

AFD-512 [USAF]

CANNON AFB (KCVS)

CLOVIS, NEW MEXICO



AIRPORT DIAGRAM

WGS-84 DATUM

CLOVIS, NEW MEXICO
CANNON AFB (KCVS)

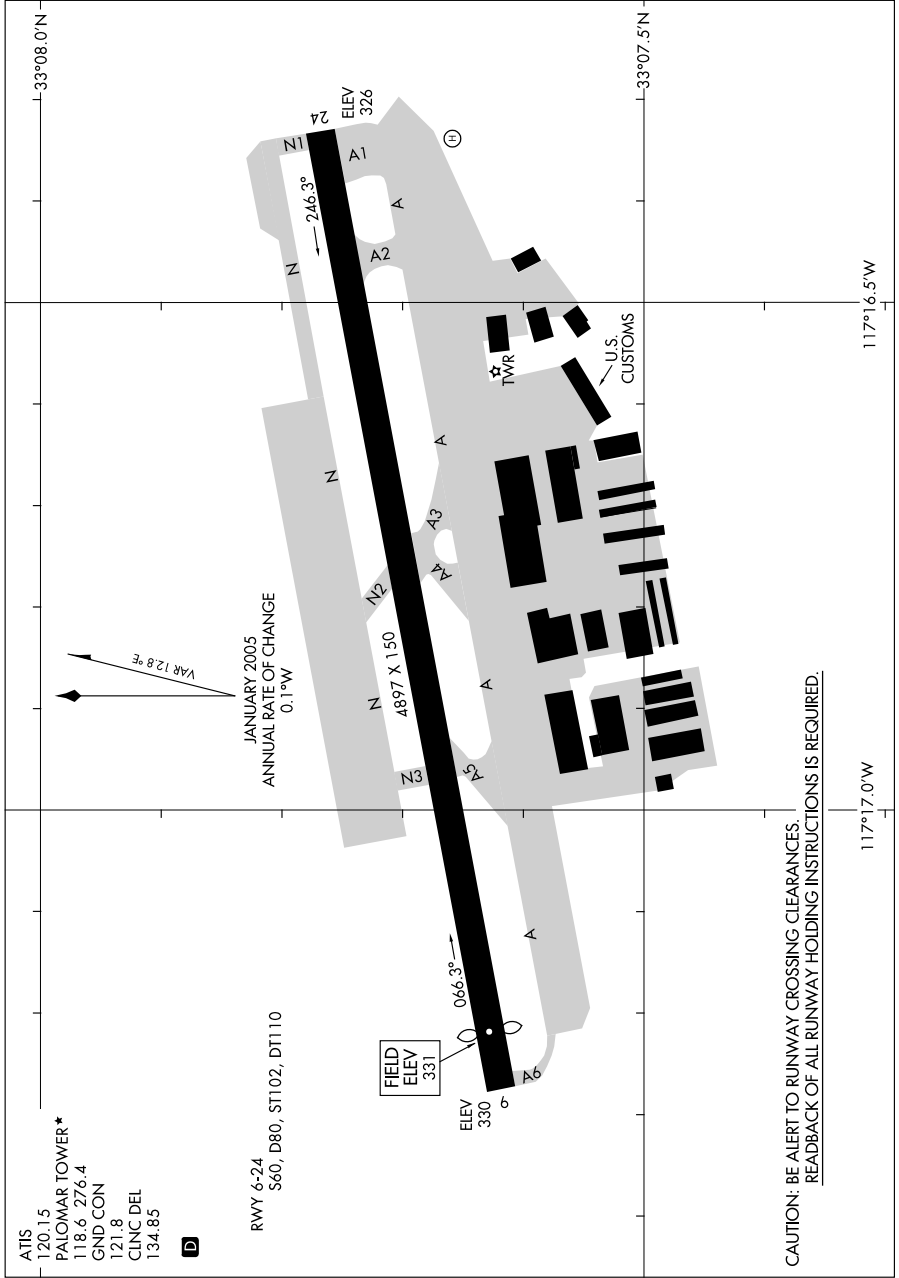
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AIRPORT DIAGRAM

AL-5310 (FAA)

CARLSBAD/MC CLELLAN-PALOMAR (CRQ)

CARLSBAD, CALIFORNIA



ATIS 120.15
 PALOMAR TOWER* 118.6 276.4
 GND CON 121.8
 CLINC DEL 134.85

RWY 6-24
 S60, D80, ST102, DT110

FIELD ELEV 331

ELEV 330

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

AIRPORT DIAGRAM

10098

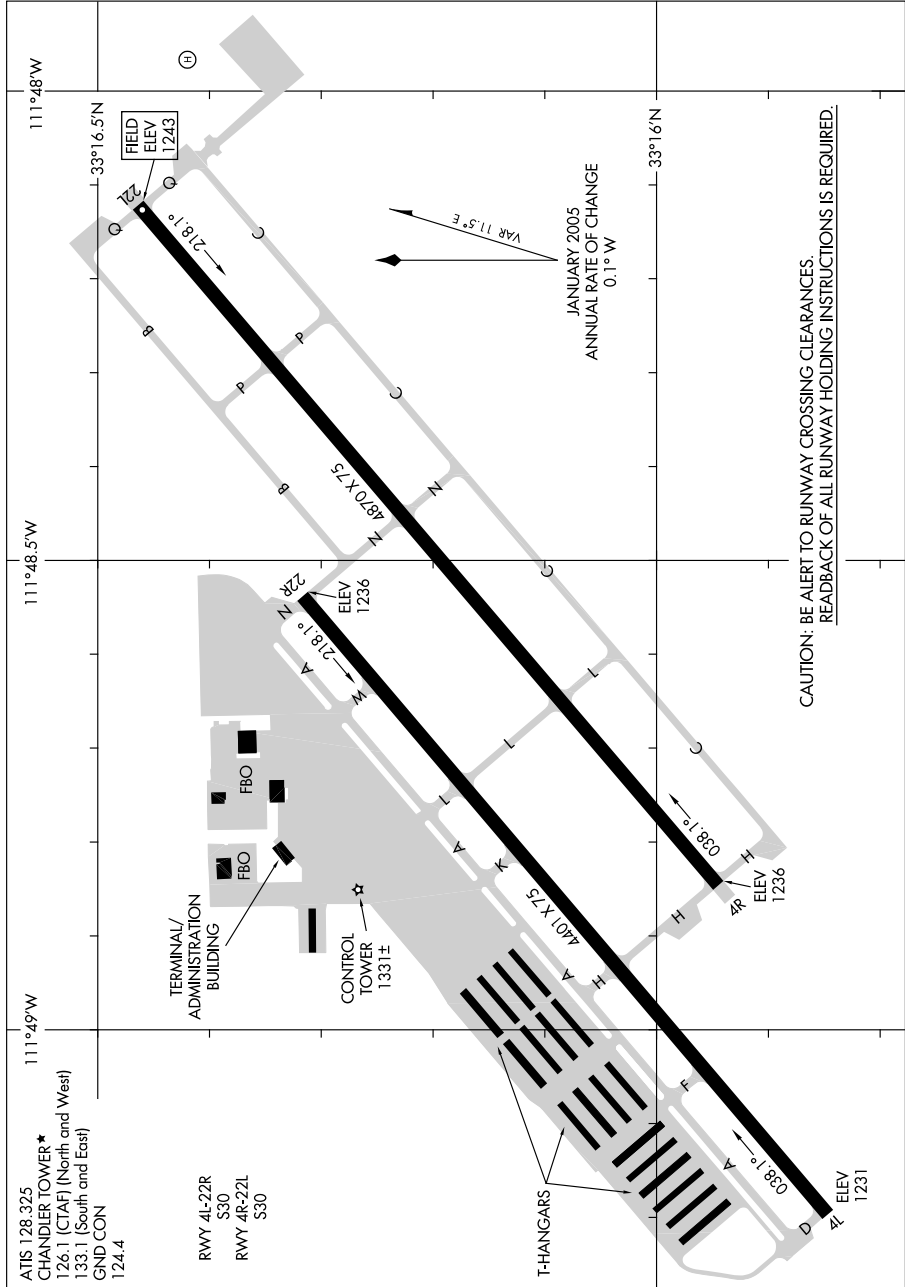
CARLSBAD, CALIFORNIA
CARLSBAD/MC CLELLAN-PALOMAR (CRQ)

08101

AIRPORT DIAGRAM

AL-6494 (FAA)

CHANDLER MUNI (CHD)
CHANDLER, ARIZONA



AIRPORT DIAGRAM

08101

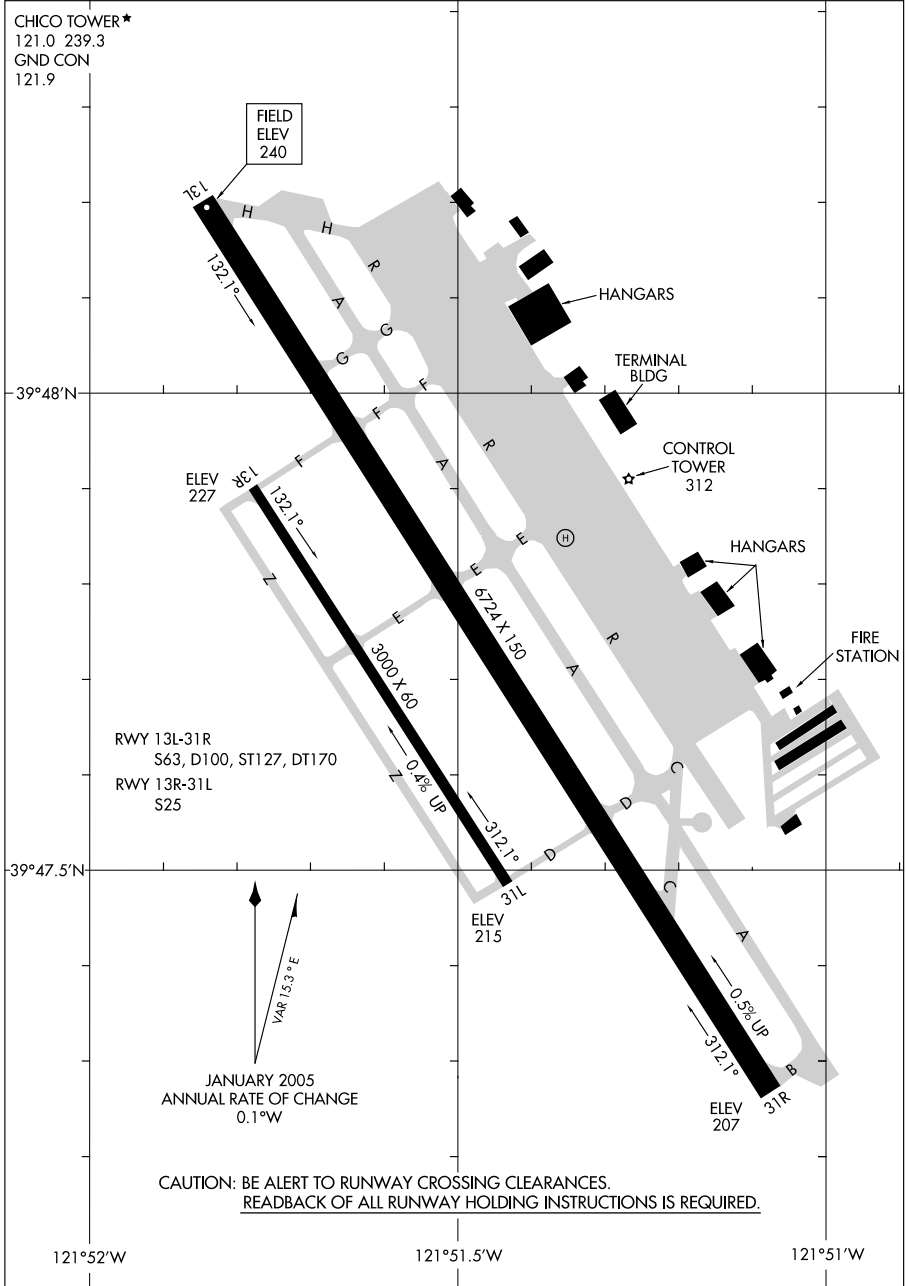
CHANDLER, ARIZONA
CHANDLER MUNI (CHD)

08157

AIRPORT DIAGRAM

AL-557 (FAA)

CHICO MUNI (CIC)
CHICO, CALIFORNIA



AIRPORT DIAGRAM

08157

CHICO, CALIFORNIA
CHICO MUNI (CIC)

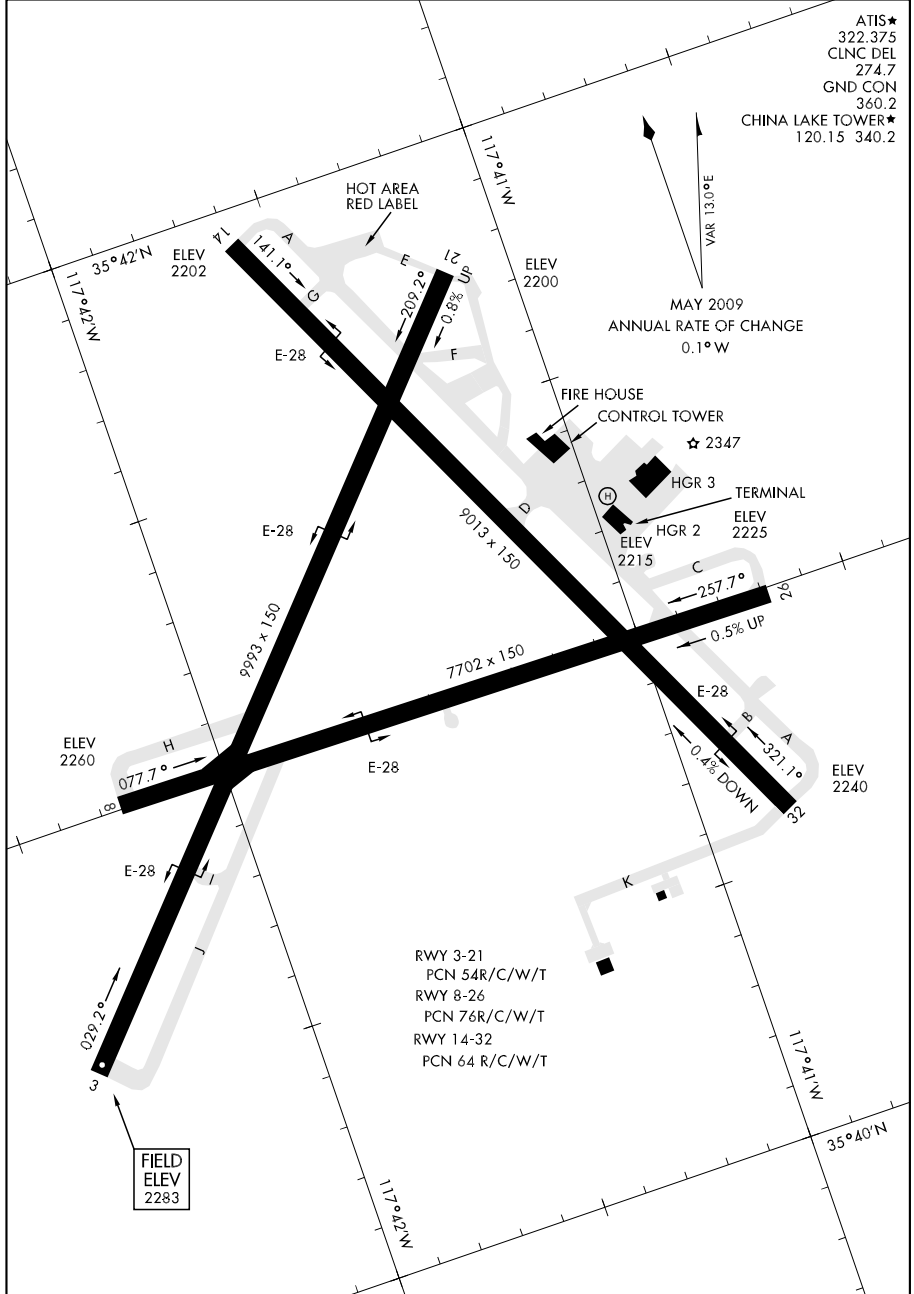
09127

AIRPORT DIAGRAM

CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

AFD-914 [USN]

RIDGECREST, CALIFORNIA



AIRPORT DIAGRAM

RIDGECREST, CALIFORNIA

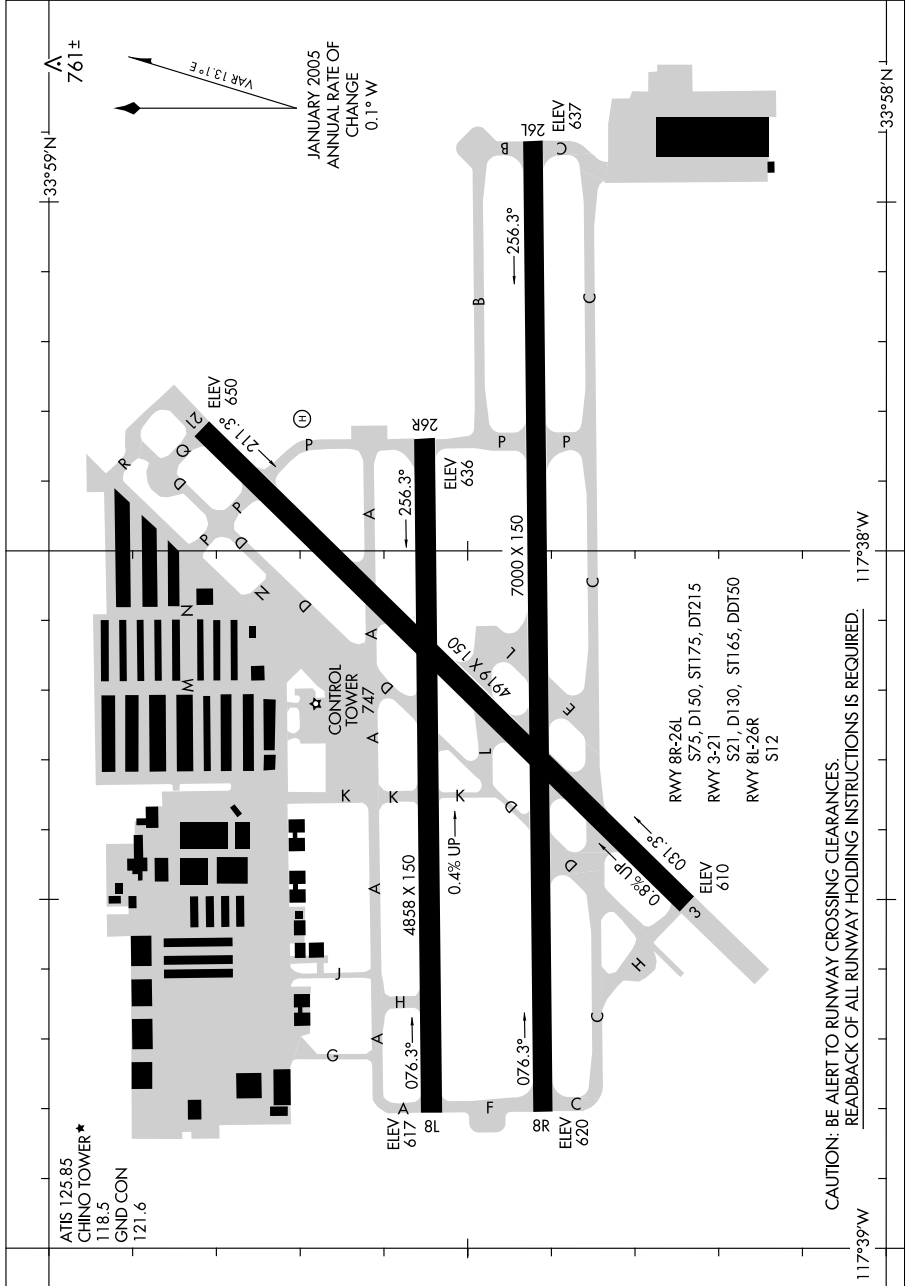
CHINA LAKE NAWS (ARMITAGE FIELD) (KNID)

07354

AIRPORT DIAGRAM

AL-5599 (FAA)

CHINO (CNO)
CHINO, CALIFORNIA



AIRPORT DIAGRAM

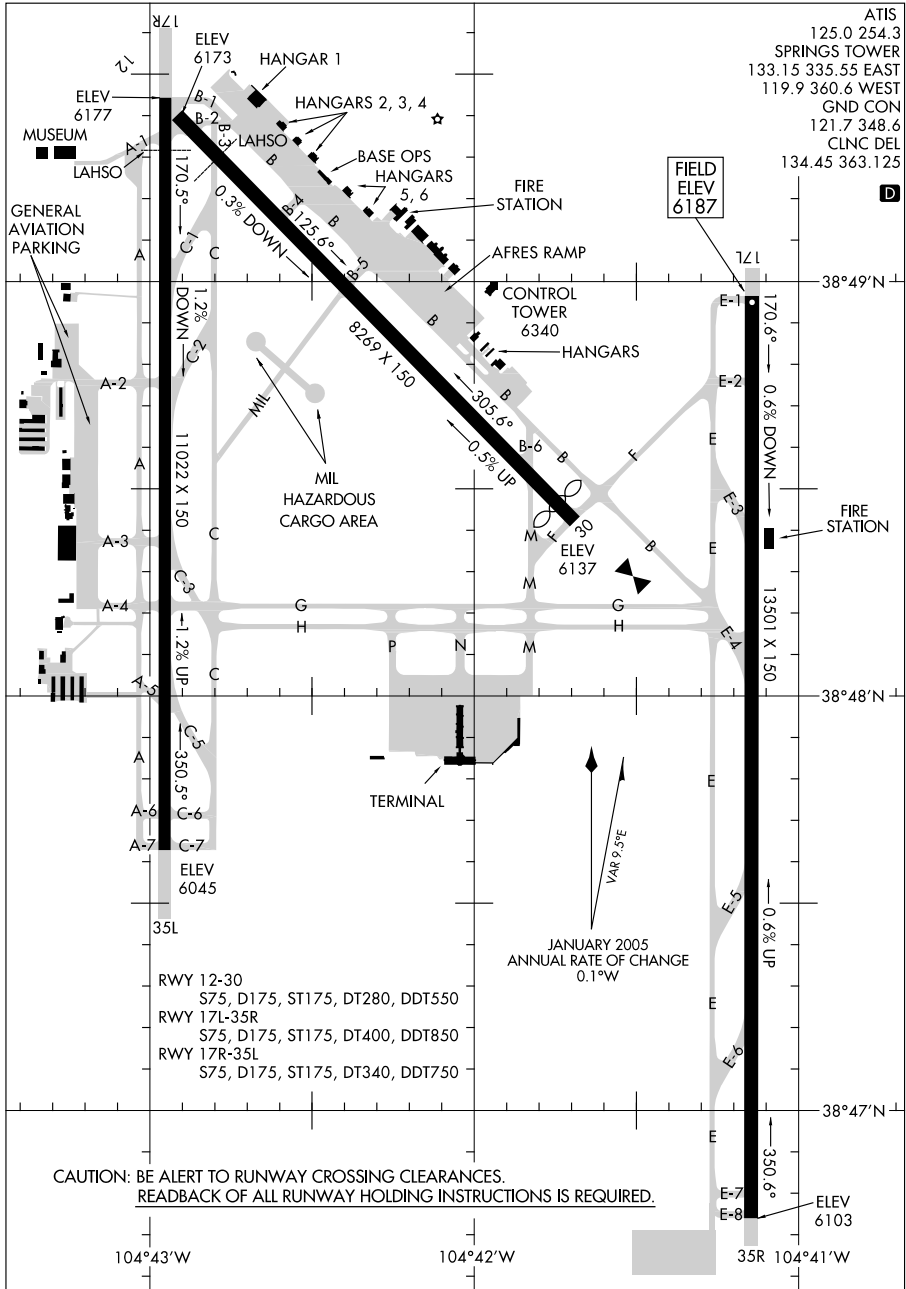
07354

CHINO, CALIFORNIA
CHINO (CNO)

09351

AIRPORT DIAGRAM

COLORADO SPRINGS/ CITY OF COLORADO SPRINGS MUNI (COS)
AL-87 (FAA)
COLORADO SPRINGS, COLORADO



AIRPORT DIAGRAM

COLORADO SPRINGS, COLORADO
COLORADO SPRINGS/ CITY OF COLORADO SPRINGS MUNI (COS)

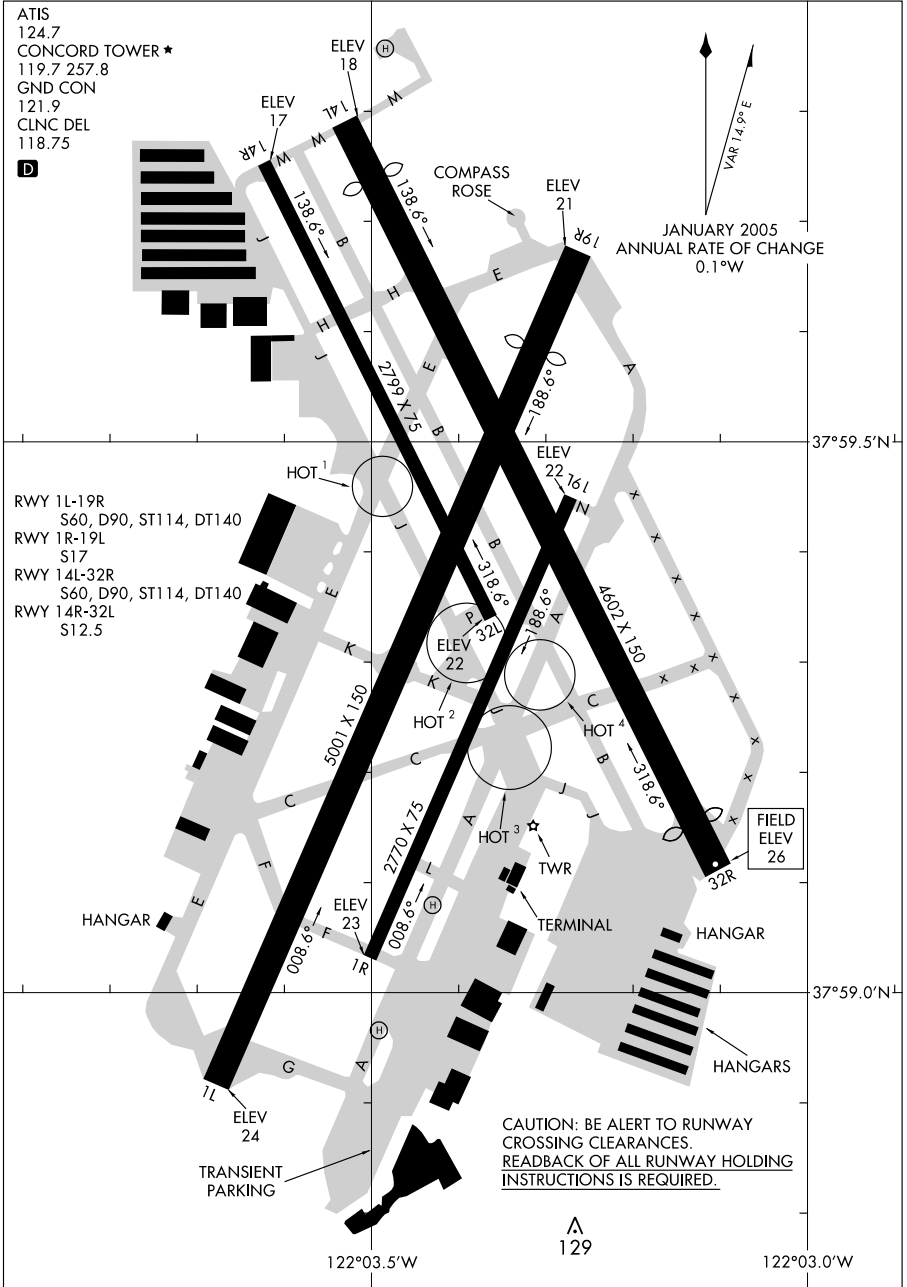
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10042

AIRPORT DIAGRAM

AL-5320 (FAA)

CONCORD/BUCHANAN FIELD (CCR)
CONCORD, CALIFORNIA



AIRPORT DIAGRAM

10042

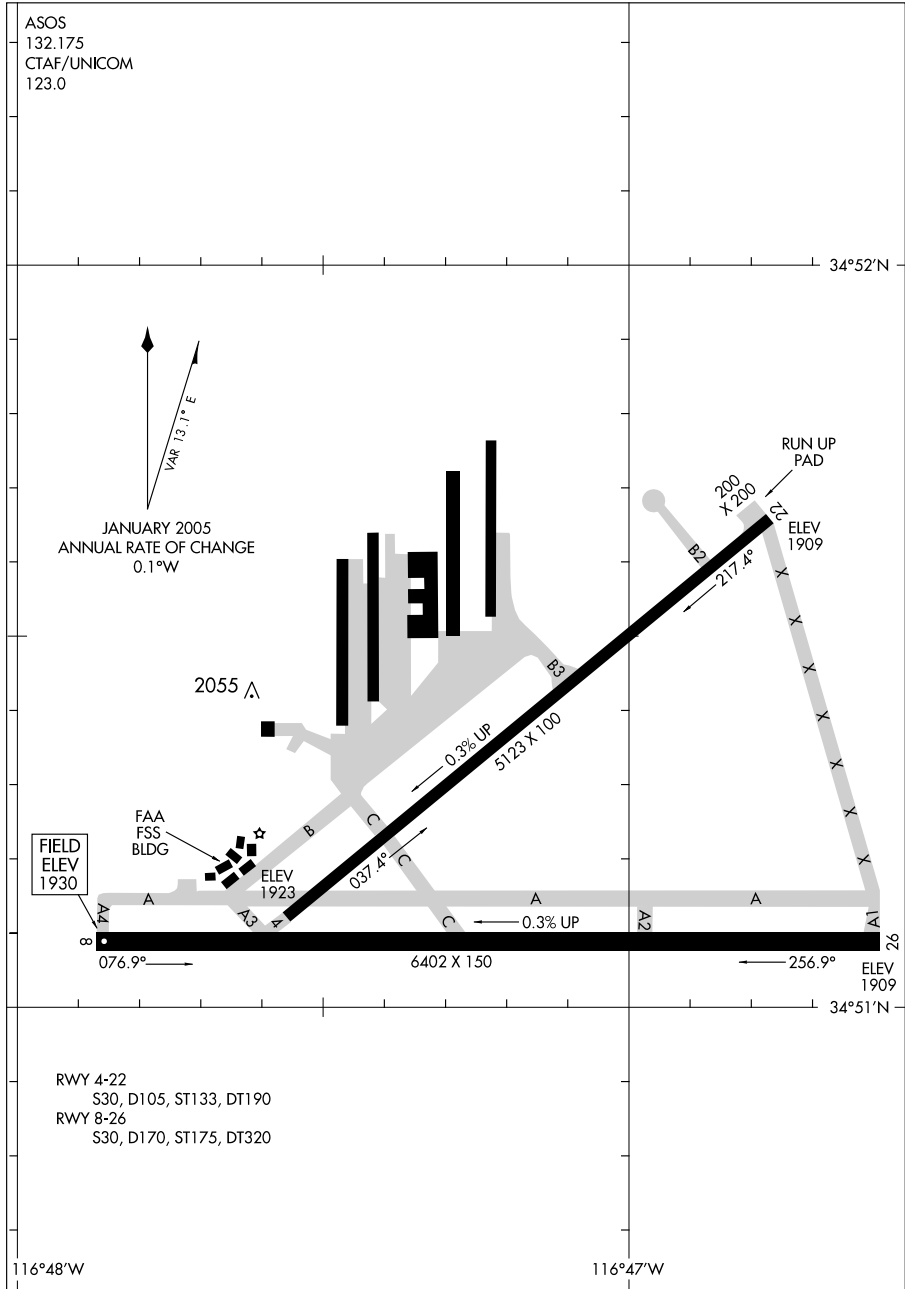
CONCORD, CALIFORNIA
CONCORD/BUCHANAN FIELD (CCR)

09239

AIRPORT DIAGRAM

AL-104 (FAA)

DAGGETT/BARSTOW-DAGGETT (DAG)
DAGGETT, CALIFORNIA



AIRPORT DIAGRAM

09239

DAGGETT, CALIFORNIA
DAGGETT/BARSTOW-DAGGETT (DAG)

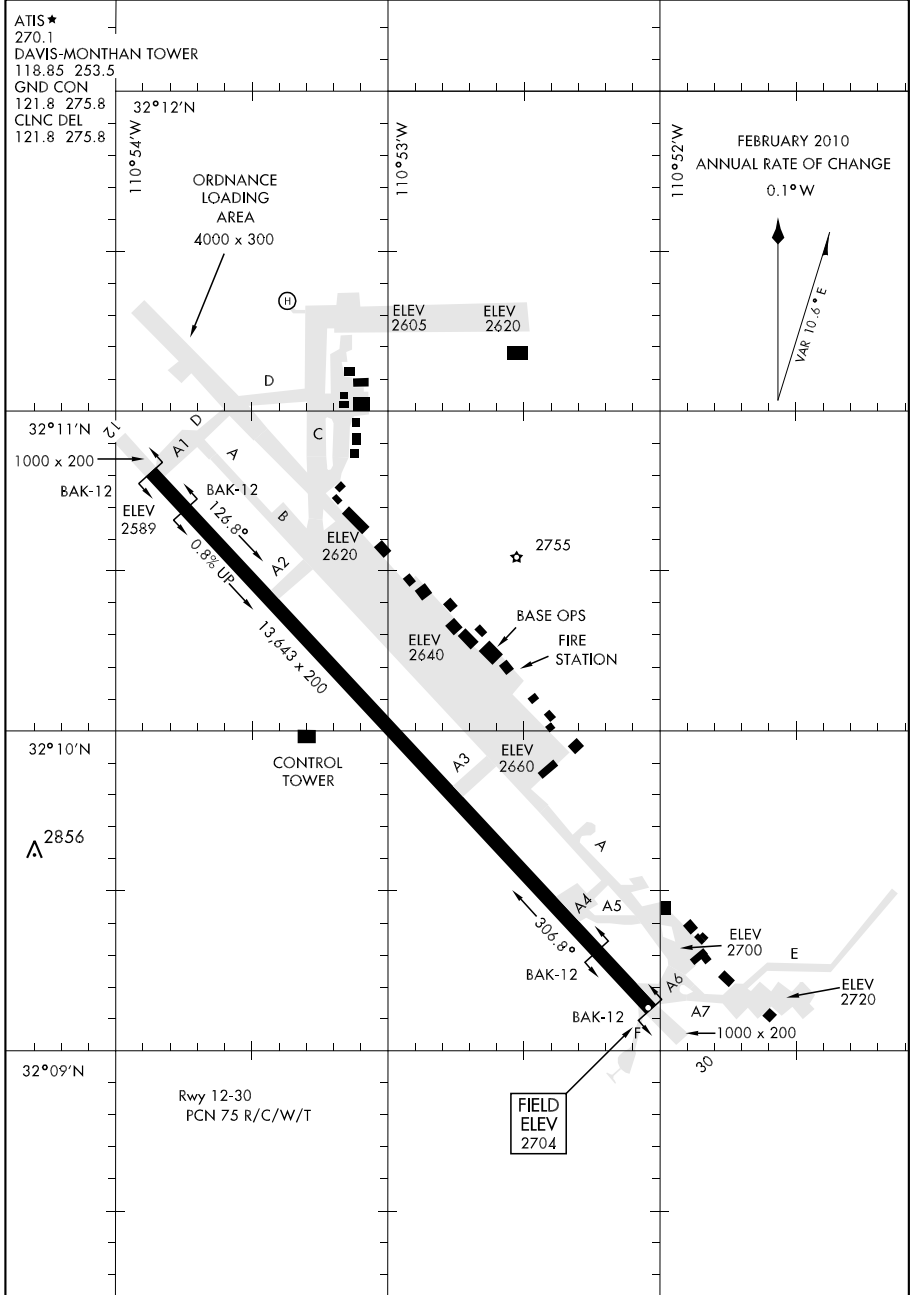
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DAVIS-MONTHAN AFB (KDMA)

AIRPORT DIAGRAM

AFD-429 [USAF]

TUCSON, ARIZONA



AIRPORT DIAGRAM

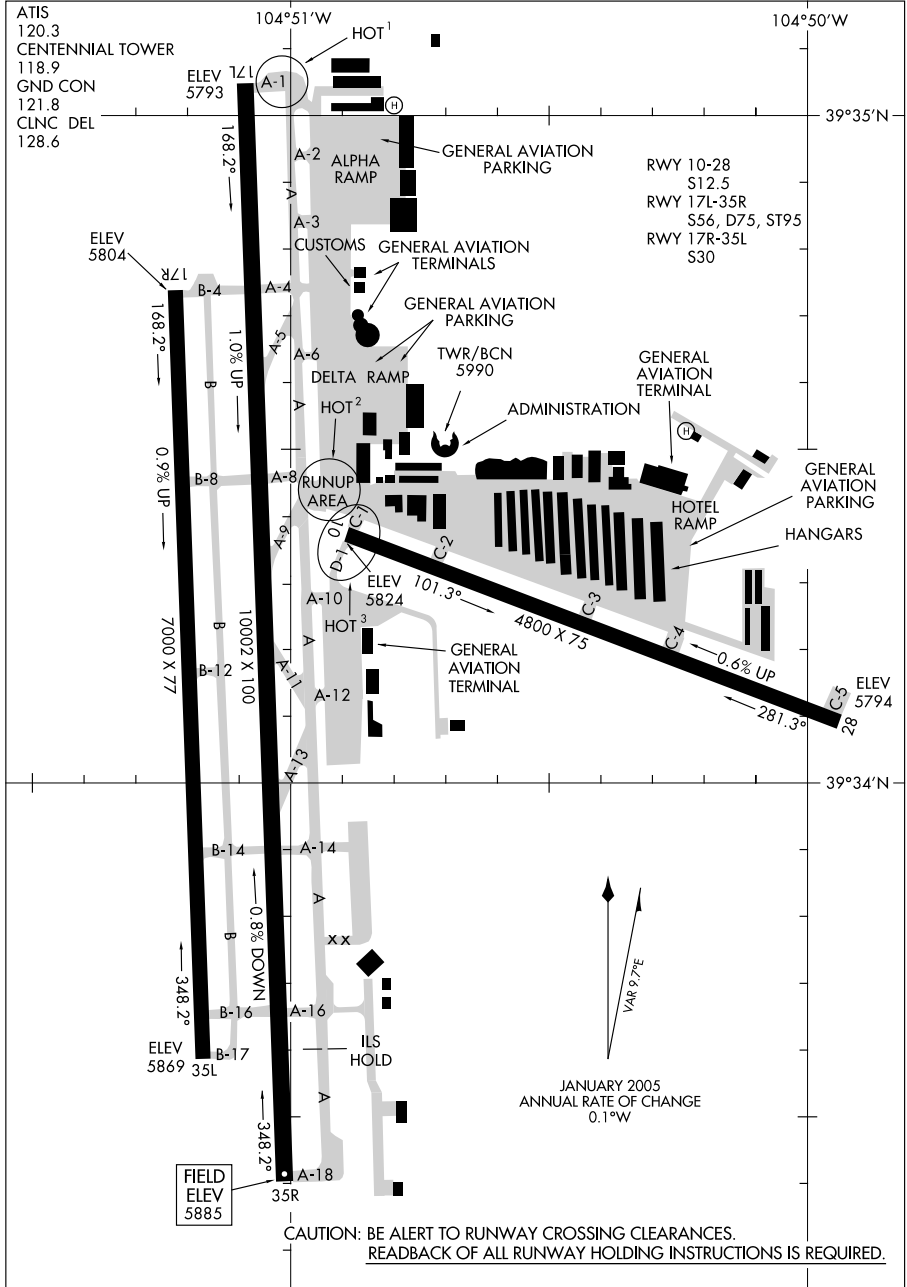
TUCSON, ARIZONA
DAVIS-MONTHAN AFB (KDMA)

10098

AIRPORT DIAGRAM

AL-5715 (FAA)

DENVER/CENTENNIAL (APA)
DENVER, COLORADO



AIRPORT DIAGRAM

DENVER, COLORADO
DENVER/CENTENNIAL (APA)

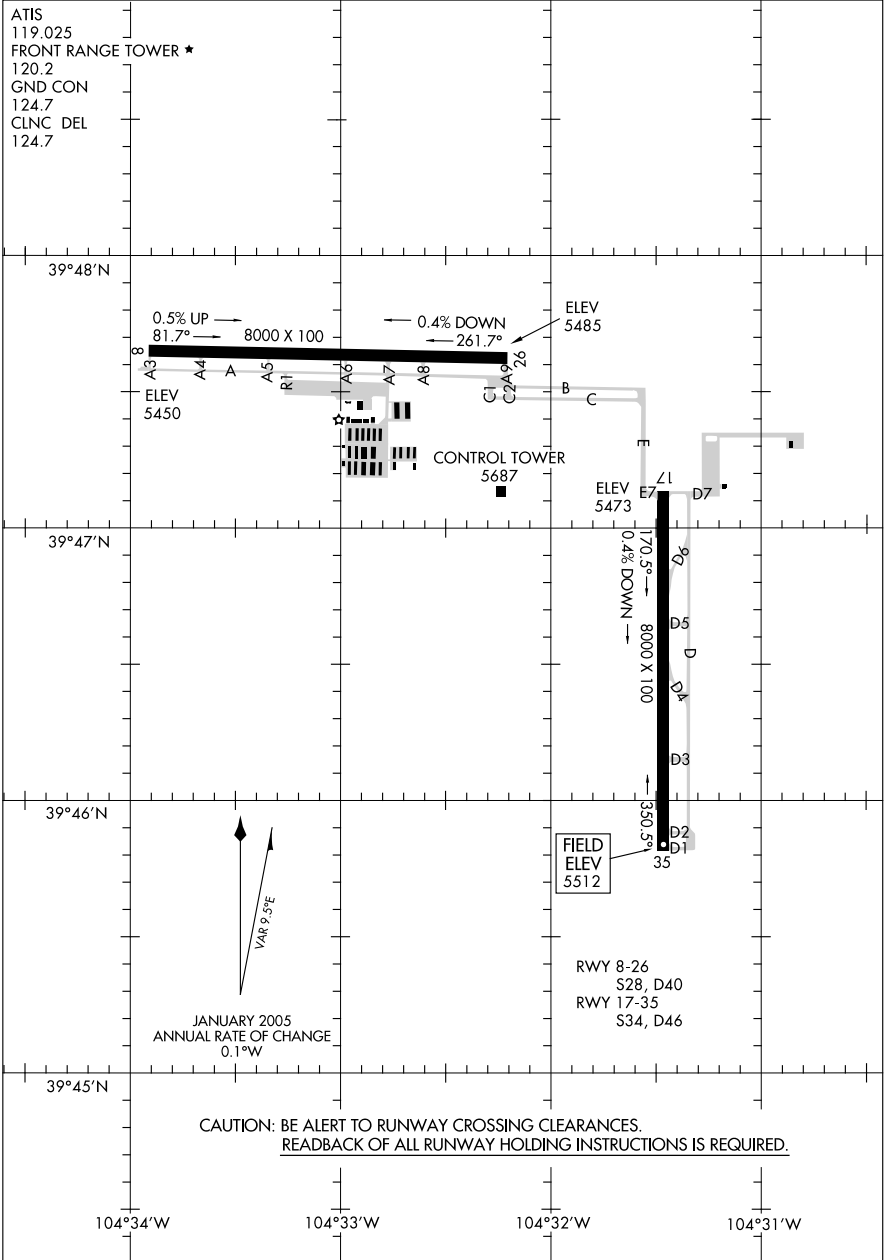
10098

09015

AIRPORT DIAGRAM

AL-6851 (FAA)

DENVER/FRONT RANGE (F'TG)
DENVER, COLORADO



AIRPORT DIAGRAM

DENVER/FRONT RANGE (F'TG)
DENVER, COLORADO

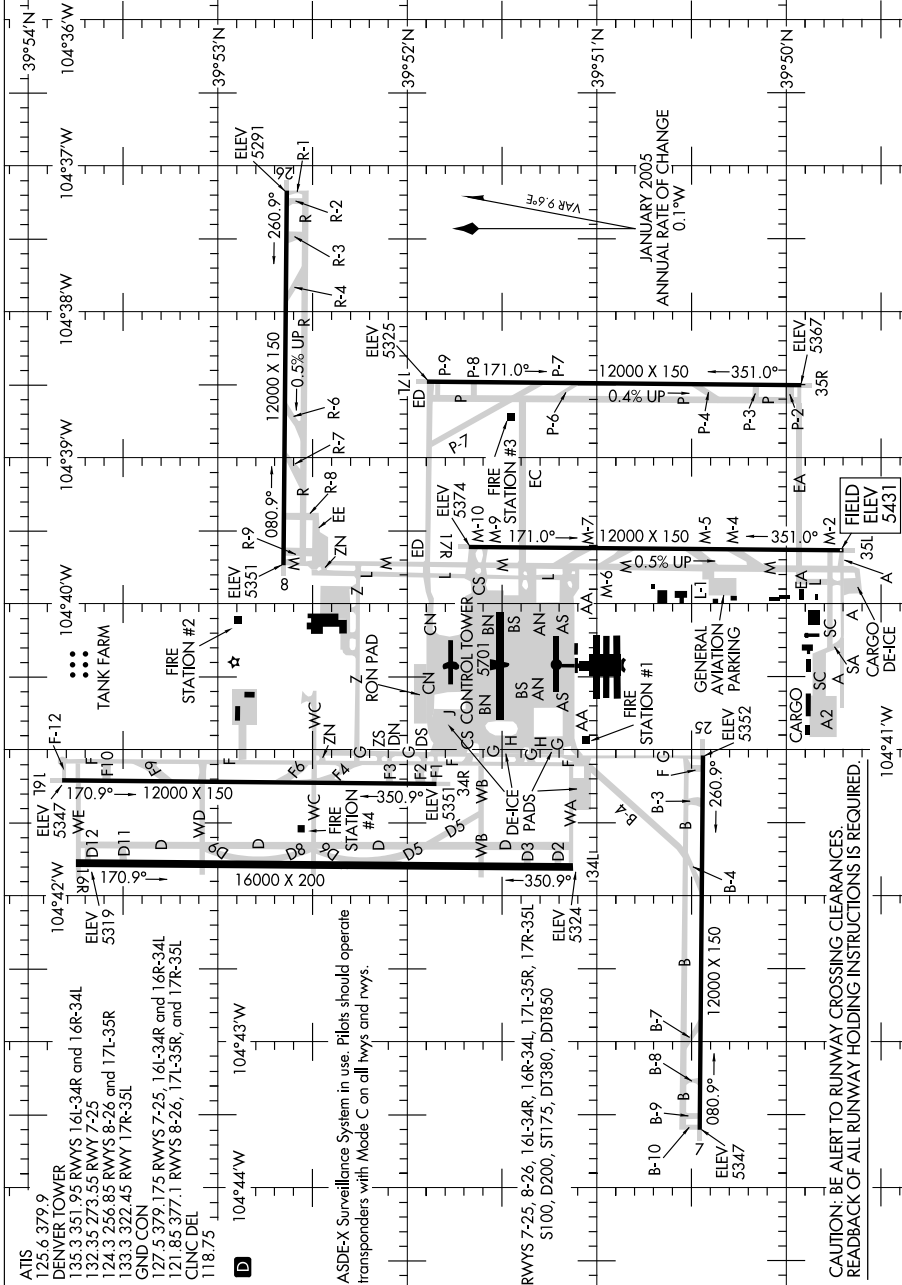
09015

09351

AIRPORT DIAGRAM

AL-9077 (FAA)

DENVER INTL (DEN)
DENVER, COLORADO



AIRPORT DIAGRAM

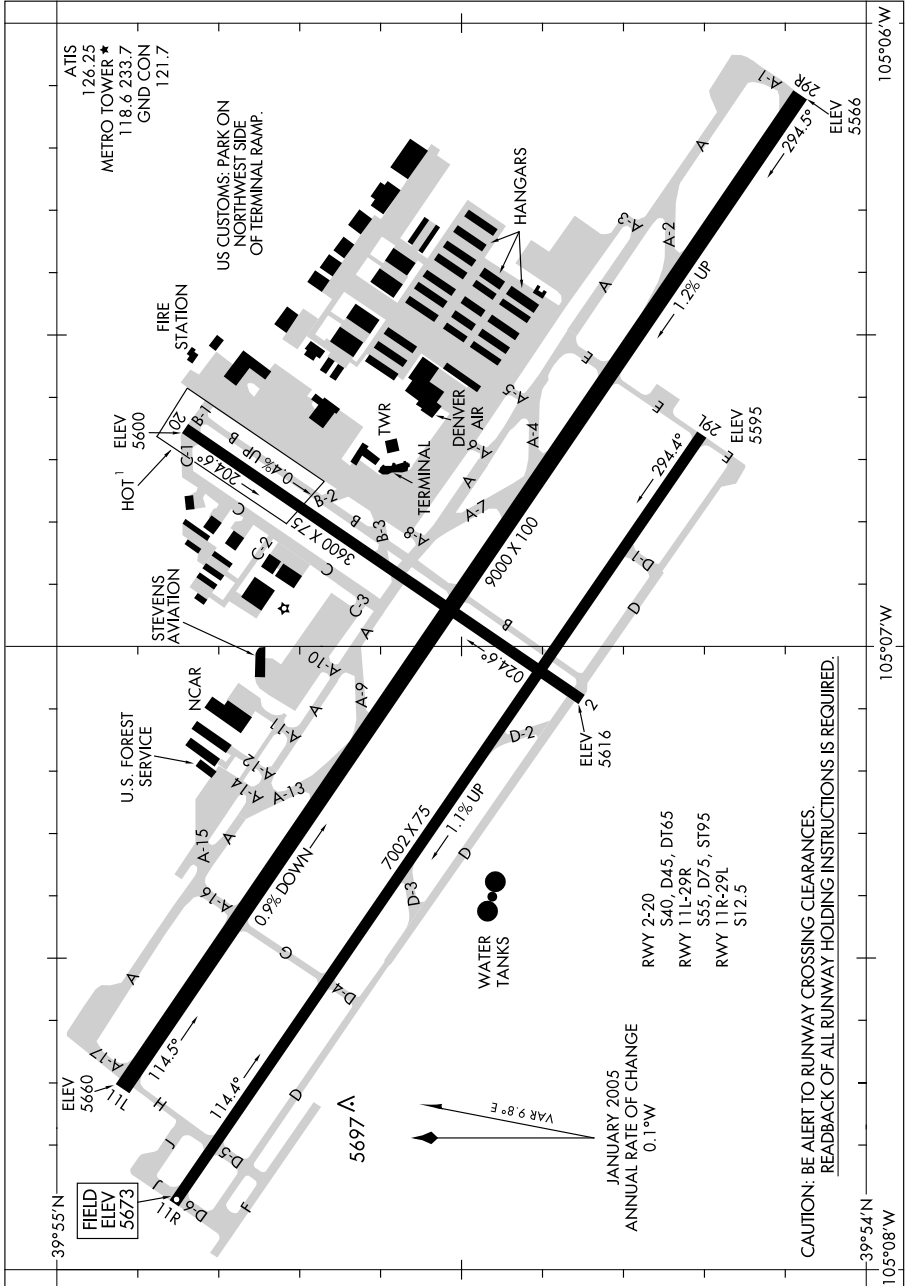
09351

DENVER, COLORADO
DENVER INTL (DEN)

10098

AIRPORT DIAGRAM

DENVER/ROCKY MOUNTAIN METROPOLITAN (B.J.C)
AL-5612 (FAA)
DENVER, COLORADO



AIRPORT DIAGRAM

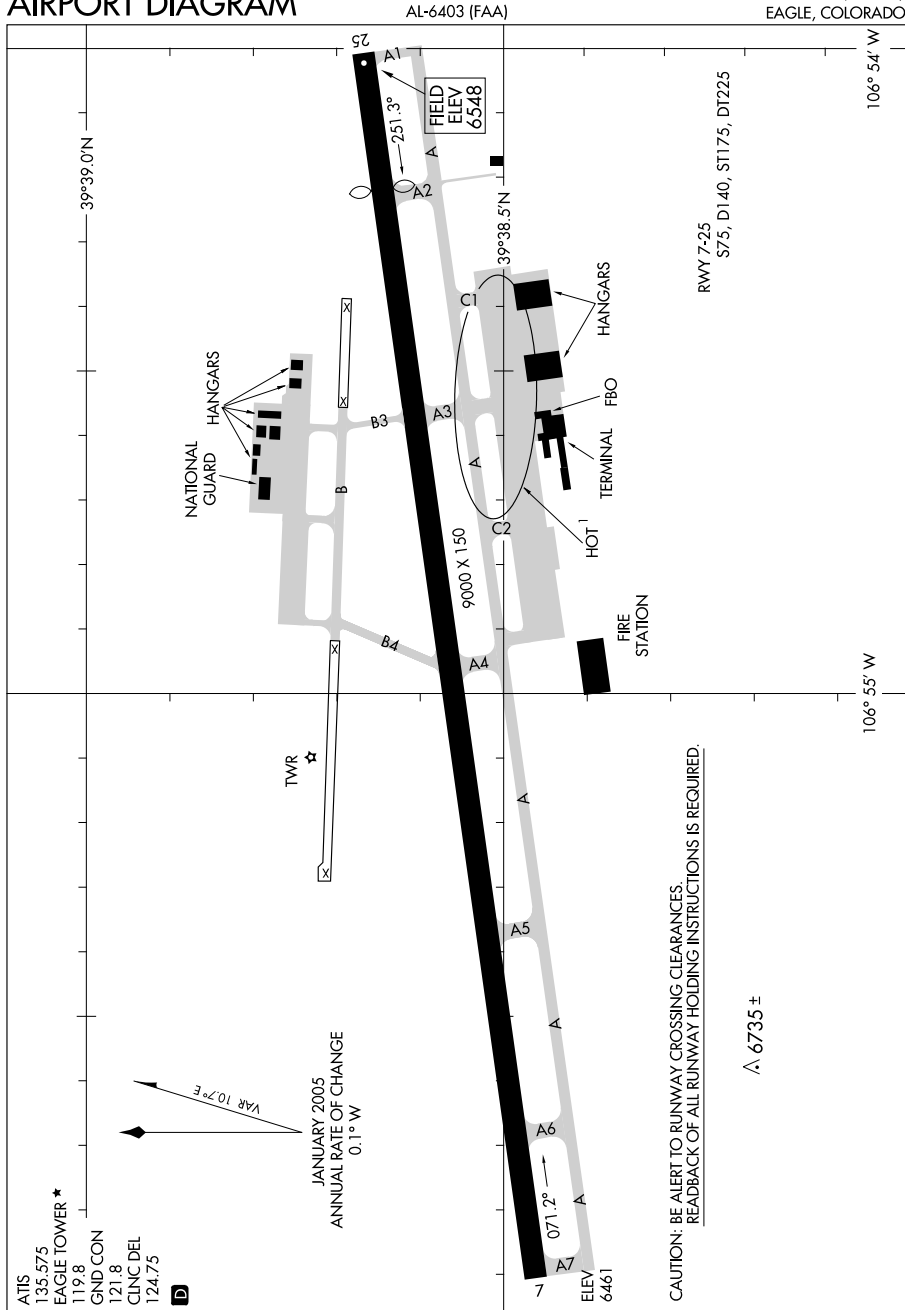
10098

DENVER, COLORADO
DENVER/ROCKY MOUNTAIN METROPOLITAN (B.J.C)

10042

AIRPORT DIAGRAM

EAGLE COUNTY RGNL (EGE)
EAGLE, COLORADO



AIRPORT DIAGRAM

10042

EAGLE, COLORADO
EAGLE COUNTY RGNL (EGE)

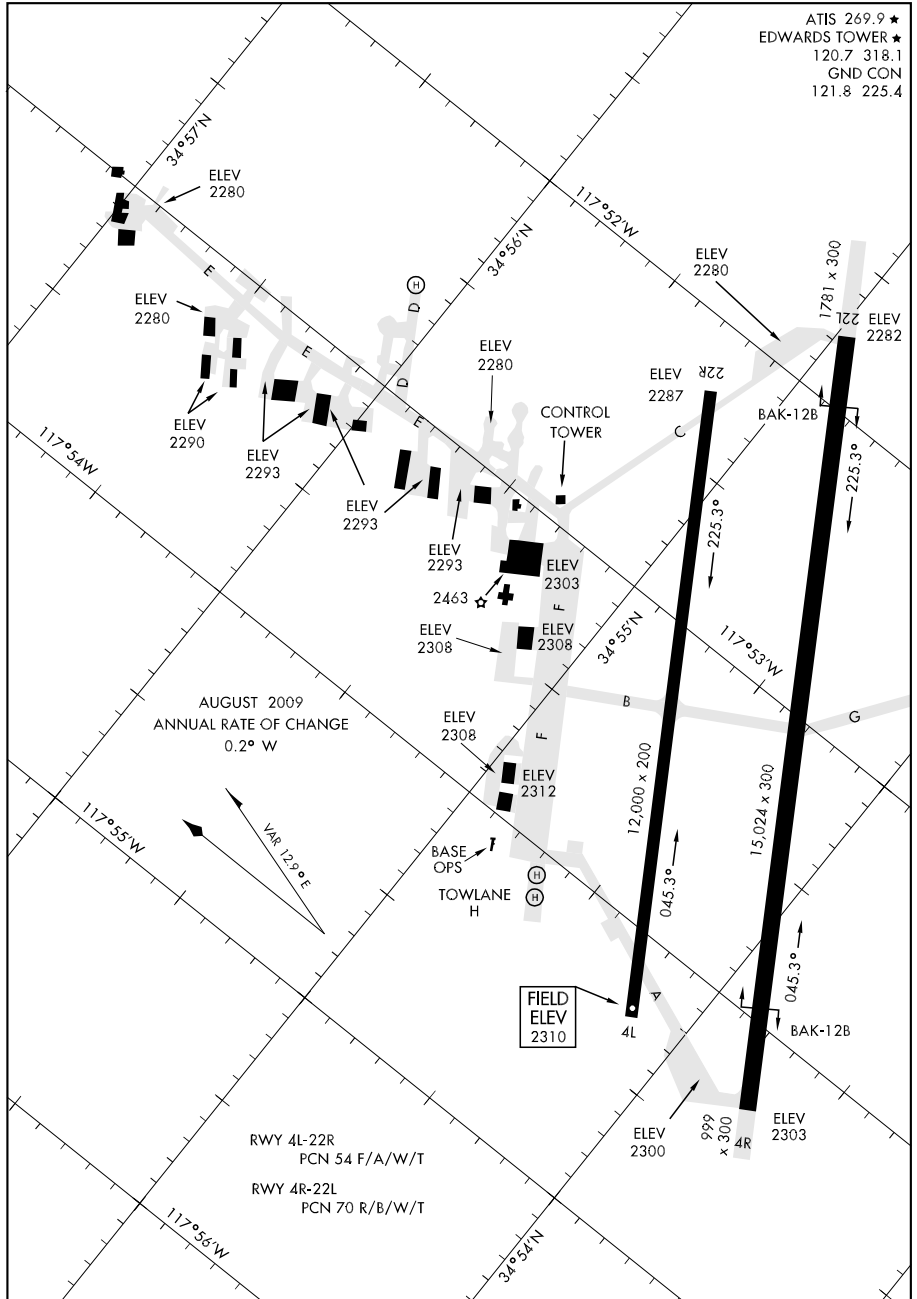
09239

AIRPORT DIAGRAM

AFD-500 [USAF]

EDWARDS AFB (KEDW)

EDWARDS, CALIFORNIA



AIRPORT DIAGRAM

EDWARDS, CALIFORNIA
EDWARDS AFB (KEDW)

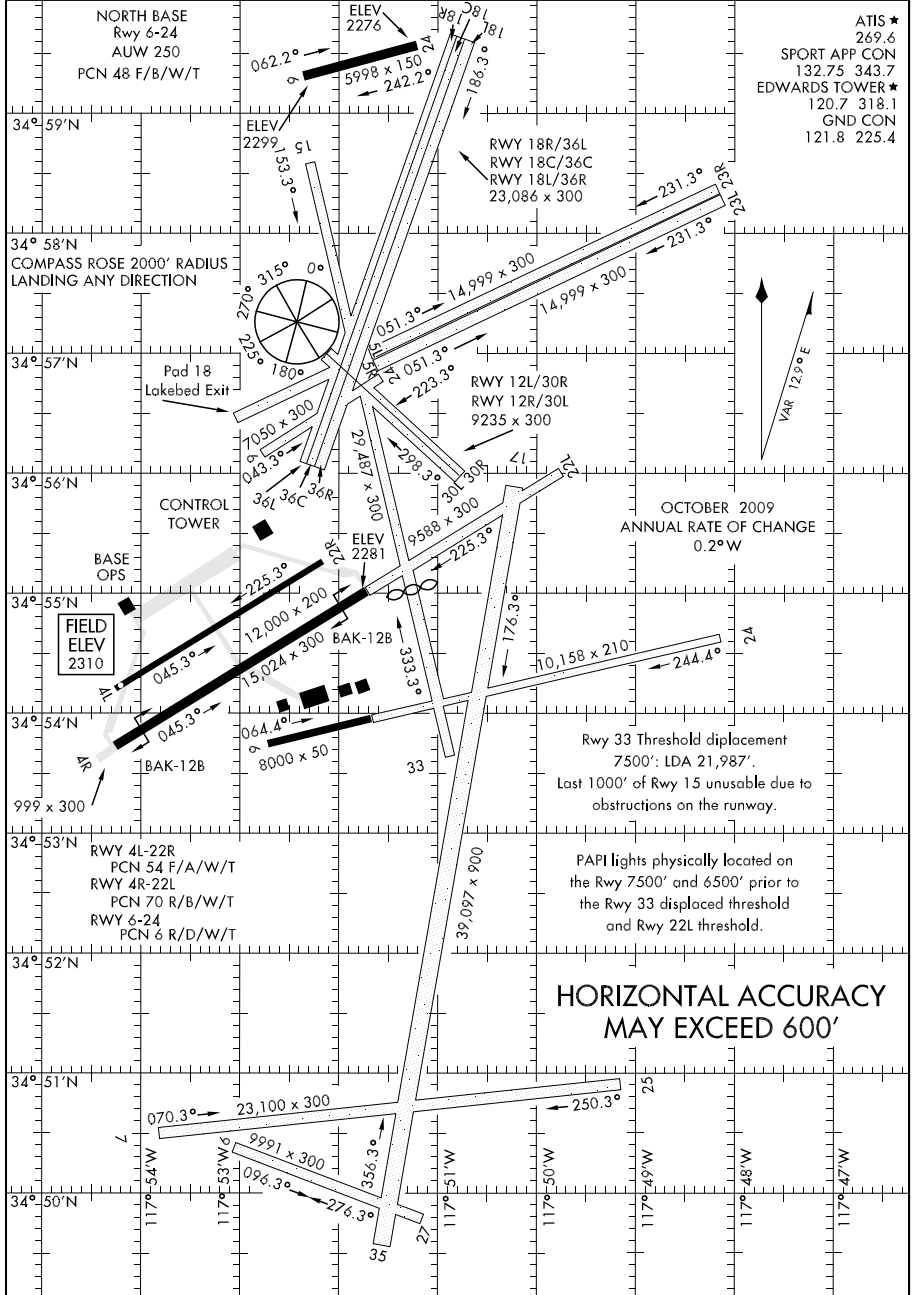
09295

EDWARDS/ROGERS LAKEBED (KEDW)

AIRPORT DIAGRAM

AFD-500 [USAF]

EDWARDS, CALIFORNIA



AIRPORT DIAGRAM

EDWARDS, CALIFORNIA

EDWARDS/ROGERS LAKEBED (KEDW)

07354

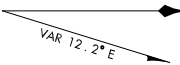
AIRPORT DIAGRAM

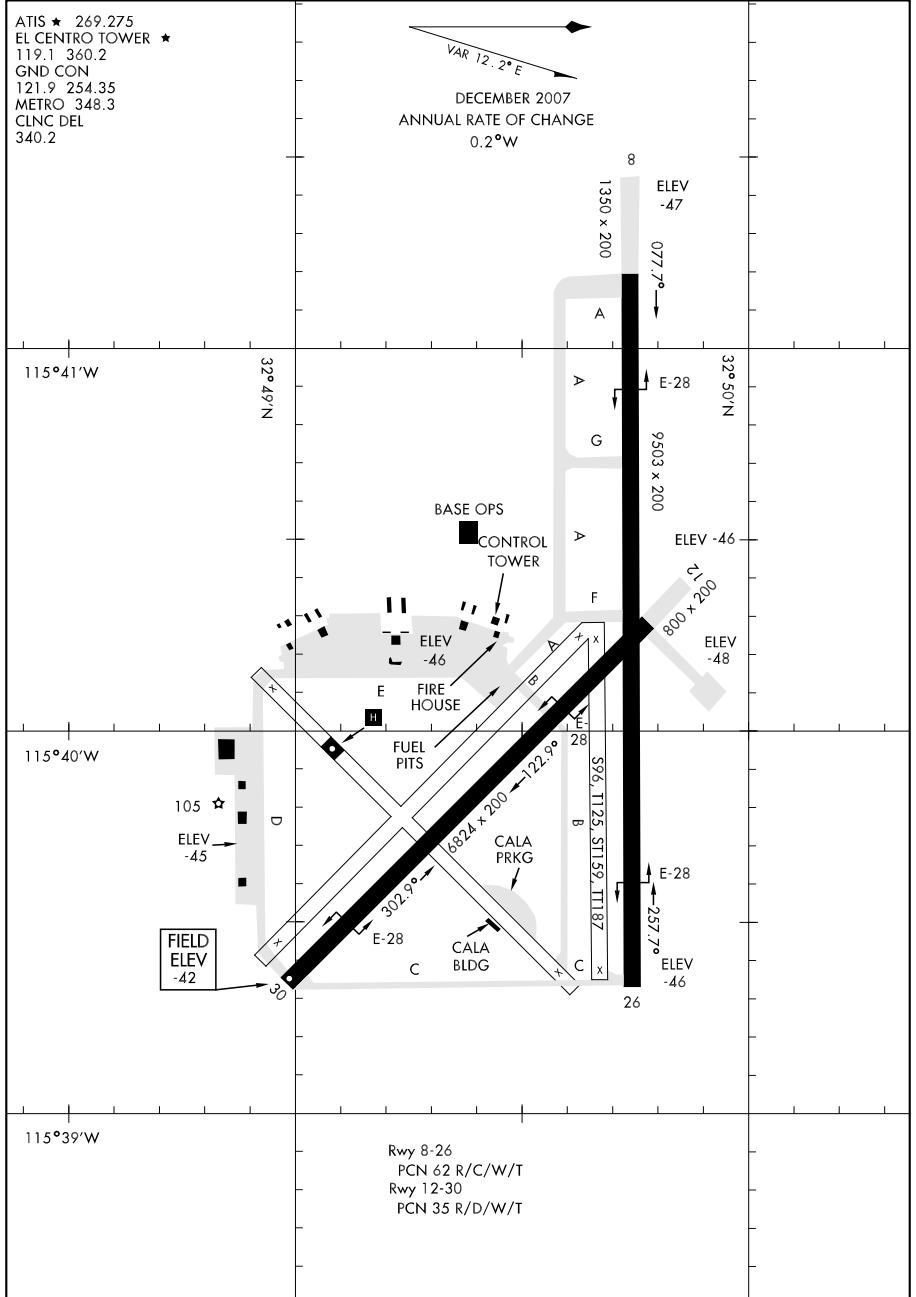
AFD-472 [USN]

EL CENTRO NAF (KNJK)

EL CENTRO, CALIFORNIA

ATIS ★ 269.275
 EL CENTRO TOWER ★
 119.1 360.2
 GND CON
 121.9 254.35
 METRO 348.3
 CLNC DEL
 340.2


 DECEMBER 2007
 ANNUAL RATE OF CHANGE
 0.2° W



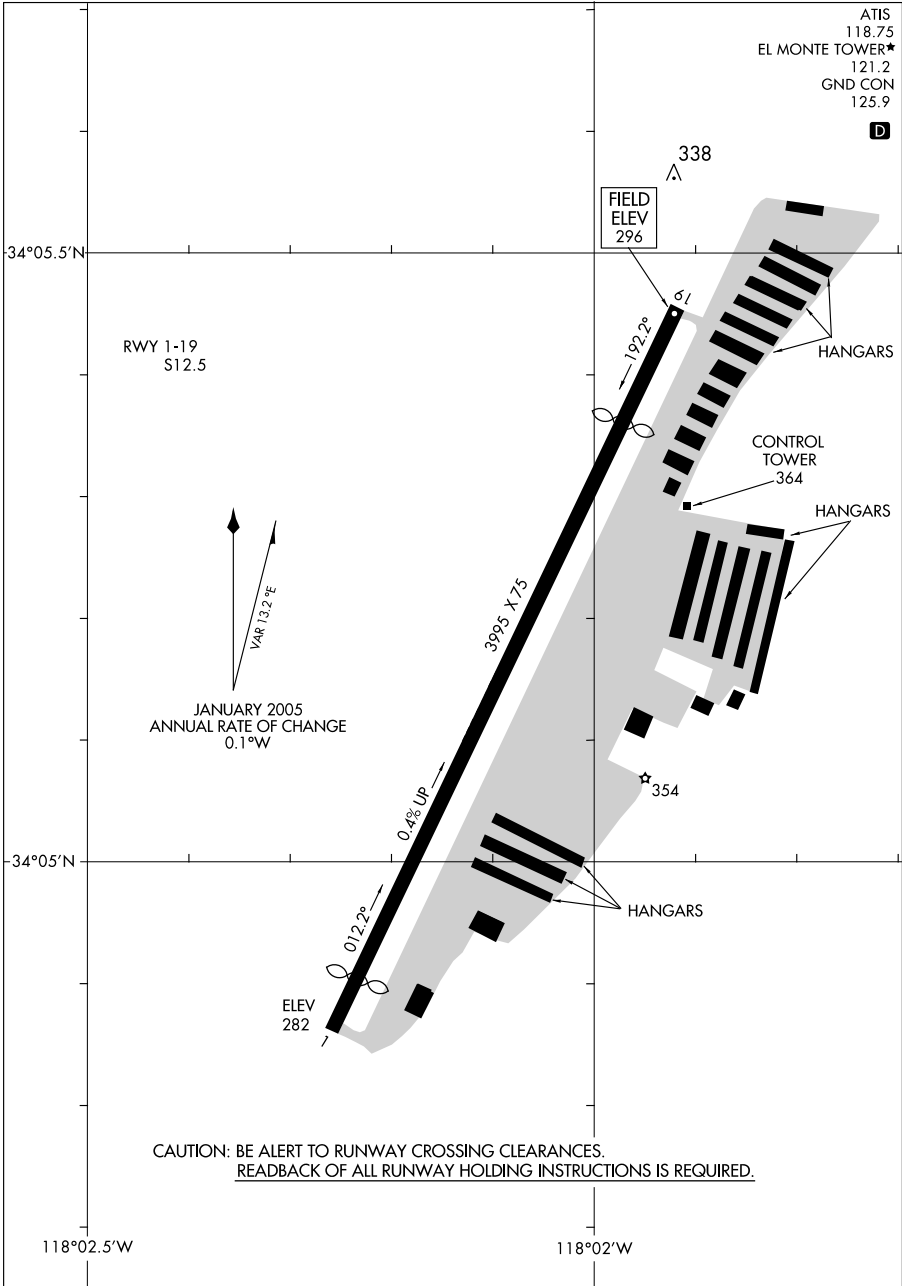
AIRPORT DIAGRAM

EL CENTRO, CALIFORNIA
EL CENTRO NAF (KNJK)

09071
AIRPORT DIAGRAM

AL-5639 (FAA)

EL MONTE (EMT)
EL MONTE, CALIFORNIA



AIRPORT DIAGRAM
09071

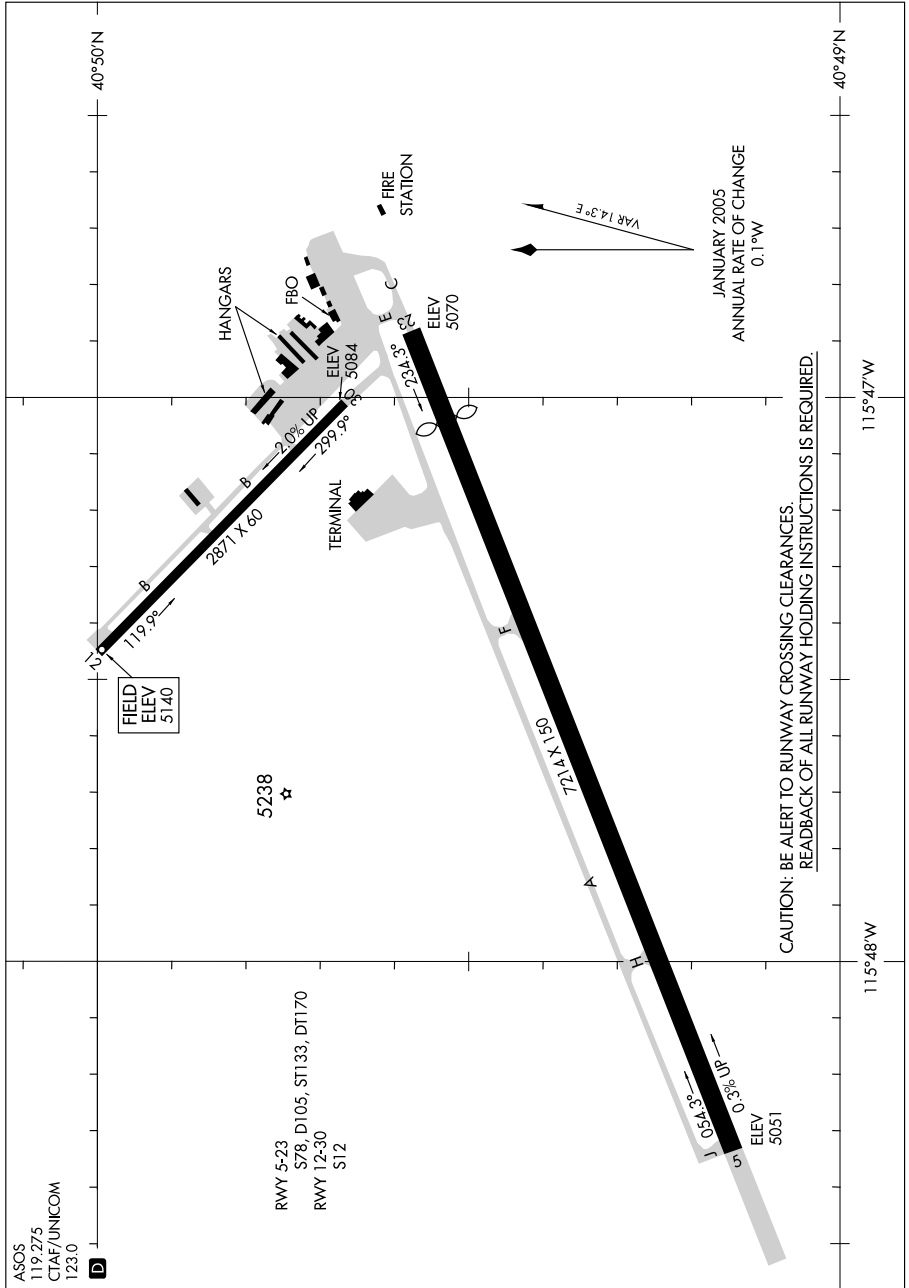
EL MONTE, CALIFORNIA
EL MONTE (EMT)

09071

AIRPORT DIAGRAM

AL-129 (FAA)

ELKO RGNL (EKO)
ELKO, NEVADA



AIRPORT DIAGRAM

09071

ELKO, NEVADA
ELKO RGNL (EKO)

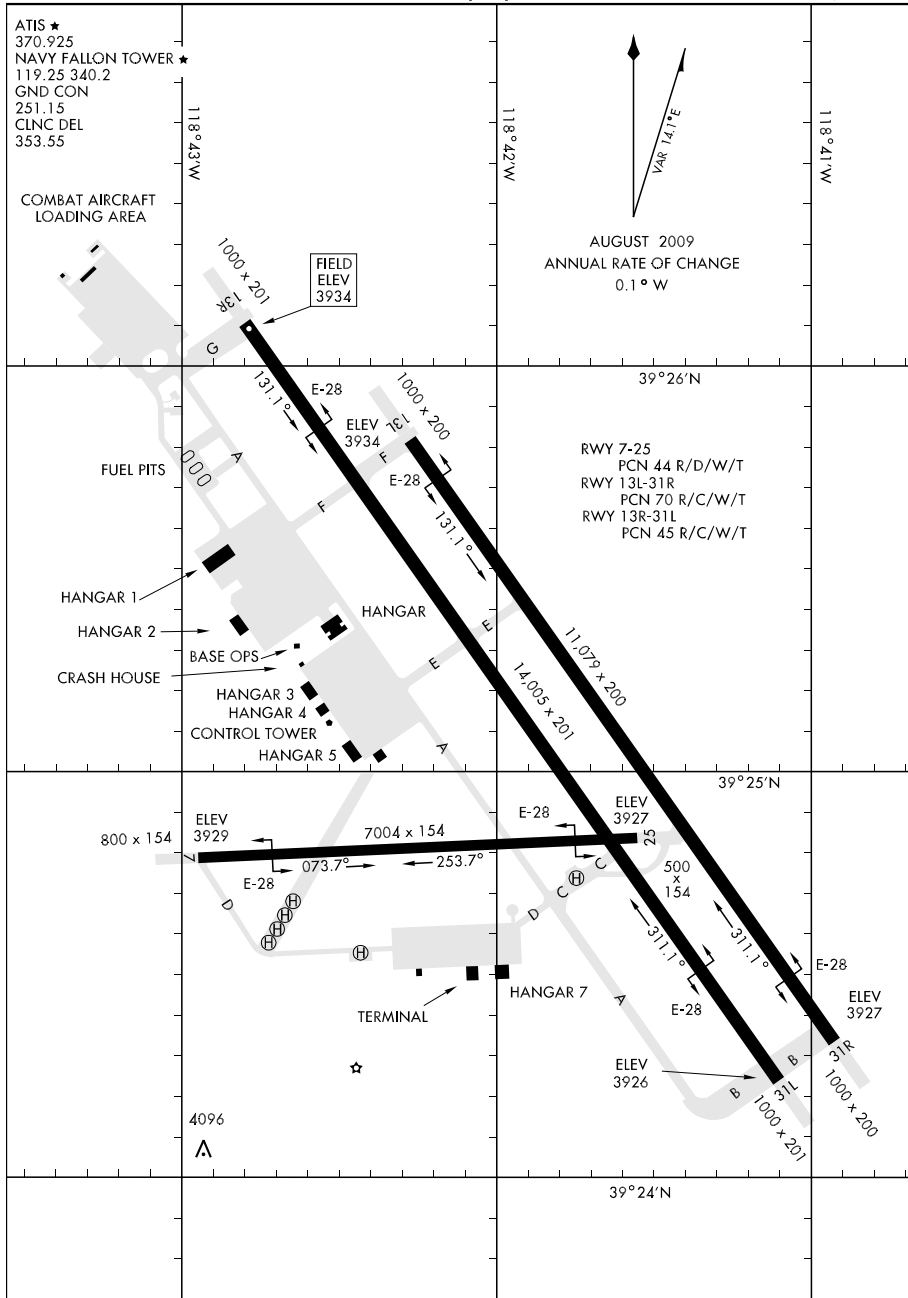
09267

AIRPORT DIAGRAM

AFD-143 [USN]

FALLON NAS (VAN VOORHIS FIELD) (KNFL)

FALLON, NEVADA



AIRPORT DIAGRAM

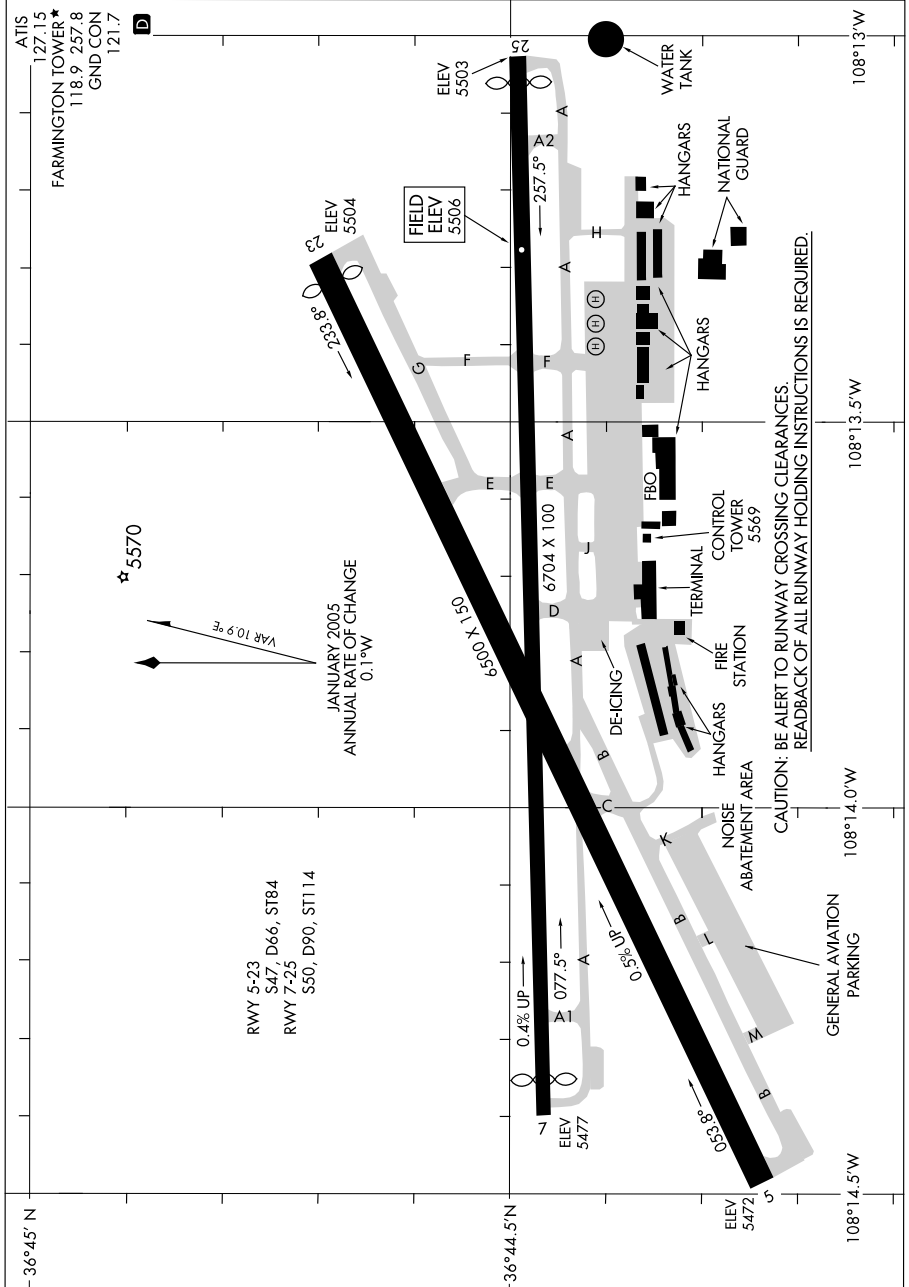
FALLON, NEVADA

FALLON NAS (VAN VOORHIS FIELD) (KNFL)

09351

AIRPORT DIAGRAM

FARMINGTON/ FOUR CORNERS RGNL (FMN)
AL-493 (FAA) FARMINGTON, NEW MEXICO



AIRPORT DIAGRAM

FARMINGTON, NEW MEXICO
FARMINGTON/ FOUR CORNERS RGNL (FMN)

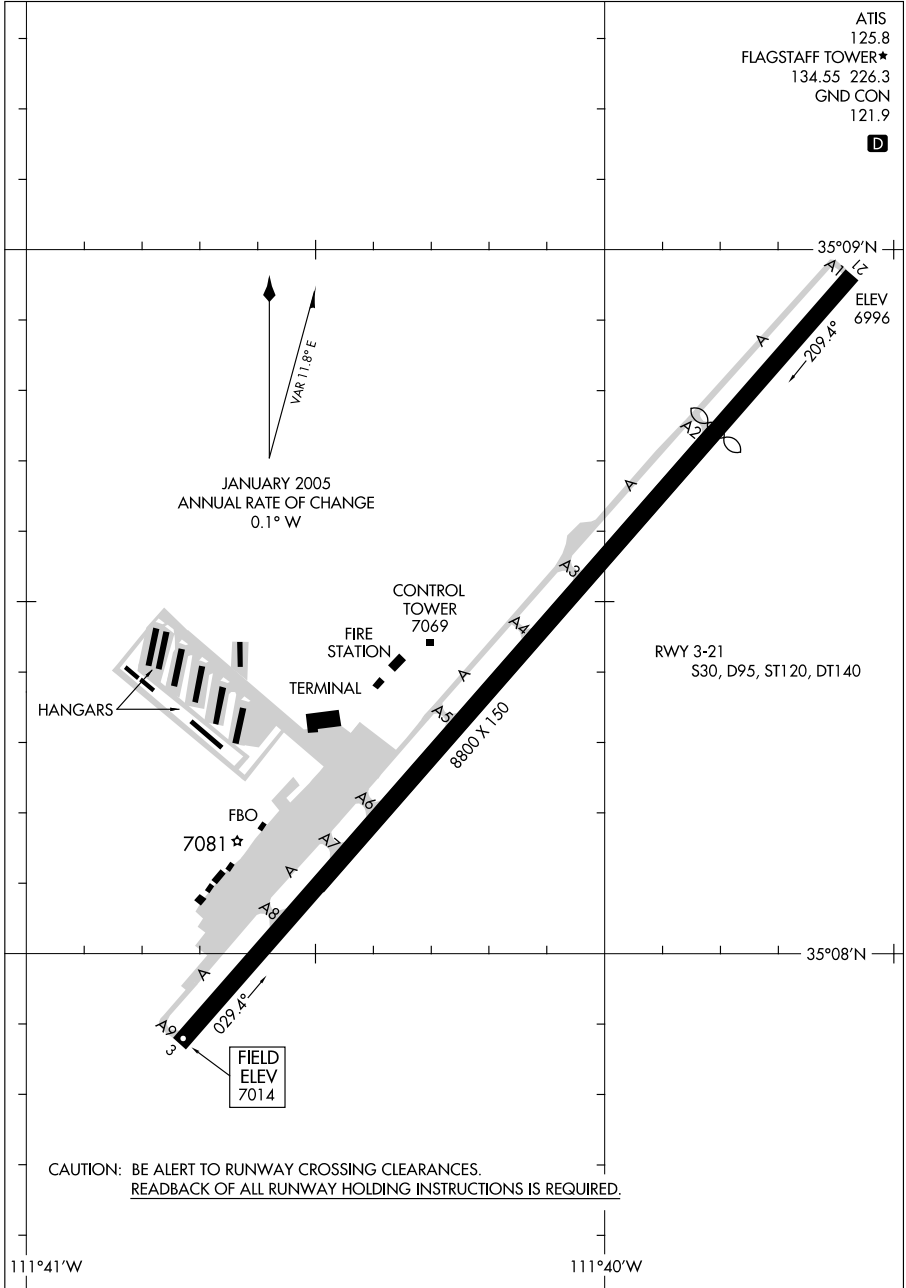
09351

09239

AIRPORT DIAGRAM

AL-5034 (FAA)

FLAGSTAFF PULLIAM (FLG)
FLAGSTAFF, ARIZONA



AIRPORT DIAGRAM

09239

FLAGSTAFF, ARIZONA
FLAGSTAFF PULLIAM (FLG)

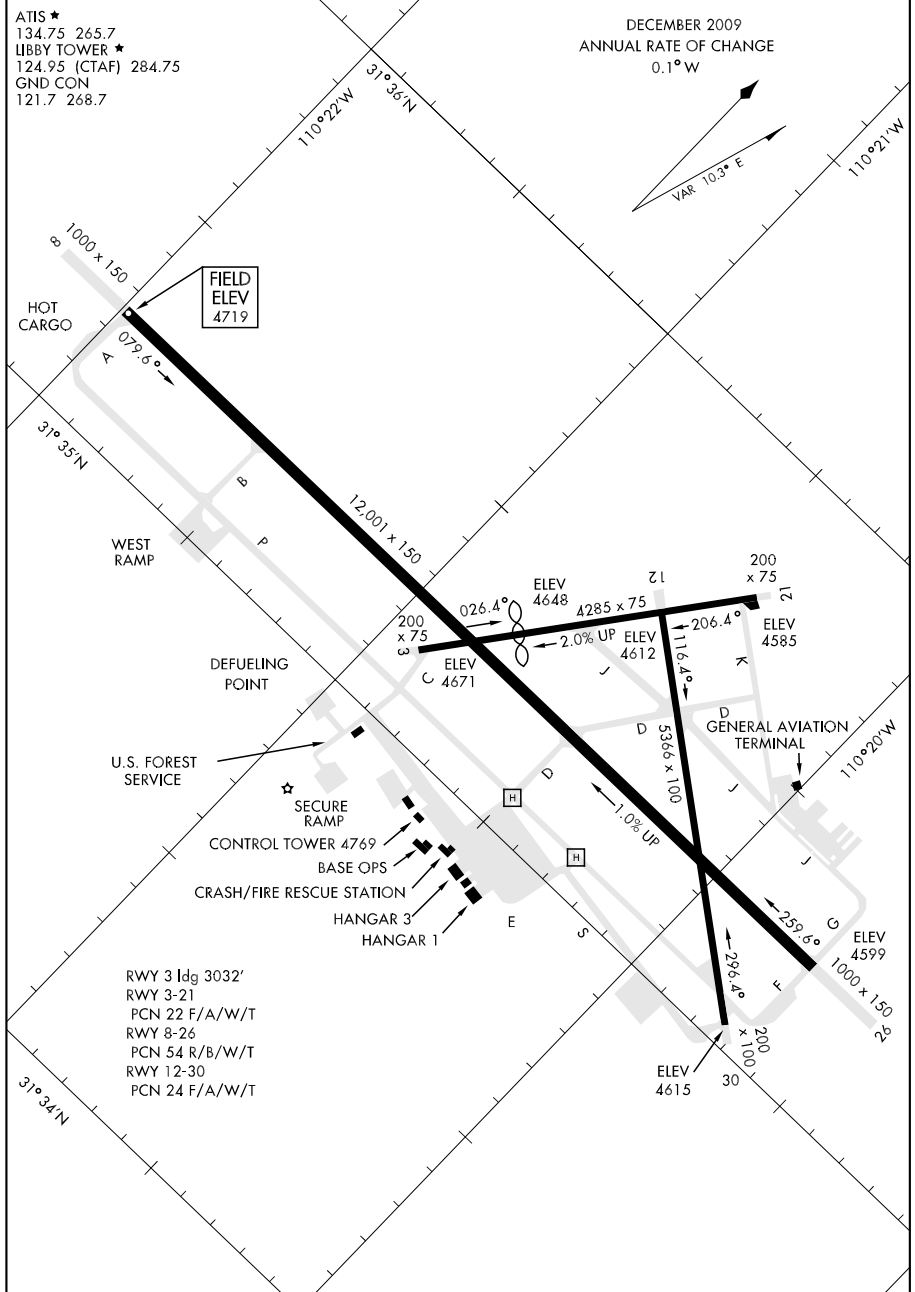
09351

FORT HUACHUCA-SIERRA VISTA/SIERRA VISTA MUNI-LIBBY AAF (KFHU)

AIRPORT DIAGRAM

AFD-5081 [USA]

FORT HUACHUCA/SIERRA VISTA, ARIZONA



AIRPORT DIAGRAM

FORT HUACHUCA/SIERRA VISTA, ARIZONA

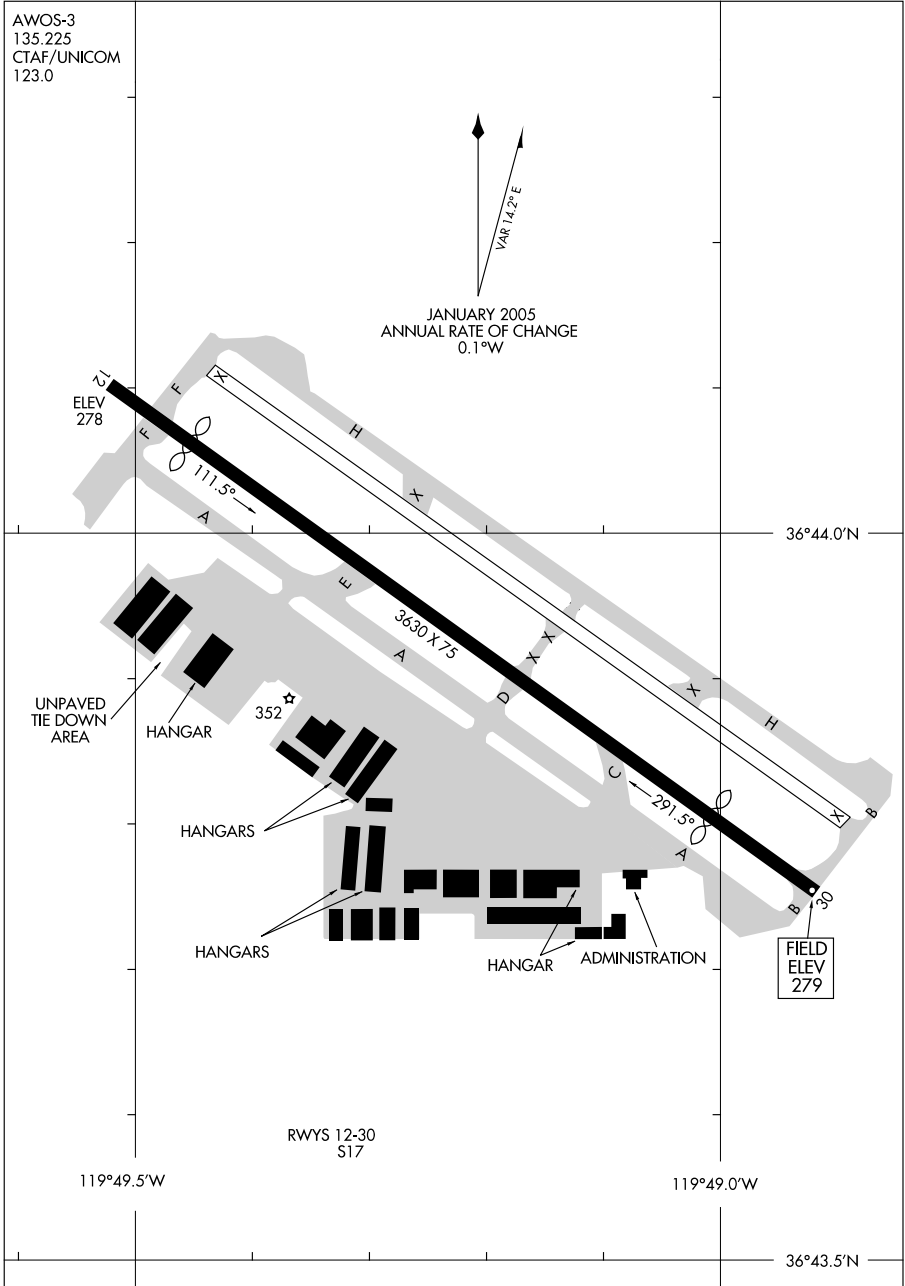
FORT HUACHUCA-SIERRA VISTA/SIERRA VISTA MUNI-LIBBY AAF (KFHU)

09071

AIRPORT DIAGRAM

AL-161 (FAA)

FRESNO CHANDLER EXECUTIVE (FCH)
FRESNO, CALIFORNIA



AIRPORT DIAGRAM

09071

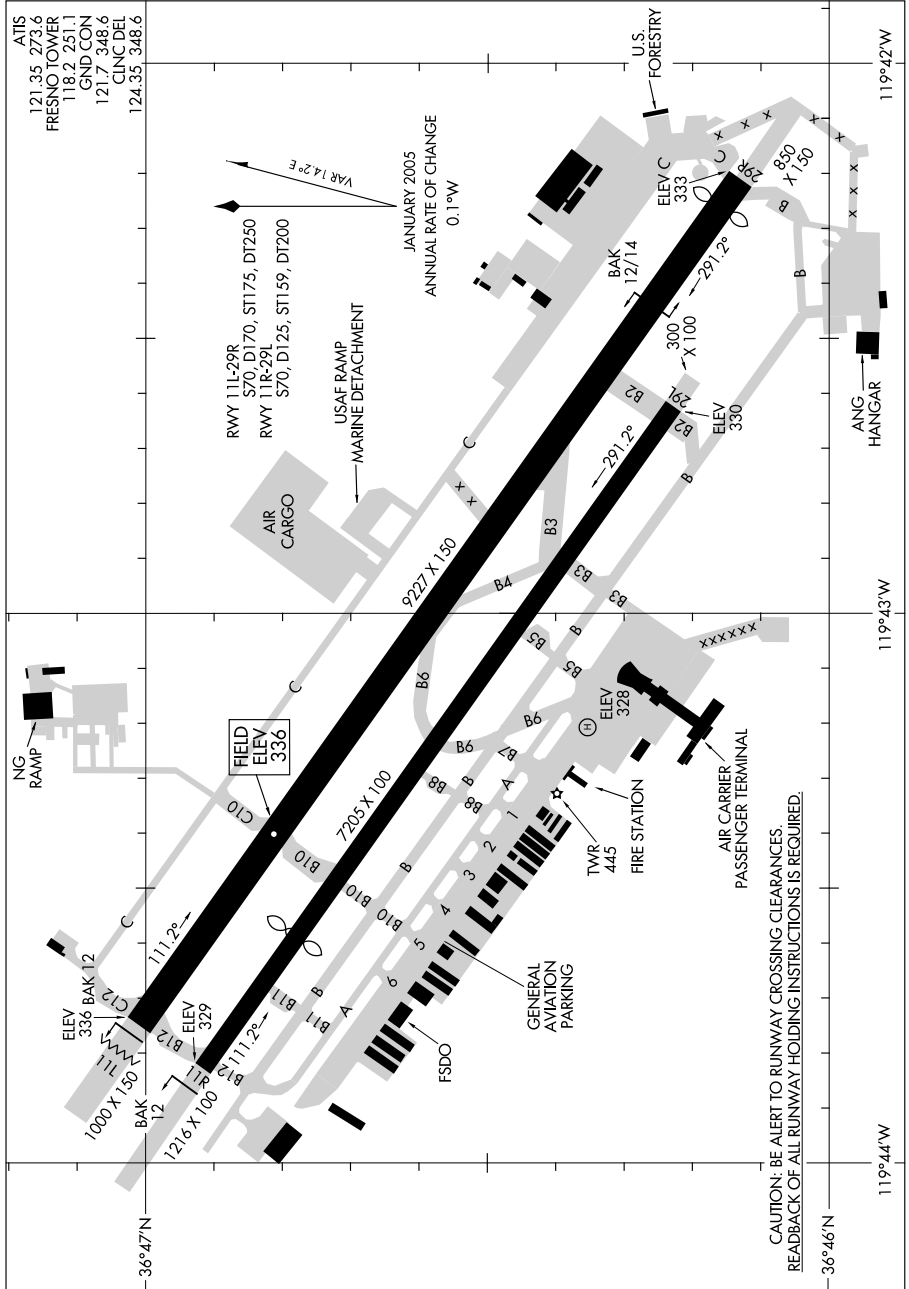
FRESNO, CALIFORNIA
FRESNO CHANDLER EXECUTIVE (FCH)

09351

AIRPORT DIAGRAM

AL-162 (FAA)

FRESNO YOSEMITE INTL (FAT)
FRESNO, CALIFORNIA



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

AIRPORT DIAGRAM

09351

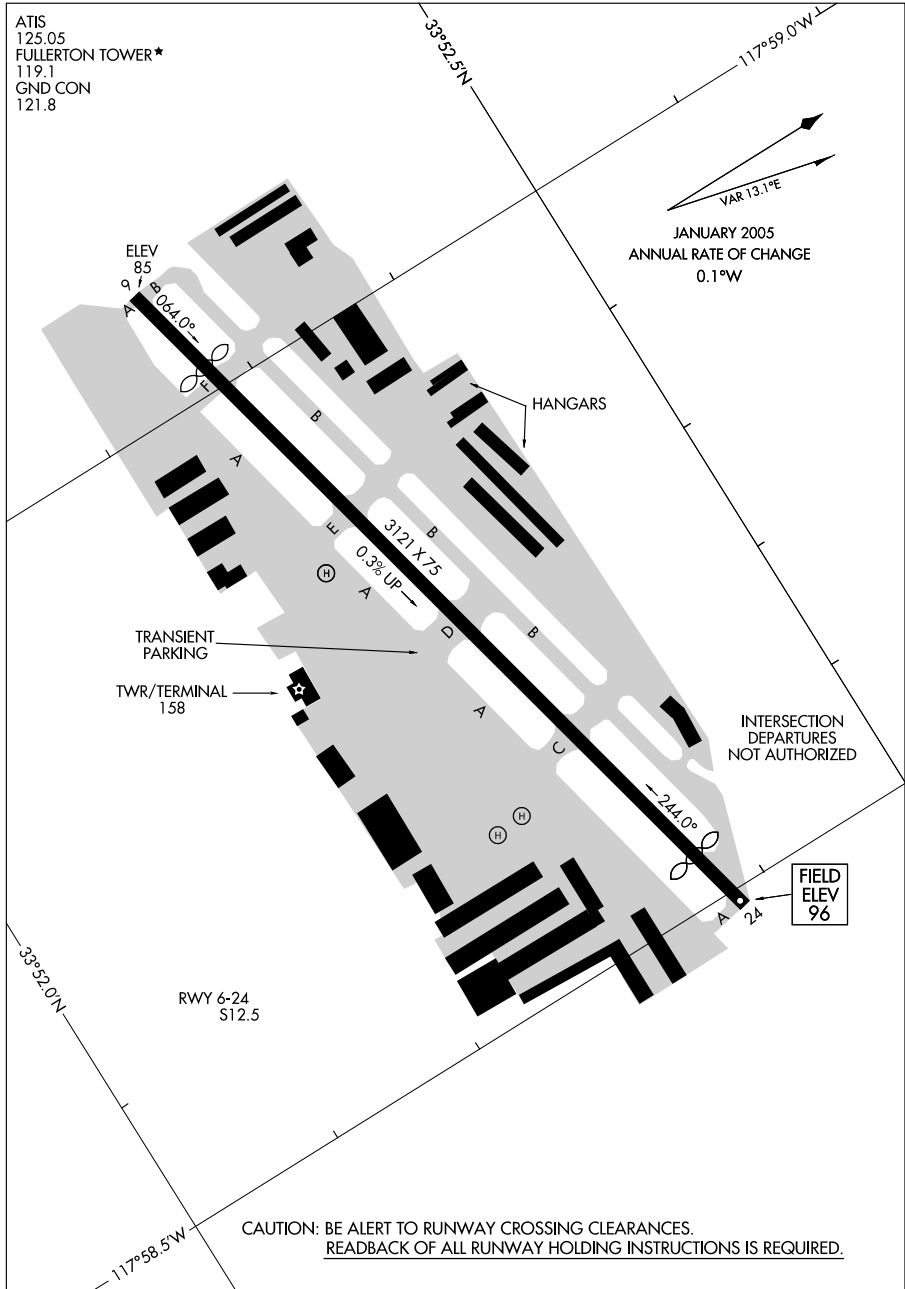
FRESNO, CALIFORNIA
FRESNO YOSEMITE INTL (FAT)

09295

AIRPORT DIAGRAM

FULLERTON MUNI (FUL)
FULLERTON, CALIFORNIA

AL-5136 (FAA)



AIRPORT DIAGRAM

09295

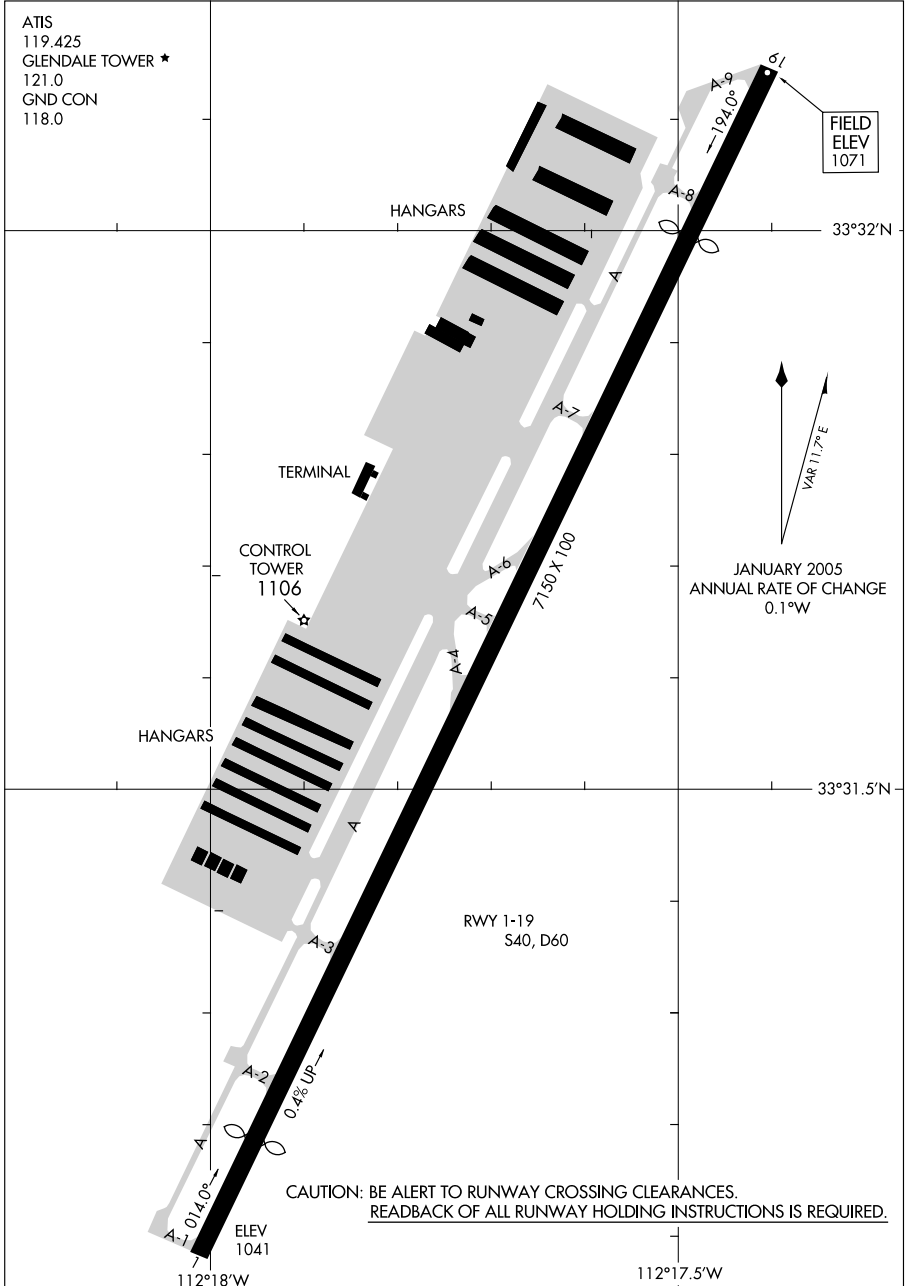
FULLERTON, CALIFORNIA
FULLERTON MUNI (FUL)

09071

AIRPORT DIAGRAM

AL-691.5 (FAA)

GLENDALE MUNI (G·E·U)
GLENDALE, ARIZONA



AIRPORT DIAGRAM

09071

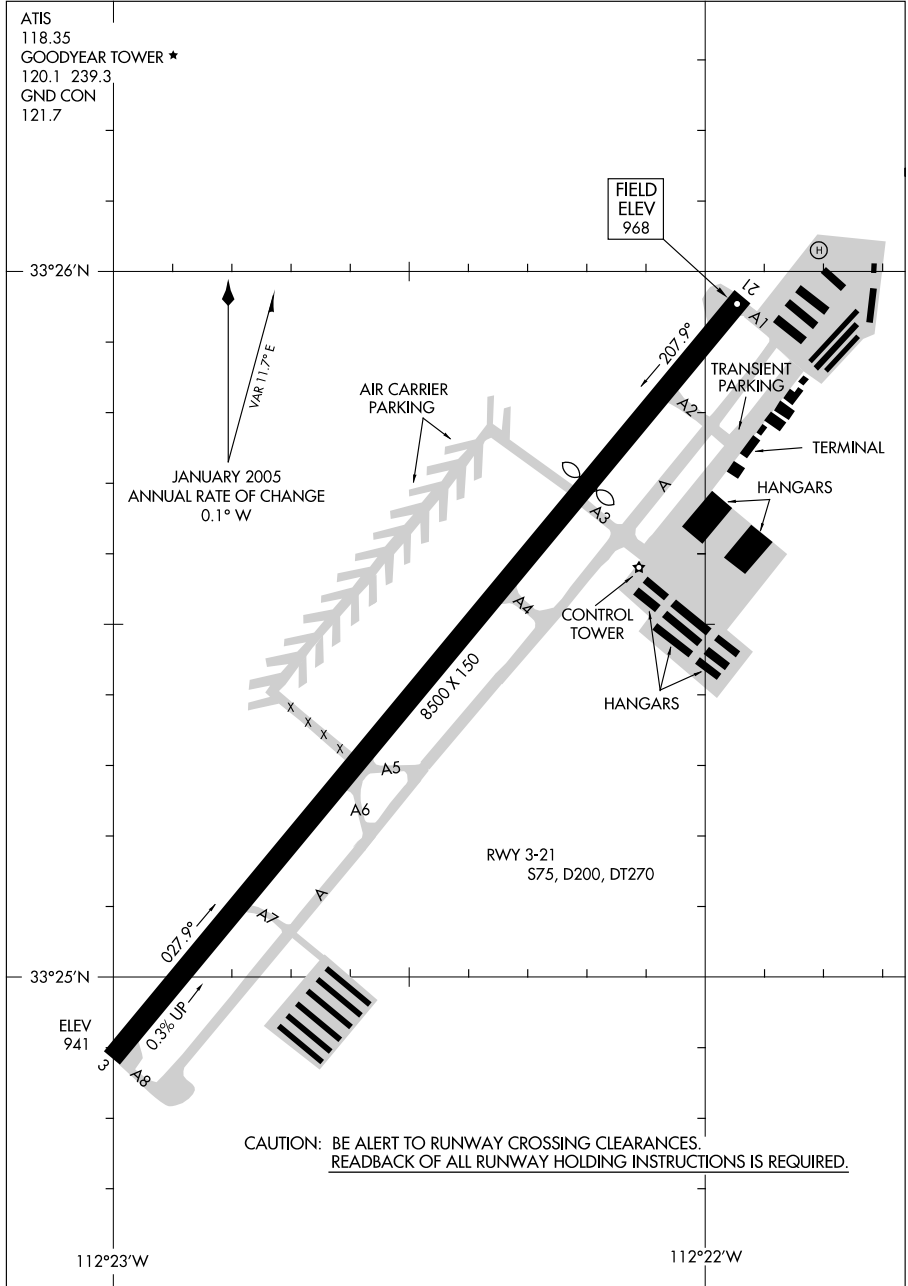
GLENDALE, ARIZONA
GLENDALE MUNI (G·E·U)

09071

AIRPORT DIAGRAM

AL-6648 (FAA)

GOODYEAR/PHOENIX GOODYEAR (GYR)
GOODYEAR, ARIZONA



AIRPORT DIAGRAM

09071

GOODYEAR, ARIZONA
GOODYEAR/PHOENIX GOODYEAR (GYR)

06271

AIRPORT DIAGRAM

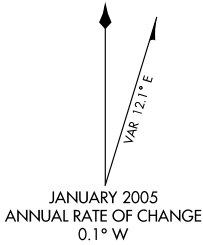
GRAND CANYON NATIONAL PARK (GCN)

AL-5381 (FAA)

GRAND CANYON, ARIZONA

ATIS 124.3
 CANYON TOWER*
 119.0
 GND CON
 121.9

35°58'N



FIELD
 ELEV
 6609

TRANSIENT PARKING

FIRE STATION

TERMINAL

GENERAL AVIATION
 PARKING

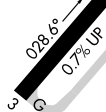
6756

■ CONTROL
 TOWER

35°57'N

8999 X 150
 M P P P P

ELEV
 6533



RWY 3-21
 S88, D108, ST137, DT160

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

112°09'W

112°08'W

AIRPORT DIAGRAM

GRAND CANYON, ARIZONA

GRAND CANYON NATIONAL PARK (GCN)

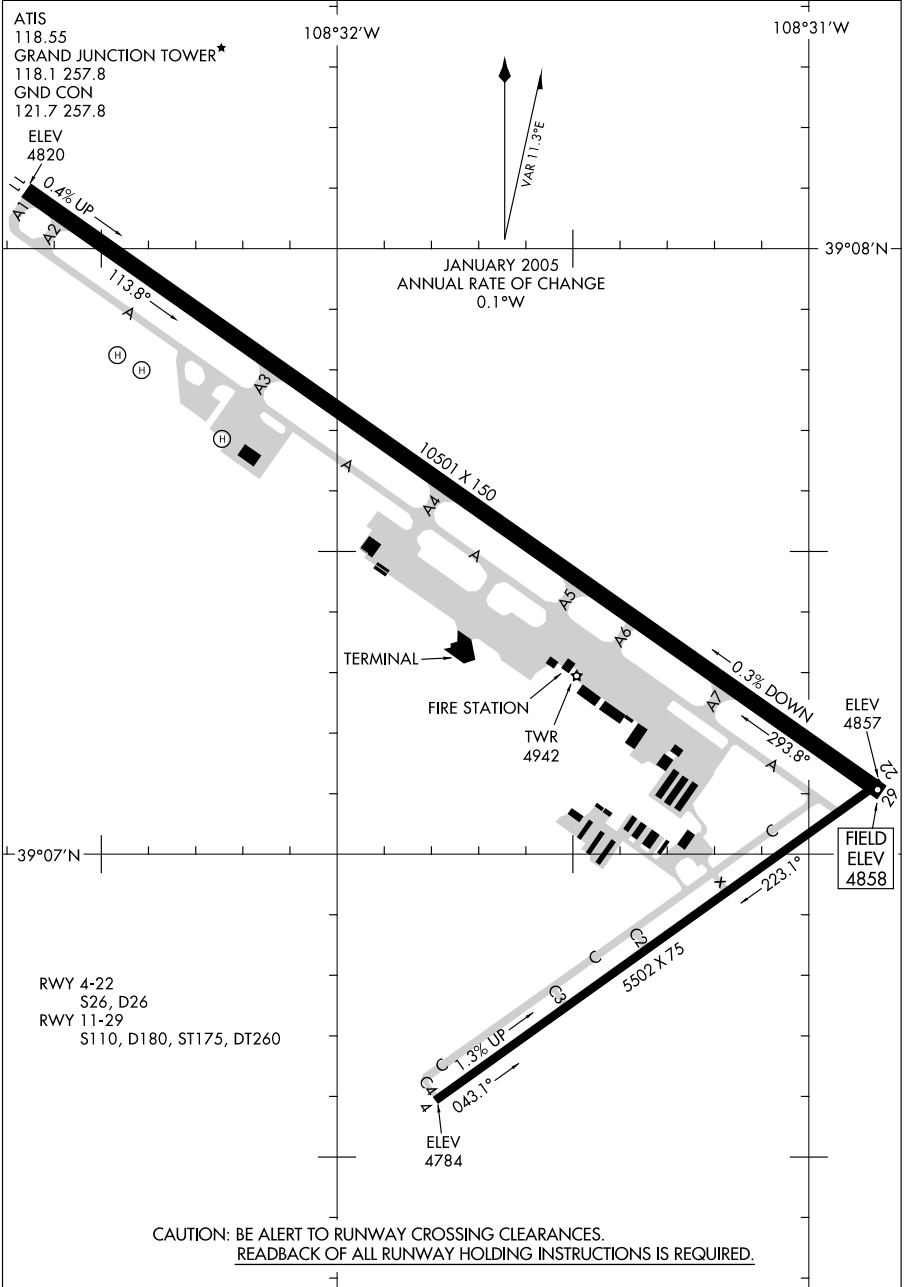
06271

10098

AIRPORT DIAGRAM

GRAND JUNCTION RGNL (GJT)
GRAND JUNCTION, COLORADO

AL-634 (FAA)



AIRPORT DIAGRAM

GRAND JUNCTION, COLORADO
GRAND JUNCTION RGNL (GJT)

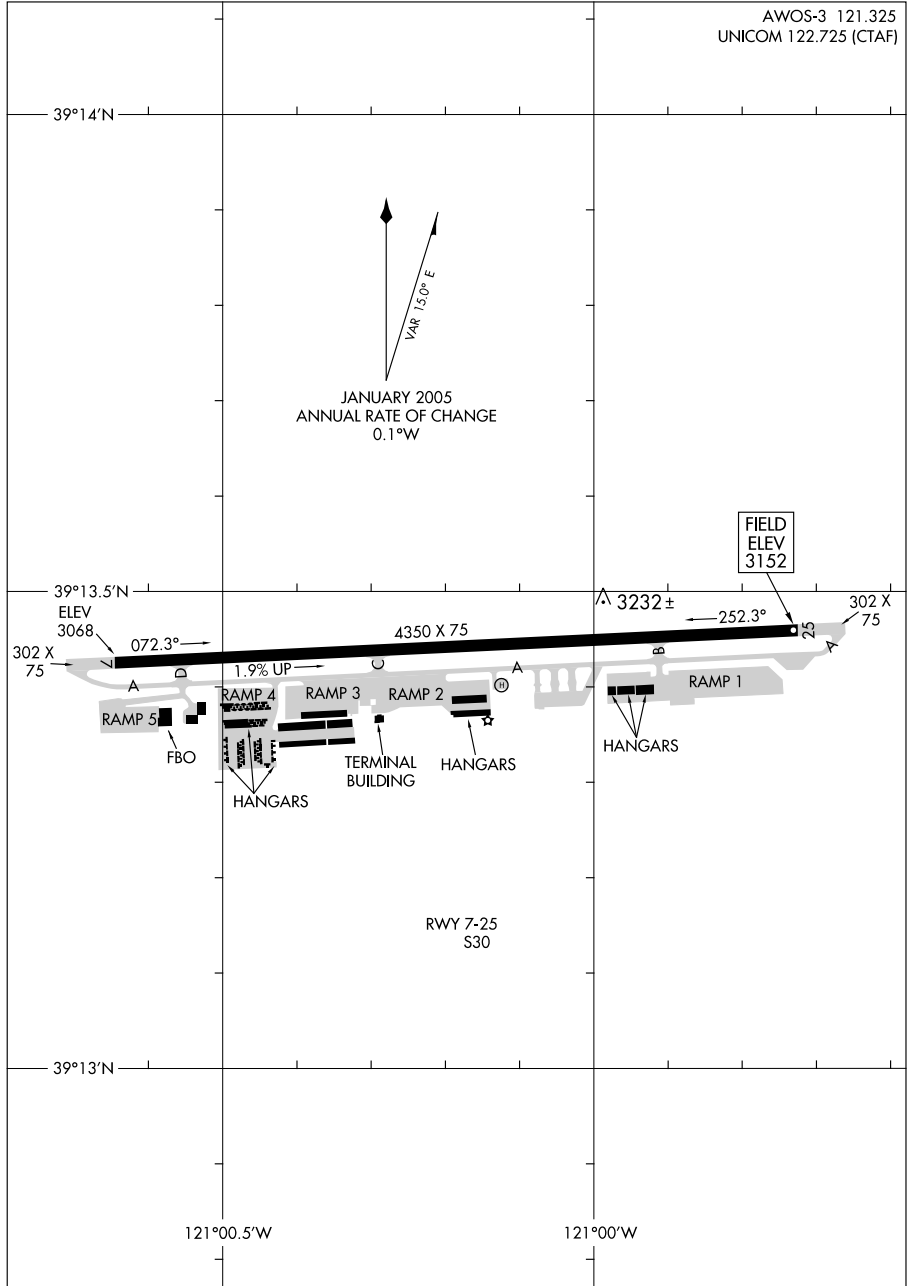
10098

06327

AIRPORT DIAGRAM

GRASS VALLEY/ NEVADA COUNTY AIRPARK (G00)
AL-6659 (FAA)
GRASS VALLEY, CALIFORNIA

AWOS-3 121.325
UNICOM 122.725 (CTAF)



AIRPORT DIAGRAM

06327

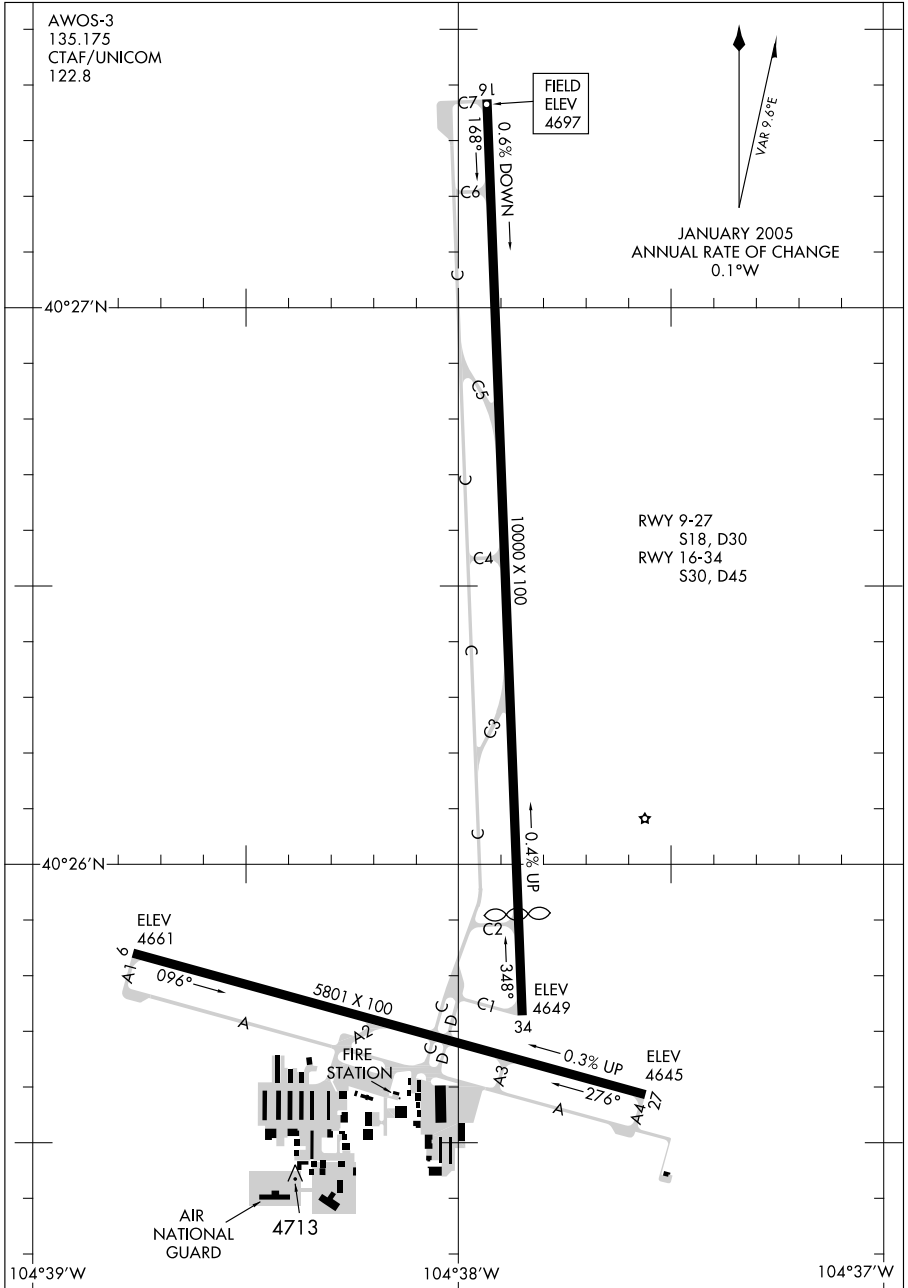
GRASS VALLEY, CALIFORNIA
GRASS VALLEY/ NEVADA COUNTY AIRPARK (G00)

09071

AIRPORT DIAGRAM

GREELEY-WELD COUNTY (GXY)
GREELEY, COLORADO

AL-325 (FAA)



AIRPORT DIAGRAM

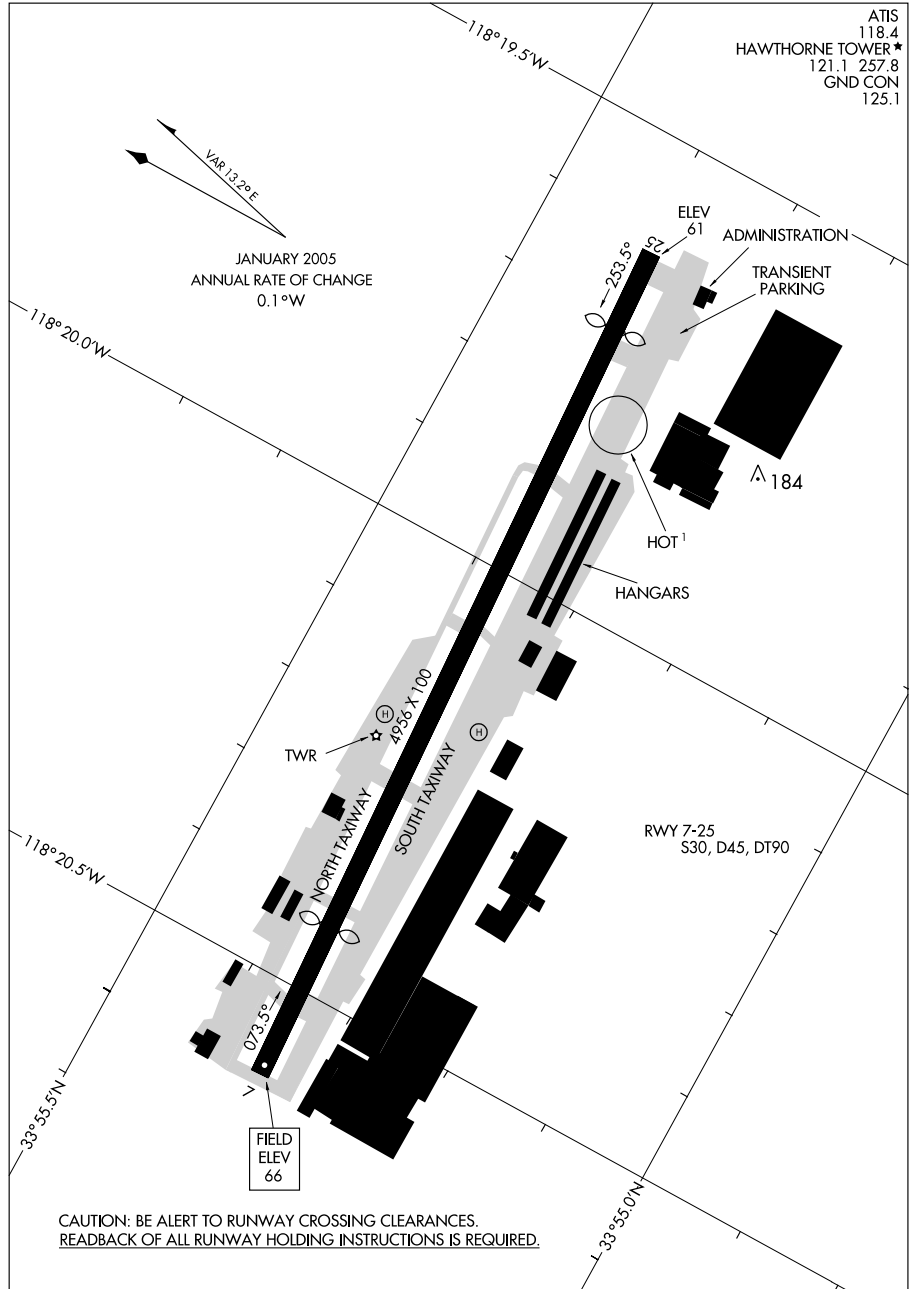
GREELEY, COLORADO
GREELEY-WELD COUNTY (GXY)

09071

10098
AIRPORT DIAGRAM

HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)
AL-5120 (FAA)
HAWTHORNE, CALIFORNIA

ATIS
118.4
HAWTHORNE TOWER*
121.1 257.8
GND CON
125.1



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

AIRPORT DIAGRAM
10098

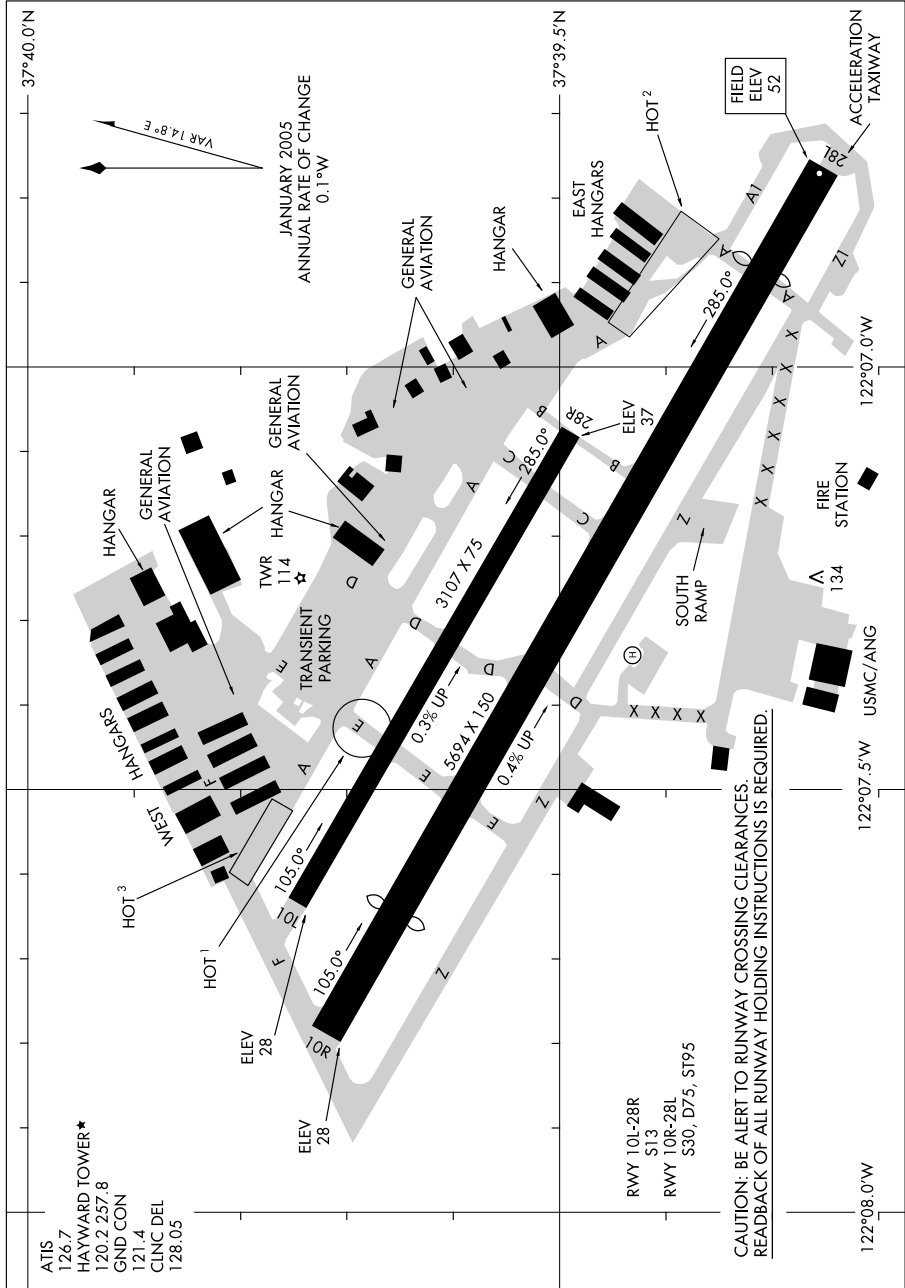
HAWTHORNE, CALIFORNIA
HAWTHORNE/JACK NORTHROP FIELD/HAWTHORNE MUNI (HHR)

09295

AIRPORT DIAGRAM

AL-5015 (FAA)

HAYWARD EXECUTIVE (HWD)
HAYWARD, CALIFORNIA



AIRPORT DIAGRAM

09295

HAYWARD, CALIFORNIA
HAYWARD EXECUTIVE (HWD)

10098

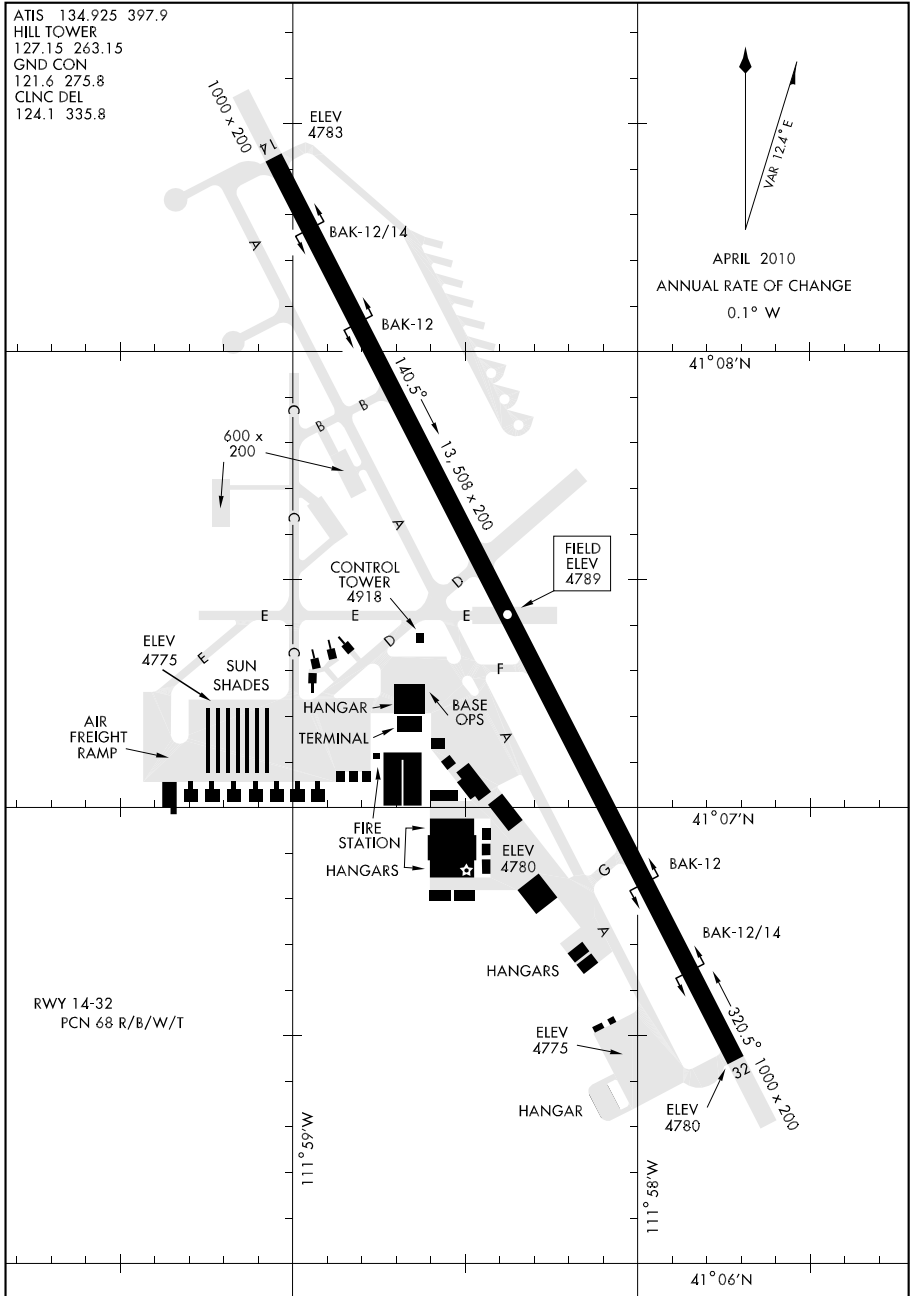
AIRPORT DIAGRAM

AFD-296 [USAF]

HILL AFB (KHIF)

OGDEN, UTAH

ATIS 134.925 397.9
 HILL TOWER
 127.15 263.15
 GND CON
 121.6 275.8
 CLNC DEL
 124.1 335.8



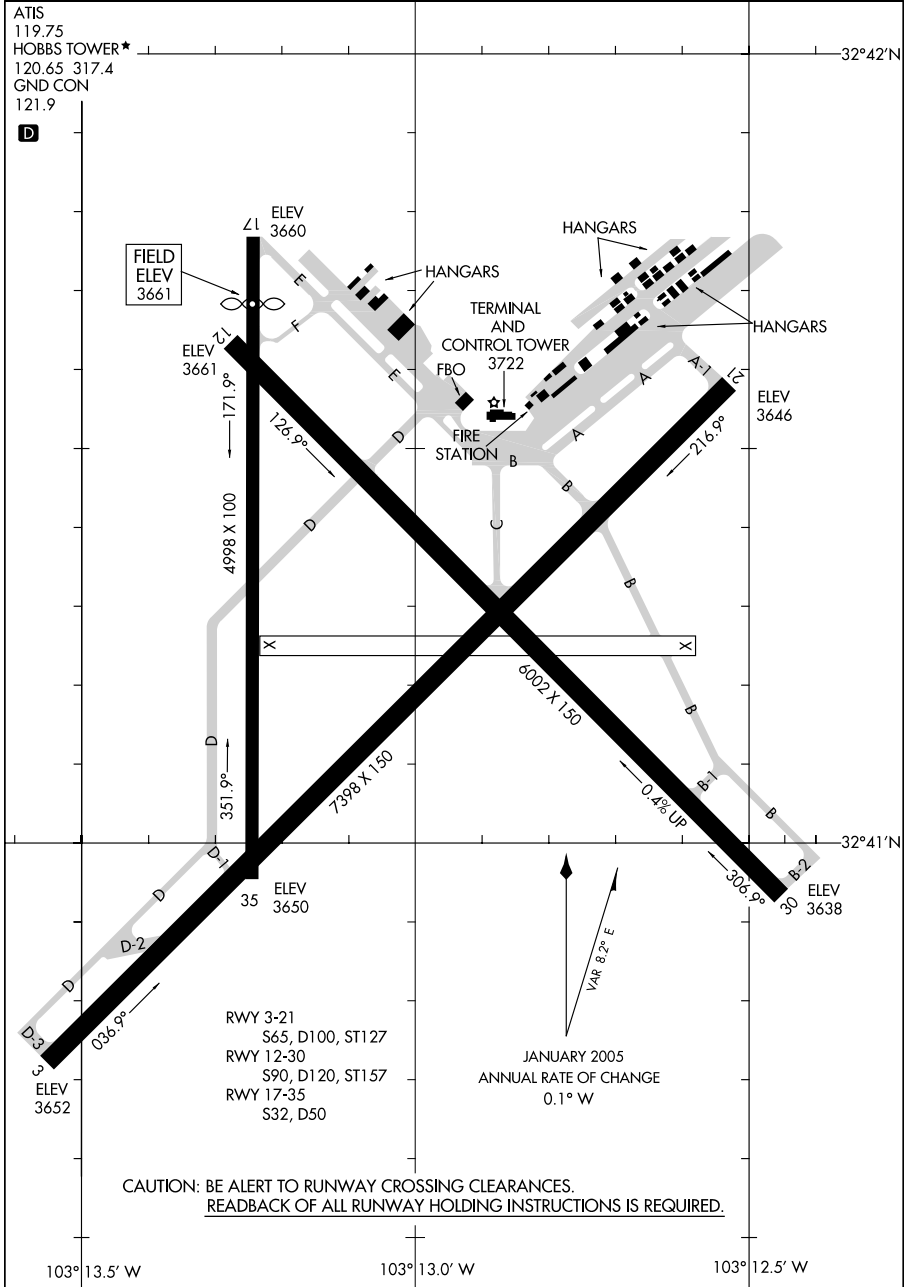
09351

AIRPORT DIAGRAM

AL-851 (FAA)

HOBBS/LEA COUNTY RGNL (HOB)

HOBBS, NEW MEXICO



AIRPORT DIAGRAM

09351

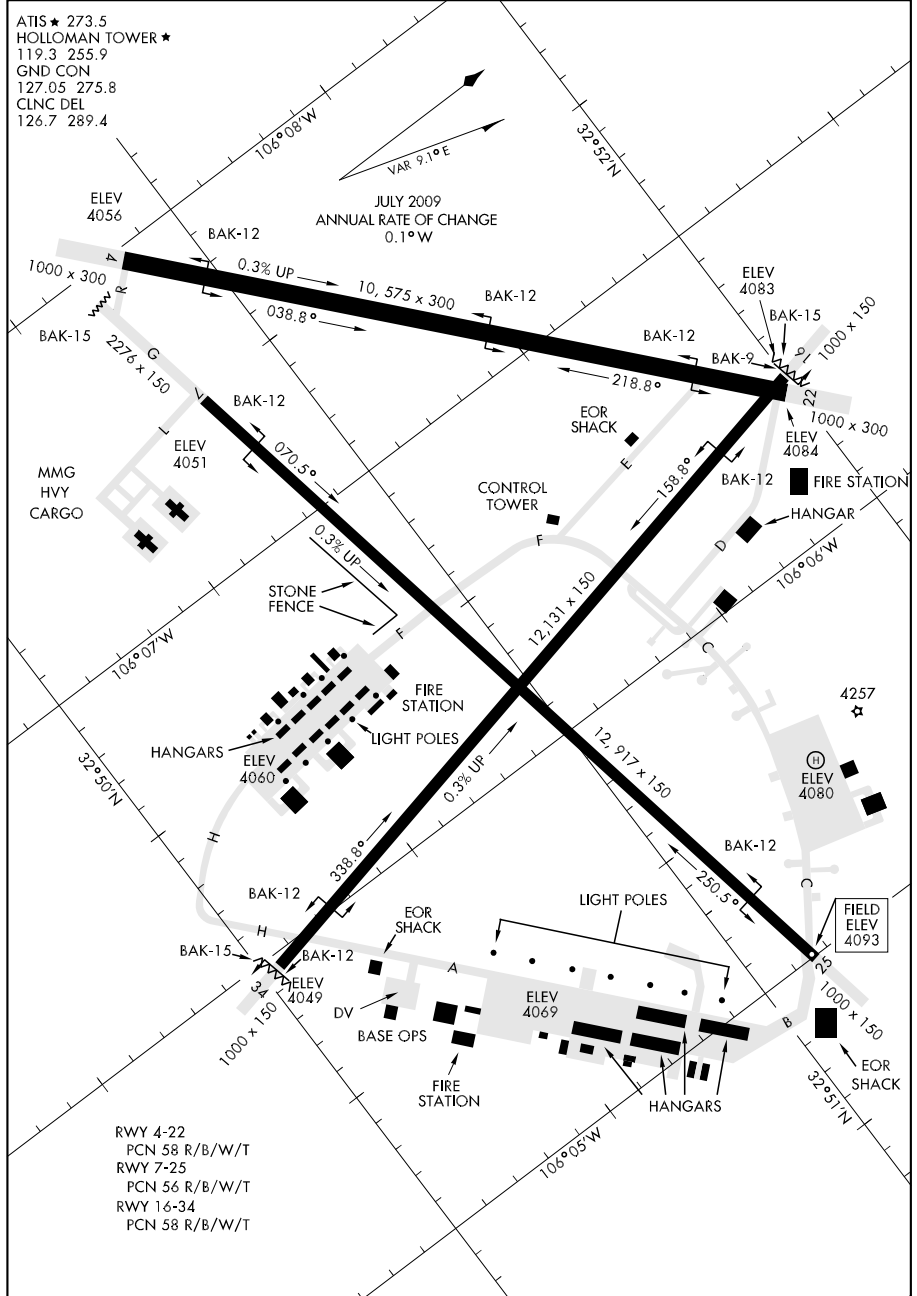
HOBBS, NEW MEXICO

HOBBS/LEA COUNTY RGNL (HOB)

09183

AIRPORT DIAGRAM

HOLLOMAN AFB (KHMN)
ALAMOGORDO, NEW MEXICO



AIRPORT DIAGRAM

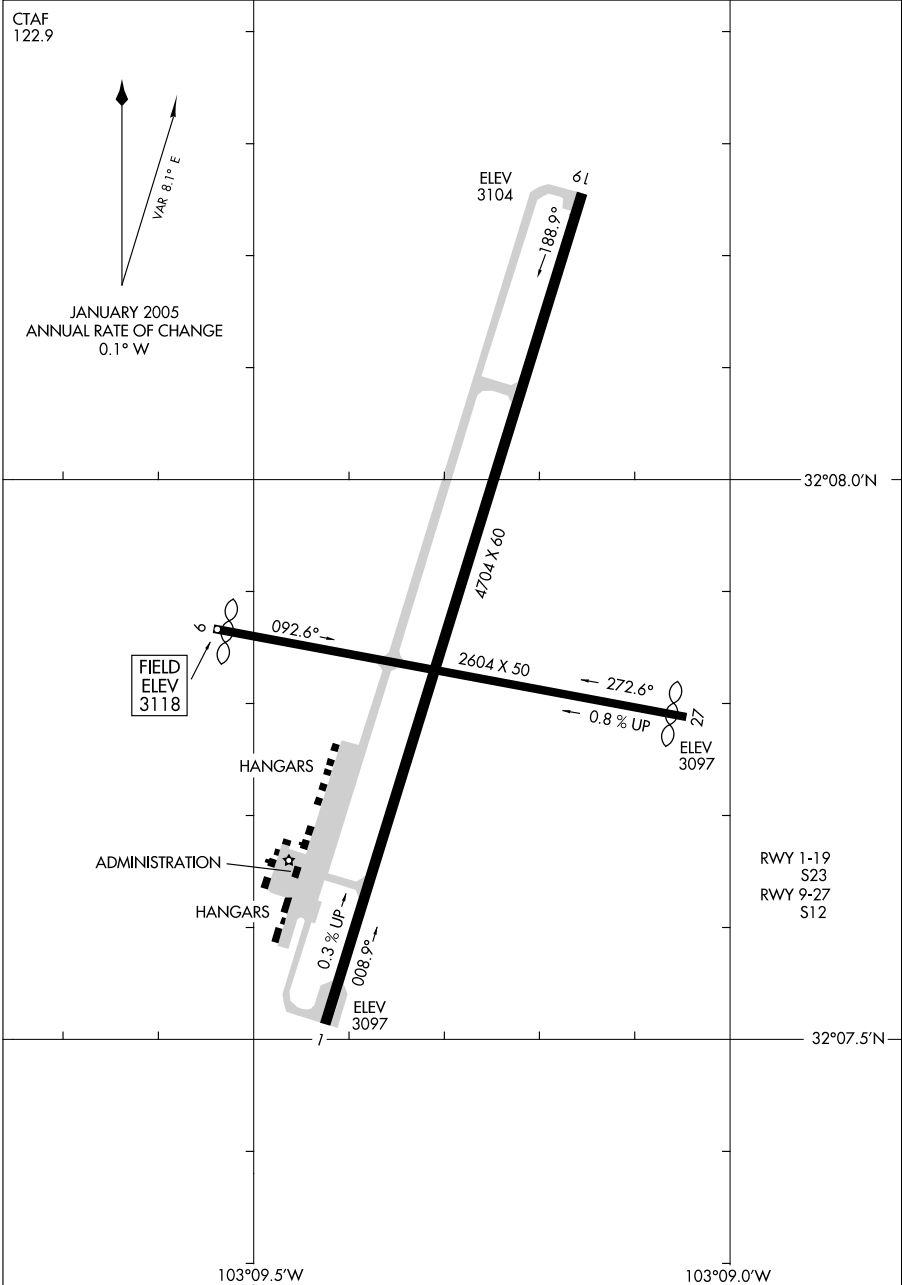
ALAMOGORDO, NEW MEXICO
HOLLOMAN AFB (KHMN)

09295

AIRPORT DIAGRAM

AL-9408 (FAA)

JAL/LEA COUNTY (E26)
JAL, NEW MEXICO



AIRPORT DIAGRAM

09295

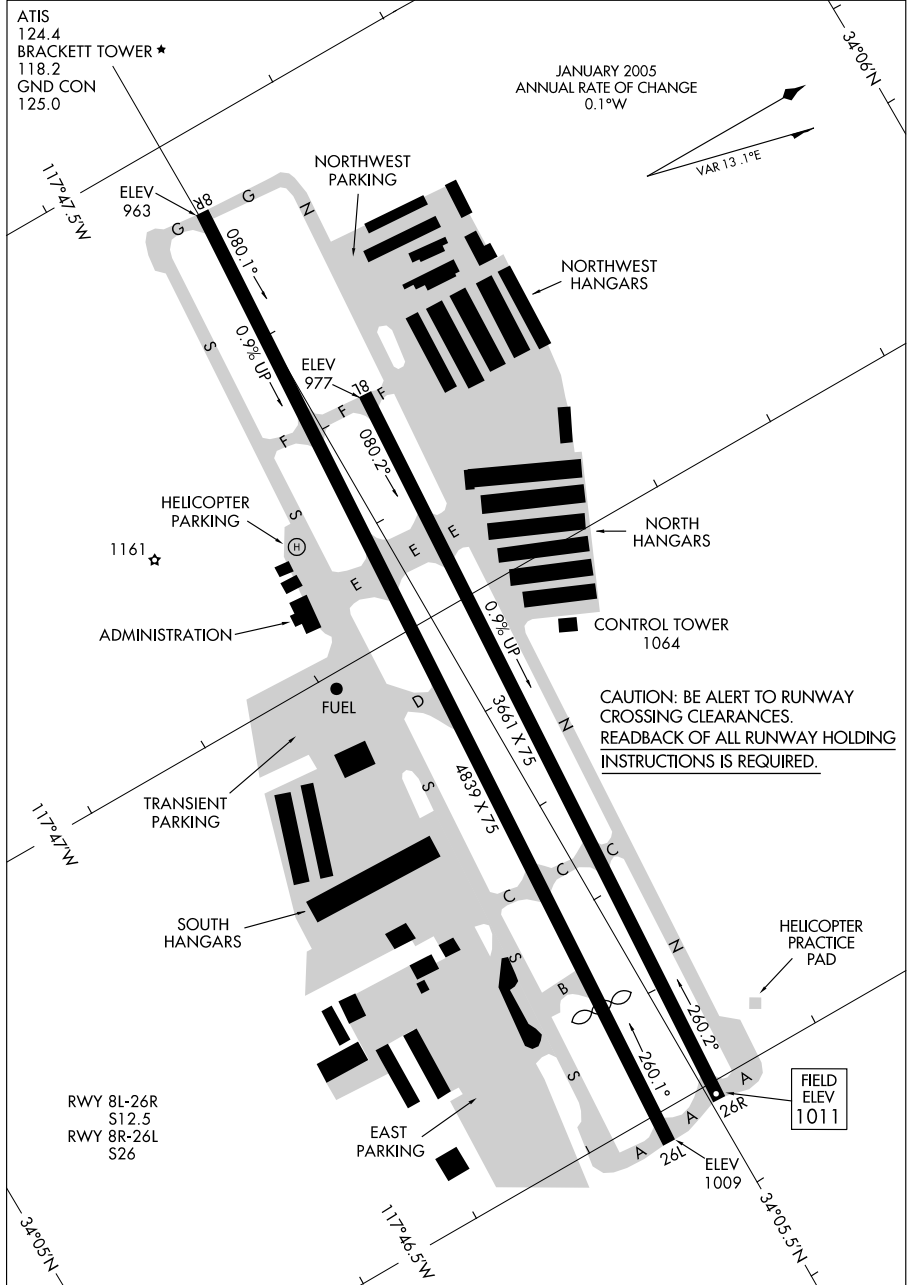
JAL, NEW MEXICO
JAL/LEA COUNTY (E26)

09295

AIRPORT DIAGRAM

LA VERNE/BRACKETT FIELD (POC)
LA VERNE, CALIFORNIA

AL-5218 (FAA)



AIRPORT DIAGRAM

LA VERNE, CALIFORNIA
LA VERNE/BRACKETT FIELD (POC)

09295

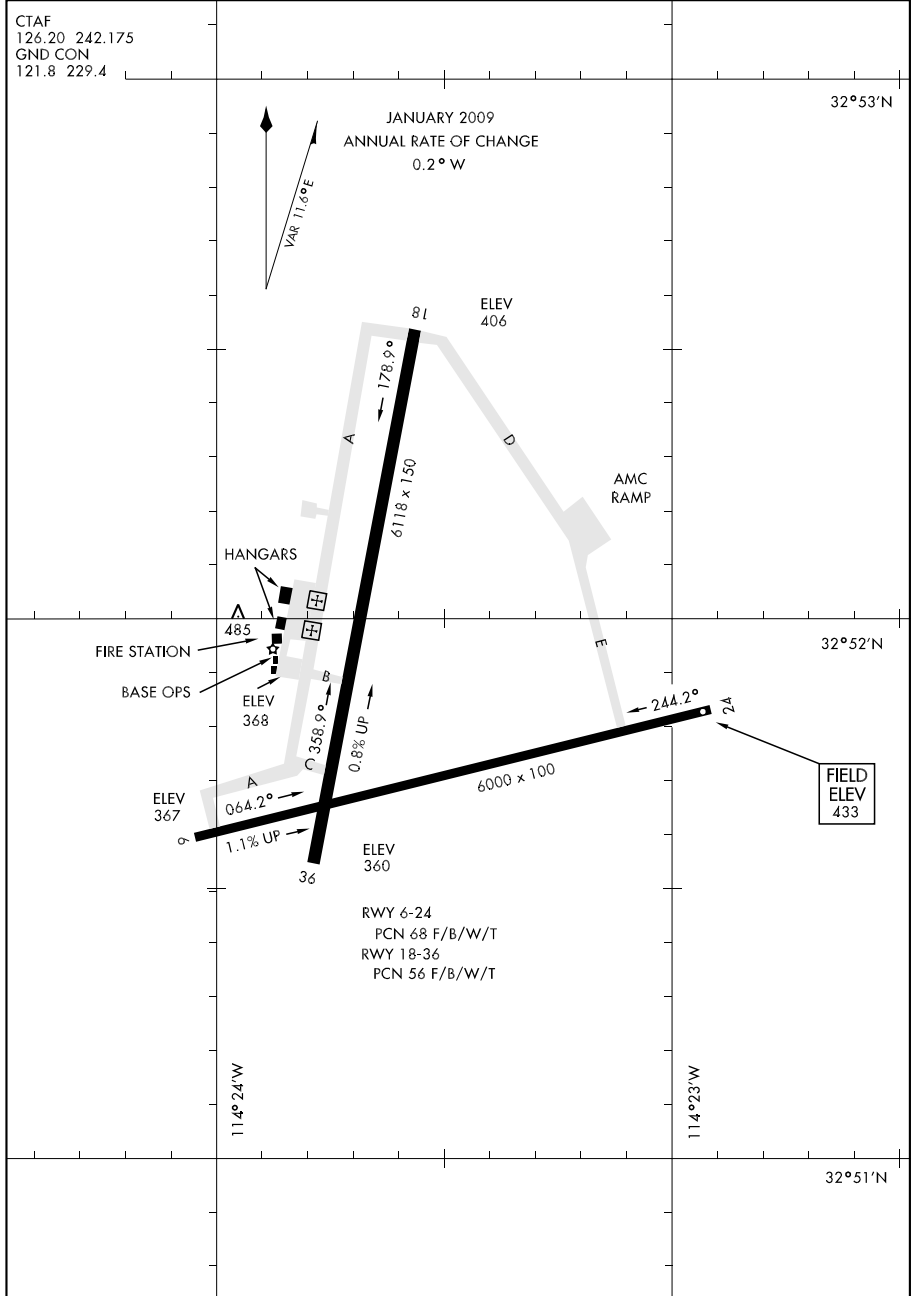
09015

AIRPORT DIAGRAM

AFD-6341 [USA]

LAGUNA AAF (KLGf)

YUMA PROVING GROUND, ARIZONA

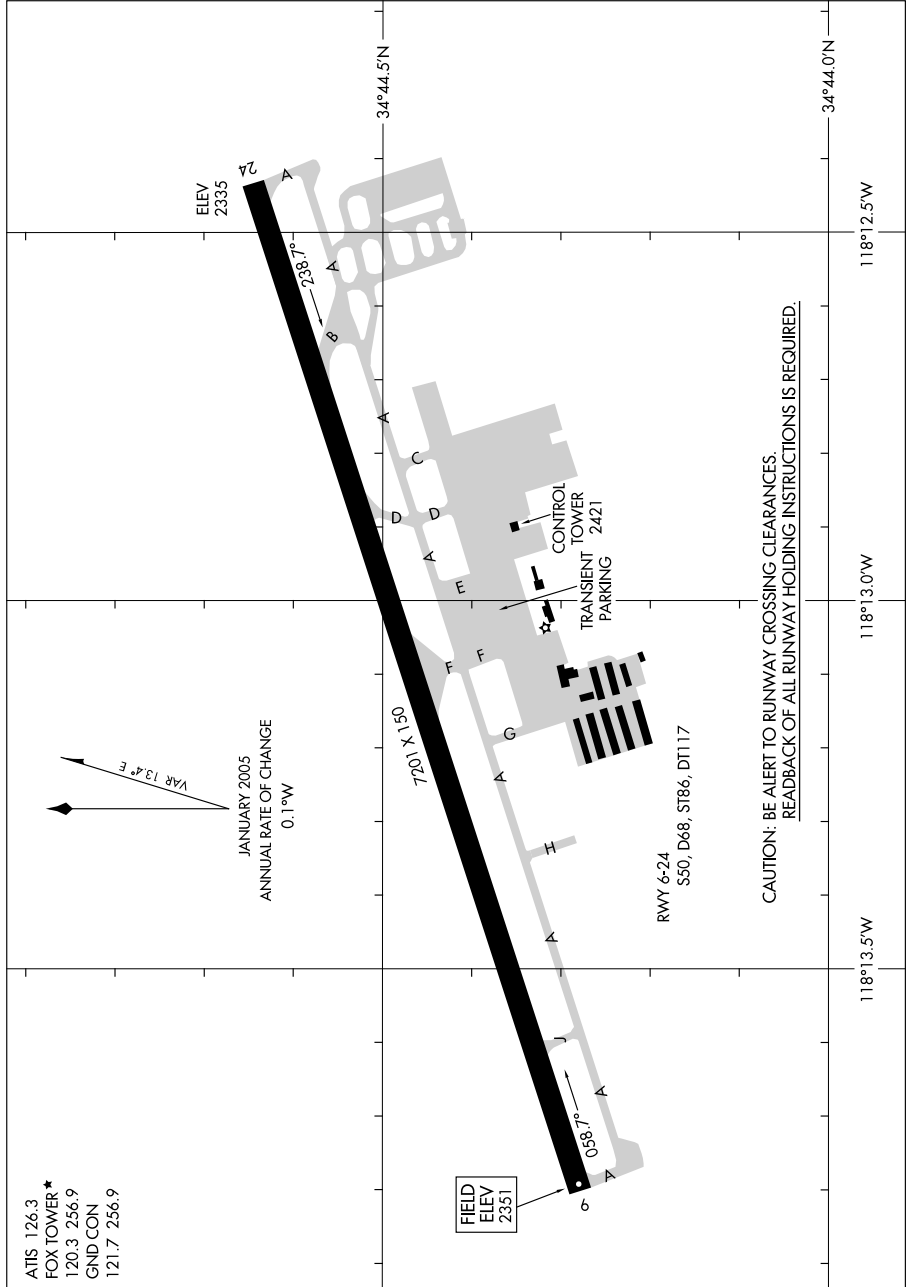


AIRPORT DIAGRAM

YUMA PROVING GROUND, ARIZONA
LAGUNA AAF (KLGf)

AIRPORT DIAGRAM

LANCASTER/ GENERAL WILLIAM J. FOX AIRFIELD (WJF)
AL-5065 (FAA)
LANCASTER, CALIFORNIA



AIRPORT DIAGRAM

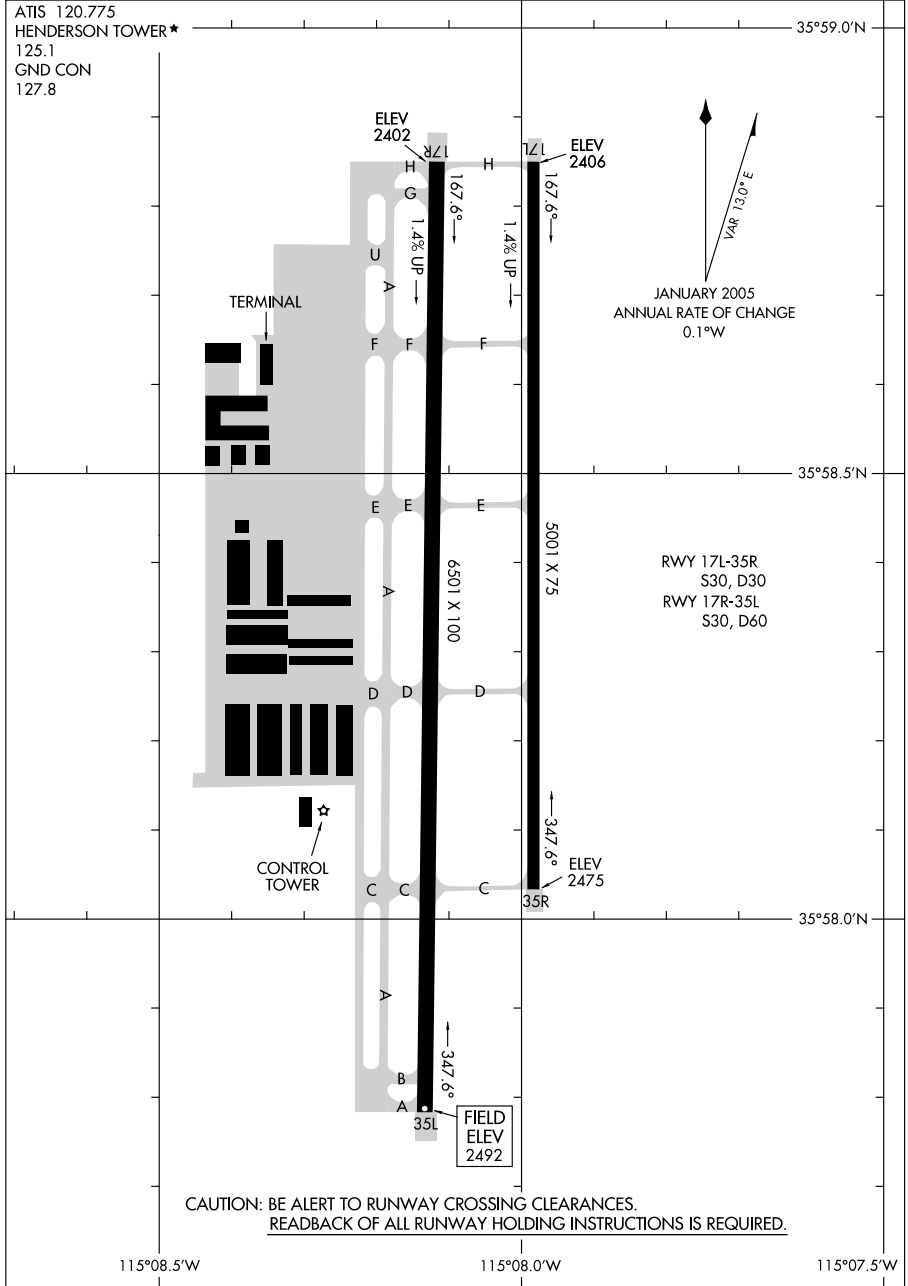
LANCASTER, CALIFORNIA
LANCASTER/ GENERAL WILLIAM J. FOX AIRFIELD (WJF)

08325

AIRPORT DIAGRAM

LAS VEGAS/HENDERSON EXECUTIVE (HND)
LAS VEGAS, NEVADA

AL-6514 (FAA)



AIRPORT DIAGRAM

LAS VEGAS, NEVADA
LAS VEGAS/HENDERSON EXECUTIVE (HND)

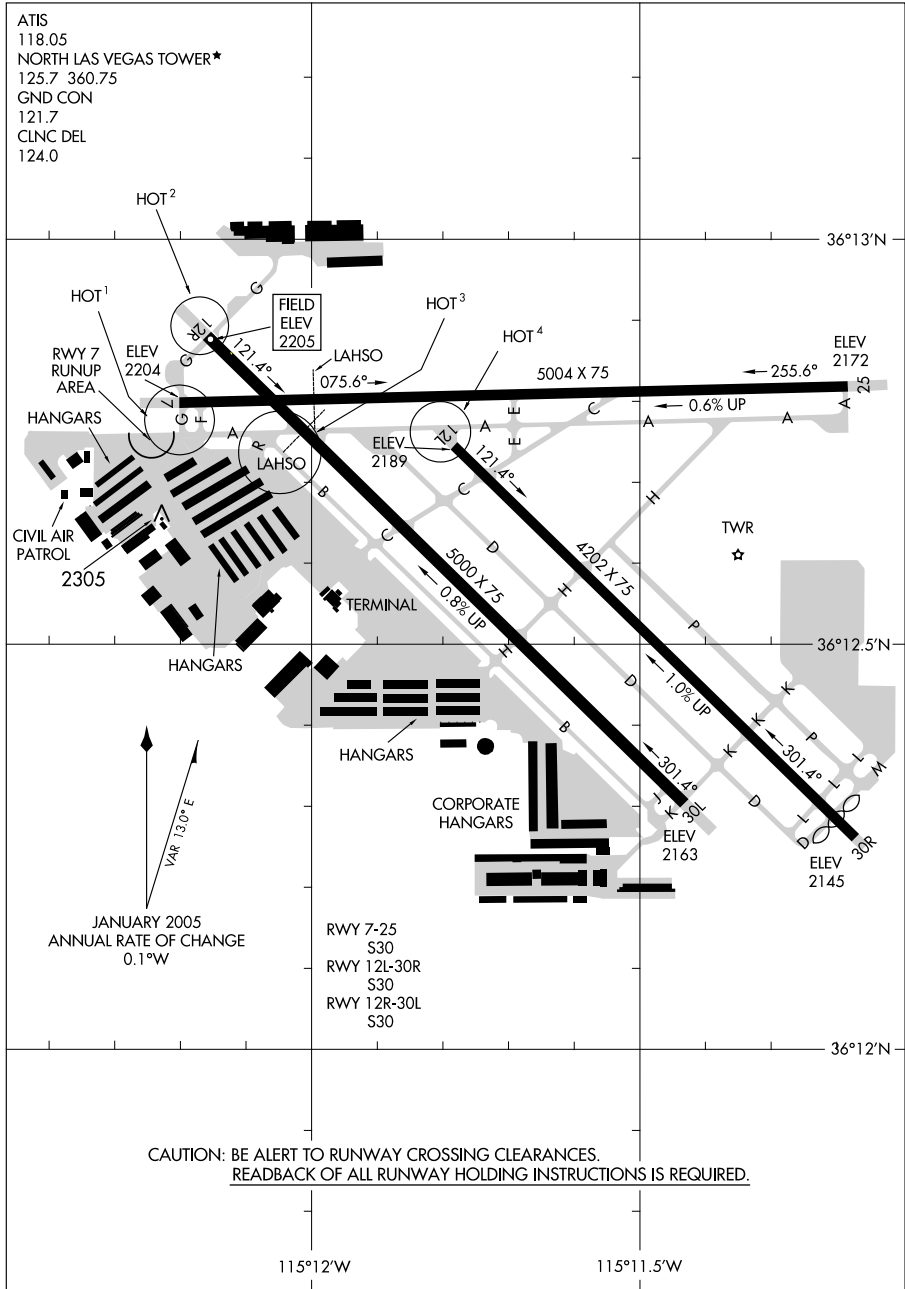
08325

09295

AIRPORT DIAGRAM

AL-6970 (FAA)

LAS VEGAS/NORTH LAS VEGAS (VGT)
LAS VEGAS, NEVADA



AIRPORT DIAGRAM

09295

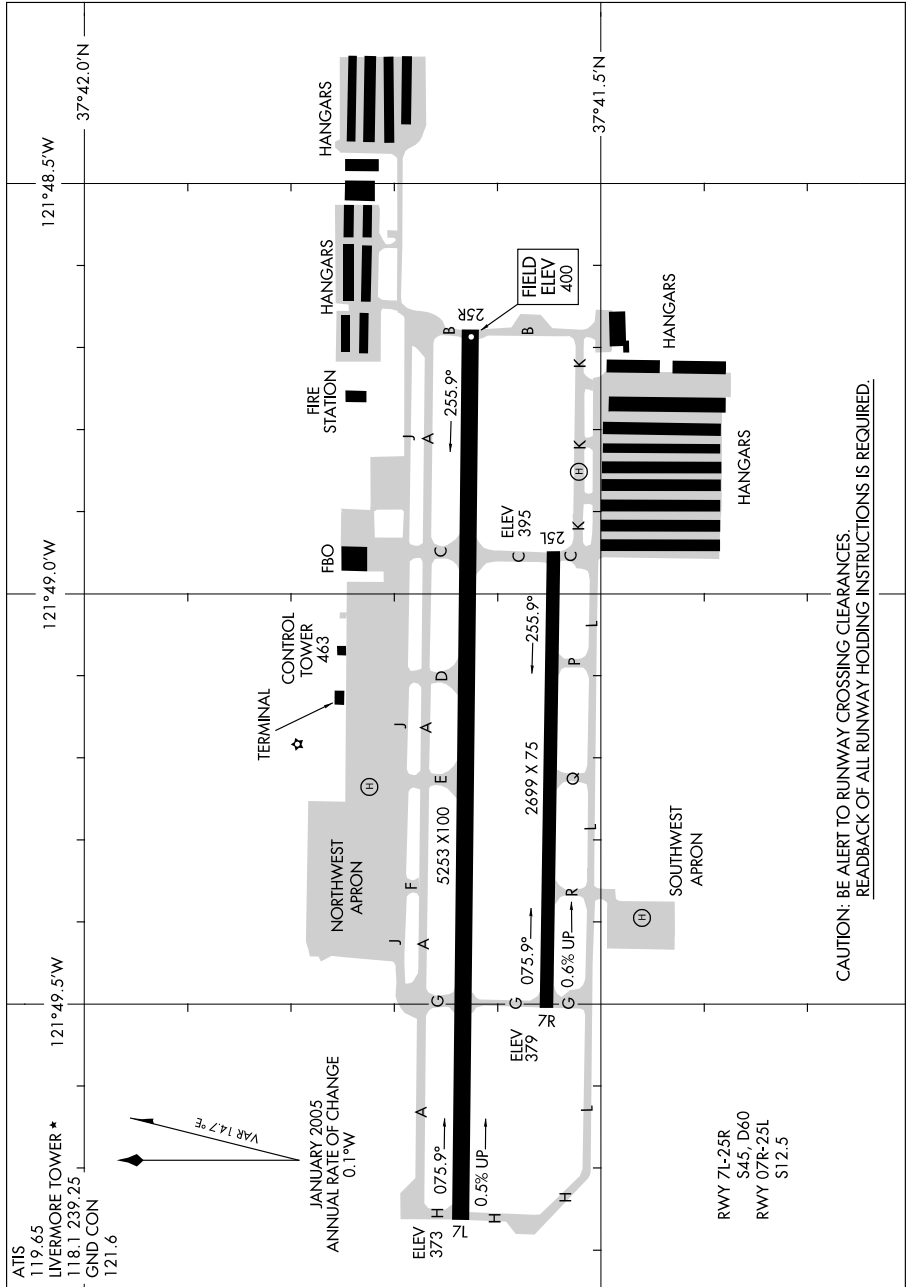
LAS VEGAS, NEVADA
LAS VEGAS/NORTH LAS VEGAS (VGT)

09295

AIRPORT DIAGRAM

AL-6075 (FAA)

LIVERMORE MUNI (LVK)
LIVERMORE, CALIFORNIA



AIRPORT DIAGRAM

09295

LIVERMORE, CALIFORNIA
LIVERMORE MUNI (LVK)

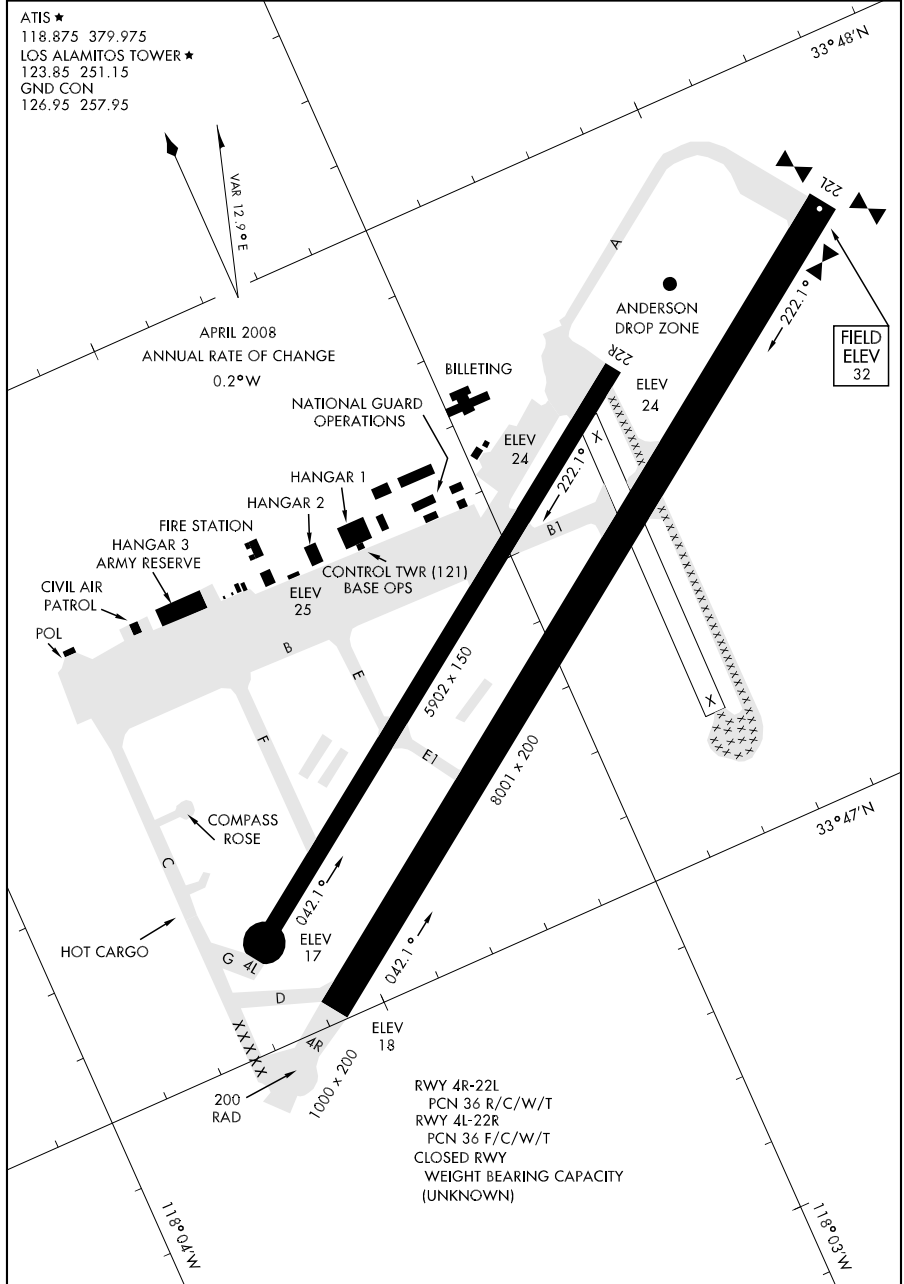
08101

AIRPORT DIAGRAM

AFD-953 [USA]

LOS ALAMITOS AAF (KSLI)

LOS ALAMITOS, CALIFORNIA



AIRPORT DIAGRAM

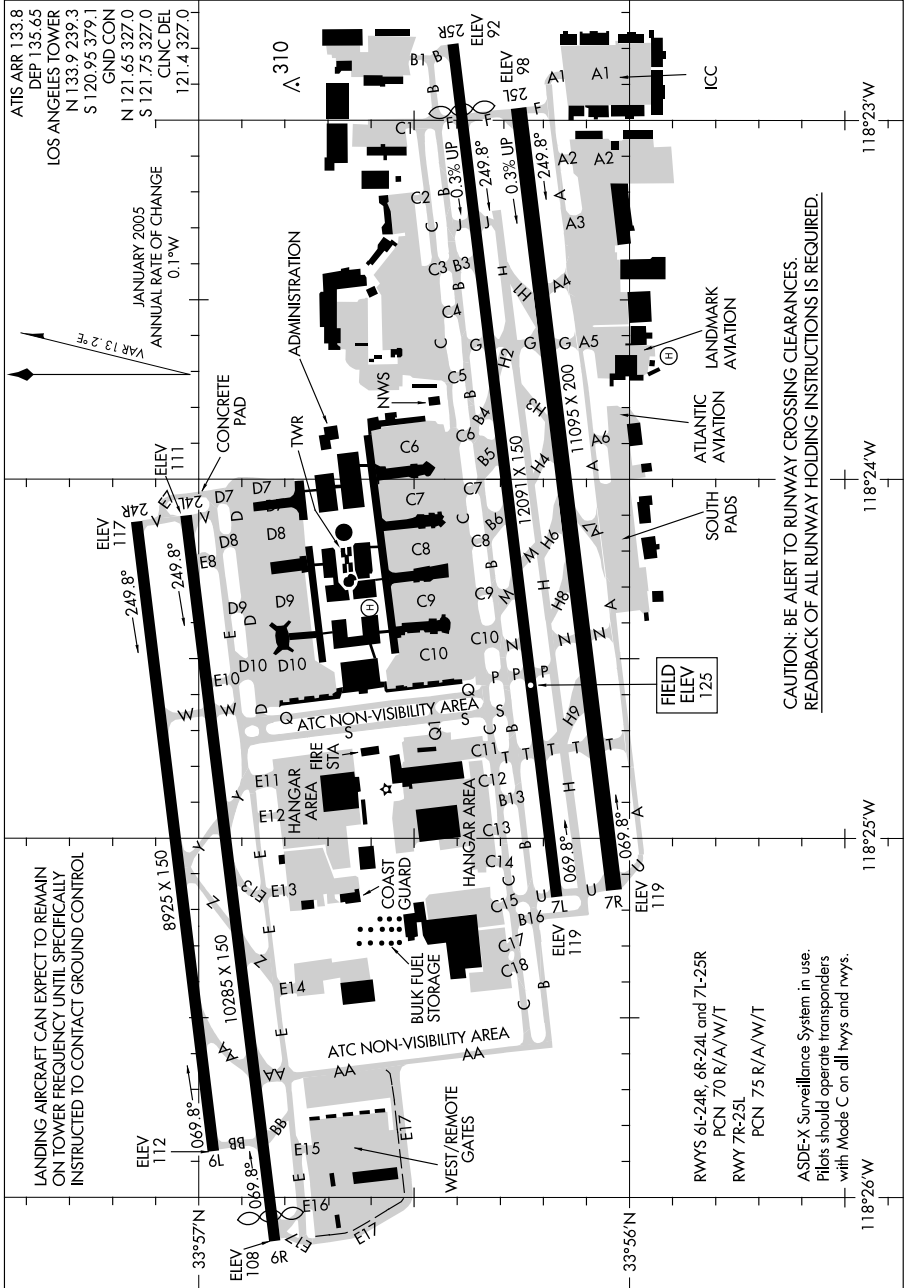
LOS ALAMITOS, CALIFORNIA
LOS ALAMITOS AAF (KSLI)

10098

AIRPORT DIAGRAM

AL-237 (FAA)

LOS ANGELES INTL (LAX)
LOS ANGELES, CALIFORNIA



AIRPORT DIAGRAM

LOS ANGELES, CALIFORNIA
LOS ANGELES INTL (LAX)

10098

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

LANDING AIRCRAFT CAN EXPECT TO REMAIN ON TOWER FREQUENCY UNTIL SPECIFICALLY INSTRUCTED TO CONTACT GROUND CONTROL

RWYS 6L-24R, 6R-24L and 7L-25R
PCN 70 R/A/W/T
RWY 7R-25L
PCN 75 R/A/W/T

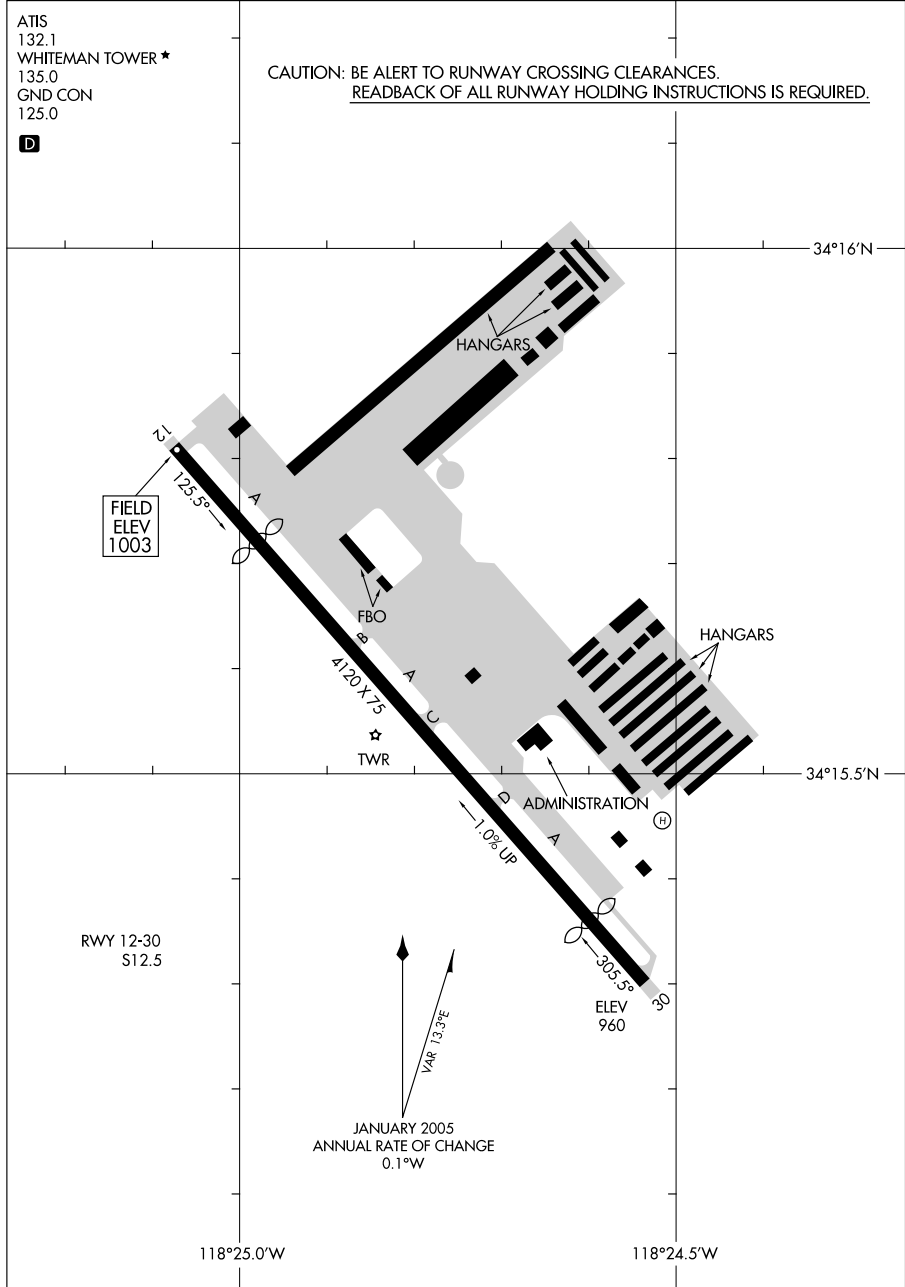
ASDE-X Surveillance System in use.
Pilots should operate transponders with Mode C on all hwy and rwy.

09295

AIRPORT DIAGRAM

AL-9132 (FAA)

LOS ANGELES/ WHITEMAN (WHP)
LOS ANGELES, CALIFORNIA



AIRPORT DIAGRAM

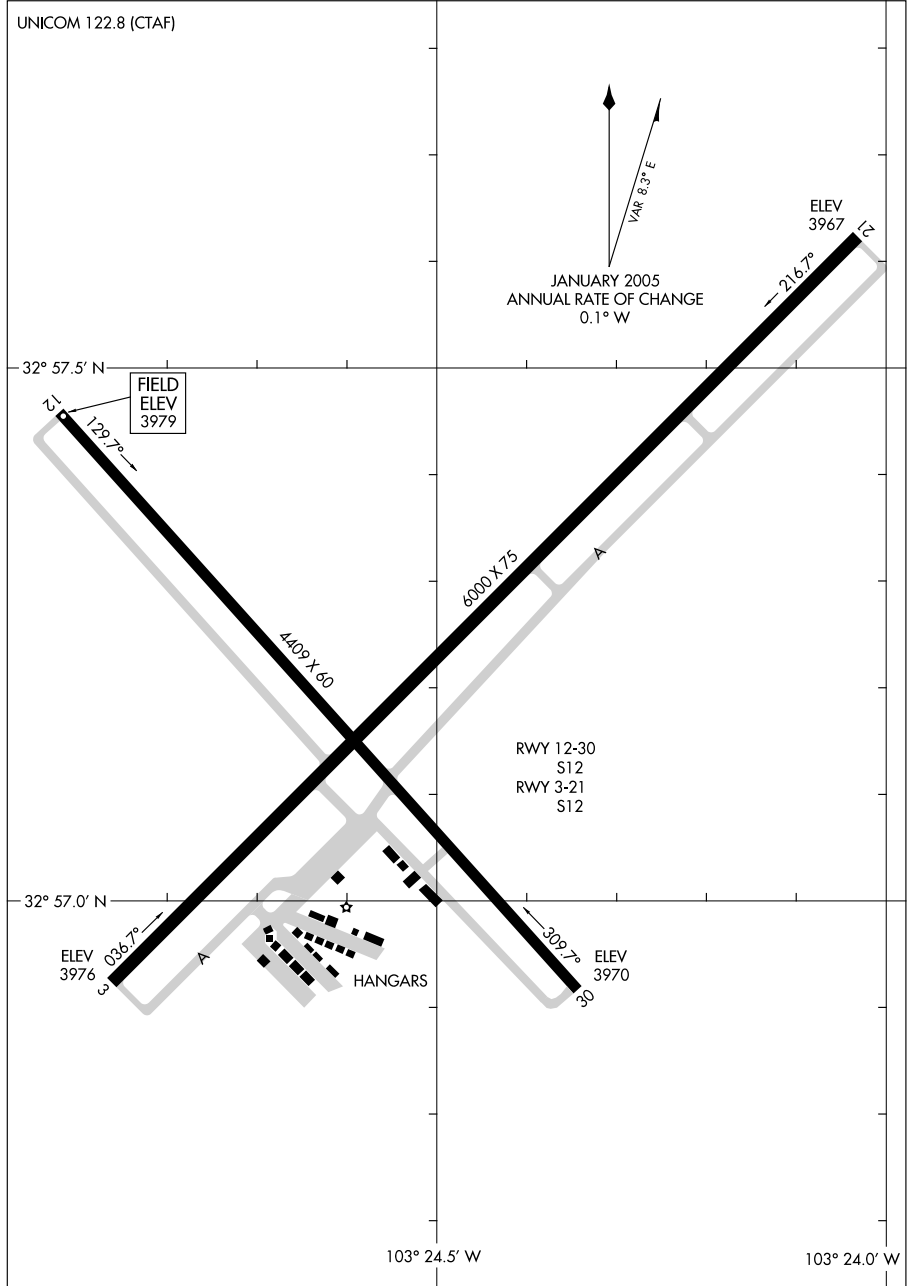
09295

LOS ANGELES, CALIFORNIA
LOS ANGELES/ WHITEMAN (WHP)

06271

AIRPORT DIAGRAM

LOVINGTON/LEA COUNTY-ZIP FRANKLIN MEMORIAL (E06)
AL-6951 (FAA) LOVINGTON, NEW MEXICO



AIRPORT DIAGRAM

06271

LOVINGTON, NEW MEXICO
LOVINGTON/LEA COUNTY-ZIP FRANKLIN MEMORIAL (E06)

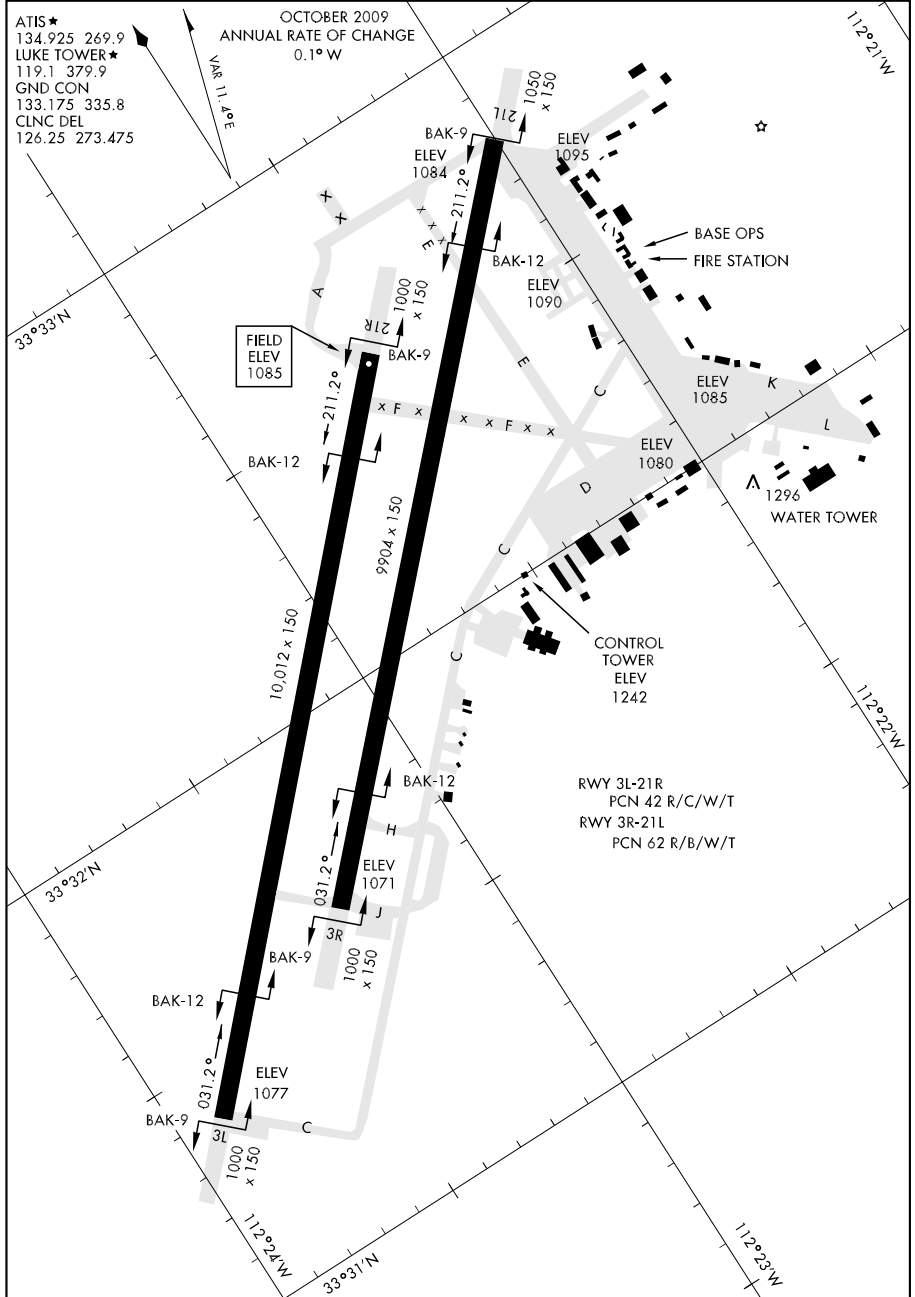
09295

AIRPORT DIAGRAM

AFD-321 [USAF]

LUKE AFB (KLUF)

GLENDALE, ARIZONA



AIRPORT DIAGRAM

GLENDALE, ARIZONA

LUKE AFB (KLUF)

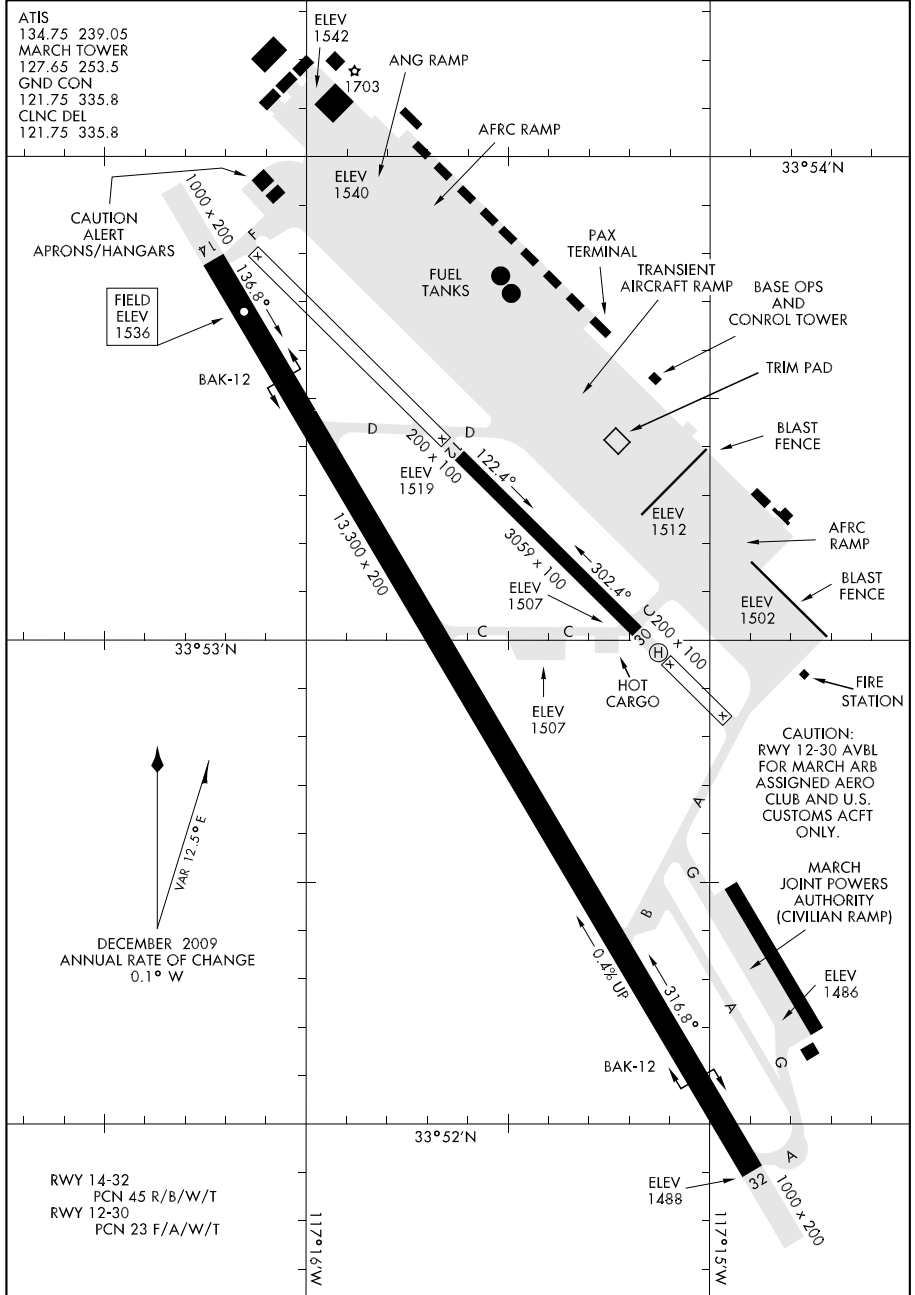
09351

MARCH ARB (KRIV)

AIRPORT DIAGRAM

AFD-348 [USAF]

RIVERSIDE, CALIFORNIA



AIRPORT DIAGRAM

RIVERSIDE, CALIFORNIA

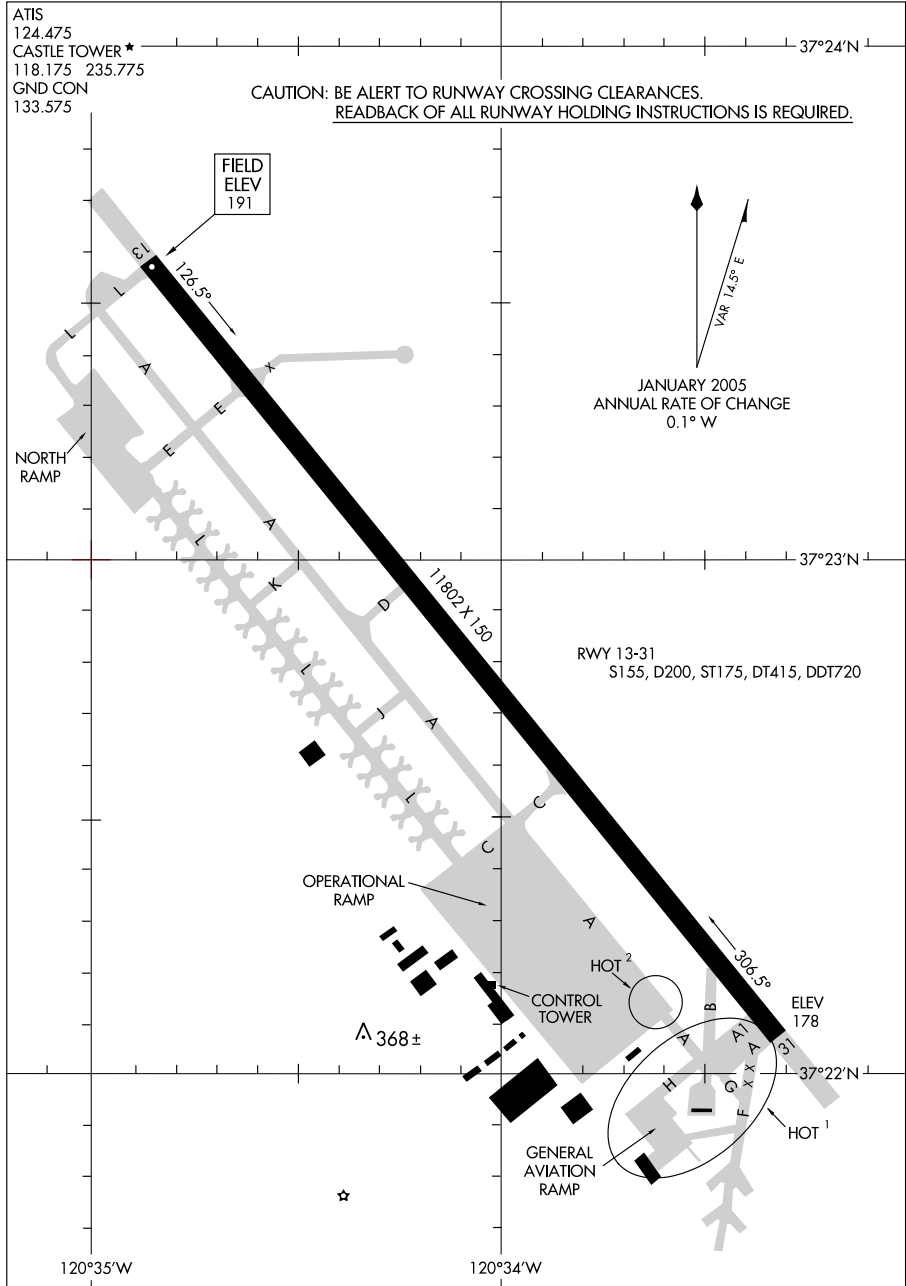
MARCH ARB (KRIV)

09295

AIRPORT DIAGRAM

AL-568 (FAA)

MERCED/CASTLE (MER)
MERCED, CALIFORNIA



AIRPORT DIAGRAM

09295

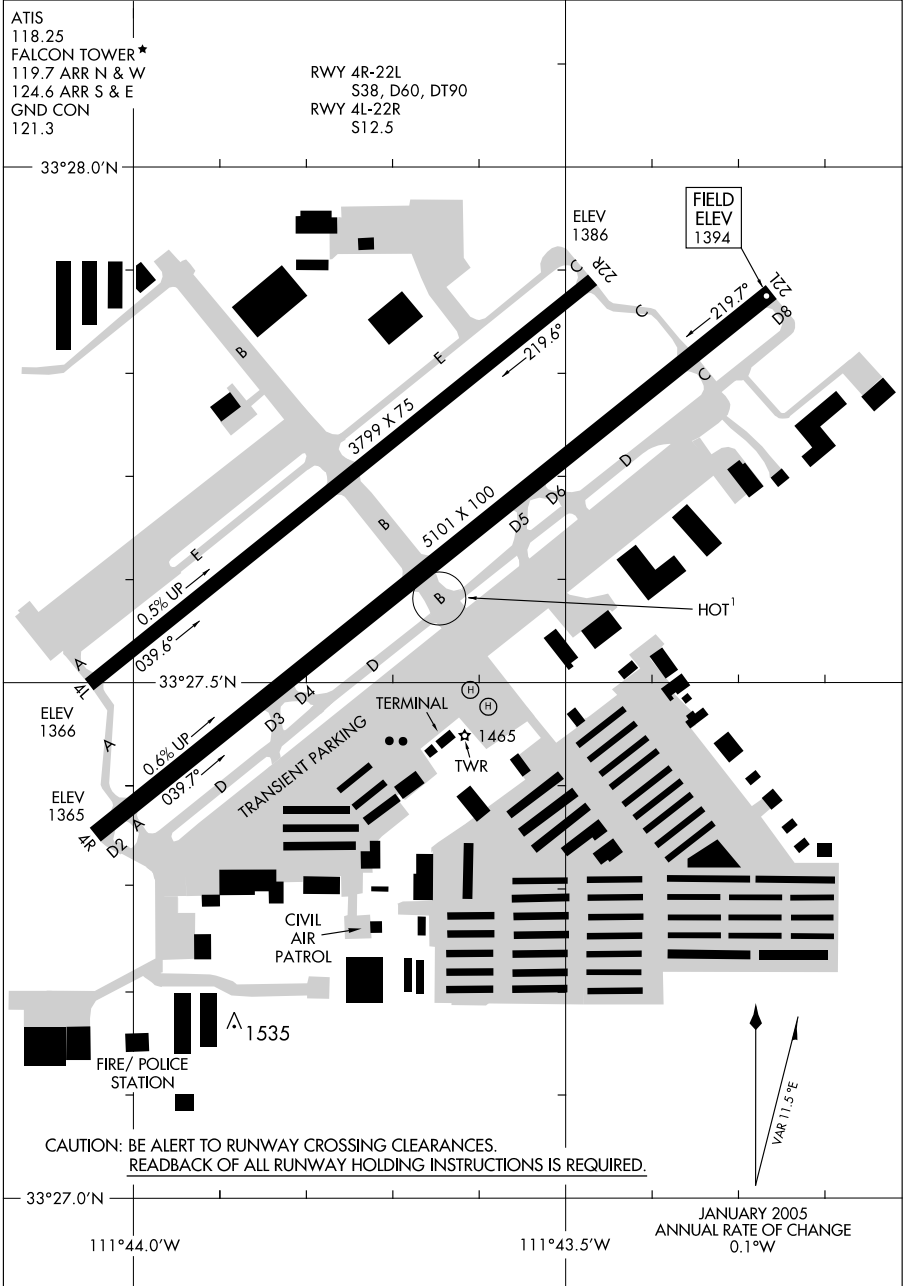
MERCED, CALIFORNIA
MERCED/CASTLE (MER)

10042

AIRPORT DIAGRAM

AL-6647 (FAA)

MESA/ FALCON FIELD (F'F'Z)
MESA, ARIZONA



AIRPORT DIAGRAM

10042

MESA, ARIZONA
MESA/ FALCON FIELD (F'F'Z)

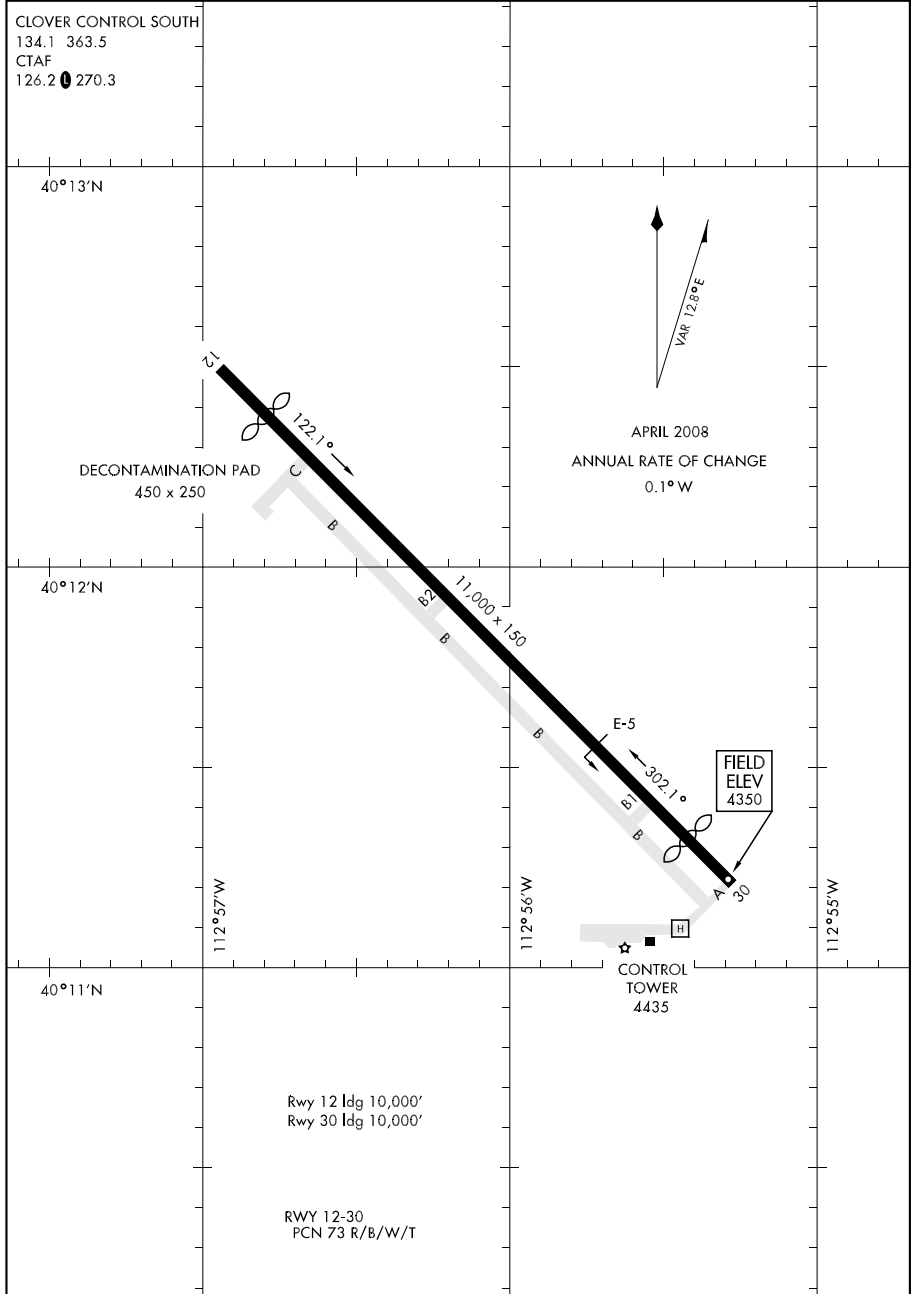
08101

AIRPORT DIAGRAM

AFD-5071 [USA]

MICHAEL AAF (KDPG)

DUGWAY PROVING GROUND, UTAH



AIRPORT DIAGRAM

DUGWAY PROVING GROUND, UTAH

MICHAEL AAF (KDPG)

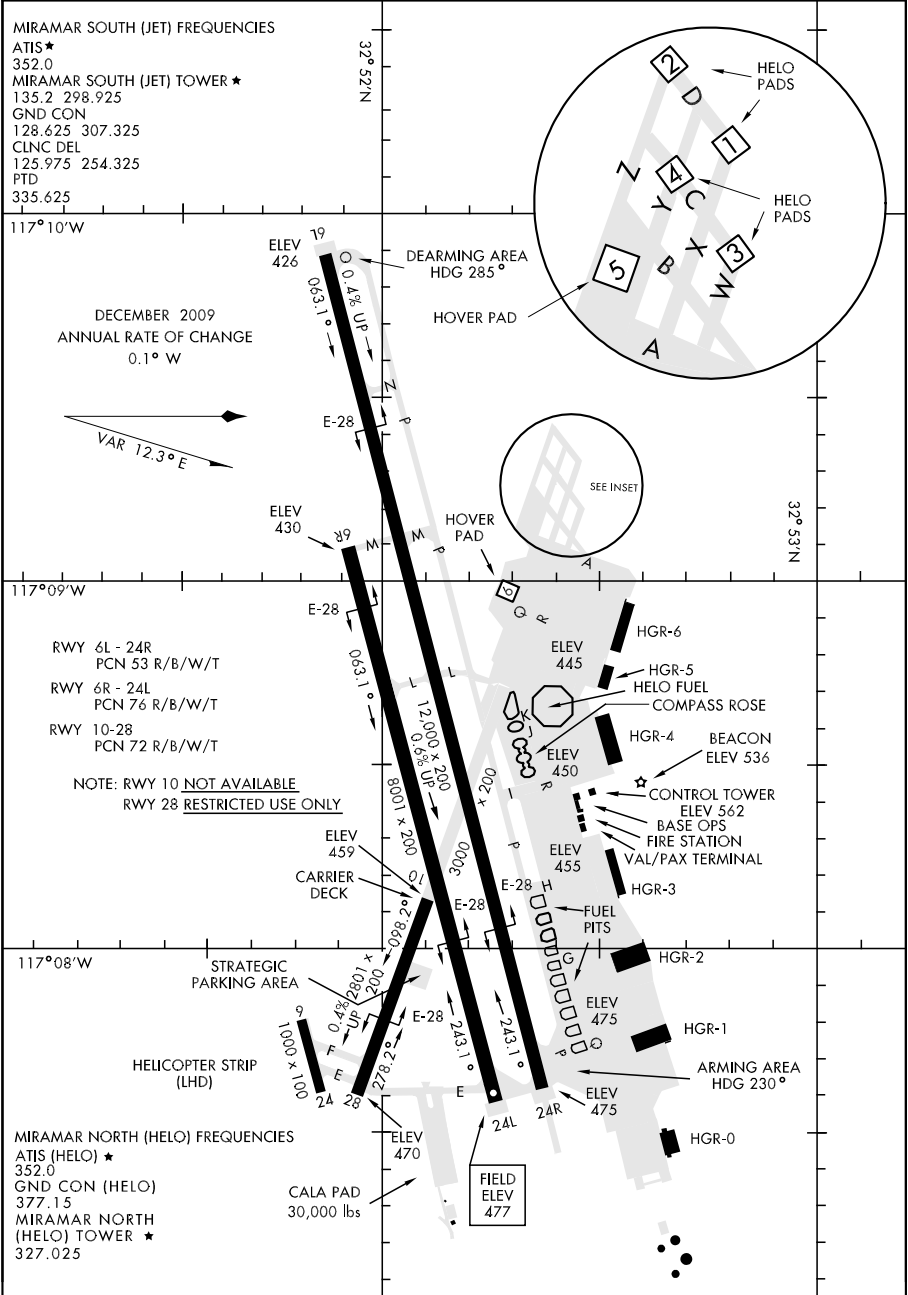
09351

MIRAMAR MCAS (MITSCHER FLD) (KNKX)

AIRPORT DIAGRAM

AL-903 [USN]

SAN DIEGO, CALIFORNIA



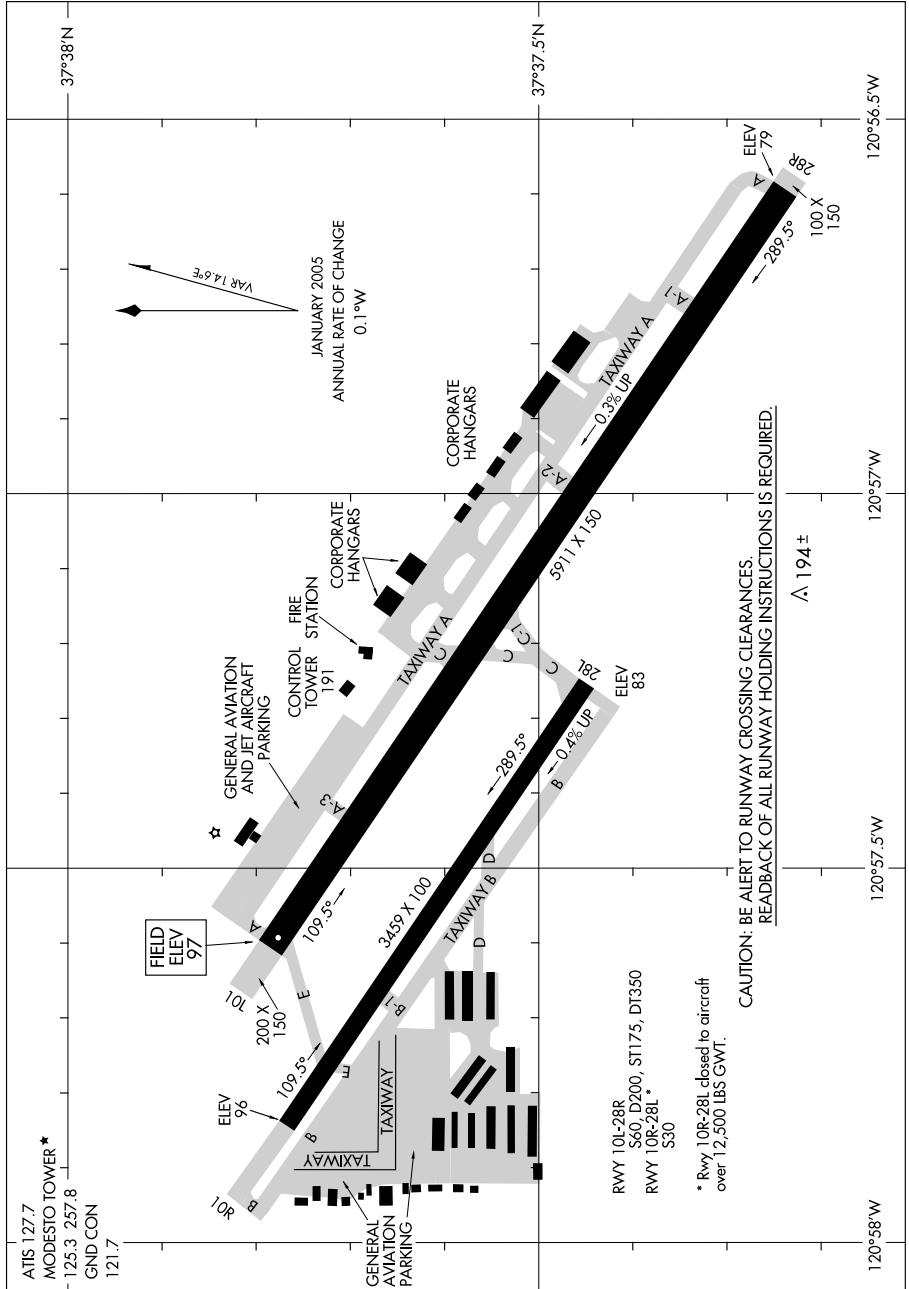
AIRPORT DIAGRAM

SAN DIEGO, CALIFORNIA
 MIRAMAR MCAS (MITSCHER FLD) (KNKX)

08045

AIRPORT DIAGRAM

MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)
AL-643 (FAA)
MODESTO, CALIFORNIA



AIRPORT DIAGRAM

08045

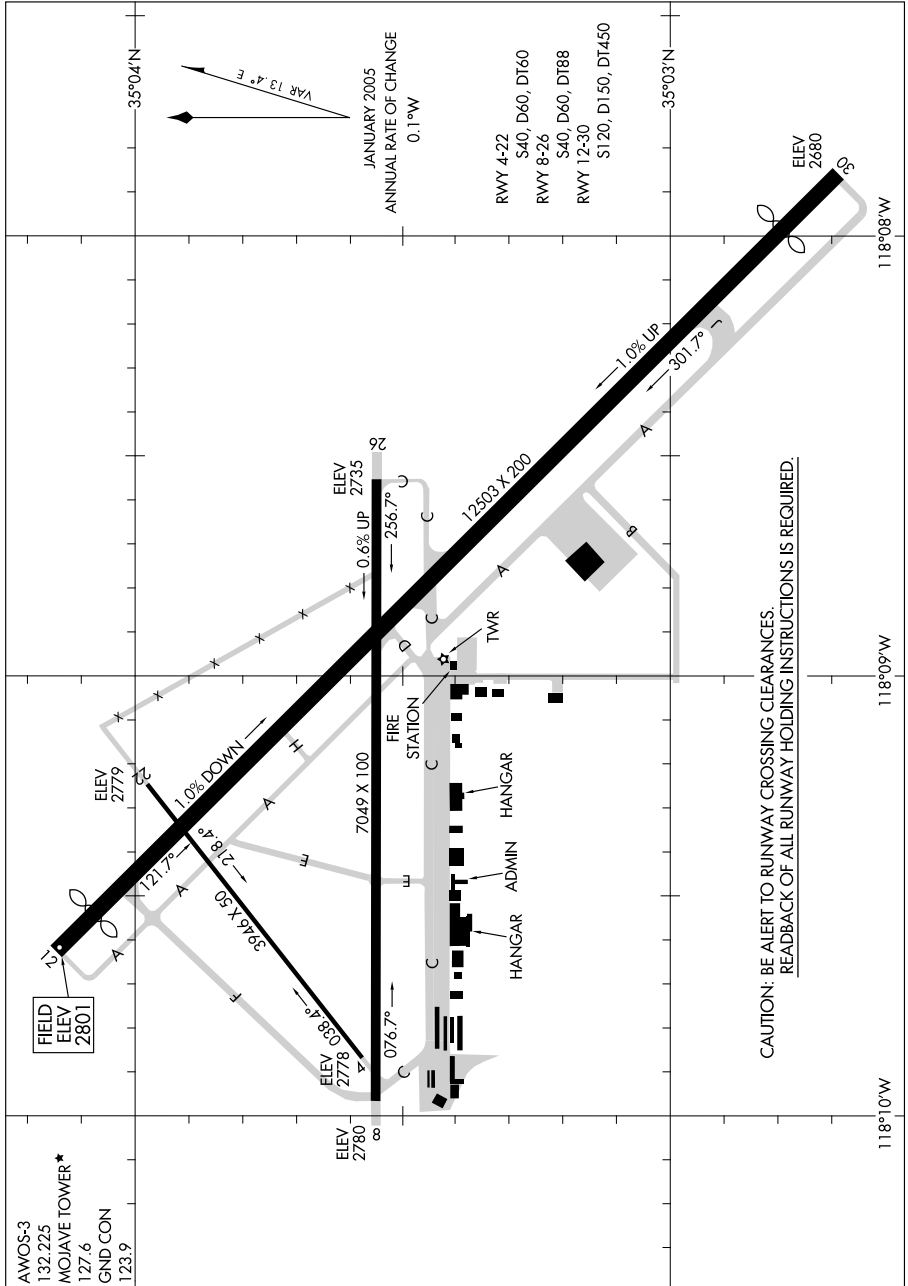
MODESTO, CALIFORNIA
MODESTO CITY-COUNTY-HARRY SHAM FIELD (MOD)

09295

AIRPORT DIAGRAM

AL-9353 (FAA)

MOJAVE (MHV)
MOJAVE, CALIFORNIA



AWOS-3
132.225
MOJAVE TOWER *
127.6
GND.CON
123.9

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

AIRPORT DIAGRAM

09295

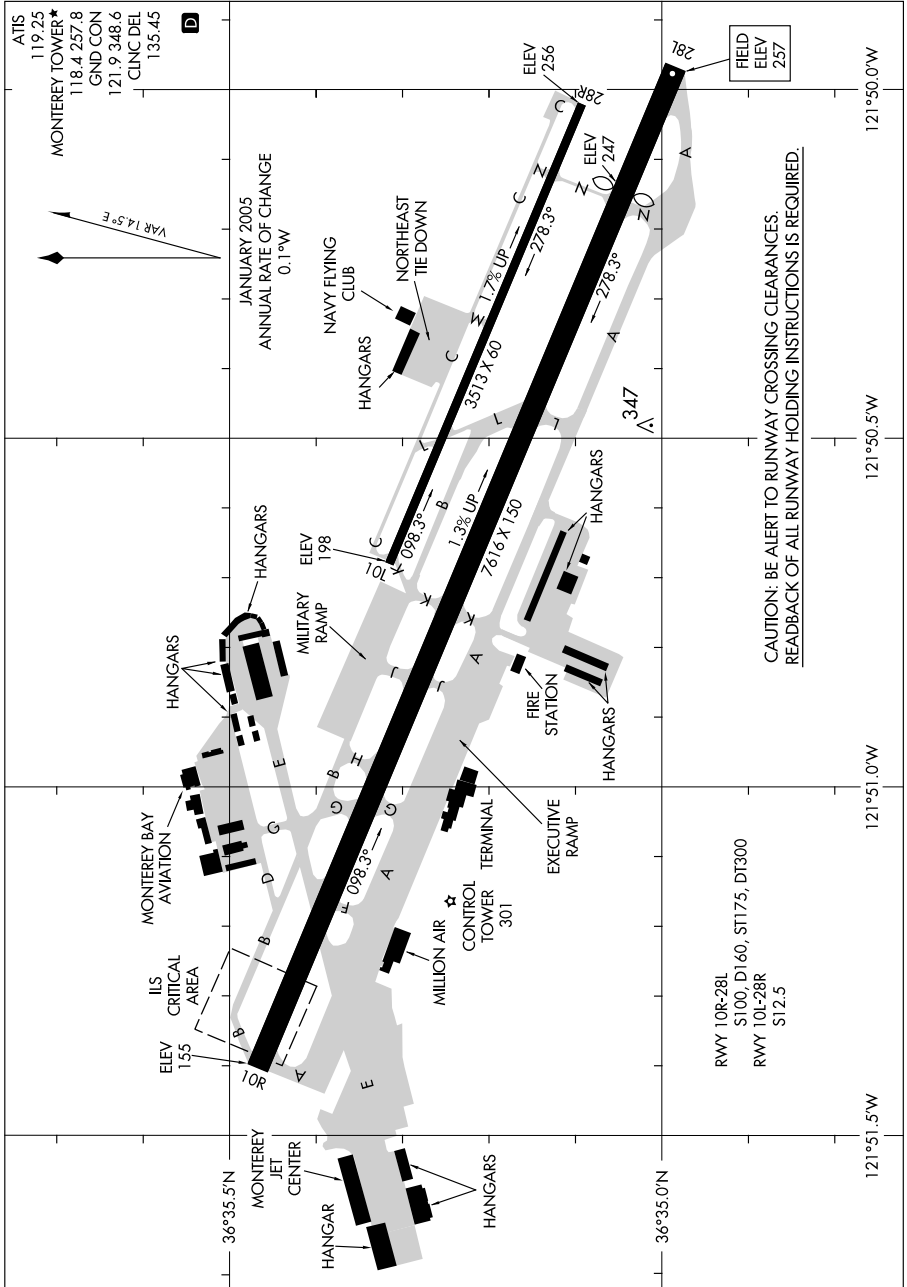
MOJAVE, CALIFORNIA
MOJAVE (MHV)

09071

AIRPORT DIAGRAM

AL-271 (FAA)

MONTEREY PENINSULA (MR Y)
MONTEREY, CALIFORNIA



AIRPORT DIAGRAM

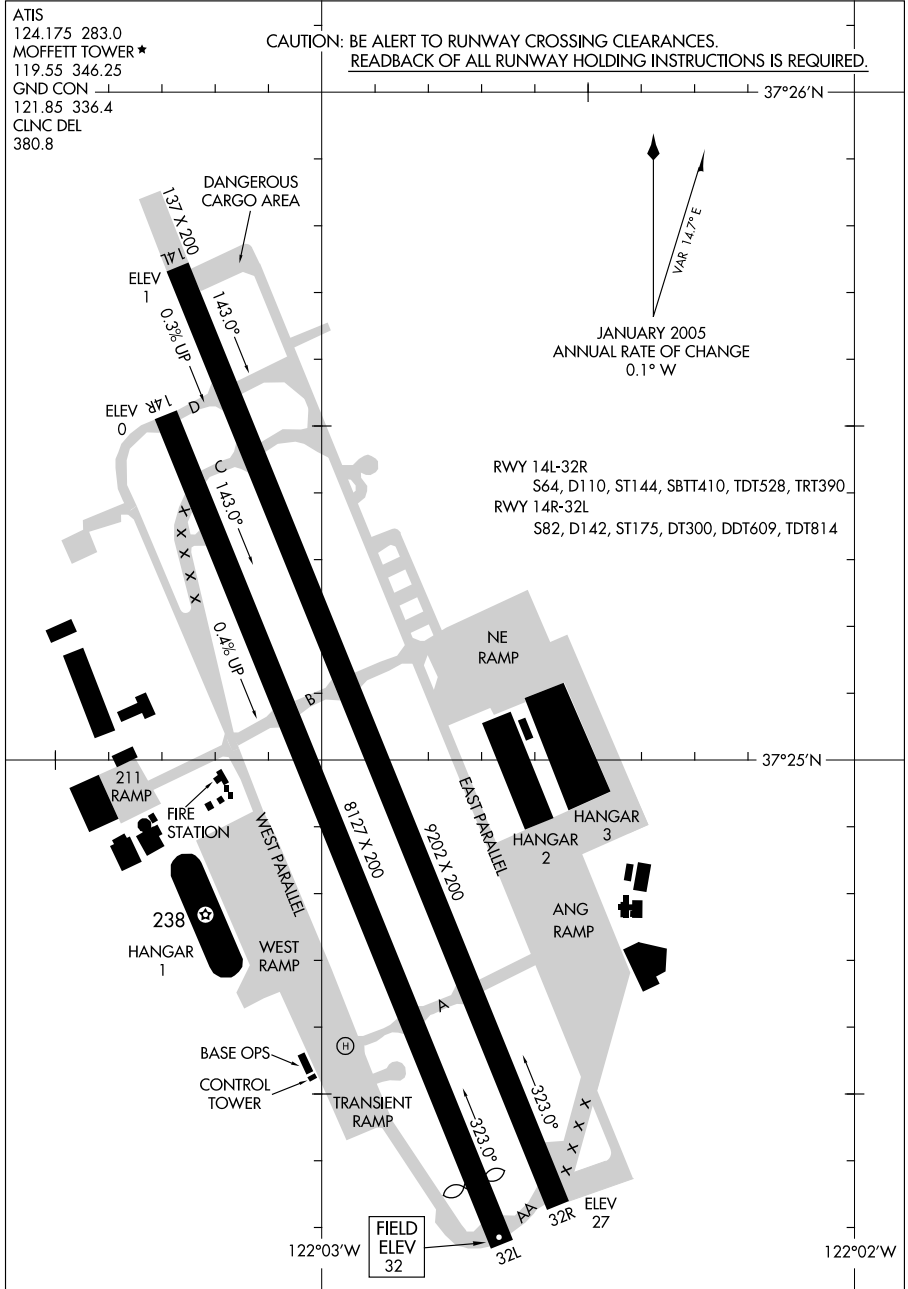
09071

MONTEREY, CALIFORNIA
MONTEREY PENINSULA (MR Y)

09071

AIRPORT DIAGRAM

MOUNTAIN VIEW/MOFFETT FEDERAL AIRFIELD (NUQ)
AL-410 (FAA) MOUNTAIN VIEW, CALIFORNIA



AIRPORT DIAGRAM

MOUNTAIN VIEW, CALIFORNIA
MOUNTAIN VIEW/MOFFETT FEDERAL AIRFIELD (NUQ)

09071

10098

AIRPORT DIAGRAM

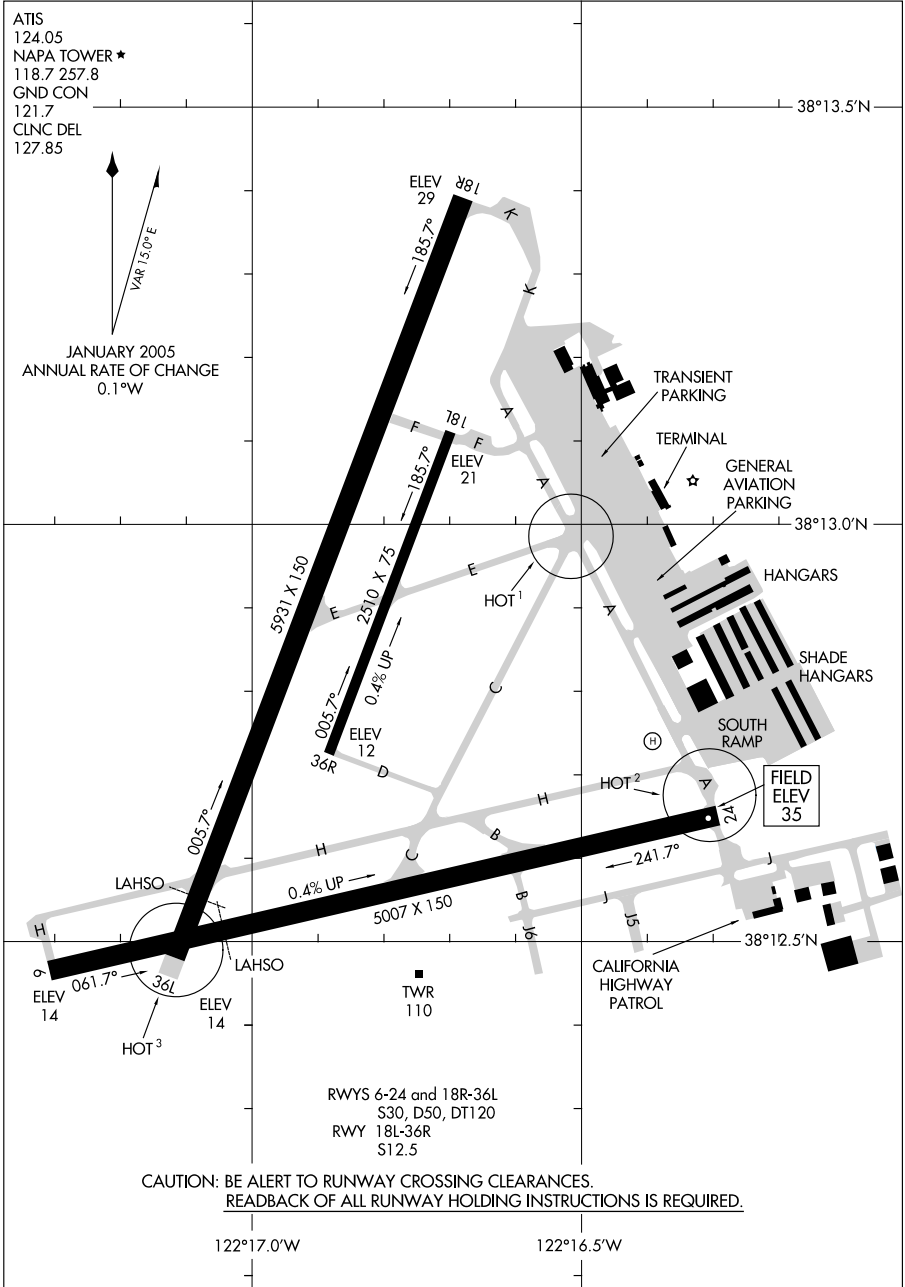
AL-281 (FAA)

NAPA COUNTY (APC)
NAPA, CALIFORNIA

ATIS
 124.05
 NAPA TOWER ★
 118.7 257.8
 GND CON
 121.7
 CLNC DEL
 127.85



JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.1°W



AIRPORT DIAGRAM

10098

NAPA, CALIFORNIA
NAPA COUNTY (APC)

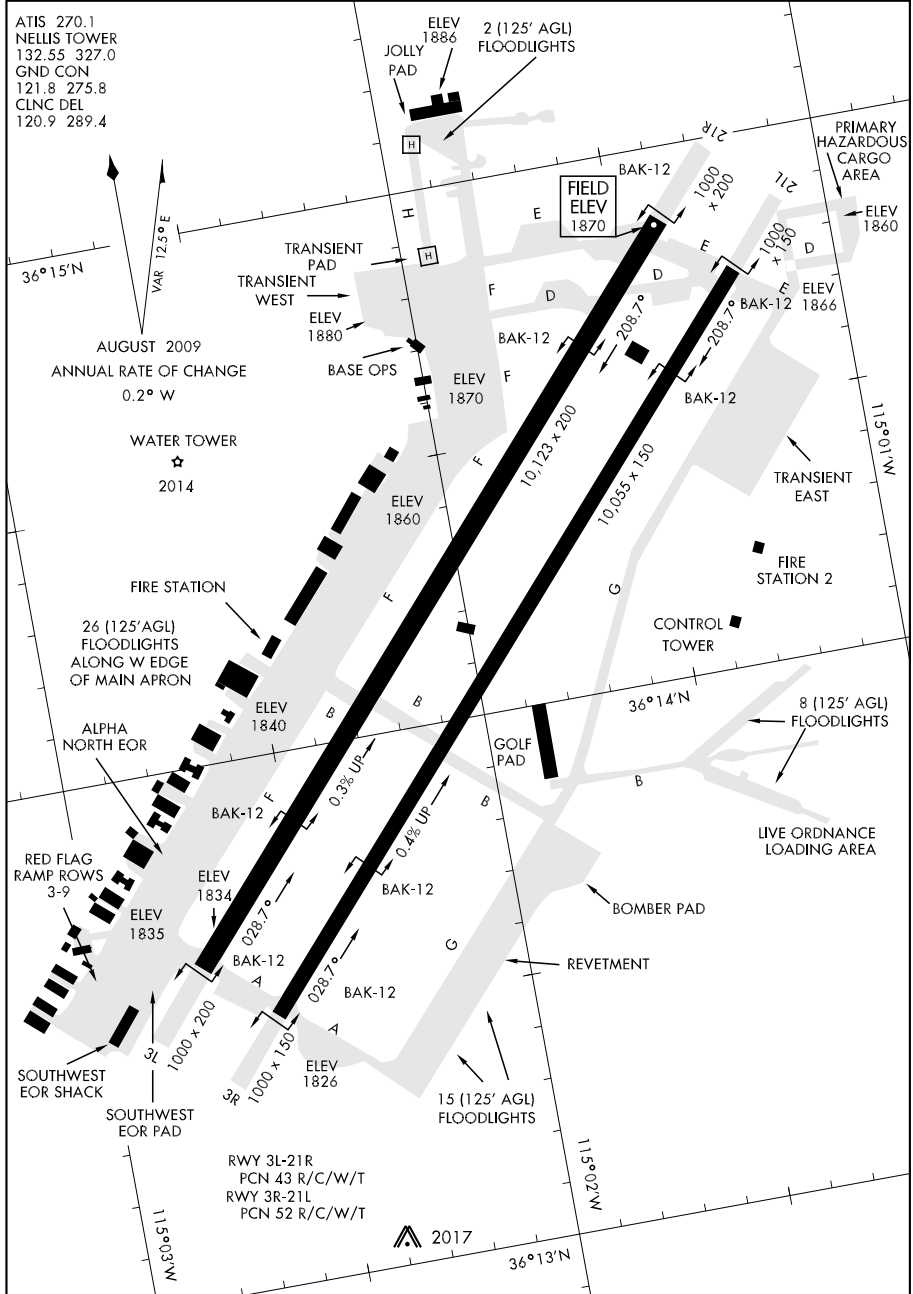
09239

NELLIS AFB (KLSV)

AIRPORT DIAGRAM

AFD-227 [USAF]

LAS VEGAS, NEVADA



AIRPORT DIAGRAM

LAS VEGAS, NEVADA

NELLIS AFB (KLSV)

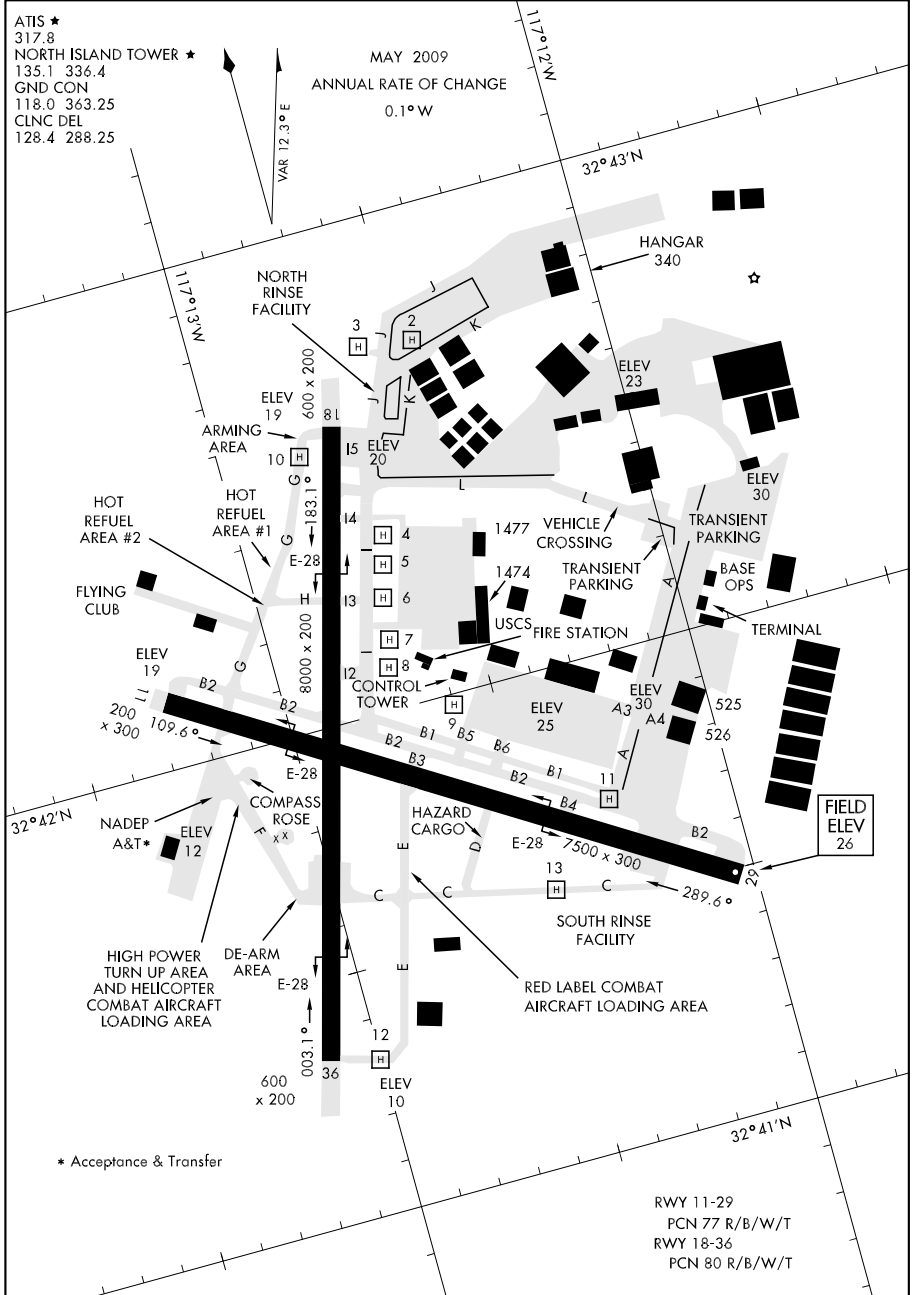
09127

NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

AIRPORT DIAGRAM

AFD-374 [USN]

SAN DIEGO, CALIFORNIA



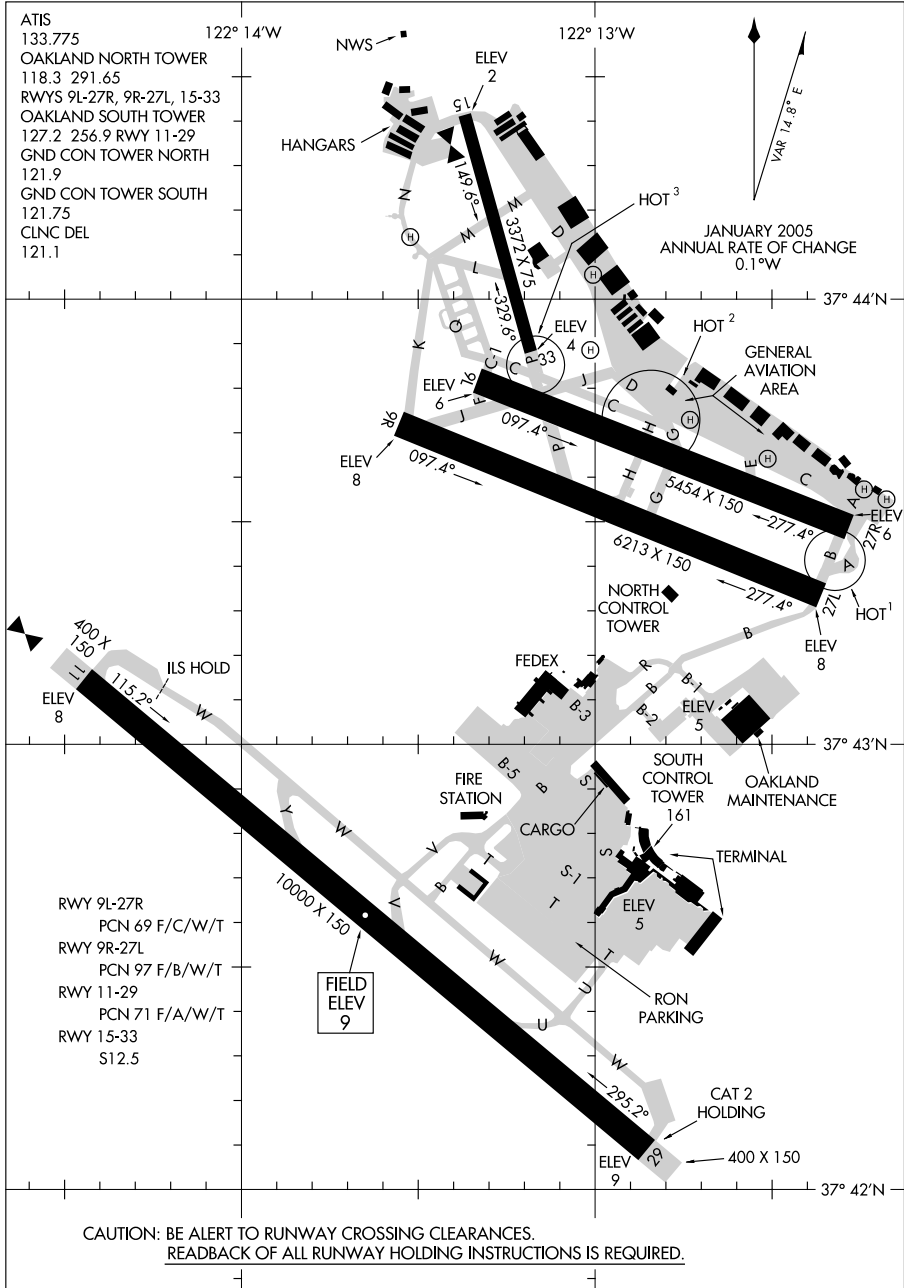
AIRPORT DIAGRAM

SAN DIEGO, CALIFORNIA
NORTH ISLAND NAS (HALSEY FIELD) (KNZY)

10042

AIRPORT DIAGRAM

OAKLAND/METROPOLITAN OAKLAND INTL (OAK)
AL-294 (FAA) OAKLAND, CALIFORNIA



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

AIRPORT DIAGRAM

OAKLAND, CALIFORNIA
OAKLAND/METROPOLITAN OAKLAND INTL (OAK)

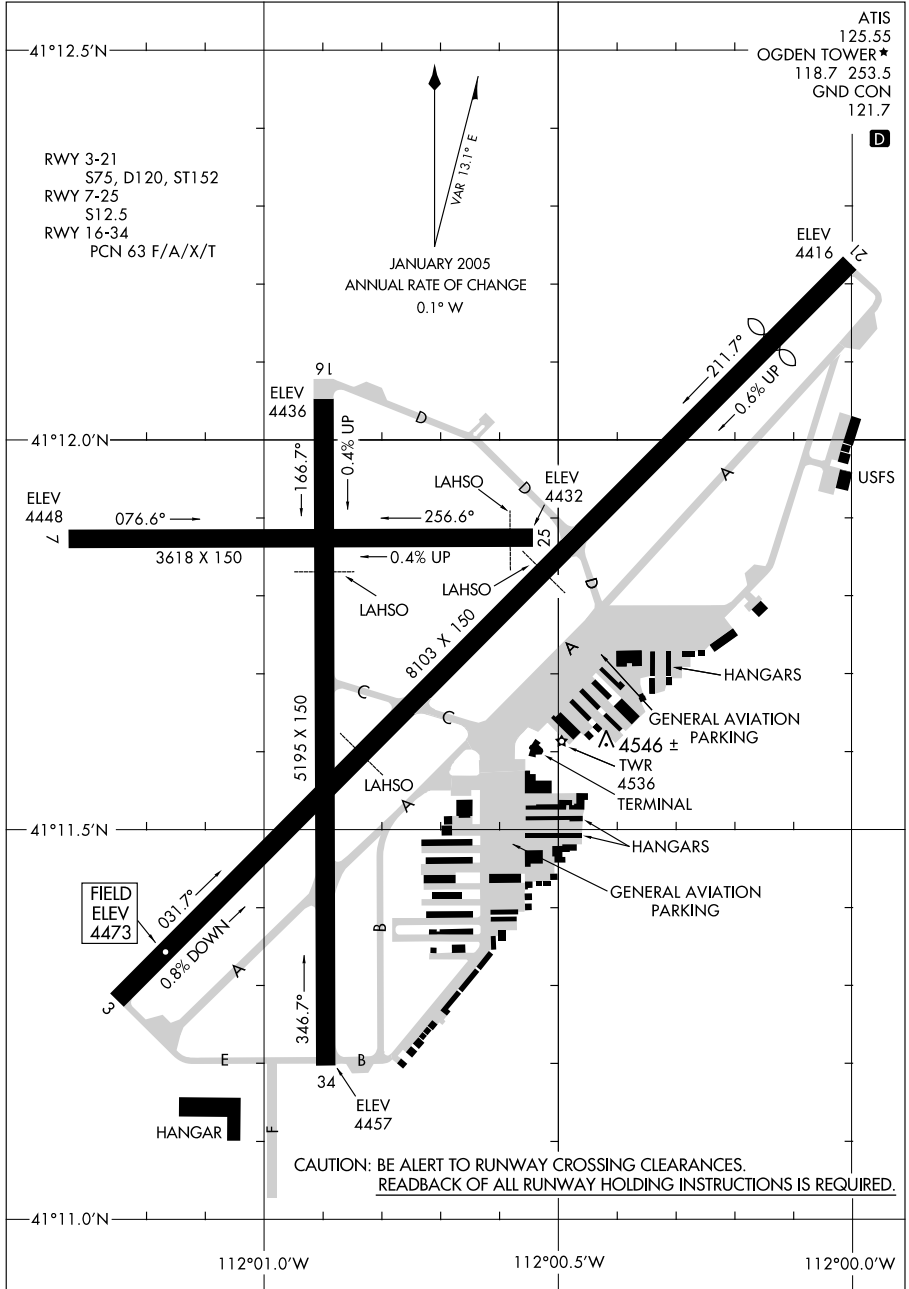
10042

09351

AIRPORT DIAGRAM

AL-297 (FAA)

OGDEN-HINCKLEY (OGD)
OGDEN, UTAH



AIRPORT DIAGRAM

09351

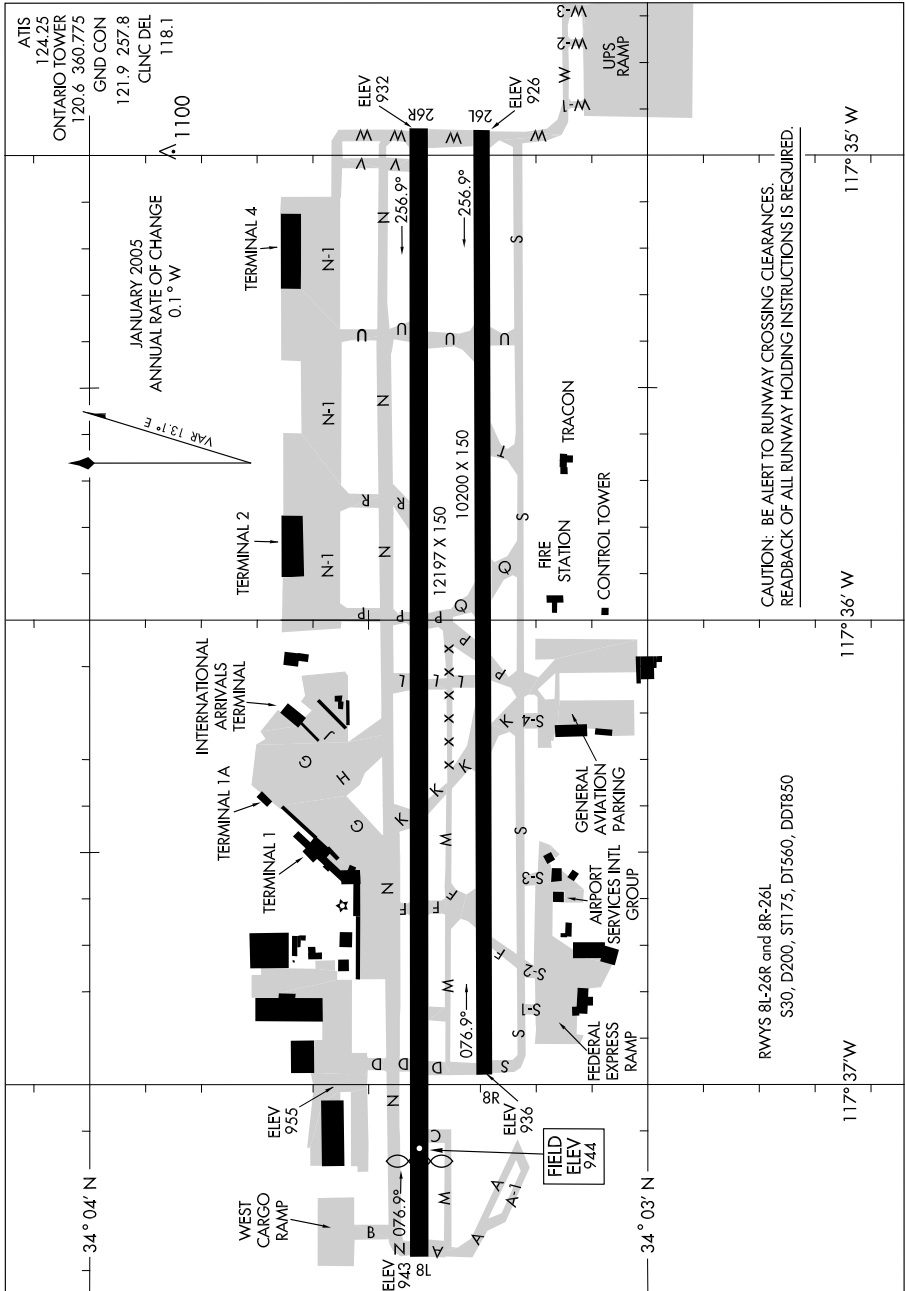
OGDEN, UTAH
OGDEN-HINCKLEY (OGD)

09239

AIRPORT DIAGRAM

AL-965 (FAA)

ONTARIO INTL (ONT)
ONTARIO, CALIFORNIA



AIRPORT DIAGRAM

09239

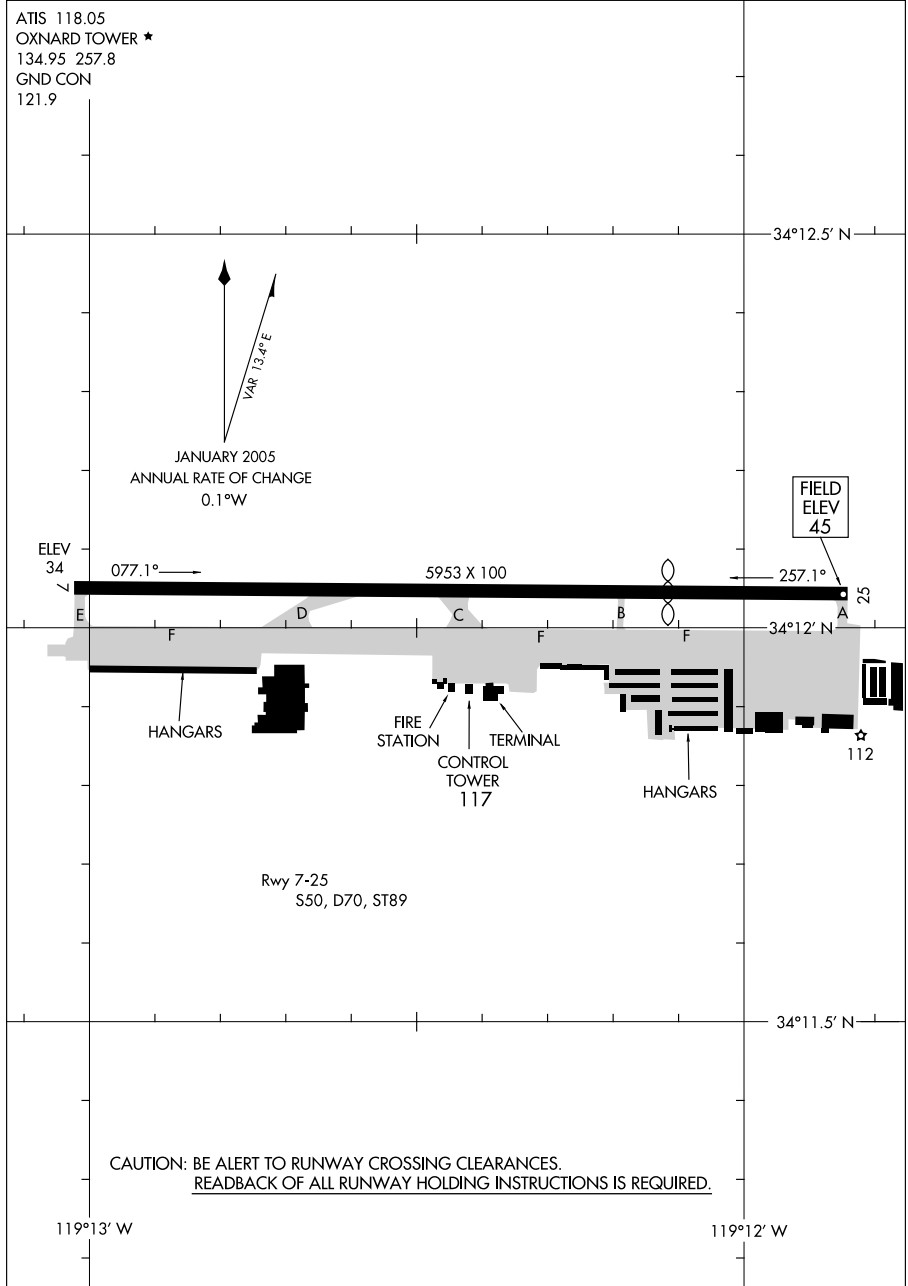
ONTARIO, CALIFORNIA
ONTARIO INTL (ONT)

08325

AIRPORT DIAGRAM

AL-674 (FAA)

OXNARD (OXR)
OXNARD, CALIFORNIA



AIRPORT DIAGRAM

08325

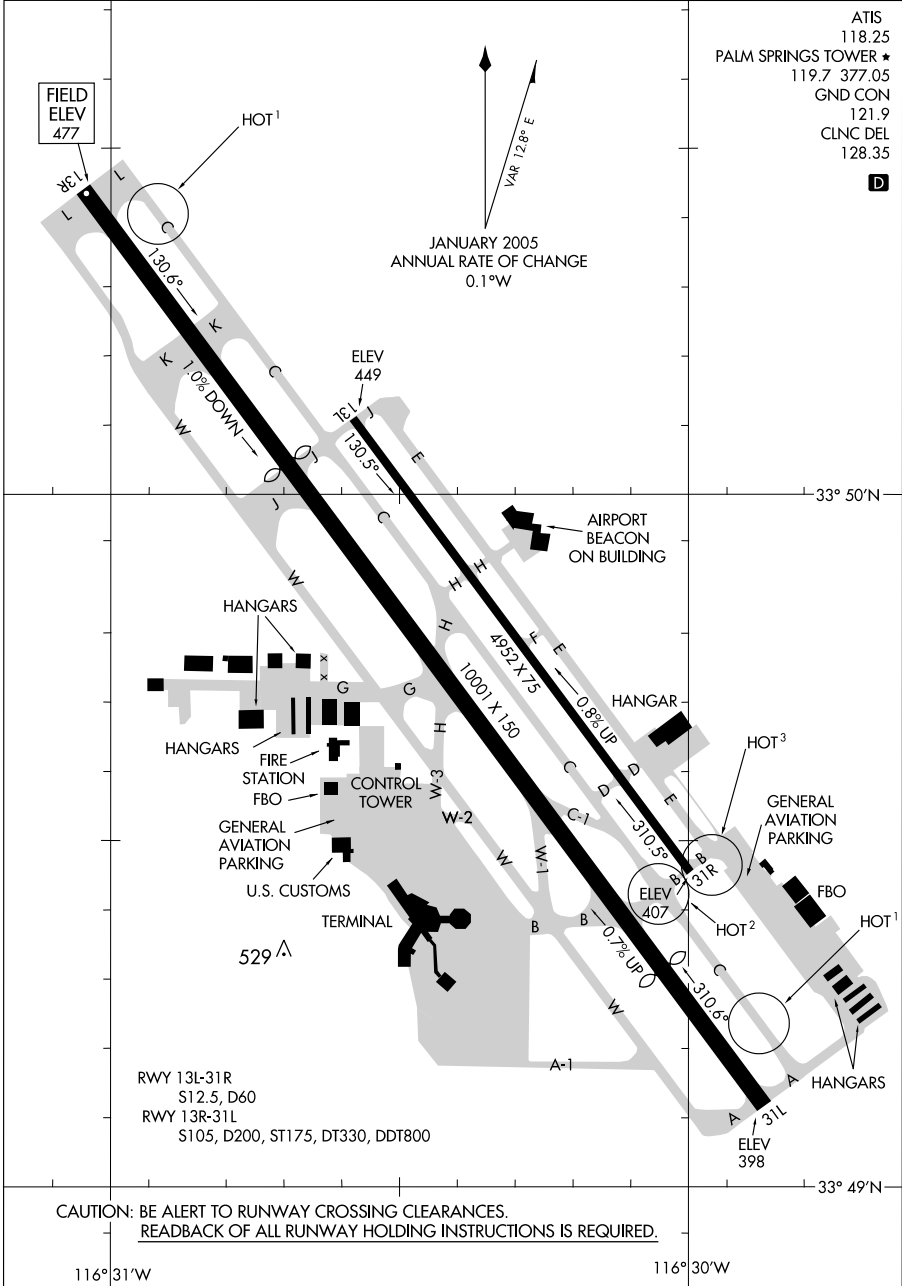
OXNARD, CALIFORNIA
OXNARD (OXR)

09351

AIRPORT DIAGRAM

PALM SPRINGS INTL (PSP)
PALM SPRINGS, CALIFORNIA

AL-545 (FAA)



ATIS 118.25
 PALM SPRINGS TOWER ★ 119.7 377.05
 GND CON 121.9
 CLNC DEL 128.35

D

AIRPORT DIAGRAM

PALM SPRINGS, CALIFORNIA
PALM SPRINGS INTL (PSP)

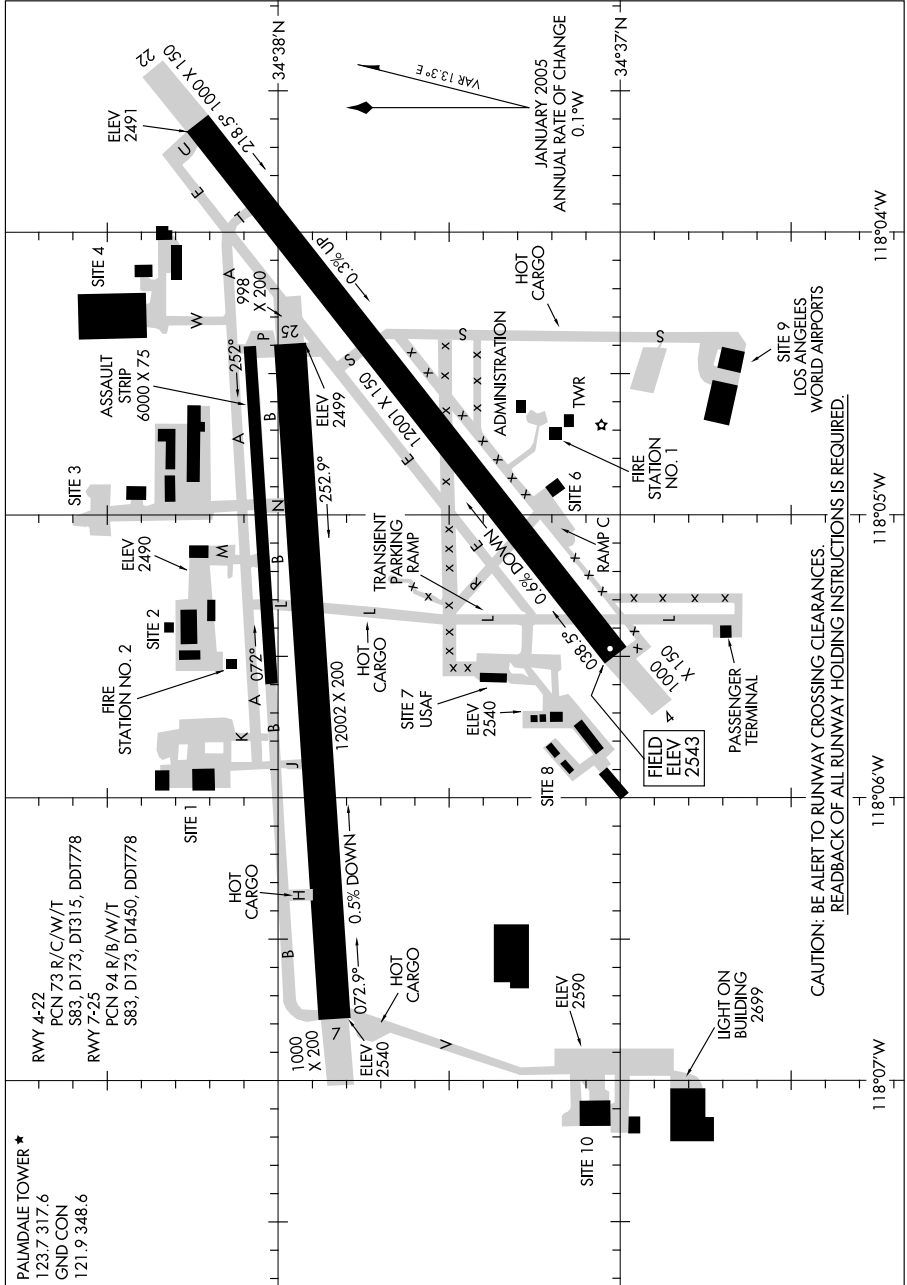
09351

10042

AIRPORT DIAGRAM

AL-310 (FAA)

PALMDALE RGNL/USAF PLANT 42 (PMD)
PALMDALE, CALIFORNIA



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

AIRPORT DIAGRAM

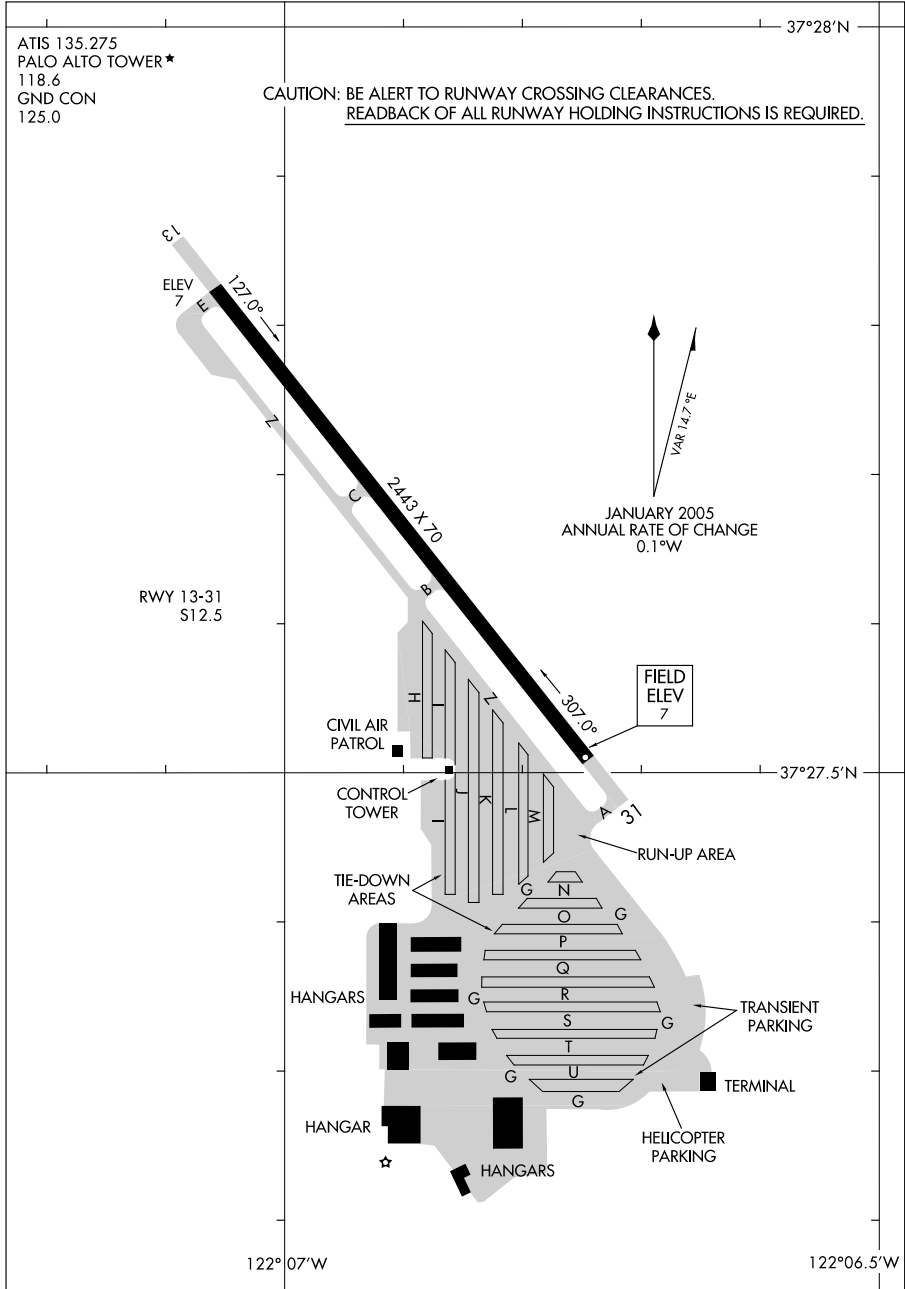
10042

PALMDALE, CALIFORNIA
PALMDALE RGNL/USAF PLANT 42 (PMD)

08213

AIRPORT DIAGRAM

PALO ALTO AIRPORT OF SANTA CLARA COUNTY (P.A.O)
AL-9216 (FAA) PALO ALTO, CALIFORNIA



AIRPORT DIAGRAM

08213

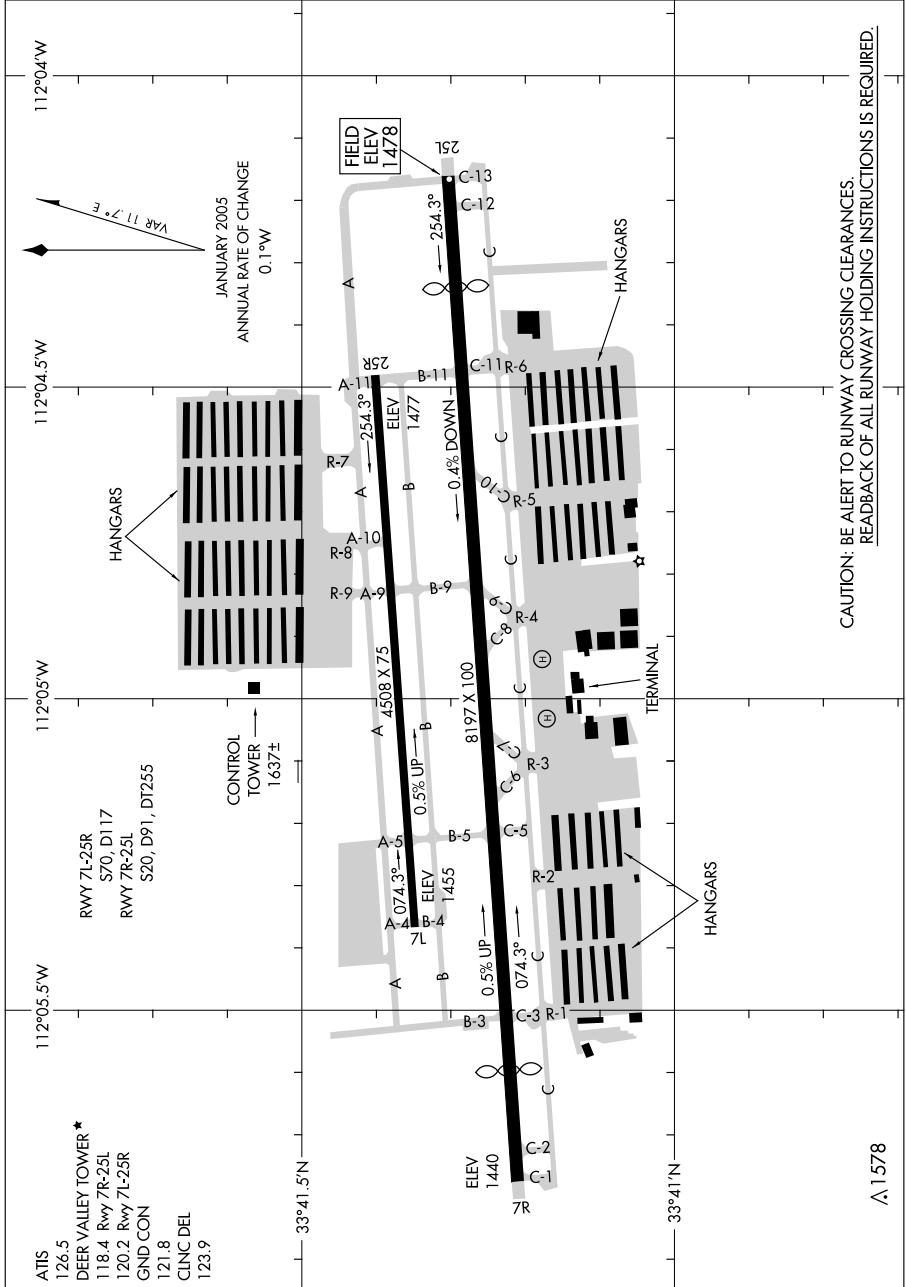
PALO ALTO, CALIFORNIA
PALO ALTO AIRPORT OF SANTA CLARA COUNTY (P.A.O)

09071

AIRPORT DIAGRAM

AL-6646 (FAA)

PHOENIX DEER VALLEY (DVT)
PHOENIX, ARIZONA



AIRPORT DIAGRAM

09071

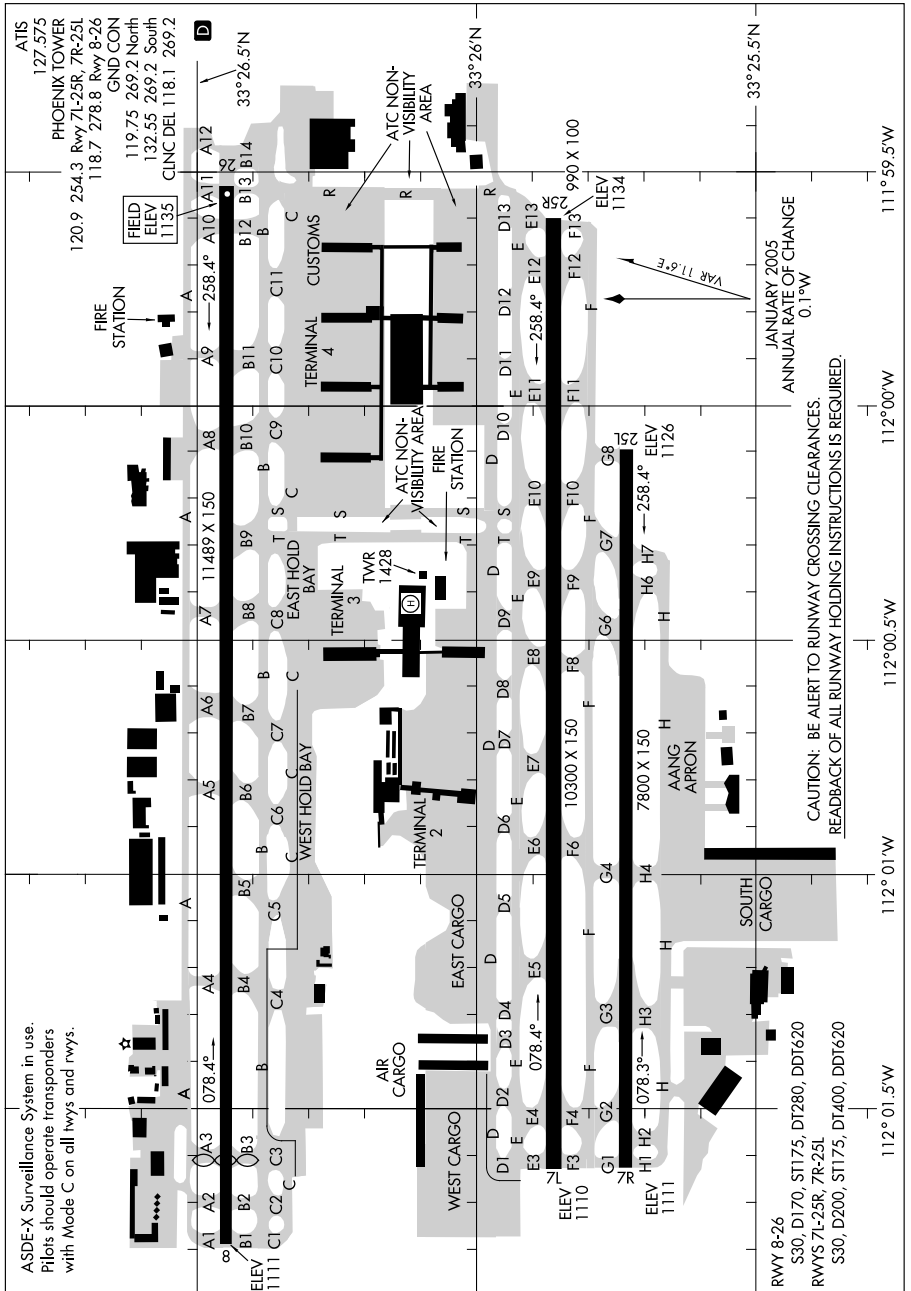
PHOENIX, ARIZONA
PHOENIX DEER VALLEY (DVT)

10098

AIRPORT DIAGRAM

PHOENIX SKY HARBOR INTL (PHX)

PHOENIX, ARIZONA



AIRPORT DIAGRAM

PHOENIX, ARIZONA

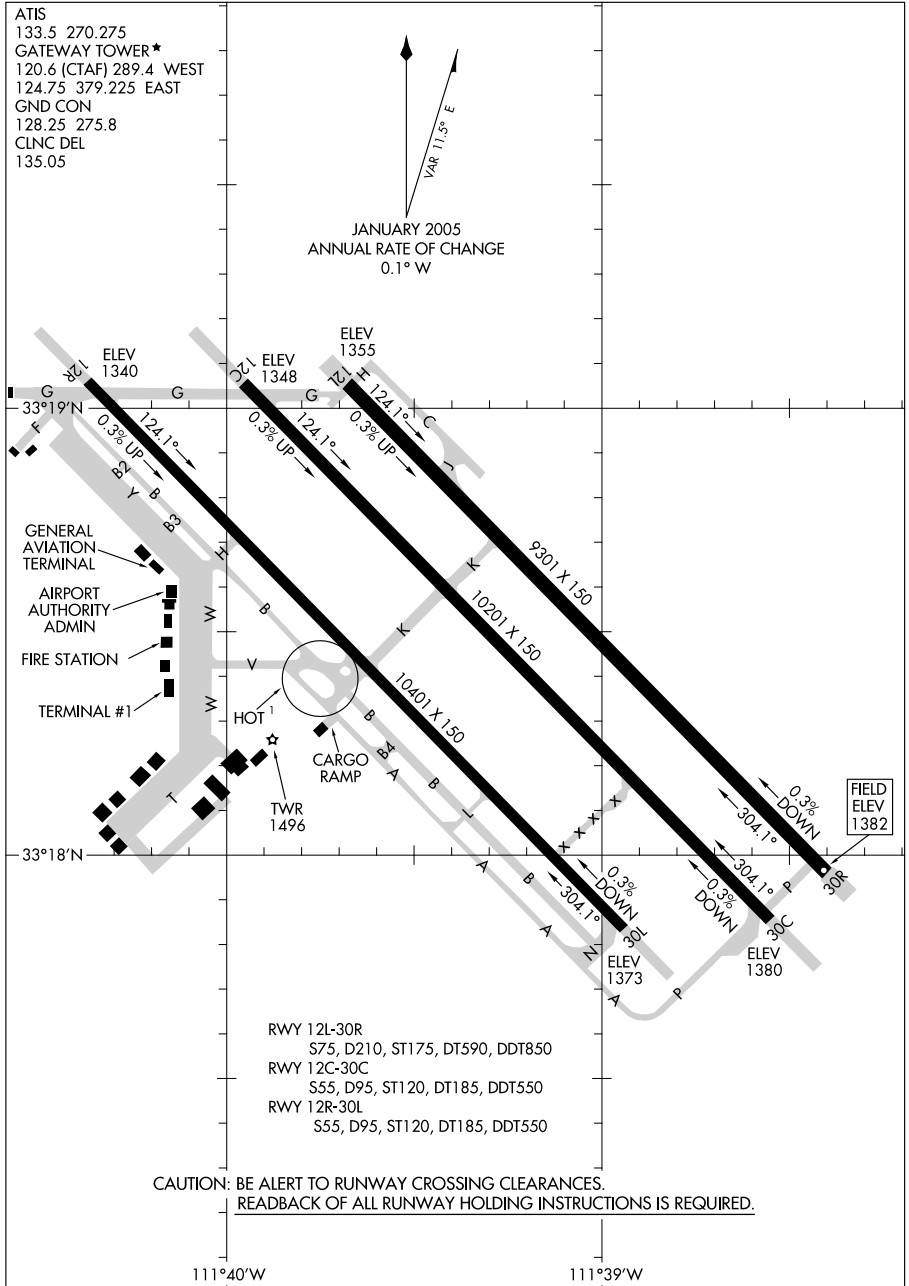
PHOENIX SKY HARBOR INTL (PHX)

10098

10098

AIRPORT DIAGRAM

PHOENIX-MESA GATEWAY (IWA)
PHOENIX, ARIZONA



AIRPORT DIAGRAM

10098

PHOENIX, ARIZONA
PHOENIX-MESA GATEWAY (IWA)

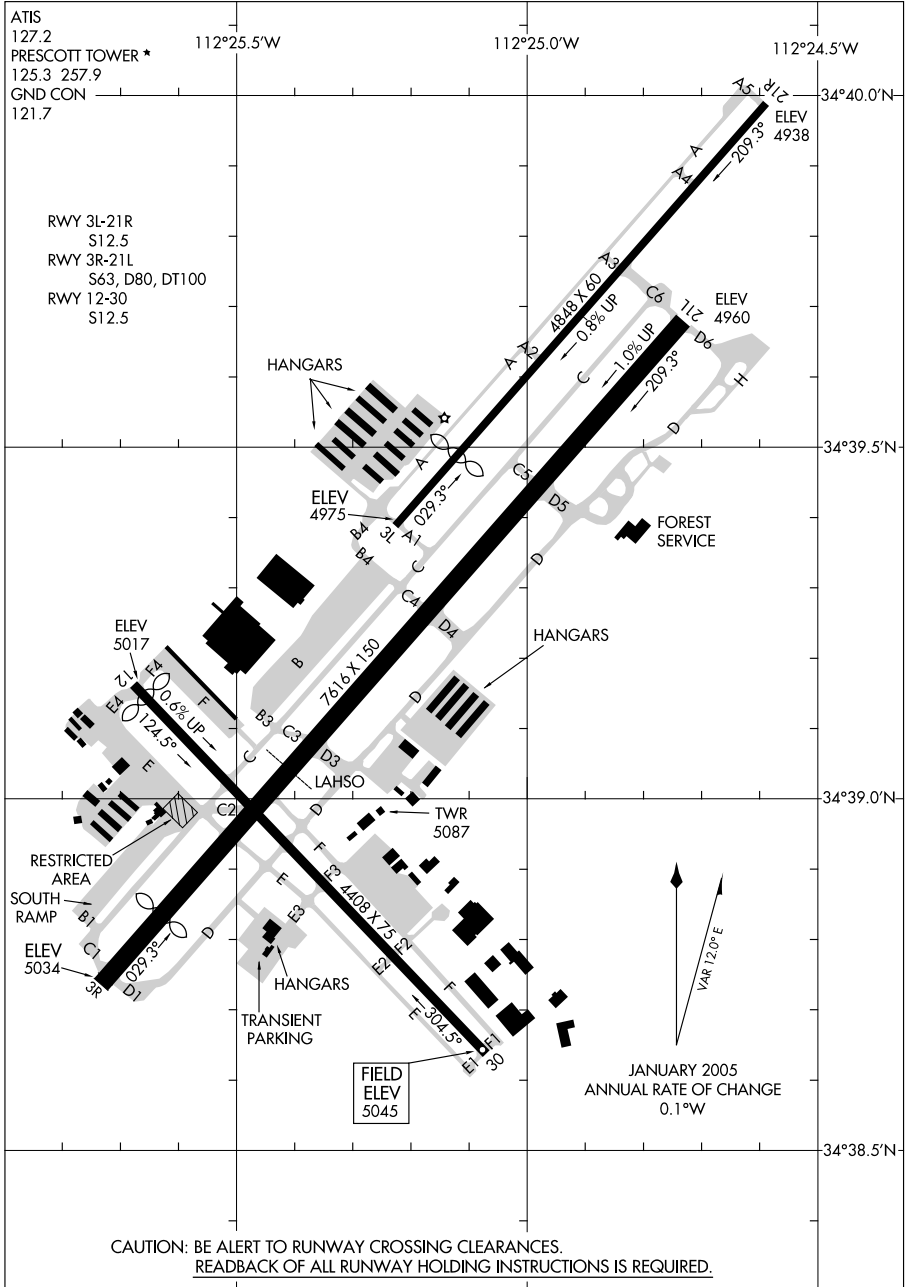
10098

AIRPORT DIAGRAM

AL-546 (FAA)

PRESCOTT/ ERNEST A. LOVE FIELD (PRC)

PRESCOTT, ARIZONA



AIRPORT DIAGRAM

PRESCOTT, ARIZONA
PRESCOTT/ ERNEST A. LOVE FIELD (PRC)

10098

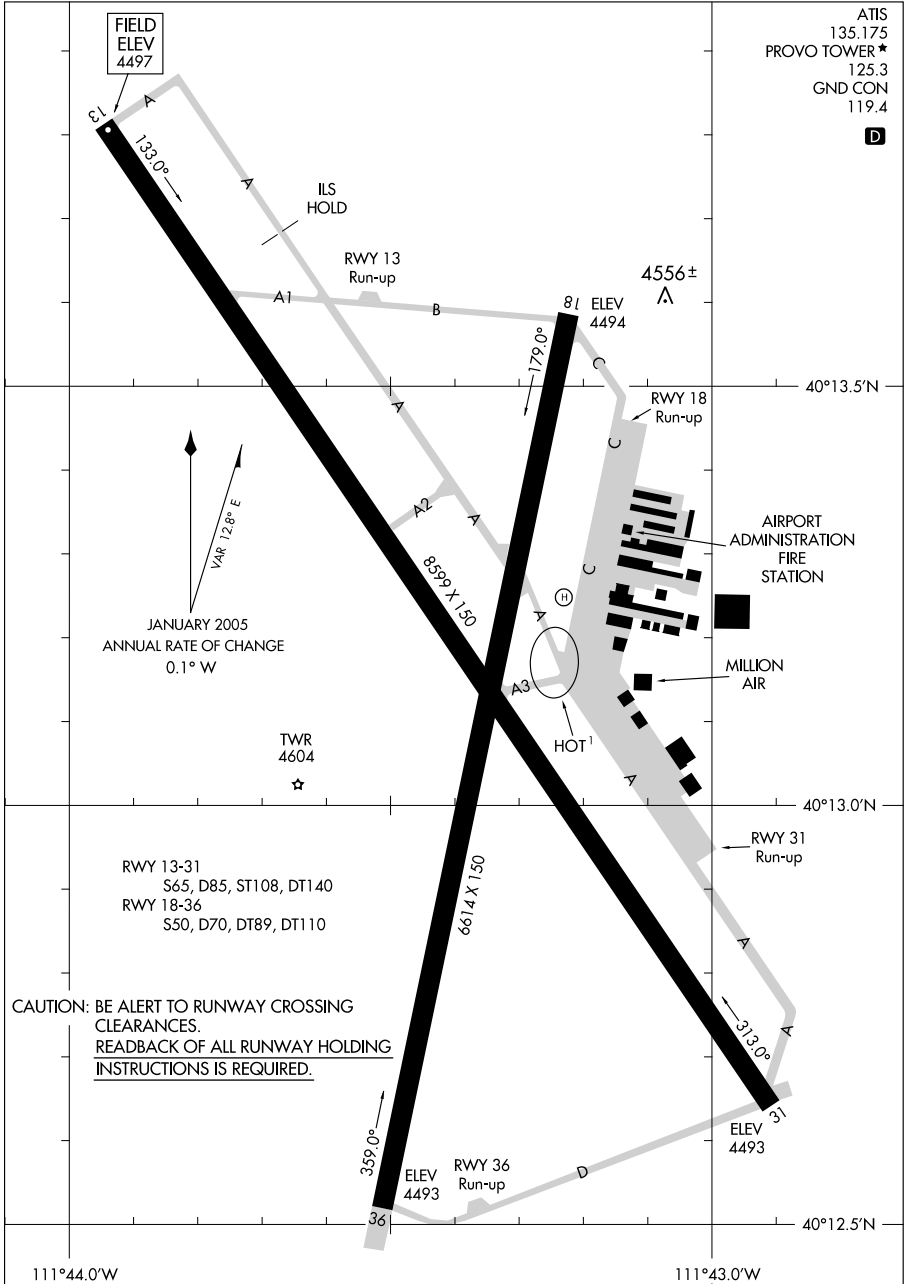
10098

AIRPORT DIAGRAM

AL-683 (FAA)

PROVO MUNI (PVTU)

PROVO, UTAH



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

AIRPORT DIAGRAM

10098

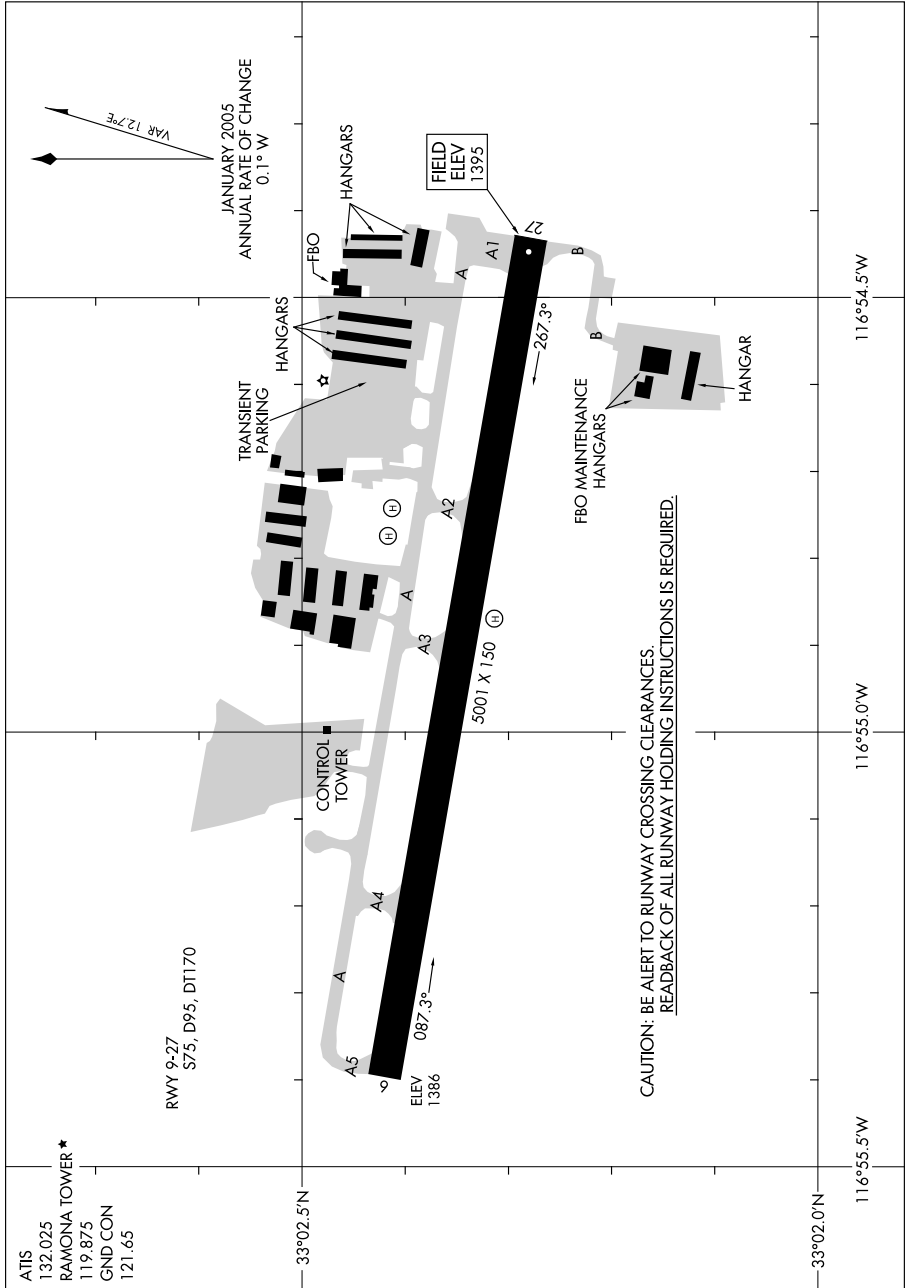
PROVO, UTAH
PROVO MUNI (PVTU)

09239

AIRPORT DIAGRAM

AL-6667 (FAA)

RAMONA (R.NM)
RAMONA, CALIFORNIA



AIRPORT DIAGRAM

09239

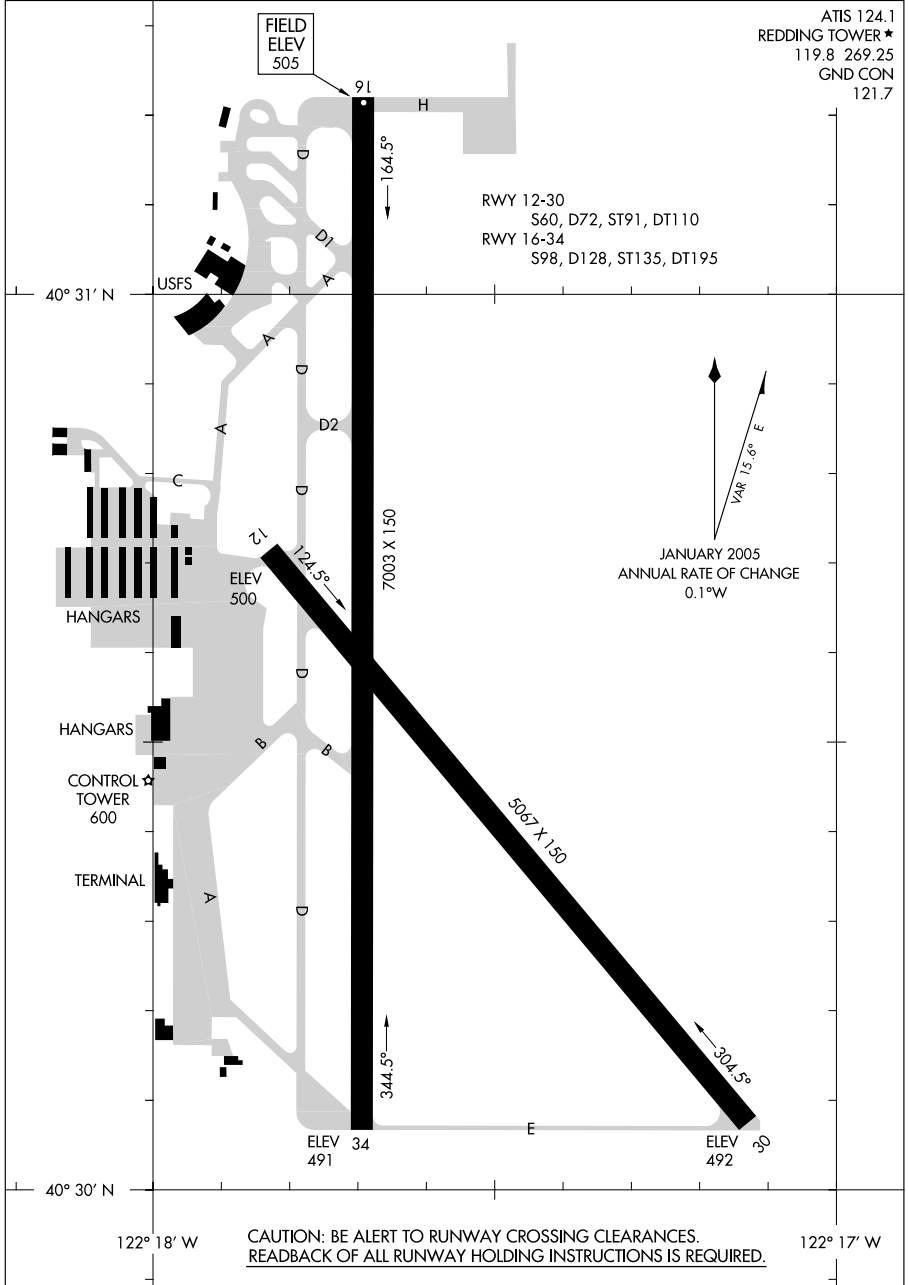
RAMONA, CALIFORNIA
RAMONA (R.NM)

08325

AIRPORT DIAGRAM

AL-688 (FAA)

REDDING MUNI (RDD)
REDDING, CALIFORNIA



AIRPORT DIAGRAM

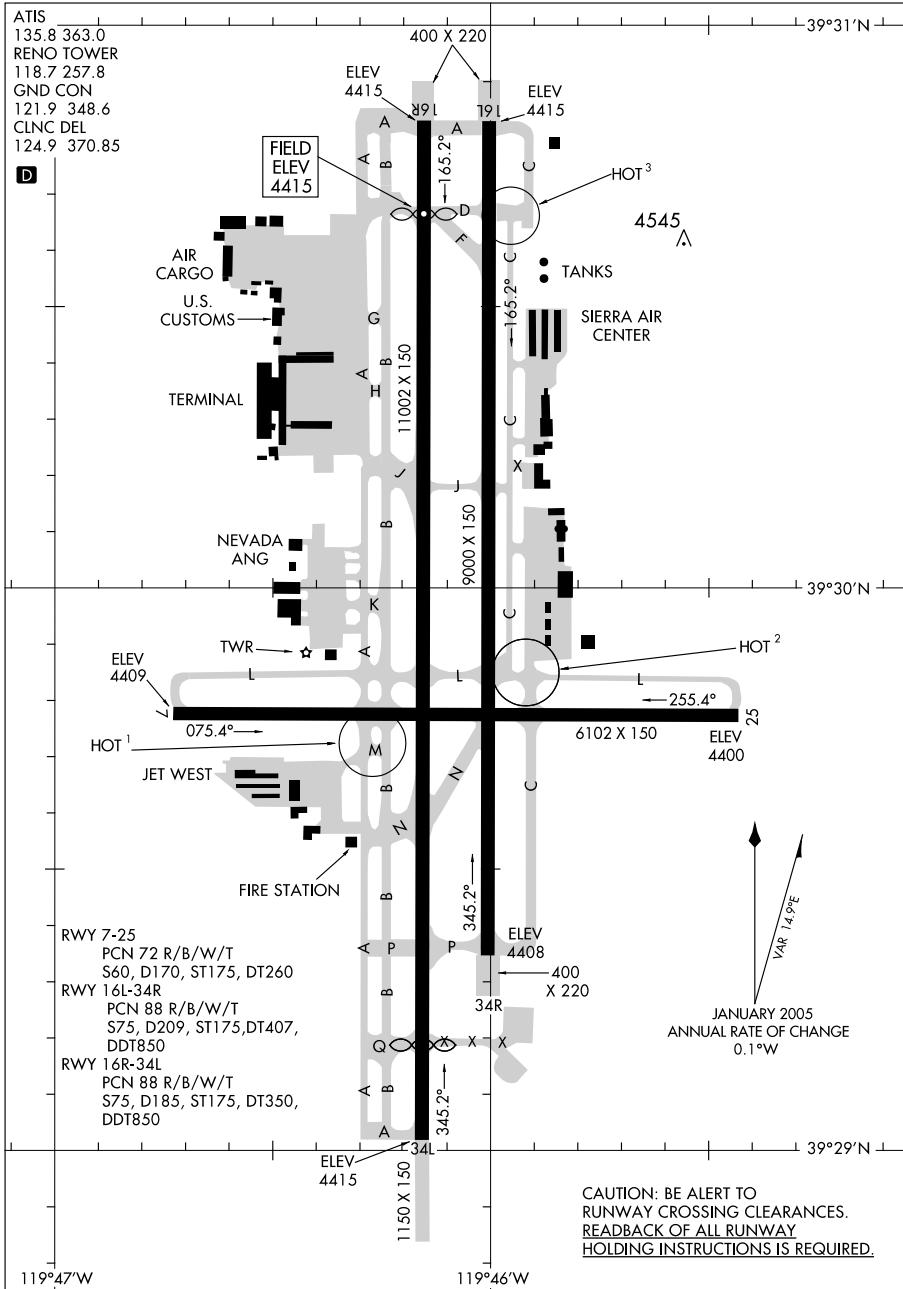
08325

REDDING, CALIFORNIA
REDDING MUNI (RDD)

09295

AIRPORT DIAGRAM

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



AIRPORT DIAGRAM

09295

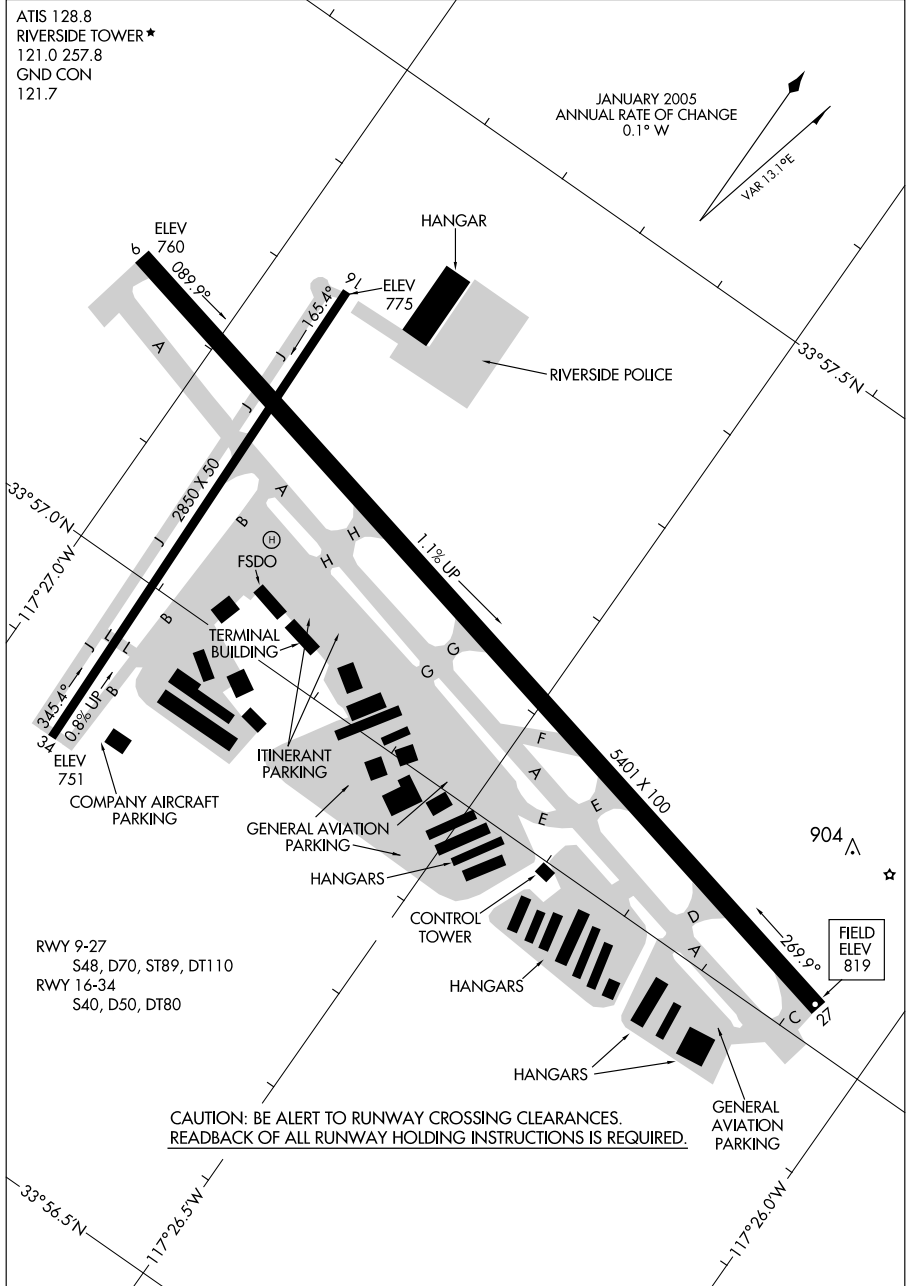
RENO, NEVADA
RENO/TAHOE INTL (R.NO)

07354

AIRPORT DIAGRAM

RIVERSIDE MUNI (R.A.L)
RIVERSIDE, CALIFORNIA

AL-769 (FAA)



AIRPORT DIAGRAM

RIVERSIDE, CALIFORNIA
RIVERSIDE MUNI (R.A.L)

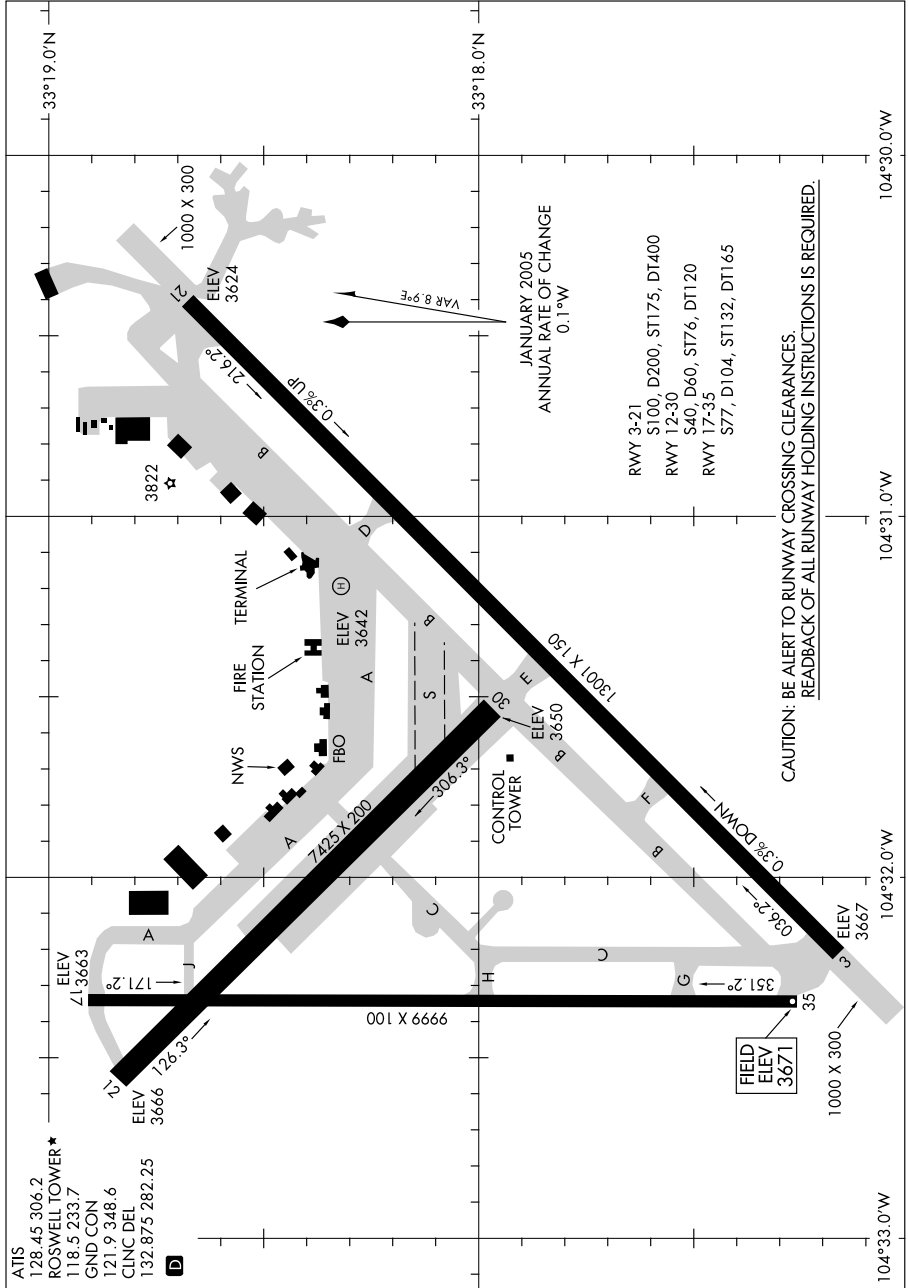
07354

09295

AIRPORT DIAGRAM

AL-354 (FAA)

ROSWELL INTL AIR CENTER (ROW)
ROSWELL, NEW MEXICO



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

AIRPORT DIAGRAM

09295

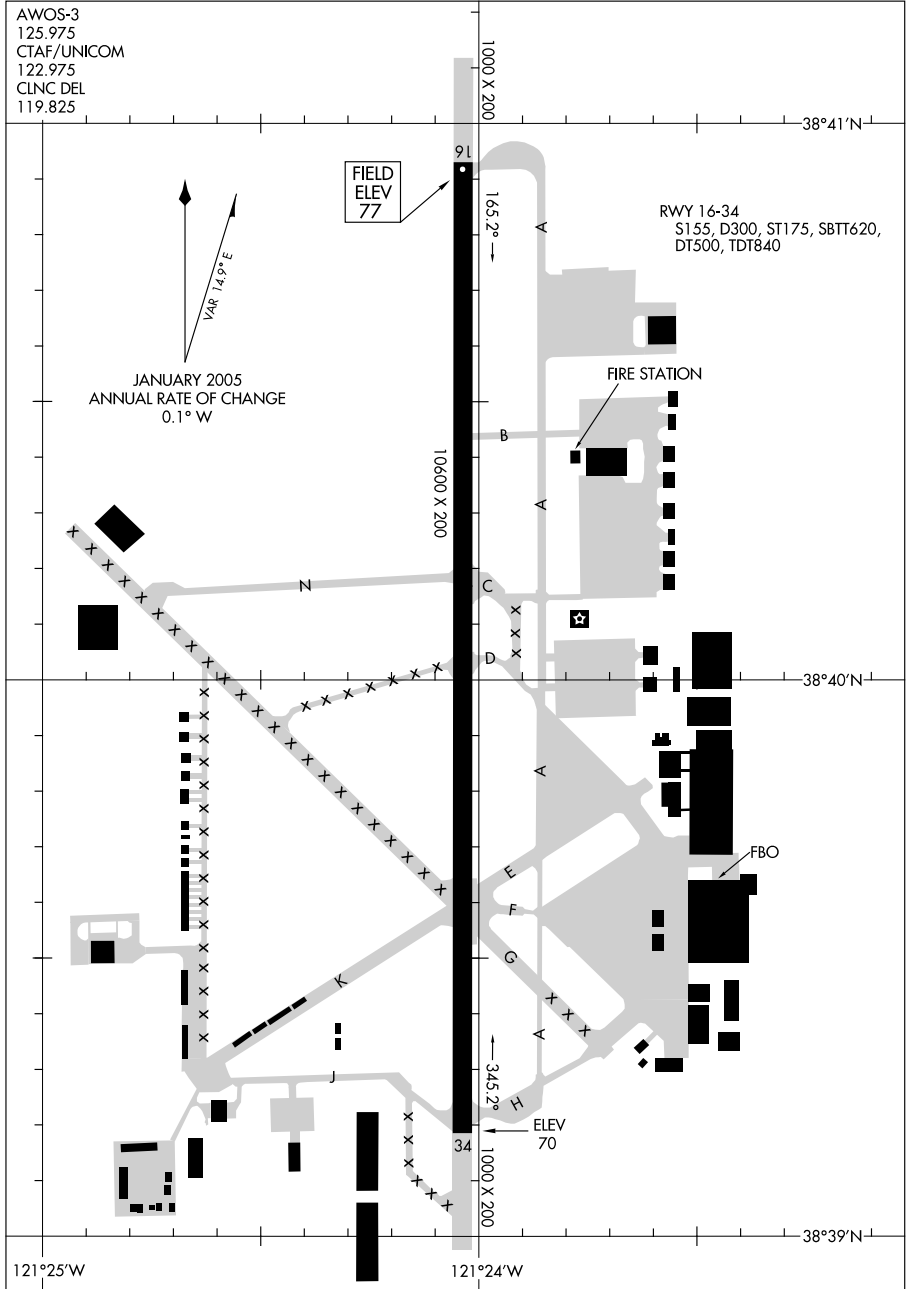
ROSWELL, NEW MEXICO
ROSWELL INTL AIR CENTER (ROW)

09239

AIRPORT DIAGRAM

SACRAMENTO/ MC CLELLAN AIRFIELD (MCC)
SACRAMENTO, CALIFORNIA

AL-357 (FAA)



AIRPORT DIAGRAM

SACRAMENTO, CALIFORNIA
SACRAMENTO/ MC CLELLAN AIRFIELD (MCC)

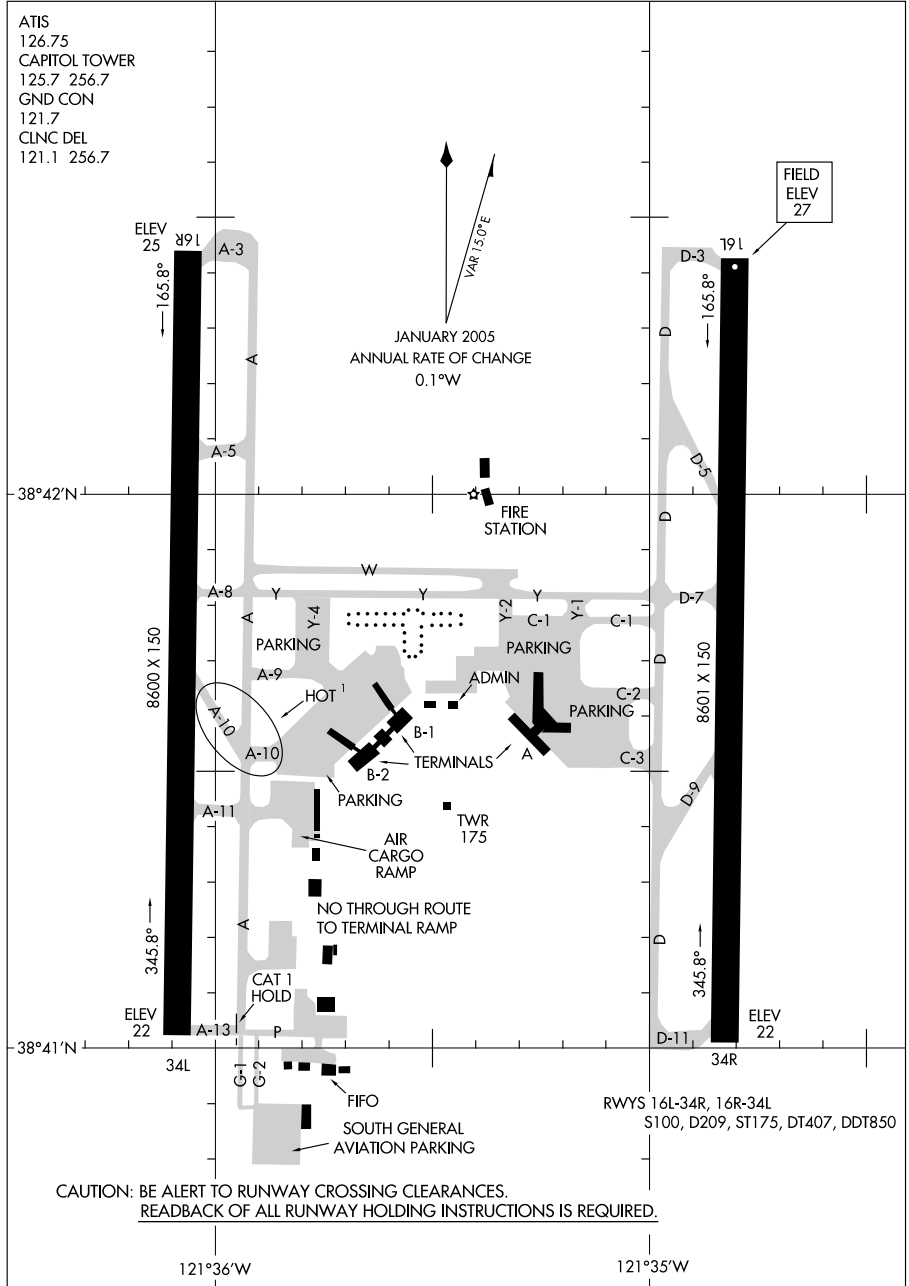
09239

10042

AIRPORT DIAGRAM

AL-5490 (FAA)

SACRAMENTO INTL (SMF)
SACRAMENTO, CALIFORNIA



AIRPORT DIAGRAM

SACRAMENTO, CALIFORNIA
SACRAMENTO INTL (SMF)

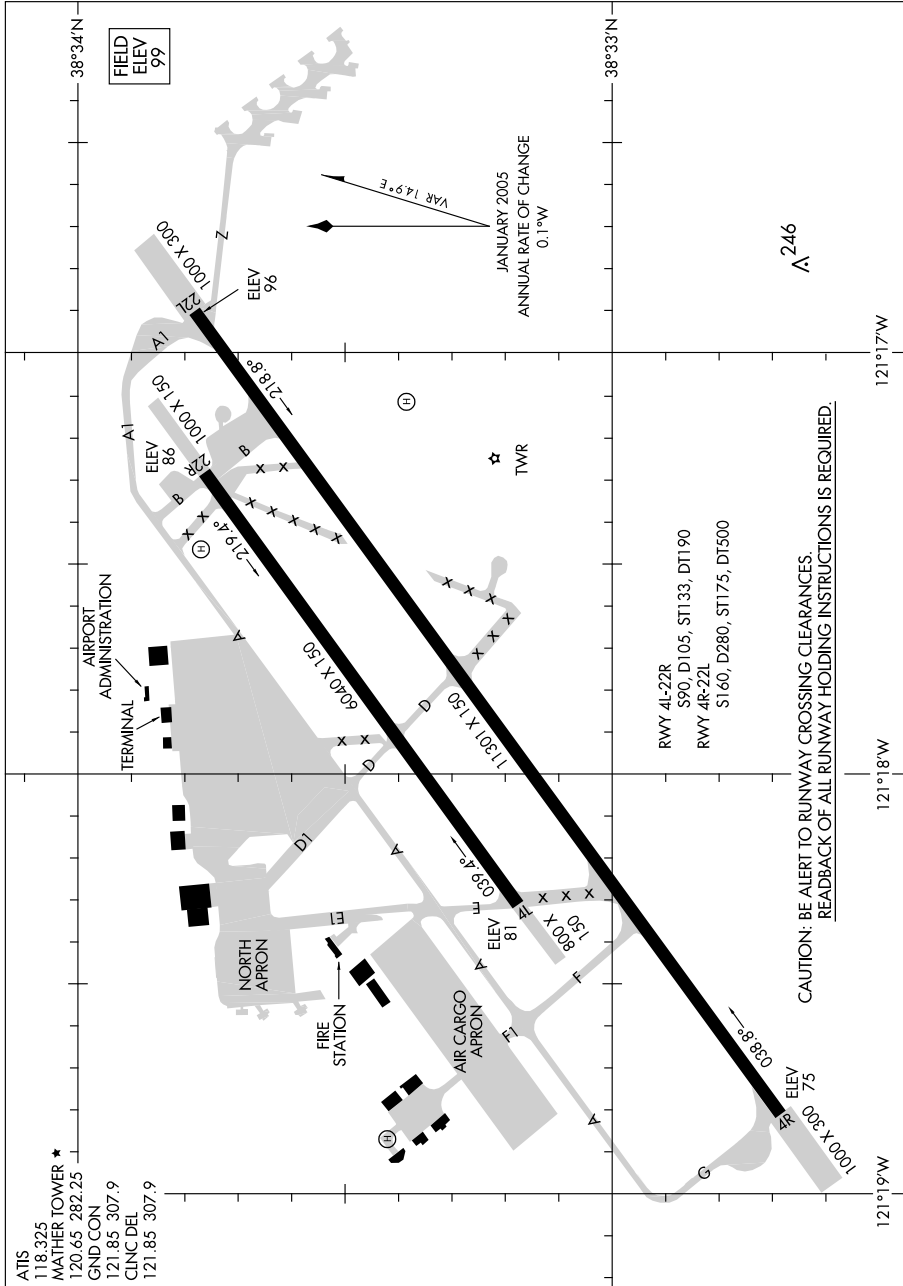
10042

10042

AIRPORT DIAGRAM

AL-356 (FAA)

SACRAMENTO MATHER (MHR)
SACRAMENTO, CALIFORNIA



AIRPORT DIAGRAM

10042

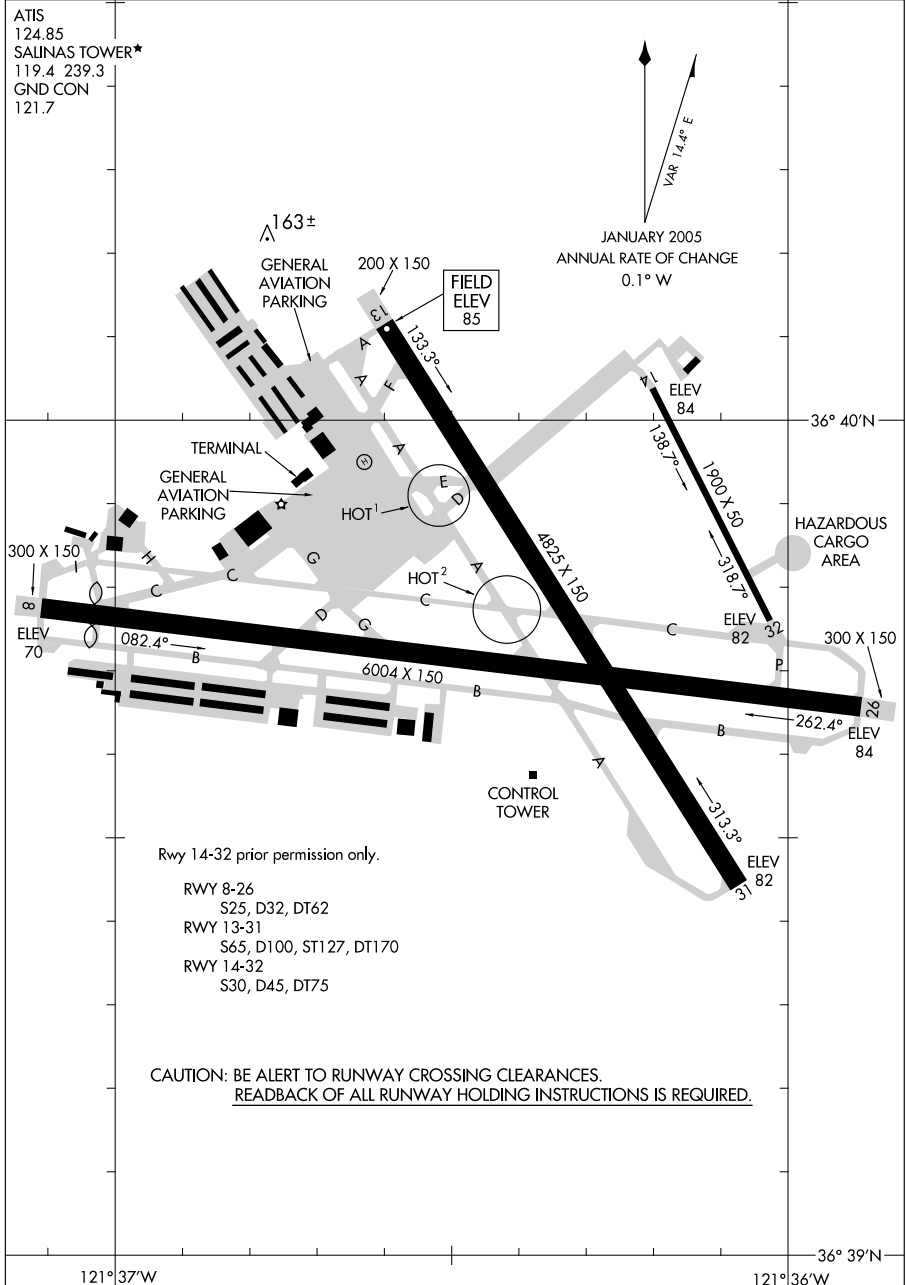
SACRAMENTO, CALIFORNIA
SACRAMENTO MATHER (MHR)

09295

AIRPORT DIAGRAM

AL-363 (FAA)

SALINAS MUNI (SNS)
SALINAS, CALIFORNIA



AIRPORT DIAGRAM

09295

SALINAS, CALIFORNIA
SALINAS MUNI (SNS)

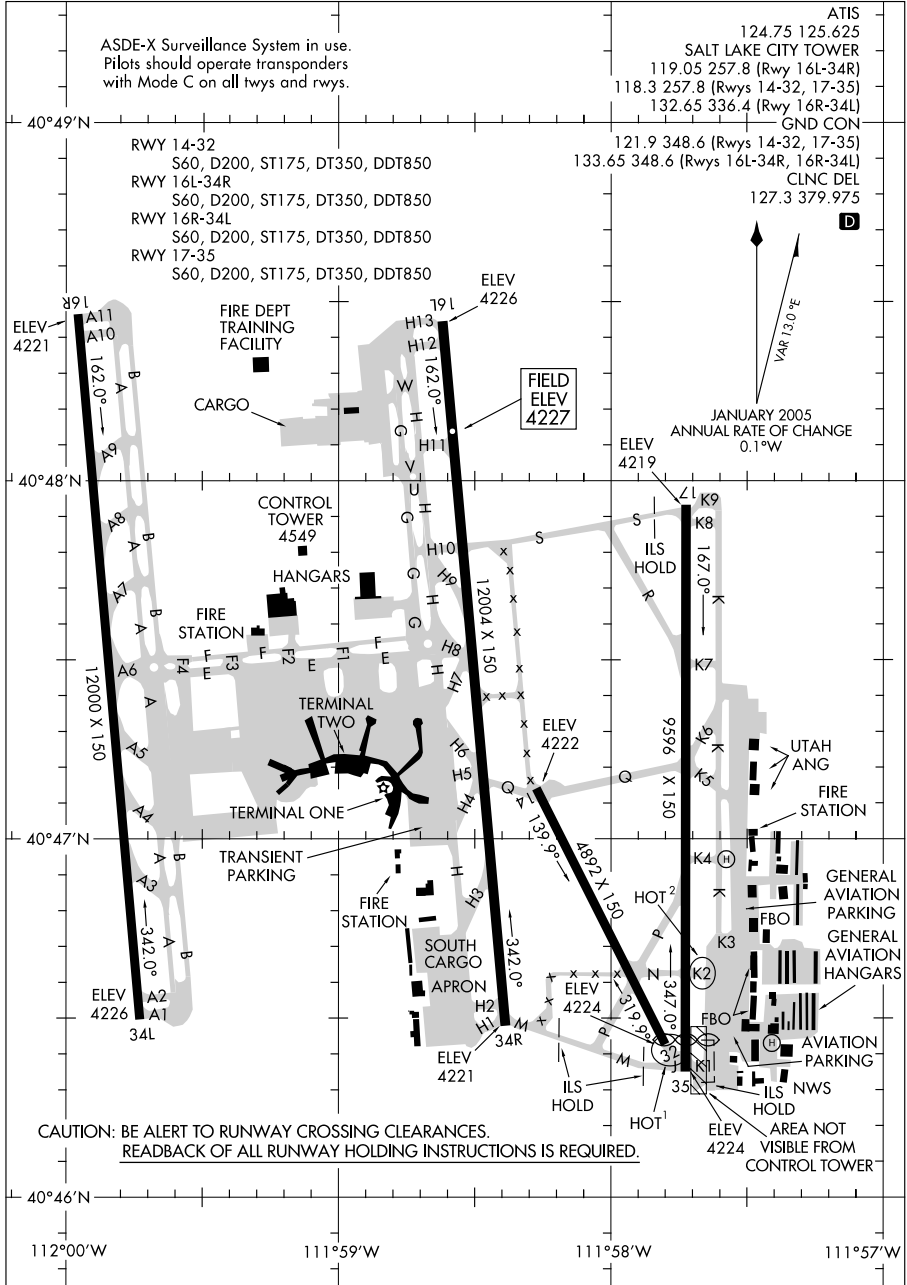
09351

AIRPORT DIAGRAM

AL-365 (FAA)

SALT LAKE CITY INTL (SLC)

SALT LAKE CITY, UTAH



AIRPORT DIAGRAM

09351

SALT LAKE CITY, UTAH

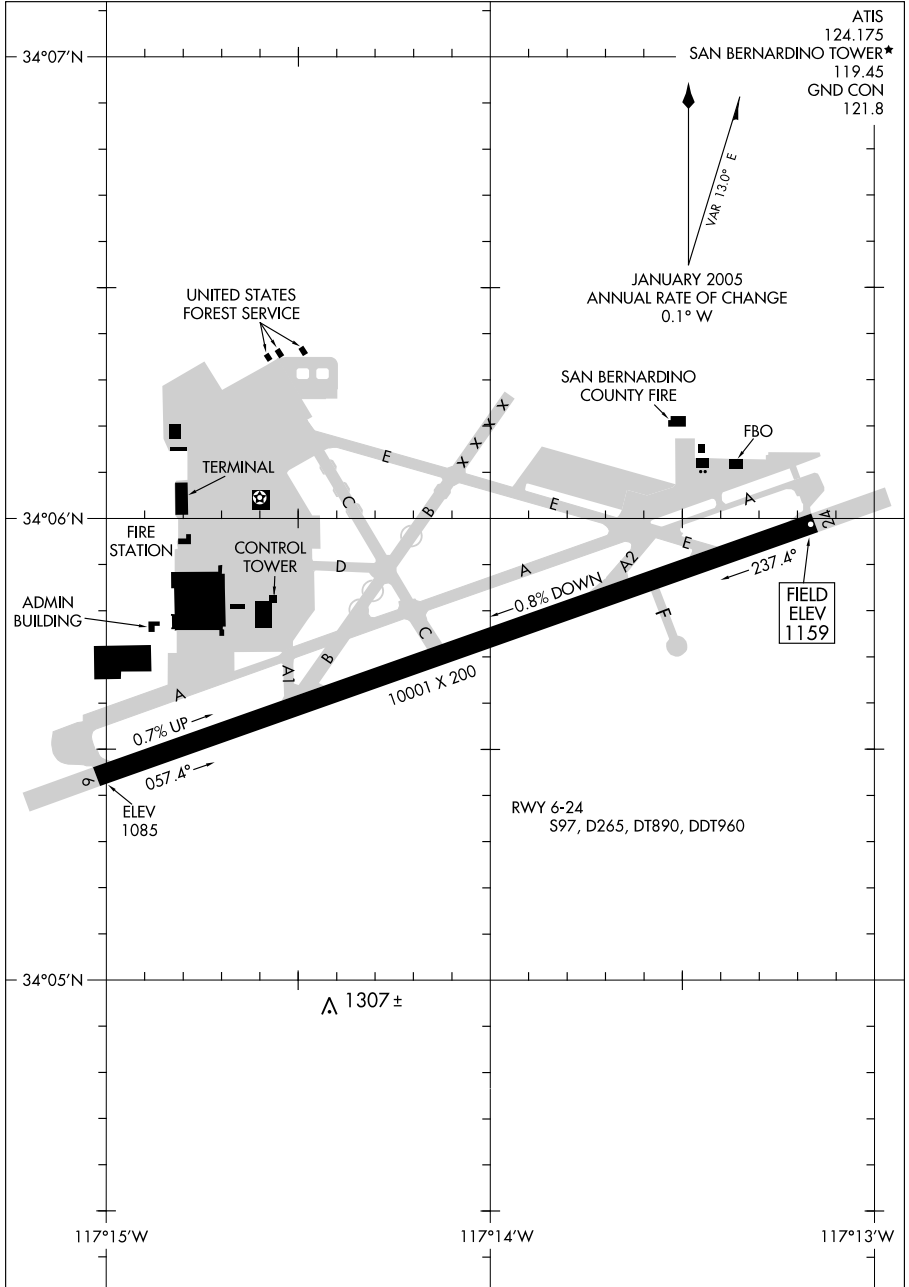
SALT LAKE CITY INTL (SLC)

09071

AIRPORT DIAGRAM

AL-547 (FAA)

SAN BERNARDINO INTL (SBD)
SAN BERNARDINO, CALIFORNIA



AIRPORT DIAGRAM

09071

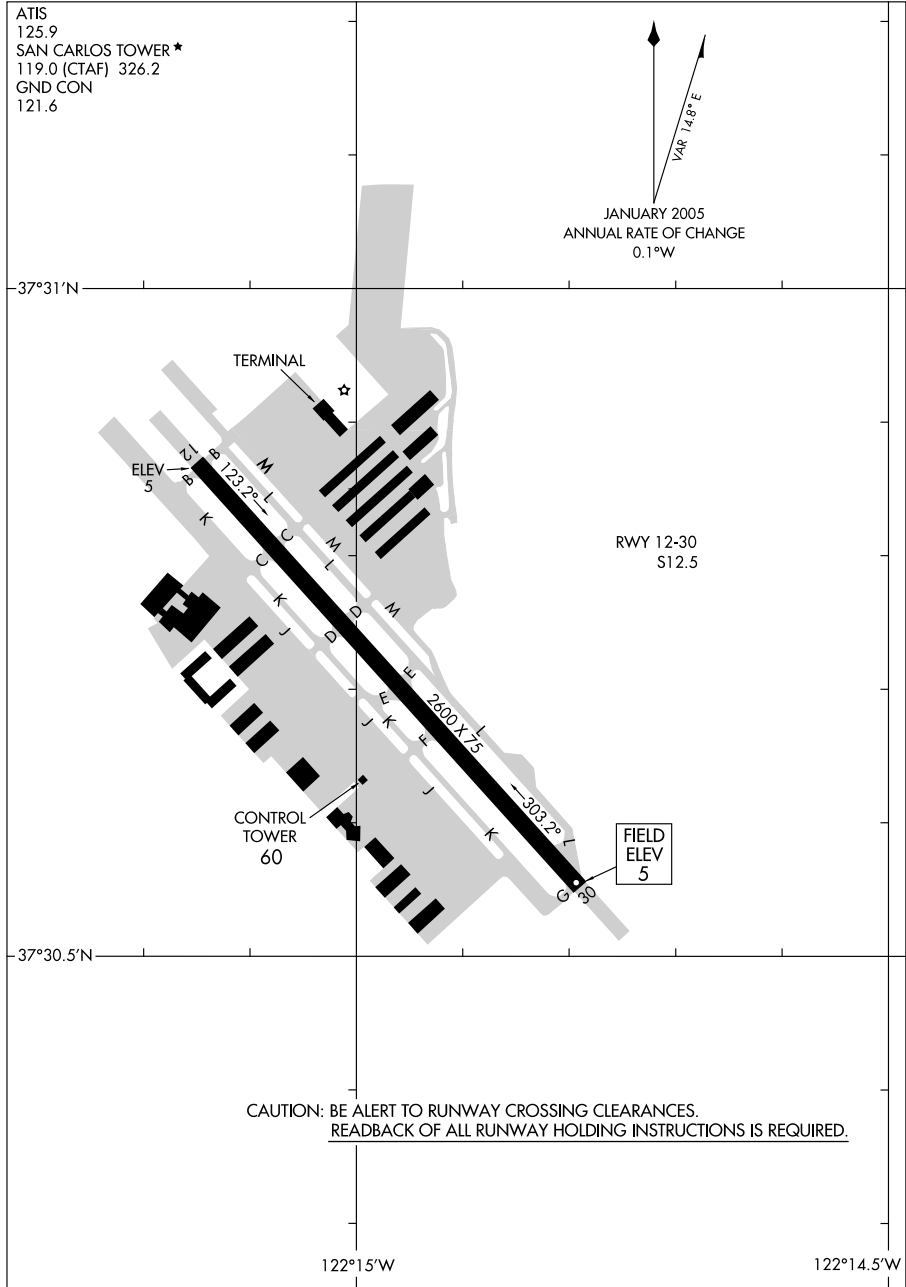
SAN BERNARDINO, CALIFORNIA
SAN BERNARDINO INTL (SBD)

08157

AIRPORT DIAGRAM

AL-9219 (FAA)

SAN CARLOS (SQL)
SAN CARLOS, CALIFORNIA



AIRPORT DIAGRAM

08157

SAN CARLOS, CALIFORNIA
SAN CARLOS (SQL)

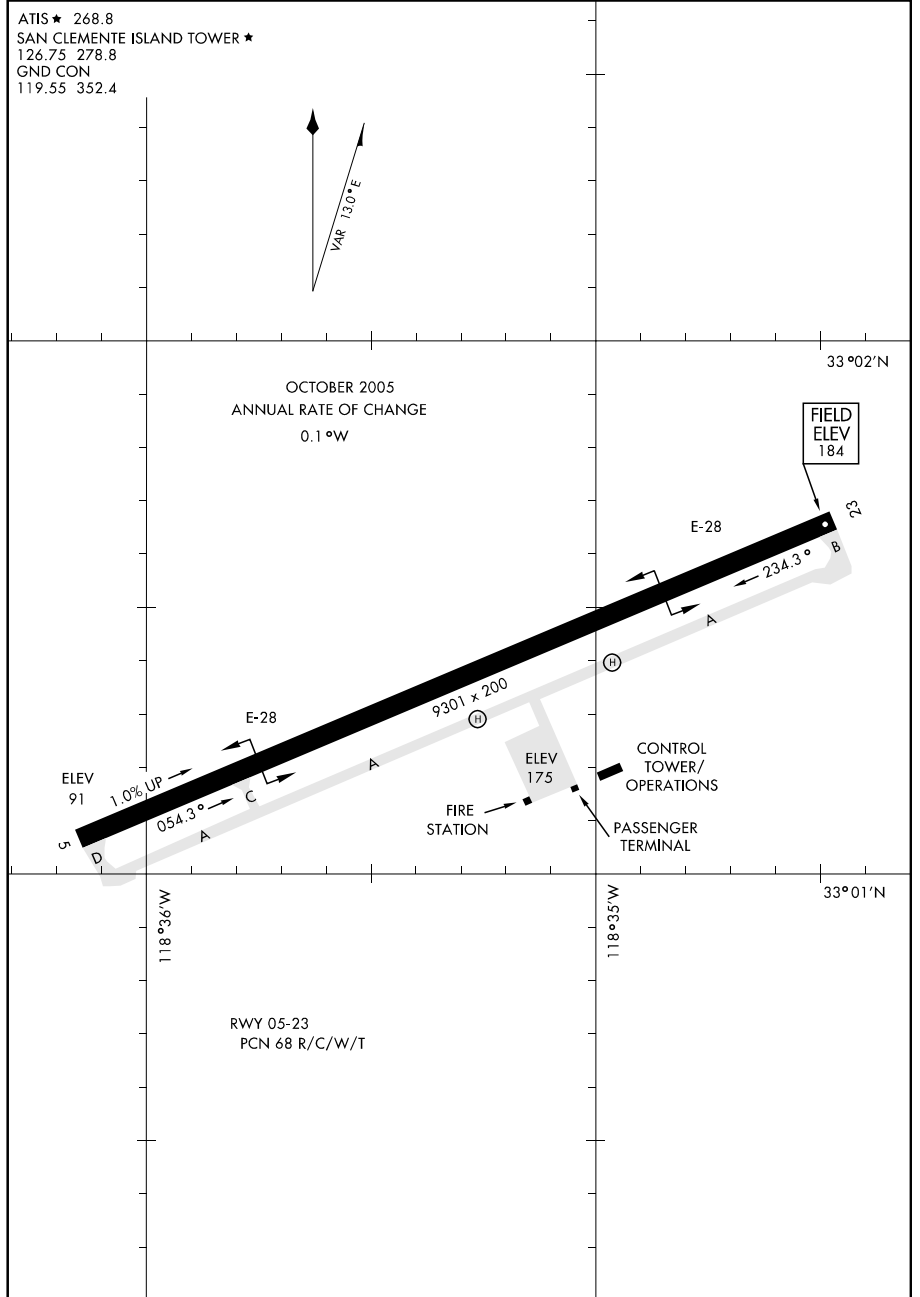
05300

SAN CLEMENTE ISLAND NALF (FREDERICK SHERMAN FLD) (NUC)

AIRPORT DIAGRAM

AFD-5126 [USN]

SAN CLEMENTE ISLAND, CALIFORNIA



AIRPORT DIAGRAM

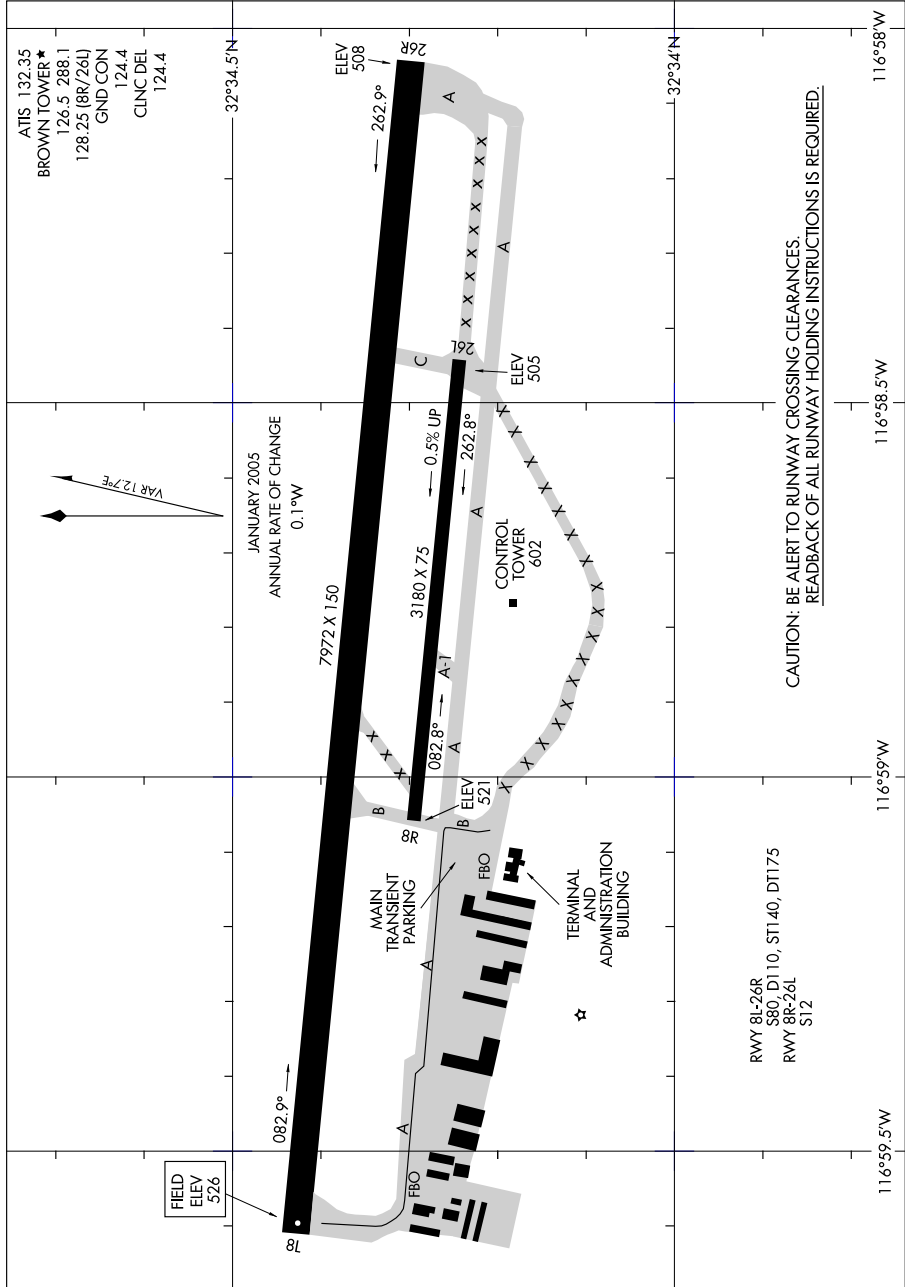
SAN CLEMENTE ISLAND, CALIFORNIA

SAN CLEMENTE ISLAND NALF (FREDERICK SHERMAN FLD) (NUC)

08325
AIRPORT DIAGRAM

SAN DIEGO/ BROWN FIELD MUNI (SDM)
SAN DIEGO, CALIFORNIA

AL-5814 (FAA)



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

RWY 8L-26R
S80, D110, ST1 40, DT175
RWY 8R-26L
S12

AIRPORT DIAGRAM
08325

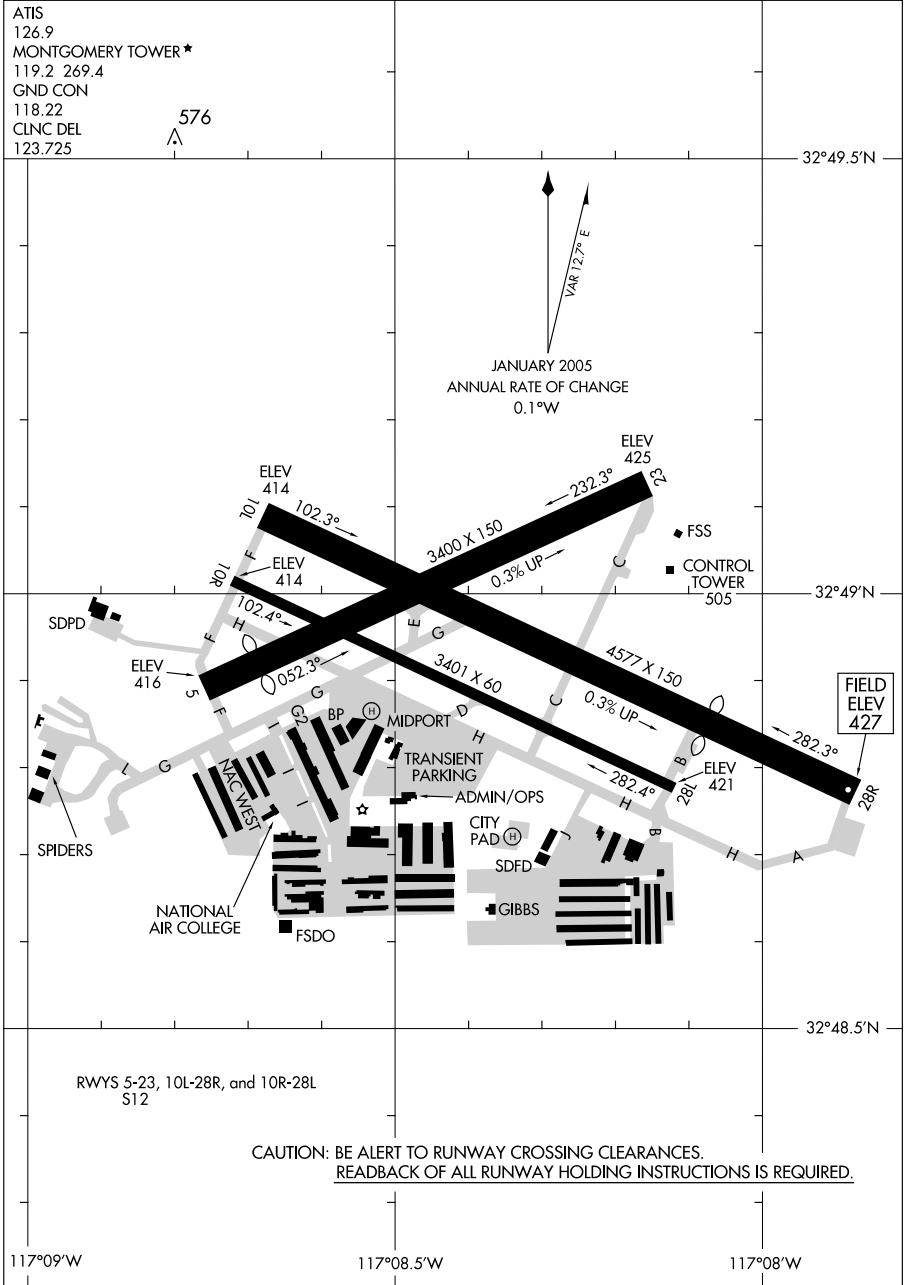
SAN DIEGO, CALIFORNIA
SAN DIEGO/ BROWN FIELD MUNI (SDM)

09071

AIRPORT DIAGRAM

AL-5401 (FAA)

SAN DIEGO/MONTGOMERY FIELD (MYF)
SAN DIEGO, CALIFORNIA



AIRPORT DIAGRAM

09071

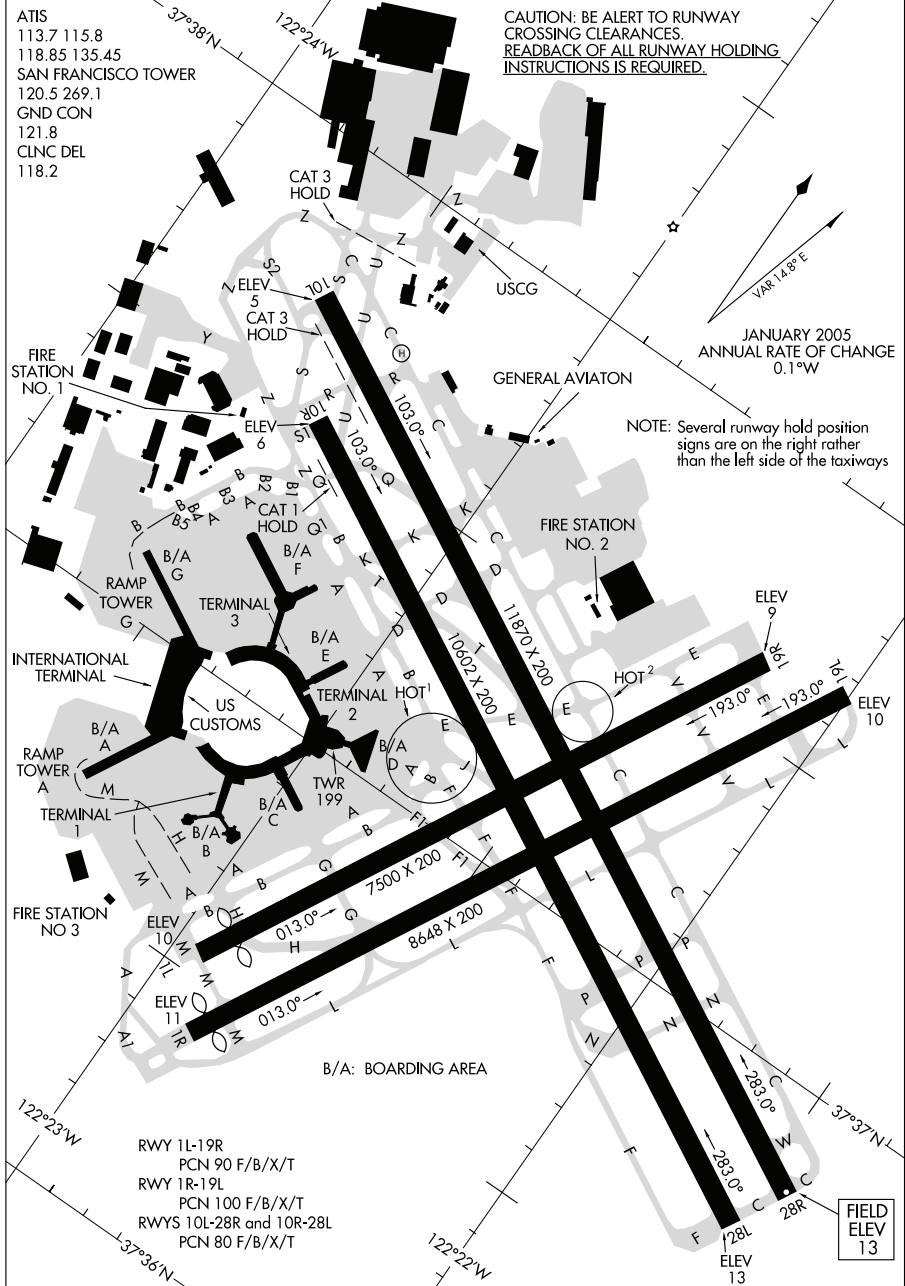
SAN DIEGO, CALIFORNIA
SAN DIEGO/MONTGOMERY FIELD (MYF)

10098

AIRPORT DIAGRAM

AL-375 (FAA)

SAN FRANCISCO INTL (SFO)
SAN FRANCISCO, CALIFORNIA



AIRPORT DIAGRAM

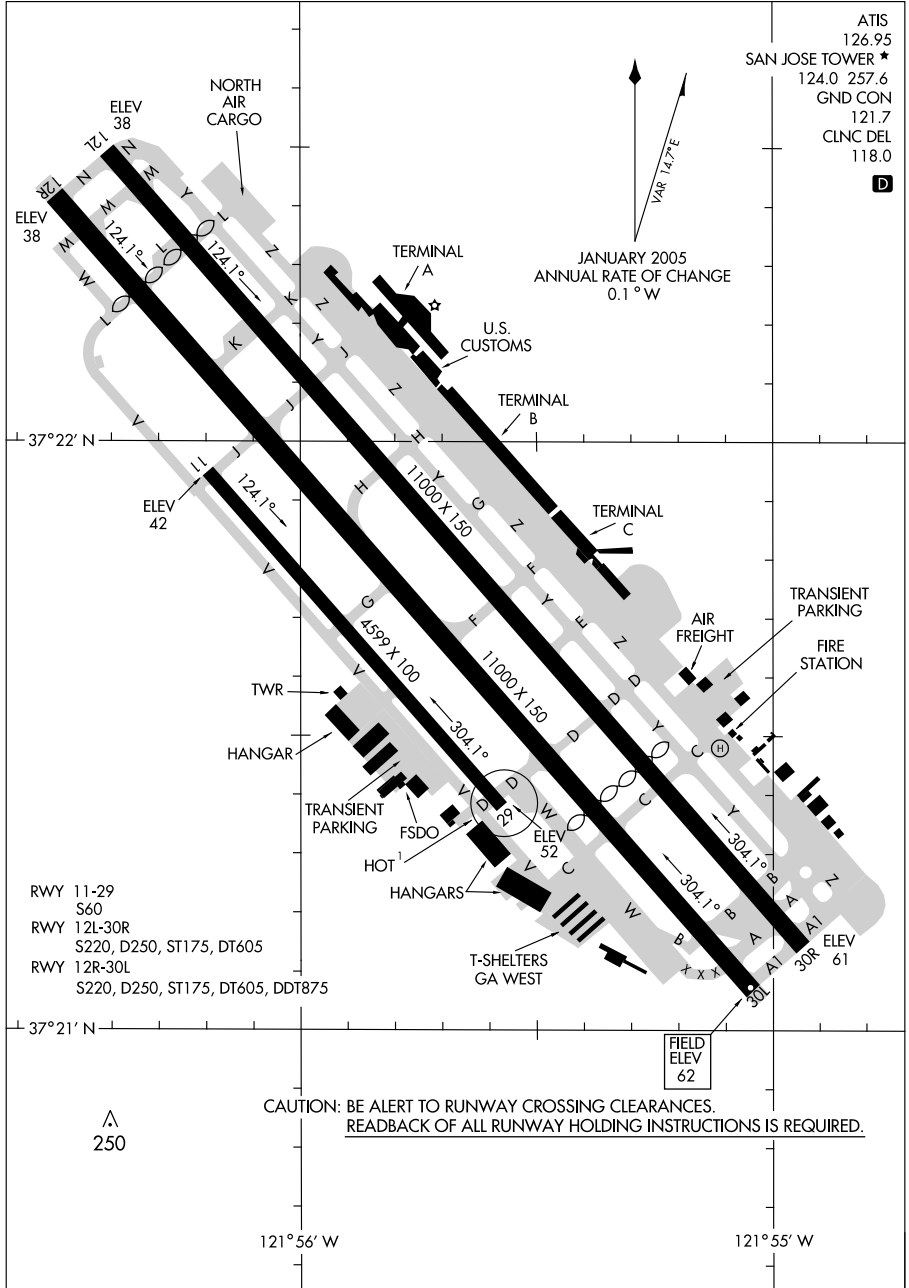
10098

SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO INTL (SFO)

10098

AIRPORT DIAGRAM

SAN JOSE/NORMAN Y. MINETA SAN JOSE INTL (SJC)
AL-693 (FAA)
SAN JOSE, CALIFORNIA



ATIS 126.95
 SAN JOSE TOWER ★ 124.0 257.6
 GND CON 121.7
 CLNC DEL 118.0
 D

RWY 11-29 S60
 RWY 12L-30R S220, D250, ST175, DT605
 RWY 12R-30L S220, D250, ST175, DT605, DDT875

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

AIRPORT DIAGRAM

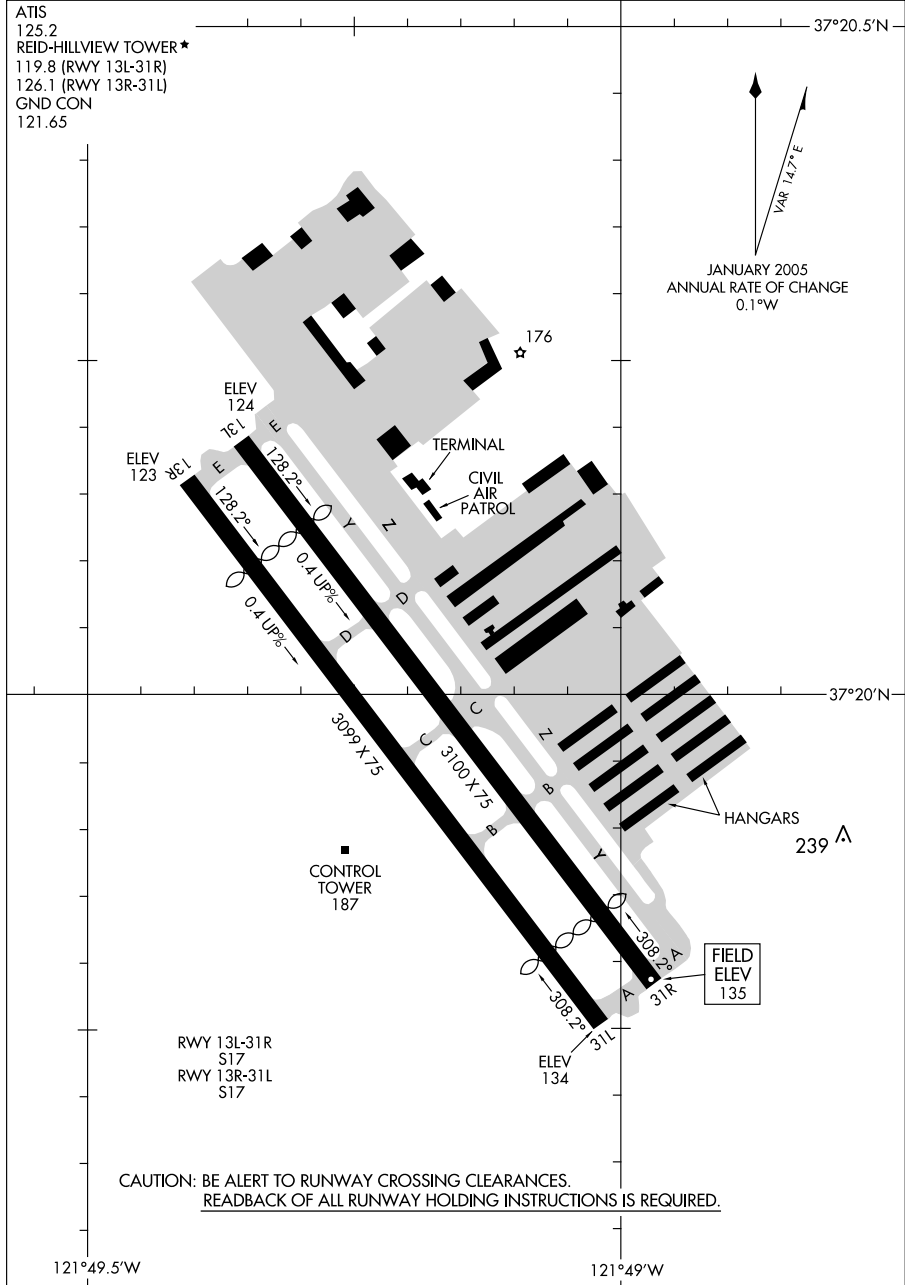
10098

SAN JOSE, CALIFORNIA
SAN JOSE/NORMAN Y. MINETA SAN JOSE INTL (SJC)

09071

AIRPORT DIAGRAM

SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (R.H.V)
AL-5591 (FAA)
SAN JOSE, CALIFORNIA



AIRPORT DIAGRAM

09071

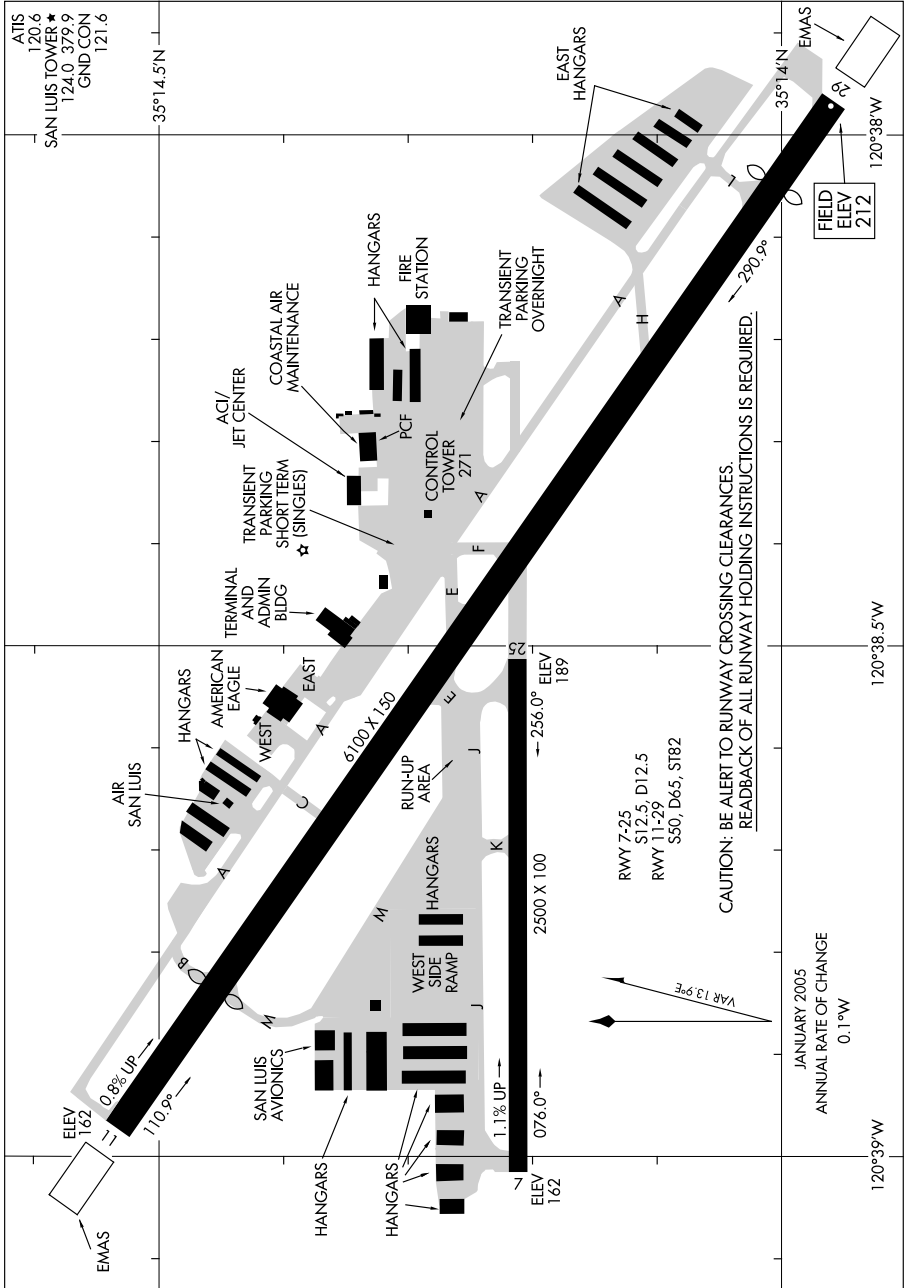
SAN JOSE, CALIFORNIA
SAN JOSE/REID-HILLVIEW OF SANTA CLARA COUNTY (R.H.V)

10042

AIRPORT DIAGRAM

AL-989 (FAA)

SAN LUIS COUNTY RGNL (SBP)
SAN LUIS OBISPO, CALIFORNIA



AIRPORT DIAGRAM

SAN LUIS OBISPO, CALIFORNIA
SAN LUIS COUNTY RGNL (SBP)

10042

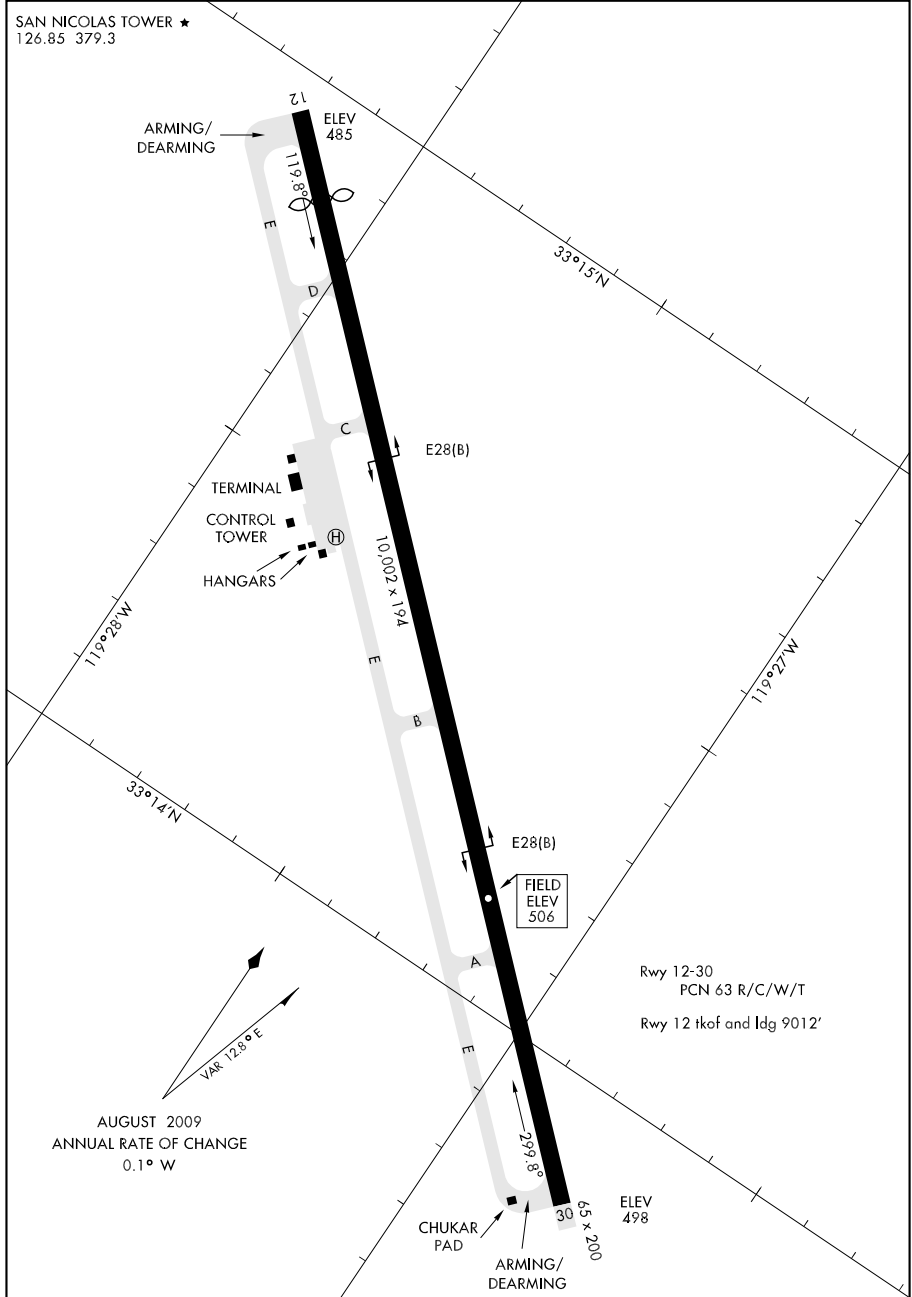
09239

AIRPORT DIAGRAM

AFD-5162 [USN]

SAN NICOLAS ISLAND NOLF (KNSI)

SAN NICOLAS ISLAND, CALIFORNIA



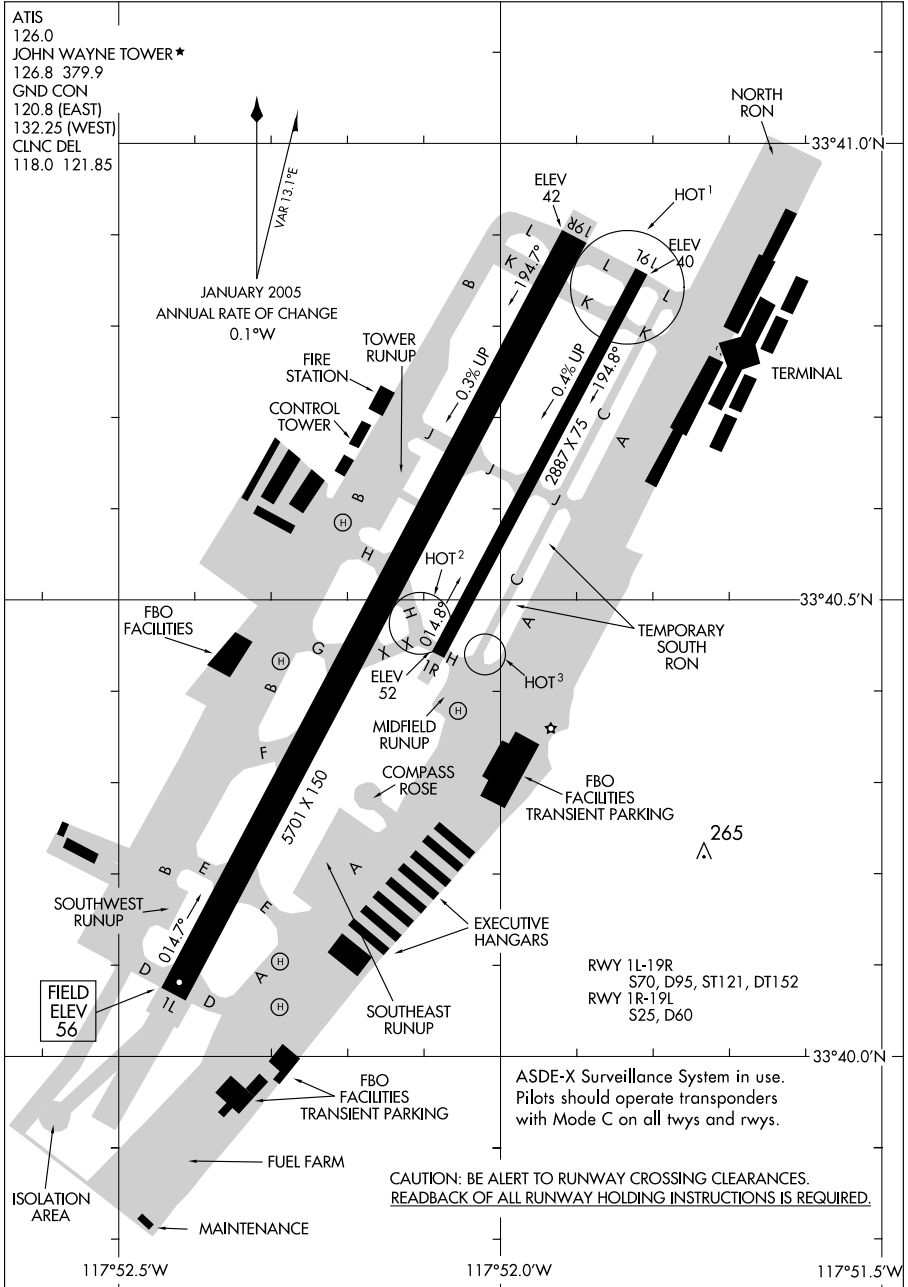
AIRPORT DIAGRAM

SAN NICOLAS ISLAND, CALIFORNIA
SAN NICOLAS ISLAND NOLF (KNSI)

09351

AIRPORT DIAGRAM

SANTA ANA/JOHN WAYNE ARPT-ORANGE COUNTY (SNA)
AL-377 (FAA)
SANTA ANA, CALIFORNIA



AIRPORT DIAGRAM

SANTA ANA, CALIFORNIA
SANTA ANA/JOHN WAYNE ARPT-ORANGE COUNTY (SNA)

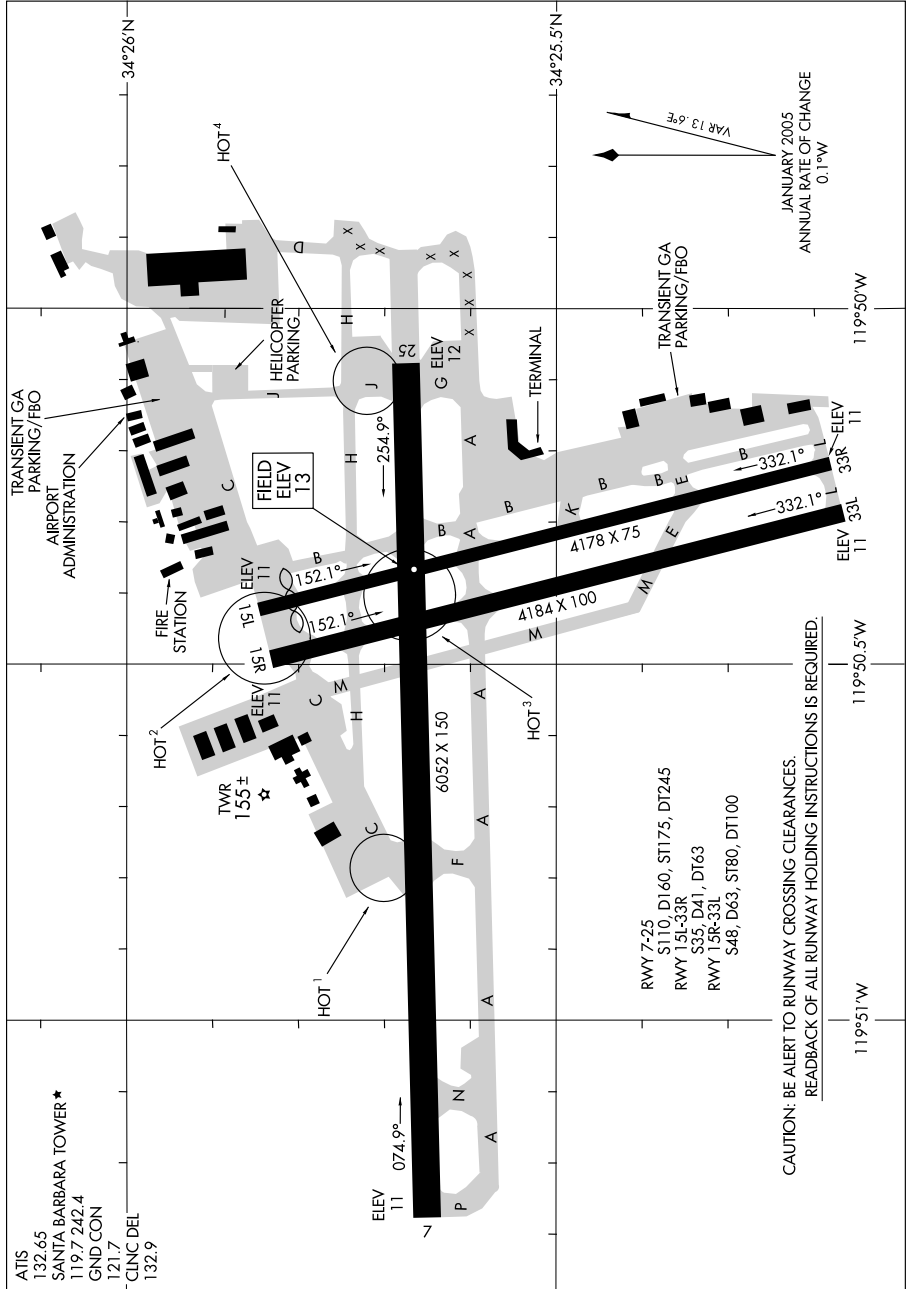
09351

09295

AIRPORT DIAGRAM

AL-378 (FAA)

SANTA BARBARA MUNI (SBA)
SANTA BARBARA, CALIFORNIA



AIRPORT DIAGRAM

SANTA BARBARA, CALIFORNIA
SANTA BARBARA MUNI (SBA)

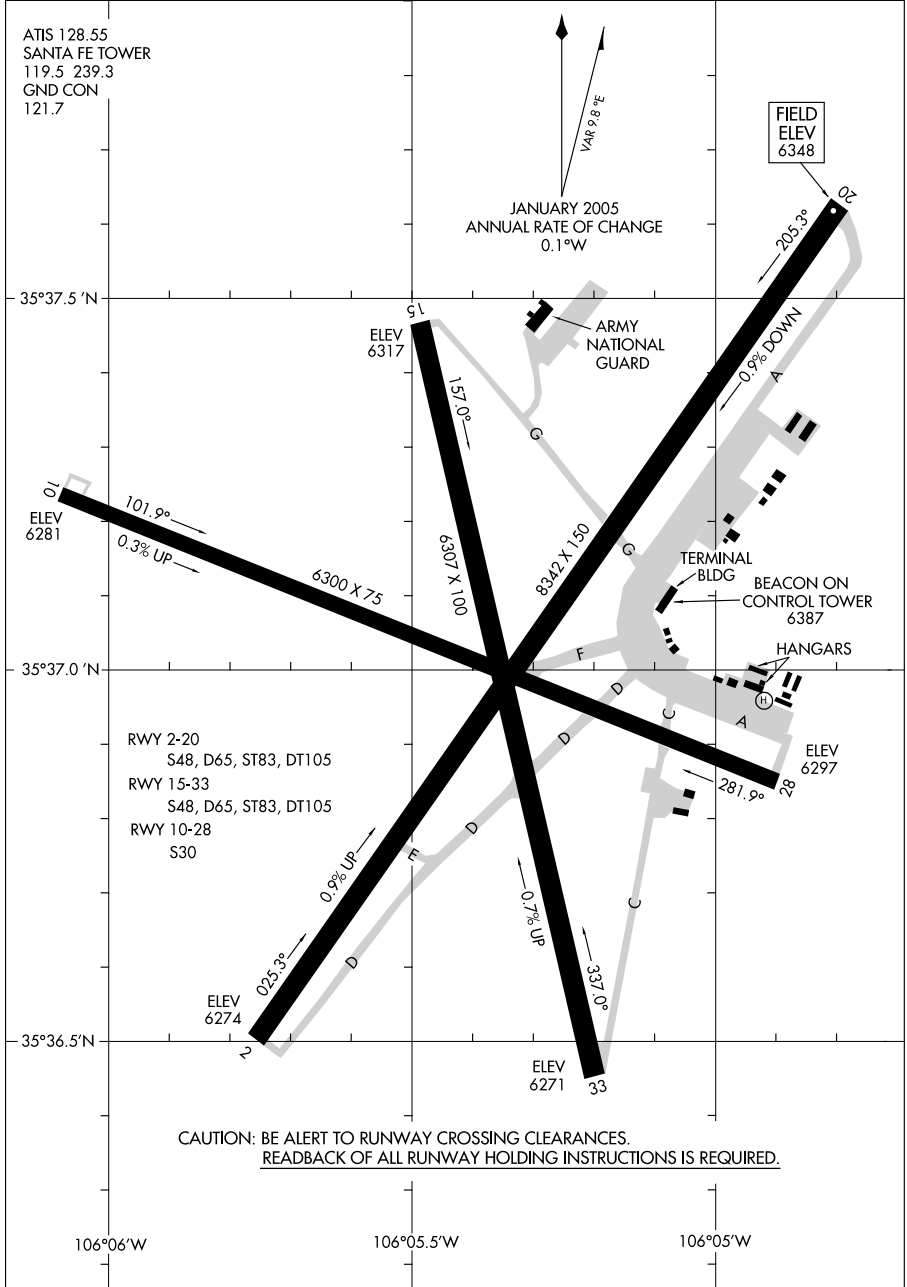
09295

08101

AIRPORT DIAGRAM

AL-548 (FAA)

SANTA FE MUNI (SAF)
SANTA FE, NEW MEXICO



AIRPORT DIAGRAM

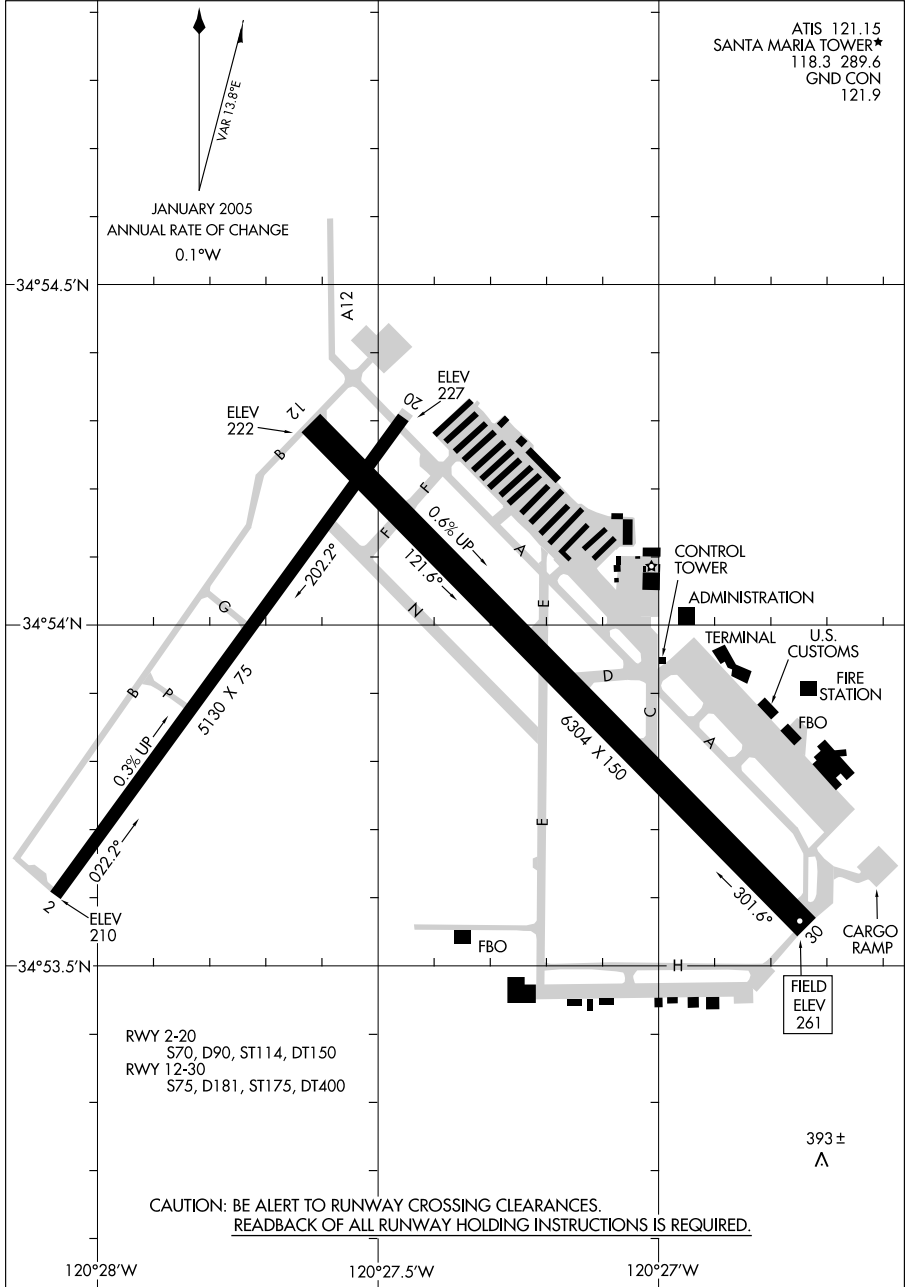
SANTA FE, NEW MEXICO
SANTA FE MUNI (SAF)

08101

07074

AIRPORT DIAGRAM

SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)
AL-379 (FAA) SANTA MARIA, CALIFORNIA



ATIS 121.15
 SANTA MARIA TOWER*
 118.3 289.6
 GND CON
 121.9

JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.1°W

RWY 2-20
 S70, D90, ST114, DT150
 RWY 12-30
 S75, D181, ST175, DT400

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

393 ±
Λ

AIRPORT DIAGRAM

SANTA MARIA, CALIFORNIA
SANTA MARIA PUBLIC/CAPTAIN G. ALLAN HANCOCK FIELD (SMX)

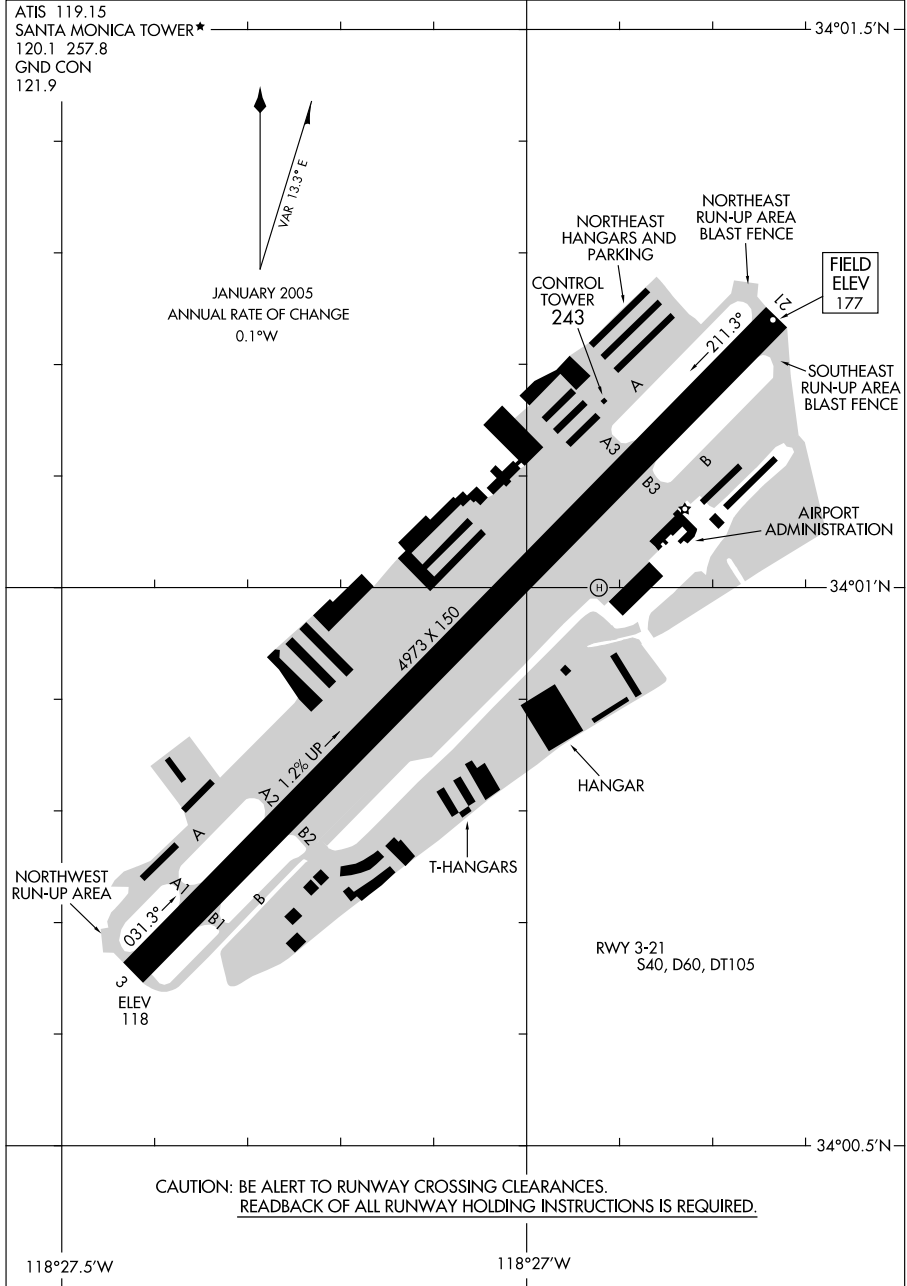
07074

06327

AIRPORT DIAGRAM

AL-5023 (FAA)

SANTA MONICA MUNI (SMO)
SANTA MONICA, CALIFORNIA



AIRPORT DIAGRAM

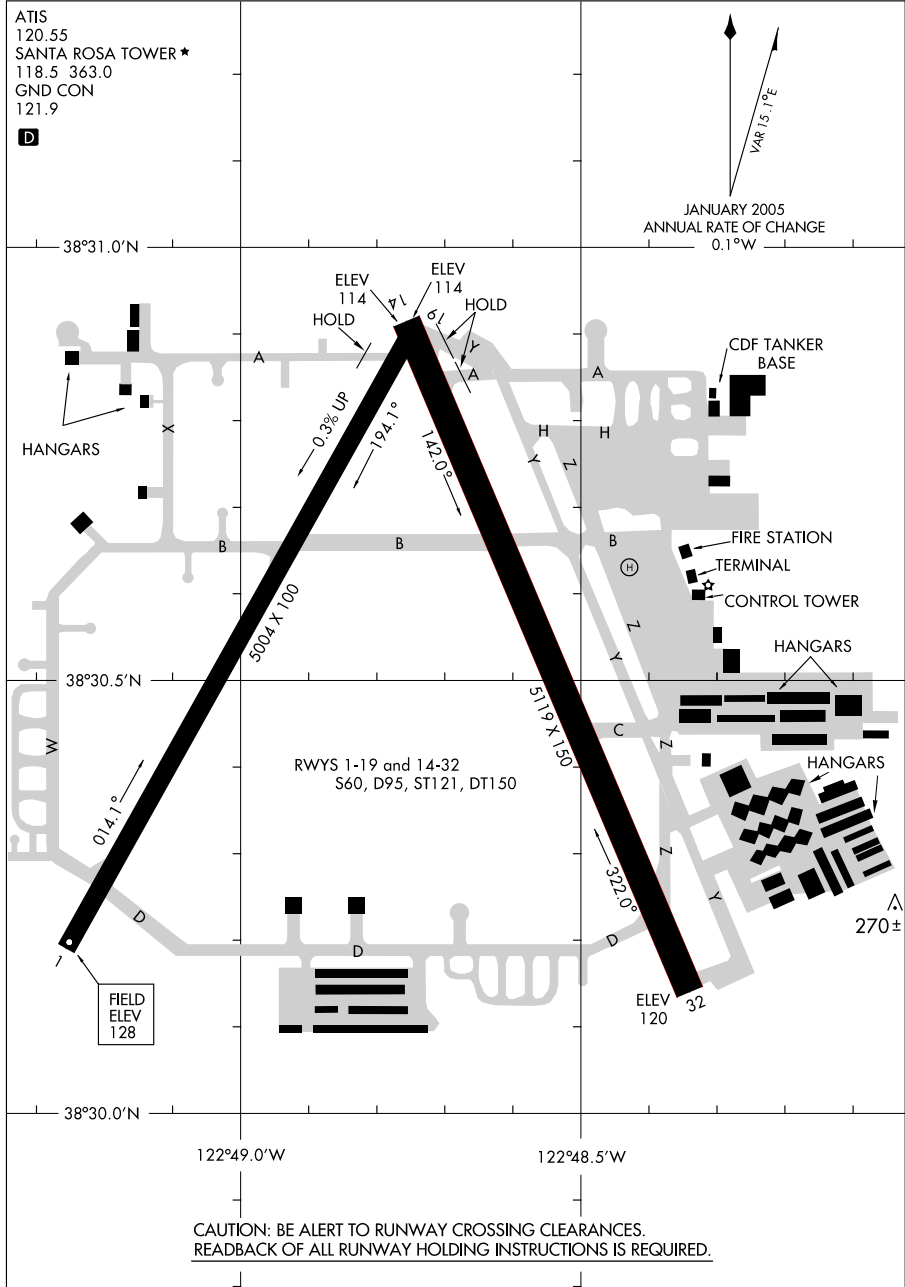
06327

SANTA MONICA, CALIFORNIA
SANTA MONICA MUNI (SMO)

09015

AIRPORT DIAGRAM

SANTA ROSA / CHARLES M. SCHULZ-SONOMA COUNTY (STS)
AL-696 (FAA) SANTA ROSA, CALIFORNIA



AIRPORT DIAGRAM

09015

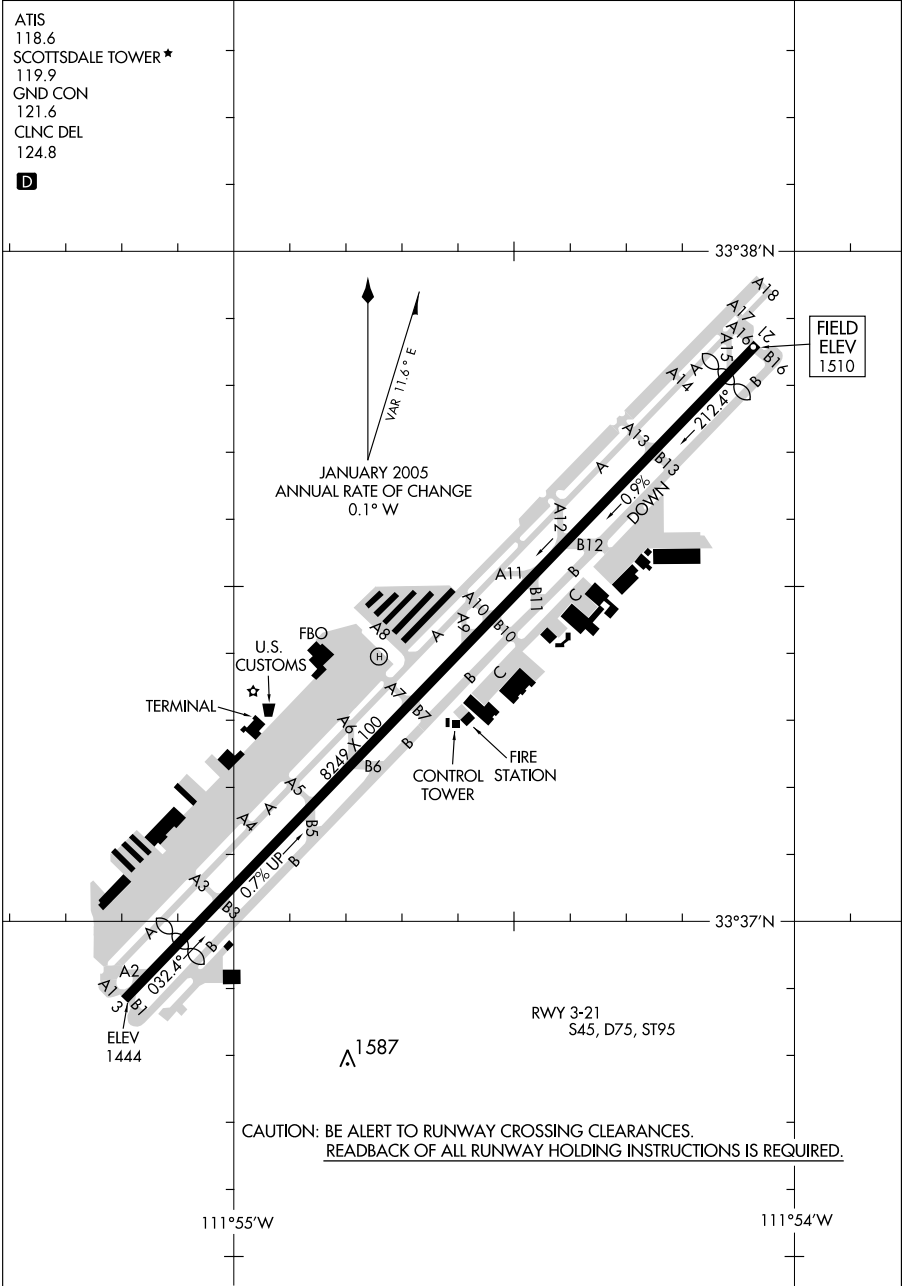
SANTA ROSA, CALIFORNIA
SANTA ROSA / CHARLES M. SCHULZ-SONOMA COUNTY (STS)

10042

AIRPORT DIAGRAM

AL-5651 (FAA)

SCOTTSDALE (SDL)
SCOTTSDALE, ARIZONA



AIRPORT DIAGRAM

10042

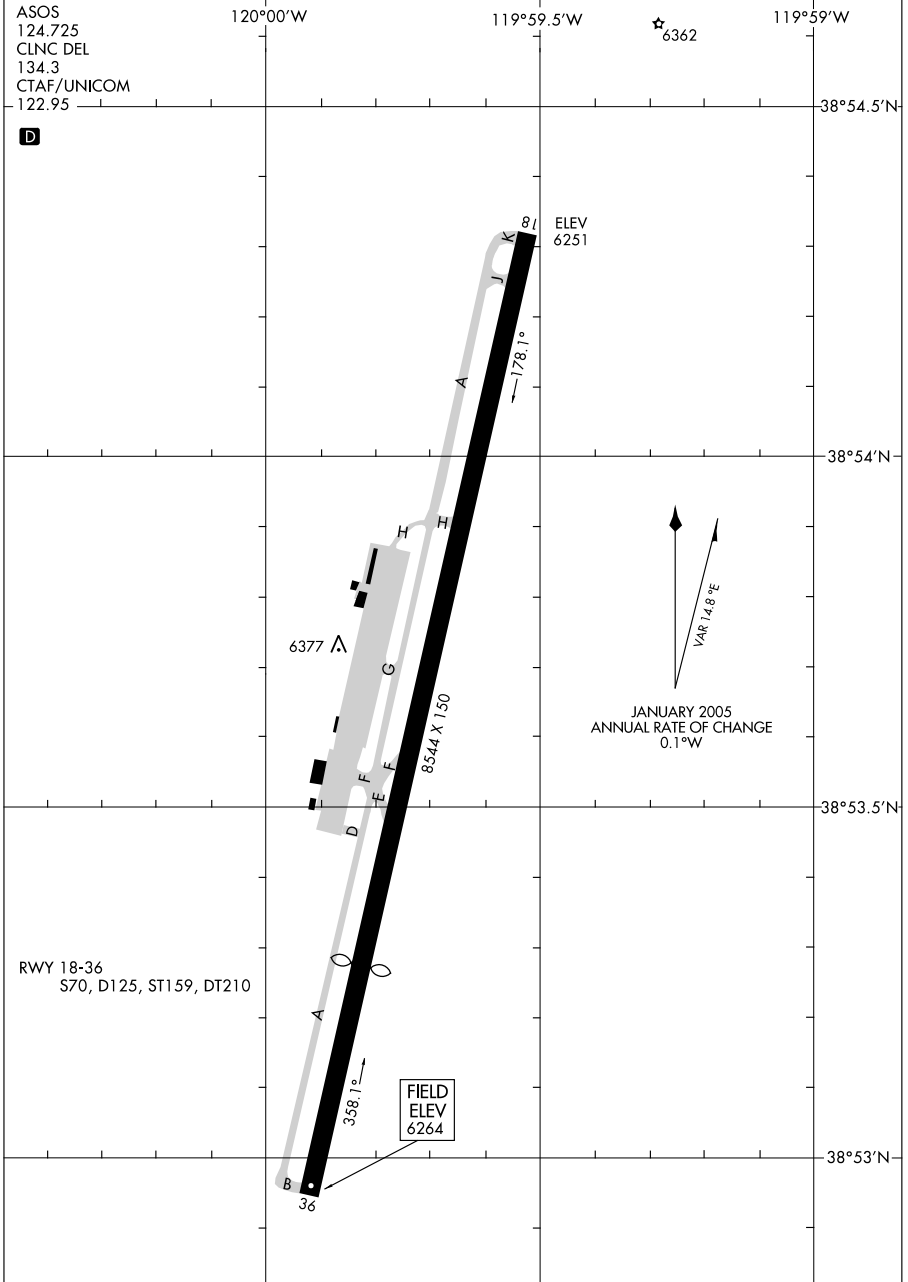
SCOTTSDALE, ARIZONA
SCOTTSDALE (SDL)

09239

AIRPORT DIAGRAM

AL-5416 (FAA)

SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)
SOUTH LAKE TAHOE, CALIFORNIA



AIRPORT DIAGRAM

09239

SOUTH LAKE TAHOE, CALIFORNIA
SOUTH LAKE TAHOE/ LAKE TAHOE (TVL)

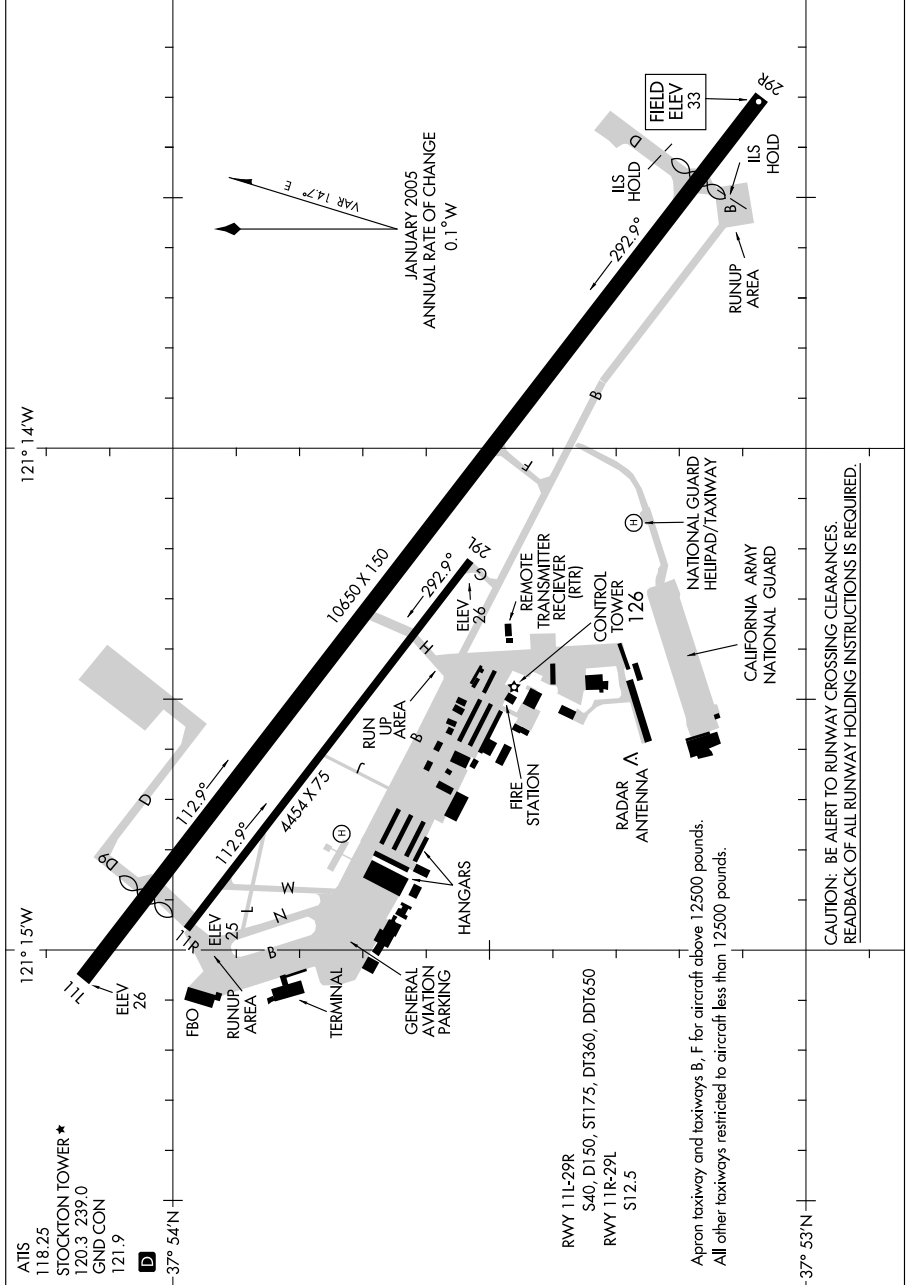
09127

AIRPORT DIAGRAM

AL-407 (FAA)

STOCKTON METROPOLITAN (SCK)

STOCKTON, CALIFORNIA



121° 14' W

121° 15' W

37° 54' N

37° 53' N

ATIS 118.25
 STOCKTON TOWER * 120.3, 239.0
 GND.CON 121.9
 D

RWY 11L-29R S40, D150, S1175, DT360, DT650
 RWY 11R-29L S12.5

Apron taxiway and taxiways B, F for aircraft above 12500 pounds.
 All other taxiways restricted to aircraft less than 12500 pounds.

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

AIRPORT DIAGRAM

09127

STOCKTON, CALIFORNIA

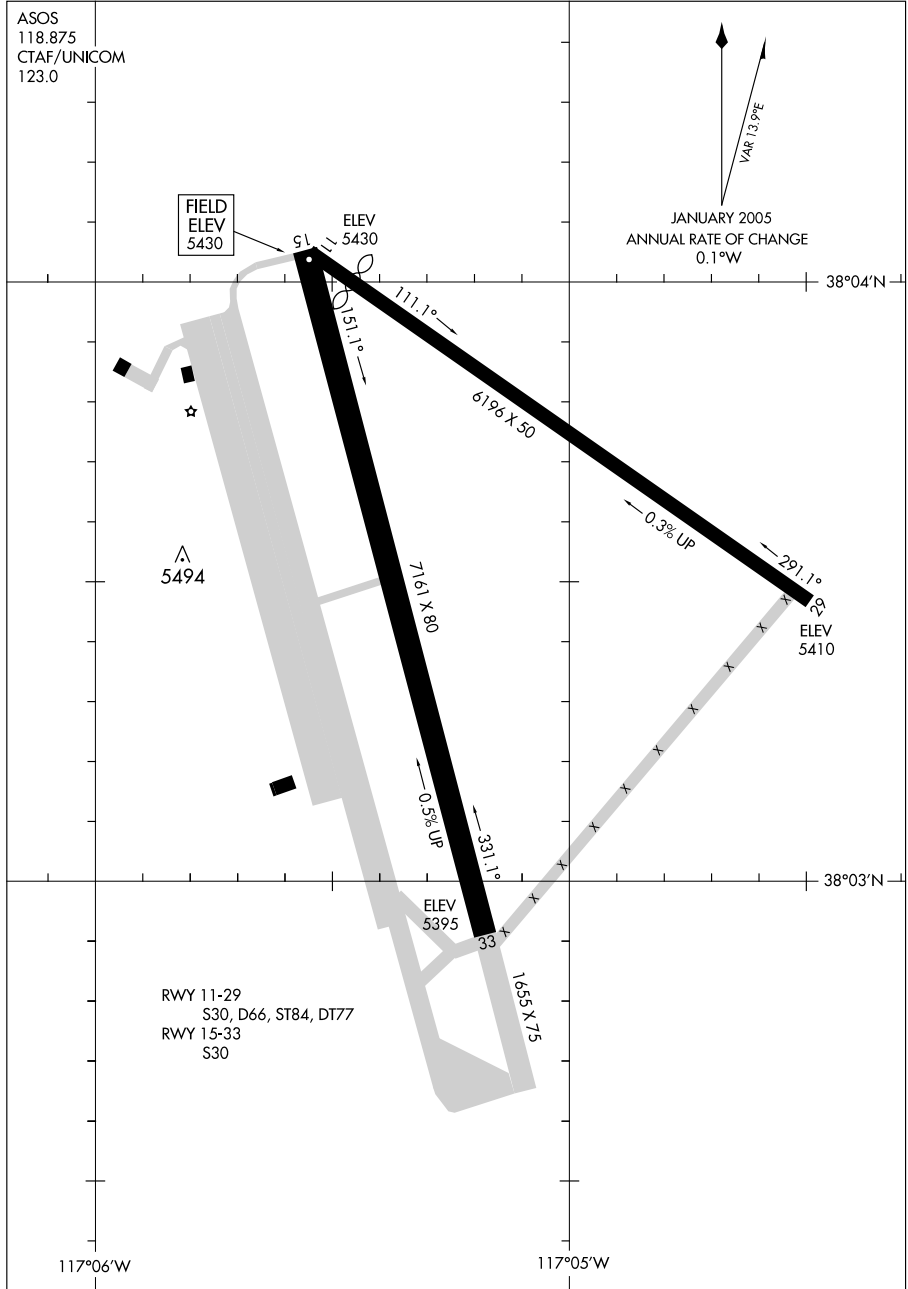
STOCKTON METROPOLITAN (SCK)

09239

AIRPORT DIAGRAM

AL-423 (FAA)

TONOPAH (TPH)
TONOPAH, NEVADA



AIRPORT DIAGRAM

09239

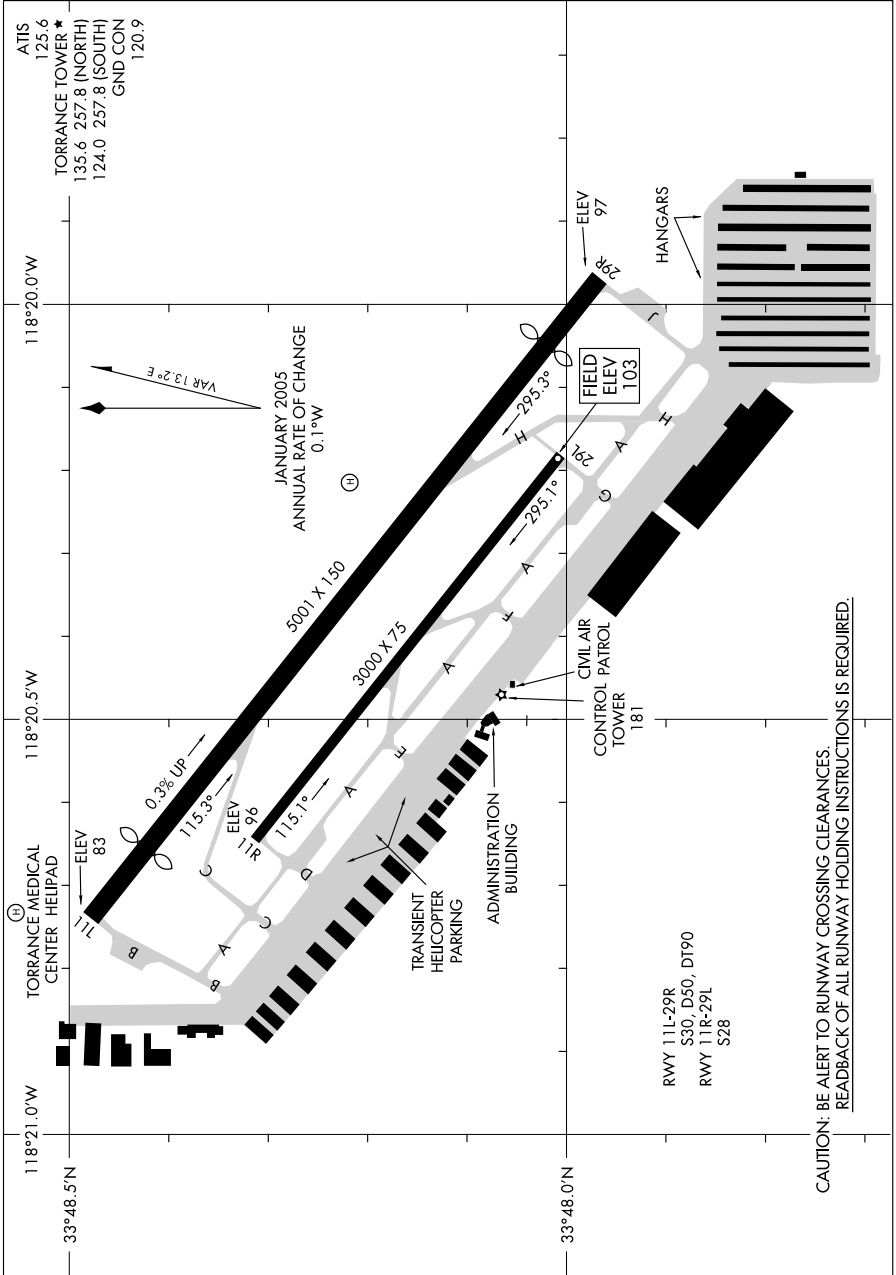
TONOPAH, NEVADA
TONOPAH (TPH)

09071

AIRPORT DIAGRAM

AL-5179 (FAA)

TORRANCE/ZAMPERINI FIELD (TOA)
TORRANCE, CALIFORNIA



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

RWY 11L-29R
S30, D50, DT90
RWY 11R-29L
S28

AIRPORT DIAGRAM

09071

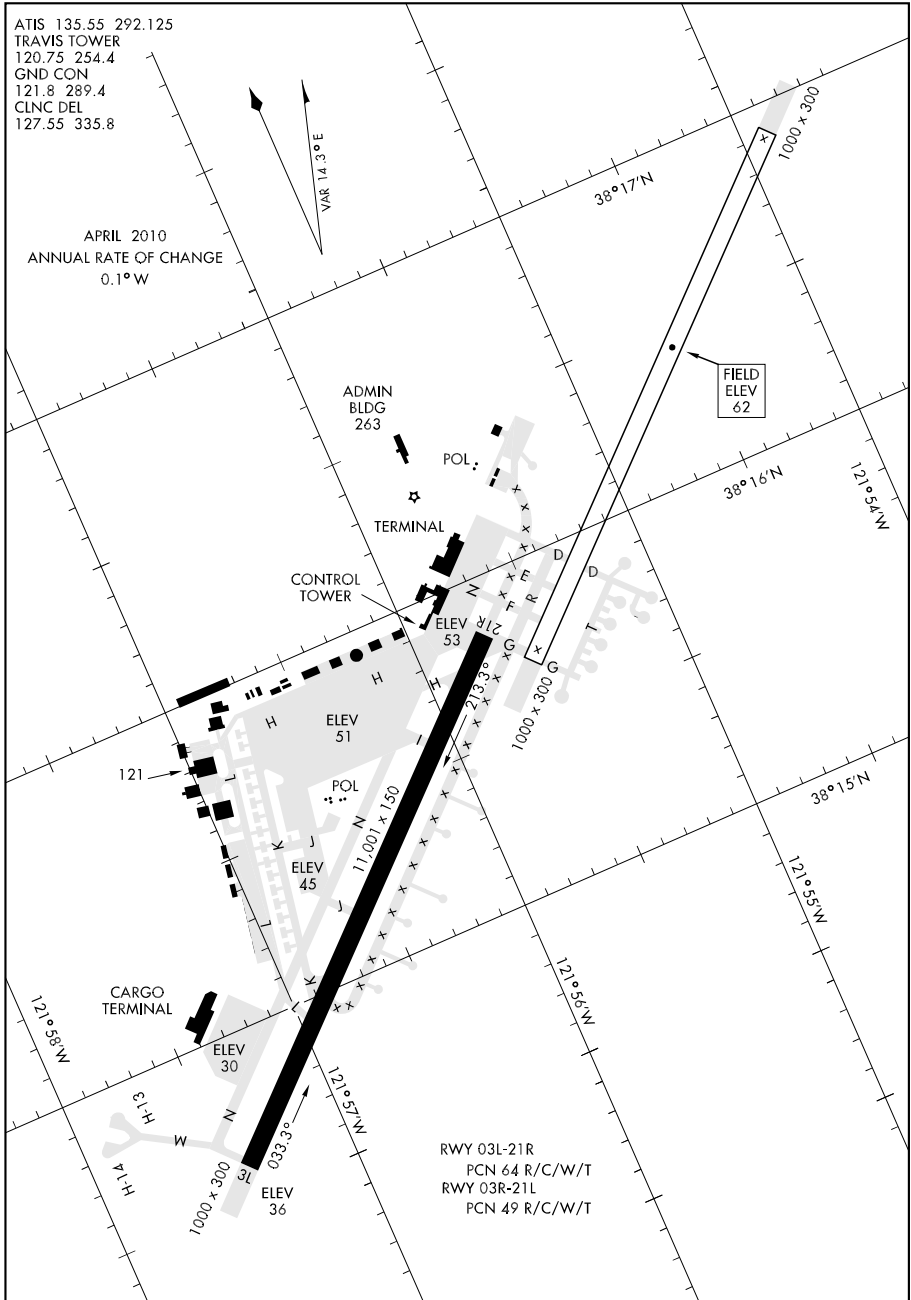
TORRANCE, CALIFORNIA
TORRANCE/ZAMPERINI FIELD (TOA)

10098

AIRPORT DIAGRAM

[USAF] AFD-488

TRAVIS AFB (KSUU)
FAIRFIELD, CALIFORNIA



AIRPORT DIAGRAM

FAIRFIELD, CALIFORNIA
TRAVIS AFB (KSUU)

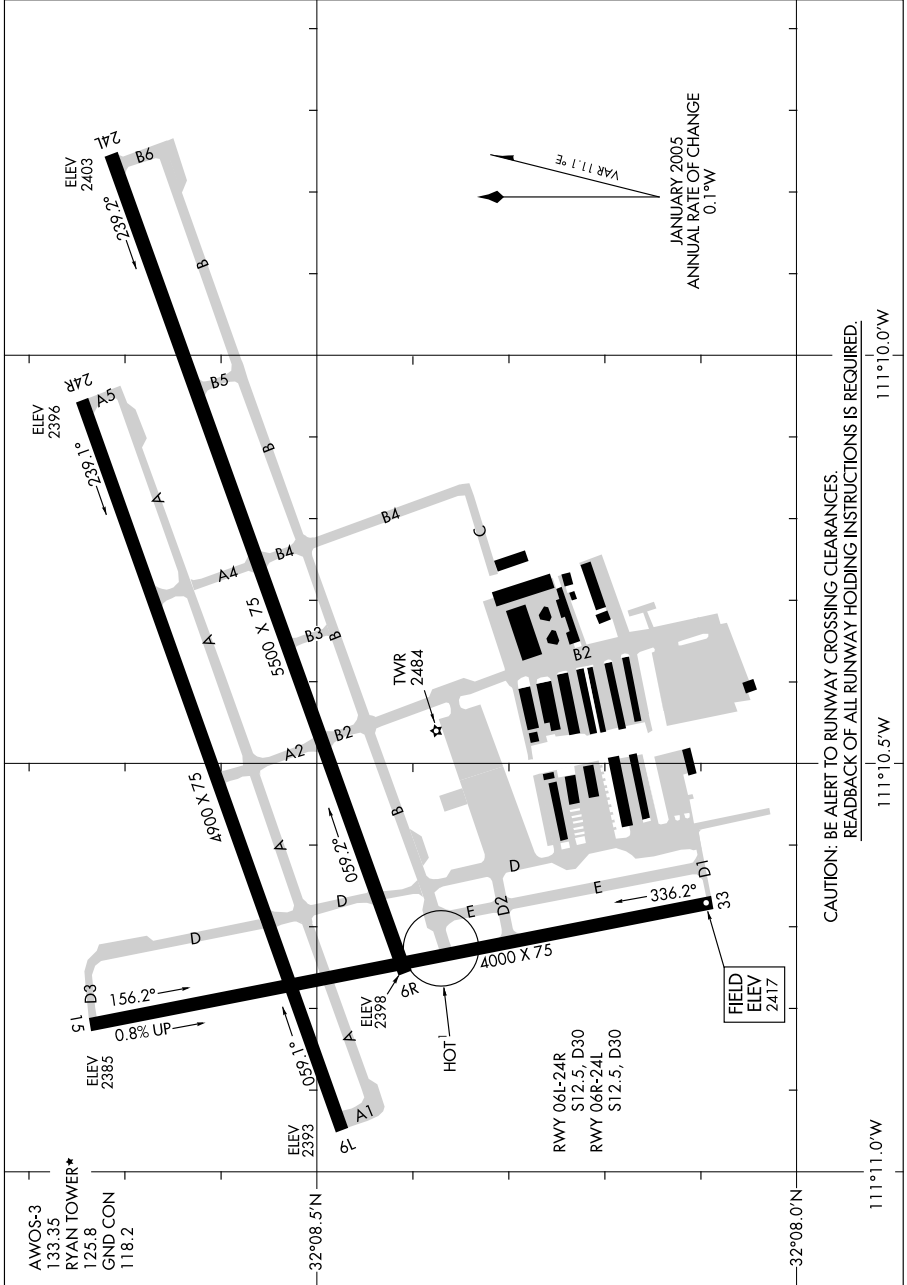
09351

AIRPORT DIAGRAM

AL-6513 (FAA)

TUCSON/RYAN FIELD (RYN)

TUCSON, ARIZONA



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

AIRPORT DIAGRAM

09351

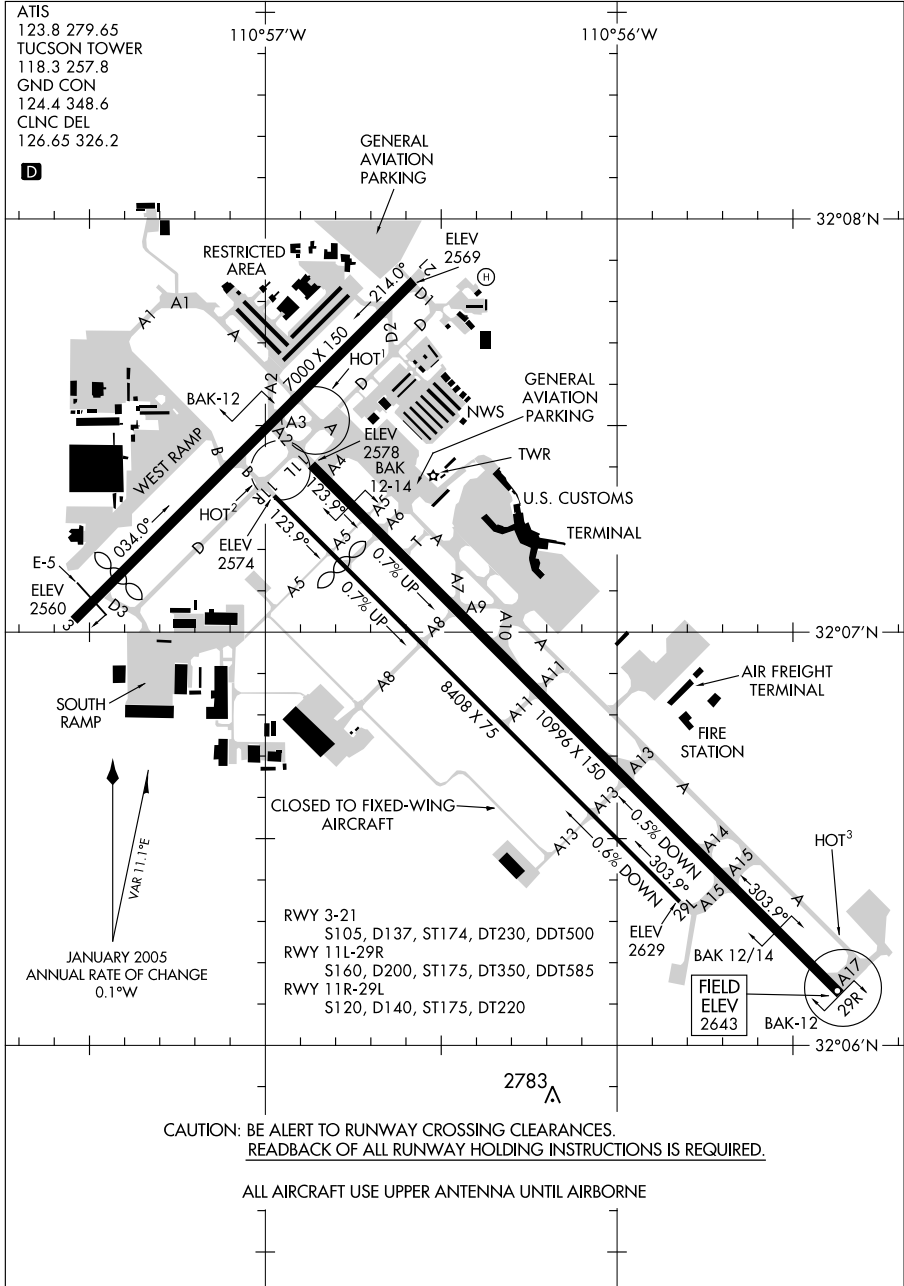
TUCSON, ARIZONA
TUCSON/RYAN FIELD (RYN)

09351

AIRPORT DIAGRAM

AL-430 (FAA)

TUCSON INTL (TUS)
TUCSON, ARIZONA



AIRPORT DIAGRAM

09351

TUCSON, ARIZONA
TUCSON INTL (TUS)

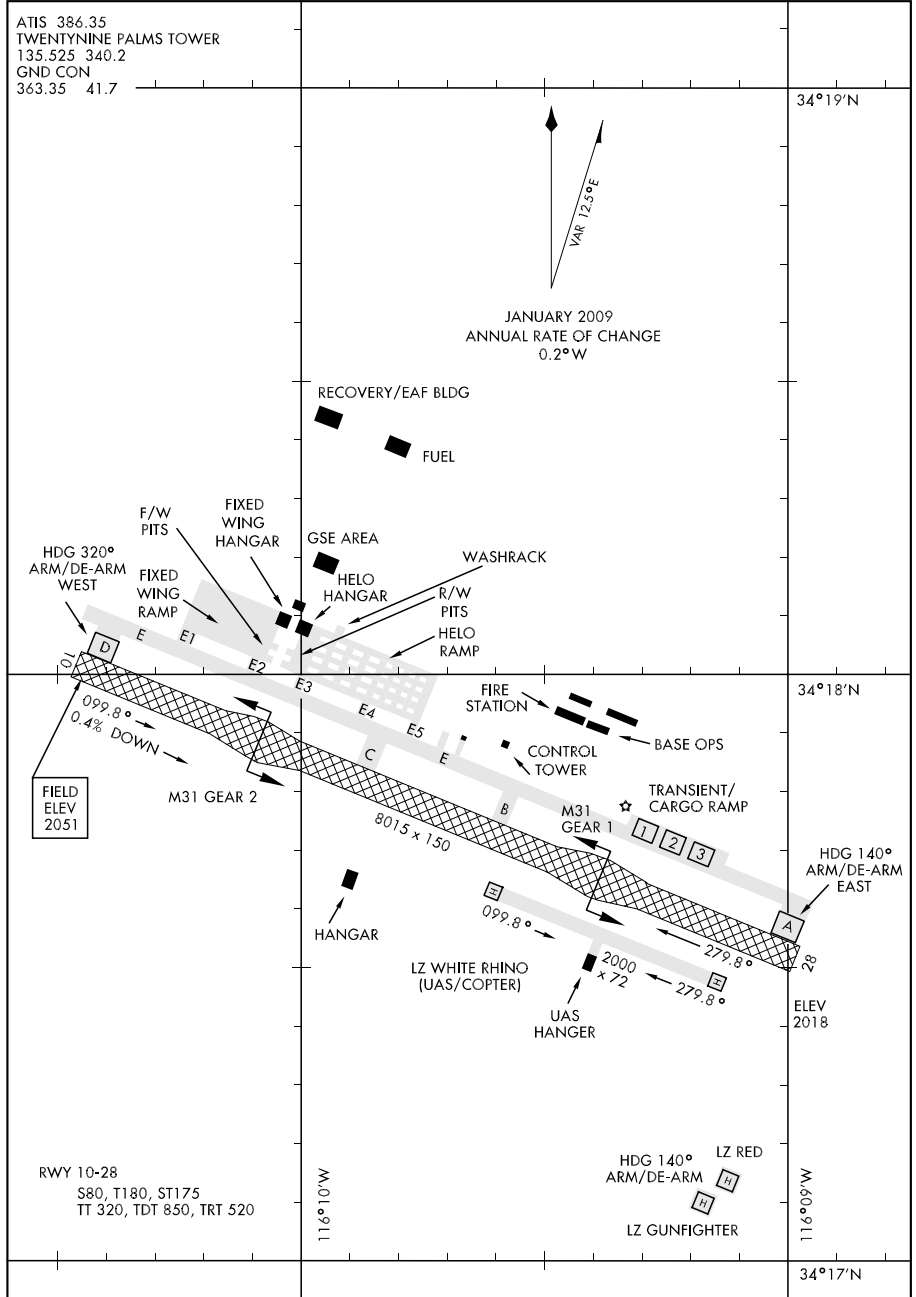
09015

AIRPORT DIAGRAM

AFD-3160 [USN]

TWENTYNINE PALMS SELF (KNXP)

TWENTYNINE PALMS, CALIFORNIA



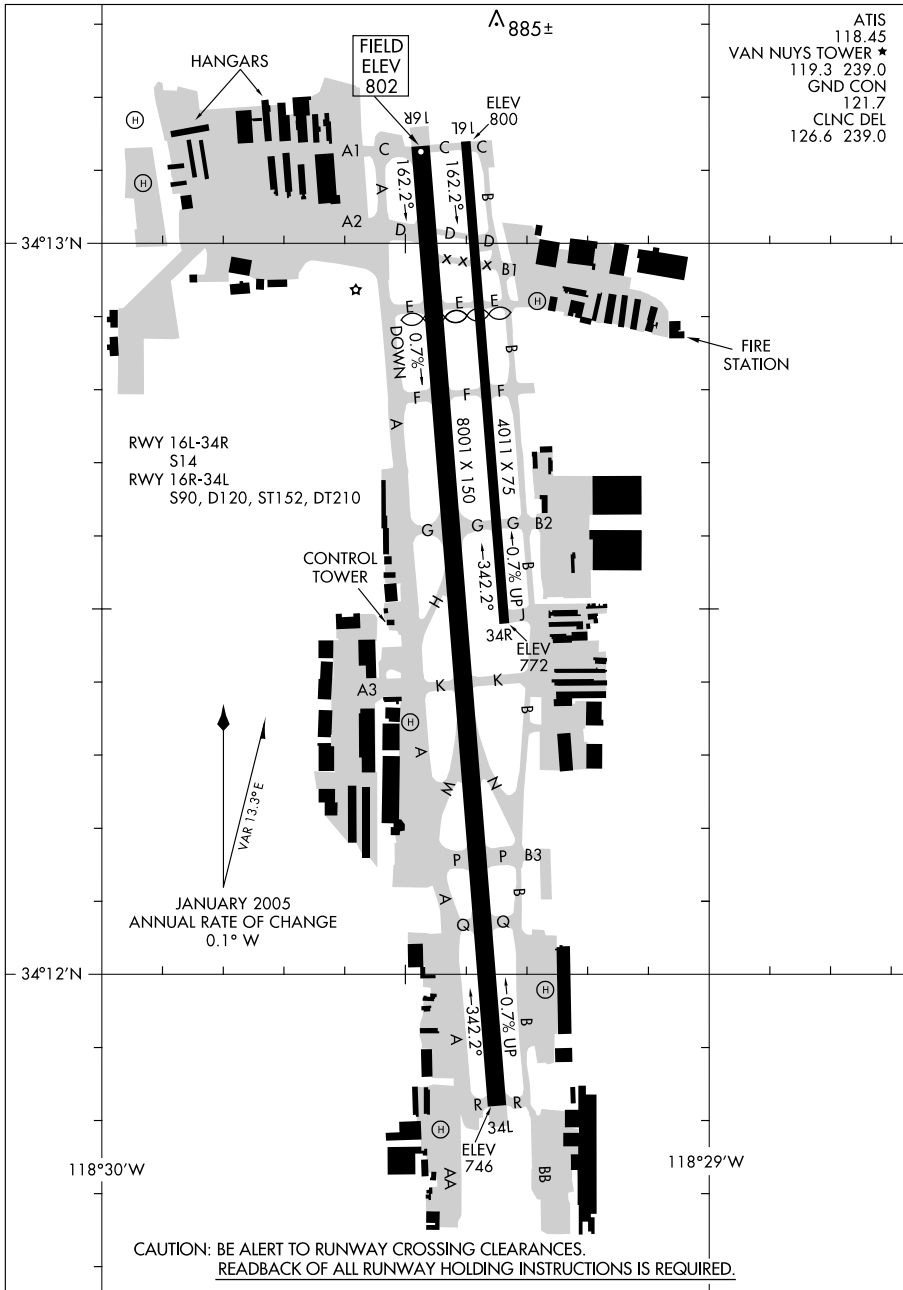
AIRPORT DIAGRAM

TWENTYNINE PALMS, CALIFORNIA
TWENTYNINE PALMS SELF (KNXP)

09183

AIRPORT DIAGRAM

VAN NUYS (VNY)
VAN NUYS, CALIFORNIA



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

AIRPORT DIAGRAM

09183

VAN NUYS, CALIFORNIA
VAN NUYS (VNY)

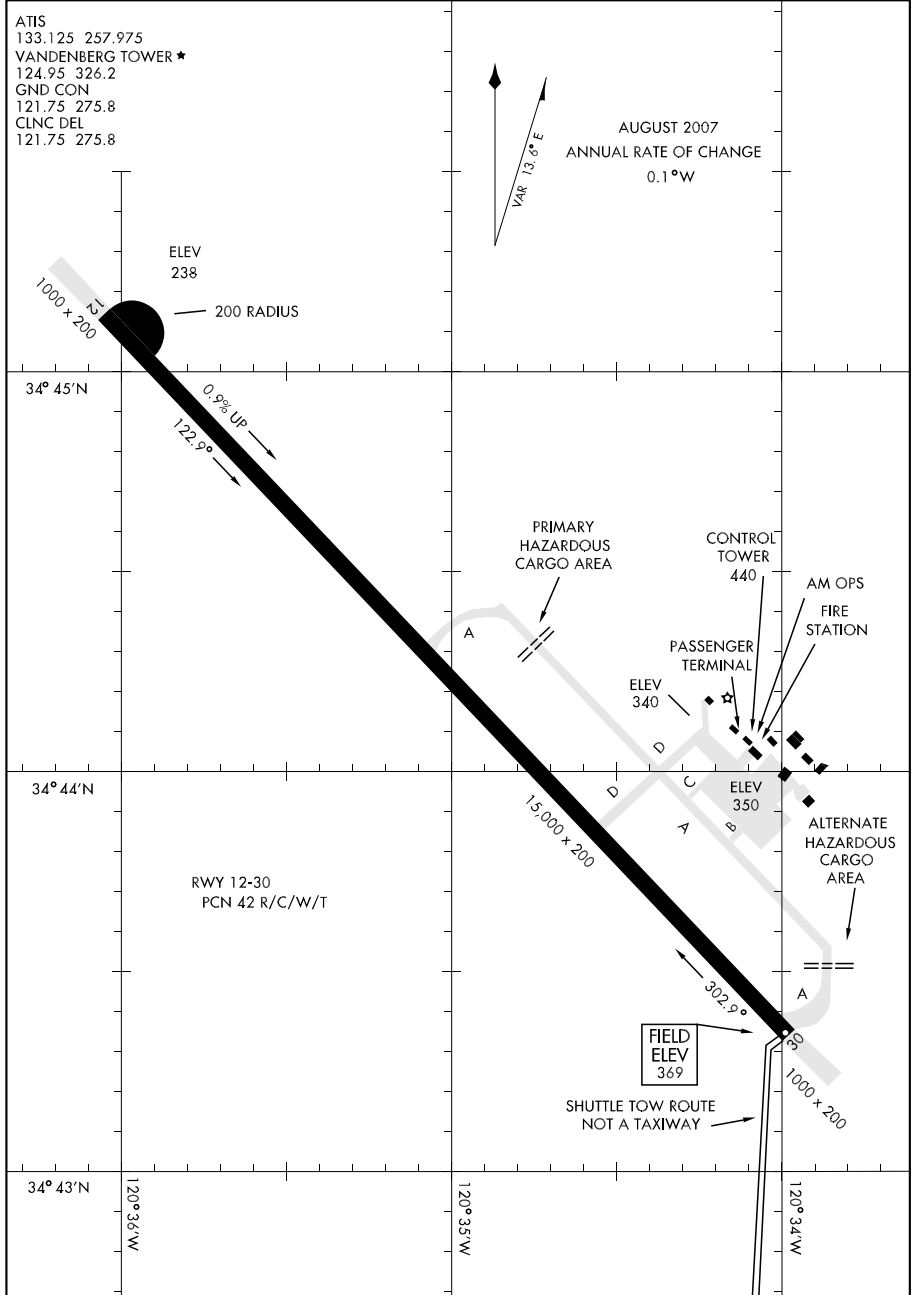
07242

AIRPORT DIAGRAM

AFD-770 [USAF]

VANDENBERG AFB (KVBG)

LOMPOC, CALIFORNIA



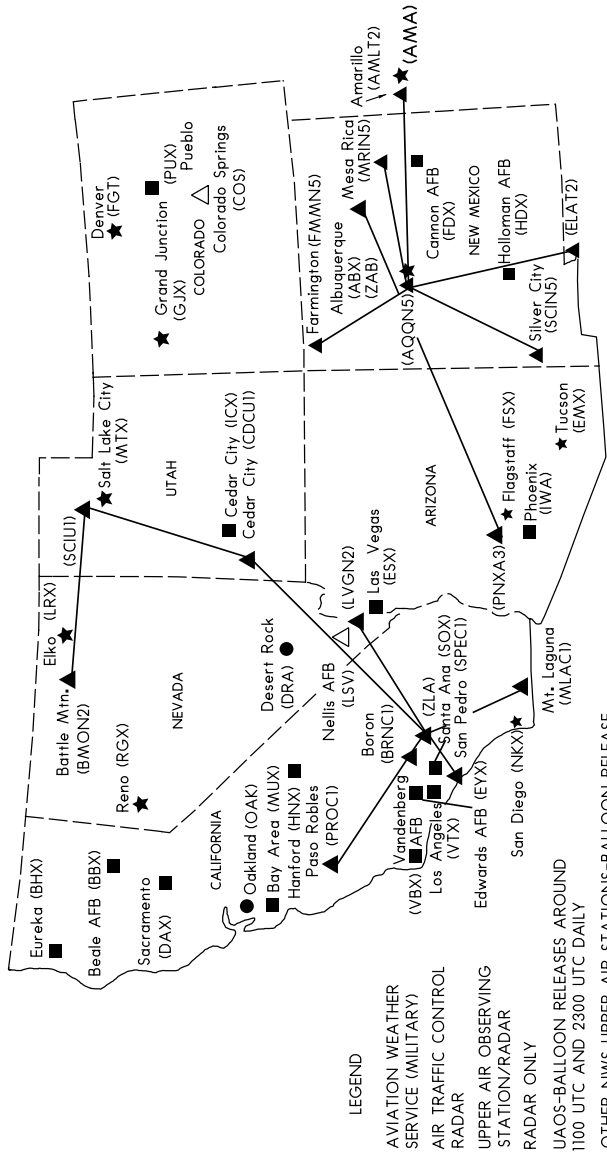
AIRPORT DIAGRAM

LOMPOC, CALIFORNIA

VANDENBERG AFB (KVBG)

**INTENTIONALLY
LEFT
BLANK**

NATIONAL WEATHER SERVICE (NWS)
UPPER AIR OBSERVING STATIONS (UAOS)
AND
WEATHER RADAR NETWORK



- LEGEND**
- △ AVIATION WEATHER SERVICE (MILITARY)
 - ▲ AIR TRAFFIC CONTROL RADAR
 - ★ UPPER AIR OBSERVING STATION/RADAR
 - RADAR ONLY
 - UAOS-BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY
 - OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

