

VFR AERONAUTICAL CHART SYMBOLS

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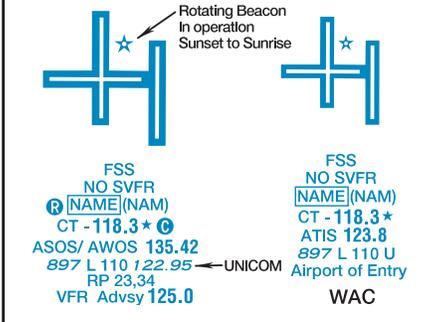
VFR FLYWAY PLANNING CHARTS

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GENERAL INFORMATION

Symbols shown are for World Aeronautical Charts (WAC), Sectional aeronautical charts and Terminal Area Charts (TAC). When a symbol is different on any VFR chart series, it will be annotated thus:
WAC or Not shown on WAC.

AIRPORTS	
<p>LANDPLANE-MILITARY Refueling and repair facilities for normal traffic.</p> <p>All recognizable runways, including some which may be closed, are shown for visual identification.</p> <p>Airports having control towers (CT) are shown in blue, all others in magenta.</p>	    <p>WAC</p>
<p>SEAPLANE-MILITARY Refueling and repair facilities for normal traffic.</p>	  <p>WAC</p>
<p>LANDPLANE-CIVIL Refueling and repair facilities for normal traffic.</p>	      <p>WAC</p>
<p>SEAPLANE-CIVIL Refueling and repair facilities for normal traffic.</p>	  <p>WAC</p>
<p>LANDPLANE CIVIL-MILITARY Refueling and repair facilities for normal traffic.</p>	    <p>WAC</p>
<p>SEAPLANE CIVIL-MILITARY Refueling and repair facilities for normal traffic.</p>	  <p>WAC</p>
<p>LANDPLANE-EMERGENCY</p> <p>No facilities</p> <p>or</p> <p>Complete information is not available.</p> <p>Add appropriate notes as required: "closed, approximate position, existence unconfirmed.</p>	  <p>PUBLIC USE - Limited attendance or no service available</p>   <p>RESTRICTED OR PRIVATE - Use only in emergency, or by specific authorization</p>   <p>UNVERIFIED - A landing area available for public use but warranting more than ordinary precaution due to: (1) lack of current information on field conditions, and / or (2) available information indicates peculiar operating limitations.</p>   <p>ABANDONED - Depicted for landmark value or to prevent confusion with an adjacent usable landing area. (Normally at least 3000' paved)</p> <p>WAC</p>

AIRPORTS	
<p>SEAPLANE-EMERGENCY No facilities or complete information is not available</p>	  <p>WAC</p>
<p>HELIPORT (Selected)</p>	  <p>WAC</p>
<p>ULTRALIGHT FLIGHT PARK (Selected)</p>	 <p>Not shown on WAC</p>
<p>AIRPORT DATA GROUPING</p>	 <p>FSS - Flight Service Station on field NO SVFR - Airports where fixed wing special visual flight rules operations are prohibited (shown above airport name) F.A.R. 91  - Indicates F.A.R. 93 Special Air Traffic Rules and Airport Traffic Patterns  - Airport Surveillance Radar (Not shown on WAC) (NAM) - Location Identifier (Not shown on WAC) CT - 118.3 - Control Tower (CT) - primary frequency ★ - Star indicates operation part-time. See tower frequencies tabulation for hours of operation C - Indicates Common Traffic Advisory Frequencies (CTAF) (Not shown on WAC) ATIS 123.8 - Automatic Terminal Information Service ASOS/ AWOS 135.42 - Automated Surface Weather Observing Systems (Shown when full-time ATIS is not available.) Some ASOS/AWOS facilities may not be located at airport. (Not shown on WAC) 897 - Elevation in feet L - Lighting in operation Sunset to Sunrise *L - Lighting limitations exist; refer to Airport/Facility Directory. 110 - Length of longest runway in hundreds of feet; usable length may be less. UNICOM - Aeronautical advisory station (*U* only on WAC) RP 23,34 - Runways with Right Traffic Patterns (public use) (Not shown on WAC) RP* - (See Airport/Facility Directory) VFR Advsy 125.0 - VFR Advisory Service shown where ATIS is not available and frequency is other than primary CT frequency.</p> <p>When lighting is not available, the respective character is replaced by a dash. All lighting codes refer to runway lights. Lighted runway may not be the longest or lighted full length.</p>

AIRSPACE INFORMATION

CLASS B AIRSPACE

Appropriate notes as required may be shown.

Only the airspace effective below 18,000 feet MSL are shown.

(Mode C see FAR 91.215 /AIM)

All mileages are nautical (NM).

All radials are magnetic.

LAS VEGAS CLASS B

NAVAID identifier and distance from facility (TAC Only).

NAVAID identifier and radial from facility (TAC Only).

WAC

Outer limit only, segments not shown

FOR FLIGHTS AT AND BELOW 8000' MSL SEE KANSAS CITY VFR TERMINAL AREA CHART

(WAC only)

80 - Ceiling of Class B in hundreds of feet MSL

40 - Floor of Class B in hundreds of feet MSL

CTC LAS VEGAS APP ON 121.1 OR 257.8

(TAC only)

CLASS C AIRSPACE

Appropriate notes as required may be shown.

(Mode C see FAR 91.215 /AIM)

BURBANK CLASS C

See NOTAMs/Directory for Class C eff hrs

See NOTAMs/Directory for Class C eff hrs

WAC

Outer limit only, segments not shown

FOR FLIGHTS AT OR BELOW 6600' MSL SEE PHOENIX VFR SECTIONAL CHART

(WAC only)

48 - Ceiling of Class C in hundreds of feet MSL

30 - Floor of Class C in hundreds of feet MSL

CTC BURBANK APP WITHIN 20 NM ON 124,6 395,9

Not shown on WAC

AIRSPACE INFORMATION

CLASS D AIRSPACE

See NOTAMs/Directory for Class D eff hrs

See NOTAMs/Directory for Class D/E (sfc) eff hrs

(A minus in front of the figure is used to indicate "from surface to but not including...")

ALTITUDE IN HUNDREDS OF FEET MSL

Not shown on WAC

CLASS E AIRSPACE

The limits of Class E airspace shall be shown by narrow vignettes or by the dashed magenta symbol. Individual units of designated airspace are not necessarily shown; instead, the aggregate lateral and vertical limits shall be defined by the following:

Airspace beginning at the surface designated around airports ...

See NOTAMs/Directory for Class D/E (sfc) eff hrs

See NOTAMs/Directory for Class E (sfc) eff hrs

See NOTAMs/Directory for 700' Class E eff hrs

Airspace beginning at 700 feet AGL ...

Airspace beginning at 1200 feet AGL or greater that abuts uncontrolled airspace (Class G) ...

8000 AGL

CEILING 14,000 MSL

Not shown on WAC

OFFSHORE CONTROL AREAS

Class G Airspace

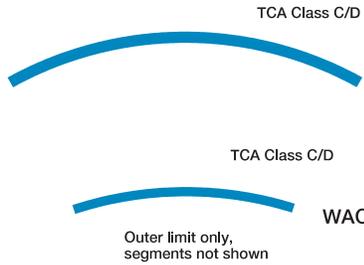
WAC

AIRSPACE INFORMATION

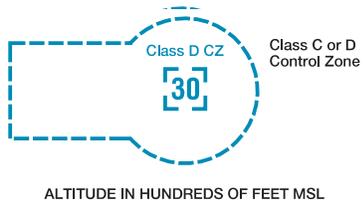
CANADIAN AIRSPACE

Individual units of designated Canadian airspace are not necessarily shown; instead, the aggregate lateral and vertical limits shall be portrayed as closely as possible to the comparable U.S. airspace.

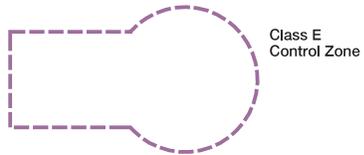
Appropriate notes as required may be shown.



125 - Ceiling of TCA Class C/D in hundreds of feet MSL
 25 - Floor of TCA Class C/D in hundreds of feet MSL



ALTITUDE IN HUNDREDS OF FEET MSL



Not shown on WAC

AIRSPACE CLASSIFICATION/OPERATIONAL REQUIREMENTS MAY DIFFER BETWEEN CANADA AND UNITED STATES (SEE DOD AREA PLANNING AP/1)

NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION WITHIN CANADIAN AIRSPACE

FLIGHT INFORMATION REGIONS (FIR) and/or (CTA)



OCEANIC CONTROL AREAS (OCA)

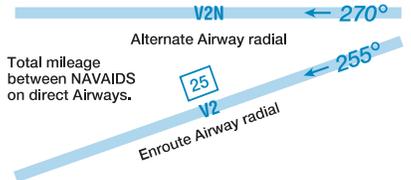


AIRSPACE INFORMATION

AIR DEFENSE IDENTIFICATION ZONE (ADIZ)

Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.

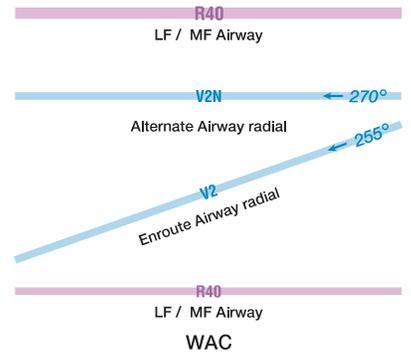
ALASKA ADIZ



LOW ALTITUDE AIRWAYS VOR and LF / MF (CLASS E AIRSPACE)

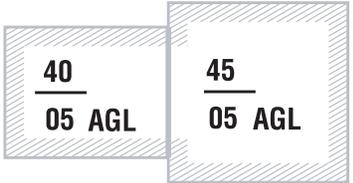
Low altitude Federal Airways are indicated by centerline.

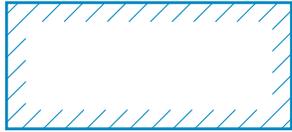
Only the controlled airspace effective below 18,000 feet MSL is shown.

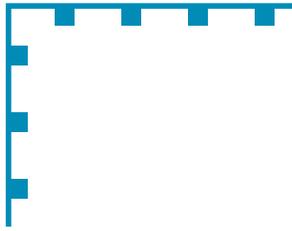
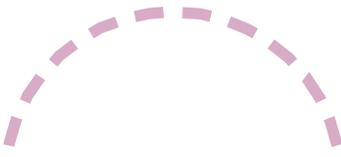
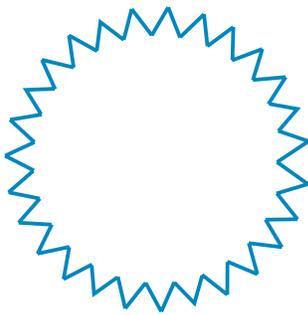


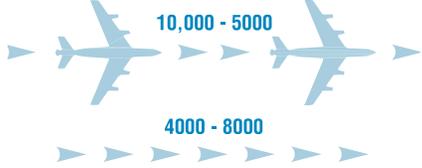
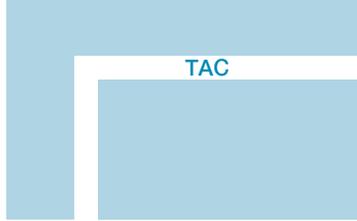
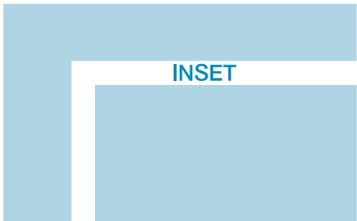
MISCELLANEOUS AIR ROUTES



AIRSPACE INFORMATION	
<p>SPECIAL USE AIRSPACE</p> <p><i>Only the airspace effective below 18,000 feet MSL are shown.</i></p> <p><i>The type of area shall be spelled out in large areas if space permits.</i></p>	 <p>PROHIBITED, RESTRICTED OR WARNING AREA</p>  <p>ALERT AREA</p>  <p>MILITARY OPERATIONS AREA (MOA)</p>
<p>MILITARY TRAINING ROUTES (MTR)</p>	 <p>Not shown on WAC</p>
<p>SPECIAL MILITARY ACTIVITY ROUTES (SMAR)</p> <p><i>Boxed notes (as in text) shown adjacent to route.</i></p>	 <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>SPECIAL MILITARY ACTIVITY CONTACT MOBILE FSS ON 123.6 FOR ACTIVITY STATUS</p> </div> <p>40 --- Ceiling of SMAR in hundreds of feet MSL 05 AGL --- Floor of SMAR in hundreds of feet AGL</p> <p>Not shown on WAC</p>

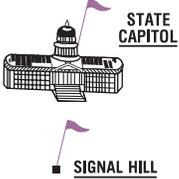
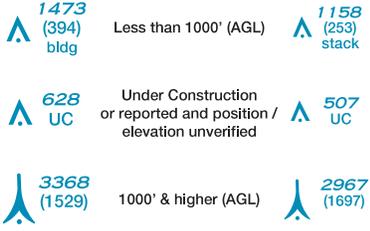
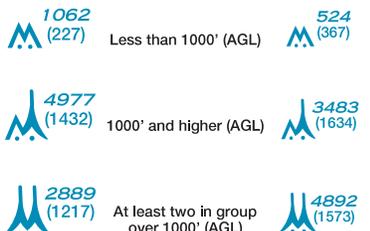
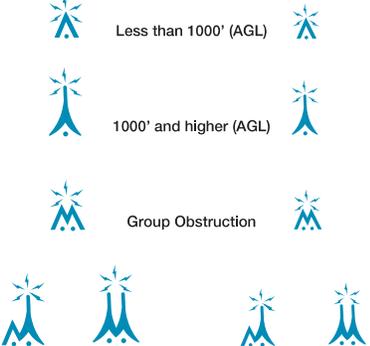
AIRSPACE INFORMATION	
<p>SPECIAL AIR TRAFFIC RULES / AIRPORT PATTERNS (FAR 93)</p> <p><i>Appropriate boxed note as required shown adjacent to area.</i></p>	 <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>SPECIAL NOTICE Pilots are required to obtain an ATC clearance prior to entering this area.</p> </div>
<p>SPACE OPERATIONS AREA (FAR 91.143)</p>	 <p>DARKER TINT IS FAR 91.143 AREA</p> <p>Not shown on WAC</p>
<p>MODE C (FAR 91.215)</p> <p><i>Appropriate notes as required may be shown.</i></p>	
<p>MISCELLANEOUS AIRSPACE AREAS</p> <p>Parachute Jumping Area with Frequency</p> <p>Glider Operating Area</p> <p>Ultralight Activity</p> <p>Hang Glider Activity</p>	 <p>122.9</p>    <p>Not shown on WAC</p>
<p>SPECIAL CONSERVATION AREAS</p> <p>National Park, Wildlife Refuge, Primitive and Wilderness Areas, etc.</p>	 <p>Not shown on WAC</p>

AIRSPACE INFORMATION	
<p>SPECIAL AIRSPACE AREAS</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR) AREAS</p> <p>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR) 14 CFR Part 93, Subpart U and SFAR 50.2 - GRAND CANYON NATIONAL PARK SPECIAL FLIGHT RULES AREA. Special regulations apply to all aircraft operations below 18,000 feet MSL.</p>
<p>NATIONAL SECURITY AREA</p>	 <p>FOR REASONS OF NATIONAL SECURITY PILOTS ARE REQUESTED TO AVOID FLIGHT BELOW 1200' MSL IN THIS AREA</p> <p>Not shown on WAC</p>
<p>HIGH ENERGY RADIATION AREAS</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p>HAZARDOUS LASER TRANSMISSIONS SFC to infinity See Airport Facility/Directory</p>  <p>WAC</p>
<p>TERMINAL RADAR SERVICE AREA (TRSA)</p> <p><i>Appropriate notes as required may be shown.</i></p>	<p>PALM SPRINGS TRSA</p>  <p>80 - Ceiling of TRSA in hundreds of feet MSL 40 - Floor of TRSA In hundreds of feet MSL</p> <p>SEE TWR FREQ TAB</p> <p>Not shown on WAC</p>

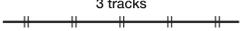
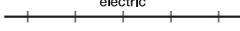
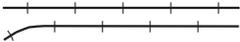
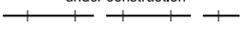
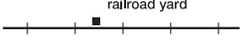
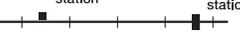
AIRSPACE INFORMATION	
<p>IFR ROUTES</p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Arrival</p> <p>Departure</p>	 <p>TAC only</p>
CHART LIMITS	
<p>OUTLINE ON SECTIONAL OF TERMINAL AREA CHART</p>	<p>Sectional charts only</p>  <p>LOS ANGELES TERMINAL AREA Pilots are encouraged to use the Los Angeles VFR Terminal Area Chart for flights at or below 10,000'</p> <p>Not shown on WAC</p>
<p>OUTLINE ON SECTIONAL OF THE INSET CHART</p>	<p>Sectional charts only</p>  <p>If inset chart is on a different chart:</p> <p>INDIANAPOLIS INSET See inset chart on the St. Louis Sectional for additional information</p> <p>If inset chart is on the same chart as outline:</p> <p>INDIANAPOLIS INSET See inset chart for additional detail</p> <p>Not shown on WAC</p>

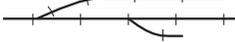
NAVIGATION AND PROCEDURAL INFORMATION	
<p>ISOGNIC LINE & VALUE</p> <p><i>Isogonic lines and values shall be based on the five year epoch chart.</i></p>	<p>WAC</p>
<p>LOCAL MAGNETIC NOTES</p> <p>Unreliability Notes</p>	<div style="border: 1px solid purple; padding: 5px; width: fit-content; margin: auto;"> <p>Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity.</p> </div>
<p>COMPASS ROSETTE</p> <p><i>Shown only in areas void of VOR roses.</i></p> <p><i>Compass rosette will be set to ground magnetic variation.</i></p>	
<p>INTERSECTIONS</p> <p><i>Named intersections used as reporting points. Arrows are directed toward facilities which establish intersection.</i></p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>ANGOO</p> <p>VHF</p> </div> <div style="text-align: center;"> <p>ROAMS</p> <p>LF / MF</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>WATSY</p> <p>Combined VHF - LF / MF</p> <p>Not shown on WAC</p> </div>
<p>AERONAUTICAL LIGHTS</p>	<p style="text-align: center;">Rotating or Oscillating Located at Aerodrome</p> <div style="display: flex; justify-content: space-around; align-items: center;"> </div> <p style="text-align: center;">In isolated location on top of high structure</p> <p style="text-align: center;">WAC</p>

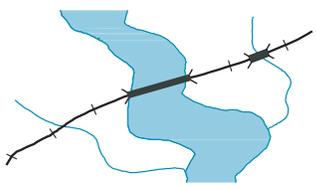
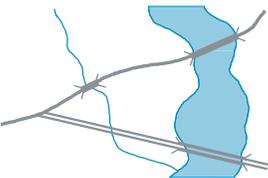
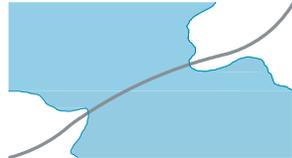
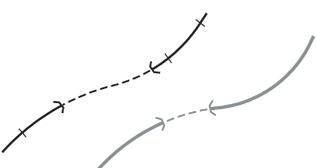
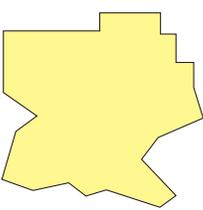
NAVIGATION AND PROCEDURAL INFORMATION			
<p>AERONAUTICAL LIGHTS</p>	<p style="text-align: center;">Rotating Light with Flashing Code Identification Light</p> <div style="display: flex; justify-content: space-around;"> </div> <p style="text-align: center;">Rotating Light with Course Lights and Site Number</p> <div style="display: flex; justify-content: space-around;"> </div> <div style="display: flex; justify-content: space-around;"> </div> <div style="display: flex; justify-content: space-around;"> </div> <p style="text-align: center;">Flashing Light</p> <div style="display: flex; justify-content: space-around;"> </div> <div style="display: flex; justify-content: space-around;"> </div> <p style="text-align: center;">WAC</p>		
<p>MARINE LIGHTS With Characteristics of Light</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Land Light</p> </div> <div style="text-align: center;"> <p>Land Light</p> </div> </div> <p style="text-align: center;">WAC</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>R Red</p> <p>*W White</p> <p>G Green</p> <p>B Blue</p> <p>SEC Sector</p> <p>F Fixed</p> <p>Oc Single Occulting</p> <p>Oc (2) Group Occulting</p> <p>Oc (2+1) Composite Group Occulting</p> <p>Iso Isophase</p> <p>FI Flashing</p> <p>FI (2) Group Flashing</p> <p>FI (2+1) Composite Group Flashing</p> <p>Q Quick</p> <p>IQ Interrupted Quick</p> <p>Mo (A) Morse Code</p> <p>FFI Fixed and Flashing</p> <p>AI Alternating</p> <p>Gp Group</p> <p>LFI Long Flash</p> <p>Q (3) Group Quick Flashing</p> <p>IQ Interrupted Quick Flashing</p> <p>VQ Very Quick Flashing</p> <p>VQ (3) Group Very Quick Flashing</p> <p>IVQ Interrupted Very Quick Flashing</p> <p>UQ Ultra Quick Flashing</p> <p>IUQ Interrupted Ultra Quick Flashing</p> </td> <td style="width: 50%; vertical-align: top;"> <p>*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted.</p> </td> </tr> </table>	<p>R Red</p> <p>*W White</p> <p>G Green</p> <p>B Blue</p> <p>SEC Sector</p> <p>F Fixed</p> <p>Oc Single Occulting</p> <p>Oc (2) Group Occulting</p> <p>Oc (2+1) Composite Group Occulting</p> <p>Iso Isophase</p> <p>FI Flashing</p> <p>FI (2) Group Flashing</p> <p>FI (2+1) Composite Group Flashing</p> <p>Q Quick</p> <p>IQ Interrupted Quick</p> <p>Mo (A) Morse Code</p> <p>FFI Fixed and Flashing</p> <p>AI Alternating</p> <p>Gp Group</p> <p>LFI Long Flash</p> <p>Q (3) Group Quick Flashing</p> <p>IQ Interrupted Quick Flashing</p> <p>VQ Very Quick Flashing</p> <p>VQ (3) Group Very Quick Flashing</p> <p>IVQ Interrupted Very Quick Flashing</p> <p>UQ Ultra Quick Flashing</p> <p>IUQ Interrupted Ultra Quick Flashing</p>	<p>*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted.</p>
<p>R Red</p> <p>*W White</p> <p>G Green</p> <p>B Blue</p> <p>SEC Sector</p> <p>F Fixed</p> <p>Oc Single Occulting</p> <p>Oc (2) Group Occulting</p> <p>Oc (2+1) Composite Group Occulting</p> <p>Iso Isophase</p> <p>FI Flashing</p> <p>FI (2) Group Flashing</p> <p>FI (2+1) Composite Group Flashing</p> <p>Q Quick</p> <p>IQ Interrupted Quick</p> <p>Mo (A) Morse Code</p> <p>FFI Fixed and Flashing</p> <p>AI Alternating</p> <p>Gp Group</p> <p>LFI Long Flash</p> <p>Q (3) Group Quick Flashing</p> <p>IQ Interrupted Quick Flashing</p> <p>VQ Very Quick Flashing</p> <p>VQ (3) Group Very Quick Flashing</p> <p>IVQ Interrupted Very Quick Flashing</p> <p>UQ Ultra Quick Flashing</p> <p>IUQ Interrupted Ultra Quick Flashing</p>	<p>*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted.</p>		

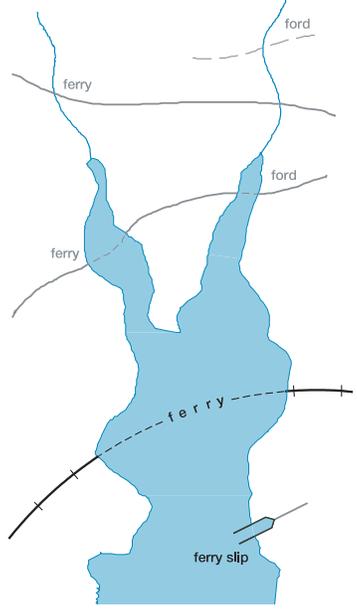
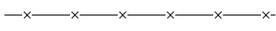
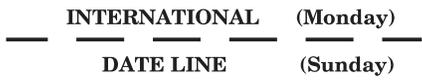
NAVIGATION AND PROCEDURAL INFORMATION	
VISUAL GROUND SIGNS <i>Shore and Landmarkers</i>	 <p>Arrow points to location of marker</p>  <p>Actual location of ground sign</p>
VFR CHECK POINTS	 <p>STATE CAPITOL</p> <p>SIGNAL HILL</p> <p>Not shown on WAC</p>
VFR WAYPOINTS Stand-Alone Colocated with VFR Check Point	 VPXYZ  NAME (VPXYZ) Not shown on WAC
OBSTRUCTION	 <p>Less than 1000' (AGL)</p> <p>Under Construction or reported and position / elevation unverified</p> <p>1000' & higher (AGL)</p> <p>WAC</p>
GROUP OBSTRUCTION	 <p>Less than 1000' (AGL)</p> <p>1000' and higher (AGL)</p> <p>At least two in group over 1000' (AGL)</p> <p>WAC</p>
HIGH INTENSITY OBSTRUCTION LIGHTS <i>High intensity lights may operate part-time.</i>	 <p>Less than 1000' (AGL)</p> <p>1000' and higher (AGL)</p> <p>Group Obstruction</p> <p>WAC</p>

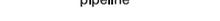
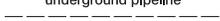
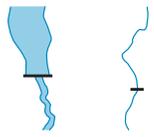
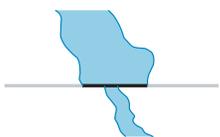
NAVIGATION AND PROCEDURAL INFORMATION	
MAXIMUM ELEVATION FIGURE (MEF)	<p style="font-size: 2em; font-weight: bold; color: blue;">135</p>
WARNING, CAUTION NOTES <i>Used when specific area is not demarcated.</i>	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold; font-size: 0.8em;">WARNING</p> <p style="font-size: 0.7em;">Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.</p> </div> <div style="border: 1px solid blue; padding: 5px;"> <p style="font-size: 0.7em;">CAUTION: Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.</p> </div>

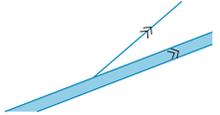
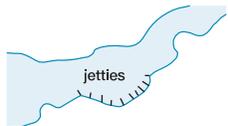
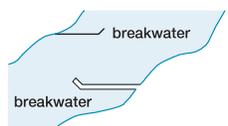
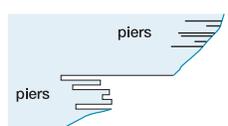
CULTURE	
RAILROADS <i>All gauges</i> Single Track	 
Double Track	 
More Than Two Tracks	
Electric	
RAILROADS IN JUXTAPOSITION	
RAILROAD-NONOPERATING, ABANDONED, DESTROYED, OR UNDER CONSTRUCTION	
RAILROAD YARDS Limiting Track To Scale	
Location Only	
RAILROAD STATIONS	

CULTURE	
RAILROAD SIDINGS AND SHORT SPURS	
ROADS	
Dual Lane Category 1	
Primary Category 2	
Secondary Category 2	
TRAILS Category 3	 <p><i>Provides symbolization for dismantled railroad when combined with label "dismantled railroad."</i></p>
ROAD MARKERS	
U.S. Route No.	
Interstate Route No.	
Air Marked Identification Label	
ROAD NAMES	
ROADS UNDER CONSTRUCTION	

CULTURE	
BRIDGES AND VIADUCTS	Railroad 
	Road 
OVERPASSES AND UNDERPASSES	
CAUSEWAYS	
TUNNELS-ROAD AND RAILROAD	
POPULATED PLACES OUTLINED	
Large Cities Category 1	
Cities and Large Towns Category 2	
POPULATED PLACES	
Towns and Villages Category 3	 WAC

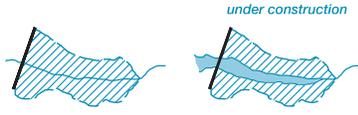
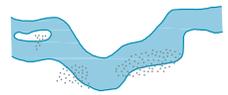
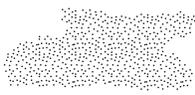
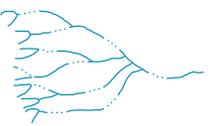
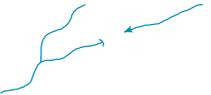
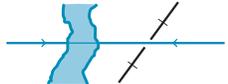
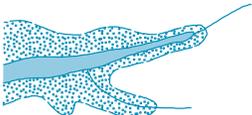
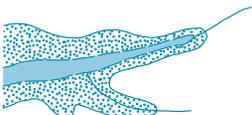
CULTURE	
FERRIES, FERRY SLIPS AND FORDS	
PROMINENT FENCES	
BOUNDARIES	
International	
State and Provincial	
Convention or Mandate Line	
Date Line	

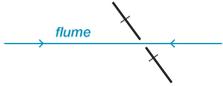
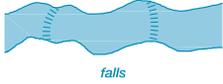
CULTURE	
TIME ZONES	<p>PST (+7DT) = UTC</p> <p>MST (+6DT) = UTC</p> <p>Not shown on WAC</p>
MINES AND QUARRIES	<p><i>Shaft Mines and Quarries</i></p> 
POWER TRANSMISSION & TELECOMMUNICATION LINES	 <p>----- WAC</p>
PIPELINES	<p>pipeline</p> 
Underground	<p>underground pipeline</p> 
DAMS	
DAM CARRYING ROAD	
PASSABLE LOCKS	<p>locks</p> 

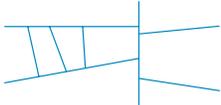
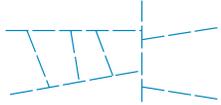
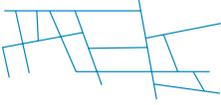
CULTURE	
SMALL LOCKS	
WEIRS AND JETTIES	<p>jetties</p> 
SEAWALLS	<p>seawall</p> 
BREAKWATERS	<p>breakwater</p> 
PIERS, WHARFS, QUAYS, ETC.	<p>piers</p> 
MISCELLANEOUS CULTURAL FEATURES	<ul style="list-style-type: none"> ■ stadium ■ fort ■ cemetery
OUTDOOR THEATER	
WELLS	<p>Other Than Water</p> <p>oil</p> 

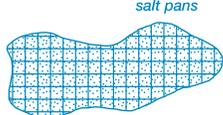
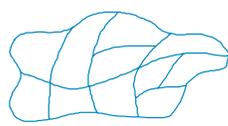
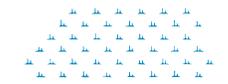
CULTURE	
RACE TRACKS	
LOOKOUT TOWERS	<p>Air marked identification</p> <p> P-17 (Site number) 618 (Elevation base of tower)</p>
LANDMARK AREAS	
TANKS	<ul style="list-style-type: none"> water gas
COAST GUARD STATION	
AERIAL CABLEWAYS, CONVEYORS, ETC.	<p> aerial cableway</p> <p> aerial cableway</p> <p>WAC</p>
HYDROGRAPHY	
OPEN WATER	
INLAND WATER	

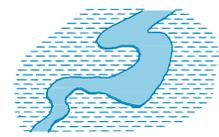
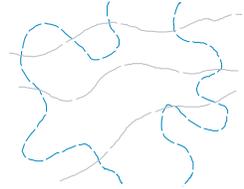
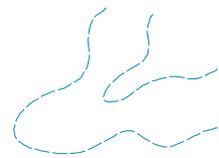
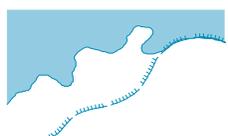
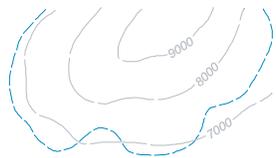
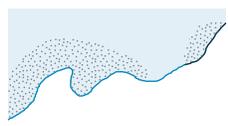
HYDROGRAPHY	
SHORELINES	
Definite	
Fluctuating	
Unsurveyed Indefinite	
Man-made	
LAKES	
Label as required	
Perennial	<p><i>When too numerous to show individual lakes, show representative pattern and descriptive note.</i></p> <p> numerous small lakes</p> <p></p>
Non-Perennial	<p><i>(dry, intermittent, etc.) Illustration includes small perennial lake</i></p> <p></p>
RESERVOIRS	
Natural Shorelines	
Man-made Shorelines	<p></p> <p><i>Label when necessary for clarity</i></p>
Too small to show to scale	<p></p>

HYDROGRAPHY		HYDROGRAPHY	
Under Construction		Sand Deposits In and Along Riverbeds	
STREAMS		WET SAND AREAS	
Perennial		<i>Within and adjacent to desert areas</i>	
Non-Perennial		AQUEDUCTS	
Fanned Out <i>Alluvial fan</i>		Abandoned or Under Construction	
Braided		Underground	
Disappearing		Suspended or Elevated	
Seasonally Fluctuating <i>with undefined limits</i>		Tunnels	
<i>with maximum bank limits, prominent and constant</i>		Kanats <i>Underground aqueduct with air vents</i>	

HYDROGRAPHY	
FLUMES, PENSTOCKS AND SIMILAR FEATURES	
Elevated	
Underground	
FALLS	
Double-Line	
Single-Line	
RAPIDS	
Double-Line	
Single-Line	
CANALS	

HYDROGRAPHY	
To Scale	
Abandoned or Under Construction	
To Scale	
SMALL CANALS AND DRAINAGE / IRRIGATION DITCHES	
Perennial	
Non-Perennial	
Abandoned or Ancient	
Numerous <i>Representative pattern and/or descriptive note.</i>	
Numerous	

HYDROGRAPHY	
SALT EVAPORATORS AND SALT PANS MAN EXPLOITED	 salt pans
SWAMPS, MARSHES AND BOGS	
HUMMOCKS AND RIDGES	
MANGROVE AND NIPA	 mangrove
PEAT BOGS	 peat bog
TUNDRA	tundra
CRANBERRY BOGS	 cranberry bog
RICE PADDIES	 <i>Extensive areas indicated by label only.</i>

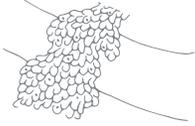
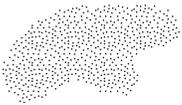
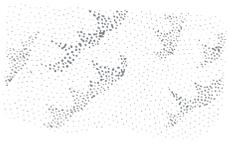
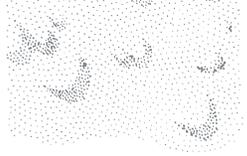
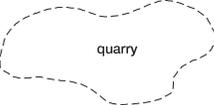
HYDROGRAPHY	
LAND SUBJECT TO INUNDATION	
SPRINGS, WELLS AND WATERHOLES	
GLACIERS	
Glacial Moraines	
ICE CLIFFS	
SNOWFIELDS, ICE FIELDS AND ICE CAPS	
ICE PEAKS	
FORESHORE FLATS	 <i>Tidal flats exposed at low tide.</i>

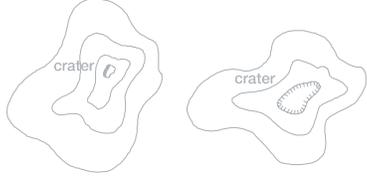
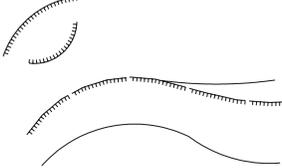
HYDROGRAPHY	
ROCKS-ISOLATED Bare or Awash	*
WRECKS Exposed	
REEFS-ROCKY OR CORAL	
MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLIZED	
FISH PONDS AND HATCHERIES	

HYDROGRAPHY	
ICE	
Permanent Polar Ice	
Pack Ice	

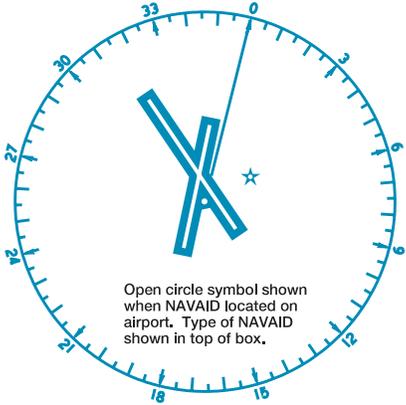
RELIEF	
CONTOURS	
Basic	
Approximate	
Intermediate	
Auxiliary	
Depression <i>Illustration includes mound within depression</i>	
Values	
SPOT ELEVATIONS	
Position Accurate	
Position Accurate, Elevation Approximate	

RELIEF	
Approximate location	
Critical	
Highest on Chart	
MOUNTAIN PASS	
HACHURING	
UNSURVEYED AREAS <i>Label appropriately as required</i>	
UNCONTOURED AREAS <i>Label appropriately as required</i>	
DISTORTED SURFACE AREAS	

RELIEF	
LAVA FLOWS	
SAND OR GRAVEL AREAS	
SAND RIDGES To Scale	
SAND DUNES To Scale	
SHADED RELIEF	
ROCK STRATA OUTCROP	 rock strata
QUARRIES TO SCALE	 quarry
STRIPMINES, MINE DUMPS AND TAILINGS To Scale	 strip mine  mine dump

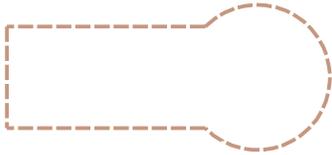
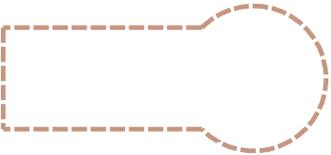
RELIEF	
CRATERS	
ESCARPMENTS, BLUFFS, CLIFFS, DEPRESSIONS, ETC.	
LEVEES AND ESKERS	 levee

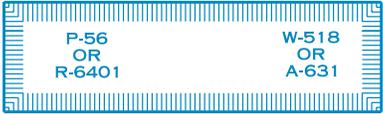
AIRPORTS	
<p>LANDPLANE</p> <p><i>All recognizable runways, including some which may be closed, are shown for visual identification.</i></p>  <p>Public </p> <p>Private </p>	
<p>HELIPORT</p> <p>Heliports public and private </p> <p>Hospital Helipads </p> <p>Trauma Center </p> <p>Helipads located at major airports </p>	
<p>SEAPLANE</p> 	
<p>ULTRALIGHT FLIGHT PARK</p> 	
<p>AIRPORT DATA GROUPING</p> <p><i>Boxed airport name indicates airport for which a Special Traffic Rule has been established.</i></p>  <p>Rotating Beacon in operation Sunset to Sunrise</p> <p>FSS NO SVFR NAME (NAM) CT -119.1 * (119.8 HELI) ATIS 115.4 ASOS/ AWOS 135.42 03 L 122.95  Airport of Entry</p>	
<p>FSS - Flight Service Station on field</p> <p>NO SVFR - Airspace where fixed wing special visual flight rules operations are prohibited (shown above airport name) F.A.R. 91.</p> <p> - Indicates F.A.R. 93 Special Air Traffic Rules and Airport Traffic (NAM)</p> <p>(NAM) - Location Identifier</p> <p>CT - 119.1 - Control Tower (CT) - primary frequency</p> <p>* - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.</p> <p>ATIS 115.4 - Automatic Terminal Information Service</p> <p>ASOS / AWOS 135.42 - Automated Surface Weather Observing Systems (Shown when full-time ATIS is not available.) NDBs broadcasting ASOS / AWOS data may not be located at the airport.</p> <p>03 - Elevation in feet</p> <p>L - Lighting in operation Sunset to Sunrise</p> <p>*L - Lighting limitations exist, refer to Airport/Facility Directory.</p> <p>122.95 - UNICOM - Aeronautical advisory station</p> <p> - Indicates Common Traffic Advisory Frequencies (CTAF)</p> <p>(Unverified) - Unverified Heliport</p> <p>When lighting is not available, the respective character is replaced by a dash. All lighting codes refer to runway lights. Lighted runway may not be the longest or lighted full length. Dashes are not shown on heliports or helipads unless additional information follows the elevation (e.g. UNICOM, CTAF).</p>	

RADIO AIDS TO NAVIGATION							
<p>VHF OMNI-DIRECTIONAL RADIO (VOR) RANGE</p>   <p>Open circle symbol shown when NAVAID located on airport. Type of NAVAID shown in top of box.</p> <p>Compass Rose oriented to slave variation.</p> <p>Operates less than continuous or on-request Transcribed Weather Broadcast (TWEB)</p> <p>VOR</p>  <p>Underline indicates no voice on this frequency.</p> <p>VORTAC</p> <table border="1"> <thead> <tr> <th>Low Frequency</th> <th>Name</th> <th>ASOS/AWOS</th> </tr> </thead> <tbody> <tr> <td>379 111.0 Ch 47 PTK</td> <td>PONTIAC</td> <td>A</td> </tr> </tbody> </table> <p>Freq and Channel Identification</p> <p>Hazardous Inflight Weather Advisory Service (HIWAS)</p> <p>VOR-DME</p> 	Low Frequency	Name	ASOS/AWOS	379 111.0 Ch 47 PTK	PONTIAC	A	
Low Frequency	Name	ASOS/AWOS					
379 111.0 Ch 47 PTK	PONTIAC	A					
<p>NON-DIRECTIONAL RADIOBEACON (NDB)</p>  <p>Underline indicates no voice on this frequency.</p> <p>NDB-DME</p> 							

RADIO AIDS TO NAVIGATION	
NAVAIDS USED TO DEFINE CLASS B AIRSPACE	<p>ILS - DME</p> <p>○ SALT LAKE CITY DME ANT (I-BNT) Ch 52 (111.5)</p>
BROADCAST STATIONS (BS)	<p>○ BS KFTM 1400</p>
FLIGHT SERVICE STATION (FSS)	<p>Heavy line box indicates Flight Service Station (FSS) Frequencies 121.5, 122.2, 243.0, and 255.4 (Canada - 121.5, 126.7, and 243.0) are normally available at all FSS's and are not shown above boxes. All other frequencies are shown. Frequencies transmit and receive except those followed by R, R - receive only</p> <p>DENVER DEN</p> <p>No NAVAID of the same name as FSS</p> <p>OR</p> <p>122.1R 123.6 NORTHWAY 116.3 Ch 110 ORT </p> <p>FSS oper 0600-2200 Rancho Murieta FSS other times.</p> <p>NAVAID same name as FSS but not an RCO</p> <p>Frequencies above thin line box are remot to NAVAID site. Other frequencies at FSS providing voice communication may be available determined by altitude and terrain. Consult Airport/Facility Directory for complete information.</p> <p>Thin line box without frequencies and controlling FSS name indicates no FSS frequencies available.</p> <p>○ 123.6 OLYMPIA RCO McCHORD</p> <p>122.35 122.35 ST PAUL GAMBELL 108.6 STP 369 GAM MINNEAPOLIS MILES CITY</p> <p>FSS providing voice communication</p>
REMOTE COMMUNICATIONS OUTLET (RCO)	

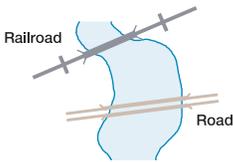
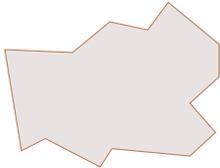
AIRSPACE INFORMATION	
<p>CLASS B AIRSPACE</p> <p><i>Appropriate notes as required may be shown. (Mode C see FAR 91.215/AIM)</i></p> <p>All mileages are nautical (NM)</p> <p>All radials are magnetic.</p>	<p>LAS VEGAS CLASS B</p> <p>NAVAID identifier and distance from facility.</p> <p>LAS 20 NM</p> <p>LAS 031°</p> <p>NAVAID identifier and radial from facility.</p> <p>CLASS B SURFACE AREA</p> <p>70 - Ceiling of Class B in hundreds of feet MSL</p> <p>SFC - Floor of Class B in hundreds of feet MSL</p> <p>CTC LAS VEGAS APP ON 121.1 OR 257.8</p>
<p>CLASS C AIRSPACE</p> <p><i>Appropriate notes as required may be shown. (Mode C see FAR 91.215/AIM)</i></p>	<p>BURBANK CLASS C</p> <p>See NOTAMS/Directory for Class C eff hrs</p> <p>CLASS C SURFACE AREA</p> <p>See NOTAMS/Directory for Class C eff hrs</p> <p>70 - Ceiling of Class C in hundreds of feet MSL</p> <p>30 - Floor of Class C in hundreds of feet MSL</p> <p>CTC BURBANK APP WITHIN 20 NM ON 124.6 395.9</p>

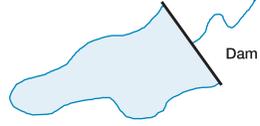
AIRSPACE INFORMATION	
CLASS D AIRSPACE	<p>See NOTAMs/Directory for Class D eff hrs</p>  <p>See NOTAMs/Directory for Class D/E (sfc) eff hrs</p>  <p>(A minus in front of the figure is used to indicate "from surface to but not including...")</p> <p>ALTITUDES IN HUNDREDS OF FEET MSL</p>
CLASS E (SFC) AIRSPACE	<p>See NOTAMs/Directory for Class E (sfc) eff hrs</p> 
CANADIAN AIRSPACE	<p>Appropriate notes as required may be shown.</p> <p>TCA Class C/D</p>  <p>80 - Ceiling of TCA Class C/D in hundreds of feet MSL 40 - Floor of TCA Class C/D in hundreds of feet MSL</p> <p>Class C or D Control Zone</p>  <p>ALTITUDE IN HUNDREDS OF FEET MSL</p> <p>Class E Control Zone</p>  <p>AIRSPACE CLASSIFICATION/OPERATIONAL REQUIREMENTS MAY DIFFER BETWEEN CANADA AND UNITED STATES (SEE DOD AREA PLANNING AP/1)</p> <p>NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION WITHIN CANADIAN AIRSPACE</p>

AIRSPACE INFORMATION									
HELICOPTER ROUTES	<p>Primary Route</p> <table border="1"> <thead> <tr> <th>Route Name</th> <th>Tower Frequency</th> <th>One-way Route</th> <th>Altitude Changeover Point</th> </tr> </thead> <tbody> <tr> <td>MARRIOT</td> <td>118.3</td> <td></td> <td></td> </tr> </tbody> </table> <p>Reporting or Holding Points</p> <p> BAHAI Name</p> <p>Non-Compulsory Compulsory</p> <p>Secondary Route</p> <p></p> <p>Transition Route</p> <p></p> <p>Police Zone</p> <p> ZONE 8 1000</p> <p>Recommended Route Altitude</p> <p><u>500</u> Maximum <u>500</u> Minimum <u>500</u> Recommended</p>	Route Name	Tower Frequency	One-way Route	Altitude Changeover Point	MARRIOT	118.3		
Route Name	Tower Frequency	One-way Route	Altitude Changeover Point						
MARRIOT	118.3								
SPECIAL USE AIRSPACE	<p>Only the airspace effective below 18,000 feet MSL is shown.</p> <p>The type of area shall be spelled out in large areas if space permits.</p>  <p>PROHIBITED, RESTRICTED, WARNING OR ALERT AREA</p>  <p>MILITARY OPERATIONS AREA (MOA)</p>								
MILITARY TRAINING ROUTES (MTR)									
SPECIAL AIR TRAFFIC RULES / AIRPORT TRAFFIC AREAS (FAR PART 93)	 <p>SPECIAL NOTICE Pilots are required to obtain an ATC clearance prior to entering this area.</p>								
MODE C (FAR 91.215)	<p>MODE C</p>  <p>30 NM</p> <p>Appropriate notes as required may be shown.</p>								

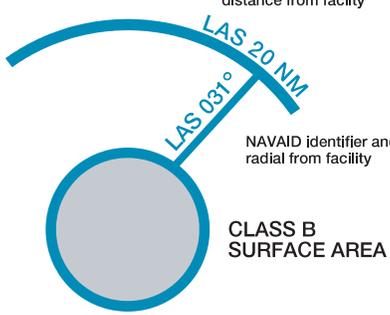
AIRSPACE INFORMATION	
MISCELLANEOUS AIRSPACE AREAS	
Parachute Jumping Area with Frequency	122.9
Glider Operating Area	
Ultralight Activity	
Hang Glider Activity	
SPECIAL CONSERVATION AREAS	
National Park, Wildlife Refuge, Primitive and Wilderness Areas, etc.	
TERMINAL RADAR SERVICE AREA (TRSA)	
<i>Appropriate notes as required may be shown.</i>	<p>PALM SPRINGS TRSA</p> <p>SEE TWR FREQ TAB</p> <p>80 - Ceiling of TRSA in hundreds of feet MSL 40 - Floor of TRSA in hundreds of feet MSL</p>
NAVIGATIONAL AND PROCEDURAL INFORMATION	
VFR CHECK POINTS	
	STATE CAPITOL STACKS
VFR WAYPOINTS	
Stand-Alone	VPXYZ
Colocated with VFR Check Point	NAME (VPXYZ)

NAVIGATIONAL AND PROCEDURAL INFORMATION	
OBSTRUCTIONS	<p>bdg 1000' and higher AGL</p> <p>300' and higher AGL</p> <p>Group Obstruction</p> <p>Obstruction with hi-intensity lights.</p> <p>2049 (1149) UC Elevation of the top above mean sea level Height above ground Under Construction or reported and position / elevation unverified</p>
MAXIMUM ELEVATION FIGURE (MEF)	124
NAVIGATION DATA	<p>N38°56.32' W76°36.91'</p> <p>POWER PLANT N32°27.12' W70°15.73'</p> <p>ATL 25 NM</p> <p>ATL 033/25 NM N33°59.18' W84°10.62'</p> <p>ATL 033°</p>
WARNING, CAUTION NOTES	<p>WARNING Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.</p> <p>CAUTION: Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.</p>

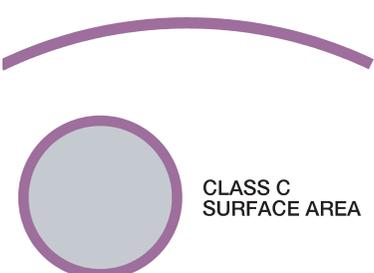
CULTURE	
RAILROADS Single Track Double Track	 
ROADS Dual Lane Primary	   
BRIDGES	
POPULATED PLACES Built-up Areas	
BOUNDARIES International State and Provincial	 
POWER TRANSMISSION LINES	
PROMINENT PICTORIALS	 <p>TEMPLE</p>
LANDMARKS	 Mines and Quarries  Race Track  Outdoor Theater  Tank-water, oil or gas

HYDROGRAPHY	
SHORELINES	
MAJOR LAKES AND RIVERS	
RESERVOIRS	
RELIEF	
SPOT ELEVATIONS Position Accurate	

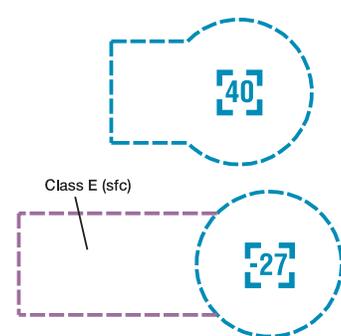
AIRPORTS	
<p>LANDPLANE</p> <p><i>No distinction is made between airports with services and those without services. Runways may be exaggerated to clearly portray the pattern. Hard-surfaced runways which are closed but still exist are included in the charted pattern.</i></p> <p><i>FAR 91 - Fixed wing special VFR operations prohibited.</i></p>	<p>Rotating Beacon in operation Sunset to Sunrise</p>  <p>NO SVFR RIVERSIDE (RAL)</p> <p>Paved Runways</p>  <p>AGUA DOLCE (L7Ø)</p> <p>Unpaved Runways</p>  <p>(Pvt) COMPTON</p>

AIRSPACE INFORMATION	
<p>CLASS B AIRSPACE</p> <p><i>Appropriate notes as required may be shown.</i></p> <p><i>(Mode C see FAR 91.215 /AIM)</i></p> <p><i>All mileages are nautical (NM).</i></p> <p><i>All radials are magnetic.</i></p>	<p>LAS VEGAS CLASS B</p>  <p>80 - Ceiling of Class B in hundreds of feet MSL</p> <p>40 - Floor of Class B in hundreds of feet MSL</p>

RADIO AIDS TO NAVIGATION	
<p>VHF OMNI-DIRECTIONAL RADIO RANGE (VOR)</p> <p>VOR</p>	<p>Identification Frequency</p>  <p>MAL 109.6</p>
<p>VORTAC</p>	 <p>GCY 113.4</p>
<p>VOR-DME</p>	 <p>FHM 114.2</p> <p>Underline indicates no voice on this frequency</p>

<p>CLASS C AIRSPACE</p> <p><i>Appropriate notes as required may be shown.</i></p> <p><i>(Mode C see FAR 91.215/AIM)</i></p>	<p>EL TORO CLASS C</p>  <p>48 - Ceiling of Class C in hundreds of feet MSL</p> <p>30 - Floor of Class C in hundreds of feet MSL</p>
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<p>NON-DIRECTIONAL RADIOBEACON (NDB)</p>	 <p>WDP 396</p> <p>Underline indicates no voice on this frequency</p>
<p>NDB-DME</p>	 <p>LSJ 206</p>

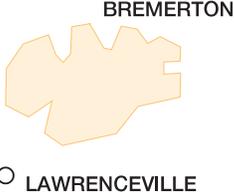
<p>CLASS D AIRSPACE</p>	 <p>(A minus in front of the figure is used to indicate *from surface to but not including...*)</p> <p>ALTITUDE IN HUNDREDS OF FEET MSL</p>
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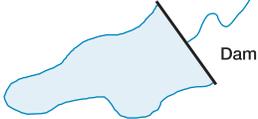
<p>NAVAIDS USED TO DEFINE CLASS B AIRSPACE</p>	 <p>SALT LAKE CITY DME ANTENNA (I-BNT) Ch 52 (111.5)</p>
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<p>CLASS E (SFC) AIRSPACE</p>	
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AIRSPACE INFORMATION	
VFR FLYWAYS	<p>Direction: 195° (left), 015° (right) Mileage: 35 Altitude: 2600 (left), 6700 (right) Radial/Bearing from or to NAVAID Altitude Change</p>
IFR ROUTES	<p>Appropriate notes as required may be shown.</p> <p>Arrival: 10,000 - 5000</p> <p>Departure: 4000 - 8000</p>
SPECIAL USE AIRSPACE	<p>Only the airspace effective below 18,000 feet MSL is shown.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> P-56 OR R-6401 W-518 OR A-631 </div> <p>PROHIBITED, RESTRICTED ALERT OR WARNING AREA</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> FALCON 1 MOA </div> <p>MILITARY OPERATIONS AREA (MOA)</p>
MILITARY TRAINING ROUTES (MTR)	<p>← IR21 →</p>
SPECIAL AIR TRAFFIC RULES / AIRPORT TRAFFIC AREAS (FAR Part 93)	<p>Appropriate boxed note as required shown adjacent to area.</p>
MODE C (FAR 91.215)	<p>MODE C 30 NM</p>
AIR DEFENSE IDENTIFICATION ZONE (ADIZ)	<p>CANADA ADIZ</p>
TERMINAL RADAR SERVICE AREA (TRSA)	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> PALM SPRINGS TRSA </div> <p>100 - Ceiling of TRSA in hundreds of feet MSL 90 - Floor of TRSA in hundreds of feet MSL</p>

AIRSPACE INFORMATION	
MISCELLANEOUS AIRSPACE AREAS	<p>Parachute Jumping Area</p> <p>Glider Operating Area</p> <p>Ultralight Activity</p> <p>Hang Glider Activity</p>
NAVIGATION AND PROCEDURAL INFORMATION	
VFR CHECK POINTS	<p>LA PORTE</p> <p>STADIUM</p>
VFR WAYPOINTS	<p>Stand-Alone: VPXYZ</p> <p>Colocated with VFR Check Point: NAME (VPXYZ)</p>
OBSTRUCTIONS	<p>Only those obstacles specified by the FAA shall be shown.</p> <p>Above Ground Level (AGL) heights are not shown.</p>
NAVIGATIONAL DATA	<p>N38°56.32' W76°36.91'</p> <p>POWER PLANT N32°27.12' W70°15.73'</p> <p>ATL 25 NM</p> <p>ATL 033/25 NM N33°59.18' W84°10.62'</p>

CULTURE	
RAILROADS Single and Multiple Tracks	
ROADS Dual Lane Primary	
POPULATED PLACES Built-up Areas Towns	
BOUNDARIES International	
POWER TRANSMISSION LINES	
PROMINENT PICTORIALS	
LANDMARKS	

HYDROGRAPHY	
SHORELINES	
MAJOR LAKES AND RIVERS	
RESERVOIRS	
RELIEF	
Spot Elevations Position Accurate Mountain Peaks	