

**CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE AIRPORT****CABAA Visual- Fort Sheridan Transition RWY 16**

After take-off start assigned turn from Chicago Executive ATCT within 1 NM from the departure end of RWY 16 and remain outside Chicago Class B Airspace. Proceed to Fort Sheridan-VFR waypoint **VPFTS**. When instructed, contact Departure to activate your IFR clearance. Maintain VFR until advised by Departure of activation of IFR clearance.

Climb and maintain VFR at or below 2000' or as assigned.

**CABAA Visual- Bangs Lake Transition RWY 16**

After take-off start assigned turn from Chicago Executive ATCT within 1 NM from the departure end of RWY 16 and remain outside Chicago Class B Airspace. Proceed to Bangs Lake Wauconda-VFR waypoint **VPBNG**. When instructed, contact Departure to activate your IFR clearance. Maintain VFR until advised by Departure of activation of IFR clearance.

Climb and maintain VFR at or below 2400' or as assigned.

**ALL AIRCRAFT REQUESTING THE “CABAA VISUAL DEPARTURE” MUST  
REMAIN CLEAR OF THE CLASS B AIRSPACE AT ALL TIMES.**

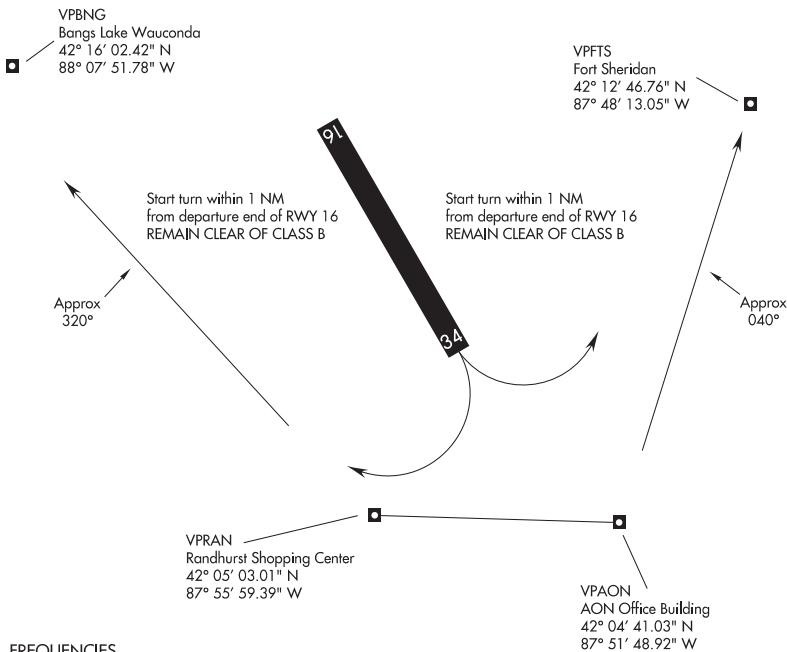
**TERMINAL AREA GRAPHIC NOTICE**  
Not to be used for Navigation/Not to Scale

**CABAA VISUAL DEPARTURE  
CHICAGO EXECUTIVE (PWK)**

**PILOTS MUST SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME**

**ALL AIRCRAFT**

**REQUESTING THE "CABAA VISUAL DEPARTURE" MUST MAINTAIN VFR  
AND REMAIN CLEAR OF THE "CHICAGO CLASS B AIRSPACE" AT ALL TIMES**



**FREQUENCIES**

ATIS 124.2  
EXECUTIVE TOWER 119.9  
GND CON 121.7  
CLNC DEL 124.7  
CHICAGO DEPARTURE 120.55



**CABAA VISUAL to FORT SHERIDAN Transition Rwy 16**

After take-off proceed VFR to Fort Sheridan - VFR waypoint VPFTS. Maintain at or below 2000' or as assigned. Expect a climb clearance in vicinity of Fort Sheridan. ATC will advise activation of IFR Clearance.

**CABAA VISUAL to BANGS LAKE Transition Rwy 16**

After take-off proceed VFR to Bangs Lake Wauconda - VFR waypoint VPBNG. Maintain at or below 2400' or as assigned. Expect a climb clearance in vicinity of Bangs Lake. ATC will advise activation of IFR Clearance.

**AEROBATIC PRACTICE AREAS IN ILLINOIS****Holmes Airstrip (3IS5), Springfield, IL**

Aerobatic flight activity will be conducted within an area defined as a 1.5 NM radius around N 39°40'48.6"W 089°36'26.8", 1800-6600' MSL, 1300-0000Z‡ (0800-1900 local CDT).

**Litchfield Municipal Airport (3LF), Litchfield, IL**

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200 feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area.

**Blythe Field (LL27), Macomb, IL**

Aerobatic practice will be conducted within 2 NM radius of Blythe Field (LL27), SFC to 4,100 feet MSL, SR-SS.

**Springfield IL, Abraham Lincoln Capital Airport (SPI)**

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600 feet MSL, SR-SS.

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**AEROBATIC PRACTICE AREA****Norris Field (8II2), Richmond, IN**

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) DME 193R/6 DME. Flights will occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information, Contact Dayton APP CON at 1-937-454-7310 or freq. 134.45.

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**AEROBATIC PRACTICE AREA****Battle Creek Executive at Kellogg Field (BTL), Battle Creek, MI**

Aerobatic practice will be conducted within 5 NM quadrant South of W.K. Kellogg Airport (KBTL) arcing to the West/North West of BTL Airport from 3,500' MSL to 7,000' MSL.

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**LASER LIGHT RESEARCH****Urbana, IL**

Laser light research will be conducted at the University of Illinois, Urbana campus at Urbana, IL, N40°10'03" W088°09'33". CMI VORTAC 036R/9NM. Nightly from local sunset to sunrise. Laser beam will be angled directly perpendicular to the horizon and projected up to 42,000 feet. Laser light may be injurious to eyes if viewed directly vertically. Flash blindness or cockpit illumination may occur beyond this distance.

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**COMMUNICATIONS ADVISORIES****Indianapolis ARTCC****NABB INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

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**CHICAGO, ILLINOIS****CHICAGO O'HARE DME**

DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during non-use or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

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**NOISE ABATEMENT PROCEDURES****Covington, KY, Cincinnati/Northern Kentucky Intl Airport (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**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

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**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.

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**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 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.

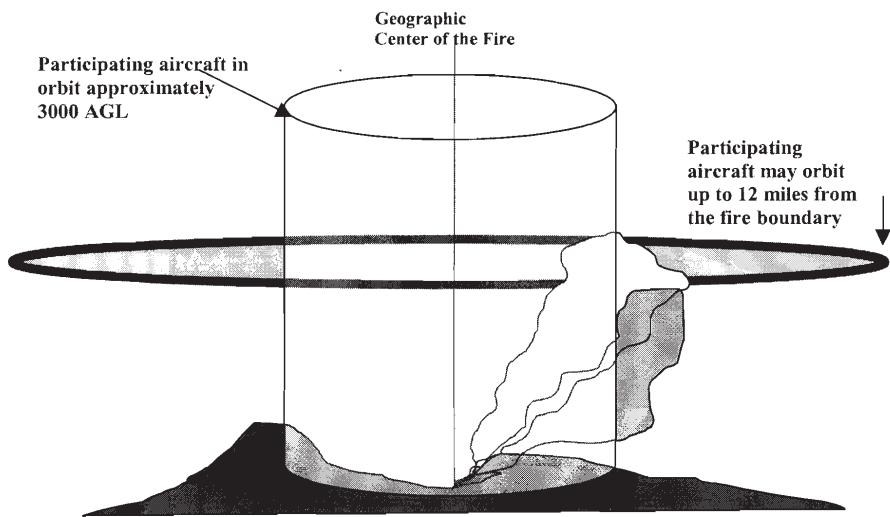
When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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**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 and 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.

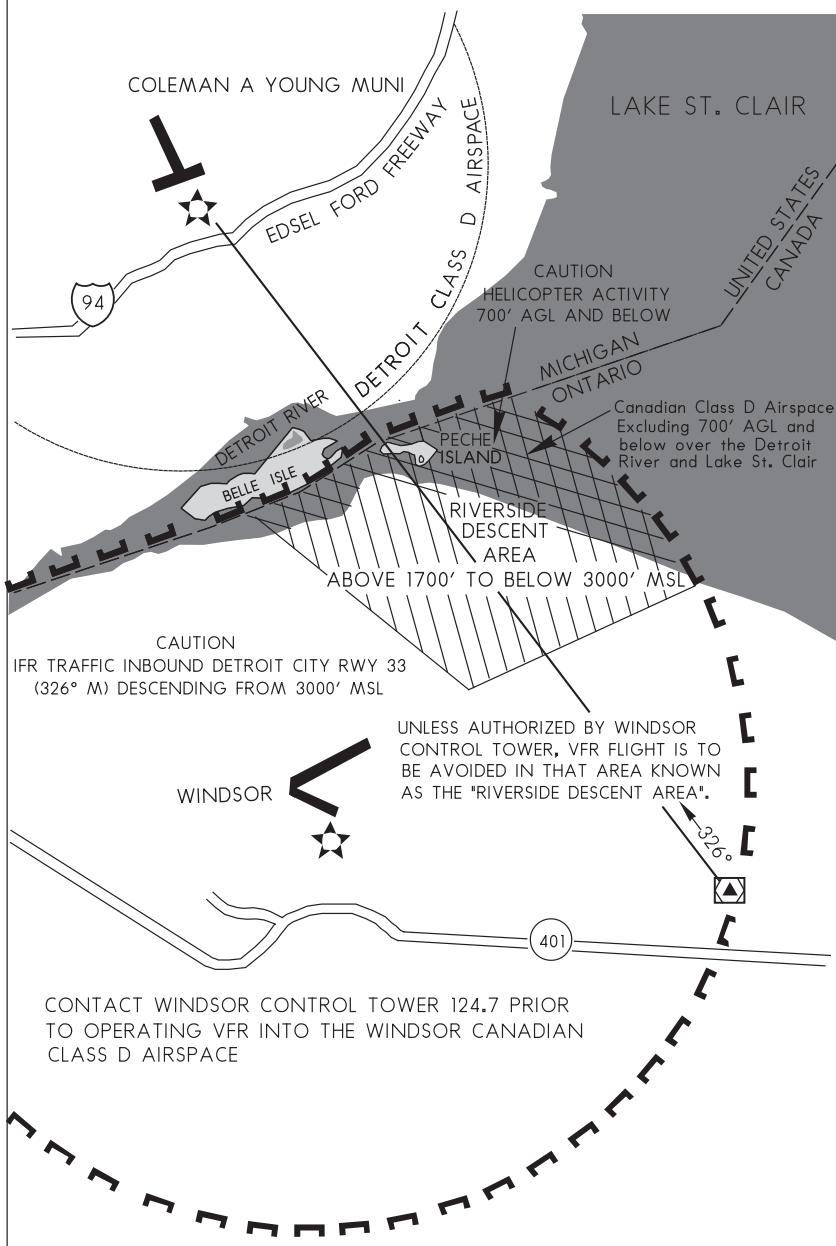
**FIREFIGHTING TRAFFIC AREAS**

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.

RIVERSIDE DESCENT AREA  
WINDSOR, ONTARIO



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, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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### **LORAIN (ELYRIA), OHIO**

#### **LORAIN COUNTY AIRPORT TRAFFIC RULE**

Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

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### **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.

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## FSS TELEPHONE NUMBERS

**Flight Service Station (FSS)** facilities process flight plans and provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a contract provider at two large facilities. In Alaska, FSS services are delivered through a network of three hub facilities and 14 satellite facilities, some of which operate part-time and some are seasonal. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

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)

Medevac Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)

### FLIGHT RESTRICTED ZONE FLIGHTS

Pilots wishing to fly within the Flight Restricted Zone (FRZ) must call the Washington ARTCC Flight Data Unit at 703-771-3476.

# FAA TELEPHONE NUMBERS AND NWS KEY AIR TRAFFIC FACILITIES

## Air Traffic Control System Command Center

Main Number..... 540-422-4100

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### AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

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ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #	**CLEARANCE DELIVERY TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300	505-856-4561
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	770-210-7692
Boston	404-305-5156	7:30 a.m.-4:00 p.m.	603-879-6633	603-879-6859
Chicago	817-222-5006	8:00 a.m.-4:00 p.m.	630-906-8221	630-906-8921
Cleveland	817-222-5006	8:00 a.m.-4:00 p.m.	440-774-0310	440-774-0490
Denver	206-231-2099	7:30 a.m.-4:00 p.m.	303-342-1600	303-651-4257
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7500	817-858-7584
Honolulu	310-725-3300	7:30 a.m.-4:00 p.m.	808-840-6100	808-840-6201
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300	281-230-5622
Indianapolis	817-222-5006	8:00 a.m.-4:00 p.m.	317-247-2231	317-247-2411
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501	904-845-1592
Kansas City	817-222-5006	7:30 a.m.-4:00 p.m.	913-254-8500	913-254-8508
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200	661-575-2079
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103	901-368-8453
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500	305-716-1731
Minneapolis	817-222-5006	8:00 a.m.-4:00 p.m.	651-463-5580	651-463-5588
New York	718-995-5426	8:00 a.m.-4:40 p.m.	631-468-1001	631-468-1425
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331	
Salt Lake City	206-231-2099	7:30 a.m.-4:00 p.m.	801-320-2500	801-320-2568
San Juan	404-305-5180	7:30 a.m.-5:00 p.m.	787-253-8663	787-253-8664
Seattle	206-231-2099	7:30 a.m.-4:00 p.m.	253-351-3500	253-351-3694
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401	703-771-3587

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

\*\*For use when numbers or frequencies are not listed in the airport listing

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### MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONs)

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TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	678-364-6131	7:00 a.m.-3:30 p.m.	678-364-6000
Chicago	817-222-5006	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.

**FAA TELEPHONE NUMBERS AND NWS  
KEY AIR TRAFFIC FACILITIES**

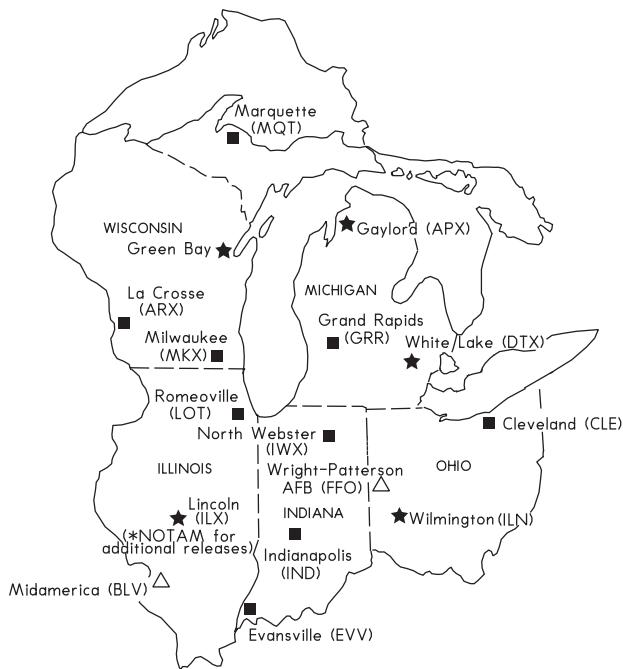
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**DAILY NAS REPORTABLE AIRPORTS**

<b>AIRPORT NAME</b>	<b>*24 HR RGNL DUTY OFFICE TELEPHONE #</b>	<b>BUSINESS HOURS</b>	<b>BUSINESS TELEPHONE #</b>
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	404-305-5156	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	404-305-5156	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	817-222-5006	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	817-222-5006	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	817-222-5006	8:00 a.m.-4:00 p.m.	216-352-2000
Covington/Cincinnati, OH	817-222-5006	8:00 a.m.-4:30 p.m.	859-372-6440
Dallas-Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	817-222-5006	7:30 a.m.-4:00 p.m.	937-415-6800
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	817-222-5006	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	678-364-6131	7:00 a.m.-3:30 p.m.	404-559-5800
Honolulu (Daniel K Inouye Intl), HI	310-725-3300	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	817-222-5006	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	817-222-5006	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	817-222-5006	8:00 a.m.-4:00 p.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	7:30 a.m.-4:00 p.m.	973-565-5000
Norman Y. Mineta San Jose Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-725-3300	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	310-725-3300	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.	919-380-3125
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-0330
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	310-725-3300	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.	787-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	817-222-5006	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.	571-323-6375
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.

NATIONAL WEATHER SERVICE (NWS)  
 UPPER AIR OBSERVING STATION (UAOS)  
 AND  
 WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION  
HYDROGEN FILLED BALLOON RELEASES AROUND  
1100 UTC AND 2300 UTC DAILY/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 RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND  
FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED  
HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM\*  
WILL BE FILED.

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.

⑧ <b>CHICAGO CENTER</b> – 121.5 <b>121.5</b> 243.0 <b>243.0</b>	H-2-5-10, L-12-27-28, A-2(KZAU)
Bradford – <b>132.225</b> <b>125.625</b> 124.55 121.5 <b>121.5</b> <b>323.225</b> 307.125 <b>281.525</b> 243.0 <b>243.0</b>	
Burlington – 135.6 121.5 <b>121.5</b> 370.95	
Camp Douglas – 125.05 269.375	
Cedar Rapids – 132.8 328.4	
Chicago Heights – 132.95 318.8	
Crown Point – 134.875 290.25	
Danville – 135.75 353.95	
Des Moines – 127.05 282.35	
Des Plaines – 133.625 128.65 120.35 363.125 317.4	
Downers Grove – <b>279.525</b>	
Dubuque – 133.95 <b>127.775</b> <b>125.225</b> <b>327.15</b> 281.4 <b>263.1</b>	
Fort Wayne – <b>126.325</b> 119.85 <b>323.05</b> 307.375	
Freeport – <b>243.0</b> <b>243.0</b>	
Goshen – 135.9 127.55 314.0 307.175 243.0 <b>243.0</b>	
Grand Rapids – 128.4 <b>126.125</b> <b>319.1</b>	
Hampshire – 134.2 291.75	
Horicon – 135.55 <b>126.875</b> 306.975 <b>269.075</b> 243.0 <b>243.0</b>	
Joliet – 135.15 323.3	
Jones – <b>127.625</b> <b>126.475</b> <b>125.975</b> <b>120.225</b> <b>353.625</b> <b>273.6</b> <b>269.35</b>	
Kankakee – 132.5 121.5 <b>121.5</b> 120.125 <b>118.225</b> <b>353.55</b> 284.7 256.8	
Lafayette – 123.85 121.5 <b>121.5</b>	
Leroy – 119.225 307.25	
Lone Rock – 133.3 257.925	
Maple Park – 134.825 307.275	
Marengo – 133.35 335.8	
Mazon – 123.75 259.1	
Milford – <b>121.275</b> <b>351.95</b> <b>243.0</b>	
Milwaukee – 125.1 123.825 290.475 <b>279.525</b>	
Moline – 118.75 377.05	
Muskegon – <b>132.275</b> <b>254.35</b>	
Oshkosh – 132.1 319.25	
Ottumwa – 118.15 335.575	
Pontiac – 119.95 353.7	
Pullman – 133.2 128.5 343.675 273.525 <b>273.525</b>	
Rockford – <b>124.725</b>	
Rossville – <b>125.375</b> 120.975 370.85 350.35 <b>350.35</b> <b>341.7</b>	
South Bend – <b>121.5</b> <b>121.5</b>	
Washington – <b>134.325</b> <b>128.525</b> <b>125.575</b> <b>319.2</b> <b>257.725</b> 243.0 243.0	
Waukegan – 126.425 348.725	

⑧ CLEVELAND CENTER – 121.5 121.5 243.0 243.0	H-2-5-10-11-12, L-27-28-29-30-31-32 (KZOB)
Algonac – 134.775 132.25 126.525 379.95 298.875 285.525 269.2 244.575	
Altoona – 133.075 128.45 124.4 121.5 121.5 121.2 327.1 307.1 299.2 276.4 243.0 243.0	
Belmont – 135.175 126.95 125.425 307.075 291.6 239.3	
Bradford – 124.325 121.5 121.5 353.85 243.0 243.0	
Carleton – 135.375 251.125 243.0 243.0	
Chardon – 120.775 298.95	
Dubois – 126.725 121.5 121.5 291.65 243.0 243.0	
Dunkirk – 125.2 256.8	
Findlay – 135.1 127.675 121.5 121.5 291.725 281.475 243.0 243.0	
Flint – 126.75 348.75	
Freeland – 133.875 127.7 369.9 290.425 269.525 243.0 243.0	
Geneseo – 128.025 323.25	
Holland – 120.625 118.625 316.05 306.9	
Indianhead – 132.125 363.075	
Litchfield – 135.725 134.65 133.525 120.45 360.7 285.625 281.425 263.025	
Mansfield – 134.9 133.375 369.9 317.7 290.275 269.475 243.0 243.0	
Moon Township – 134.475 121.075 385.5 369.25 317.45 307.325 254.275	
Morgantown – 121.5 121.5 243.0 243.0	
Mount Hope – 120.6 379.275 243.0 243.0	
Sandusky – 132.45 127.9 119.875 119.325 371.95 348.675 284.625 269.625	
Warren – 134.125 132.925 125.875 119.725 351.85 338.35 316.1 307.15	
Waterford – 127.075 292.175	
Waterville – 128.625 379.2	
Wayland – 127.475 124.325 119.375 369.9 353.85 346.35 243.0 243.0 235.975	

⑧ INDIANAPOLIS CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA) H-5-9-10-12, L-16-25-26-27-29	
Athens – 135.425 125.075 379.975 353.525	(KZID)
Bible Grove – 257.95	
Bluefield – 126.575 121.5 121.5 257.85 243.0 243.0	
Brookville – 120.575 317.625	
Catawba – 128.775 123.925 120.475 353.75 346.3 256.7	
Charleston – 135.125 134.225 119.525 379.175 322.375 307.3	
Columbus – 316.125	
Evansville – 132.525 128.3 377.125 291.625	
Henryville – 134.275 133.05 128.375 124.775 353.825 317.525 293.225 269.025	
Hillsboro – 121.5 121.5	
Huntingburg – 127.025 322.425	
Indianapolis – 133.425 132.775 125.125 124.525 119.55 379.225 370.925 360.775 350.225 299.6 273.475	
Livingston – 134.675 126.925 348.625 319.15	
London – 243.0	
London 2 – 124.625 121.5 121.5 371.925 243.0 243.0	
Lynch – 126.575 257.85	
Merwyn – 135.575 134.7 120.875 307.225 290.5 284.725	
New Hope – 124.625 121.175 371.925 353.65	
Parkersburg – 125.55 121.5 317.475 243.0 243.0	
Portsmouth – 135.575 124.225 120.275 363.175 360.725 290.5	
Rosewood – 135.8 128.075 288.3 282.375	
Terre Haute – 134.175 132.2 317.425 310.8	
Whitetop Mountain – 124.575 290.55	
Winchester – 128.225 126.375 123.775 343.65 317.75 263.05	
Zanesville – 133.775 132.825 124.45 121.5 121.5 363.025 360.675 323.275 243.0 243.0	
<b>CENTER REMARKS:</b> CPDLC (LOGON KUSA)	

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⑧ KANSAS CITY CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA)

H-5-6, L-10-15-16-27, A-2

(KZKC)

Anthony – 133.2 121.5 121.5 118.35 292.125 285.625

Butler – 125.55 327.0

Chanute – 132.9 121.5 121.5 279.5

Chillicothe – 125.25 235.975

Clinton – 121.5 121.5

Columbia – 134.5 121.5 121.5 119.475 316.1 279.6 243.0 243.0

Decatur – 124.3 269.15

Edna – 128.6 282.325

Effingham – 135.05 124.3 290.4 269.15

Emporia – 132.25 127.725 120.2 323.2 281.425 270.25

Farmington – 132.65 127.475 120.825 346.275 319.0 307.8

Gage – 132.825 126.95 121.5 121.5 379.2 243.0 243.0

Garden City – 133.45 125.2 285.425 281.4 243.0 243.0

Hutchinson – 134.3 118.8 353.9 322.425 273.6

Independence – 121.65

Jacksonville – 127.275 307.1

Kansas City – 133.8 360.85

Kirksville – 134.625 132.6 370.9 269.3

Knob Noster – 135.575 323.15

Lawrence – 121.825

Liberal – 134.675 134.0 121.5 121.5 257.625 235.775

Manhattan – 127.35 121.5 121.5 257.975

Maples – 128.35 284.675

Marion – 127.475 346.275

Mount Vernon – 127.7 351.825

Oklahoma City – 127.8 319.1

Olathe – 121.5 121.5 243.0 243.0

Ponca City – 127.8 121.5 121.5 319.1 243.0 243.0

Quincy – 126.225 121.5 121.5 317.775

Richland – 128.35 124.1 353.925 284.675

Russell – 124.4 121.5 121.5 322.4

Saint Charles – 125.9 327.1

Saint Joseph – 127.9 251.1

Saint Louis – 133.15 128.35 121.5 121.5 355.6 284.675 243.0 243.0

Salina – 134.9 125.175 121.5 121.5 363.2 269.625

Springfield – 133.475 127.5 277.4 269.4

Springfield, IL – 126.15

Topeka – 123.8 343.7

Tulsa – 128.8 127.625 354.1 285.525

Vichy – 121.5 121.5

CENTER REMARKS: CPDLC (LOGON KUSA)

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®MINNEAPOLIS CENTER – 121.5 121.5 243.0 243.0 CPDLC (LOGON KUSA)

H-2-5-10-11,

L-10-12-13-14-27-28-31, A-1

Aberdeen – 121.5 **121.5** 120.6 371.9 243.0 **243.0** (KZMP)  
 Alexandria – 133.4 126.1 121.5 **121.5** **281.55** 269.2 243.0 **243.0**  
 Alpena – 127.**125** 125.475 121.5 **121.5** **323.075** 269.45  
 Bellevue – 243.0 **243.0**  
 Bemidji – 134.75 121.5 **121.5** 251.1  
 Bismarck – 121.5 **121.5**  
 Brainerd – 121.5 **121.5** 118.05 239.0  
 Columbus – 121.5 **121.5** 243.0 **243.0**  
 Darwin – 125.5 323.1  
 Des Moines – **135.775** 125.65 **118.825** **372.0** 306.95 **257.875**  
 Dickinson – 124.25 121.5 **121.5** 243.0 **243.0** 236.825  
 Duluth – 134.55 **134.55** 127.9 290.5 **290.5** 281.45  
 Dupree – 135.25 256.7  
 Eau Claire – 134.3 **133.75** **127.425** 125.3 **350.2** 335.6 **292.2** 285.5 243.0 **243.0**  
 Escanaba – 127.65  
 Fairmont – **128.675** 127.75 **285.575** 257.7  
 Fargo – **127.35** 278.3 **278.3**  
 Farmington – 121.5 **121.5** 243.0 **243.0**  
 Fort Dodge – 134.0 121.5 **121.5** 288.3 243.0 **243.0**  
 Freeland – 125.825 317.45  
 Grand Forks – **132.15** 121.5 **121.5** **269.6**  
 Grand Island – 126.05 121.5 **121.5**  
 Green Bay – 125.55 121.5 **121.5** 370.9 243.0 **243.0**  
 Gwinn – 121.5 **121.5** 119.1 290.2 243.0 **243.0**  
 Hancock – 133.55 121.5 **121.5** 379.1 **273.5** 243.0 **243.0**  
 Hastings – **135.1** 119.4 **307.2** 278.8 **243.0**  
 Hayward – 126.45 121.5 **121.5** 276.4  
 Hibbing – 121.5 **121.5** 243.0 **243.0**  
 Huron – **126.25** 121.5 **121.5** **339.8** 243.0 **243.0**  
 International Falls – 120.9 **377.1**  
 Iron Mountain – **133.45** 121.25 322.5  
 Ironwood – 133.55  
 Jamestown – 121.5 **121.5**  
 La Crosse – 128.6 121.5 **121.5** **118.85** 363.0  
 Lamoni – 121.5 **121.5**  
 Lincoln – 121.5 **121.5** **119.525** **269.175**  
 Mankato – 135.0 306.9  
 Marysville – **134.225** 126.4 317.7 **282.3**  
 Mason City – **134.25** 127.3 121.5 **121.5** **323.025** 257.675  
 Minot – 127.6 **127.6** 121.5 **121.5** 279.6 **279.6**  
 Mosinee – 124.4 121.5 **121.5** 317.7 243.0 **243.0**  
 O'Neill – 128.0 **124.875** **353.75** 257.95  
 Omaha – 128.75 **123.975** 119.6 346.3 290.4 **284.625**  
 Oscoda – 125.475 269.45  
 Pellston – 134.6 **132.425** 121.5 **121.5** 354.05 **336.4** 243.0 **243.0**  
 Pierre – **128.425** 125.1 **120.05** **290.35** 284.65 269.1 243.0 **243.0**  
 Princeton – 121.5 **121.5** 121.05 235.775  
 Redwood Falls – **133.075** 127.1 121.5 **121.5** **119.875** 290.2 **269.25** 263.05  
 Rhinelander – 133.65 **123.725** 121.5 **121.5** **316.15** 281.5  
 Rochester – 132.35 307.3  
 Roseau – 134.75 251.1  
 Sioux City – 125.025 **119.725** **363.1** 235.625  
 Sioux Falls – 132.05 317.4  
 Swinns Valley – **135.7** 134.85 352.0 **307.9**  
 Traverse City – 132.9 **125.825** 121.5 **121.5** 338.3 **317.45** 243.0 **243.0**  
 Watertown – 128.5 306.2  
 White Cloud – **132.425** 120.85 **336.4** 322.35  
 Woodworth – 135.25 **124.2** **270.3** 256.7 243.0 **243.0**

CENTER REMARKS: CPDLC (LOGON KUSA)

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VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. '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.

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**CLEVELAND RADIO**

CLEVELAND RCO 122.3  
DRYER VOR/DME 113.6T 122.1R  
FINDLAY RCO 122.4  
MANSFIELD RCO 122.6  
YOUNGSTOWN VORTAC 122.2  
ZANESVILLE RCO 122.5

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**DAYTON RADIO**

APPLETON VORTAC 116.7T 122.1R  
ATHENS/ALBANY RCO 122.6  
COLUMBUS RCO 122.2  
DAYTON VOR/DME 114.5T 122.1R  
GALLIPOLIS RCO 122.5  
HILLSBORO RCO 122.2

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**GREEN BAY RADIO**

ASHLAND RCO 122.4  
BLACK RIVER FALLS RCO 122.5  
CHIPPEWA RCO 122.6  
DELLS VORTAC 117.0T 122.1R  
EAU CLAIRE RCO 122.2  
ESCANABA RCO 122.3  
FOND DU LAC RCO 122.5  
GREEN BAY RCO 122.2  
HOUGHTON RCO 122.2  
IRONWOOD VOR/DME 122.3  
LA CROSSE RCO 122.6  
LONE ROCK DME 122.3  
MADISON VORTAC 122.6  
MARSHFIELD RCO 122.5  
MILWAUKEE RCO 122.6 (RCO UNUSABLE BYD 30 NM BLO 3000'.)  
NEWBERRY RCO 122.4  
OSHKOSH VORTAC 116.75T 122.1R 122.3  
PHILLIPS RCO 122.2  
RED WING RCO 122.6  
RHINELANDER VOR/DME 115.05T 122.1R  
RICE LAKE RCO 122.3  
SAULT STE MARIE VOR/DME 112.2T 122.1R  
SAWYER VOR/DME 122.5  
SCHOOLCRAFT COUNTY RCO 122.5  
ST IGNACE RCO 122.35  
WAUSAU RCO 122.4  
WISCONSIN RAPIDS RCO 122.45  
WOODRUFF RCO 122.6

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**KANKAKEE RADIO**

BRADFORD RCO 122.4  
DUPAGE RCO 122.3  
JOLIET VOR/DME 112.3T 122.1R  
KANKAKEE DME 122.2  
MACOMB RCO 122.2  
MOLINE RCO 122.6  
PEORIA RCO 122.5  
ROCKFORD RCO 122.65

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**LANSING RADIO**

ALPENA VORTAC 108.8T 122.1R  
BAD AXE RCO 122.2  
BATTLE CREEK RCO 122.2  
BERRIEN SPRINGS RCO 122.4  
CARLETON VOR/DME 115.7T 122.1R  
DETROIT RCO 122.2  
FLINT VORTAC 122.3  
FREELAND RCO 122.4  
GAYLORD RCO 122.4  
GRAND RAPIDS RCO 122.3  
JACKSON RCO 122.2  
LANSING RCO 122.2  
LUDINGTON RCO 122.3  
MOUNT PLEASANT RCO 122.6  
MUSKEGON RCO 122.5  
PELLSTON RCO 122.2  
SALEM VORTAC 122.4  
TRVERSE CITY RCO 122.2  
WEST BRANCH RCO 122.3

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**SAINT LOUIS RADIO**

ADDERS VORTAC 117.2T 122.1R  
BIBLE GROVE VORTAC 109.0T 122.05R  
CAPE GIRARDEAU DME 122.4  
CENTRALIA VORTAC 115.0T 122.1R  
CHAMPAIGN VORTAC 110.0T 122.1R  
CHAMPAIGN/URBANA RCO 122.4  
DECATUR RCO 122.3  
FARMINGTON VORTAC 115.7T 122.1R 122.3  
MALDEN RCO 122.6  
MATTOON RCO 122.2  
QUINCY RCO 122.5  
SPINNER VORTAC 122.25  
SPIRIT OF ST LOUIS RCO 122.2  
ST LOUIS RCO 122.6

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**TERRE HAUTE RADIO**

BRICKYARD VORTAC 122.4  
CROWNPOINT RCO 122.3  
FORT WAYNE RCO 122.5  
KNOX DME 122.6  
LAFAYETTE RCO 122.2  
OSGOOD RCO 122.3  
SHELBYVILLE VOR/DME 116.15T 122.1R  
TERRE HAUTE RCO 122.2  
WASHINGTON RCO 122.2

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## VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES

419

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.

### ILLINOIS 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
<b>Champaign</b> (University of Illinois–Willard)	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
<b>Spinner</b> (Abraham Lincoln Capital)	112.7/SPI	G	008	0.6	F ramp between Twy F and Twy E.

### INDIANA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Grissom</b> (Grissom ARB)	108.45/GUS	G	036	1.1	Twy to Rwy 23
	108.45/GUS	G	239	0.9	Twy to Rwy 05.
<b>Hoosier</b> (Monroe County)	110.2/OOM	G	349	0.9	On runup pad Rwy 17.
<b>Marion</b> (Marion Muni)	108.6/MZZ	G	206	0.6	Twy A6 run up pad btn Rwy 04 & 22 and Twy A.
<b>Muncie</b> (Delaware Co Rgnl)	114.4/MIE	G	331	0.6	Twy A4 near AER 14.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Indianapolis</b> (Indianapolis Intl)	109.6	G	

### MICHIGAN VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Alpena</b> (Alpena Co Rgnl)	108.8/APN	G	203	1.1	On runup for Rwy 01.
<b>Flint</b> (Bishop Intl)	116.9/FNT	G	170	0.9	Twy A S of Twy E.
<b>Gaylord</b> (Gaylord Rgnl)	109.2/GLR	G	077	0.6	SE corner of ramp.
<b>Pellston</b> (Pellston Rgnl Arpt of Emmet Co)	111.8/PLN	G	241	6.4	At int of Twy A & B.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Detroit</b> (Coleman A Young Muni)	111.6	G	
<b>Detroit</b> (Detroit Metropolitan Wayne Co.)	109.8	G	
<b>Detroit</b> (Willow Run)	108.85	G	

# VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES OHIO

## 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
<b>Chardon</b>	112.7/CXR	A/2500	239	9.1	Over hangar NE corner of apt.
<b>Dryer</b> (Lorraine County Rgnl)	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
<b>Mansfield</b> (Mansfield Lahm Rgnl)	108.8/MFD	G	134	4.7	Int of twy A & D.
<b>Zanesville</b> (Zanesville Muni)	114.95/ZZV	G	016	0.4	Twy A adj to ramp.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Akron Canton Rgnl</b>	110.6	G	Ident is a series of dots.
<b>Cincinnati Muni Arpt Lunken Field</b>	108.4	G	
<b>Cleveland Hopkins Intl</b>	110.4	G	
<b>Dayton</b> (James M Cox Dayton Intl.)	111.0	G	

## WISCONSIN VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Eau Claire</b> (Chippewa Valley Rgnl)	113.65/EAU	G	182	2.1	Center of FBO ramp.
<b>Green Bay</b> (Green Bay-Austin Straubel Intl)	115.5/GRB	G	141	4.6	On Twy M at Rwy 18R apch end.
<b>Madison</b> (Dane Co. Rgnl-Truax Fld)	108.6/MSN	G	098	0.6	North edge of East ramp adj Twy J.
<b>Oshkosh</b> (Wittman Rgnl)	116.75/OSH	G	279	0.7	On taxiway at Rwy 09 apch end.
	116.75/OSH	G	173	0.7	On Taxiway A at A2 (abeam tower).
<b>Rhineland</b> (Rhineland Oneida Co)	115.05/RHI	G	212	0.5	At intersection of Twys B and E.

The following tabulation lists all reported parachute jumping areas in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. NOTAM D's may be issued to advise users of specific dates and times if outside the times /altitudes that are published. 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. Parachute jumping areas 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 Flight Service, tower, or ARTCC.

Qualified parachute jumping areas will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jumping 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) Log 1,000 or more jumps each year.

In addition, parachute jumping areas can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
<b>ILLINOIS</b>			
(c) Carmi Muni .....	19.7 NM; 298° Pocket City .....	9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove .....	19.8 NM; 202° Polo .....	12,000 AGL	3 NM radius. SR-SS year round.
(c) Greenville Arpt .....	18 NM; 210° Vandalia .....	13,500	3 NM radius. Weekends and holidays, SR-1 hour after SS. <b>Kansas City Center 124.3.</b>
(c) Minier, Illinois Valley Parachute Club Arpt .....	25 NM; 122° Peoria .....	15,000	Daily SR to 1 hour after SS.
Ottawa .....	23.1 NM; 246° Joliet .....	17,900 AGL	4 NM radius. SR-1 hr past SS.
(c) Ottawa, Skydive Chicago Arpt. ....	26 NM; 246° Joliet .....	17,900	2.5 NM radius. SR to 1 hour past SS. <b>Chicago Center 123.75.</b>
(c) Rantoul National Aviation Center-Frank Elliott Fld.....	16.5 NM; 019° Champaign .....	13,500	2 NM radius. Daily 0600-2200.
(c) Rochelle Muni, Chicagoland Skydiving Center .....	20.4 NM; 099° Polo .....	17,999	2.4 NM radius. Daily SR-SS. <b>Chicago/Rockford Intl Twr 121.0.</b>
Sterling .....	16 NM; 206° Polo .....	12,000 AGL	10 NM radius. Year round SR-SS.
Tampico .....	23 NM; 200° Polo .....	12,500	1 NM radius. Daily 1000-SS.
(c) Taylorville, Taylorville Muni .....	24 NM; 138° Spinner .....	15,000	5 NM radius. SR-1 hr past SS.
<b>INDIANA</b>			
Angola .....	33 NM; 040° Webster Lake .....	14,500	Mon, Wed, Fri, Sat, Sun 0900-SS.
Atterbury .....	20 NM; 208° Shelbyville .....	1,500	0.5 NM radius. Occasional use.
Cloverdale .....	25 NM; 085° Terre Haute .....	12,500	5 NM radius. Daily SR-SS.
(c) Connersville .....	39.1 NM; 241° Dayton .....	13,500	3 NM radius. Daily SR-SS.
Crawfordsville, Crawfordsville Rgnl .....	27.7 NM; 290° Brickyard .....	15,000	3 NM radius. Fri-Sat-Sun SR-SS.
(c) Flora, Flora Muni .....	22.4 NM; 272° Kokomo .....	13,000	5 NM radius. Weekends and holidays, Daily 0900-SS. <b>Grisson App Con 121.05.</b>
(c) Frankfort, Frankfort Muni .....	27.7 NM; 237° Kokomo .....	12,000 AGL	2 NM radius. Daily 0900-2000.
(c) Franklin, Franklin Flying Fld ...	17 NM; 220° Shelbyville .....	13,500	3 NM radius. Daily SR-SS.
Hobart, Hobart Sky Ranch Arpt ...	15 NM; 077° Chicago Heights .....	10,000 AGL	2 NM radius. Wed, weekends 0800-SS.
Kingsbury .....	23 NM; 230° Gipper .....	1,500	0.3 NM radius. Occasional use. Military use.
Mentone .....	26 NM; 183° Goshen .....	12,500	3 NM radius. Daily SR-SS.
(c) Michigan City, Skydive Windy City Drop Zone .....	23 NM; 260° Gipper .....	15,000	5 NM radius. Daily SR-SS. <b>South Bend Intl Twr 118.55.</b>
Muncie, Horizon Fld Drop Zone ...	10 NM; 360° Muncie .....	13,000	Daily 0600-1900. Parachute jumping 8 miles NE of Muncie.
Richmond, Richmond Muni .....	25.7 NM; 234° Dayton .....	14,500	3 NM radius. Daily SR-1 hour after SS.
Veedersburg, Songer Arpt .....	24 NM; 220° Boiler .....	10,000	5 NM radius. Weekends and holidays, SR-SS.

## PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
<b>MICHIGAN</b>			
(c) Acme Township, Cherry Capital Arpt, Traverse TC Drop Zone.....	6.8 NM; 032° Traverse City .....	Unrestricted	2 NM radius. SR-SS. Parachute operations aprox 5.25 NM ENE of KTC arpt. Typically from 14,500 FT can be higher. <b>Minneapolis ARTCC 132.9.</b>
(c) Allegan, Padgham Fld.....	13 NM; 072° Pullman .....	10,700	2 NM radius. Daily SR-SS.
Camp Grayling.....	17 NM; 160° Gaylord .....	1,500	0.5 NM radius. Apr-Nov, weekends plus annual training.
(c) Charlevoix Drop Zone.....	30 NM; 313° Gaylord .....	12,000	5 NM radius.
(c) Fowlerville, Maple Grove Arpt..	20 NM; 225° Flint .....	12,000	5 NM radius. Apr-Oct 0800-SS.
(c) Harbor Springs Arpt.....	17 NM; 235° Pellston .....	12,000	3 NM radius. May-Sep daily SR-SS.
(c) Midwest Freefall .....	35 NM; 56° Salem .....	17,999	3 NM radius. SR-SS, Apr 15 to Nov 1st. <b>Selfridge ANG 119.6.</b>
(c) Napoleon Arpt.....	37 NM; 285° Carleton .....	17,999	SR to SS Apr 1st to Nov 1st. 4 NM radius. <b>KALAMAZOO/Battle Creek ATCT--TRACON (AZO) 127.3</b>
(c) Saginaw, Saginaw Co H.W. Browne Arpt .....	11 NM; 125° Saginaw .....	12,000	2 NM radius. Apr-Nov daily SR-SS.
<b>OHIO</b>			
(c) Alliance, Barber Arpt .....	9 NM; 155° Akron .....	18,000	5 NM radius. Mon, Wed, Thur, Fri and weekends SR-SS. <b>Akron-Canton Rgnl Twr 125.5.</b>
(c) Ashland, Ashland Co Arpt .....	15 NM; 086° Mansfield .....	15,000	3 NM radius. Daily SR-SS. <b>Cleveland-Hopkins Intl Tower 124.2.</b>
Bellville .....	15 NM; 168° Mansfield .....	8,500	5 NM radius. SR-SS weekends.
Centerburg, Chapman Mem Fld Arpt.....	12 NM; 325° Appleton .....	12,000	Daily SR-SS.
(c) Circleville, Clark Dream Strip Drop Zone .....	13 NM; 332° Yellow Bud .....	17,500	2 NM radius. Wed 0600-Sun 2400. <b>John Glenn Columbus Intl Tower 125.95.</b>
Commercial Point.....	32 NM; 233° Appleton .....	10,000	0800-2100 Sat and Sun.
Findlay Arpt.....	9 NM; 355° Flag City .....	12,500 AGL	Daily.
(c) Garrettsville, Gates Arpt.....	11 NM; 172° Chardon .....	13,500 AGL	Daily SR-SS.
Grafton, Mole Arpt .....	10 NM; 139° Dryer .....	12,500	Daily 0700-0930.
Mansfield, Mansfield Drop Zone ...	4 NM; 132° Mansfield .....	3,000	3 NM radius. Tue-Fri 0800-2200. Unit training assembles one weekend a month 0800-1630.
(c) Middletown Rgnl/Hook Fld Arpt	29.5 NM; 183° Dayton .....	13,500	3 NM radius.
(c) Petersburg Arpt .....	16 NM; 294° Ellwood City .....	12,500 AGL	2 NM radius. Mon-Fri 1700-SS, weekends SR-SS.
Stonelick Parachute Center Drop Zone .....	27 NM; 068° Cincinnati .....	10,000	Daily SR-SS.
Sycamore .....	25 NM; 285° Mansfield .....	12,500 AGL	1 NM radius. Daily SR-SS.
Van Wert, Van Wert Co Arpt .....	27.3 NM; 104° Fort Wayne .....	10,000	Weekdays 1600-SS, Weekends SR-SS.
Wauseon, Fulton Co Arpt .....	42.9; 338° Flag City .....	10,500	1 NM radius. Daily SR-SS.
(c) Xenia, Skydive Greene County Inc Arpt.....	32 NM; 129° Dayton .....	12,500 AGL	Daily SR-2400.

## PARACHUTE JUMPING AREAS

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LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC OR GEOGRAPHIC COORDINATES	MAXIMUM ALTITUDE	REMARKS
<b>WISCONSIN</b>			
(c) Baldwin Arpt.....	43 NM; 098° Gopher.....	15,000 AGL	Daily SR-1 hour past SS.
(c) Beloit Arpt .....	7.1 NM; 117° Janesville .....	17,999	2.5 NM radius. SR-SS
(c) Bristol, Winfield Arpt .....	37.5 NM; 160° Badger.....	12,500 AGL	SR-1/2 hour past SS.
(c) Chippewa Falls, Wissota Arpt..	9 NM; 070° Eau Claire .....	15,000	5 NM radius. Daily SR-1 hour past SS.
(c) East Troy Muni Arpt.....	20 NM; 190° Badger .....	14,500 AGL	SR-1/2 hour past SS.
(c) Fort Atkinson Muni Arpt .....	25 NM; 247° Badger .....	14,000 AGL	3 NM radius. Daily SR-SS.
Lake Delton .....	3 NM; 332° Dells .....	12,500	Daily May 15–Sept 25.
(c) Marshall, Mathaire Fld Arpt....	16 NM; 058° Madison .....	12,500 AGL	SR-1/2 hour past SS.
(c) Pulaski, Carter Arpt .....	5 NM; 350° Green Bay .....	12,000 AGL	Daily SR-SS.
(c) Shiocton Arpt .....	17 NM; 250° Green Bay .....	13,500	5 NM. Daily SR-SS.
(c) Sturtevant, Sylvania Arpt, Skydive Midwest Drop Zone .....	28.7 NM; 148° Badger.....	14,500	3 NM radius. Daily from SR-SS Apr 1 to Nov 1 and weekends noon to SS Nov 2 to Mar 31. <b>General Mitchell Intl Twr 119.65.</b>
(c) Superior, Richard I Bong Arpt.	8 NM; 143° Duluth .....	12,500 AGL	3 NM radius. Daily SR-1 hour past SS.

**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**

<b>FACILITY NAME</b>	<b>CHART &amp; PANEL</b>
Cabaniss Fld NOLF, TX (NGW)	L-20H, 21A
Corpus App/Dep Con 125.4 307.9	
Navy Cabaniss Tower 119.65 299.6 (Mon–Thu 1400–0500Z‡, Fri 1400–0100Z‡)	
Fentress NALF, VA (NFE)	H-10I, 12I, L-35D
Oceana App/Dep Con 123.9 266.8	
Fry, OH (ØOH8)	L-27E
Columbus App/Dep Con 118.425	
Gila Bend AF AUX, AZ (GXF)	H-4J, L-5B
Luke App/Dep Con 125.45 263.125 (South) (Mon–Thu 1300–0530Z, Fri 1300–0130Z, clsd weekends and hol)	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2G, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
Joe Williams NOLF, MS (NJW)	H-6J, L-18G
Meridian App/Dep Con 276.4	
Bravo Tower 118.475 279.2 355.8 (Mon–Fri 1400–2330Z‡)	
Oak Grove MCOLF, NC (13NC)	L-35B
Cherry Point App/Dep Con 119.35 377.175	
Shell AHP, AL (SXS)	L-22I
Cairns App/Dep Con 133.45 239.275 (24 hrs Tue–Sat, 1200–0500Z‡ Sun–Mon) other times ctc	
Jax Center App/Dep Con 134.3 322.55	
Shell Tower 139.125 244.5 (1230–0600Z‡ Mon–Fri, exc hol)	
USAF Academy Bullseye Aux Airfield, CO (C090)	L-10F
ASOS 125.0	
Webster NOLF, MD (NU1)	H-10I, 12I,
Patuxent App/Dep Con 121.0 250.3	L-34E, 36I
Navy Webster Tower 127.0 358.0 (Mon–Fri, exc hol, other times on request, 1400–2200Z‡ or SS, whichever occurs first)	
For Clnc Del when NHK Apch is clsd ctc Potomac Apch at 866–640–4124	
Whitehouse NOLF, FL (NEN)	H-8H, L-21D, 24G
Jax Center App Con 127.775 377.075	
Jax Center Dep Con 127.775 379.9	
Whitehouse Tower 125.15 307.325 340.2 (Manned during scheduled operations only)	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Palm Beach App/Dep Con 317.4	
Gwinn Tower 120.4 279.25 (Mon–Fri 1300–2100Z‡)	
Gnd Con 121.65 279.25	

**CANADA**

<b>FACILITY NAME</b>	<b>CHART &amp; PANEL</b>
Abbotsford, BC (CYXX)	H-1B, L-12F
ATIS 119.8 (1500–0700Z‡)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground)	
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')	
Amos/Magny, QC (CYEE)	H-11B
Montreal Center App/Dep Con 125.9	
Atikokan Muni, ON (CYIB)	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
Barrie–Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
Toronto Center App/Dep Con 124.025	
Bar River, ON (CPF2)	L-31C
Toronto Center App/Dep Con 132.65	
Bathurst, NB (CZBF)	L-32J
Moncton Center App/Dep Con 134.25 AWOS 127.925	
Boundary Bay, BC (CZBB)	H-1B, L-1E
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'.)	
Brampton, ON (CNC3)	L-31D
Toronto Trml App/Dep Con 119.3	
Brandon Muni, MB (CYBR)	H-2H
Winnipeg Center App/Dep Con 132.25	
MF 122.1 (5 NM to 4000')	

# SUPPLEMENTAL COMMUNICATION REFERENCE

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## CANADA

FACILITY NAME	CHART & PANEL
Brantford, ON (CYFD)	L-31D
Toronto Trml App/Dep Con 128.27	
Brockville Rgnl Tackaberry ON (CNL3)	L-32G
Montreal Center App/Dep Con 134.675	
Bromont, QC (CZBM)	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
AUTO 122.975	
Burlington Executive, ON (CZBA)	L-31D
Toronto Center App/Dep Con 119.3 AUTO 122.55	
Castlegar/West Kootenay Rgnl, BC (CYCG)	H-1C
Vancouver Center App/Dep Con 134.2 227.3	
MF 122.1 (5 NM to 6500')	
Centralia/James T. Flld Muni, ON (CYCE)	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	
Charlottetown, PE (CYYG)	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
Chatham-Kent, ON (CYCK)	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	
Collingwood, ON (CNY3)	H-11B, L-31D
Toronto Center App/Dep Con 124.02	
Cornwall Rgnl, ON (CYCC)	L-32G
Boston Center App/Dep Con 135.25 377.1	
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-1C
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
Debert, NS (CCQ3)	H-11E, L-32J
Halifax Trml App/Dep Con 119.2 AUTO 122.275	
Digby, NS (CYID)	L-32J
Moncton Center App/Dep Con 123.9	
Downsview, ON (CYZD)	H-11B, L-31E
Toronto Center App/Dep Con 133.4	
MF 126.2 (1300--2300Z‡, 3 NM to 1700')	
Drummondville, QC (CSC3)	L-32H
Montreal Center App/Dep Con 132.35	
Earlton (Timiskaming Rgnl), ON (CYXR)	H-11B
MF 122.0 (5 NM to 3800')	
Elliot Lake Muni, ON (CYEL)	L-31C
Toronto Center App/Dep Con 135.4	
Fort Frances Muni, ON (CYAG)	L-14H
Minneapolis Center App/Dep Con 120.9	
Fredericton Intl, NB (CYFC)	H-11E, L-32I
ATIS 127.55 (1045--0345Z‡, OT AWOS)	
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1045--0345Z‡) Gnd Con 121.7 (1045--0345Z‡)	
MF 119.0 (0345--1045Z‡, 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep Con 135.3 266.3	
Greenwood, NS (CYZX)	H-11E, L-32J
ATIS 128.85 244.3 (1100--0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 236.6 324.3	
Gnd Con 133.75 289.4 Cncl Del 128.025 283.9	
Grimsby Air Park, ON (CNZB)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW)	H-11E, L-32J
ATIS 129.175 308.8 (Ltd hrs)	
App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0	
Moncton Center App/Dep Con 135.3	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Cncl Del 123.95	
Hamilton, ON (CYHM)	H-10H, 11B, L-11B
ATIS 128.1	
Toronto Trml App/Dep Con 119.7 Tower 125.0	
Gnd Con 121.6	
Kingston, ON (CYGK)	H-11C, L-31E, 32F
ATIS 135.55 (1115--0400Z‡)	
Montreal Center App/Dep Con 135.05 (0400--1115Z‡)	
MF 122.5 (1115--0400Z‡ 5 NM to 3300')	

## SUPPLEMENTAL COMMUNICATION REFERENCE

## CANADA

FACILITY NAME	CHART & PANEL
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') AWOS 125.1 (0400–1200Z‡)	H-11B, L-31D
Lachute, QC (CSE4) Montreal Center App Con 124.65 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 AUTO 122.975	H-11C
Langley, BC (CYNJ) ATIS 124.5 (1630–0230Z, DT 1530–0330Z) Victoria Trml App/Dep Con 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
Leamington, ON (CLM2) Detroit Approach App/Dep Con 134.3	L-30F
Lethbridge, AB (CYQL) ATIS 124.4 (1245–0545Z‡) 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/Manitobulin 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) ATIS 124.875 (1245–0345Z) MF 122.2 (1245–0345Z 5 NM to 5400')	H-1D
Midland/Huronia, 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/Dep Con 124.65 268.3 MF 119.1 (7 NM shape irregular to 2000') (03–11Z (DT 02–10Z)) (emerg only 450–476–3141) VFR Advisory 134.15 GND 121.8 (11–03Z (DT 10–02Z)) TWR 119.1 (11–03Z (DT 10–02Z)) (emerg only 450–476–3141) GND Advisory 121.8 (03–11Z (DT 02–10Z)) (emerg only 450–476–3141) (PTC avbl)	H-11C, 12K, L-32G
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 126.9 132.85 268.3 Tower 119.3 119.9 124.3 (old port) 267.1 Gnd Con 121.0 (West) 121.9 (East) 275.8 Clnc Del 125.6 Apron 122.275 (West) 122.075 (East) Montreal Trml Dep Con 120.42 (SE–S–SW) 124.65 (W–NW–NE) 268.3 VFR Advisory 134.15	H-11C, 12K, L-32G

# SUPPLEMENTAL COMMUNICATION REFERENCE

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## CANADA

FACILITY NAME	CHART & PANEL
Montreal/St-Hubert, QC (CYHU)	H-11C, L-32G
ATIS 124.9 (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) Montreal Center App/Dep Con 125.15 268.3 St Hubert Tower 118.4 (VFR Arr South and East) (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) Gnd Con 126.4 (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) MF 118.4 (Apr-Oct Tues-Sat 0500-1045Z‡, Apr-Oct Sun-Mon 0300-1045Z‡, Nov-Mar Tues-Sat 0400-1045Z‡, Nov-Mar Sun-Mon 0100-1045Z‡) 5 NM shape irregular to 2000' VFR Advisory 134.15 MIL 135.9 322.1 (438 Sqn Ops)	
Muskoka, ON (CYQA)	H-11B, L-31D
Timmins Radio App/Dep Con 122.3 MF 122.3 (5 NM to 3900')	
Nanaimo, BC (CYCD)	H-1B, L-1E
ATIS 128.425 (1-877-517-2847)(1400-0500Z) Victoria Trml App/Dep Con 120.8 121.075 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to 2500') GND ADV 122.6 (1330-0530Z (DT 1230-0430Z)) (emerg only 250-245-4032) (PTC avbl)	
North Bay, ON (CYBB)	L-31E
ATIS 124.9 (1130-0330Z‡) Toronto Center App/Dep Con 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	
Oshawa, ON (CYOO)	L-31E
ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15 Ottawa Trml App/Dep Con 127.7	
Ottawa/Gatineau, QC (CYND)	H-11C, L-32G
Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500) VFR Advisory Ottawa Trml 127.7 GND ADV 122.6 1130-0215Z (DT 1030-0115Z) (emerg only 819-643-2961)	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-11C
ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnx Del 119.4 Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-31D
Toronto Center App/Dep Con 132.575 290.6	
Pele Island, ON (CYPT)	L-30F
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYFF)	H-1B
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100) GND ADV 121.9 (emerg only 250-492-3001)	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32F
Toronto Center App/Dep Con 134.25 MF 123.0 (5 NM to 3600')	
Pincher Creek, AB (CZPC)	H-1D
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1E
ATIS 125.0 (1500-0700Z‡) Vancouver Center App Con 128.6 (Outer) 352.7 Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 (South) 363.8 MF 126.3 (0700-1500Z‡) (3NM to 2500)	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
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	
Riviere Du Loup, QC (CYRI)	H-11D
Montreal Center App/Dep Con 125.1 299.6	
Rouyn Noranda, QC (CYUY)	H-11B
Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	

## SUPPLEMENTAL COMMUNICATION REFERENCE

## CANADA

FACILITY NAME	CHART & PANEL
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 App/Dep Con 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM) ATIS 133.05 (1130-0330Z‡) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 118.8 (0330-1130Z‡ 5 NM irregular shape to 3000')	H-2K, L-31B
Sherbrooke, QC (CYSC) 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 Con 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
Springwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
St. Catherines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 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') Cinc Del 121.8 (PTC avbl)	H-31B, 10G, L-31D
Summerside, PE (CYSU) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
Thunder Bay, ON (CYQT) ATIS 128.8 Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡) 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 Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	H-11B
Toronto/Buttonville Muni., ON (CYKZ) Toronto Trml App/Dep Con 133.4 MF 124.8 (No gnd station. 5 NM shape irregular 2000 ASL)	L-31E
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130-0400Z‡) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7 (1130-0400Z‡)	L-31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 133.1 App Con 132.8 124.475 125.4 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 121.9 121.65 119.1 Cinc Del 121.3 (1200-0400Z‡) A-CDM Coordinator 122.875 (122.825) Apron Tow Coordinator 136.525	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 or 122.35	H-11C, L-31E, 32F
Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 MF 122.35 (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

# SUPPLEMENTAL COMMUNICATION REFERENCE

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## CANADA

FACILITY NAME	CHART & PANEL
Vancouver Intl, BC (CYVR)	H-1B, L-1E
ATIS 124.6	
App Con 128.6 128.17 (Outer) 133.1 134.225 (Inner) 352.7	
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 ClnC Del 121.4	
Victoria Intl, BC (CYJY)	H-1B, L-1E
ATIS 118.8 (0800-1400Z‡)	
App Con 125.45 Dep Con 125.95	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7)	
ClnC Del 126.4 (1400-0800Z‡)	
Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35 AUTO 122.17 (bil)	
Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYWG)	H-10G, L-8J
ATIS 134.5 (1200-0300Z‡)	
Detroit App/Dep Con 118.95 132.35 134.3 284.0	
Tower 124.7 (1200-0300Z‡) Gnd Con 121.7 (1200-0300Z‡)	
MF 124.7 (0300-1200Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3 AWOS 134.5 (0300-1200Z‡)	
Yarmouth, NS (CYQI)	H-11E, L-32I
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	

## MEXICO

FACILITY NAME	CHART & PANEL
Chihuahua Intl/General R Fierro Villalobos Intl (MMCU)	L-61
ATIS 127.9	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
Ciudad Juarez Intl/Abraham Gonzalez Intl (MMCS/CJS)	H-4L, L-6F
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Gnd 122.0	
Durango Intl (MMDO/DGO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
Matamoros Intl/General Servando Canales Intl (MMMA)	H-7C, L-21A
Matamoros App Con 118.0 Matamoros Tower 118.0	
Mexicali Intl/General Rodolfo Sanchez Taboada Intl (MMML)	H-4I, L-4J, 5A
ATIS 127.6 (1400-0200Z‡)	
Mexicali App Con 118.2 Mexicali Tower 118.2	
Mexicali Info 123.9 122.3	
Monterrey Intl/General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
Monterrey ATIS 127.7 Monterrey App Con 119.75 120.4	
Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9	
Monterrey ClnC Del 123.75 (1200-0400Z‡) Monterrey Info 122.45	
Nuevo Laredo/Quetzalcoatl (MMNL/NLD)	H-7B, L-20G
Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	
Reynosa Intl/General Lucio Blanco Intl (MMRX)	H-7B, L-20H
Reynosa App Con 127.2 Reynosa Tower 118.8	
Saltillo Intl/Plan De Guadalupe Intl (MMIO/SLW)	H-7B
Saltillo App Con 127.4 Saltillo Tower 118.4	
Tijuana Intl/General Abelardo L Rodriguez Intl (MMTJ)	H-4I, L-4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana ClnC Del 122.35	
Tijuana Info 132.1	
Torreón Intl (MMTC)	H-7A
App Con 119.6 Tower 118.5 Info 122.3	

## PREFERRED IFR ROUTES

### 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 preferred 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 navaids.
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 navaids, 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 inc) 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. All Preferred IFR Routes are in effect continuously unless otherwise noted.
14. Use current SIDs and STARs 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)
<b>CHICAGO(MDW)</b>		
DETROIT(DTW) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)\LEWKE GIJ HOSSA HAYLL (RNAV)-STAR... or (DME/DME/IRU PR GPS REQUIRED)(DTW SOUTH FLOW)\LEWKE GIJ HOSSA VCTRZ (RNAV)-STAR ..	
PITTSBURGH(PIT).....	LEWKE ZIINE OTENS ANEWA DJB ACO JESEY (RNAV)-STAR.....	
<b>CHICAGO(ORD)</b>		
DETROIT SATS(DET,ARB,PTK,YIP,CYQQ) .....	(AOB 170; DME/DME/IRU OR GPS REQUIRED)DUFEE ELX HOSSA PETTE (RNAV)-STAR .....	
DETROIT(DTW) .....	(150–230 INC; DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)\RAYNR BRTMN DNIKA TAAYZ PETTY DUUDA KKIIS (RNAV)-STAR..... or (150–230 INC; DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)\RAYNR BRTMN DNIKA TAAYZ PETTY DUUDA RKCTY (RNAV)-STAR .....	1100–0300
MUSKEGON(MKG) .....	PETTY .....	1100–0300
PITTSBURGH(PIT).....	MOBLE ADIME OTENS ANEWA DJB ACO JESEY (RNAV)-STAR.....	
SAGINAW(MBS) .....	PETTY MKG.....	
<b>CHICAGO/ROCKFORD(RFD)</b>		
SOUTH BEND(SBN) .....	GRIFT T265 KLROY .....	
<b>DETROIT METRO(DTW,DET,YQQ,PTK,YIP,ARB)</b>		
MILWAUKEE(MKE).....	(RNAV ONLY)MIGGY (RNAV)-DP GETCH LYSTR SUDDS (6000'–17000' INCL; RNAV ONLY)LIDD'S (RNAV)-DP GRIVY CUTTA JESEY JESEY (RNAV)-STAR.....	1100–0300
PITTSBURGH(PIT).....	EC, 30 NOV 2023 to 25 JAN 2024	

Terminals	Route	Effective Times (UTC)
<b>MILWAUKEE(MKE)</b>		
DETROIT SATS(DET,ARB,PTK,YIP,CYQQ)	(DME/DME/IRU OR GPS REQUIRED)SQUIB WEBOR RRALF (RNAV)-STAR .....	
DETROIT(DTW) .....	(60-170 INCL; DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)SQUIB DUUDA RKCTY (RNAV)-STAR or (60-170 INCL; DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)SQUIB DUUDA KKIIS (RNAV)-STAR	
<b>MOLINE(MLI)</b>		
	(AOB 140)(DTW NORTH FLOW)SWAYD LECTR (RNAV)-STAR .....	
	or	
	(AOB 140)(DTW SOUTH FLOW)SWAYD HANBL (RNAV)-STAR .....	
<b>MONTREAL(CYUL)</b>		
NEW YORK(LGA).....	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR.....	
	or	
	FAWNS BUGSY ALB HAARP-STAR .....	
NEWARK(EWR).....	(80-170 INCL, 250 KTS OR LESS; PROPS, TURBOPROPS LESS THAN 250 KTS)FAWNS BUGSY HANAA ALB V489 COATE.....	1100-0300
	or	
	(110-170 INCL, MORE THAN 250 KTS; 250 KTS OR GREATER)FAWNS BUGSY HANAA FLOSI (RNAV)-STAR	1100-0300
TETERBORO(TEB) .....	FAWNS BUGSY HANAA ALB V489 COATE.....	
WHITE PLAINS(HPN).....	(250 KTS OR GREATER)FAWNS BUGSY ALB VALRE-STAR.....	
	or	
	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR.....	
<b>PEORIA(PIA)</b>		
CHICAGO(MDW).....	PIA PIA056 MOTIF JOT .....	
CHICAGO(ORD).....	PIA PIA035 V10 PLANO .....	
<b>SPRINGFIELD(SPI)</b>		
CHICAGO(MDW).....	PNT MOTIF-STAR .....	
CHICAGO(ORD).....	PNT TRTLL (RNAV)-STAR .....	

**HIGH ALTITUDE**

Terminals	Route	Effective Times (UTC)
<b>AKRON(CAK)</b>		
CHARLOTTE(CLT).....	CTW JPU HVQ LNDIZ PARQR (RNAV)-STAR .....	
CHICAGO(ORD).....	(ADVANCED RNAV)MFD092 MFD WEEVR Q62 WATSN WATSN (RNAV)-STAR .....	
<b>ALTON/ST LOUIS(ALN)</b>		
CHICAGO(MDW).....	(TURBOJET)SPI POOGY ENDEE (RNAV)-STAR.....	
	or	
	(TURBOJET)SPI MOTIF-STAR.....	
CHICAGO(ORD).....	(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR ....	
	or	
	(TURBOJET)LEBOY BDF BRADFORD-STAR .....	
	or	
	(TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR ....	
<b>BELLEVILLE(BLV)</b>		
	(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR ....	
	or	
	(TURBOJET)LEBOY BDF BRADFORD-STAR .....	
	or	
	(TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR ....	
<b>BLOOMINGTON/NORMAL(BMI)</b>		
DETROIT(DTW) .....	(LANDING NORTH)BMI SWAYD LECTR (RNAV)-STAR or (LANDING SOUTH)BMI SWAYD HANBL (RNAV)-STAR	

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
CAHOKIA/ST LOUIS(CPS)	(TURBOJET)SPI MOTIF-STAR .....	
CHICAGO(MDW) .....	or (TURBOJET)SPI POOGY ENDEE (RNAV)-STAR .....	
CHICAGO(ORD).....	(TURBOJET)LEBOY CASHN TRTLL (RNAV)-STAR .... or (TURBOJET)LEBOY CASHN SHAIN (RNAV)-STAR....	
CHICAGO SATS(PWK,UGN,C81,10C,3CK)		
DETROIT(DTW) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)RAYNR BRTMN DNIKA TAAZ PETTY PORZL KKISS (RNAV)-STAR..... or (DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)RAYNR BRTMN DNIKA TAAZ PETTY PORZL RKCTY (RNAV)-STAR.....	
CHICAGO(MDW)		
ALBANY(ALB) .....	LEWKE GJ EVOTE NELLS KEEHO JHW Q82 LOXXE.	
ALLENTOWN(NABE) .....	LEWKE GJ J146 FJC .....	
ATLANTA(ATL).....	(TURBOJETS - RNAV ONLY)CMWSKY CARYN CYBIL PXV BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR	
AUSTIN(AUS) .....	ACITO ADELL ARLYN STL FSM BROBB WINDU SEWZY (RNAV)-STAR.....	
BALTIMORE(BWI) .....	LEWKE GJ OTENS ANEWA JERRI NUSMM ANTHM (RNAV)-STAR.....	
BIRMINGHAM(BHM) .....	CMWSKY CARYN CYBIL PXV NULLS.....	
BOCA RATON(BCT) .....	DENN DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN VUUDU (RNAV)-STAR .....	
BOSTON(BOS) .....	LEWKE GJ EVOTE NELLS KEEHO JHW Q82 PONCT JFUND (RNAV)-STAR .....	
BRISTOL/JOHNSON/KINGSPORT(TRI) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
BUFFALO(BUF) .....	LEWKE GJ EVOTE NELLS KEEHO DKK .....	
CHARLESTON(CHS) .....	EARND ELANR EMMLY ETAME EMEGE FLM SPA DEFFN OSPRI (RNAV)-STAR .....	
CHARLESTON(CRW) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
CHARLOTTE(CLT) .....	EARND ELANR EMMLY ERECO IIU SKYWA FILPZ (RNAV)-STAR .....	
CHATTANOOGA(CHA).....	DENNT DARCY DREGS DONVE BWG .....	
CLEVELAND	(RNAV TURBOJET)LEWKE ZIINE BENJO BRWNZ (RNAV)-STAR .....	
METRO(CLE,CGF,BKL,LNN,LPR).....	LEWKE GJ SEWTO FWA BRYEN DUBLN (RNAV)-STAR (NON-RNAV)EON V399 VHP SHELBYVILLE-STAR ..	
COLUMBUS(CMH) .....	or (RNAV)EARND ELANR CEGRM (RNAV)-STAR .....	
COVINGTON(CVG) .....	(TURBOJET)(DFW NORTH FLOW)ACITO ADELL ARLYN STL RZC FSM RRNET BRDJE (RNAV)-STAR ..	
DALLAS-FORT WORTH(DFW) .....	or (TURBOJET)(DFW SOUTH FLOW)ACITO ADELL ARLYN STL RZC FSM RRNET SEEVR (RNAV)-STAR ..	
DAYTON(DAY) .....	LEWKE GJ SEWTO FWA V277 ROD .....	
DENVER(DEN) .....	PEKUE OBENE OGALE OBH BRWRY LAWGR (RNAV)-STAR .....	
DETROIT(DTW) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)LEWKE GJ HOSSA VCTRZ (RNAV)-STAR ..	
	or (DME/DME/IRU OR GPS REQUIRED)(LANDING NORTH)RAYNR BRTMN DNIKA TAAZ PETTY PORZL KKISS (RNAV)-STAR .....	
	or (DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)LEWKE GJ HOSSA HAYLL (RNAV)-STAR... or (DME/DME/IRU OR GPS REQUIRED)(LANDING SOUTH)RAYNR BRTMN DNIKA TAAZ PETTY PORZL RKCTY (RNAV)-STAR.....	
EVANSVILLE(EVV) .....	DENNT DARCY DREGS DONVE .....	
FORT LAUDERDALE(FLL).....	DENN DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN TEEKY (RNAV)-STAR .....	
FORT MYERS(RSW) .....	CMWSKY CARYN CYBIL PXV HITMN Q19 BULZI Q81 NICKI PLYER TYNEE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
GREENSBORO(GSO) .....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME FLM TRAKS (RNAV)-STAR..... or (NON-RNAV)EON DNV VHP J24 FLM GZG BROOK-STAR EARND ELANR EMMLY ERECO IIU DAJPI RCTOR (RNAV)-STAR.....	
GREER(GSP) .....	(TURBOJETS – DME/DME/IRU OR GPS)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB WAPP(L (RNAV)-STAR	
HOUSTON(HOU) .....	(TURBOJETS, TURBOPROPS)(IAH EAST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB GESNR (RNAV)-STAR..... or (TURBOJETS, TURBOPROPS)(IAH FLOW WEST)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ZEEKK (RNAV)-STAR .....	
HOUSTON(IAH) .....	DENNNT DARCY DREGS DONVE BWG .....	
HUNTSVILLE(HSV) .....	EARND ELANR EMMLY JAKKS JAKKS (RNAV)-STAR	
INDIANAPOLIS(IND) .....	(TURBOJETS ONLY; DME/DME/IRU OR GPS REQUIRED)DENNT DARCY DREGS DUMGE SCOTO SWAPP THRSR DUCHY OHDEA (RNAV)-STAR .....	
JACKSONVILLE(JAX) .....	EARND ELANR EMMLY ETAME EMEGE FLM J43 VXV (DME/DME/IRU OR GNSS REQUIRED)LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 PONCT ROZZE (RNAV)-STAR (RNAV ONLY)CMWSKY CARYN CYBIL PVX BLUZZ (RNAV)-STAR..... or (RNAV ONLY)BACEN BLOKR BEKKI FAM WHOLL BRBBQ (RNAV)-STAR .....	1100-0300
KNOXVILLE(TYS) .....	CMSKY CARYN CYBIL PVX HITMN ACORI FROGZ (RNAV)-STAR .....	
MANCHESTER(MHT) .....	(TURBOJETS)PMPKPN NEATO DLLAN RONIC KAMMA KKILR (RNAV)-STAR .....	1000-0300
MEMPHIS(MEM) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB TRSSH (RNAV)-STAR .....	
MIAMI(MIA) .....	CMSKY CARYN CYBIL PVX GUMMA RYYMN (RNAV)-STAR .....	
MINNEAPOLIS(MSP) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 STW LENDY LEWKE GIJ J146 ETG MILTON-STAR .....	
MSY,NEW,NBG .....	LEWKE GIJ EVOTE NELLS KEEHO J584 SLT FQM WILLIAMSPT-STAR .....	
NASHVILLE(BNA) .....	DENNNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZJAYX GRNCH (RNAV)-STAR .....	
NEW YORK(ISP) .....	DENNNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZPLEN MJKAL JAFAR (RNAV)-STAR .....	
NEW YORK(LGA) .....	LEWKE GIJ J146 CXR EWC JST BOJID (RNAV)-STAR PEKUE PIPPN ELYNA BACNN J18 GCK J96 CIM ZUN EAGUL (RNAV)-STAR .....	
NEWARK(EWR) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 MEMMS HINGZ WIPOR (RNAV)-STAR .....	
NORFOLK(ORF) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
ORLANDO(MCO) .....	DENNNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZJAYX GRNCH (RNAV)-STAR .....	
ORLANDO(ORL) .....	DENNNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSR ZPLEN MJKAL JAFAR (RNAV)-STAR .....	
PHILADELPHIA(PHL) .....	LEWKE GIJ J146 CXR EWC JST BOJID (RNAV)-STAR PEKUE PIPPN ELYNA BACNN J18 GCK J96 CIM ZUN EAGUL (RNAV)-STAR .....	
PHOENIX(PHX) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 MEMMS HINGZ WIPOR (RNAV)-STAR .....	
PROVIDENCE(PVD) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW TIVAE ALDAN (RNAV)-STAR .....	
RALEIGH/DURHAM(RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL SPIDR (RNAV)-STAR .....	
RICHMOND(RIC) .....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME EMEGE FLM .....	
ROANOKE(ROA) .....	LEWKE GIJ EVOTE NELLS KEEHO DKK BUF .....	
ROCHESTER(ROC) .....	PEKUE OBENE OGALE OBH SNY J84 DTA J148 KROST RUMPS OAL INYOE DYAMD (RNAV)-STAR .....	
SAN FRANCISCO(SFO) .....	(JETS/TURBOPROPS ONLY)CMWSKY CARYN CYBIL PVX HITMN ACORI BANGZ (RNAV)-STAR .....	
SARASOTA/BRADENTON(SRQ) .....	CMSKY CARYN CYBIL PVX HITMN ACORI MAATY (RNAV)-STAR .....	
TAMPA(TPA) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ WILKES-BARRE-STAR .....	
TEREBORO(TEB) .....	LEWKE GIJ J146 GERBS .....	
TOLEDO(TOL) .....	LEWKE GIJ J146 CXR EWC JST J152 HAR BUNTS-STAR	
TRENTON(TTN) .....		

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
WASHINGTON(DCA).....	(CONV)LEWKE GIJ OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR .....	
	or	
WASHINGTON(IAD).....	(ADVANCED RNAV)LEWKE GIJ OTENS ANEWA JERRI NUSMM BUCKO FRDMM (RNAV)-STAR .....	
WEST PALM BEACH(PBI) .....	(ADVANCED RNAV)LEWKE GIJ OTENS ANEWA JERRI NUSMM MGW GIBBZ (RNAV)-STAR .....	
WHITE PLAINS(HPN) .....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN VUUDU (RNAV)-STAR .....	
WINDSOR LOCKS(BDL) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW MEMMS DNY VALRE-STAR .....	
<b>CHICAGO(ORD)</b>	(RNAV ONLY)LEWKE GIJ EVOTE NELLS KEEHO JHW Q82 MEMMS WILET STELA-STAR .....	
AKRON(CAK) .....	DUFEE LOGGR DETMR BRWNZ (RNAV)-STAR .....	
ALBANY(ALB) .....	EBAKE WISMO POSTS PADDE SVM DKK .....	
ALLENTOWN(ABE) .....	MOBLE ADIME GERBS J146 MIP .....	
ATLANTA(ATL).....	(RNAV ONLY)CMWSKY CARYN CYBIL PXV BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR .....	
ATLANTIC CITY(ACY) .....	MOBLE ADIME GERBS J146 CXR EWC JST J152 HAR DQO ENO SIE .....	
AUSTIN(AUS) .....	ACITO ADELL ARLYN STL FSM BROBB WINDU SEWZY (RNAV)-STAR .....	
BALTIMORE(BWI) .....	MOBLE ADIME OTENS ANEWA JERRI NUSMM ANTHM (RNAV)-STAR .....	
BEDFORD(BED) .....	EBAKE WISMO POSTS PADDE SVM DKK PONCT EEGUL ZELKA (RNAV)-STAR .....	
BIRMINGHAM(BHM) .....	CMWSKY CARYN CYBIL PXV NULLS .....	
BOCA RATON(BCT) .....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN VUUDU (RNAV)-STAR .....	
BOSTON(BOS) .....	EBAKE WISMO POSTS PADDE SVM DKK PONCT JFUND (RNAV)-STAR .....	
BRISTOL/JOHNSON/KINGSPORT(TRI) ..	EARNR ELANR EMMLY ETAME EMEGE FLM .....	
BUFFALO(BUF) .....	DUFEE ELX HAAKK DOXXY SOSIC WTEVR DOBIE DKK EBAKE WISMO POSTS PADDE SVM DKK GONZZ .....	
BURLINGTON(BTV) .....	MOBLE ADIME OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR .....	
CAMP SPRINGS(ADW).....	EARNR ELANR EMMLY ETAME EMEGE FLM SPA DEFFN OSPRI (RNAV)-STAR .....	
CHARLESTON(CHS) .....	EARNR ELANR EMMLY ETAME EMEGE FLM .....	
CHARLESTON(CRW) .....	EARNR ELANR EMMLY ERECO IIU SKYWA FILPZ (RNAV)-STAR .....	
CHARLOTTE(CLT) .....	DENNT DARCY DREGS DONVE BWG .....	
CHATTANOOGA(CHA).....	(RNAV TURBOJET)DUFEE LOGGR DETMR BRWNZ (RNAV)-STAR .....	
CLEVELAND(CLE).....	EARNR ELANR EMMLY ETAME EMEGE FLM .....	
COLUMBIA(CAE) .....	MOBLE ADIME SEWTO FWA BRYEN DUBLN (RNAV)-STAR .....	
COLUMBUS(CMH) .....	(RNAV)EARNR ELANR CEGRM (RNAV)-STAR .....	
COVINGTON(CVG).....	(TURBOJET)(DFW SOUTH FLOW)ACITO ADELL ARLYN STL RZC FSM RRNET SEEVR (RNAV)-STAR .....	
DALLAS-FORT WORTH(DFW) .....	or (TURBOJET)(DFW NORTH FLOW)ACITO ADELL ARLYN STL RZC FSM RRNET BRDJE (RNAV)-STAR .....	
DAYTON(DAY) .....	MOBLE ADIME SEWTO FWA V277 ROD .....	
DENVER(DEN) .....	OLINN OREOS OBENE OGALE OBH BRWRY LAWGR (RNAV)-STAR .....	
DETROIT SATS(DET,ARB,PTK,YIP,CYQG)	(DME/DME/IRU OR GPS REQUIRED)PETTY WEBOR RRALF (RNAV)-STAR .....	
DETROIT(DTW) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)RAYNR BRTMN DNIKA TAAYZ PETTY DUUDA KKISS (RNAV)-STAR .....	
	or	
EVANSVILLE(EVV) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)RAYNR BRTMN DNIKA TAAYZ PETTY DUUDA RKCTY (RNAV)-STAR .....	
FORT LAUDERDALE(FLL).....	DENNT DARCY DREGS DONVE .....	
	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN TEEKY (RNAV)-STAR .....	

## PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
FORT MYERS(RSW) .....	CMSKY CARYN CYBIL PXV HITMN Q19 BULZI Q81 NICKI PLYER TYNEE (RNAV)-STAR .....	
GREENSBORO(GSO) .....	(DME/DME/IRU OR GPS)EARND ELANR EMMLY ETAME EMEGE FLM TRAKS (RNAV)-STAR .....	
GREER(GSP) .....	EARND ELANR EMMLY ERECO IIU DAJPI RCTOR (RNAV)-STAR .....	
HOUSTON(HOU) .....	(TURBOJETS-DME/DME/IRU OR GPS)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB WAPPL (RNAV)-STAR	
HOUSTON(IAH) .....	(TURBOJETS, TURBOPROPS)(IAH EAST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB GESNR (RNAV)-STAR .....	
	or	
HUNTSVILLE(HSV) .....	(TURBOJETS, TURBOPROPS)(IAH WEST FLOW)BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ZEEKK (RNAV)-STAR .....	
HYANNIS(HYA) .....	DENNT DARCY DREGS DONVE BWG .....	
INDIANAPOLIS(IND) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LFV	
JACKSONVILLE(JAX) .....	EARND ELANR EMMLY JAKKS JAKKS (RNAV)-STAR (TURBOJETS ONLY; DME/DME/IRU OR GPS REQUIRED)DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSL DUCHY OHDEA (RNAV)-STAR	
KNOXVILLE(TYS) .....	EARND ELANR EMMLY ETAME EMEGE FLM J43 XV (DME/DME/IRU OR GNSS REQUIRED)EBAKE WISMO POSTS PADDE SVM DKK PONCT ROZZE (RNAV)-STAR (RNAV ONLY)BACEN BLOKR BEKKI FAM WHOLL BRBBQ (RNAV)-STAR .....	1100-0300
MANCHESTER(MHT) .....	or	
MEMPHIS(MEM) .....	(RNAV ONLY)CMSKY CARYN CYBIL PXV BLUZZ (RNAV)-STAR .....	
MIAMI(MIA) .....	CMSKY CARYN CYBIL PXV HITMN ACORI FROGZ (RNAV)-STAR .....	1000-0300
MINNEAPOLIS(MSP) .....	(TURBOJETS)PMPKPN NEATO DLLAN RONIC KAMMA KKILR (RNAV)-STAR .....	
	or	
MSY,NEW,NBG .....	(TURBOJETS)MYKIE MONNY MNOSO BLUEM (RNAV)-STAR .....	1000-0300
MYRTLE BEACH(MYR) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB TRSSH (RNAV)-STAR .....	
NANTUCKET(ACK) .....	EARND ELANR EMMLY ETAME EMEGE FLM WNGUD EBAKE WISMO POSTS PADDE SVM DKK PONCT ENE V167 LFV .....	
NASHVILLE(BNA) .....	(RNAV)CMSKY CARYN CYBIL PXV GUMMA RYYMN (RNAV)-STAR .....	
NEW HAVEN(HVN) .....	DUFEE ELX HAACK DOXXY SOSIC JHW RKA DENNA-STAR .....	
NEW ORLEANS(MSY) .....	EARND ELANR EMMLY ERECO IIU RYANS .....	
NEW YORK(JFK) .....	DUFEE ELX HAACK DOXXY SOSIC JHW J70 LVZ LENDY-STAR .....	
NEW YORK(LGA) .....	MOBLE ADIME GERBS J146 ETG MILTON-STAR .....	
NEW YORK(SWF) .....	DUFEE ELX HAACK DOXXY SOSIC JHW MEMMS DNY V483 FILPS .....	
NEWARK(EWR) .....	DUFEE ELX HAACK DOXXY SOSIC KEEHO J584 SLT FQM WILLIAMSPORT-STAR .....	
NIAGARA FALLS(IAG) .....	EBAKE WISMO POSTS PADDE SVM DERLO .....	
NORFOLK(ORF) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
ORLANDO(MCO) .....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 THRSL ZJAYX GRNCH (RNAV)-STAR .....	
ORLANDO(ORL) .....	DENNT DARCY DREGS DUMGE SWAPP Q79 THRSL ZPLEN MJKAL JAFAR (RNAV)-STAR .....	
PHILADELPHIA(PHL) .....	MOBLE ADIME GERBS J146 CXR EWC JST BOJID (RNAV)-STAR .....	
PHOENIX(PHX) .....	PEKUE PIPPN ELYNA BACNN J18 GCK J96 CIM ZUN EAGUL (RNAV)-STAR .....	
PITTSBURGH(PIT) .....	MOBLE ADIME OTENS ANEWA TAMDE ACO JESEY (RNAV)-STAR .....	
PORLAND(PWM) .....	(ADVANCED RNAV ONLY)EBAKE WISMO POSTS PADDE SVM DKK ALB CAM CDOGG (RNAV)-STAR .....	
PROVIDENCE(PVD) .....	(RNAV ONLY)DUFEE ELX HAACK DOXXY SOSIC JHW Q82 MEMMS Q140 KODEY HINGZ WIPOR (RNAV)-STAR	

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
RALEIGH/DURHAM(RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW TIVAE ALDAN (RNAV)-STAR .....	
RICHMOND(RIC) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL SPIDR (RNAV)-STAR .....	
ROANOKE(ROA) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
ROCHESTER(ROC) .....	DUFEE ELX HAAKK DOXXY SOSIC WTEVR DOBIE DKK BUF .....	
SAN FRANCISCO(SFO) .....	(TURBOJET)NOONY NIGHT NITWT OBH KD63U DTA J148 OAL INYOE DYAMD (RNAV)-STAR .....	
SAN JUAN(TJS) .....	MOBLE ADIME GERBS J146 CXR EWC JST SIE .....	
SARASOTA/BRADENTON(SRQ) .....	(JETS/TURBOPROPS ONLY)CMWSKY CARYN CYBIL PXV HITMUN ACORI BANGZ (RNAV)-STAR .....	
SYRACUSE(SYR) .....	EBAKE WISMO POSTS PADDE SVM DKK .....	
TAMPA(TPA) .....	CMWSKY CARYN CYBIL PXV HITMUN ACORI MAATY (RNAV)-STAR .....	
TOLEDO(TOL) .....	MOBLE ADIME GERBS .....	
WASHINGTON(DCA) .....	(CONVENTIONAL)MOBLE ADIME OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR .....	
	or	
WASHINGTON(IAD) .....	(ADVANCED RNAV)MOBLE ADIME OTENS ANEWA JERRI NUSMM BUCKO FRDMM (RNAV)-STAR .....	
WEST PALM BEACH(PBI) .....	(ADVANCED RNAV)MOBLE ADIME OTENS ANEWA JERRI NUSMM MGW GIBBZ (RNAV)-STAR .....	
WHITE PLAINS(HPN) .....	DENNT DARCY DREGS DUMGE SCOTO SWAPP Q79 ZPLEN VUUDU (RNAV)-STAR .....	
WILKES-BARRE/SCRANTON(AVP) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW MEMMS DNY VALRE-STAR .....	
WINDSOR LOCKS(BDL) .....	DUFEE ELX HAAKK DOXXY SOSIC DMACK LACIE (RNAV)DUFEE ELX HAAKK DOXXY SOSIC JHW Q82 MEMMS WILET STELA-STAR .....	
<b>CHICAGO/ROCKFORD(RFD)</b>		
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR) .....	(RNAV TURBOJET)AHMED LEWKE ZIINE BENJO BRWNZ (RNAV)-STAR .....	
<b>CINCINNATI(LUK)</b>		
AUSTIN(AUS) .....	CHCLL (RNAV)-DP IIU PXV LIT J131 TXK BROBB WINDU SEWZY (RNAV)-STAR .....	
MANCHESTER(MHT) .....	(DME/DME/IRU OR GNSS REQUIRED)ROCKT (RNAV)-DP AHTIV PSB PONCT ROZZE (RNAV)-STAR .....	1100-0300
<b>CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR)</b>		
ATLANTA(ATL) .....	(RNAV ONLY)CAVVS (RNAV)-DP APE HLRRY ONDRE (RNAV)-STAR .....	
CHARLOTTE(CLT) .....	(RNAV ONLY)CAVVS (RNAV)-DP APE HVQ LNDZ PARQR (RNAV)-STAR .....	
CHICAGO(MDW) .....	(RNAV ONLY)GTLKE (RNAV)-DP BAGEL PANG (RNAV)-STAR .....	
CHICAGO(ORD) .....	(RNAV ONLY)GTLKE (RNAV)-DP DAIFE WATSN WATSN (RNAV)-STAR .....	
COVINGTON(CVG) .....	(RNAV ONLY)CAVVS (RNAV)-DP APE TIGRR (RNAV)-STAR .....	
DALLAS-FORT WORTH(DFW) .....	(RNAV)(DFW SOUTH FLOW)ZAAPA (RNAV)-DP SINKR PXV LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or	
HOUSTON(HOU) .....	(RNAV TURBOJET)(DFW NORTH FLOW)ZAAPA (RNAV)-DP SINKR PXV LIT FEWWWW BRDJE (RNAV)-STAR .....	
HOUSTON(IAH) .....	(RNAV ONLY)ZAAPA (RNAV)-DP SINKR TIIDE Q31 DHART SWB WAPPL (RNAV)-STAR .....	
	or	
INDIANAPOLIS(IND) .....	(RNAV ONLY)(IAH WEST FLOW)ZAAPA (RNAV)-DP SINKR TIIDE Q31 DHART SWB ZEEKK (RNAV)-STAR .....	
LAS VEGAS(LAS) .....	ZAAPA (RNAV)-DP SINKR SNKPT SNKPT (RNAV)-STAR .....	
	or	
LOS ANGELES(LAX) .....	GTLKE (RNAV)-DP YABRO BDF PWE HBU DVC TYEGR CHOWW (RNAV)-STAR .....	
	or	
	GTLKE (RNAV)-DP YABRO IOW J60 HVE GGAPP CHOWW (RNAV)-STAR .....	
	(RNAV ONLY)GTLKE (RNAV)-DP YABRO IOW HVE PROMT Q88 HAKMN ANJLL (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
MILWAUKEE(MKE).....	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE PEGEET GETCH LYSTR SUDDS .....	
MINNEAPOLIS(MSP).....	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE J34 VIO KAMMA KKILR (RNAV)-STAR MSP .....	1000-0300
PHOENIX(PHX).....	(RNAV ONLY)ZAAPA (RNAV)-DP SNNOH VHP ICT GUP EAGUL (RNAV)-STAR.....	
	or	
	(RNAV ONLY)GTLKE (RNAV)-DP YABRO IOW PWE HLC PUB ALS GUP EAGUL (RNAV)-STAR .....	
RALEIGH/DURHAM(RDU) .....	CAVVS (RNAV)-DP APE BKW TIVAE ALDAN (RNAV)-STAR .....	
SAN FRANCISCO(SFO) .....	(RNAV ONLY)ZAAPA (RNAV)-DP VHP SNNOH J80 OAL INYOE DYAMD (RNAV)-STAR.....	
	or	
	(RNAV ONLY)GTLKE (RNAV)-DP ALPHE J70 PMM J94 DBQ FOD ONL J94 LLC LEGGS BDEGA (RNAV)-STAR (RNAV ONLY)GTLKE (RNAV)-DP ALPHE J34 BAE J16 PDT CHINS-STAR .....	
SEATTLE(SEA).....	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM ANTHM (RNAV)-STAR .....	
CLEVELAND(CLE)	(RNAV ONLY)PFLYD (RNAV)-DP DUUKR JHW Q82 PONCT JFUND (RNAV)-STAR .....	1100-0300
BALTIMORE(BWI).....	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 PRMUS CUUDA (RNAV)-STAR .....	
BOSTON(BOS).....	CAVVS (RNAV)-DP APE J83 SPA IRQ CYNTA SHFTY (RNAV)-STAR .....	
FORT LAUDERDALE(FLL).....	(RNAV TURBOJET/TURBOPROP)ZAAPA (RNAV)-DP SNNOH VHP SPI EUING RUDDH (RNAV)-STAR .....	
FORT MYERS(RSW).....	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 DEBRL CSTAL (RNAV)-STAR .....	
KANSAS CITY(MCI).....	(RNAV ONLY)PFLYD (RNAV)-DP JASEE HOXIE J70 LVZ LENDY-STAR .....	
MIAMI(MIA) .....	(RNAV ONLY)PFLYD (RNAV)-DP MAAJR ETG MILTON-STAR .....	
NEW YORK(JFK).....	(RNAV ONLY)PFLYD (RNAV)-DP DORET J584 SLT WILLIAMSPT-STAR .....	
NEW YORK(LGA).....	(MCO LANDING NORTH)CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 GIPPL Q85 LPERD SNFLD (RNAV)-STAR or	
NEWARK(EWR).....	(MCO LANDING SOUTH)CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 GIPPL Q85 LPERD GTOUT (RNAV)-STAR	
ORLANDO(MCO) .....	(RNAV ONLY)KKIDS (RNAV)-DP EWC JST BOJD (RNAV)-STAR .....	
PHILADELPHIA(PHL).....	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM BUCKO FRDMM (RNAV)-STAR .....	
WASHINGTON(DCA).....	(RNAV ONLY)KKIDS (RNAV)-DP NUSMM MGW GIBBZ (RNAV)-STAR .....	
WASHINGTON(IAD).....	CAVVS (RNAV)-DP APE J83 SPA QUIWE Q93 KENLL CPTAN (RNAV)-STAR .....	
WEST PALM BEACH(PBI).....	(RNAV TURBOJET)(DFW NORTH FLOW)DQN CVG PVX J131 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or	
COLUMBUS(CMH)	(ALL OTHERS)DQN CVG PVX J131 LIT WILBR-STAR OHIOS HVQ J85 SPA QUIWE Q93 PRMUS CUUDA (RNAV)-STAR .....	
DALLAS-FORT WORTH(DFW) .....	OHIOS HVQ J85 SPA QUIWE Q93 DEBRL CSTAL (RNAV)-STAR .....	
	OHIOS HVQ J85 SPA IRQ WHYYT GRNCH (RNAV)-STAR	
FORT LAUDERDALE(FLL).....	OHIOS HVQ J85 SPA QUIWE Q93 KENLL CPTAN (RNAV)-STAR .....	
MIAMI(MIA) .....	(RNAV TURBOJET)(DFW NORTH FLOW)PVX J131 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or	
ORLANDO(MCO) .....	(ALL OTHERS)PVX J131 LIT WILBR-STAR .....	
WEST PALM BEACH(PBI).....		
DAYTON(DAY)		
DALLAS-FORT WORTH(DFW) .....		

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
DETROIT METRO(DTW,DET,YQG,PTK,YIP,ARB)		
ATLANTA(ATL).....	(RNAV ONLY)BARI (RNAV)-DP SINKR IIU BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR..... or (RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM KTRYN ONDRE (RNAV)-STAR.....	
BALTIMORE(BWI) .....	(RNAV ONLY)LIDDS (RNAV)-DP GRIVY NUSMM ANTHM (RNAV)-STAR.....	
BOSTON(BOS) .....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT JFUND (RNAV)-STAR.....	1100-0300
BUFFALO(BUF).....	(RNAV ONLY)HHOWE (RNAV)-DP BROKK DKK BUF	
BURLINGTON(BTV).....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW LAGGS	
CHARLOTTE(CLT) .....	(RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM TAFTT PARQR (RNAV)-STAR.....	
CHICAGO(MDW) .....	(RNAV ONLY)CCOBB (RNAV)-DP ZEGBI LEROY BAGEL PANGG (RNAV)-STAR.....	
CHICAGO(ORD).....	(ADVANCED RNAV)SNDRS (RNAV)-DP SNDRS NOLNN Q62 WATSN WATSN (RNAV)-STAR .....	
	or	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR).....	(ADVANCED RNAV)KAYLN (RNAV)-DP SMUUV WYNDE WYNDE (RNAV)-STAR .....	
COLUMBUS(CMH) .....	(RNAV ONLY)LIDDS (RNAV)-DP LIDDS WINNZ BRWNZ (RNAV)-STAR.....	
COVINGTON(CVG).....	CLVIN (RNAV)-DP CLVIN ESSIE DUBLN (RNAV)-STAR (RNAV ONLY)SNDRS (RNAV)-DP TORRR DEBAR ARBAS RID MEEKR.....	
DALLAS-FORT WORTH(DFW).....	(RNAV ONLY)(DFW NORTH FLOW)SNDRS (RNAV)-DP BGHRT STL RZC RRNET BRDJE (RNAV)-STAR ....	
	or	
DENVER(DEN).....	(RNAV ONLY)(DFW SOUTH FLOW)SNDRS (RNAV)-DP BGHRT STL RZC FSM RRNET SEEVR (RNAV)-STAR KAYLN (RNAV)-DP SMUUV IANNA ONL PORDR AALLE (RNAV)-STAR.....	
FORT MYERS(RSW) .....	CLVIN (RNAV)-DP STAZE VXV TEUFL CYNTA SHFTY (RNAV)-STAR.....	
GREER(GSP).....	(RNAV ONLY)CLVIN (RNAV)-DP STAZE FLM LOZ DAJPI RCTOR (RNAV)-STAR .....	
HOUSTON(HOU).....	(RNAV ONLY)BARI (RNAV)-DP SINKR PXV J131 LIT J180 SWB WAPPL (RNAV)-STAR .....	
HOUSTON(IAH).....	(RNAV ONLY)(IAH WEST FLOW)BARI (RNAV)-DP SINKR TIIDE Q31 DHART SWB ZEEKK (RNAV)-STAR .....	
	or	
INDIANAPOLIS(IND).....	(RNAV ONLY)(IAH EAST FLOW)BARI (RNAV)-DP SINKR TIIDE Q31 DHART SWB GESNR (RNAV)-STAR .....	
LOUISVILLE(SDF).....	(RNAV ONLY)SNDRS (RNAV)-DP TORRR SNKPT SNKPT (RNAV)-STAR.....	
MANCHESTER(MHT).....	(RNAV EQUIPPED)BARI (RNAV)-DP SINKR CVG DLAMP (RNAV)-STAR.....	
MEMPHIS(MEM) .....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT ROZZE (RNAV)-STAR .....	1100-0300
MINNEAPOLIS(MSP) .....	(RNAV ONLY)BARI (RNAV)-DP SINKR PXV BLUZZ (RNAV)-STAR.....	
MSY,NEW,NBG .....	(RNAV TURBOJECTS)MIGGY (RNAV)-DP SLLAP Q440 IDIOM MUSCL (RNAV)-STAR .....	1000-0300
NEW YORK(JFK) .....	(RNAV ONLY)BARI (RNAV)-DP SINKR IIU Q139 HITMN MERDN TRSSH (RNAV)-STAR .....	
NEW YORK(LGA).....	(RNAV ONLY)PAVYL (RNAV)-DP MRDOC HOXIE J70 LVZ LENDY-STAR .....	
NEWARK(EWR) .....	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE CXR J146 ETG MILTON-STAR .....	
NORFOLK(ORF) .....	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE SLT FQM EWR LIDDS (RNAV)-DP GRIVY NUSMM MOL TERKS-STAR	
PHILADELPHIA(PHL).....	(RNAV ONLY)PAVYL (RNAV)-DP ESSBE CXR EWC JST BOJID (RNAV)-STAR .....	
PITTSBURGH(PIT).....	(RNAV ONLY)LIDDS (RNAV)-DP GRIVY CUTTA JESEY JESEY (RNAV)-STAR .....	
PORTLAND(PWM).....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 PONCT CAM CDQOG (RNAV)-STAR .....	1100-0300
PROVIDENCE(PVD) .....	(RNAV ONLY)HHOWE (RNAV)-DP LNCON JHW Q82 MEMMS HINGZ WIPOR (RNAV)-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
RALEIGH/DURHAM(RDU) .....	LIDDS (RNAV)-DP GRIVY NUSMM EKN TIVAE ALDAN (RNAV)-STAR .....	
RICHMOND(RIC) .....	(RNAV EQUIPPED)LIDDS (RNAV)-DP GRIVY NUSMM MOL SPIDR (RNAV)-STAR .....	
ROANOKE(ROA) .....	(RNAV EQUIPPED)LIDDS (RNAV)-DP GRIVY NUSMM EKN ROA .....	
ROCHESTER(ROC).....	HHOWE (RNAV)-DP BROKK DKK BUF .....	
SAN ANTONIO(SAT).....	(RNAV EQUIPPED)SNDRS (RNAV)-DP BGHRT STL RZC MLC ACT BRAUN (RNAV)-STAR .....	
SAN FRANCISCO(SFO) .....	(RNAV EQUIPPED)KAYLN (RNAV)-DP SMUUV BFF J157 MTU J148 OAL INYOE DYAMD (RNAV)-STAR .....	
SYRACUSE(SYR).....	(RNAV EQUIPPED)HHOWE (RNAV)-DP LNCON JHW (RNAV EQUIPPED)PAVL (RNAV)-DP MRDOC HOXIE J70 LVZ WILKES-BARRE-STAR .....	
TEREBORO(TEB) .....	(RNAV ONLY)LIDDS (RNAV)-DP GRIVY BUCKO FRDMM (RNAV)-STAR .....	
WASHINGTON(DCA).....	CLVIN (RNAV)-DP STAZE BKW GIBBZ (RNAV)-STAR or (RNAV ONLY)LIDDS (RNAV)-DP GRIVY AIR MGW GIBBZ (RNAV)-STAR .....	
WASHINGTON(IAD).....	HHOWE (RNAV)-DP LNCON JHW MEMMS DNY VALRE-STAR .....	
WHITE PLAINS(HPN).....		
<b>DETROIT(DTW)</b>		
AUSTIN(AUS).....	BARI (RNAV)-DP SINKR TERGE FSM BROBB WINDU SEWZY (RNAV)-STAR .....	
FORT LAUDERDALE(FLL).....	CLVIN (RNAV)-DP STAZE VXX THRSR Q79 ZPLEN TEEKY (RNAV)-STAR .....	
MIAMI(MIA) .....	CLVIN (RNAV)-DP STAZE VXX THRSR HONID FROGZ (RNAV)-STAR .....	
ORLANDO(MCO) .....	CLVIN (RNAV)-DP STAZE VXX TEUFL WHYYT GRNCH (RNAV)-STAR .....	
TAMPA(TPA) .....	CLVIN (RNAV)-DP STAZE VXX DAREE Q65 KERLY BAAMF DADES (RNAV)-STAR .....	
WEST PALM BEACH(PBI).....	CLVIN (RNAV)-DP STAZE VXX THRSR Q79 ZPLEN VUUDU (RNAV)-STAR .....	
<b>ELKHART(EKM)</b>		
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR) .....	(RNAV TURBOJET)BENJO BRWNZ (RNAV)-STAR .....	
<b>FORT WAYNE(FWA)</b>		
COVINGTON(CVG) .....	FWA ZEKUS ARBAS RID MEEKR CVG .....	
<b>GRAND RAPIDS(GRR)</b>		
ATLANTA(ATL) .....	FWA IIU BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR .....	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR) .....	(RNAV TURBOJET)HASTE BRWNZ (RNAV)-STAR .....	
COVINGTON(CVG) .....	FWA ZEKUS ARBAS RID MEEKR CVG .....	
DENVER(DEN) .....	OBK JORDY ONL PORDR AALLE (RNAV)-STAR .....	
<b>KALAMAZOO(AZO)</b>		
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR) .....	(RNAV TURBOJET)DETMR BRWNZ (RNAV)-STAR ...	
COVINGTON(CVG) .....	FWA ZEKUS ARBAS RID MEEKR CVG .....	
<b>MADISON(MSN)</b>		
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR) .....	(RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)-STAR	
DENVER(DEN) .....	LNR MCW ONL PORDR AALLE (RNAV)-STAR .....	
<b>MILWAUKEE(MKE)</b>		
AKRON(CAK) .....	(RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)-STAR	
ALBANY(ALB) .....	SQUIB MKG HOCKE Q935 FABEN .....	
BALTIMORE(BWI).....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM ANTHM (RNAV)-STAR .....	
BEDFORD(BED) .....	SQUIB MKG HOCKE Q935 PONCT EEGUL ZELKA (RNAV)-STAR .....	
BOCA RATON(BCT).....	UECKR (RNAV)-DP DELHI PXV HITMN ACORI VUUDU (RNAV)-STAR .....	
BOSTON(BOS).....	SQUIB MKG HOCKE Q816 KELTI NABOR PONCT JFUND (RNAV)-STAR .....	
BUFFALO(BUF) .....	SQUIB MKG YXU .....	
BURLINGTON(BTV) .....	SQUIB MKG HOCKE DERLO WOZEE GONZZ .....	

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
CAMP SPRINGS(ADW).....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR .....	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR).....	(RNAV TURBOJET)SQUIB OLYEE BRWNZ (RNAV)-STAR	
DENVER(DEN).....	GREAS JAYEX MCW ONL PORDR AALLE (RNAV)-STAR	
DETROIT(DTW).....	(DME/DME/IRU OR GPS REQUIRED)(DTW NORTH FLOW)SQUIB DUUDA KKIIS (RNAV)-STAR .....	
	or	
FLINT(FNT) .....	(DME/DME/IRU OR GPS REQUIRED)(DTW SOUTH FLOW)SQUIB DUUDA RKCTY (RNAV)-STAR .....	
FORT LAUDERDALE(FLL).....	SQUIB.....	
FORT MYERS(FMY) .....	UECKR (RNAV)-DP DELHI PXV HITMN ACORI TEEKY (RNAV)-STAR.....	
HARRISBURG(MDT).....	UECKR (RNAV)-DP DELHI PXV HITMN Q19 BULZI Q81 NICKI PLYER TYNEE (RNAV)-STAR.....	1100-0300
HOUSTON(HOU).....	OBK SAMPL ADIME GERBS J146 CXR EWC HAR .... (TURBOJETS-DME/DME/IRU OR GPS)LIT J180 SWB WAPPL (RNAV)-STAR.....	
HOUSTON(IAH).....	(TURBOJETS, TURBOPROPS)(IAH EAST FLOW)LIT J180 SWB GESNR (RNAV)-STAR .....	
	or	
HYANNIS(HYA) .....	(TURBOJETS, TURBOPROPS)(IAH WEST FLOW)LIT J180 SWB ZEEKK (RNAV)-STAR.....	
JACKSON(JXN) .....	SQUIB MKG HOCKE Q935 WOZEE ENE.....	
KANSAS CITY(MCI).....	SQUIB.....	
KANSAS CITY(MKC) .....	(RNAV TURBOJET/TURBOPROP)BULET RUDDH (RNAV)-STAR.....	
LANSING(LAN) .....	IRK BRAYMER-STAR .....	
MANSFIELD(MFD).....	SQUIB VIO .....	
MIAMI(MIA).....	OBK SAMPL ADIME OTENS .....	
MONTREAL(CYUL) .....	UECKR (RNAV)-DP DELHI PXV HITMN ACORI FROGZ (RNAV)-STAR .....	
MORRISTOWN(MMU).....	(DME/DME/IRU OR GNSS REQUIRED)SQUIB MKG HOCKE Q905 SIKBO Q951 SANIN MIGLO HABBS (CANADIAN) (RNAV)-STAR .....	
NASHVILLE(BNA).....	SQUIB MKG HOCKE Q935 HANKK IGN WEARD V489 COATE .....	
NEW YORK(JFK) .....	UECKR (RNAV)-DP DELHI PXV GUMMA RYYMN (RNAV)-STAR .....	
NEW YORK(LGA).....	SQUIB MKG HOCKE Q935 HANKK Q140 YODAA IGN KINGSTON-STAR .....	
NEWARK(EWR) .....	(TURBOJET)SQUIB MKG HOCKE Q935 AUDIL RKA HAARP-STAR .....	
NIAGARA FALLS(IAG) .....	SQUIB MKG HOCKE Q935 HANKK Q140 KODEY HNK FLOSI (RNAV)-STAR .....	
ORLANDO(MCO) .....	SQUIB MKG YXU.....	
ORLANDO(ORL).....	OBK DELHI TTH BWG JILIS THRSR ZJAYX GRNC (RNAV)-STAR .....	
PHILADELPHIA(PHL).....	OBK DELHI TTH BWG JILIS THRSR ZPLEN MJKAL JAFAR (RNAV)-STAR .....	
PITTSBURGH(PIT).....	OBK SAMPL ADIME GERBS J146 CXR EWC JST BOJID (RNAV)-STAR .....	
PORTLAND(PWM).....	UECKR (RNAV)-DP SAMPL ADIME OTENS ANEWA TAMDE ACO JESEY (RNAV)-STAR .....	
POTTSTOWN(PTW) .....	SQUIB MKG HOCKE Q935 PONCT CAM CDOGG (RNAV)-STAR .....	
PROVIDENCE(PVD) .....	SQUIB ADALE J34 CRL CXR EWC JST .....	
SARASOTA/BRADENTON(SRQ).....	(TURBOJET, TURBOPROPS)SQUIB MKG HOCKE Q816 KELTI HANKK Q140 ARRKK HINGZ WIPOR (RNAV)-STAR .....	
SYRACUSE(SYR) .....	(JETS/TURBOPROPS ONLY)UECKR (RNAV)-DP DELHI PXV HITMN ACORI BANGZ (RNAV)-STAR .....	
TAMPA(TPA).....	SQUIB MKG HOCKE Q935 WOZEE .....	
TERBORO(TEB).....	UECKR (RNAV)-DP DELHI PXV HITMN ACORI MAATY (RNAV)-STAR .....	
TORONTO(CYYZ).....	(DME/DME/IRU OR GNSS REQUIRED)SQUIB MKG HOCKE Q935 HANKK Q140 KODEY HNK V167 WEARD .. SQUIB MKG MONEE NUBER (CANADIAN) (RNAV)-STAR	1100-0300

Terminals	Route	Effective Times (UTC)
WASHINGTON(DCA) .....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM BUCKO FRDMM (RNAV)-STAR .....	
	or	
WASHINGTON(IAD) .....	OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM BUCKO NUMMY-STAR .....	
WEST PALM BEACH(PBI).....	(RNAV EQUIPPED)OBK SAMPL ADIME OTENS ANEWA JERRI NUSMM MGW GIBBZ (RNAV)-STAR .....	
WHITE PLAINS(HPN).....	UECKR (RNAV)-DP DELHI PXV HITMN ACORI VUUDU (RNAV)-STAR .....	
WINDSOR LOCKS(BDL).....	SQUIB MKG HOCKE Q935 WOZEE MEMMS DNY VALRE-STAR .....	
YOUNGSTOWN/WARREN(YNG) .....	(TURBOJET, TURBOPROP)SQUIB MKG HOCKE Q816 KELTI AUDIL STELA-STAR .....	
MOLINE(MLI)	OBK SAMPL ADIME GERBS CXR.....	
CLEVELAND	(RNAV TURBOJET)DUFEE LOGGR DETMR BRWNZ (RNAV)-STAR .....	
METRO(CLE,CGF,BKL,LNN,LPR).....	(AOA 140)(DTW SOUTH FLOW)MIHAL WITGO BAE PORZL RKCTY (RNAV)-STAR .....	
DETROIT(DTW) .....	or	
MONTREAL(CYUL)	(AOA 140)(DTW NORTH FLOW)MIHAL WITGO BAE PORZL RKCTY (RNAV)-STAR .....	
06FA, BCT, F45, PBI .....	(JETS ONLY)(WATER)FAWNS BUGSY PONCT Q113 LLUND Q437 VILLS Q409 CRPLR EARZZ Q131 WAALT Y289 DULEE CLMNT (RNAV)-STAR .....	
06FA,BCT,FXE,PBI,PMP .....	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 KENLL CPTAN (RNAV)-STAR .....	
07FA, HST, MIA, TMB, X51 .....	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 DEBRL CSTAL (RNAV)-STAR .....	
	or	
07FA,FLL,HST,HWO,MIA,OPF,TMB,X51	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)(WATER)FAWNS BUGSY PONCT Q133 LLUND Q437 VILLS Q409 CRPLR BGBRD Q101 SKARP Y313 HOAGG BNFSH (RNAV)-STAR .....	
BALTIMORE(BWI).....	(VL/TURBOPROP ONLY: INCL EA50, E50P, SF50, C510, C525)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 KENLL TARPN (RNAV)-STAR .....	
CHARLOTTE(CLT).....	FAWNS BUGSY PONCT BIZEX Q75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
FLL, OPF .....	FAWNS BUGSY PONCT BIZEX Q75 GVE LYH CHSLY (RNAV)-STAR .....	
FORT MYERS(RSW) .....	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)(WATER)FAWNS BUGSY PONCT Q133 LLUND Q437 VILLS Q409 CRPLR KOOKI Q133 CHIEZ Y291 MAJIK CUUDA (RNAV)-STAR .....	1100-0300
FRG, JFK .....	or	
NEW YORK(LGA).....	(JETS ONLY, EXCLUDES EA50, E50P, SF50, C510, C525)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 JEVED Q97 PRMUS CUUDA (RNAV)-STAR .....	1100-0300
NEWARK(EWR).....	FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q103 CYNTA SHFTY (RNAV)-STAR .....	1100-0300
	(DME/DME/IRU OR GNSS REQUIRED)FAWNS BUGSY ALB IGN KINGSTON-STAR .....	
	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR .....	
	or	
	FAWNS BUGSY ALB HAARP-STAR .....	1100-0300
	(PROPS, TURBOPROPS LESS THAN 250 KTS)FAWNS BUGSY HANAA ALB V489 COATE .....	
	or	
	(250 KTS OR GREATER)FAWNS BUGSY HANAA FLOSI (RNAV)-STAR .....	

**PREFERRED IFR ROUTES**

<b>Terminals</b>	<b>Route</b>	<b>Effective Times (UTC)</b>
ORLANDO(MCO) .....	(MCO LANDING NORTH)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 ROYCO Q85 LPERD SNFLD (RNAV)-STAR..... or (MCO LANDING SOUTH)FAWNS BUGSY PONCT BIZEX Q75 SLOJO Q83 ROYCO Q85 LPERD GTOUT (RNAV)-STAR.....	
TAMPA(TPA).....	FAWNS BUGSY PONCT BIZEX Q75 TEUFL BAAMF DADES (RNAV)-STAR .....	1100-0300
TEREBORO(TEB).....	FAWNS BUGSY HANAA ALB V489 COATE .....	
WASHINGTON(DCA).....	FAWNS BUGSY PONCT BIZEX Q75 MXE CLIPR (RNAV)-STAR.....	
WHITE PLAINS(HPN) .....	(PROPS, TURBOPROPS 250 KTS OR LESS)FAWNS BUGSY ALB NOBBI-STAR .....	
	or (250 KTS OR GREATER)FAWNS BUGSY ALB VALRE-STAR .....	
<b>PEORIA(PIA)</b>		
DETROIT(DTW).....	(DTW SOUTH FLOW)SWAYD HANBL (RNAV)-STAR. or (DTW NORTH FLOW)SWAYD LECTR (RNAV)-STAR .	
<b>SOUTH BEND(SBN)</b>		
ATLANTA(ATL).....	PXV BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR (RNAV TURBOJET)BENJO BRWNZ (RNAV)-STAR....	
CLEVELAND METRO(CLE,CGF,BKL,LNN,LPR).....	FWA ZEKUS ARBAS RID MEEKR CVG.....	
COVINGTON(CVG).....	(TURBOJET)PNT TRICH TRTLL (RNAV)-STAR .....	
	or (TURBOJET)PNT TRICH SHAIN (RNAV)-STAR.....	
<b>SPRINGFIELD(SPI)</b>		
CHICAGO(ORD).....	RID III BNA NEWBB IHAVE MTHEW CHPPR (RNAV)-STAR.....	
<b>TOLEDO(TOL)</b>		
ATLANTA(ATL).....	J34 AIR MGW GIBBZ (RNAV)-STAR .....	

**SPECIAL HIGH ALTITUDE PREFERRED DIRECTION ROUTES**

<b>Terminals</b>	<b>Route</b>	<b>Effective Times (UTC)</b>
TRAFFIC OVERFLYING BADGER (BAE) VORTAC TO WASHINGTON DULLES (IAD) (GPS OR DME/DME-IRU EQUIPPED)		
TRAFFIC OVERFLYING GIPPER (GU) VORTAC TO WASHINGTON DULLES (IAD) (GPS OR DME/DME-IRU)	J146 WOOST J34 AIR MGW GIBBZ (RNAV)-STAR.....	
TRAFFIC OVERFLYING SOUTHEASTERN ZAU LANDING CINCINNATI SATS LUK,HAO,I69,K62	FWA HEDEE-STAR .....	
TRAFFIC OVERFLYING SOUTHEASTERN ZAU LANDING CVG	FWA ZEKUS ARBAS RID MEEKR CVG .....	
TRAFFIC OVERFLYING ZAU LANDING DETROIT SATS YIP,ARB,MTZ,ONZ,PTK,TTF,VLL NORTHEAST BOUND .....	WWODD PETTE (RNAV)-STAR.....	
TRAFFIC OVERFLYING ZAU LANDING DTW (DTW LANDING NORTH) (AOB FL330) NORTHEAST BOUND .....	WWODD LECTR (RNAV)-STAR .....	
TRAFFIC OVERFLYING ZAU LANDING DTW (DTW LANDING SOUTH) (AOB FL330) NORTHEAST BOUND .....	WWODD HANBL (RNAV)-STAR.....	
TRAFFIC OVERFLYING ZAU LANDING TOL (AOB FL290) NORTHEAST BOUND .....	SWAYD TOL .....	

**HIGH ALTITUDE—PREFERRED DIRECTION ROUTES**

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J30.....	JOLIET, IL to TRIXY, VA .....	E BND	1100-0300
J34.....	BELLAIRE, OH to TRIXY, VA.....	E BND	1100-0300
J162.....	BELLAIRE, OH to MARTINSBURG, WV.....	E BND	1100-0300

## MINIMUM OPERATIONAL NETWORK (MON) AIRPORT LISTING

STATE	CITY	AIRPORT NAME	LOCATION IDENTIFIER
IL	CHICAGO/WEST CHICAGO	DUPAGE	DPA
IL	DECATUR	DECATUR	DEC
IL	OLNEY-NOBLE	OLNEY-NOBLE	OLY
IN	EVANSVILLE	EVANSVILLE RGNL	EVV
IN	INDIANAPOLIS	INDIANAPOLIS RGNL	MQJ
MI	GRAND RAPIDS	GERALD R FORD INTL	GRR
MI	HOWELL	LIVINGSTON COUNTY SPENCER J HARDY	OZW
MI	IRONWOOD	GOGEBIC-IRON COUNTY	IWD
MI	MARQUETTE	SAWYER INTL	SAW
MI	SAULT STE MARIE	SAULT STE MARIE MUNI/SANDERSON FIELD	ANJ
MI	TRVERSE CITY	CHERRY CAPITAL	TVC
OH	AKRON	AKRON-CANTON RGNL	CAK
OH	NEWARK	NEWARK-HEATH	VTA
WI	BARABOO	BARABOO-WISCONSIN DELLS RGNL	DLL
WI	GREEN BAY	GREEN BAY-AUSTIN STRABEL INTL	GRB
WI	Madison	DANE COUNTY RGNL-TRUAX FIELD	MSN

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 Chart Supplement. 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 Chart Supplement may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

#### 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 "1" beside the name.

A star (\*) indicates non-standard PCL, consult Chart Supplement, e.g., \*

To activate lights, use frequency indicated in the communication section of the chart with a 1 or the appropriate lighting system identification e.g., UNICOM 122.8

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

#### CHART CURRENCY INFORMATION

Date of Latest Revision    09365

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



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

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

#### MISCELLANEOUS

- \* Indicates a non-continuously operating facility, see Chart Supplement.

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

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

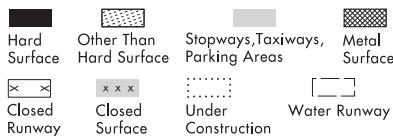
23334

## LEGEND

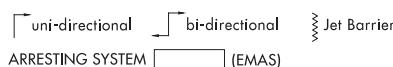
## INSTRUMENT APPROACH PROCEDURES (CHARTS)

## AIRPORT DIAGRAM/AIRPORT SKETCH

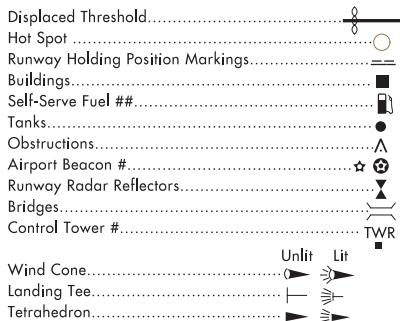
## Runways



**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.



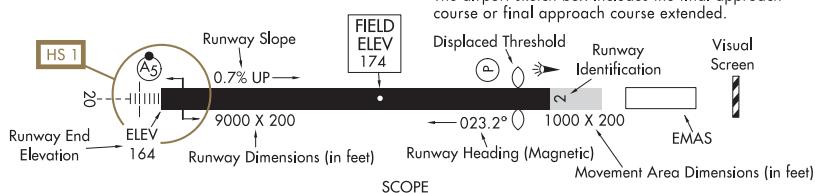
## REFERENCE FEATURES



# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

## See appropriate Chart Supplement for information.

Runway Weight Bearing Capacity or Pavement Classification Number (PCN)/Pavement Classification Rating (PCR) is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCR 560 R/B/W/T; S-75, D-185, 2D-325, 2D/2D2-1120



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

## LEGEND

**HOT SPOTS**

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>ILLINOIS</b>		
ALTON/ST LOUIS		
ST LOUIS RGNL (ALN)	HS 1 HS 2	Twy C and Rwy 11, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy C. Twy A and Rwy 17–35, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy A.
BELLEVILLE		
SCOTT AFB/MIDAMERICA ST LOUIS (BLV)	HS 1 HS 2	Maint vigilance Twy G due to numerous veh crossings. Maint vigilance Twy G close proximity to the ramp and numerous veh crossings.
BLOOMINGTON/NORMAL		
CENTRAL IL RGNL/BLOOMINGTON-NORMAL (BMI)	HS 1 HS 2	Twy G intersecting Rwy 11–29. Short taxi distance from terminal ramp. Hold line on Twy E is used for Rwy 02–20 and Rwy 29.
CARBONDALE/MURPHYSBORO		
SOUTHERN ILLINOIS (MDH)	HS 1 HS 2	Intersection of Rwy 06–24 and Twy A. Rwy incursion risk. Intersection of Rwy 06–24 and Twy C. Rwy incursion risk.
CHAMPAIGN/URBANA		
UNIVERSITY OF ILLINOIS/WILLARD (CMI)	HS 1	Complex intersection of Twy A, Twy A2, Twy B, Twy C, and Twy D, Twy D1, and Twy E.
CHICAGO		
CHICAGO MIDWAY INTL (MDW)	HS 1 HS 2 HS 3 HS 4	Taxiing to Rwy 04L from Twy W. Note: dispclcd thld and unique turn onto Rwy 04L. Intersection of Rwy 04R and Twy F. Rwy 04R may be active whenever Rwy 31C is also active. Hold short line for Rwy 31L immediately after Twy F and Twy K intersection, on Twy K. Short taxi distance from terminal ramp to hold position for Rwy 13L–31R.
CHICAGO		
CHICAGO O'HARE INTL (ORD)	HS 1 HS 2	Acft/vehicles taxiing on Twy A bnn Twy A19 and Twy A17, use caution for acft pushing onto Twy A fr Gates K18 and K20. Acft/vehicles taxiing on Twy A bnn Twy A12 and Twy A11, use caution for acft pushing onto Twy A fr Gates F26 and F28.
CHICAGO/PROSPECT HEIGHTS/WHEELING		
CHICAGO EXEC (PWK)	HS 1 HS 2	Twy E, Twy K, and Twy C complex intersection in close proximity of rwys. Twy intersection in close proximity of Rwy 06.
CHICAGO/ROCKFORD		
CHICAGO/ROCKFORD INTL (RFD)	HS 1	Complex intersection.
MARION		
VETERANS AIRPORT OF SOUTHERN ILLINOIS (MWA)	HS 1 HS 2 HS 3	This area is not visible from the twr. This area is not visible from the twr. Hold short of Rwy 02 at Twy B for departure on Rwy 11. Some pilots mistakenly line up on Rwy 02.
PEORIA		
GENERAL DOWNING – PEORIA INTL (PIA)	HS 1 HS 2	Complex intersection in close proximity to two rwys. Short taxi distance to Rwy 04–22.

**AIRPORT DIAGRAMS**

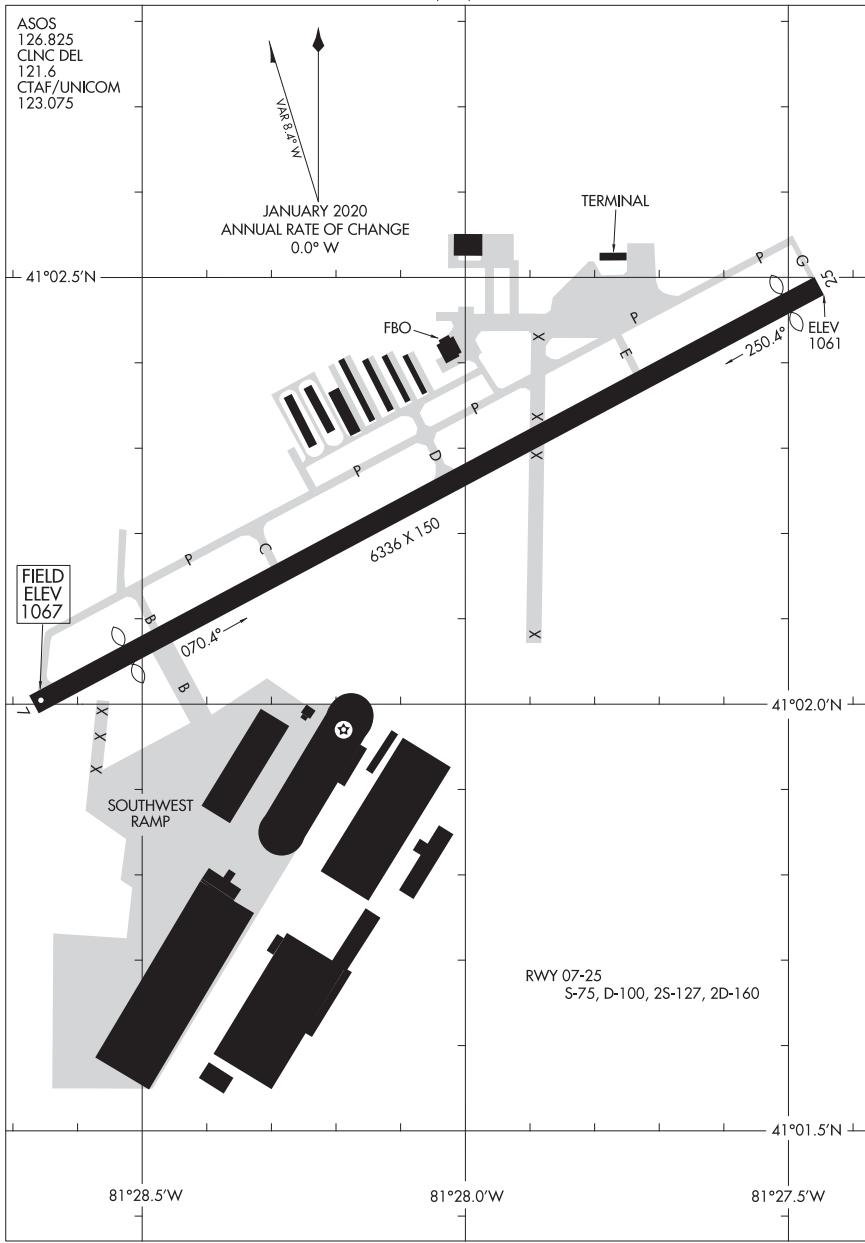
CITY/AIRPORT	HOT SPOT	DESCRIPTION
QUINCY QUINCY RGNL-BALDWIN FLD (UIN)	HS 1	No line of sight fr Rwy 04–22 rwy ends to Rwy 31 end. Announce intentions and mnt CTAF for awareness of potential crossing tfc.
	<b>INDIANA</b>	
COLUMBUS COLUMBUS MUNI (BAK)	HS 1	Twy A & Twy B Converge.
EVANSVILLE EVANSVILLE RGNL (EVV)	HS 1 HS 2	Twy G and Rwy 18–36, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering Twy G. Rwy 27 incursion risk at Twy A, ATC clearance required for taxi on rwy.
FORT WAYNE FORT WAYNE INTL (FWA)	HS 1	Short taxi distance from West Ramp when departing C2 int. Acft tend to miss turn onto TWY C from West Ramp.
LAFAYETTE PURDUE UNIVERSITY (LAF)	HS 1	Complex int at Twy B, Twy B3, Twy C in close proximity of rwy's.
	<b>MICHIGAN</b>	
ANN ARBOR ANN ARBOR MUNI (ARB)	HS 1 HS 2	Intersection of Twy A1/A not visible from the ctl twr. Twy A crosses turf Rwy 12–30.
DETROIT DETROIT METRO WAYNE CO (DTW)	HS 1	Int of Rwy 09L and Rwy 03L–21R. Acft taxiing east on Rwy 09L maint vigilance illuminated stop bar at Rwy 3L–21R hold short marking. Note: When Rwy 09L–27R is being used as a twy btn Rwy's 04R–22L and 03L–21R, green cntrln lghts and stop bars are illuminated.
FLINT BISHOP INTL (FNT)	HS 1 HS 2	Twy C crosses Rwy 18–36. Manage taxi speed and be prepared to hold short. Acft exiting the de-icing pad are on Twy C and in very close proximity to Rwy 09–27.
GRAND RAPIDS GERALD R FORD INTL (GRR)	HS 1 HS 2 HS 3	Twy A, Twy M, High Speed Twy A2 near Rwy 08R–26L – risk of pilot confusion on wide pavement resulting in rwy incursions. Twy A, Twy F, Twy B, High Speed Twy A1 near Rwy 08R–26L – risk of pilot confusion on wide pavement resulting in rwy incursions. Twy B, Twy V, High Speed Twy B4 near Rwy 17–35 – risk of pilot confusion resulting in rwy incursions.
KALAMAZOO KALAMAZOO/BATTLE CREEK INTL (AZO)	HS 1	Complex int of Rwy 05, Twy A and Twy D.
LANSING CAPITAL REGION INTL (LAN)	HS 1 HS 2	Twy C int Twy B; pilots miss the rgt turn onto Twy B and enter Rwy 10R–28L. Twy M int Twy B, short taxi dist fr Trml Ramp to Rwy 10R–28L.
MUSKEGON MUSKEGON CO (MKG)	HS 1	Twy A at Rwy 14–32 hold short line is non-standard.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>OHIO</b>		
AKRON		
AKRON-CANTON RGNL (CAK)	HS 1	ILS hold short line close proximity to transient parking ramp.
	HS 2	Twy C rwy holding position marking east of Rwy 01-19 used to hold acft for both Rwy 01-19 and Rwy 05-23.
	HS 3	Hold short lines on Twy K between Rwy 01-19 and Rwy 05-23 are nearly co-located.
CINCINNATI		
CINCINNATI MUNI/LUNKEN FLD (LUK)	HS 1	Tfc on Twy C must receive ATC clearance to cross Rwy 03L apch area.
	HS 2	Twy A crosses Rwy 21R. Be prepared to hold short.
	HS 3	Departing acft on Rwy 21L can expect to hold short of Rwy 25 on Twy A.
	HS 4	Pedestrians and vehicles prohibited from departing terminal ramp area without ATC authorization.
CLEVELAND		
BURKE LAKEFRONT (BKL)	HS 1	Short taxi distance from the ramp to Rwy 06 L/R. Twy Alpha sign often missed.
COLUMBUS		
JOHN GLENN COLUMBUS INTL (CMH)	HS 1	Area not visible from the twr.
COLUMBUS		
OHIO STATE UNIVERSITY (OSU)	HS 1	When holding short of Rwy 09R, acft must clear Rwy 05 hold short line on Twy A, west of Rwy 05.
	HS 2	Rwy 05 hold short line close proximity to west ramp on Twy A.
	HS 3	Wrong rwy departure risk: Unusual geometry at Rwy 27R, Rwy 23, Twy C and Twy F int; Rwy 23 thld is beyond Rwy 27R on Twy F southbound.
DAYTON		
JAMES M COX DAYTON INTL (DAY)	HS 1	Acft taxiing from Twy D, with a left turn on Rwy 36, destined for Twy H sometimes miss the turn onto Twy H and enter Rwy 06R-24L.
YOUNGSTOWN/WARREN		
YOUNGSTOWN/WARREN RGNL (YNG)	HS 1	Twy H and Rwy 05-23, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering Twy H.
<b>WISCONSIN</b>		
APPLETON		
APPLETON INTL (ATW)	HS 1	Twy A, Twy B and Twy C meet in a complex intersection.
JANESVILLE		
SOUTHERN WISCONSIN RGNL (JVL)	HS 1	Rwy 32 and Rwy 36 apch ends are closely aligned and may be confused when lining up for departure.
KENOSHA		
KENOSHA RGNL (ENW)	HS 1	Int of Twy D and Twy E is very close to a hi concentration of rwy crossings and is not visible fr the twr.
LA CROSSE		
LA CROSSE RGNL (LSE)	HS 1	Rwy 36 hold position set back on Twy C.
	HS 2	Twy A3, Twy A and Twy B complex int in close proximity to rwys.
MADISON		
DANE CO RGNL/TRUAX FLD (MSN)	HS 1	Closely aligned Rwy – Rwy 36 and Rwy 03 at Twy A4.
	HS 2	Pilots exiting Rwy 18-36 on Twy C sometimes miss the hold short for Rwy 03-21.
MOSINEE		
CENTRAL WISCONSIN (CWA)	HS 1	Wrong rwy departure risk. Rwy 08 departure sometime confuse Rwy 17 as the departing rwy. Rwy 17-35 used to taxi to full len on Rwy 08.
OSHKOSH		
WITTMAN RGNL (OSH)	HS 1	Int of Twy C1, Twy C, Twy A, Twy A1, Twy J.

22251

## AIRPORT DIAGRAM

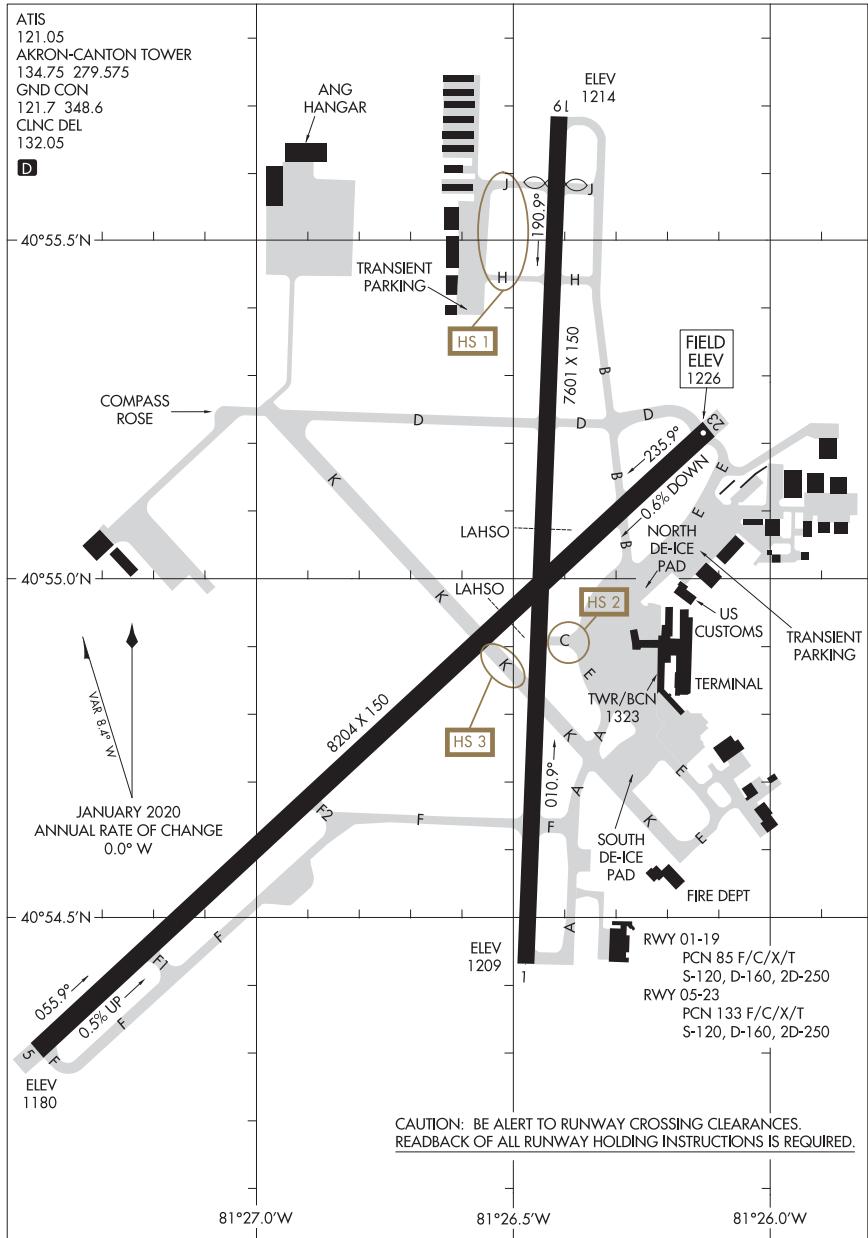
AI-6 (FAA)

AKRON FULTON INTL (AKR)  
AKRON, OHIO

22139

## AIRPORT DIAGRAM

AL-638 (FAA)

AKRON-CANTON RGNL (CAK)  
AKRON, OHIO

## AIRPORT DIAGRAM

22139

AKRON, OHIO  
AKRON-CANTON RGNL (CAK)

22251

## AIRPORT DIAGRAM

ATIS \*  
 120.675 327.05  
 ALPENA TOWER \*  
 121.35 318.1  
 GND CON  
 121.9 275.8

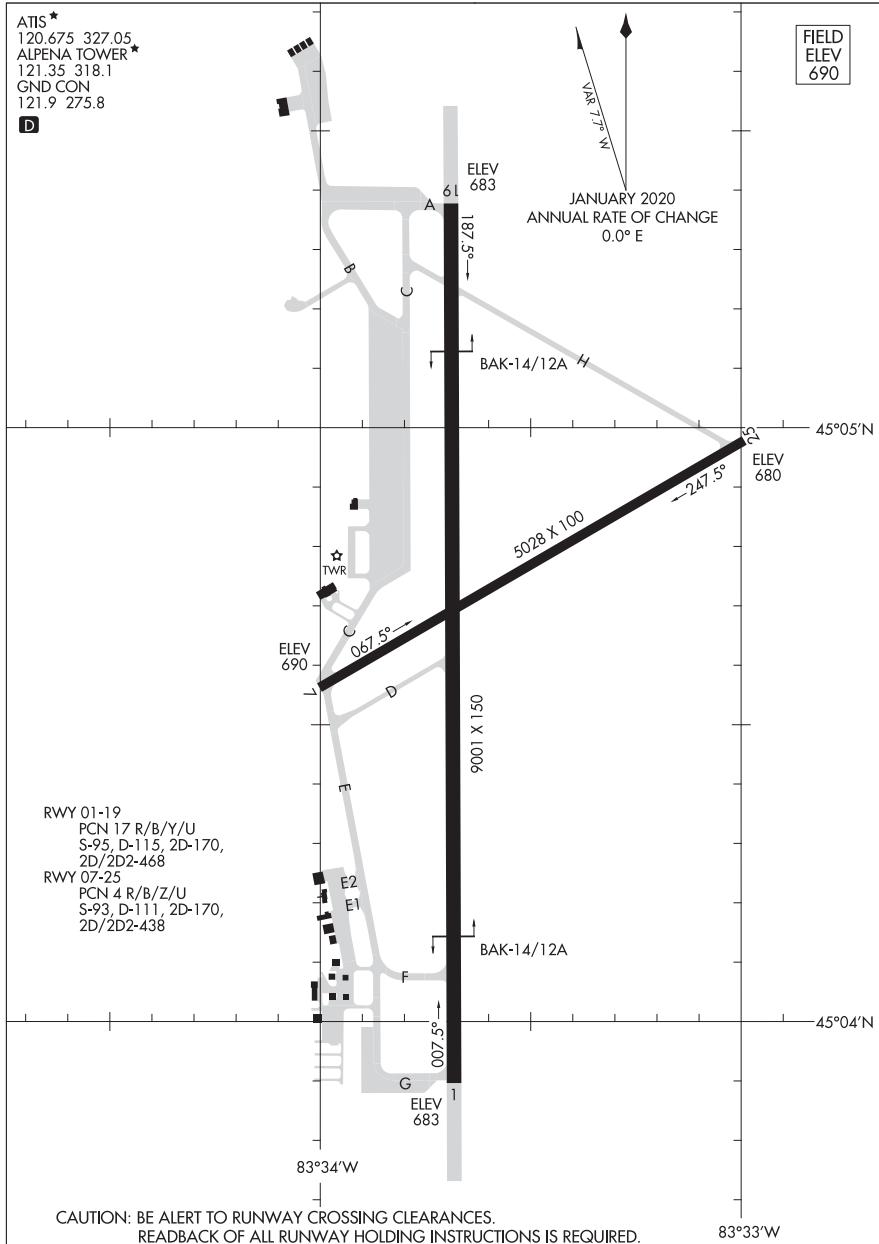
D

AL-718 (FAA)

ALPENA COUNTY RGNL (APN)

ALPENA, MICHIGAN

FIELD  
ELEV  
690



## AIRPORT DIAGRAM

22251

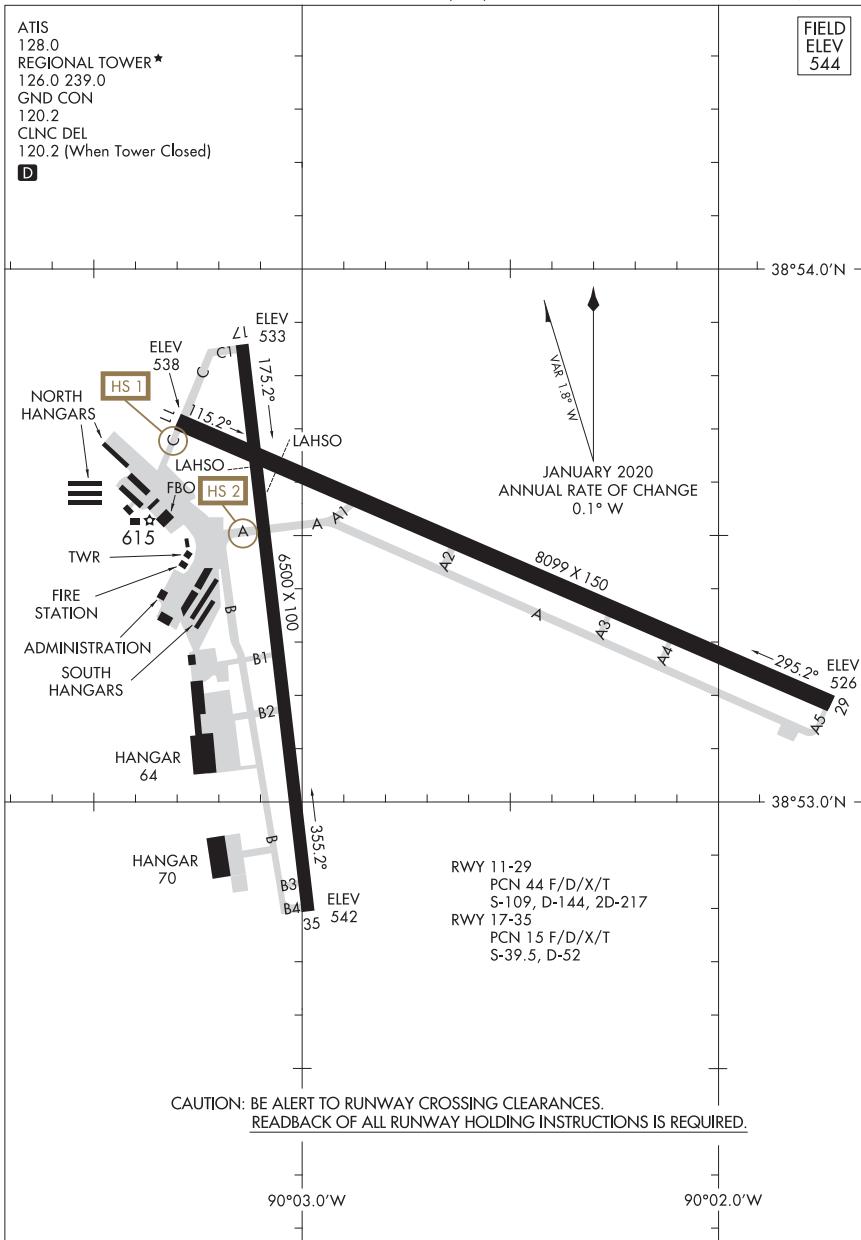
ALPENA, MICHIGAN

ALPENA COUNTY RGNL (APN)

22251

## AIRPORT DIAGRAM

AL-5178 (FAA)

ST LOUIS RGNL (ALN)  
ALTON/ST. LOUIS, ILLINOIS

## AIRPORT DIAGRAM

22251

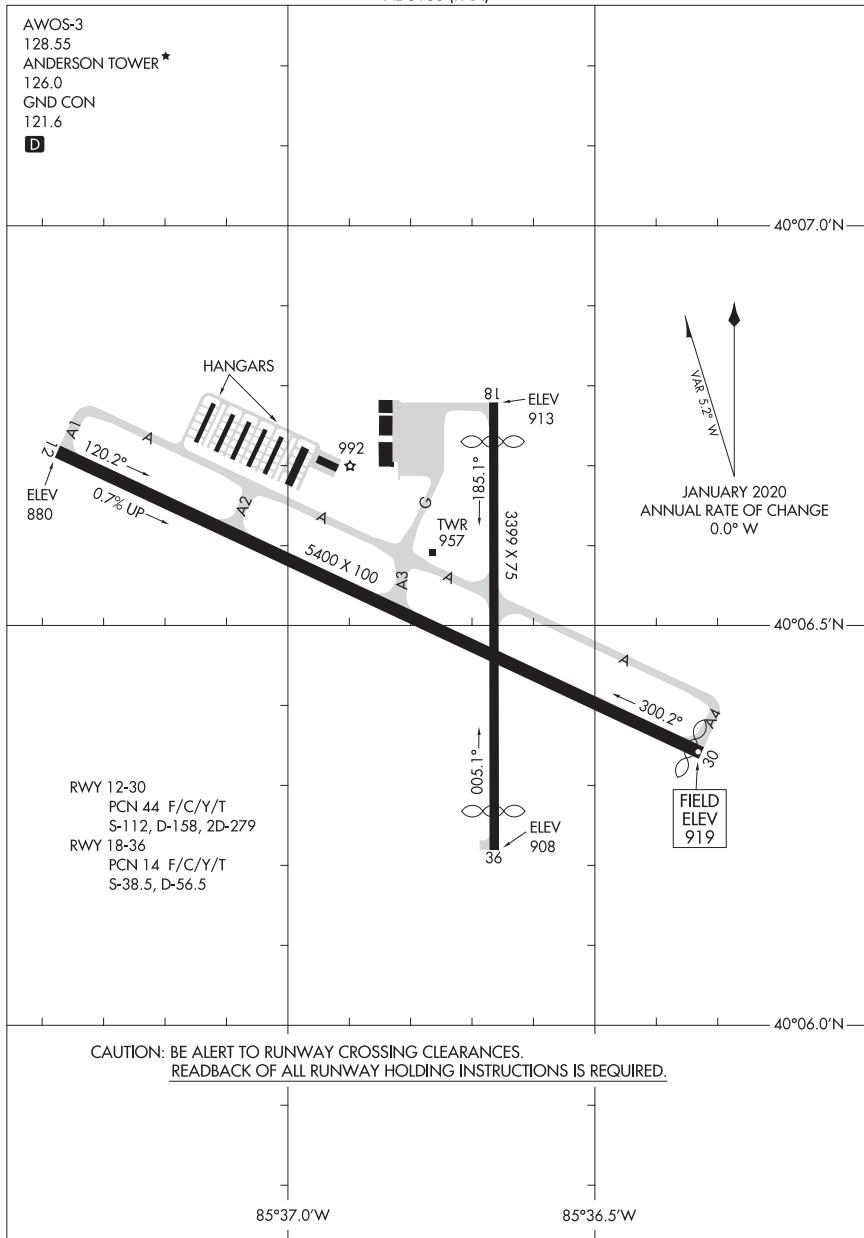
ALTON/ST. LOUIS, ILLINOIS  
ST LOUIS RGNL (ALN)

23054

## AIRPORT DIAGRAM

ANDERSON MUNI-DARLINGTON FLD (AID)  
AL-5133 (FAA)

ANDERSON, INDIANA



## AIRPORT DIAGRAM

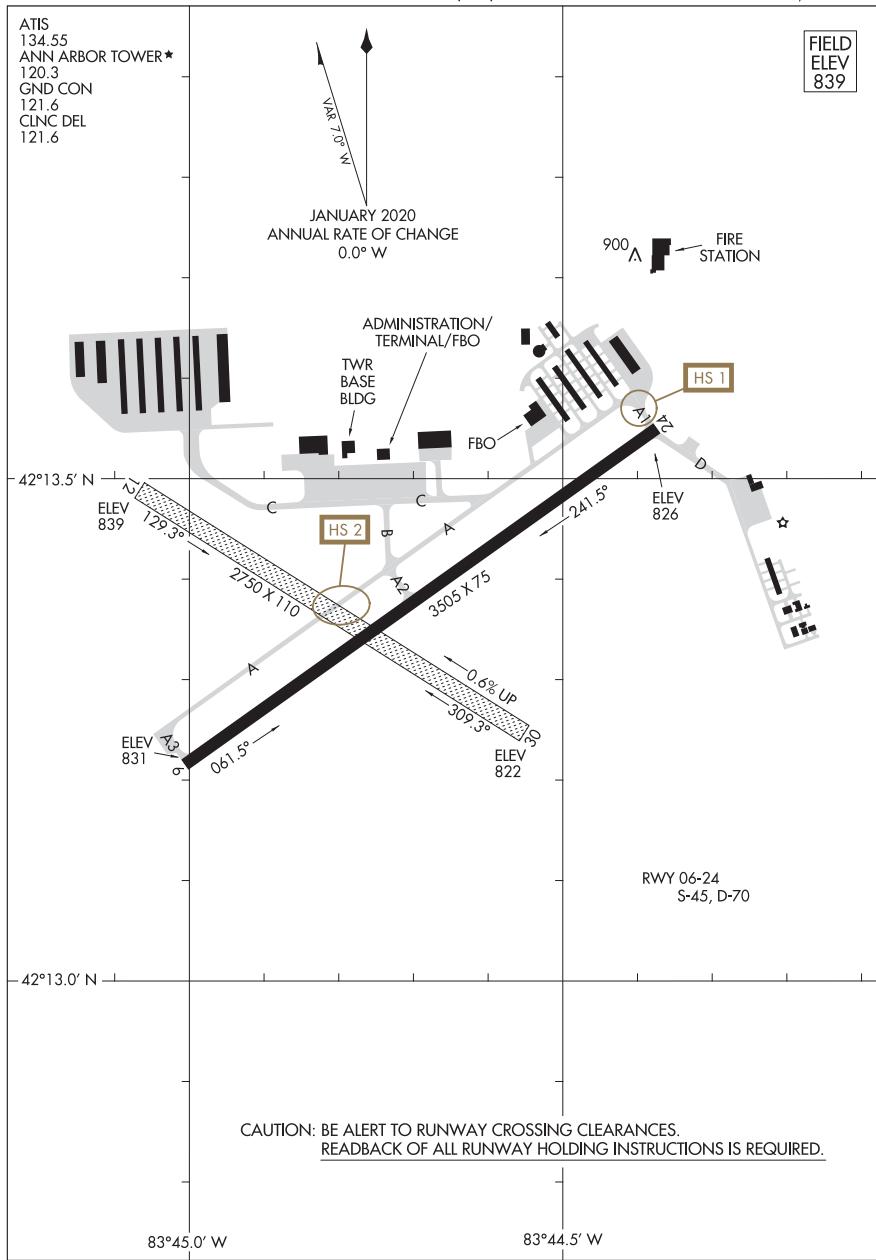
23054

ANDERSON, INDIANA  
ANDERSON MUNI-DARLINGTON FLD (AID)

20086

## AIRPORT DIAGRAM

AL-5506 (FAA)

ANN ARBOR MUNI (ARB)  
ANN ARBOR, MICHIGAN

## AIRPORT DIAGRAM

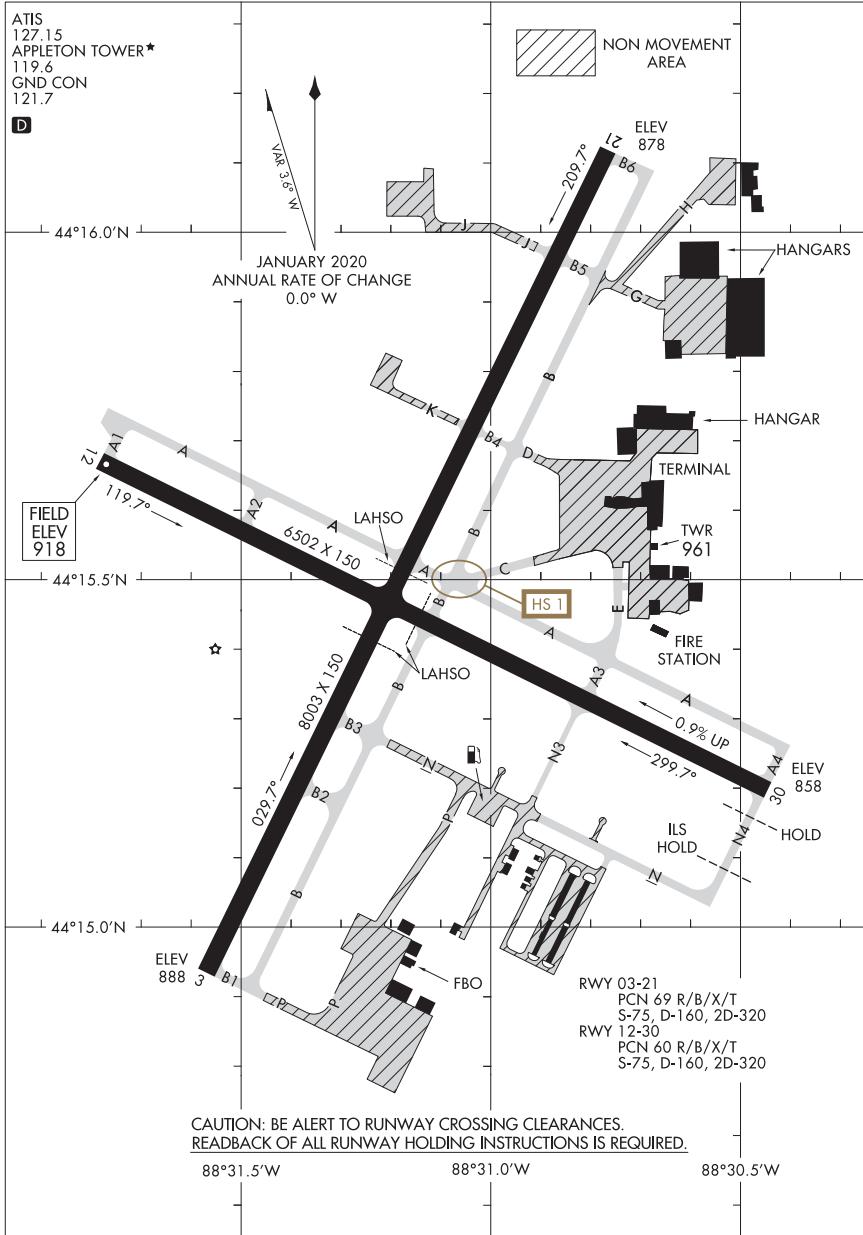
20086

ANN ARBOR, MICHIGAN  
ANN ARBOR MUNI (ARB)

22139

## AIRPORT DIAGRAM

AL-5216 (FAA)

APPLETON INTL (ATW)  
APPLETON, WISCONSIN

## AIRPORT DIAGRAM

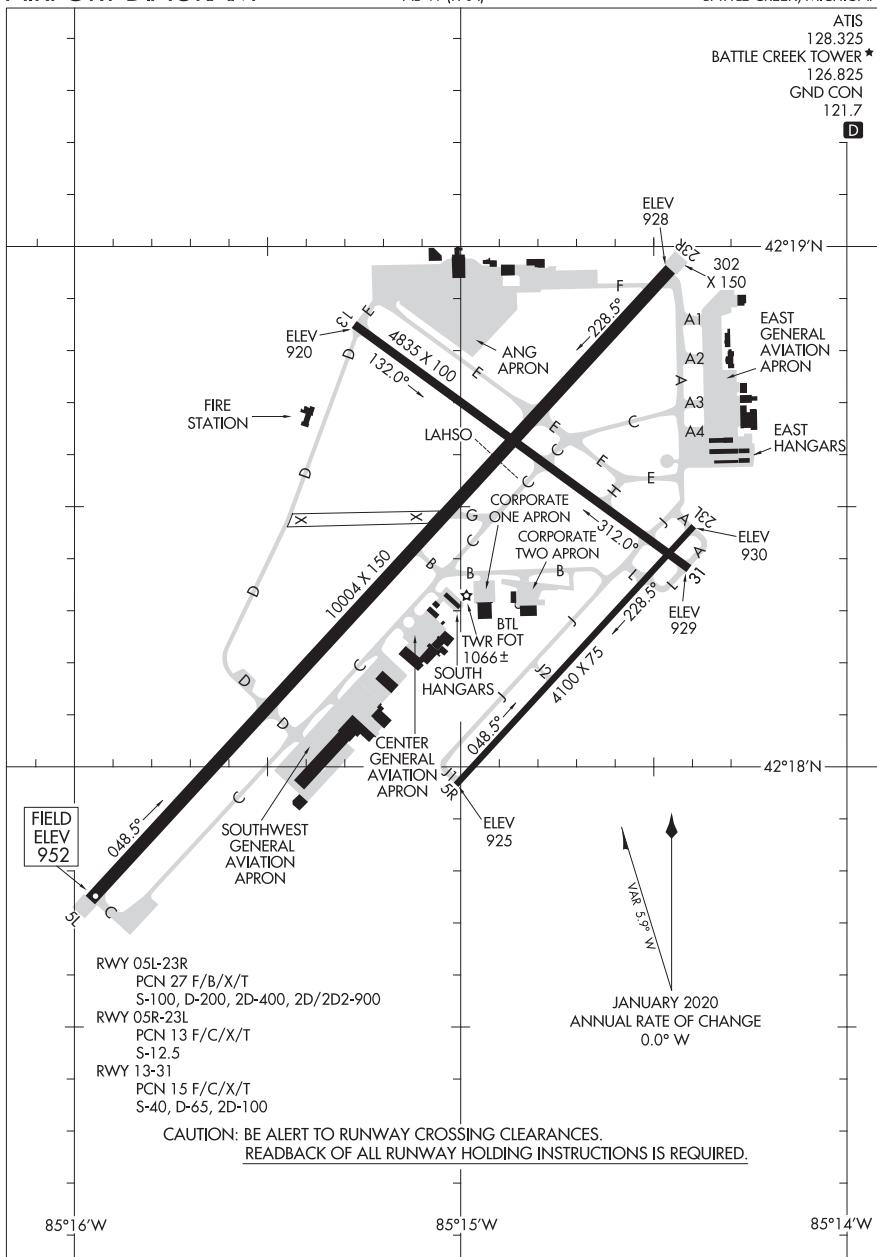
22139

APPLETON, WISCONSIN  
APPLETON INTL (ATW)

23334

## AIRPORT DIAGRAM

AI-41 (FAA)

BATTLE CREEK EXEC AT KELLOGG FLD (BTL)  
BATTLE CREEK, MICHIGAN

## AIRPORT DIAGRAM

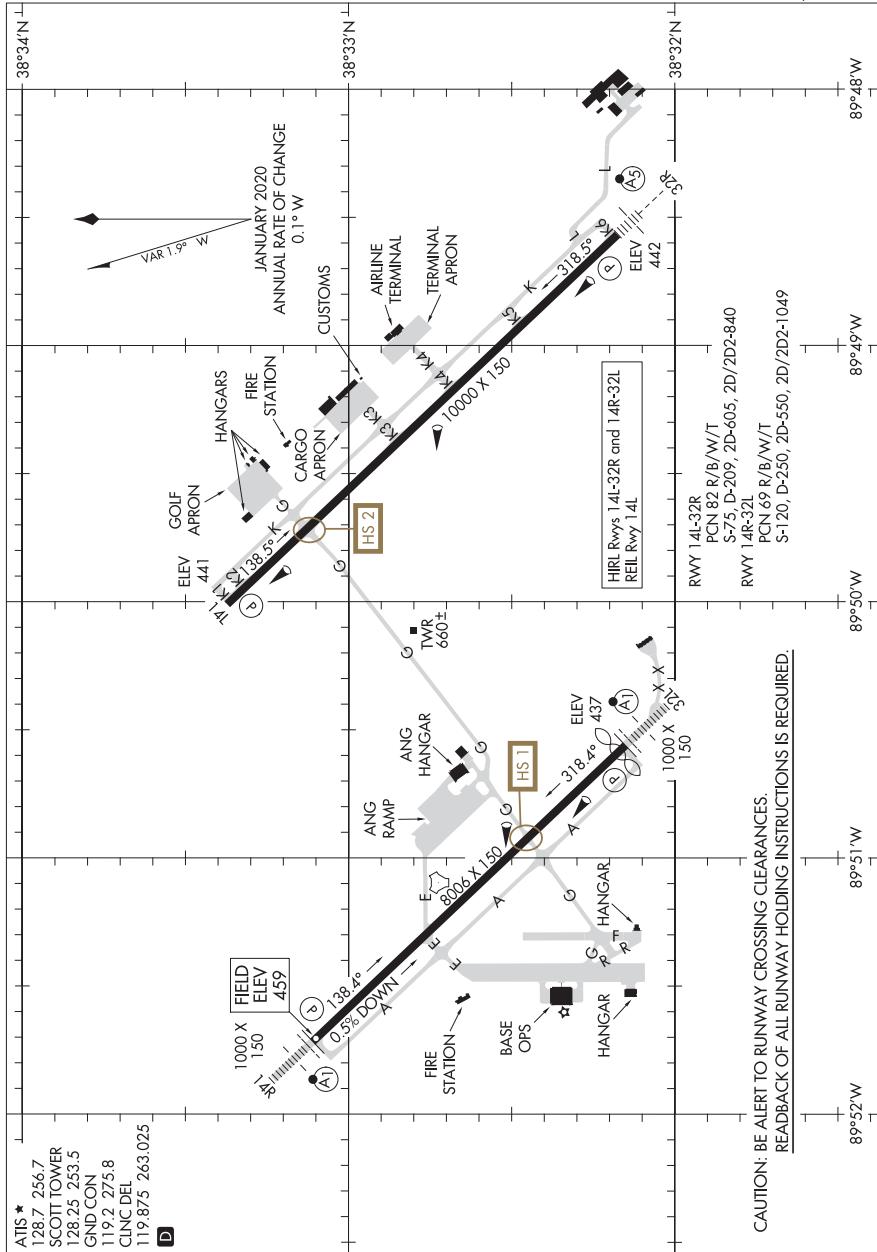
23334

BATTLE CREEK, MICHIGAN  
BATTLE CREEK EXEC AT KELLOGG FLD (BTL)

## AIRPORT DIAGRAMS

23334

## AIRPORT DIAGRAM



## AIRPORT DIAGRAM

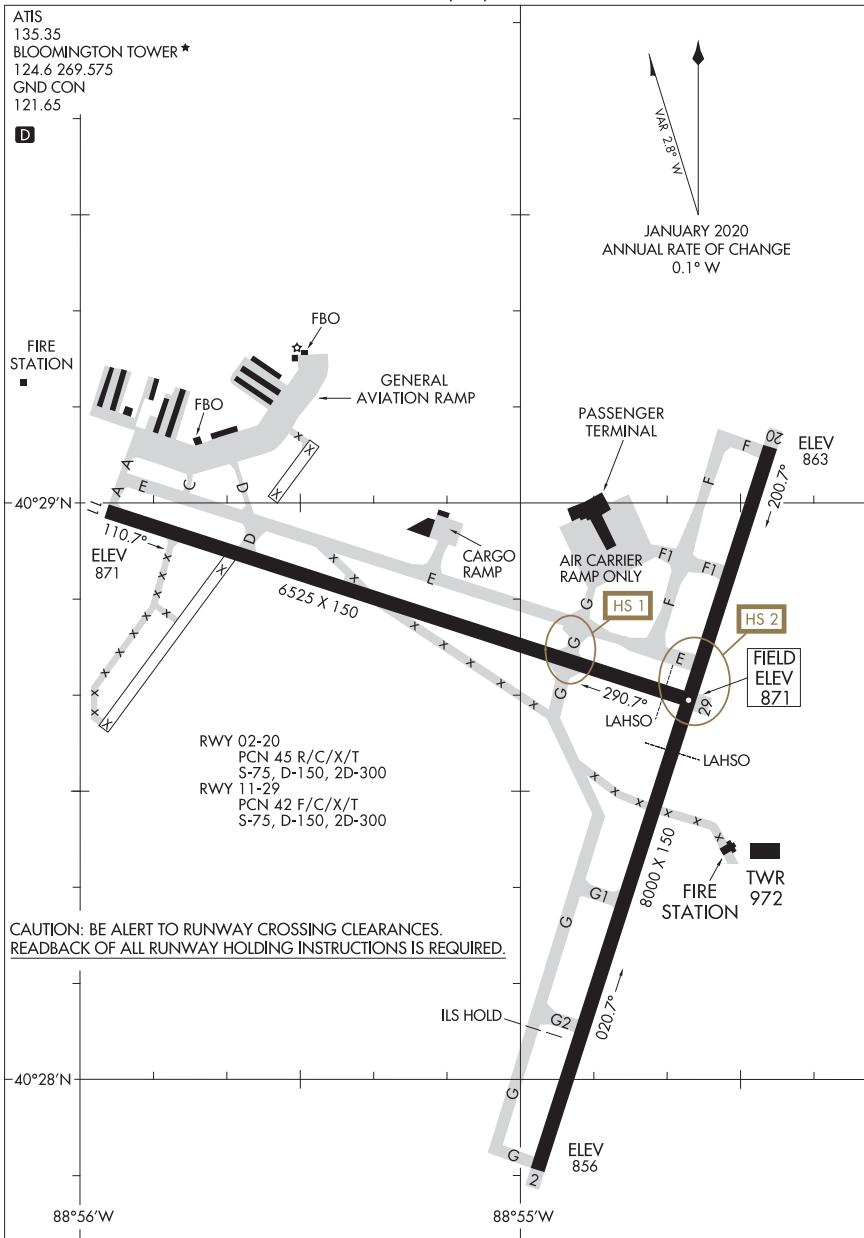
23334

BELLEVILLE, ILLINOIS  
SCOTT AFB/MIDAMERICA ST LOUIS (BLV)

22139  
**AIRPORT DIAGRAM**

CENTRAL IL RGNL/BLOOMINGTON-NORMAL (BMI)  
 AL-5058 (FAA)

BLOOMINGTON, ILLINOIS



22139  
**AIRPORT DIAGRAM**

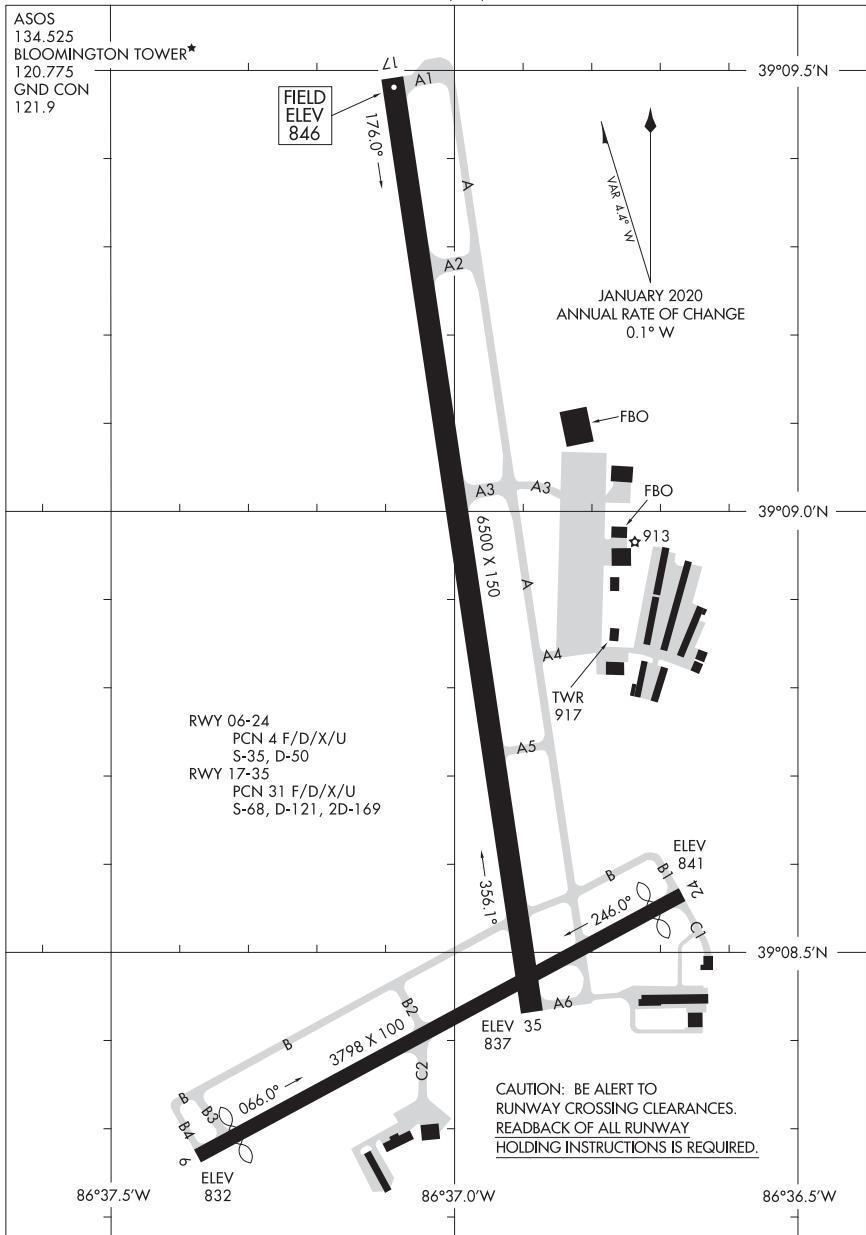
BLOOMINGTON, ILLINOIS

CENTRAL IL RGNL/BLOOMINGTON-NORMAL (BMI)

22307

## AIRPORT DIAGRAM

AL-5168 (FAA)

MONROE COUNTY (BMG)  
BLOOMINGTON, INDIANA

## AIRPORT DIAGRAM

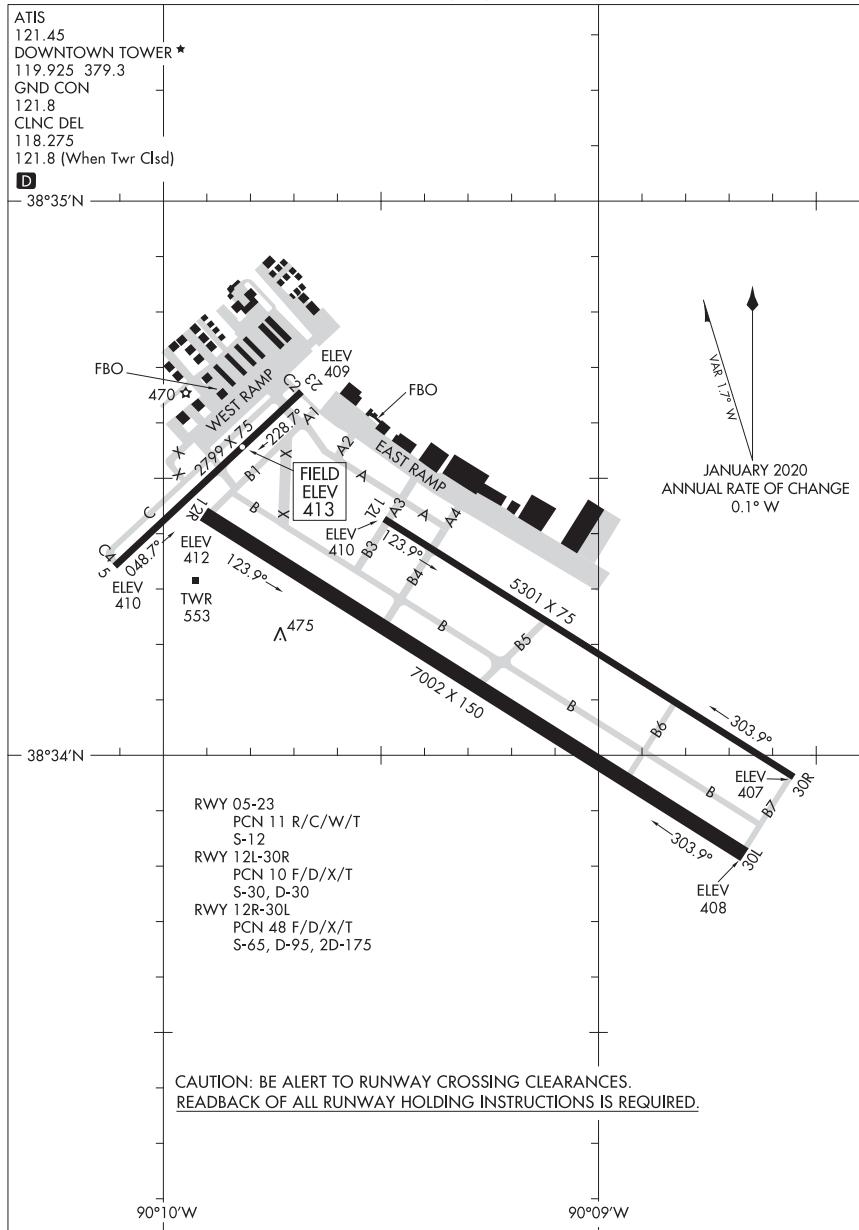
22307

BLOOMINGTON, INDIANA  
MONROE COUNTY (BMG)

21168

## AIRPORT DIAGRAM

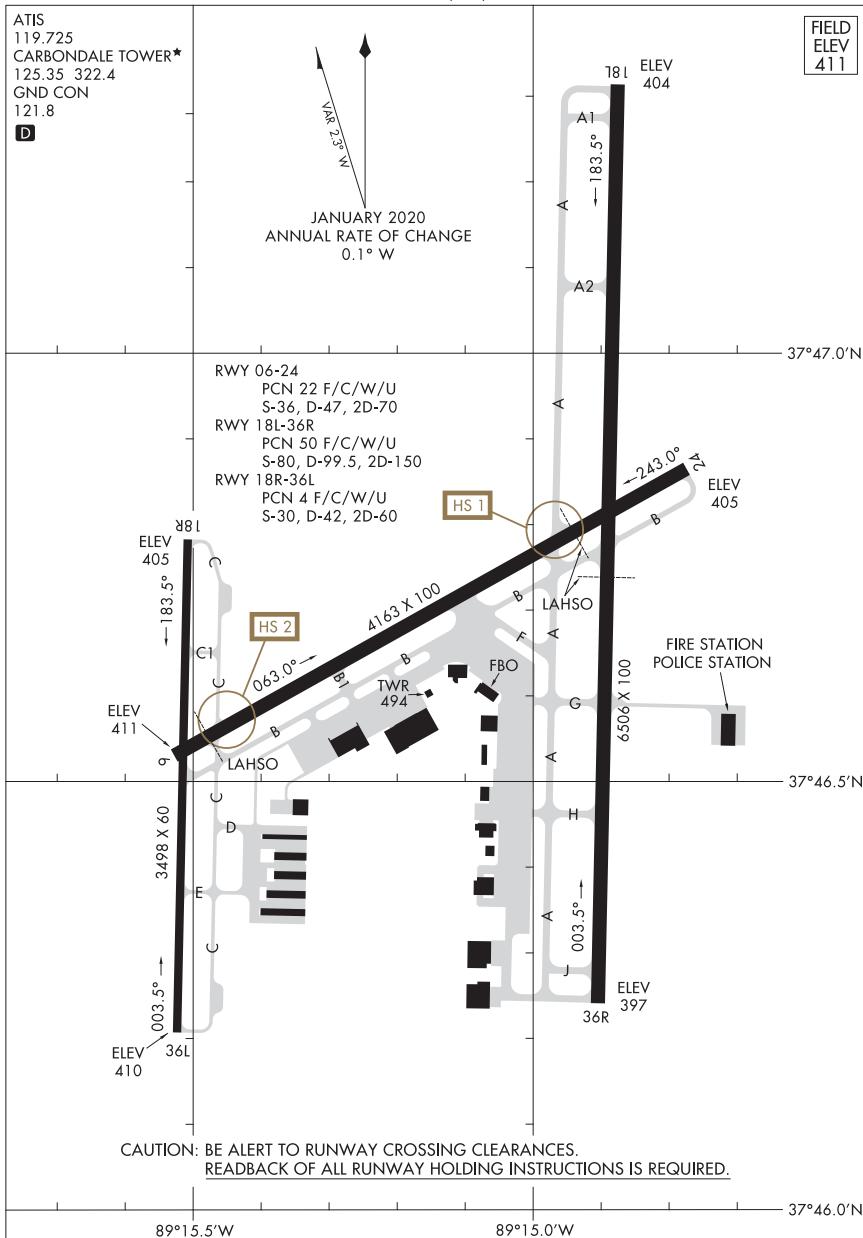
AI-5316 (FAA)

ST LOUIS DOWNTOWN (CPS)  
CAHOKIA/ST. LOUIS, ILLINOIS

22083

## AIRPORT DIAGRAM

AL-5091 (FAA)

SOUTHERN ILLINOIS (MDH)  
CARBONDALE-MURPHYSBORO, ILLINOIS

## AIRPORT DIAGRAM

22083

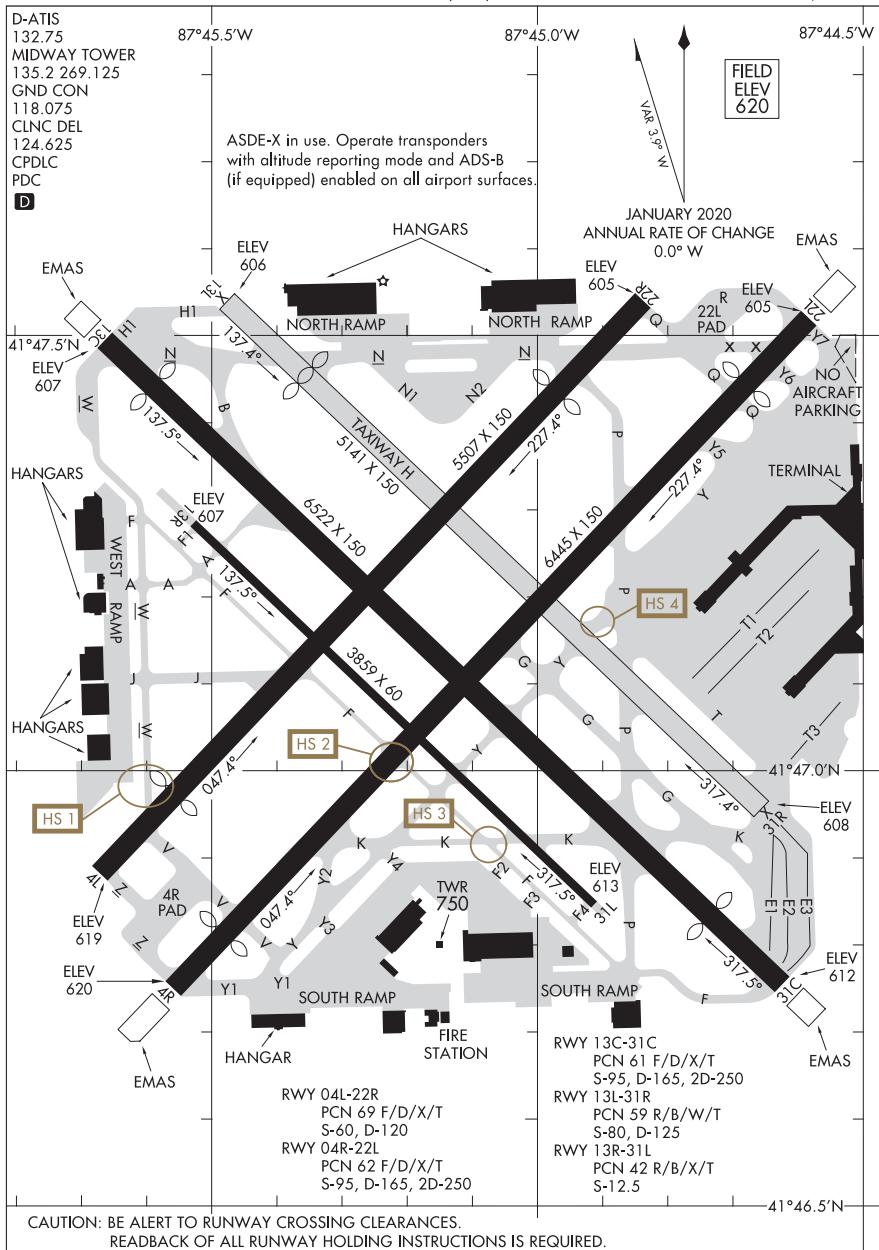
CARBONDALE-MURPHYSBORO, ILLINOIS  
SOUTHERN ILLINOIS (MDH)



23278

## AIRPORT DIAGRAM

AL-81 (FAA)

CHICAGO MIDWAY INTL (MDW)  
CHICAGO, ILLINOIS

## AIRPORT DIAGRAM

23278

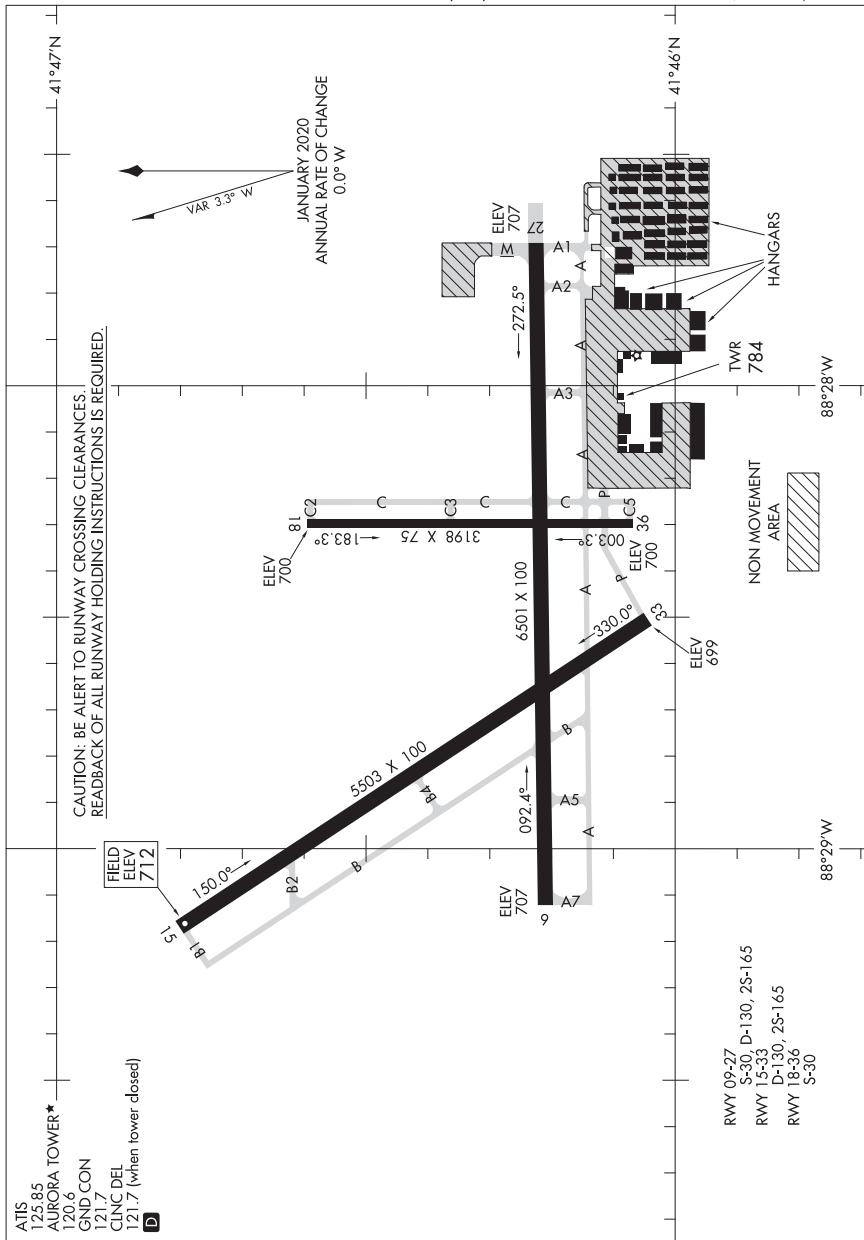
CHICAGO, ILLINOIS  
CHICAGO MIDWAY INTL (MDW)



22139

## AIRPORT DIAGRAM

AL-5103 (FAA)

AURORA MUNI (ARR)  
CHICAGO/AURORA, ILLINOIS

## AIRPORT DIAGRAM

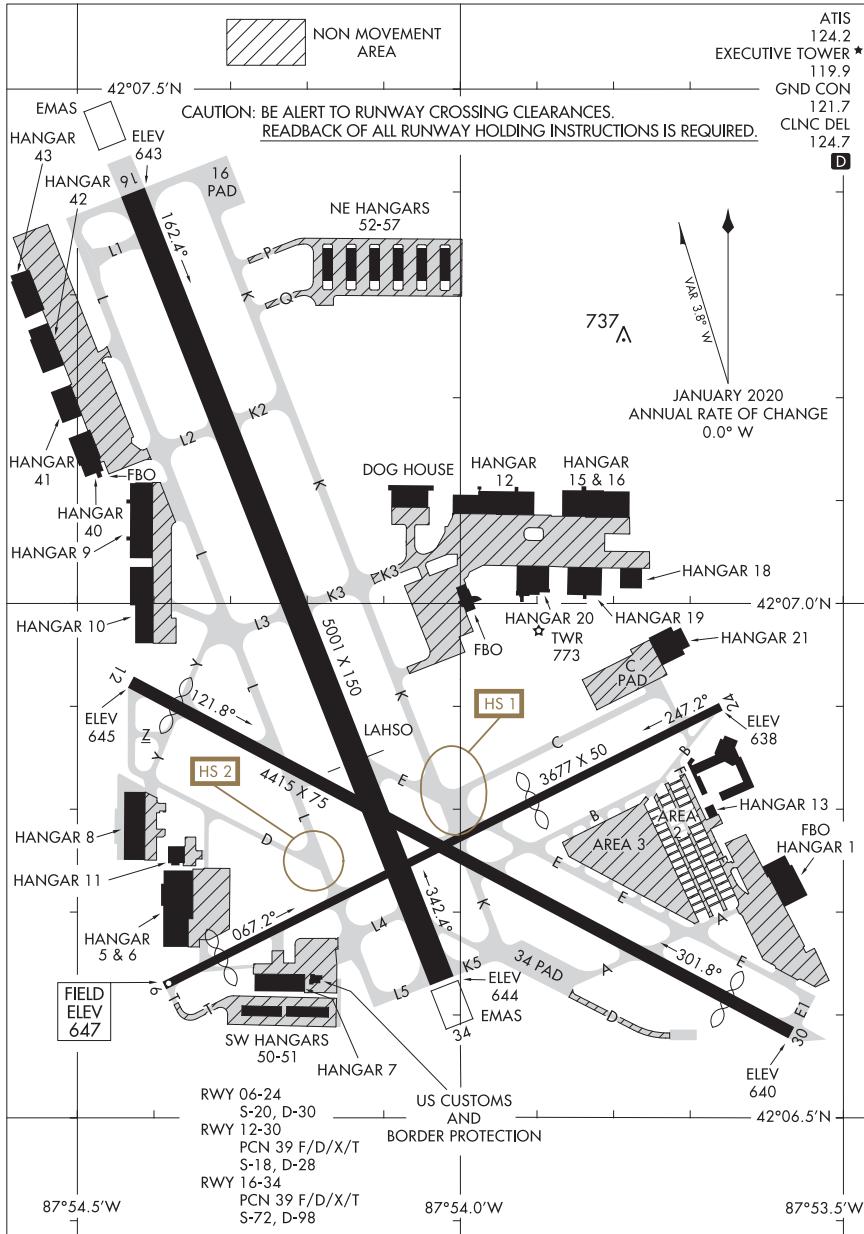
22139

CHICAGO/AURORA, ILLINOIS  
AURORA MUNI (ARR)

22307

## AIRPORT DIAGRAM

CHICAGO EXEC (PWK)  
AL-5028 (FAA) CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS



## AIRPORT DIAGRAM

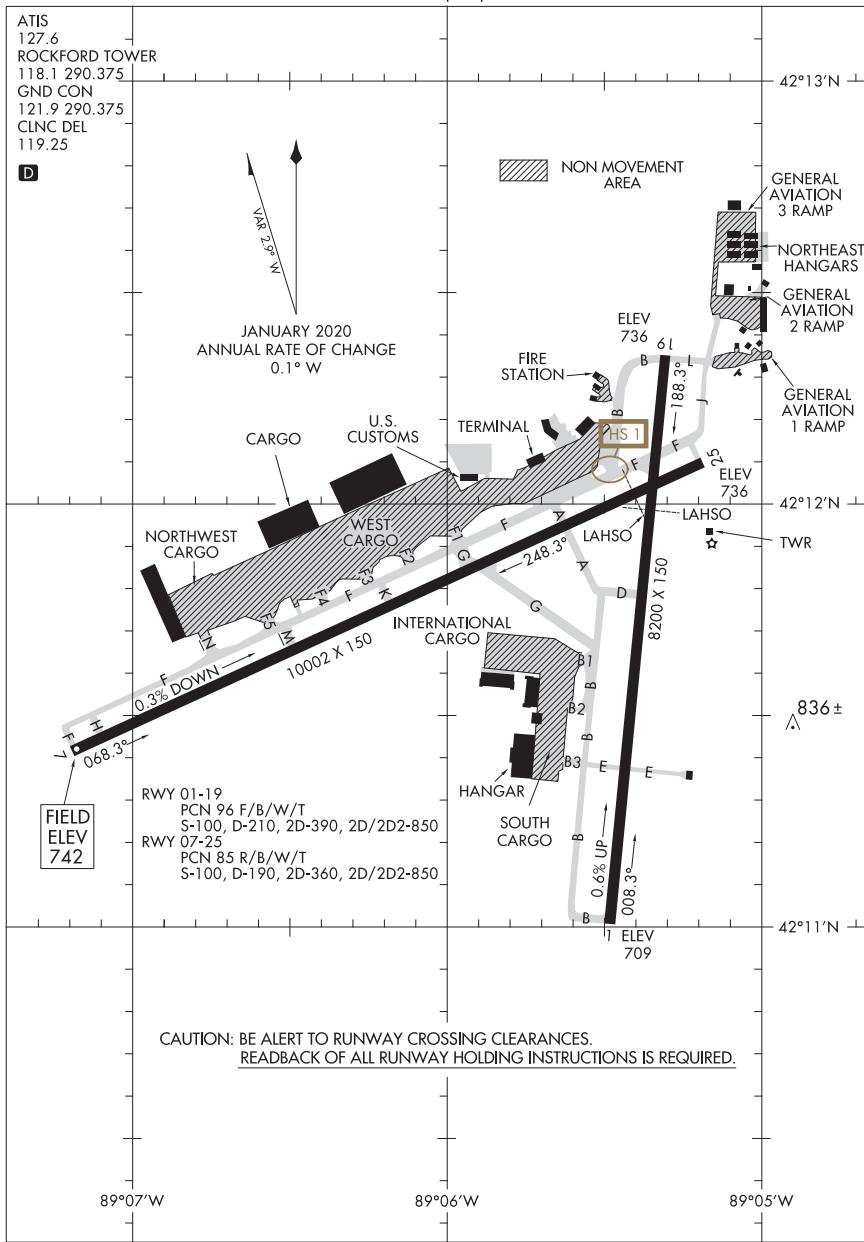
22307

CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS  
**CHICAGO EXEC (PWK)**

22139

## AIRPORT DIAGRAM

AL-954 (FAA)

CHICAGO/ROCKFORD INTL (RFD)  
CHICAGO/ROCKFORD, ILLINOIS

## AIRPORT DIAGRAM

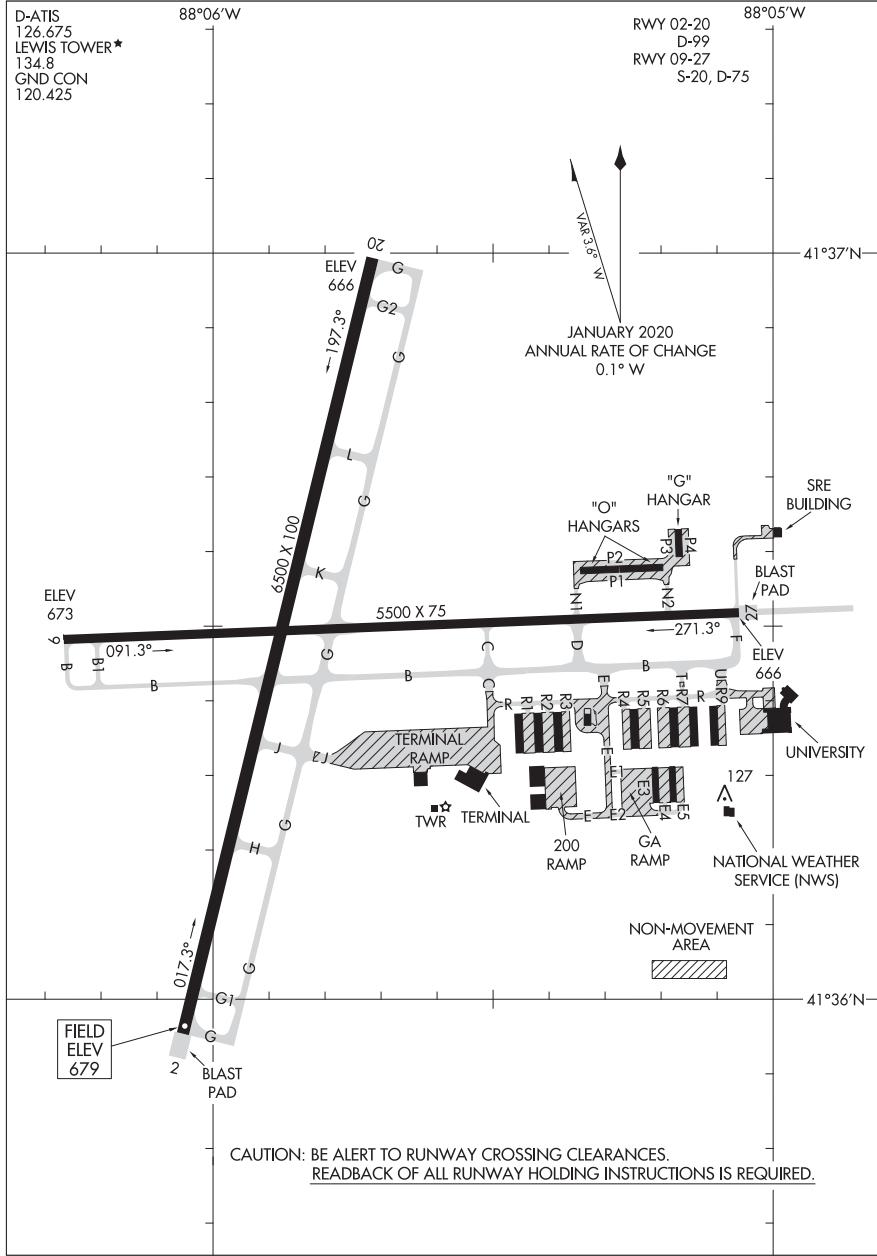
22139

CHICAGO/ROCKFORD, ILLINOIS  
CHICAGO/ROCKFORD INTL (RFD)

23054

## AIRPORT DIAGRAM

AL-6063 (FAA)

LEWIS UNIVERSITY (LOT)  
CHICAGO/ROMEOVILLE, ILLINOIS

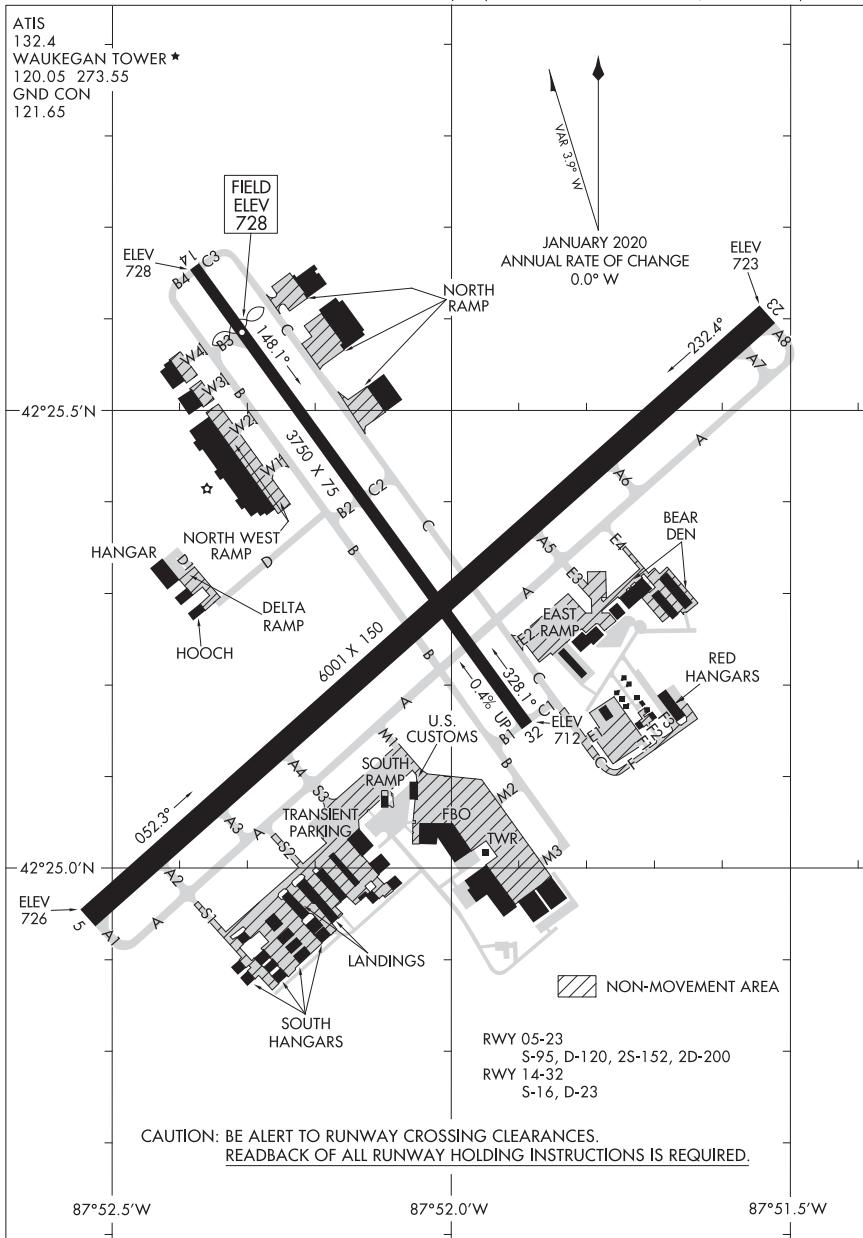
AIRPORT DIAGRAM

23054

21280

## AIRPORT DIAGRAM

AL-5324 (FAA)

WAUKEGAN NTL (UGN)  
CHICAGO/WAUKEGAN, ILLINOIS

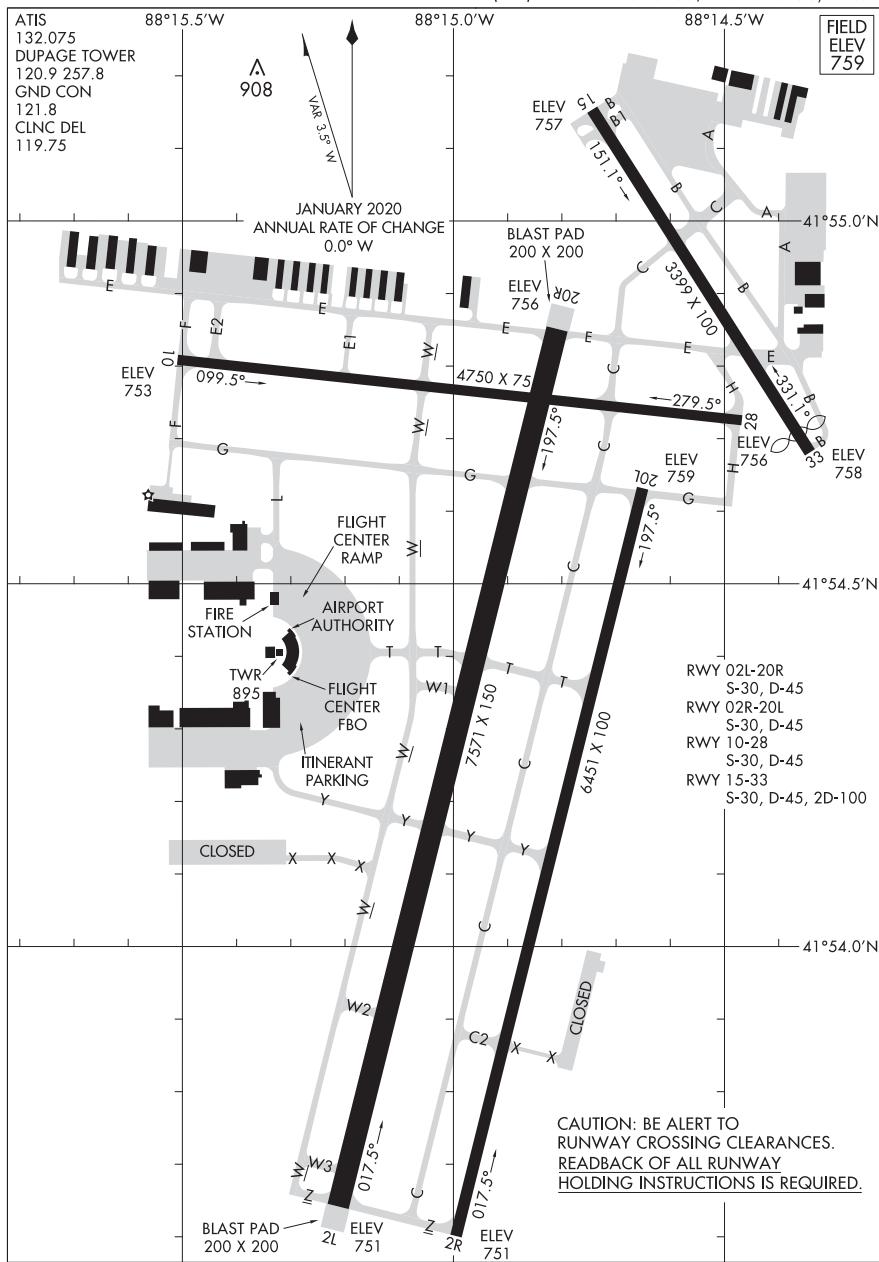
## AIRPORT DIAGRAM

21280

CHICAGO/WAUKEGAN, ILLINOIS  
WAUKEGAN NTL (UGN)

21336

## AIRPORT DIAGRAM



## AIRPORT DIAGRAM

21336

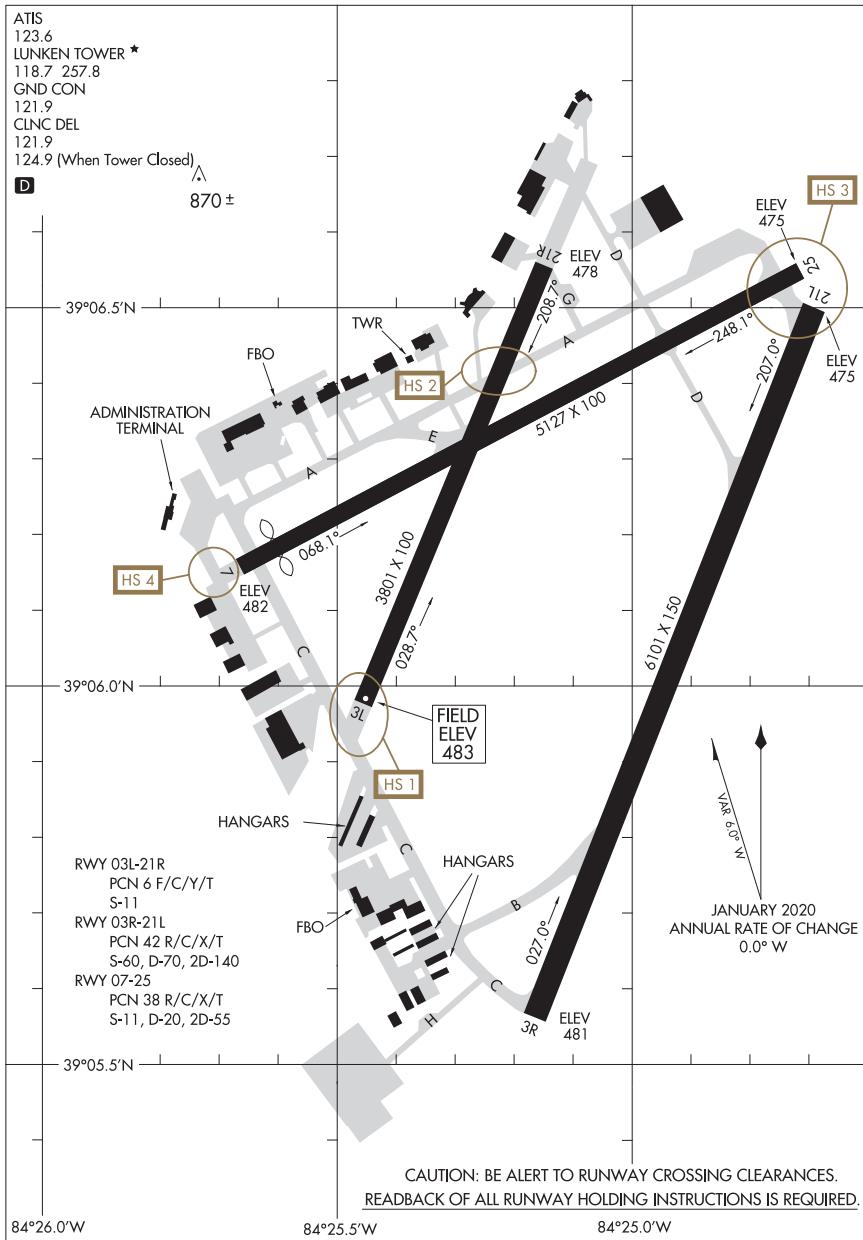
CHICAGO/WEST CHICAGO, ILLINOIS

DUPAGE (DPA)

23166

## AIRPORT DIAGRAM

AL-83 (FAA)

CINCINNATI MUNI/LUNKEN FLD (LUK)  
CINCINNATI, OHIO

## AIRPORT DIAGRAM

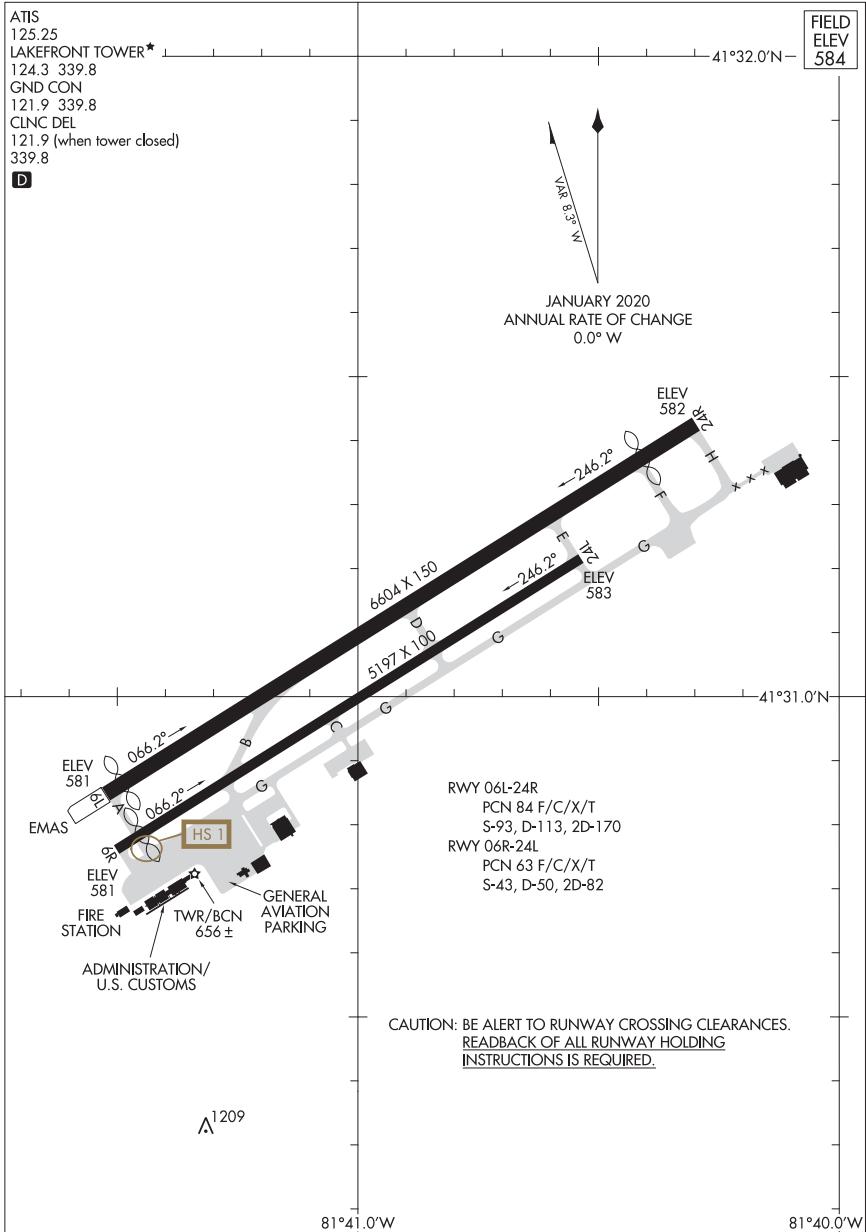
23166

CINCINNATI, OHIO  
CINCINNATI MUNI/LUNKEN FLD (LUK)

22307

## AIRPORT DIAGRAM

AL-5370 (FAA)

BURKE LAKEFRONT (BKL)  
CLEVELAND, OHIO

## AIRPORT DIAGRAM

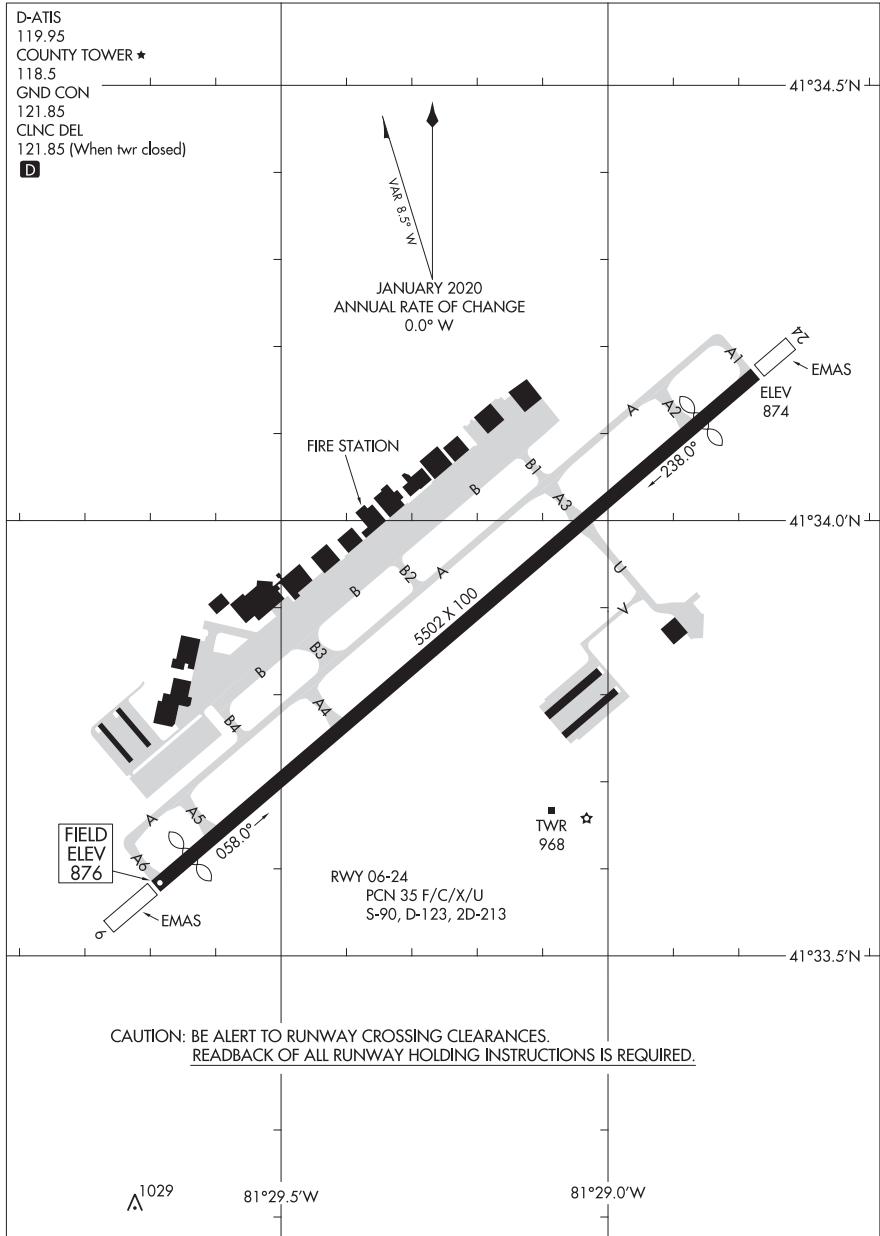
22307

CLEVELAND, OHIO  
BURKE LAKEFRONT (BKL)

23278

## AIRPORT DIAGRAM

AL-5027 (FAA)

CUYAHOGA COUNTY (CGF)  
CLEVELAND, OHIO

## AIRPORT DIAGRAM

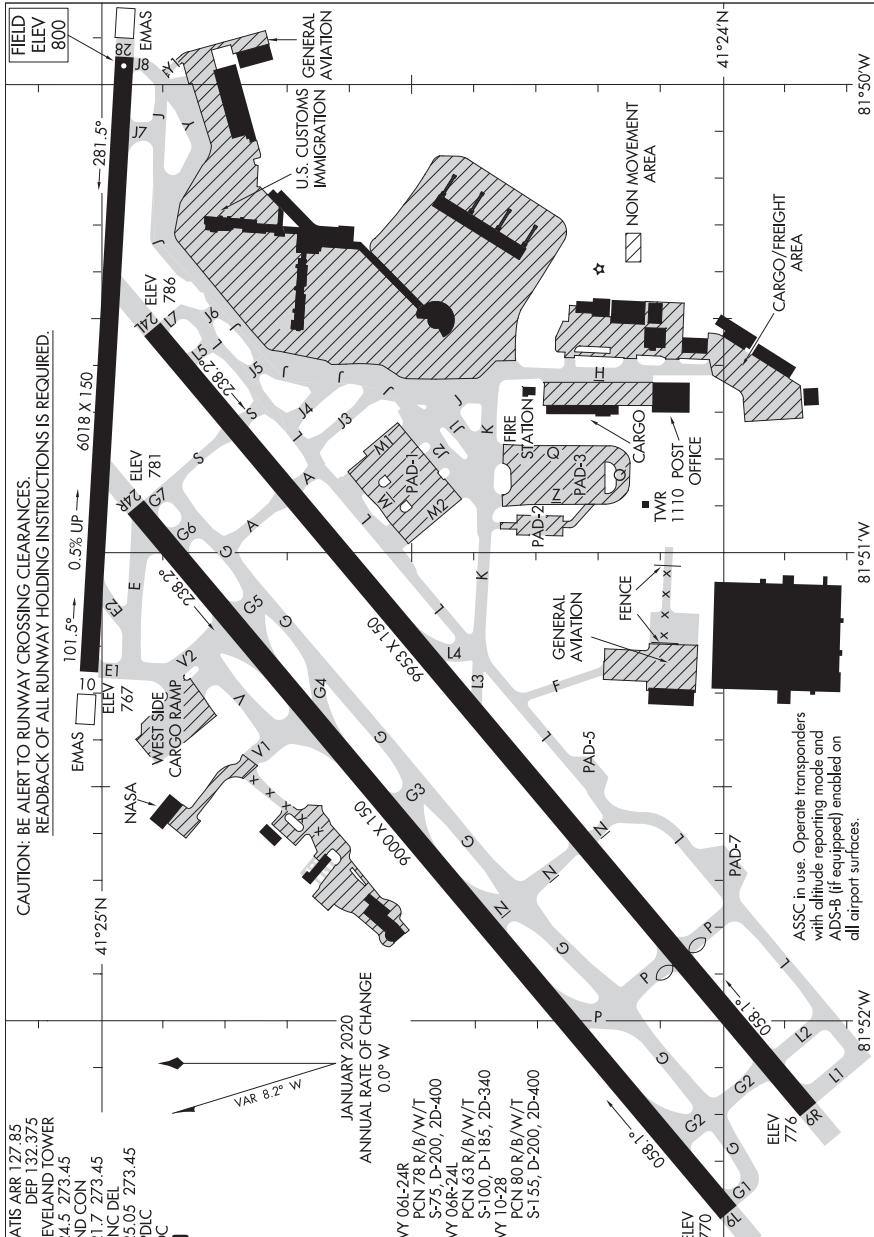
23278

CLEVELAND, OHIO  
CUYAHOGA COUNTY (CGF)

22027  
**AIRPORT DIAGRAM**

AL-84 (FAA)

CLEVELAND-HOPKINS INT'L (CLE)  
CLEVELAND, OHIO



# AIRPORT DIAGRAM

22027

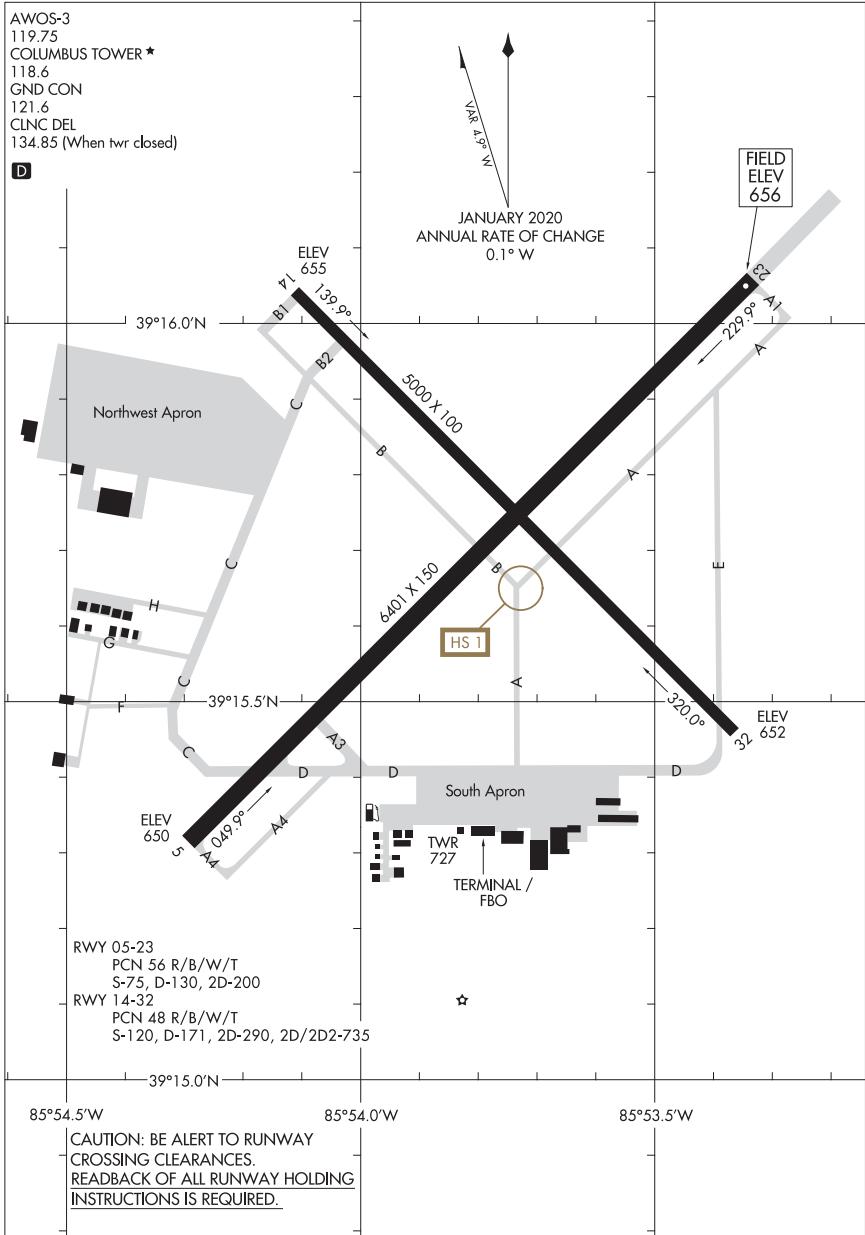
22027

CLEVELAND, OHIO  
CLEVELAND-HOPKINS INTL (CLE)

20366

## AIRPORT DIAGRAM

AL-594 (FAA)

COLUMBUS MUNI (BAK)  
COLUMBUS, INDIANA

AIRPORT DIAGRAM

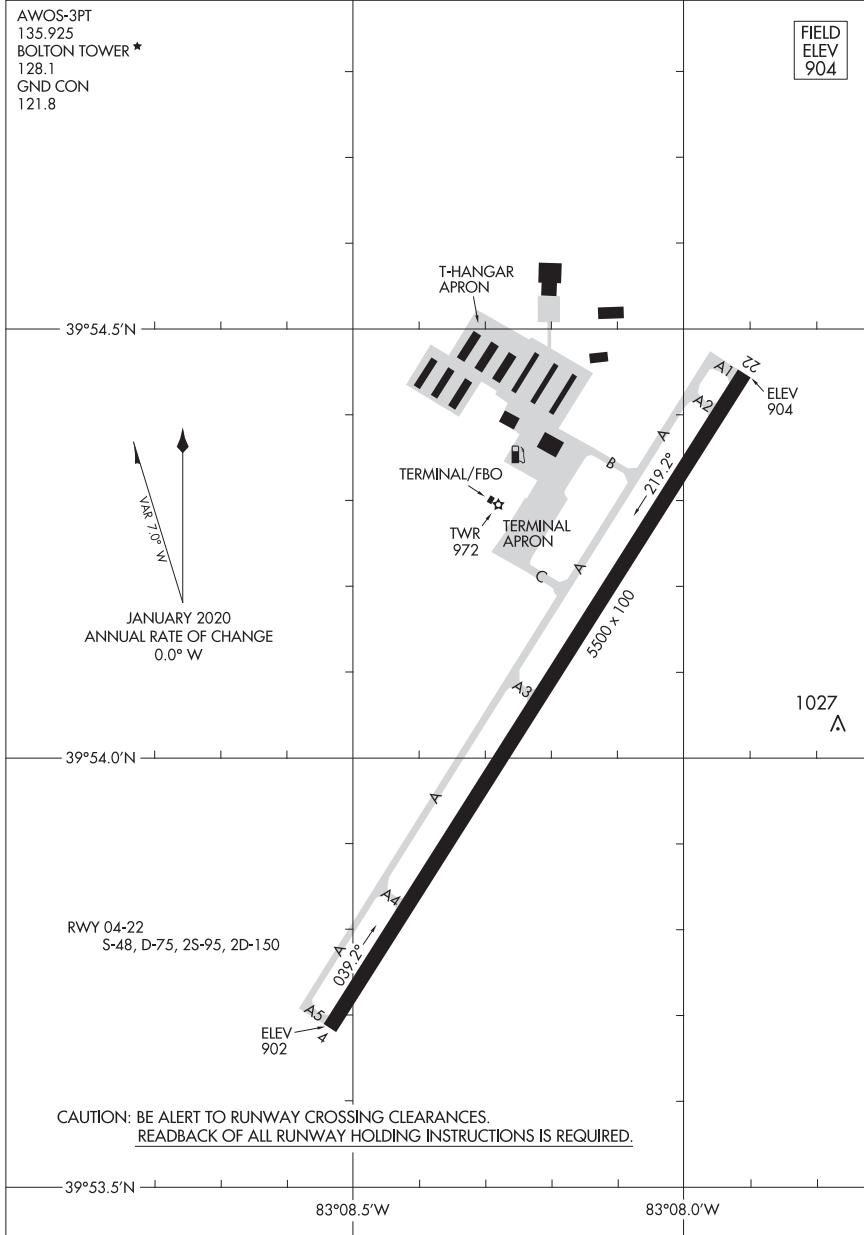
20366

COLUMBUS, INDIANA  
COLUMBUS MUNI (BAK)

23166

## AIRPORT DIAGRAM

AL-5958 (FAA)

BOLTON FLD (TZR)  
COLUMBUS, OHIO

## AIRPORT DIAGRAM

23166

COLUMBUS, OHIO  
BOLTON FLD (TZR)

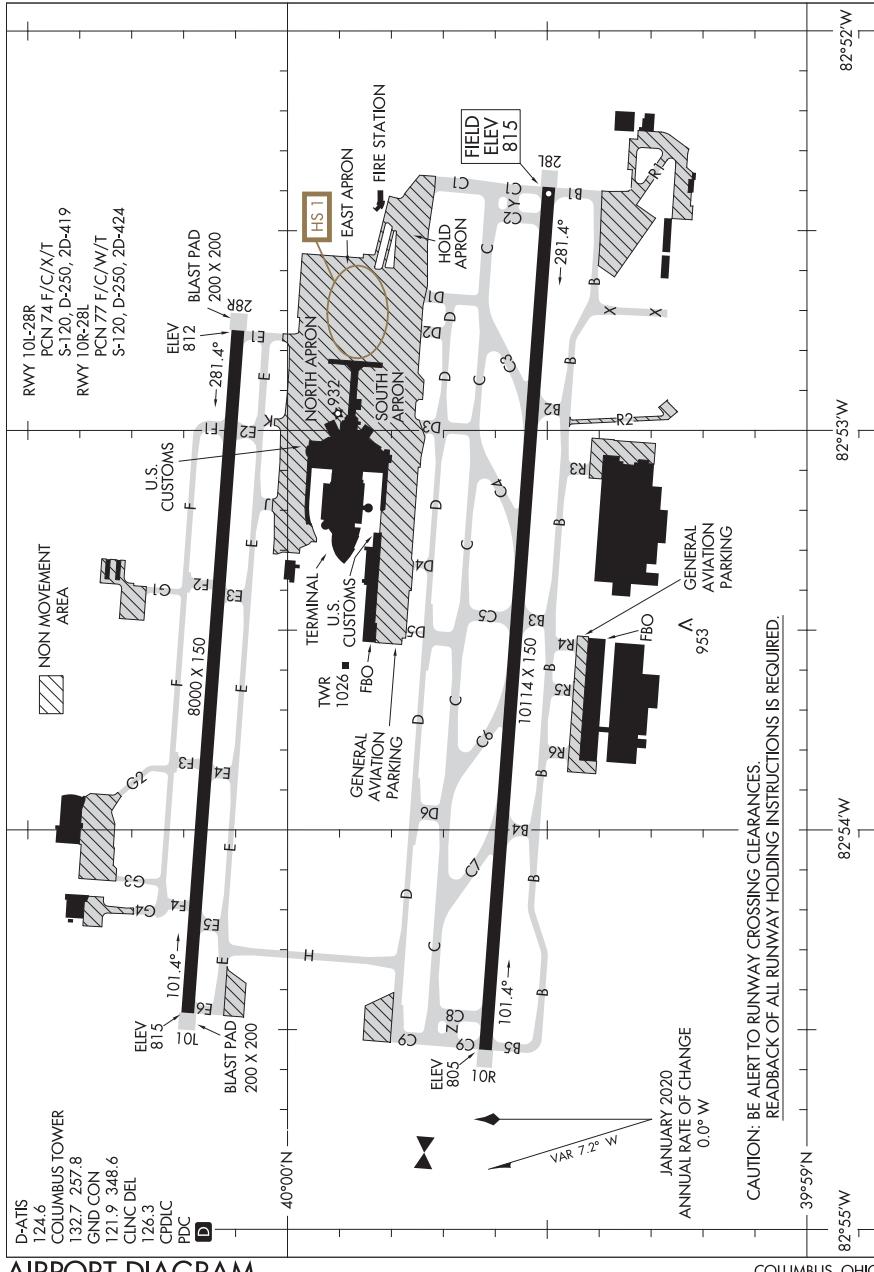
## AIRPORT DIAGRAMS

22195

# AIRPORT DIAGRAM

AL-94 (FAA)

**JOHN GLENN COLUMBUS INTL (CMH)**  
**COLUMBUS, OHIO**



## AIRPORT DIAGRAM

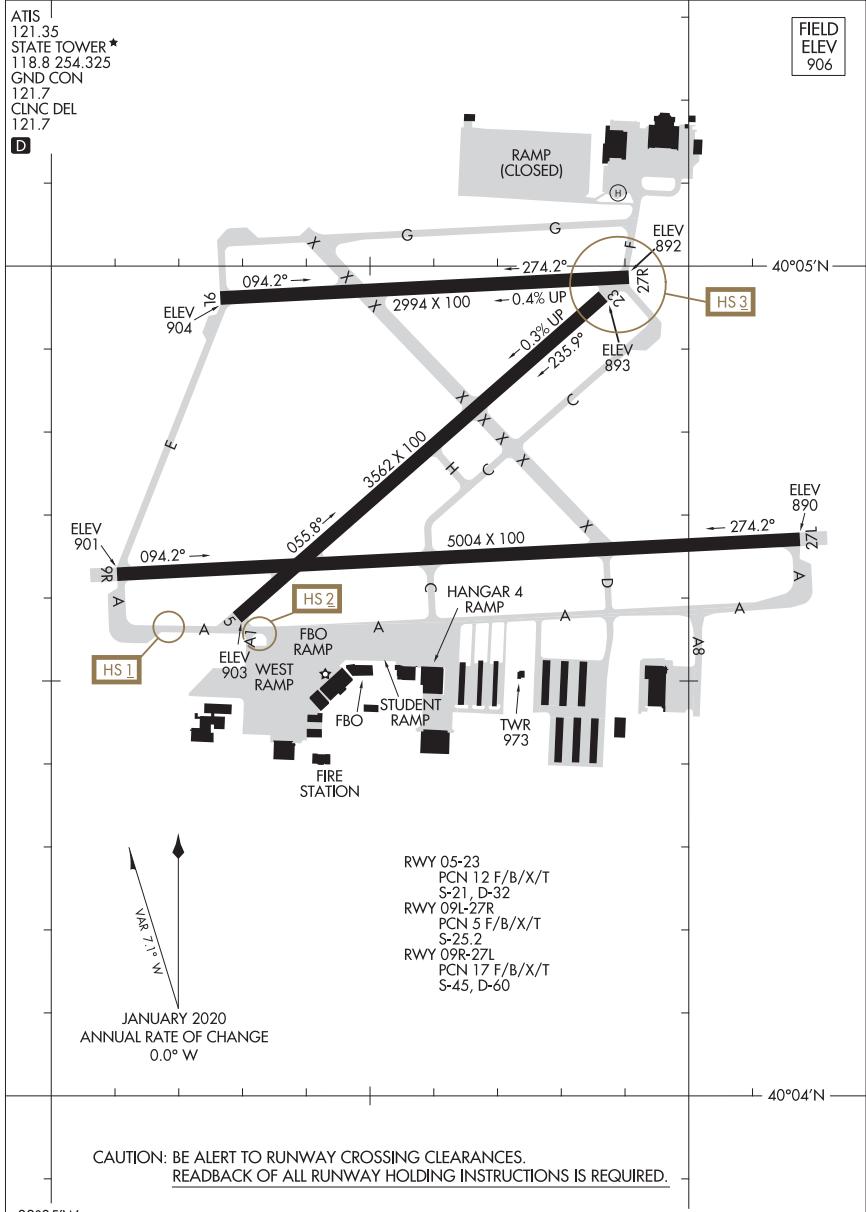
22195

COLUMBUS, OHIO

20254

## AIRPORT DIAGRAM

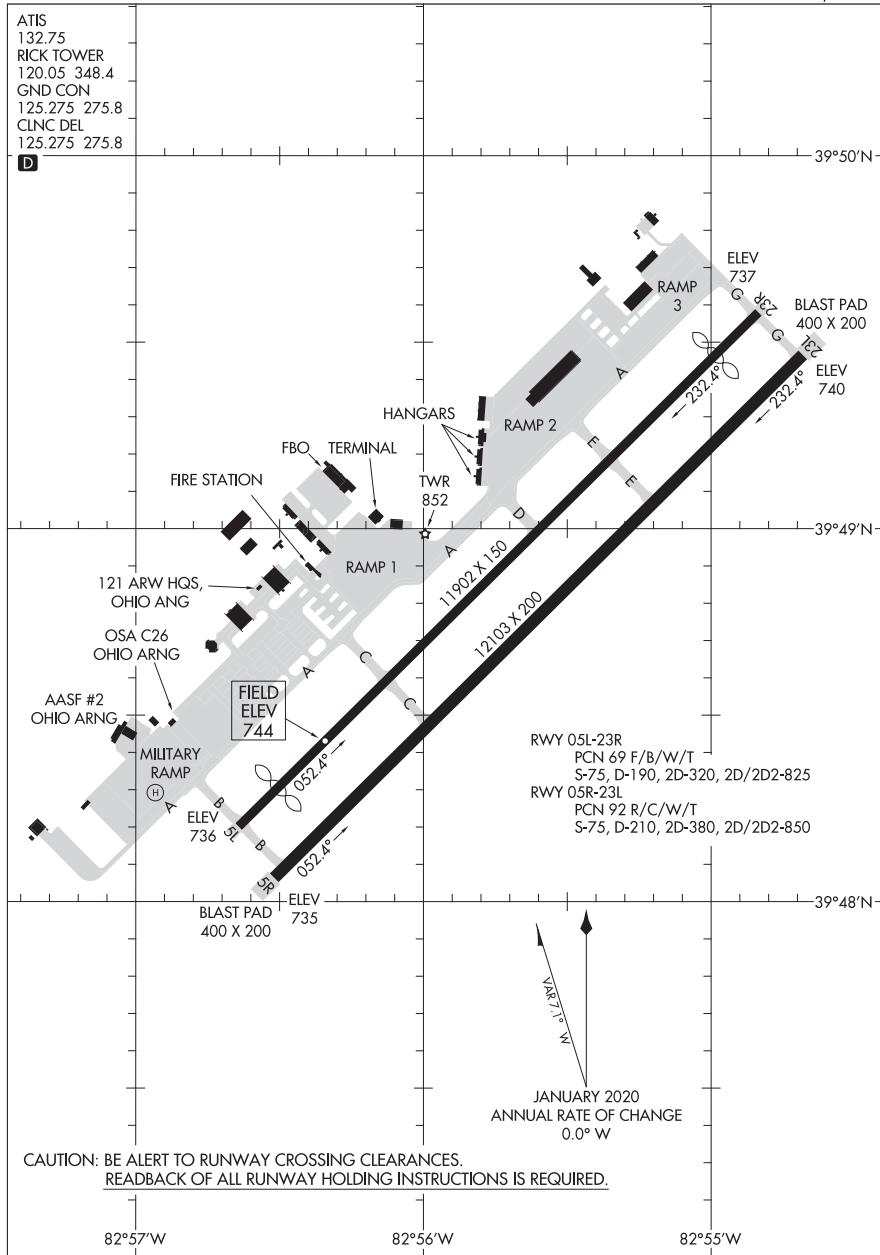
AL-5387 (FAA)

OHIO STATE UNIVERSITY (OSU)  
COLUMBUS, OHIOAIRPORT DIAGRAM  
20254COLUMBUS OHIO  
OHIO STATE UNIVERSITY (OSU)

23054

## AIRPORT DIAGRAM

AL-6846 (FAA)

RICKENBACKER INTL (LCK)  
COLUMBUS, OHIO

## AIRPORT DIAGRAM

23054

COLUMBUS, OHIO  
RICKENBACKER INTL (LCK)

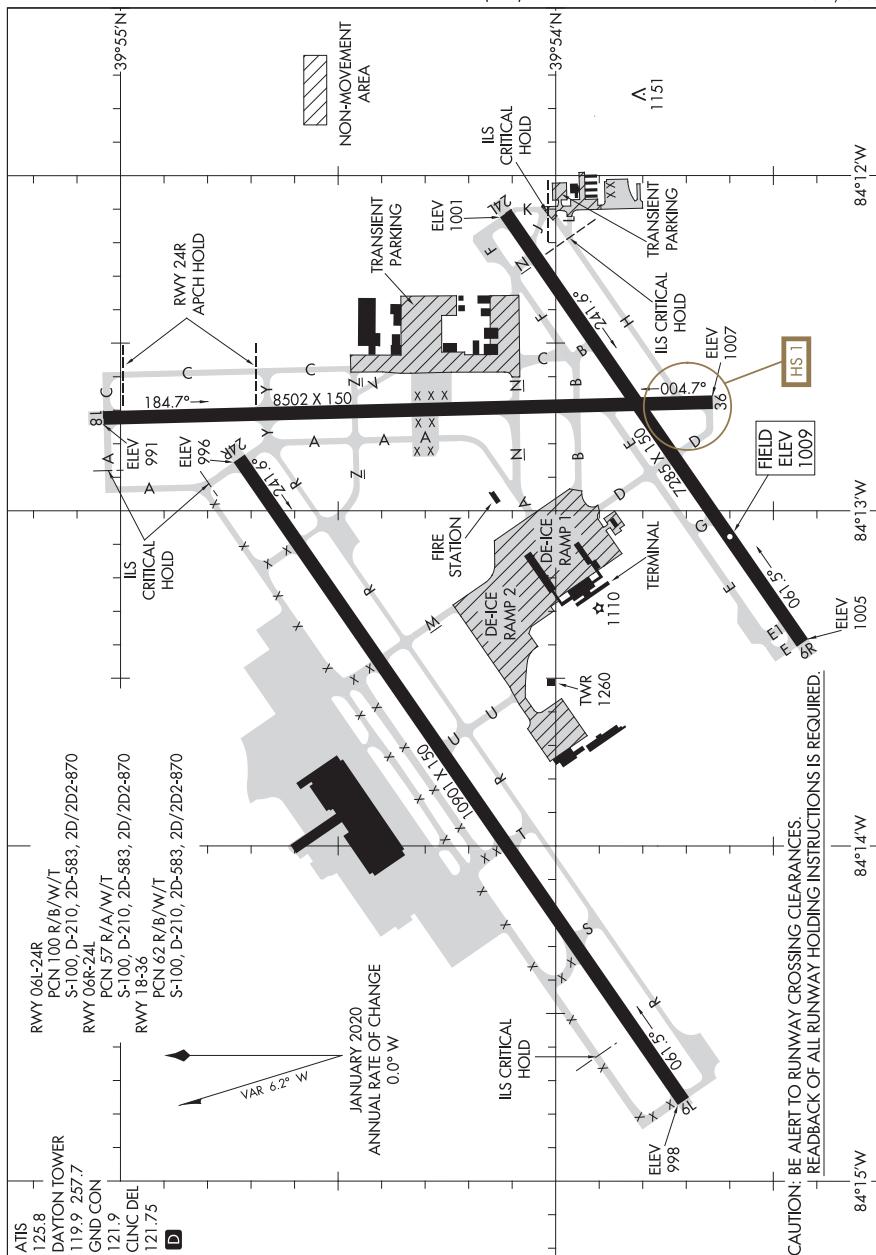
21112

## AIRPORT DIAGRAM

JAMES M COX DAYTON INTL (DAY)

DAYTON, OHIO

AL-107 (FAA)



## AIRPORT DIAGRAM

21112

JAMES M COX DAYTON INTL (DAY)

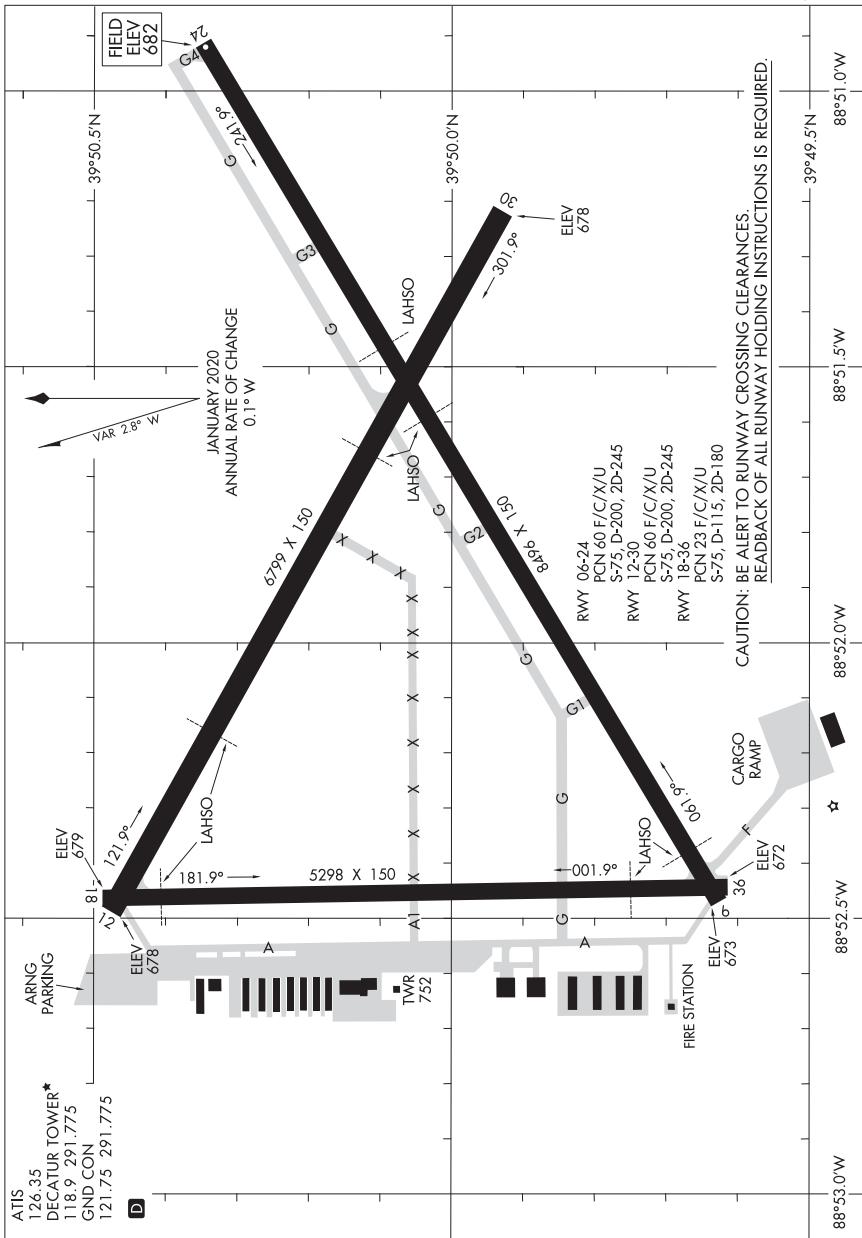
DAYTON, OHIO

23054

# AIRPORT DIAGRAM

AL-710 (FAA)

DECATUR (DEC)  
DECATUR, ILLINOIS



## AIRPORT DIAGRAM

23054

DECATUR, ILLINOIS  
DECATUR (DEC)

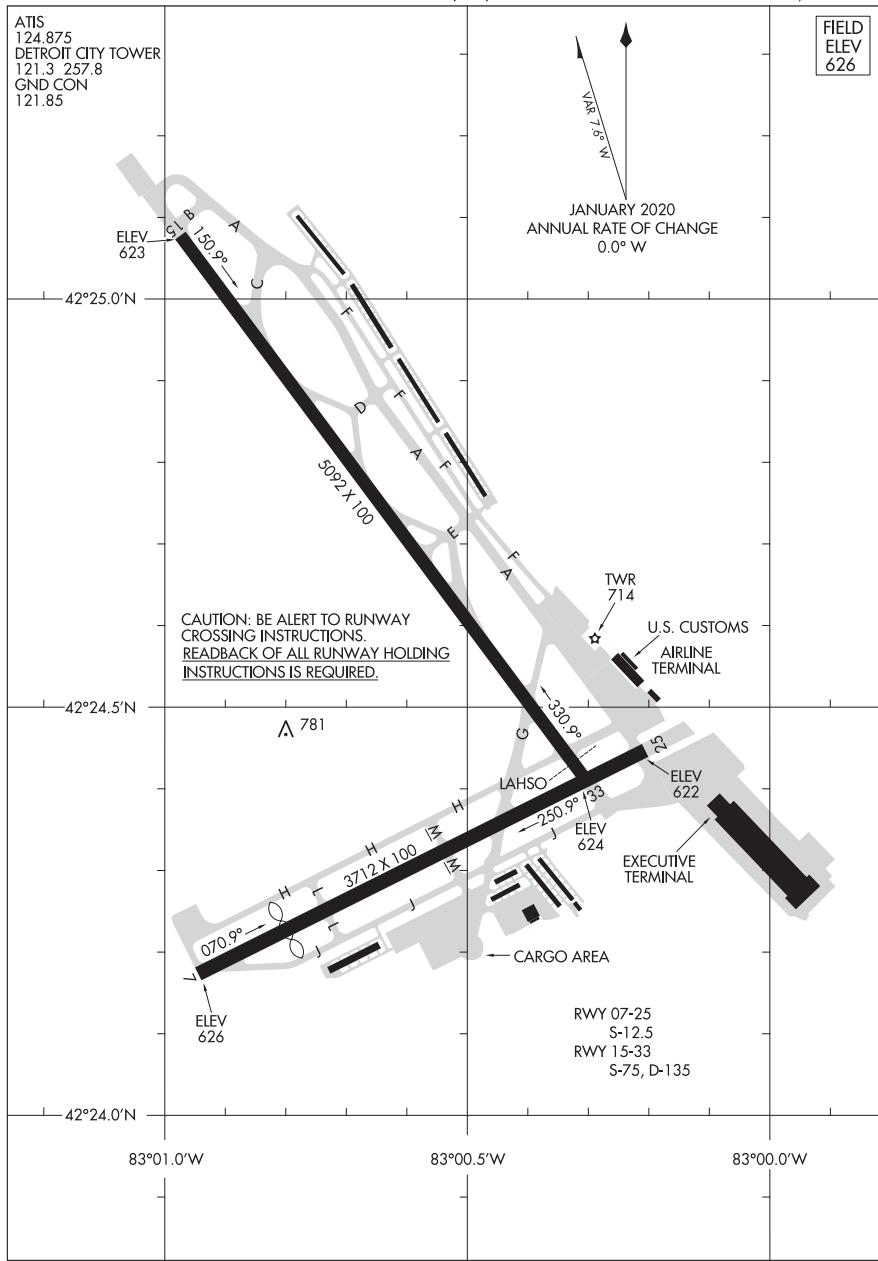
20366

## AIRPORT DIAGRAM

AL-118 (FAA)

COLEMAN A YOUNG MUNI (DET)

DETROIT, MICHIGAN



## AIRPORT DIAGRAM

20366

DETROIT, MICHIGAN

COLEMAN A YOUNG MUNI (DET)

## AIRPORT DIAGRAMS

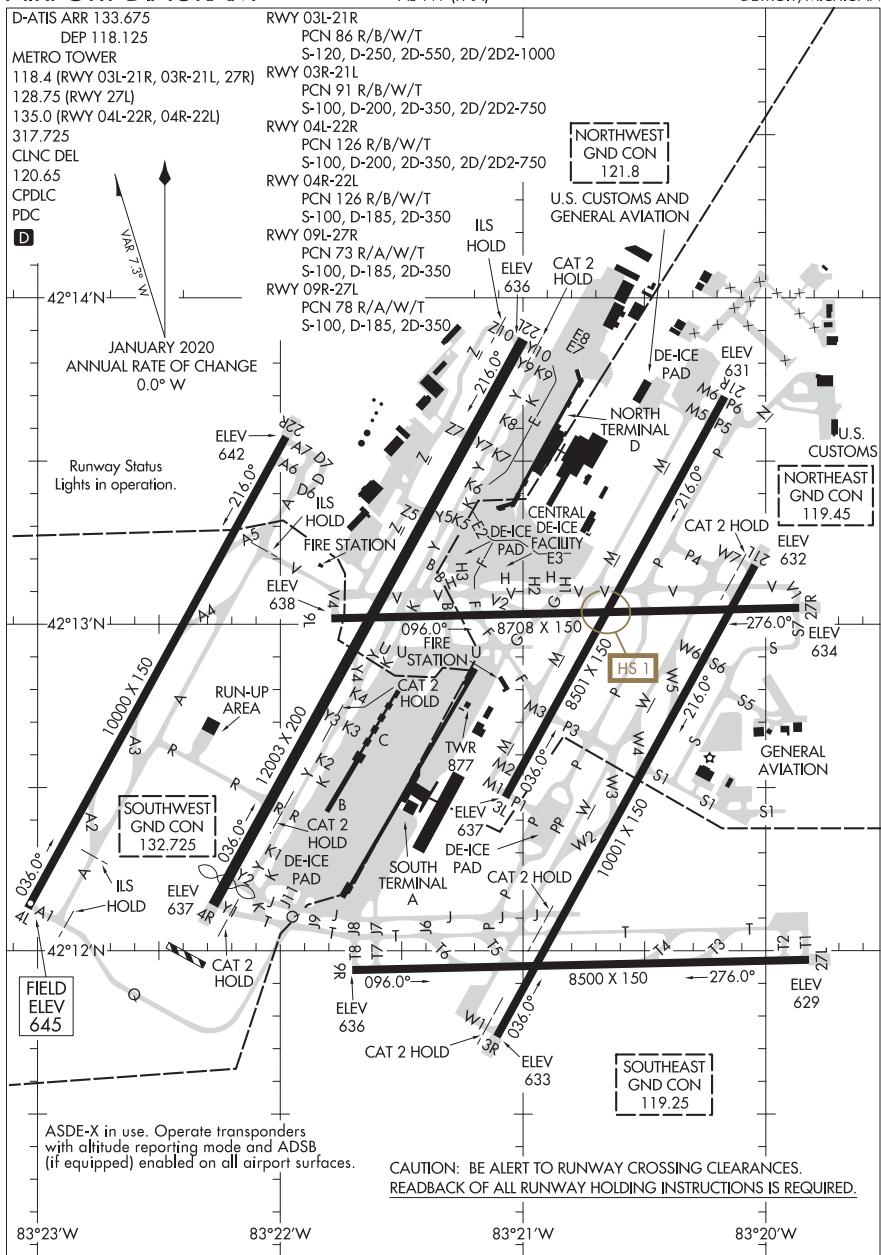
23110

## AIRPORT DIAGRAM

AL-119 (FAA)

DETROIT METRO WAYNE COUNTY (DTW)

DETROIT, MICHIGAN



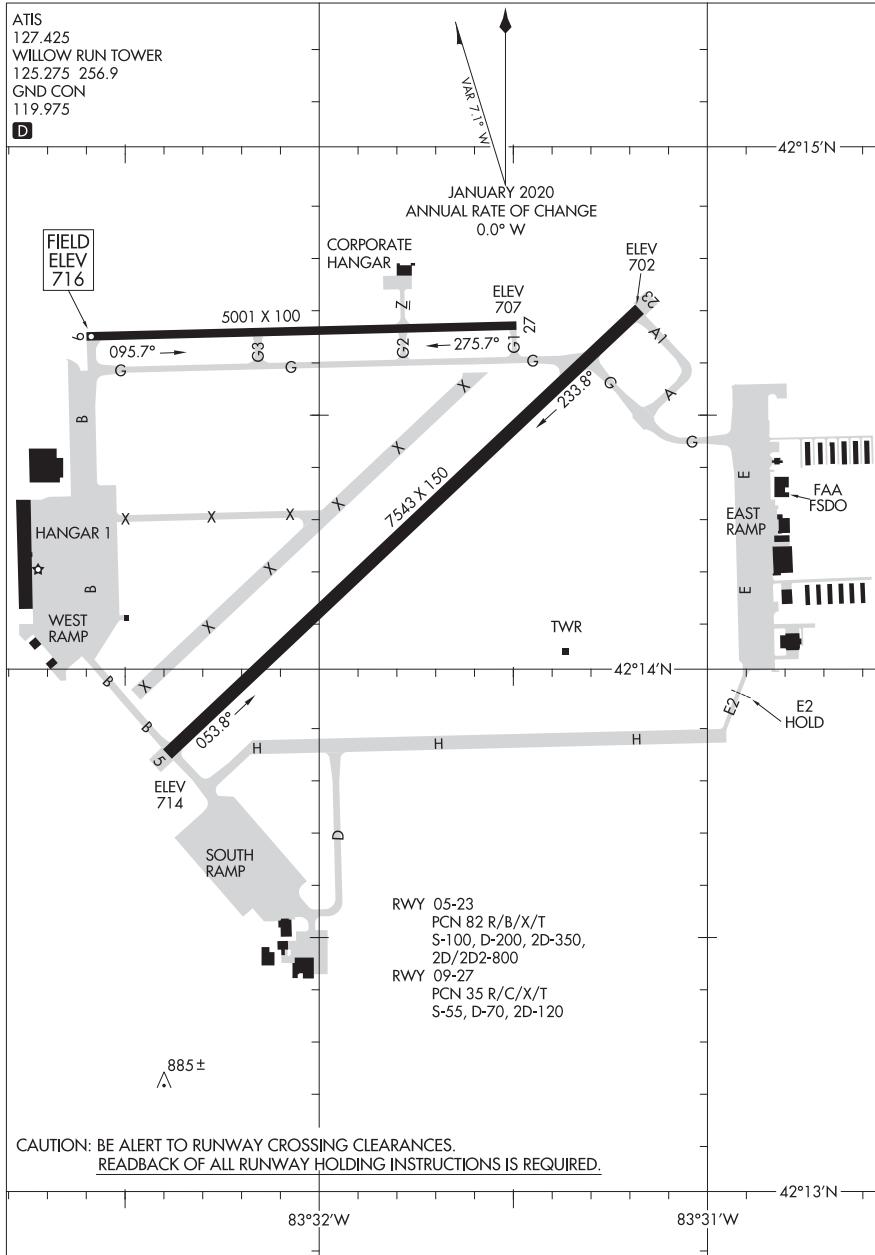
## AIRPORT DIAGRAM

23110

DETROIT METRO WAYNE COUNTY (DTW)

23334

## AIRPORT DIAGRAM



## AIRPORT DIAGRAM

23334

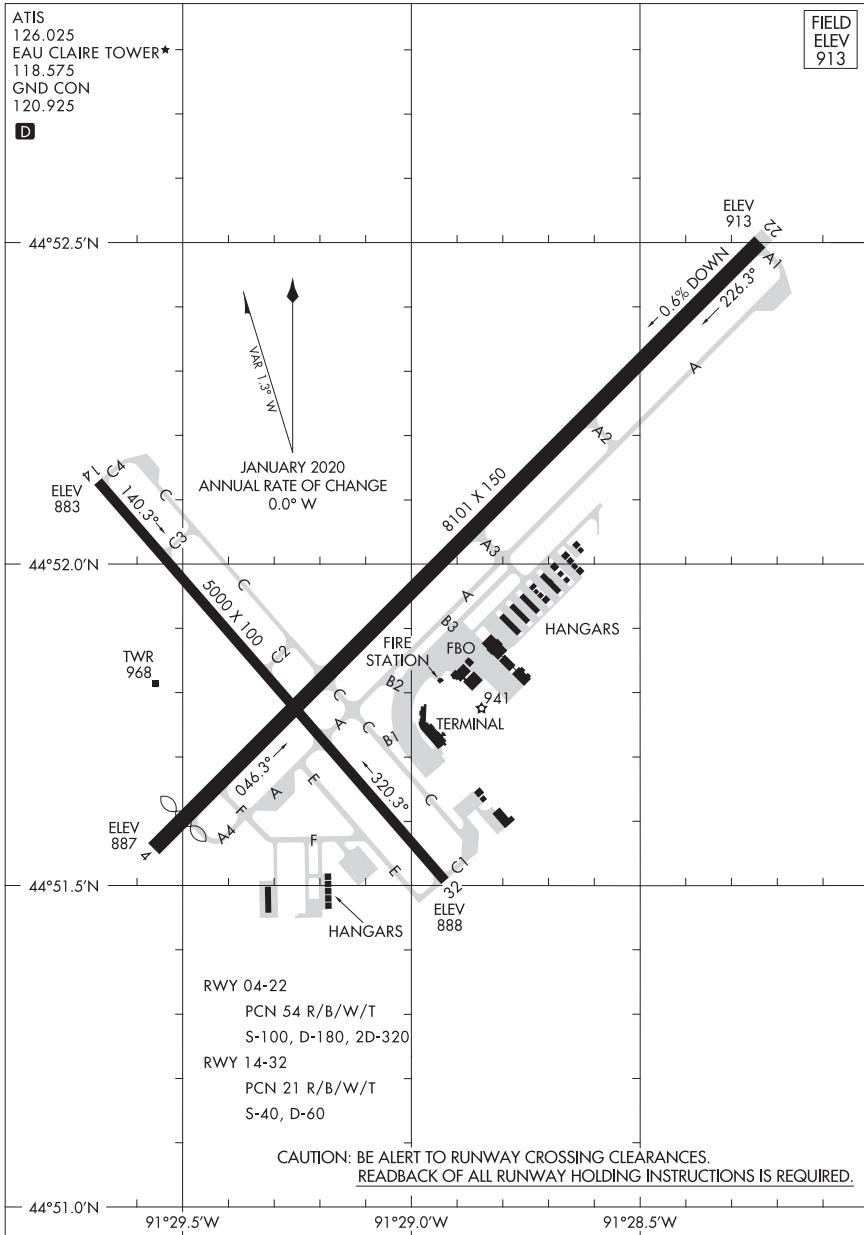
DETROIT, MICHIGAN

WILLOW RUN (YIP)

22139

## AIRPORT DIAGRAM

AI-937 (FAA)

CHIPPEWA VALLEY RGNL (EAU)  
EAU CLAIRE, WISCONSIN

## AIRPORT DIAGRAM

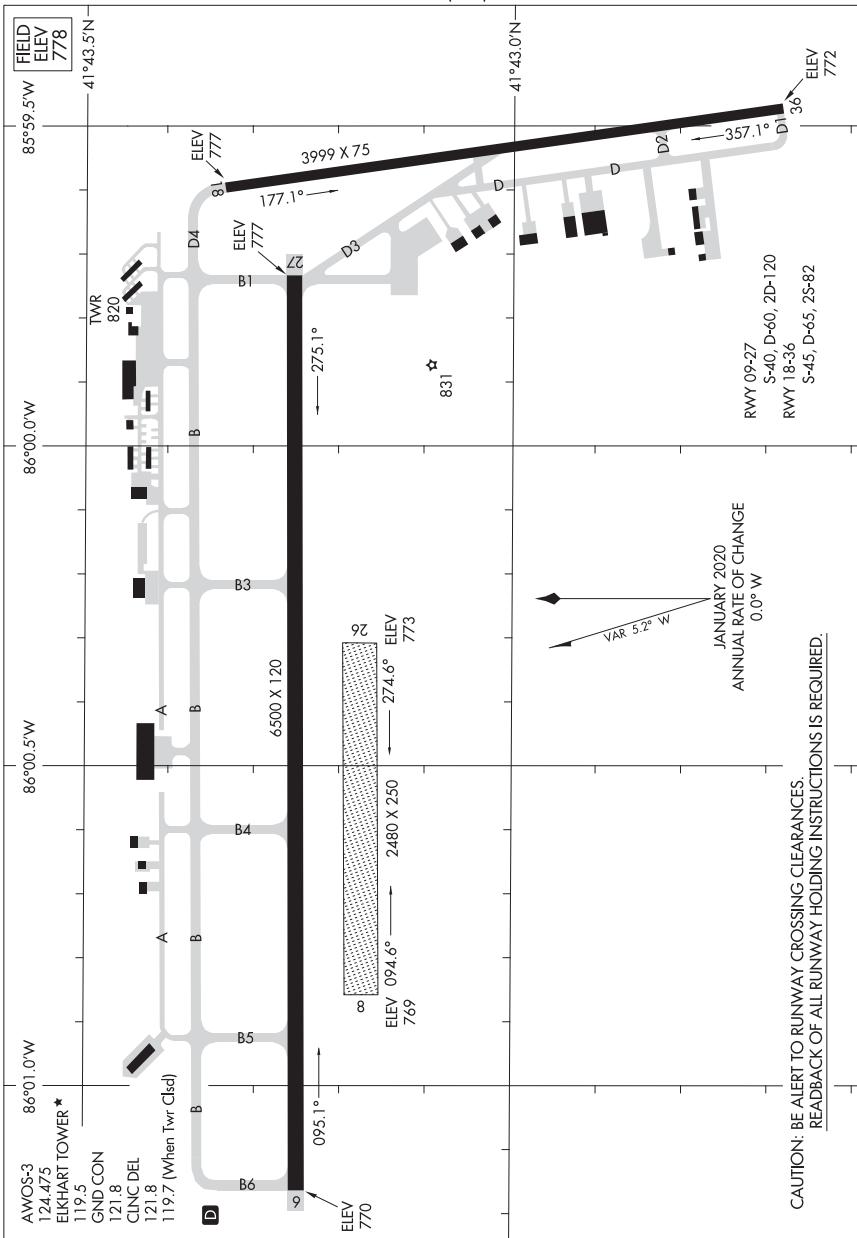
22139

EAU CLAIRE, WISCONSIN  
CHIPPEWA VALLEY RGNL (EAU)

20086

## AIRPORT DIAGRAM

AL-5287 (FAA)

ELKHART MUNI (EKM)  
ELKHART, INDIANA

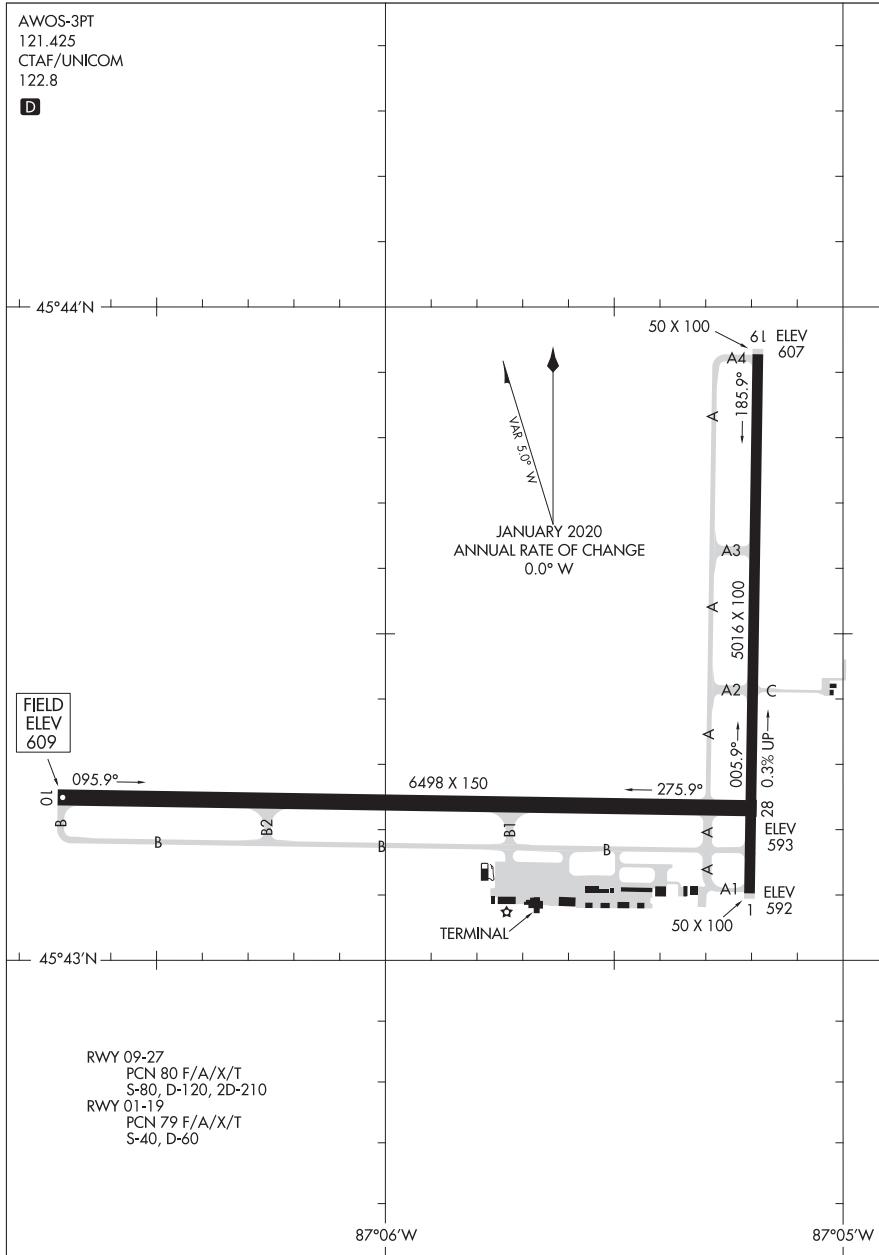
## AIRPORT DIAGRAM

20086

22307

## AIRPORT DIAGRAM

AL-5123 (FAA)

DELTA COUNTY (ESC)  
ESCANABA, MICHIGAN

## AIRPORT DIAGRAM

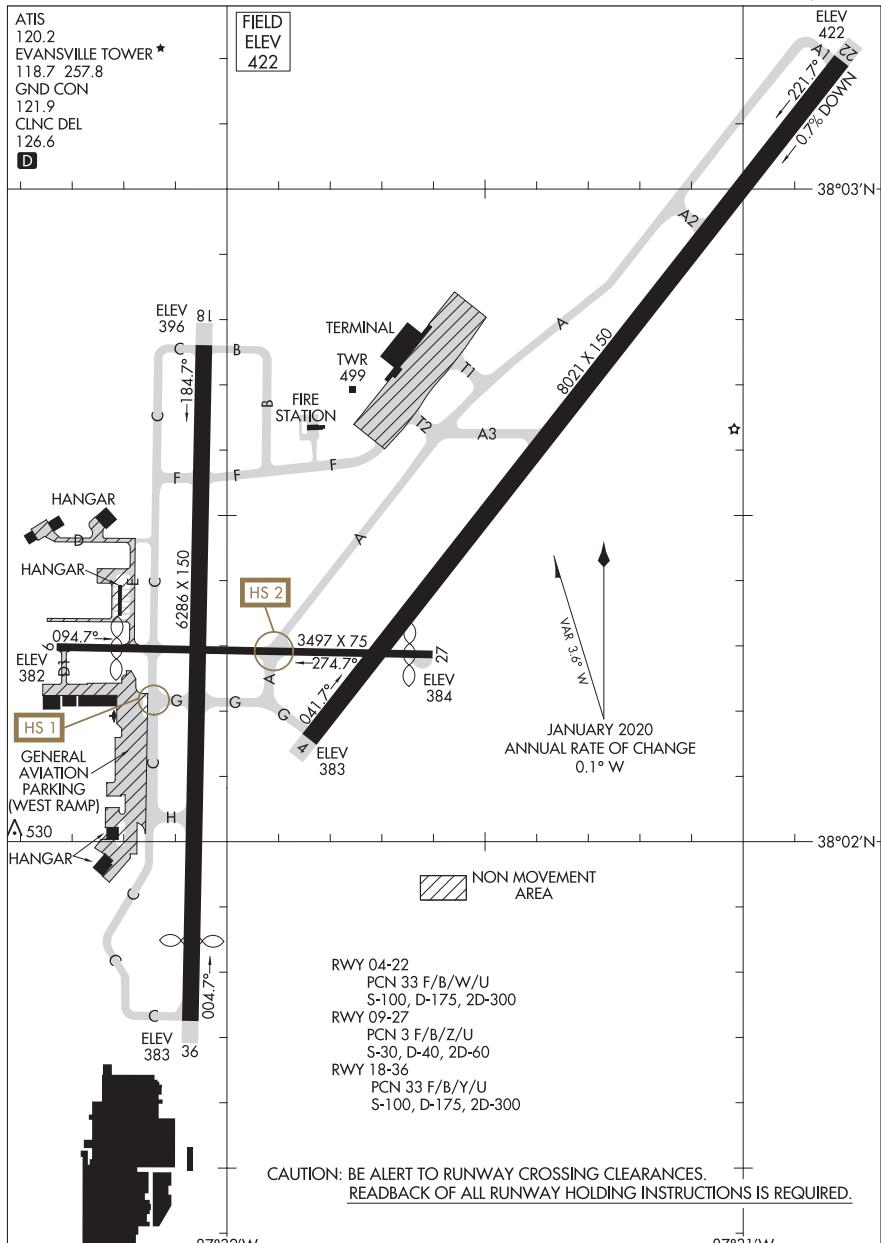
22307

ESCANABA, MICHIGAN  
DELTA COUNTY (ESC)

20198

## AIRPORT DIAGRAM

AL-513 (FAA)

EVANSVILLE RGNL (EVV)  
EVANSVILLE, INDIANA

## AIRPORT DIAGRAM

20198

23222

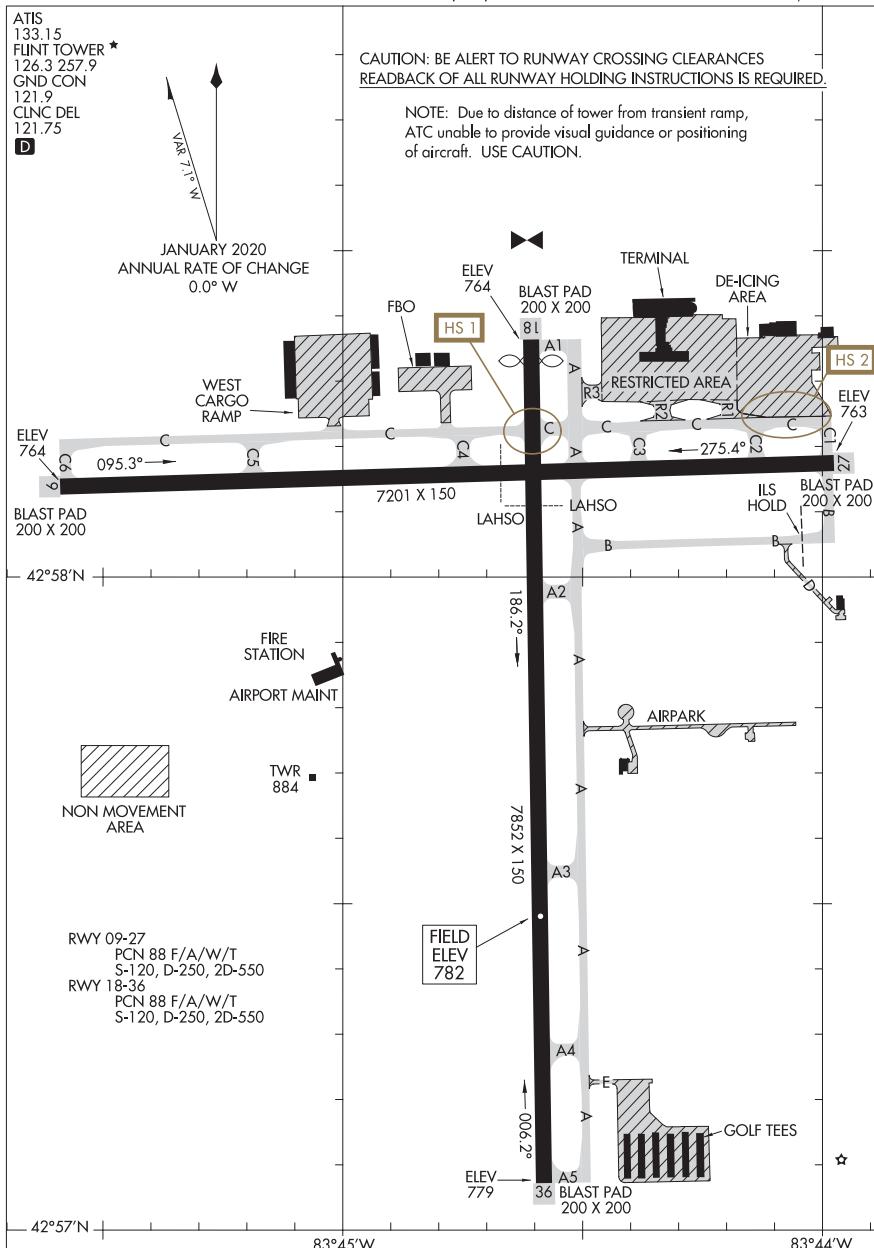
## AIRPORT DIAGRAM

ATIS  
133.15  
FLINT TOWER \*126.3 257.9  
GND CON  
121.9  
CLNC DEL  
121.75  
**D**

JANUARY 2020  
ANNUAL RATE OF CHANGE  
0.0° W

AL-618 (FAA)

BISHOP INTL (FNT)  
FLINT, MICHIGAN



## AIRPORT DIAGRAM

23222

FLINT, MICHIGAN  
BISHOP INTL (FNT)

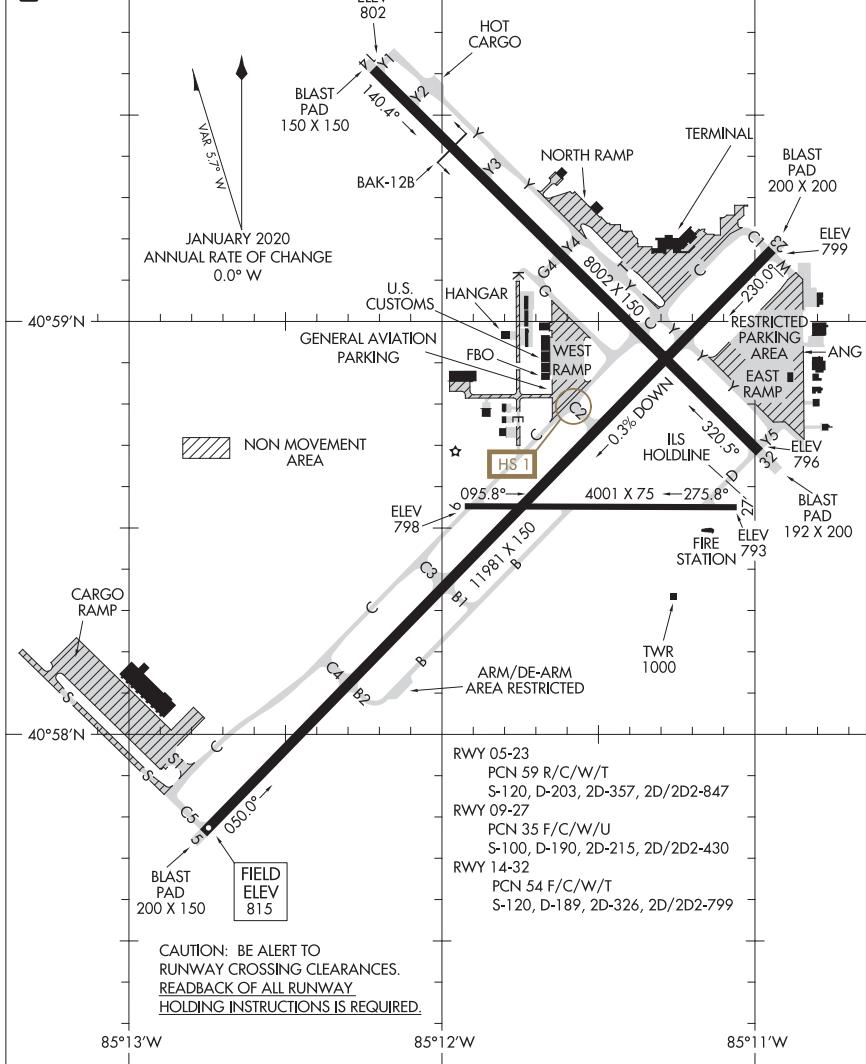
23278

## AIRPORT DIAGRAM

AL-156 (FAA)

FORT WAYNE INTL (FWA)  
FORT WAYNE, INDIANA

ATIS  
121.25 360.825  
FORT WAYNE TOWER  
119.1 269.325  
GND CON  
121.9 348.6  
CLNC DEL  
124.75

**D**

## AIRPORT DIAGRAM

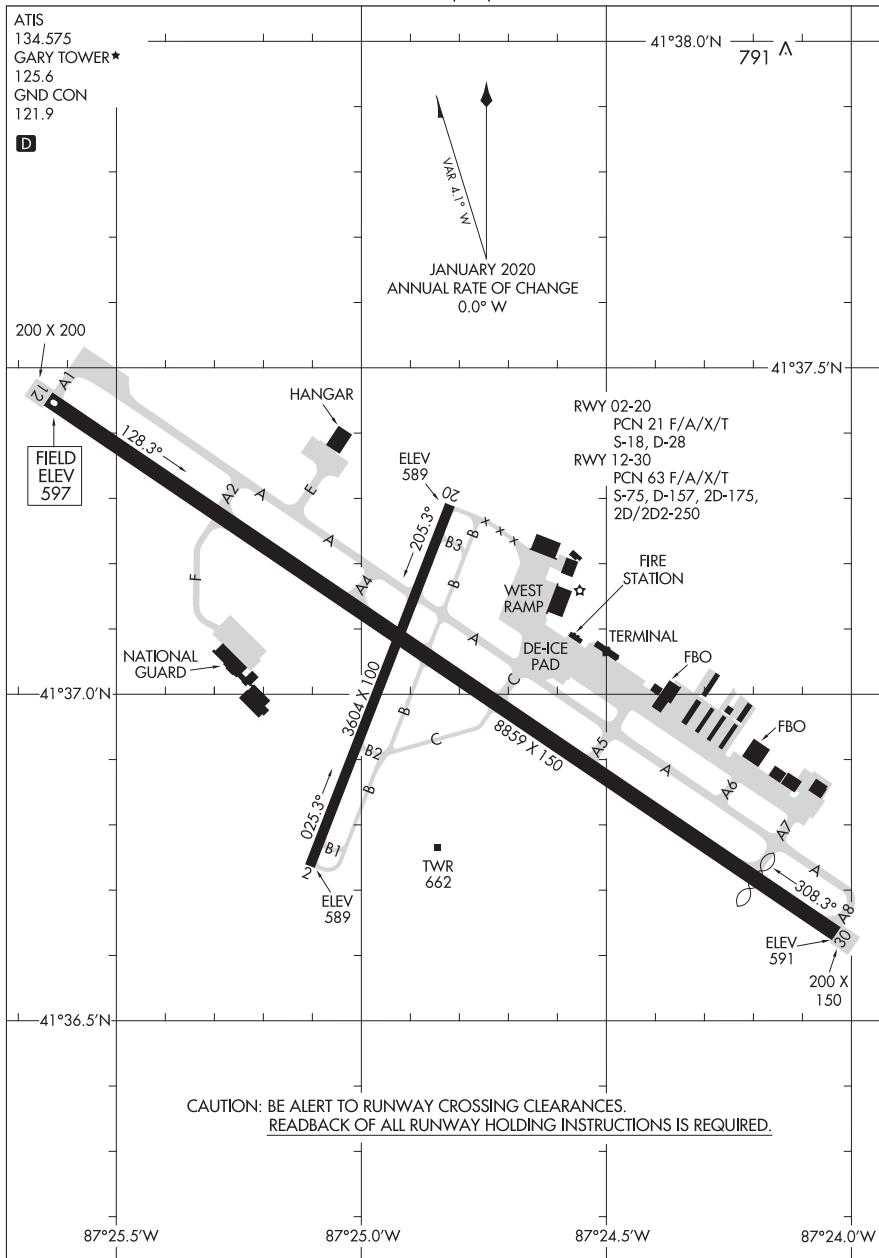
23278

FORT WAYNE, INDIANA  
FORT WAYNE INTL (FWA)

20198

## AIRPORT DIAGRAM

AL-748 (FAA)

GARY/CHICAGO INTL (GYY)  
GARY, INDIANA

## AIRPORT DIAGRAM

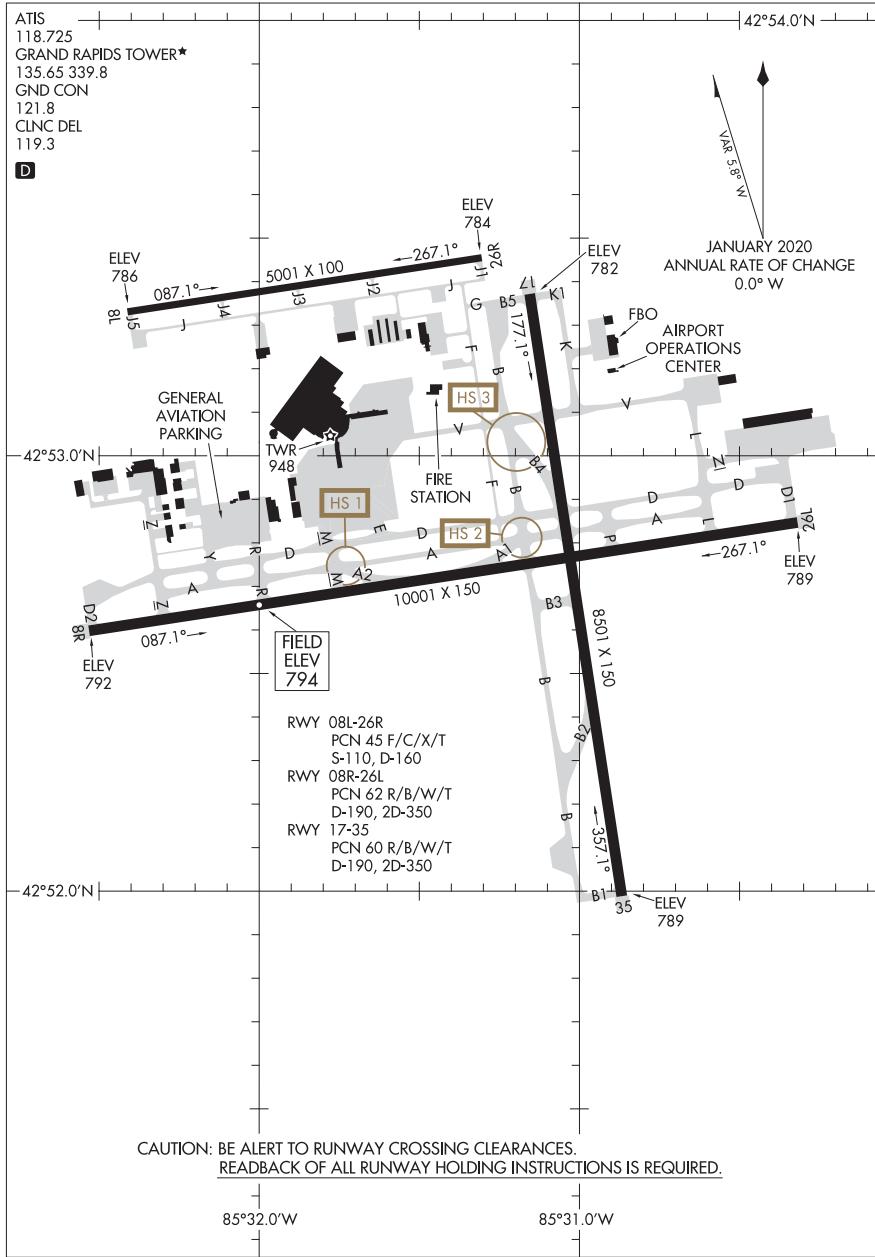
20198

GARY, INDIANA  
GARY/CHICAGO INTL (GYY)

23110

## AIRPORT DIAGRAM

AL-5184 (FAA)

GERALD R FORD INTL (GRR)  
GRAND RAPIDS, MICHIGAN

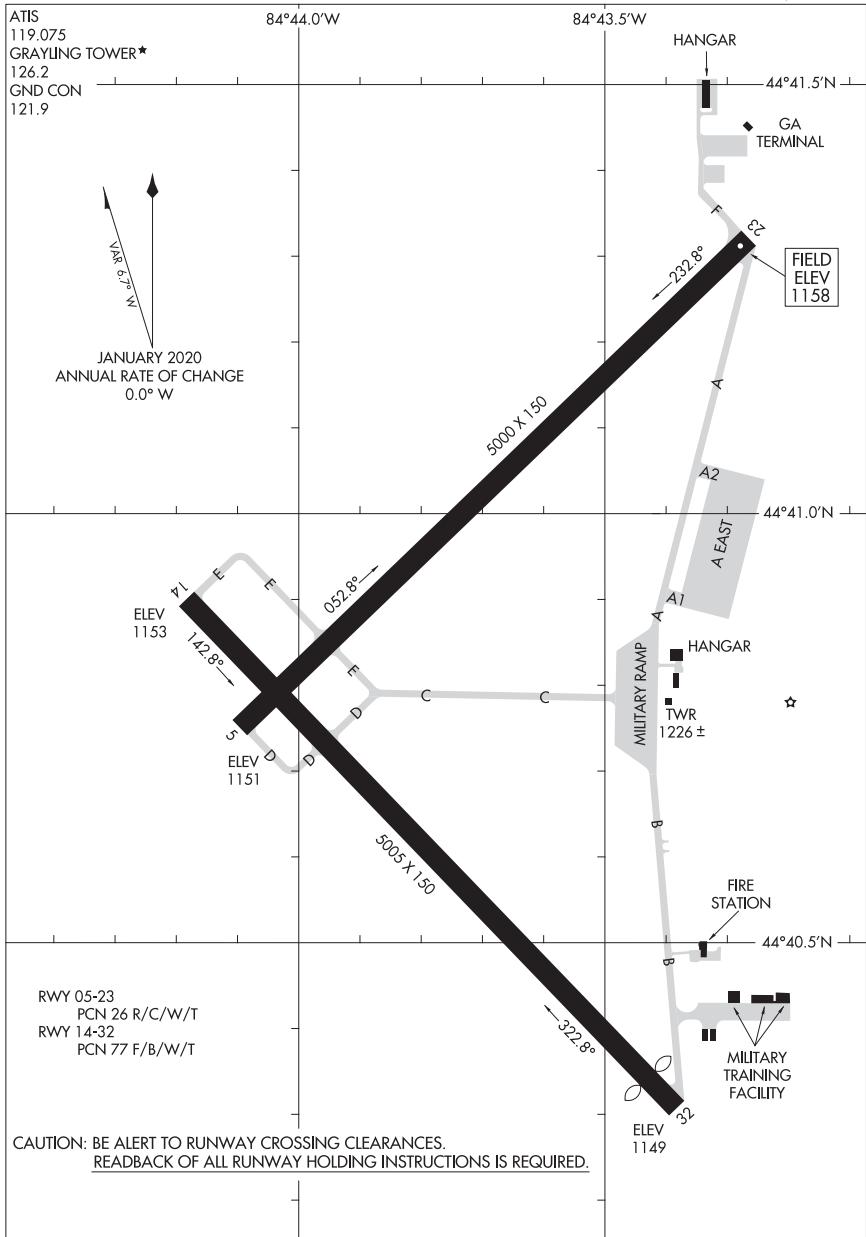
## AIRPORT DIAGRAM

23110

20086

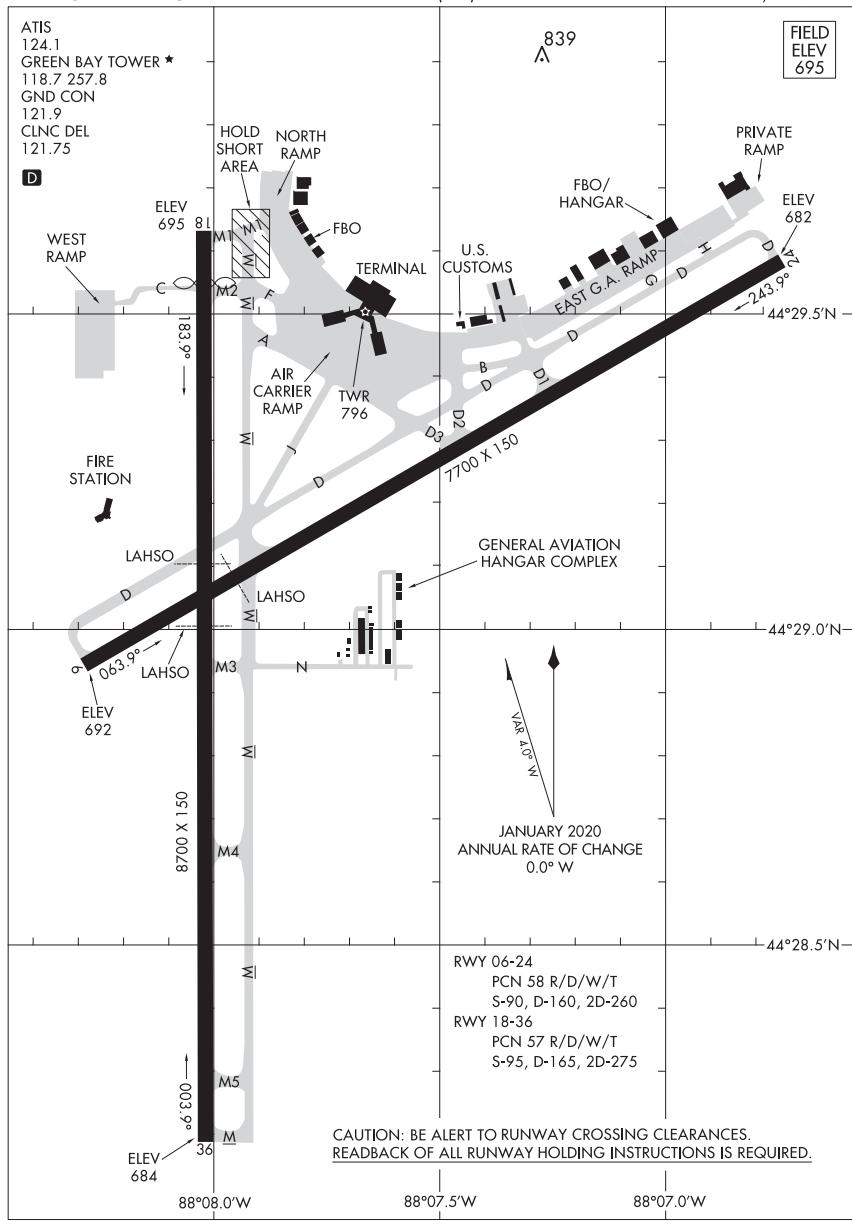
## AIRPORT DIAGRAM

AI-5957 (FAA)

GRAYLING AAF (GOV)  
GRAYLING, MICHIGAN

21336  
AIRPORT DIAGRAM

AL-873 (FAA)  
GREEN BAY/AUSTIN STRAUBEL INTL (GRB)  
GREEN BAY, WISCONSIN



21336  
AIRPORT DIAGRAM

GREEN BAY, WISCONSIN  
GREEN BAY/AUSTIN STRAUBEL INTL (GRB)

## AIRPORT DIAGRAMS

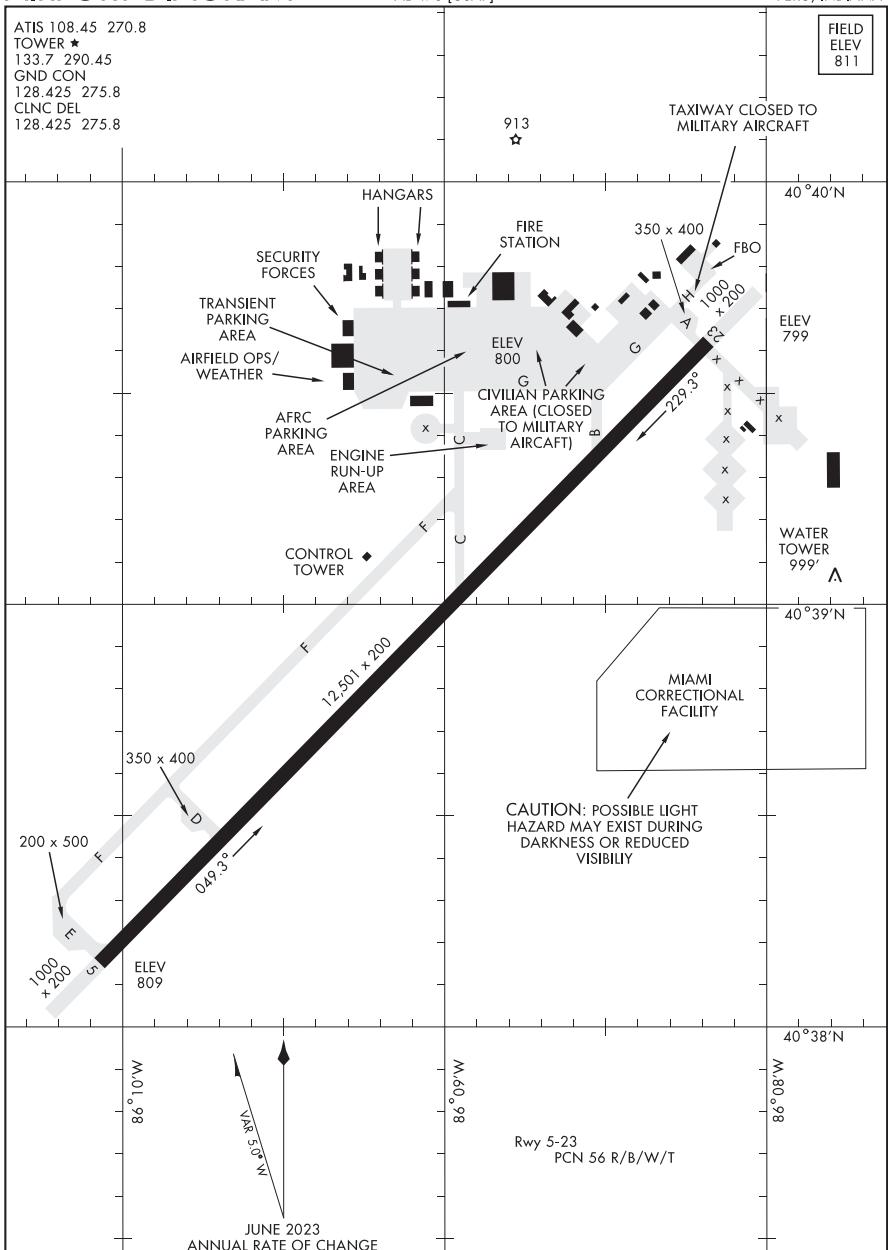
23278

## AIRPORT DIAGRAM

AI-470 [USAF]

GRISSEY ARB (KGUS)

PERU, INDIANA



## AIRPORT DIAGRAM

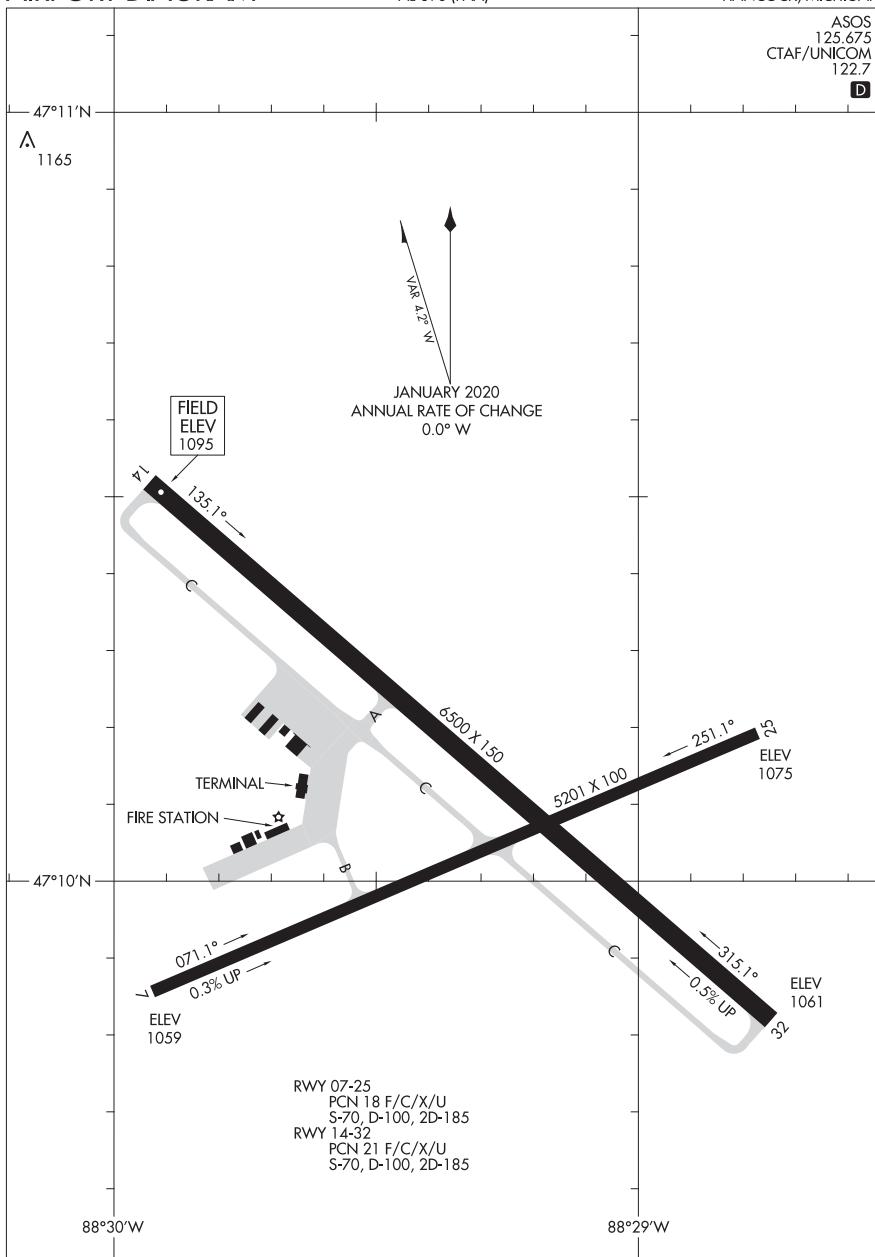
GRISSEY ARB (KGUS)

PERU, INDIANA

23334

## AIRPORT DIAGRAM

AL-896 (FAA)

HOUGHTON COUNTY MEML (CMX)  
HANCOCK, MICHIGAN

## AIRPORT DIAGRAM

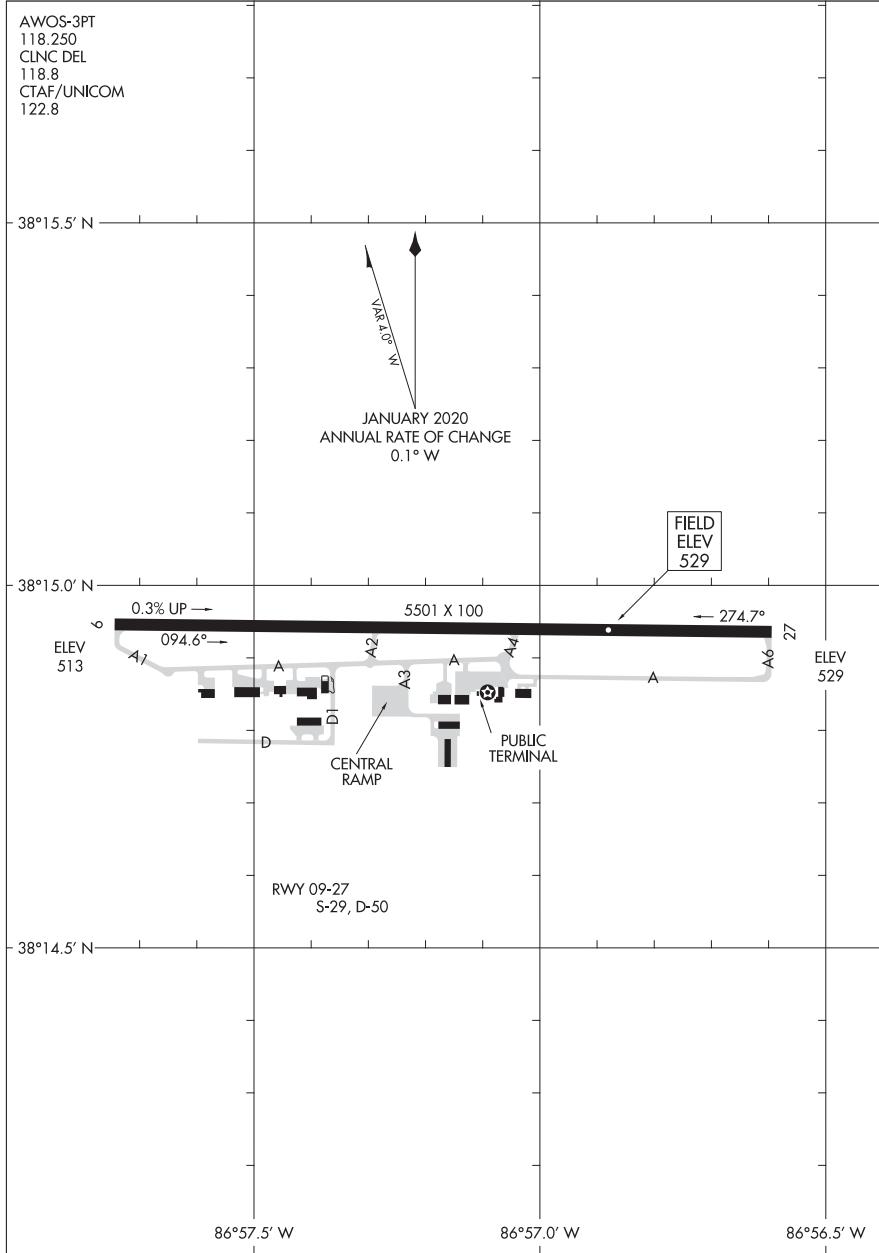
23334

HANCOCK, MICHIGAN  
HOUGHTON COUNTY MEML (CMX)

22363

## AIRPORT DIAGRAM

AL-5378 (FAA)

HUNTINGBURG (HNB)  
HUNTINGBURG, INDIANA

## AIRPORT DIAGRAM

22363

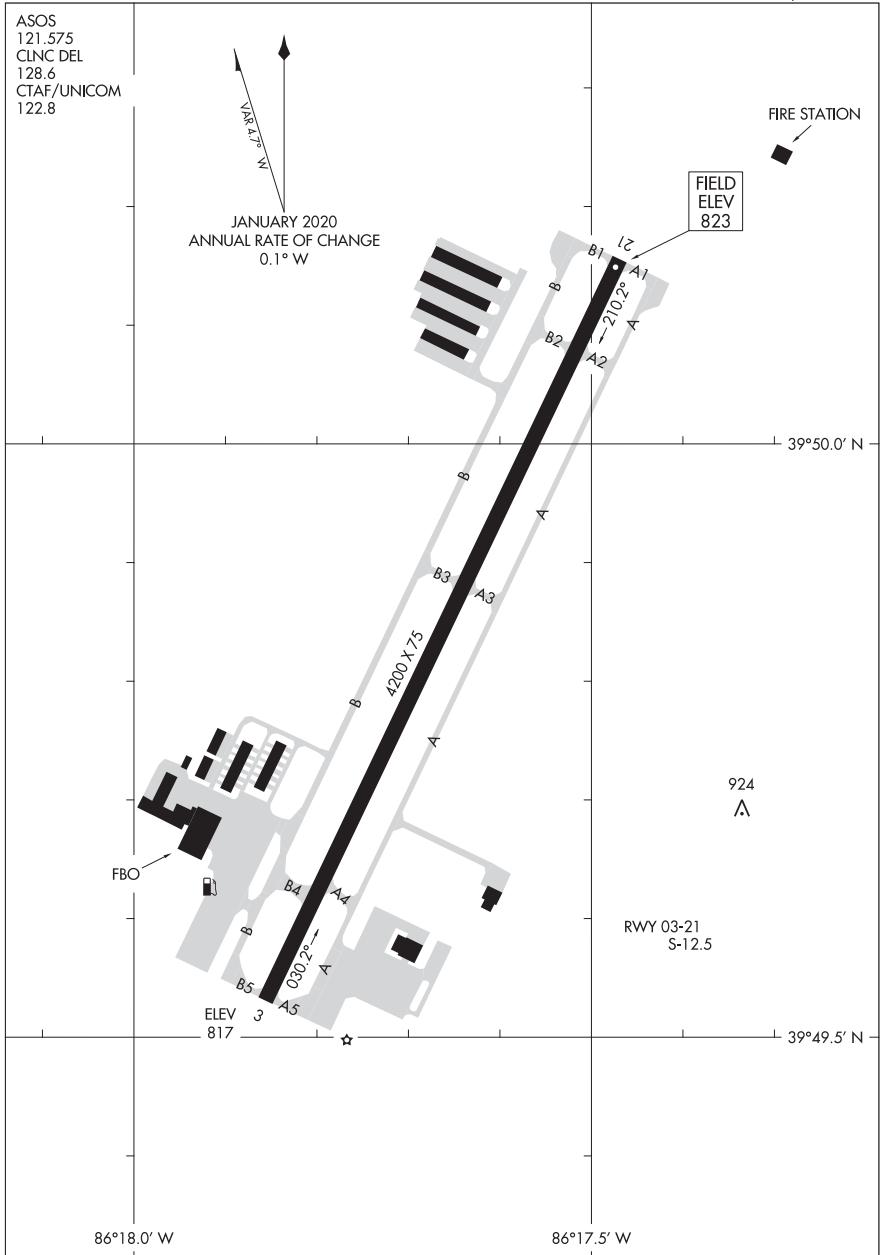
HUNTINGBURG, INDIANA  
HUNTINGBURG (HNB)

23054

# AIRPORT DIAGRAM

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)  
INDIANAPOLIS, INDIANA



## AIRPORT DIAGRAM

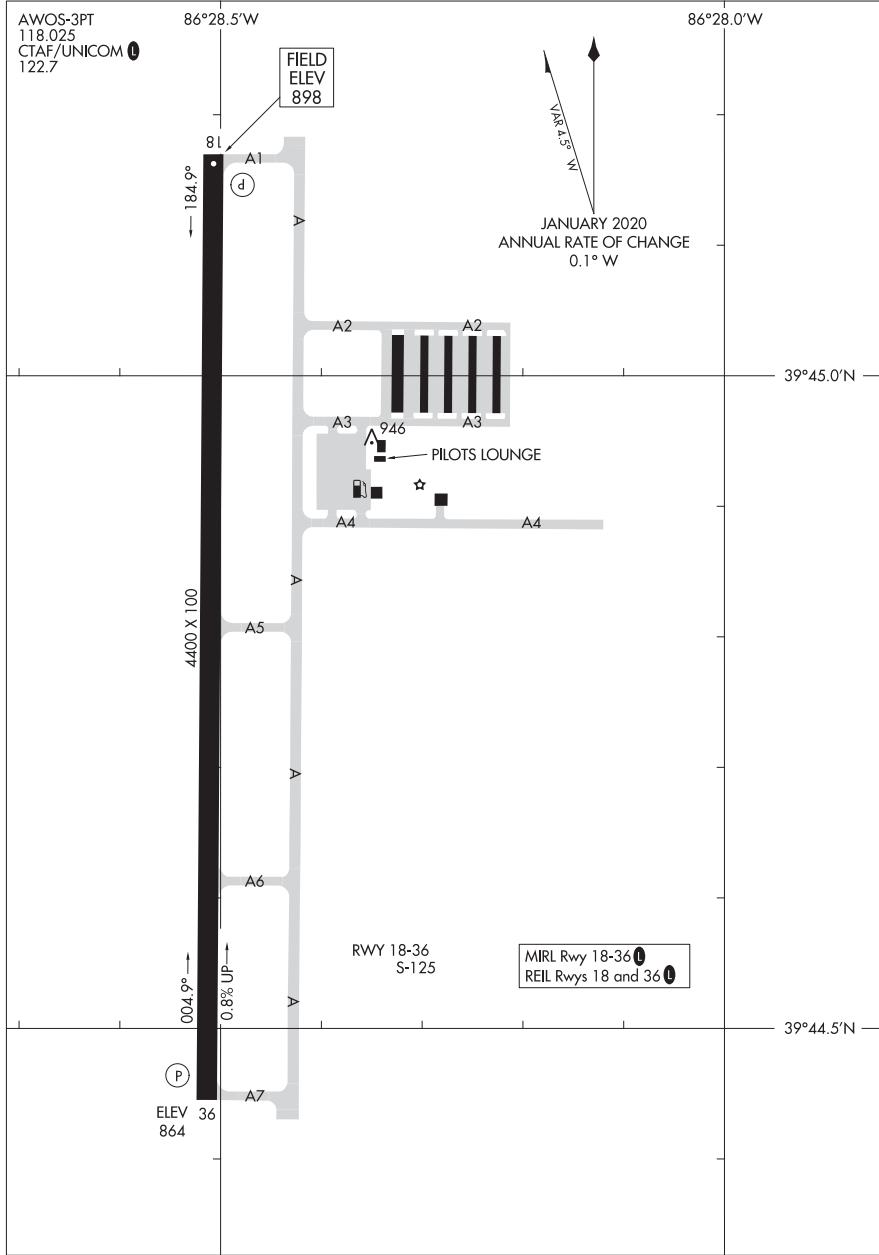
23054

INDIANAPOLIS, INDIANA  
EAGLE CREEK AIRPARK (EYE)

23334

## AIRPORT DIAGRAM

HENDRICKS COUNTY-GORDON GRAHAM FLD (2R2)  
AL-10352 (FAA)  
INDIANAPOLIS, INDIANA



## AIRPORT DIAGRAM

23334

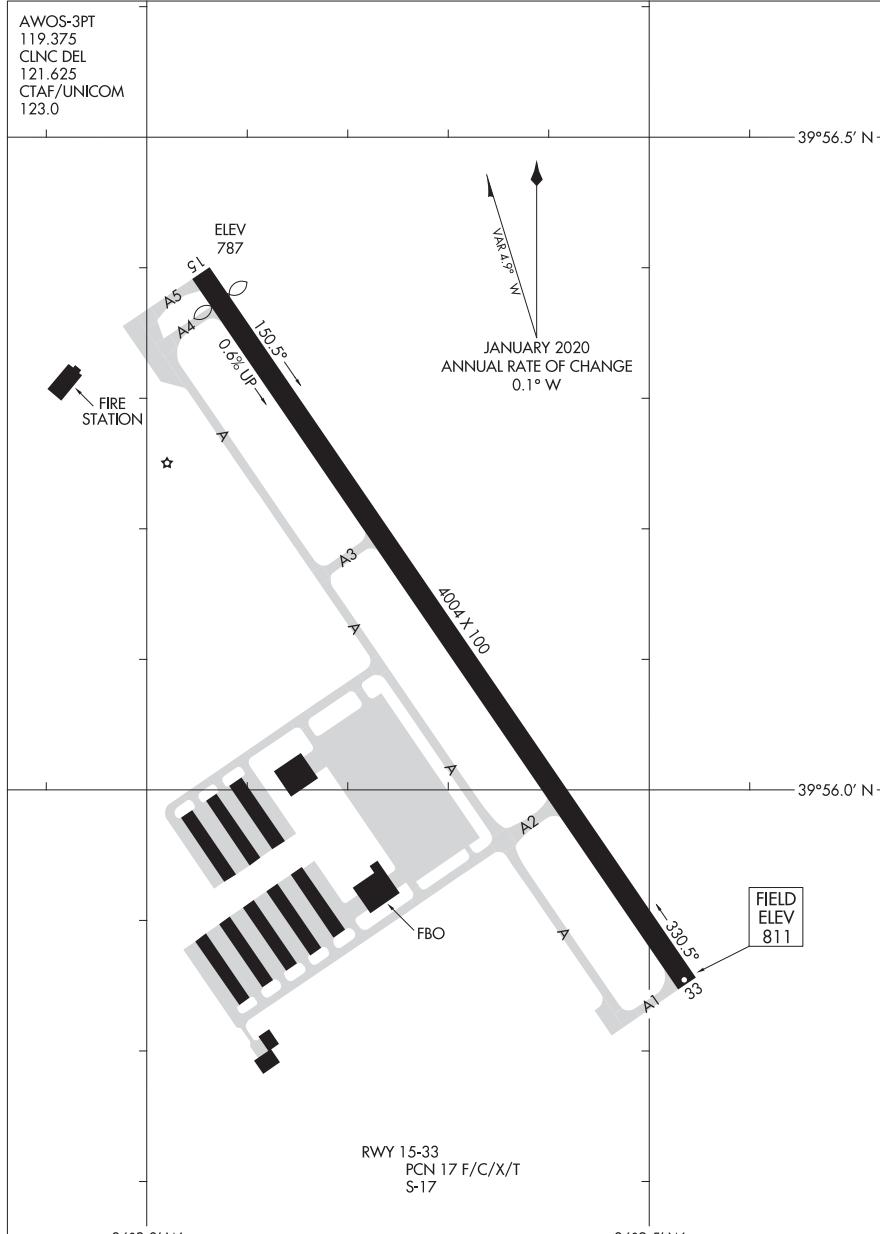
INDIANAPOLIS, INDIANA  
HENDRICKS COUNTY-GORDON GRAHAM FLD (2R2)



23334

## AIRPORT DIAGRAM

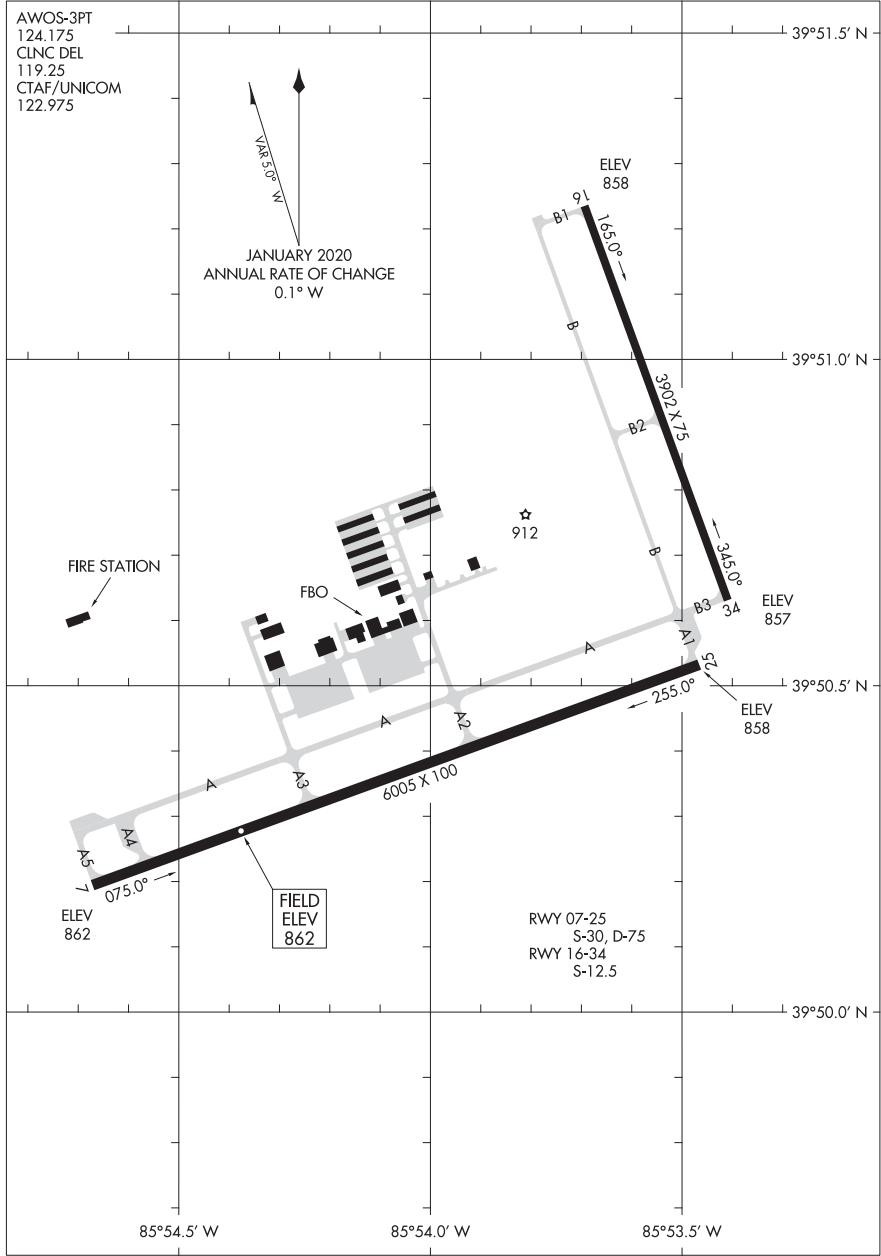
AL-5902 (FAA)

INDIANAPOLIS METRO (UMP)  
INDIANAPOLIS, INDIANA

23334

## AIRPORT DIAGRAM

AL-6452 (FAA)

INDIANAPOLIS RGNL (MQJ)  
INDIANAPOLIS, INDIANA

## AIRPORT DIAGRAM

23334

INDIANAPOLIS, INDIANA  
INDIANAPOLIS RGNL (MQJ)

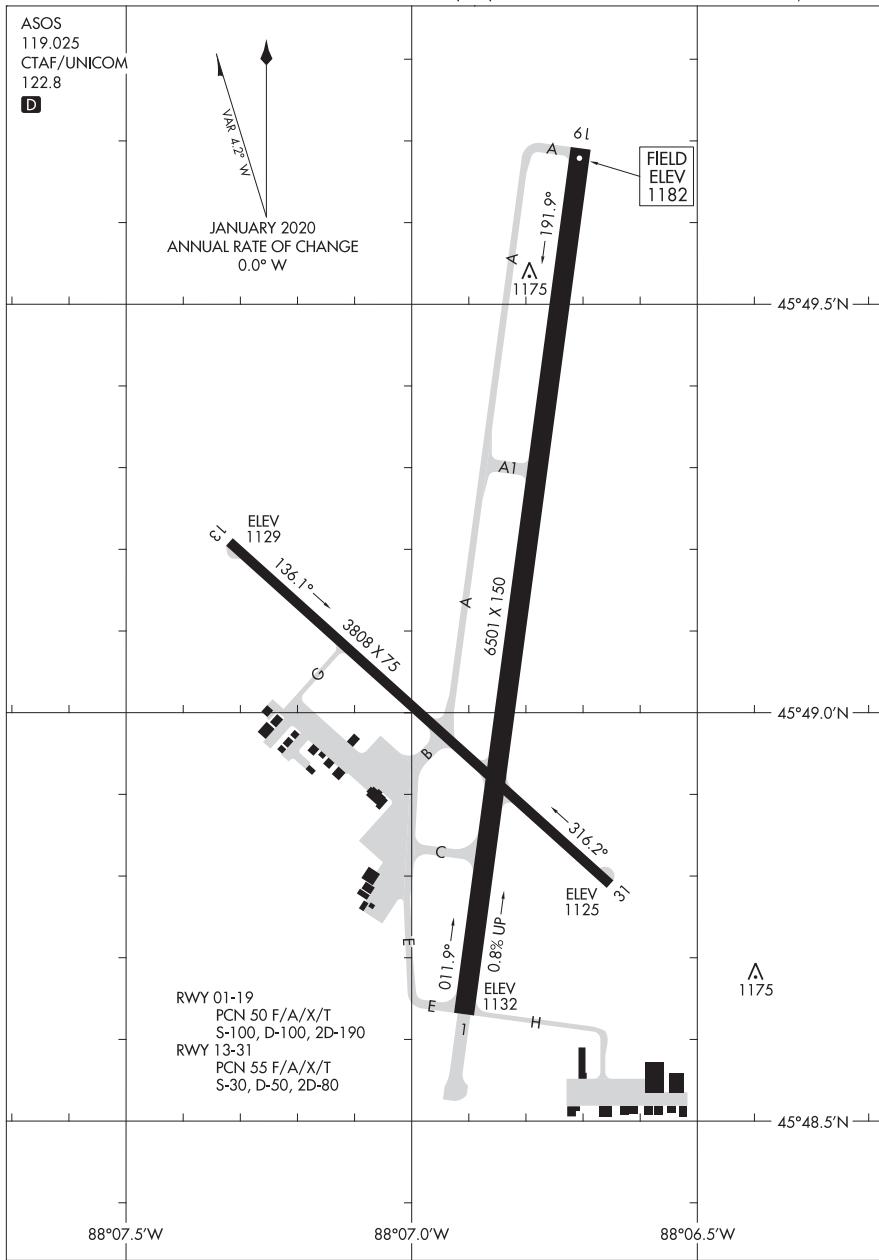
20254

## AIRPORT DIAGRAM

AL-5347 (FAA)

FORD (IMT)

IRON MOUNTAIN KINGSFORD, MICHIGAN



## AIRPORT DIAGRAM

20254

IRON MOUNTAIN KINGSFORD, MICHIGAN

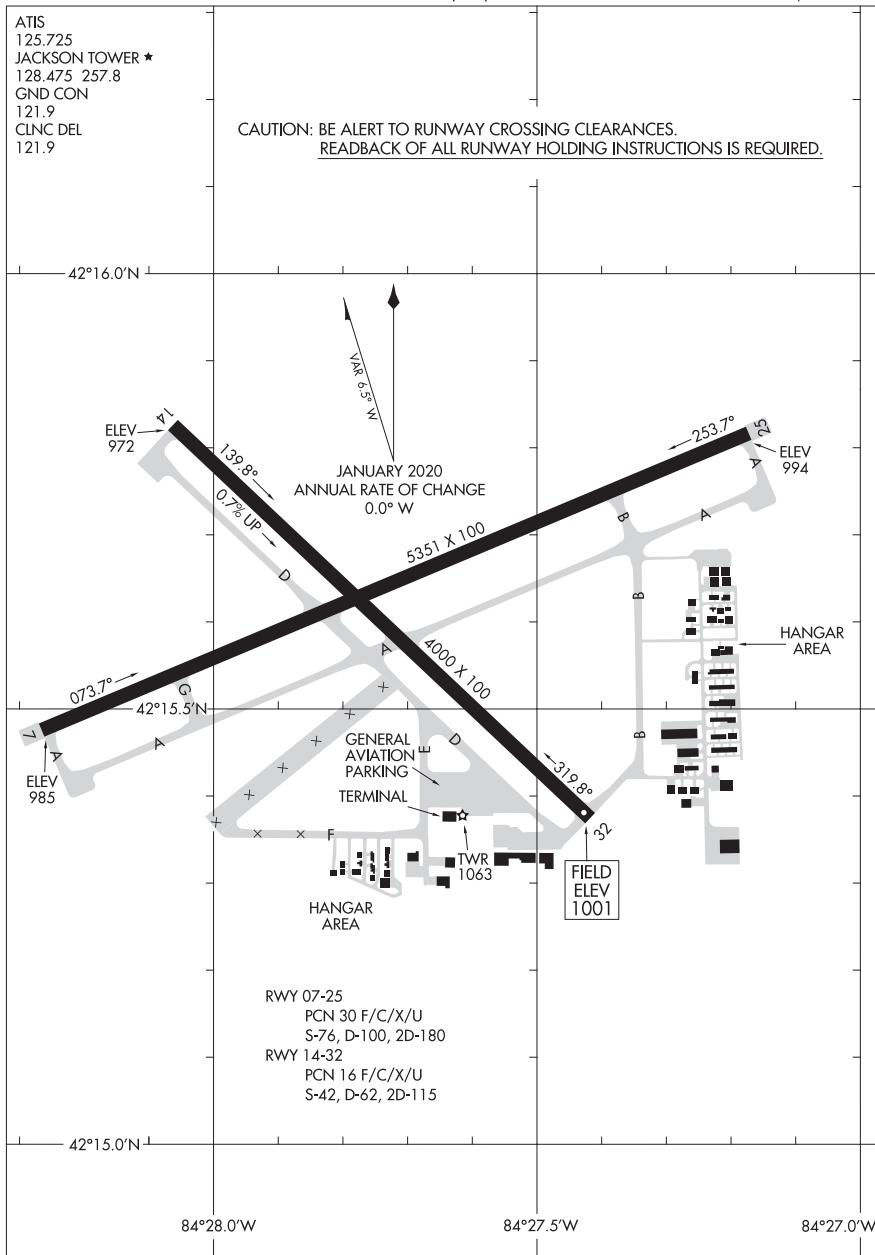
FORD (IMT)

23222

## AIRPORT DIAGRAM

JACKSON COUNTY/REYNOLDS FLD (JXN)  
AL-861 (FAA)

JACKSON, MICHIGAN



## AIRPORT DIAGRAM

23222

JACKSON, MICHIGAN  
JACKSON COUNTY/REYNOLDS FLD (JXN)



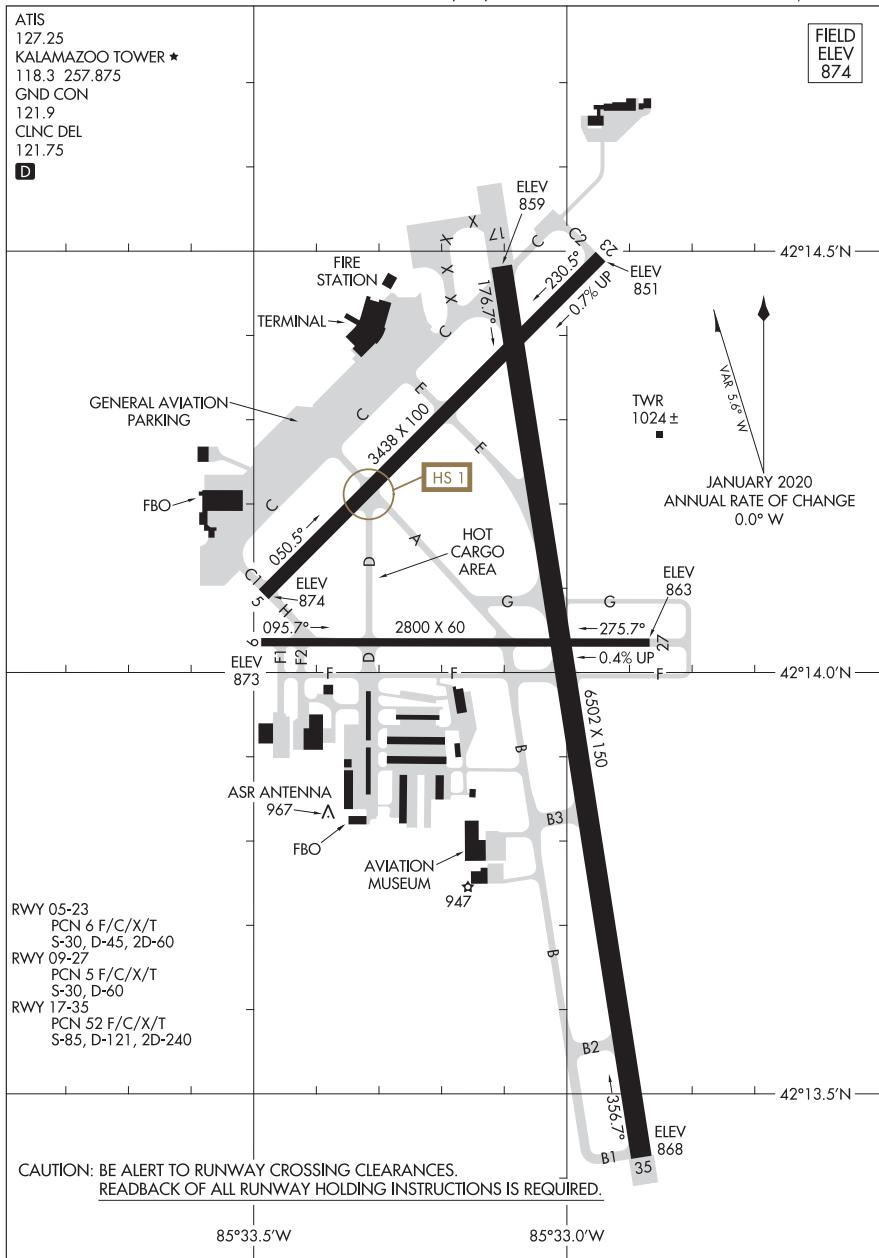
20086

## AIRPORT DIAGRAM

AL-717 (FAA)

KALAMAZOO/BATTLE CREEK INTL (AZO)

KALAMAZOO, MICHIGAN



## AIRPORT DIAGRAM

20086

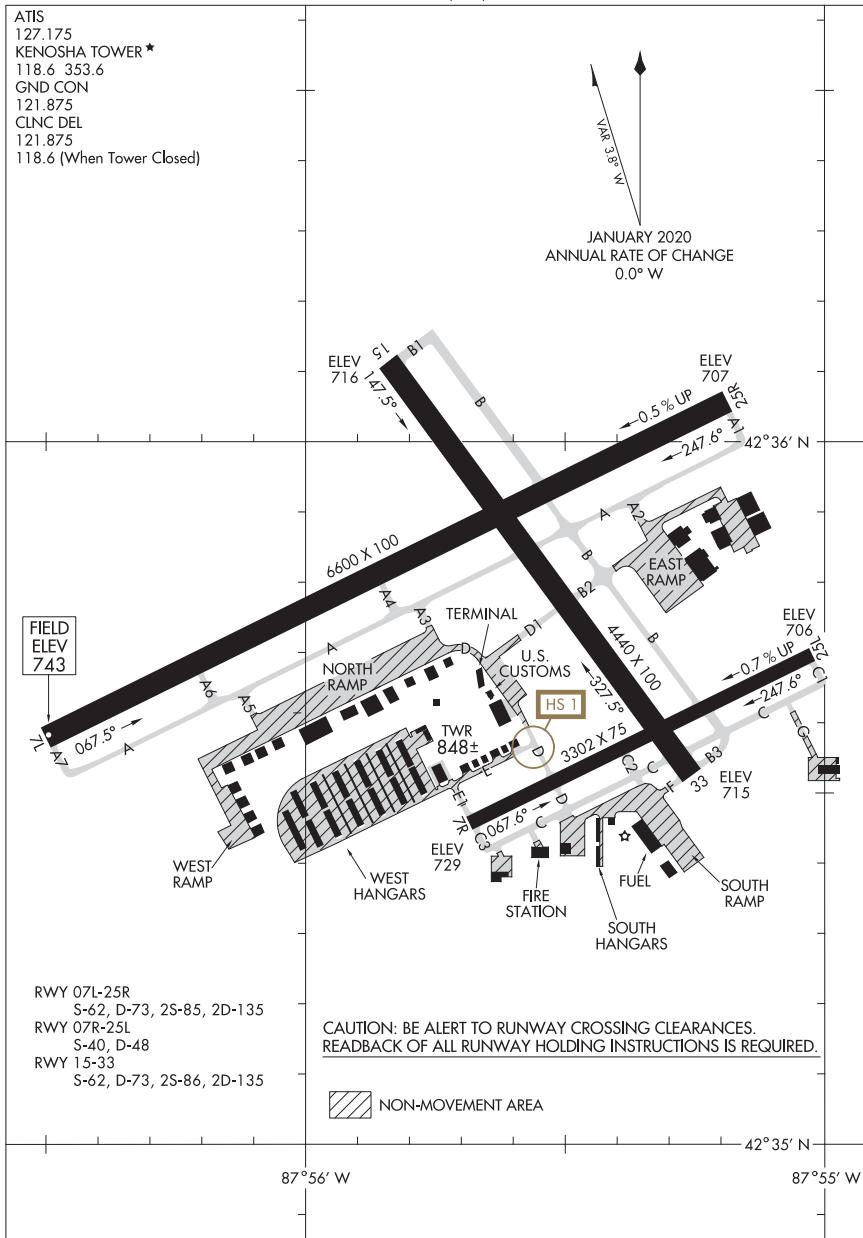
KALAMAZOO, MICHIGAN

KALAMAZOO/BATTLE CREEK INTL (AZO)

23278

## AIRPORT DIAGRAM

AL-5449 (FAA)

KENOSHA RGNL(E) NW  
KENOSHA, WISCONSIN

## AIRPORT DIAGRAM

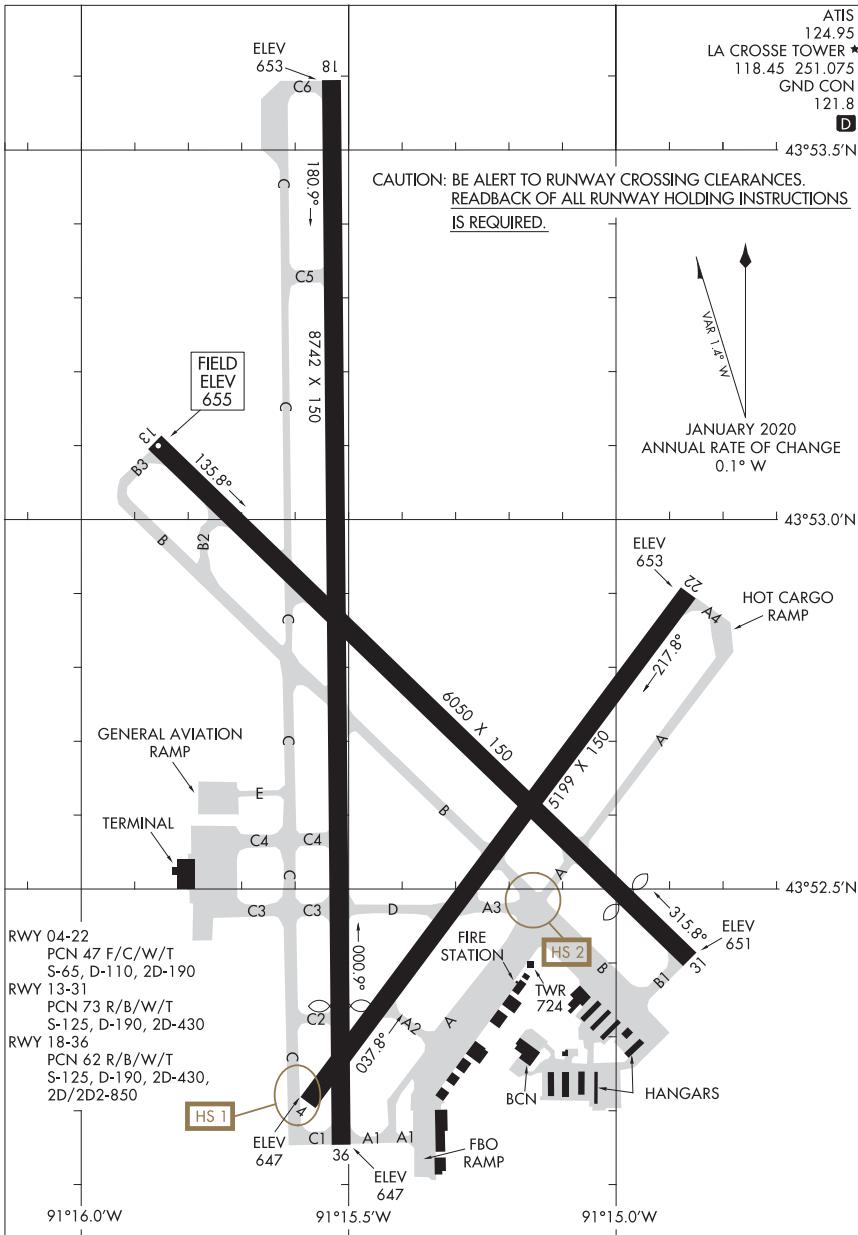
23278

KENOSHA, WISCONSIN  
KENOSHA RGNL(E) NW

22139

## AIRPORT DIAGRAM

AI-219 (FAA)

LA CROSSE RGNL (LSE)  
LA CROSSE, WISCONSIN

## AIRPORT DIAGRAM

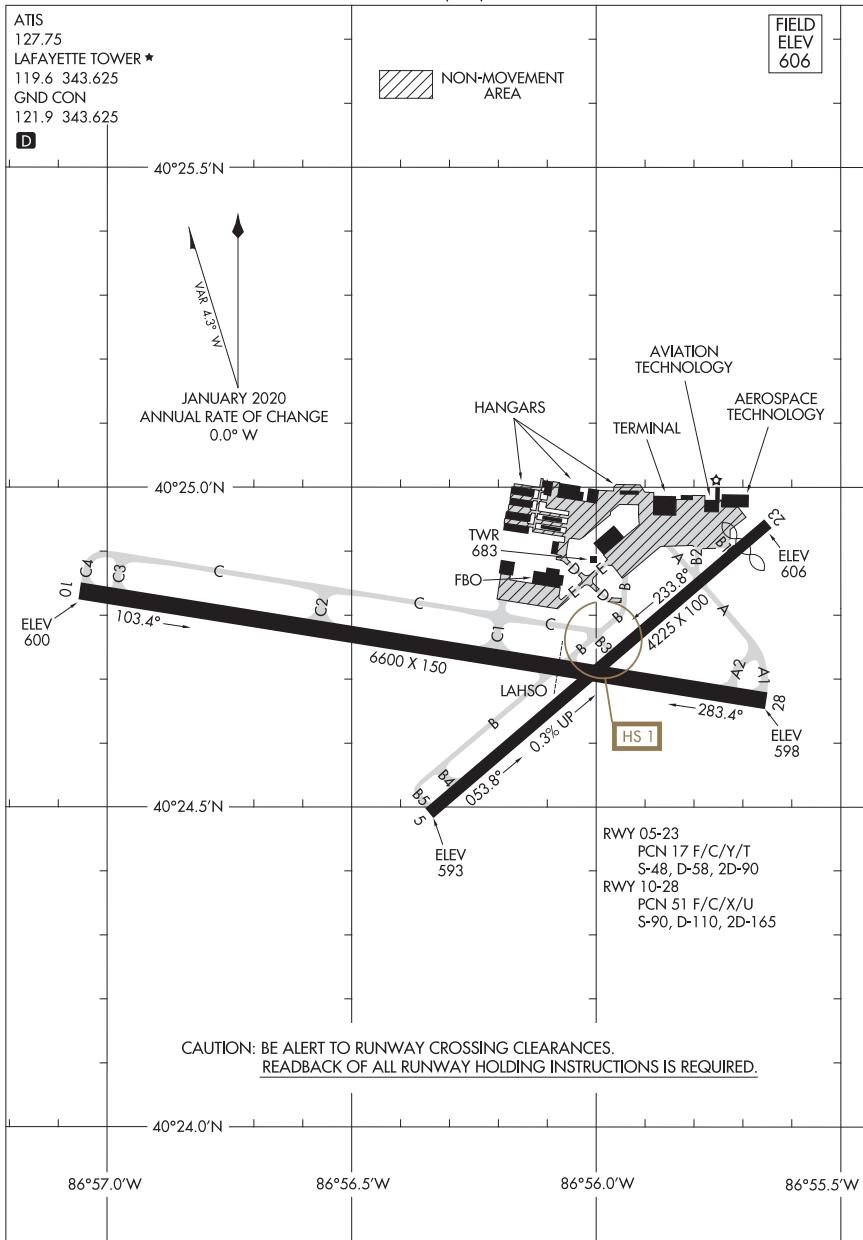
22139

LA CROSSE, WISCONSIN  
LA CROSSE RGNL (LSE)

23334

## AIRPORT DIAGRAM

AL-220 (FAA)

PURDUE UNIVERSITY (LAF)  
LAFAYETTE, INDIANA

## AIRPORT DIAGRAM

23334

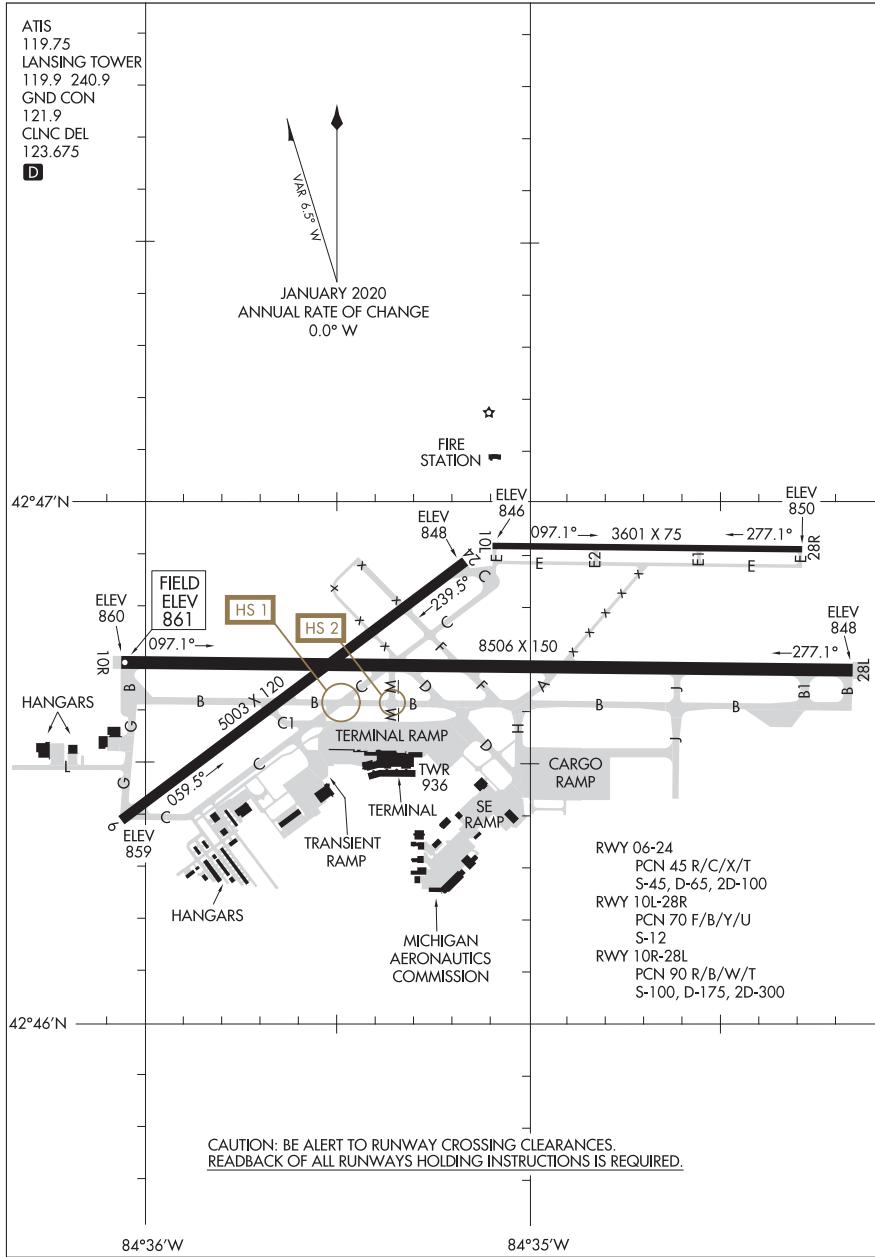
LAFAYETTE, INDIANA  
PURDUE UNIVERSITY (LAF)

22363

# AIRPORT DIAGRAM

AL-224 (FAA)

CAPITAL REGION INTL (LAN)  
LANSING, MICHIGAN



## AIRPORT DIAGRAM

22363

LANSING, MICHIGAN  
CAPITAL REGION INTL (LAN)

21336

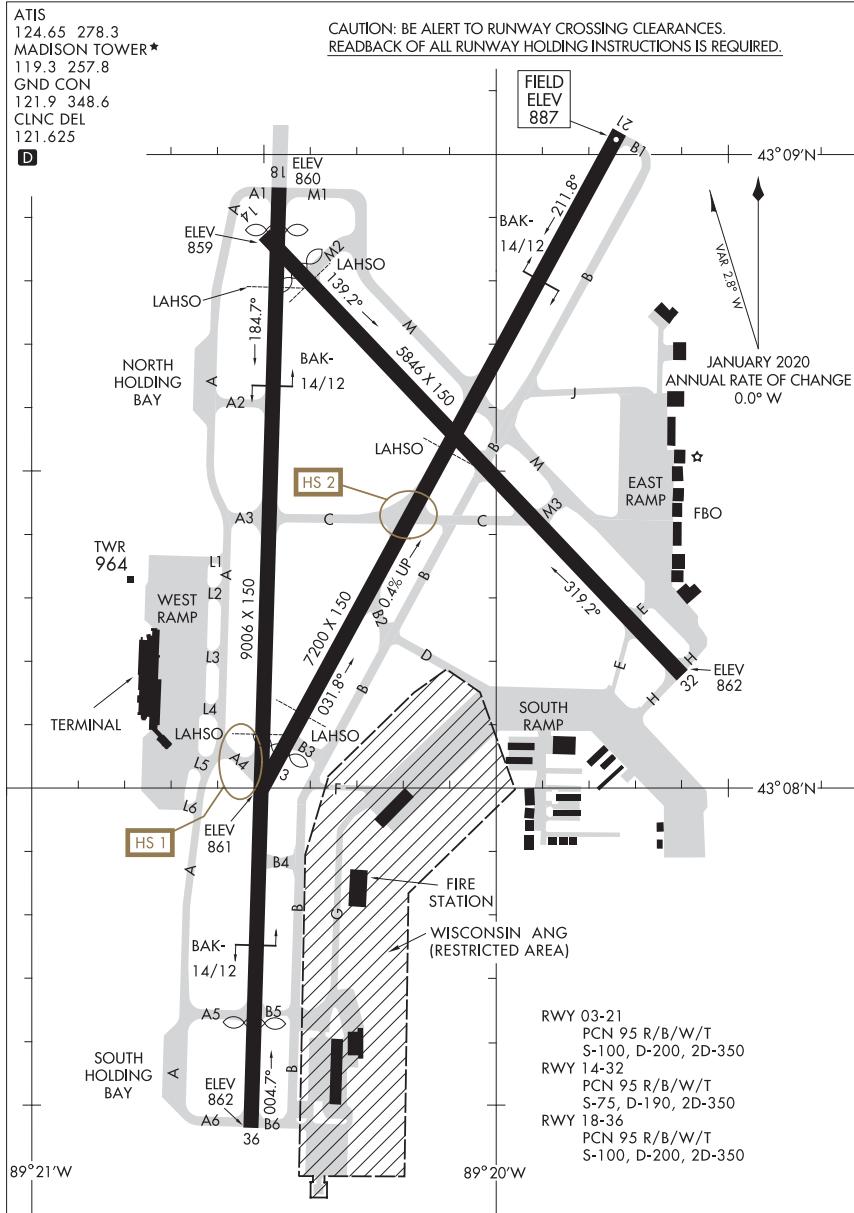
# AIRPORT DIAGRAM

AI-245 (FAA)

DANE COUNTY RGNL/TRUAX FLD (MSN)  
MADISON, WISCONSIN

ATIS  
124.65 278.3  
MADISON TOWER★  
119.3 257.8  
GND CON  
121.9 348.6  
CLNC DEL  
121.625

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



## AIRPORT DIAGRAM

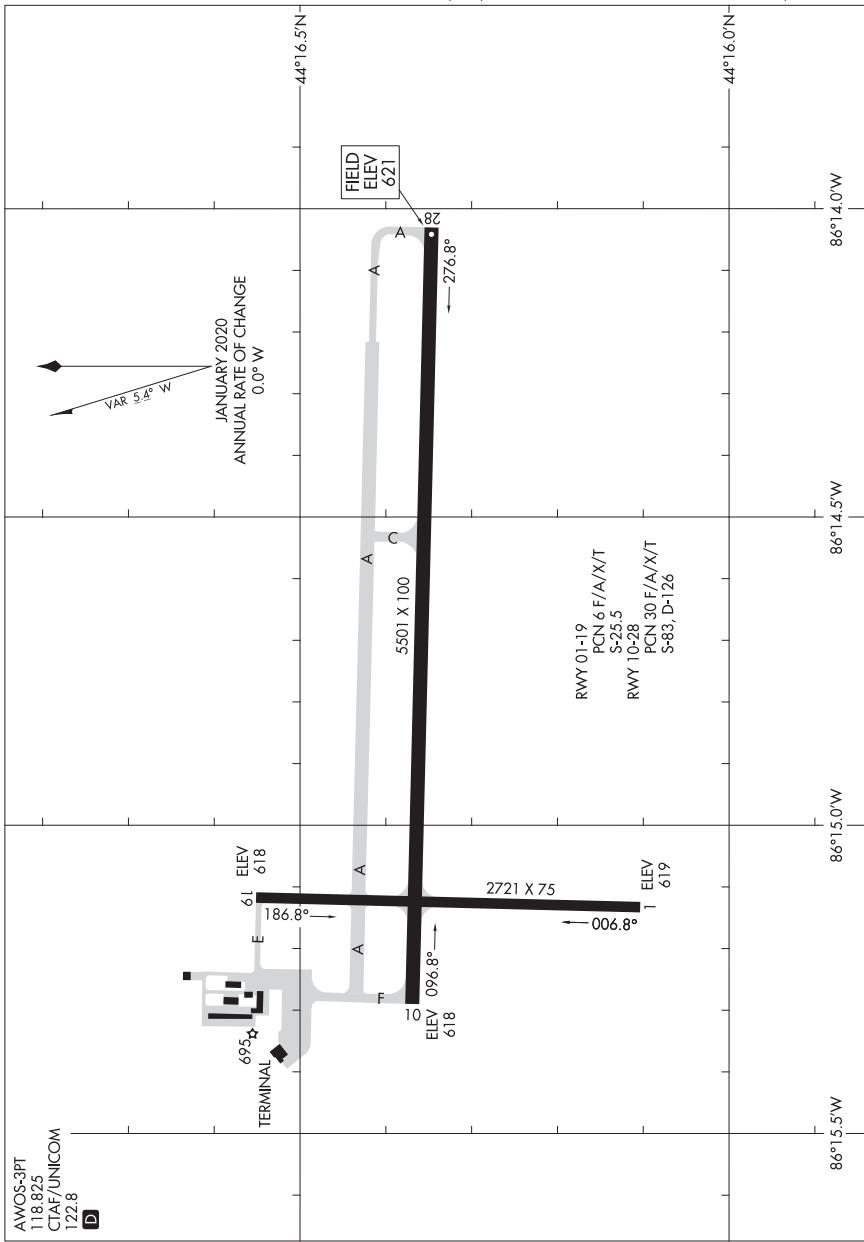
21336

MADISON, WISCONSIN  
DANE COUNTY RGNL/TRUAX FLD (MSN)

21336

## AIRPORT DIAGRAM

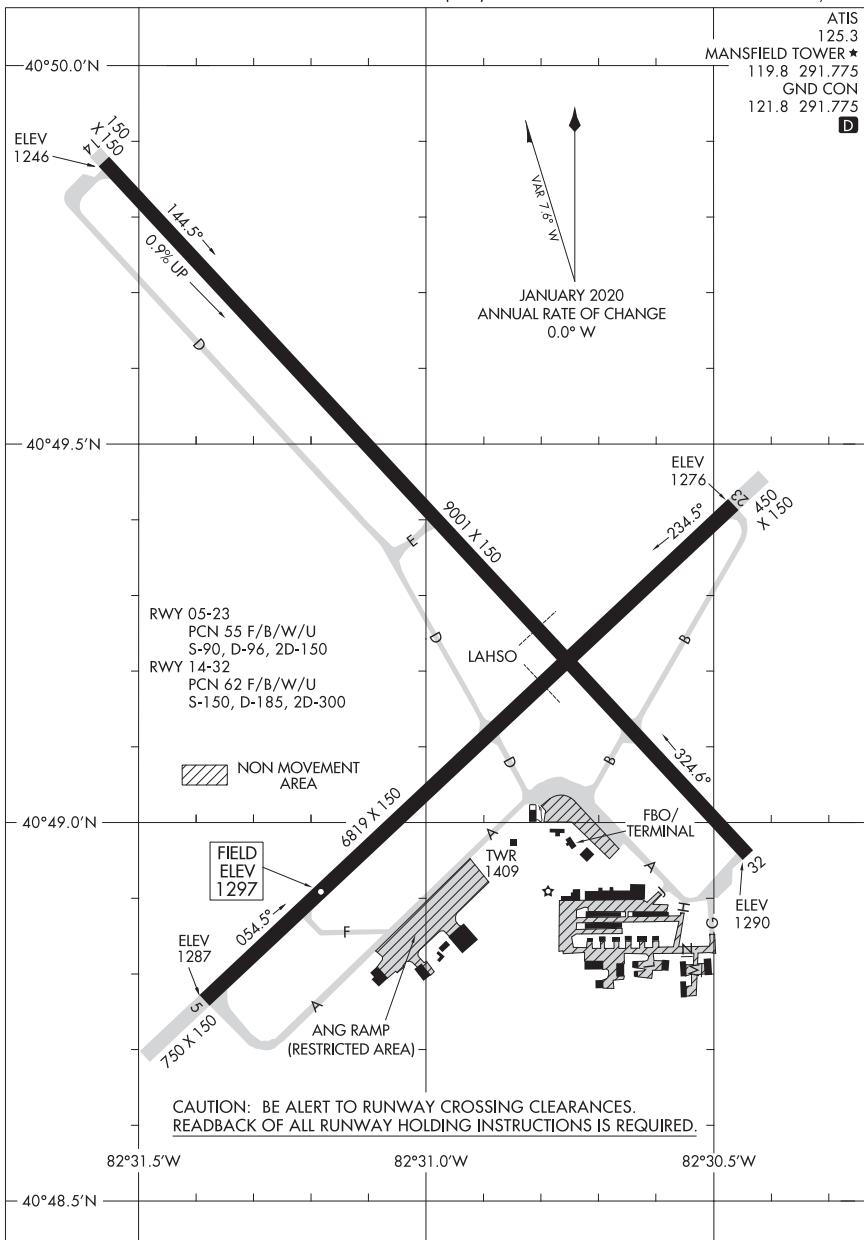
AL-5257 (FAA)

MANISTEE COUNTY/BLACKER (MBL)  
MANISTEE, MICHIGAN

22195

## AIRPORT DIAGRAM

AL-860 (FAA)

MANSFIELD LAHM RGNL (MFD)  
MANSFIELD, OHIO

## AIRPORT DIAGRAM

22195

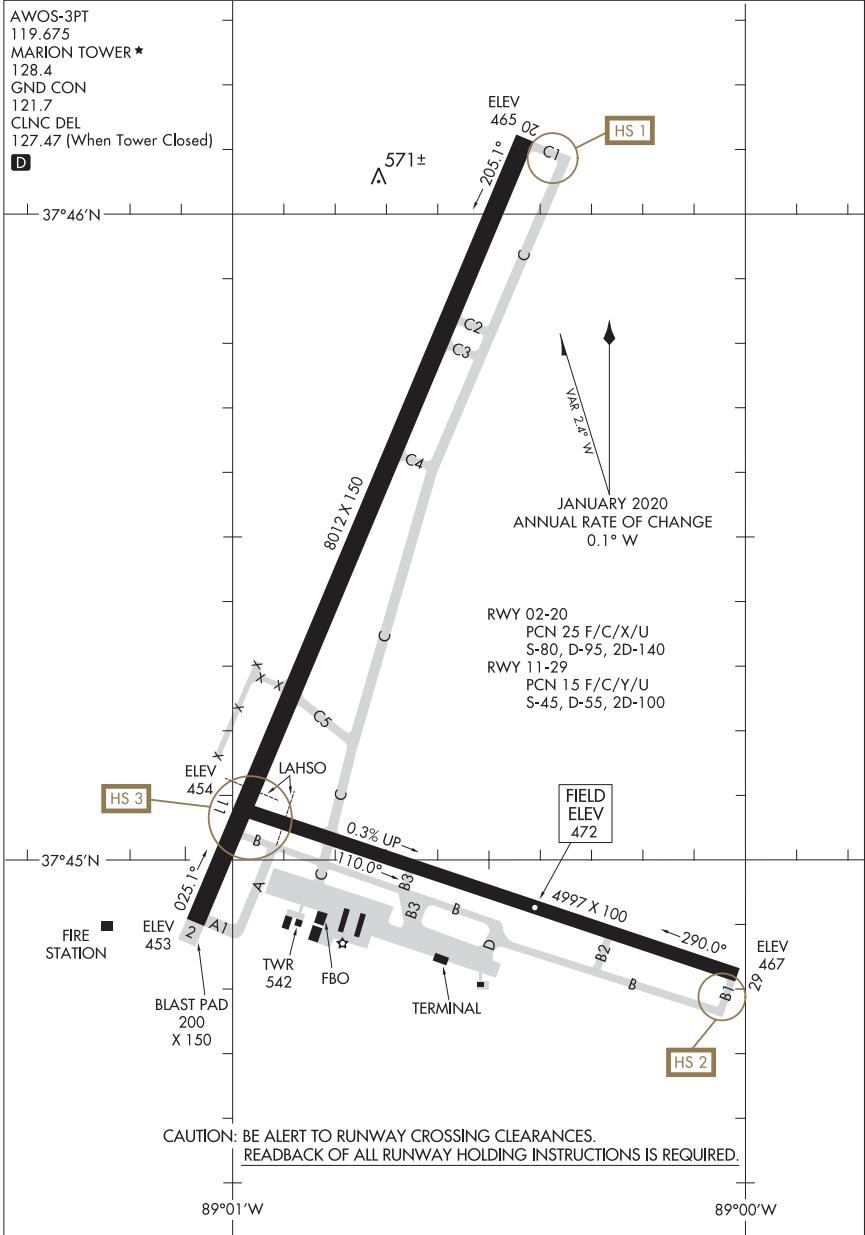
MANSFIELD, OHIO  
MANSFIELD LAHM RGNL (MFD)

23334

## AIRPORT DIAGRAM

VETERANS AIRPORT OF SOUTHERN ILLINOIS (MWA)  
AL-5215 (FAA)

MARION, ILLINOIS



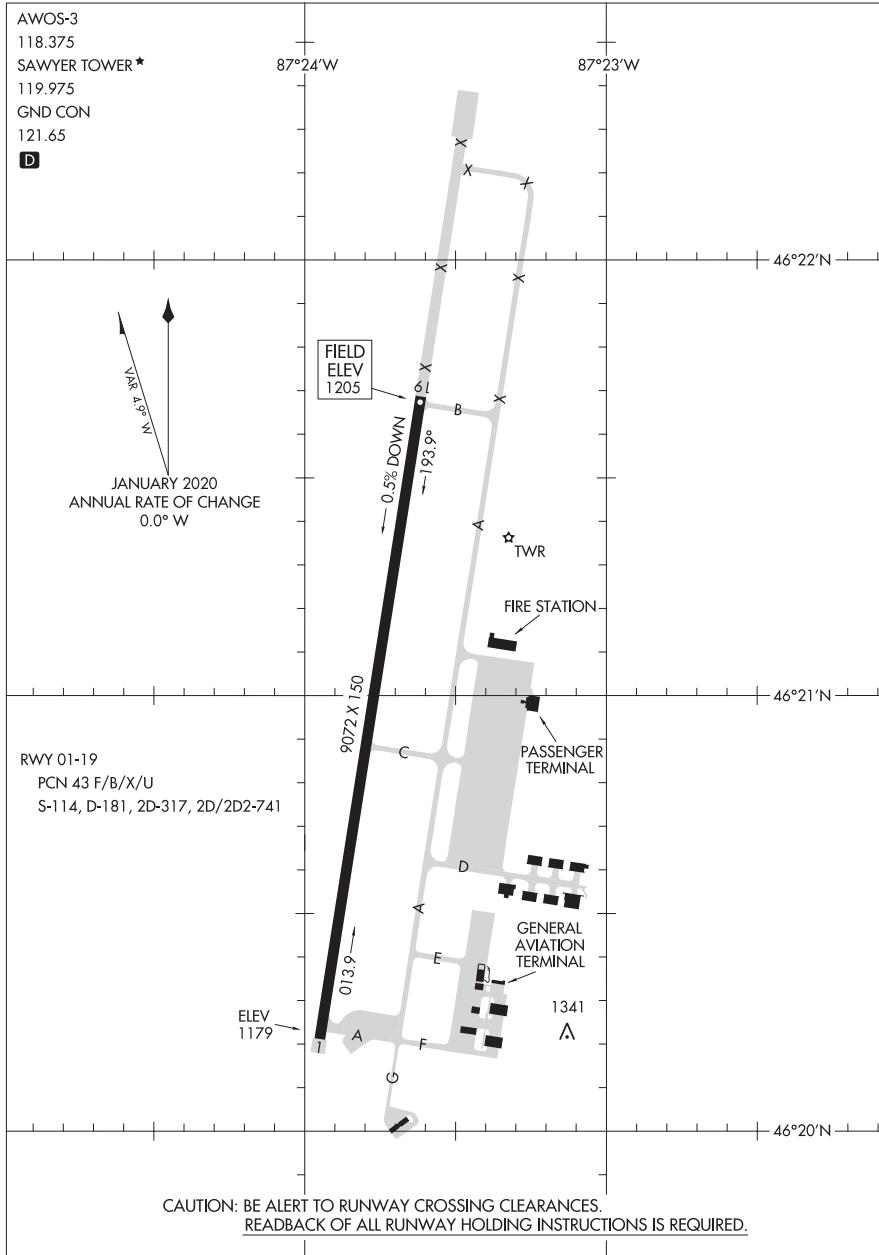
AIRPORT DIAGRAM

23334

VETERANS AIRPORT OF SOUTHERN ILLINOIS (MWA)

23166

## AIRPORT DIAGRAM

MARQUETTE/SAWYER RGNL (SAW)  
MARQUETTE, MICHIGAN

## AIRPORT DIAGRAM

23166

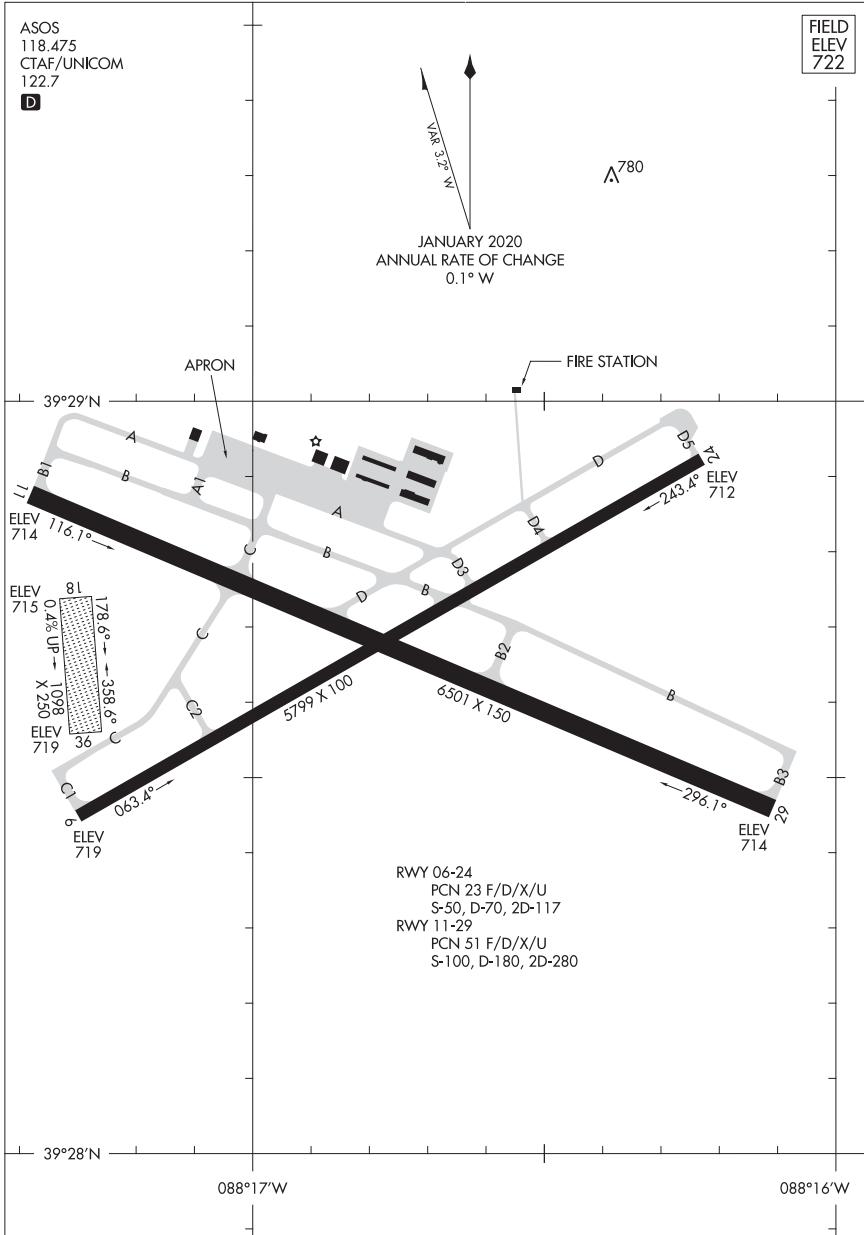
MARQUETTE, MICHIGAN  
MARQUETTE/SAWYER RGNL (SAW)

22027

# AIRPORT DIAGRAM

AL-5180 (FAA)

**COLES COUNTY MEML (MTO)**  
**MATTOON/CHARLESTON, ILLINOIS**



## AIRPORT DIAGRAM

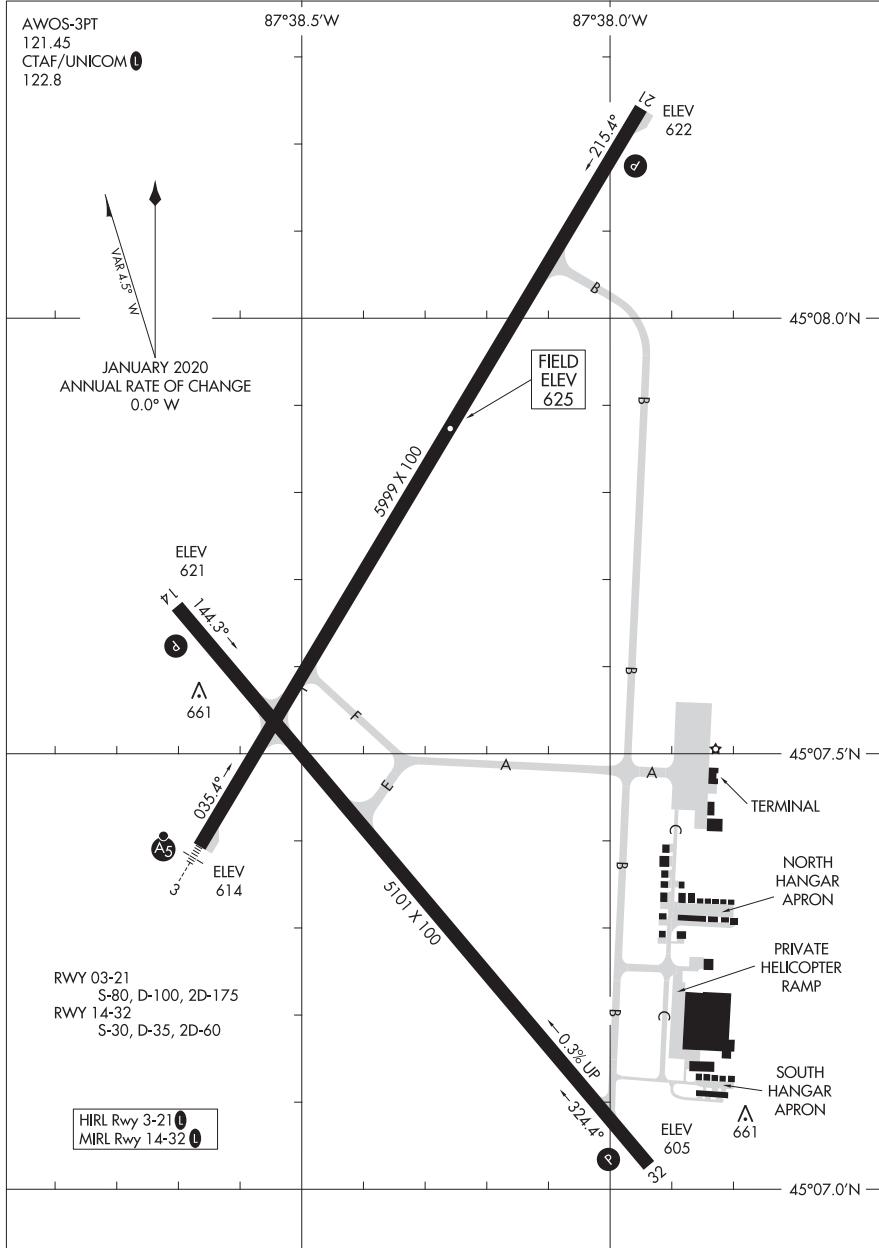
22027

MATTOON/CHARLESTON, ILLINOIS  
COLES COUNTY MEML (MTO)

23278

## AIRPORT DIAGRAM

AL-5145 (FAA)

MENOMINEE RGNL (MNM)  
MENOMINEE, MICHIGAN

## AIRPORT DIAGRAM

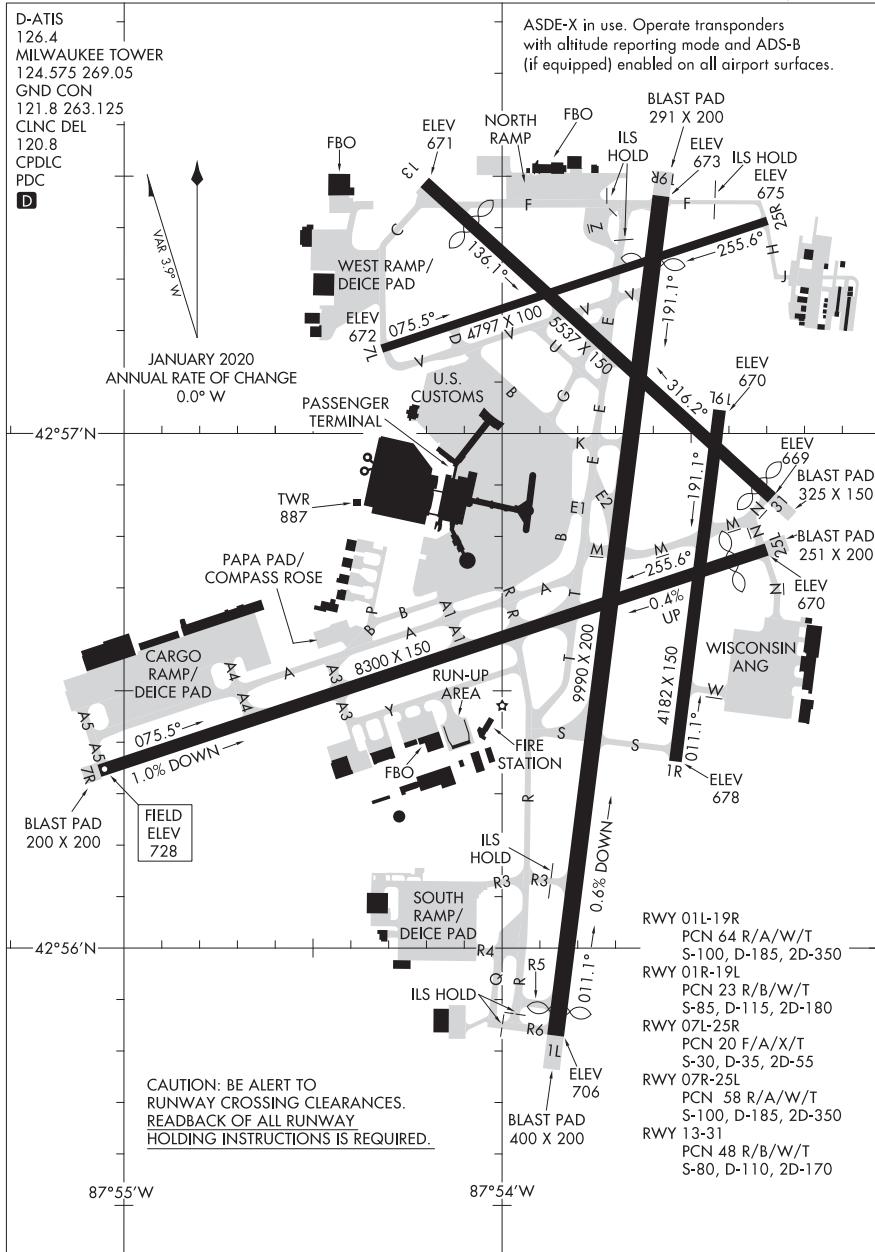
23278

MENOMINEE, MICHIGAN  
MENOMINEE RGNL (MNM)

23222

## AIRPORT DIAGRAM

AL-262 (FAA)

GENERAL MITCHELL INTL (MKE)  
MILWAUKEE, WISCONSIN

## AIRPORT DIAGRAM

23222

GENERAL MITCHELL INTL (MKE)  
MILWAUKEE, WISCONSIN

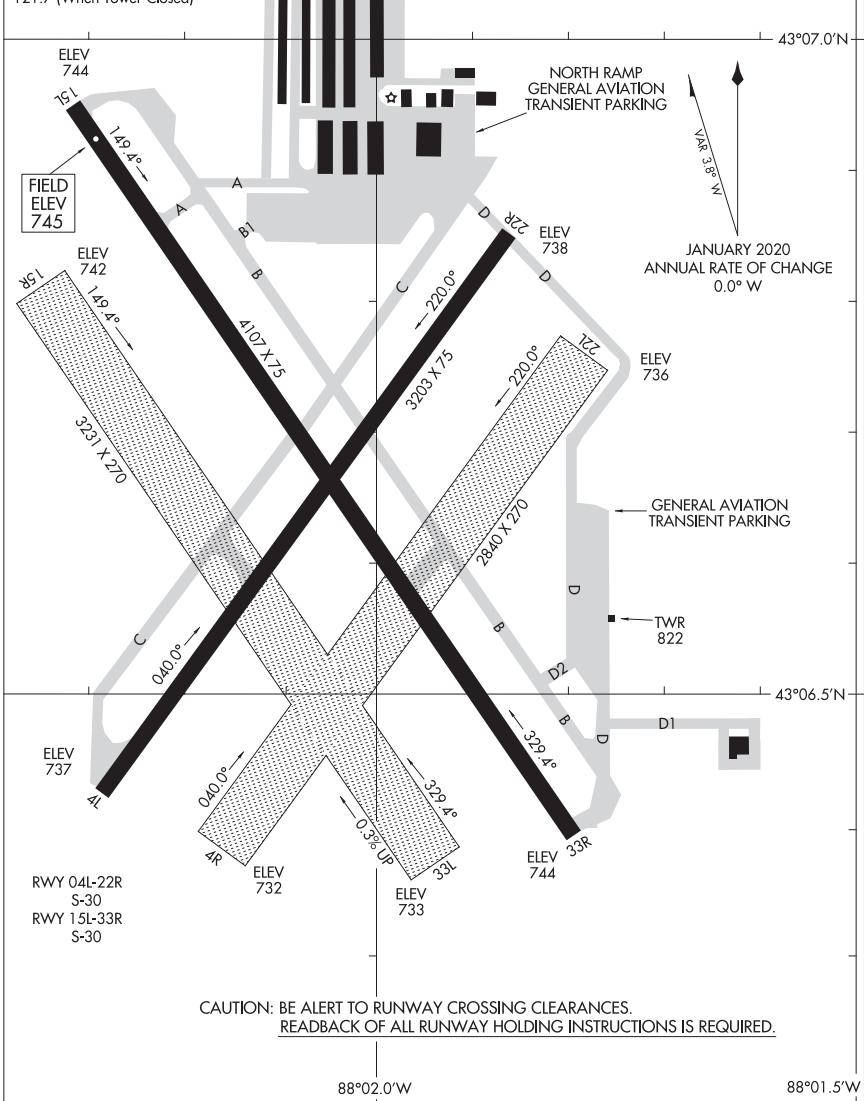
23110

## AIRPORT DIAGRAM

AL-5077 (FAA)

LAWRENCE J TIMMERMAN (MWC)  
MILWAUKEE, WISCONSIN

ATIS  
128.3  
TIMMERMANN TOWER★  
120.5  
GND CON  
121.7  
CLNC DEL  
121 Z (When Tower Closed)



## AIRPORT DIAGRAM

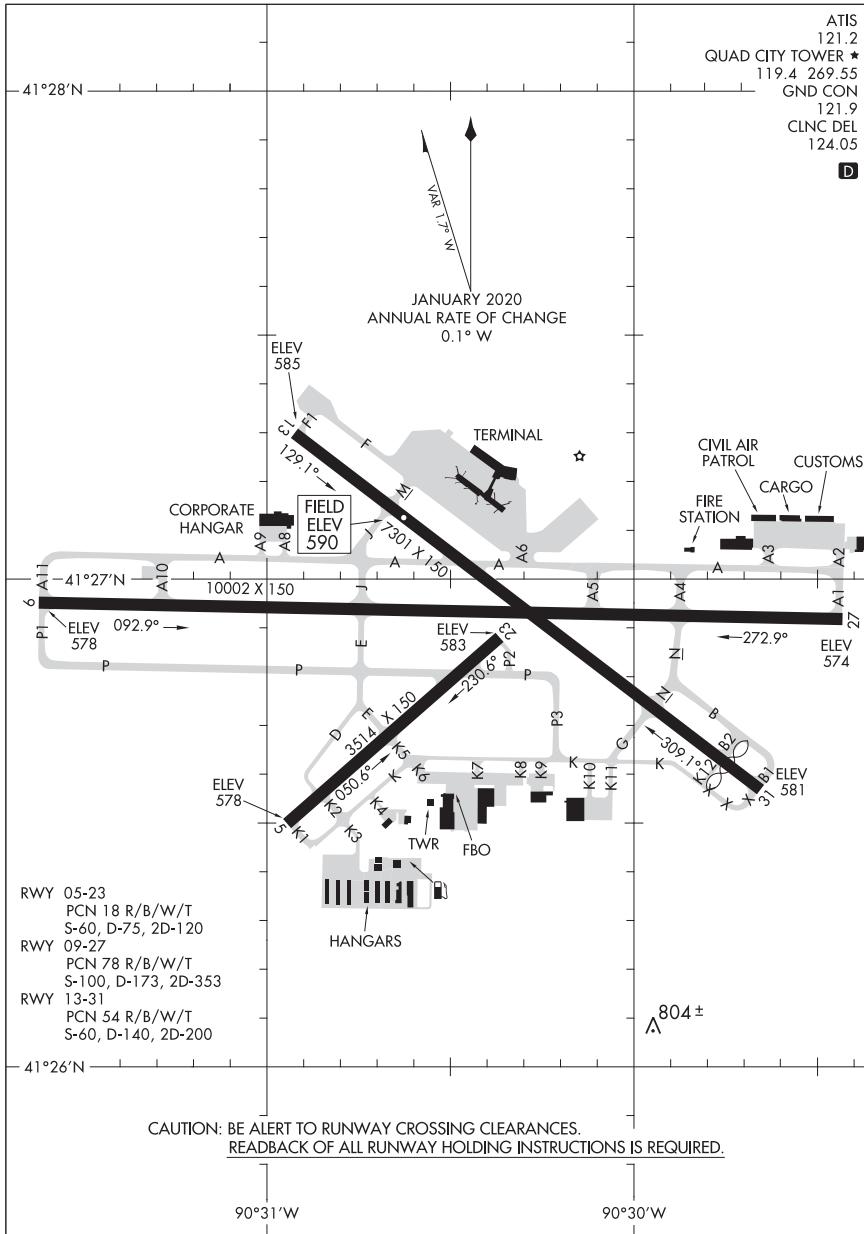
23110

MILWAUKEE, WISCONSIN  
LAWRENCE J TIMMERMAN (MWC)

23222

## AIRPORT DIAGRAM

AL-269 (FAA)

QUAD CITIES INT'L (MLI)  
MOLINE, ILLINOIS

## AIRPORT DIAGRAM

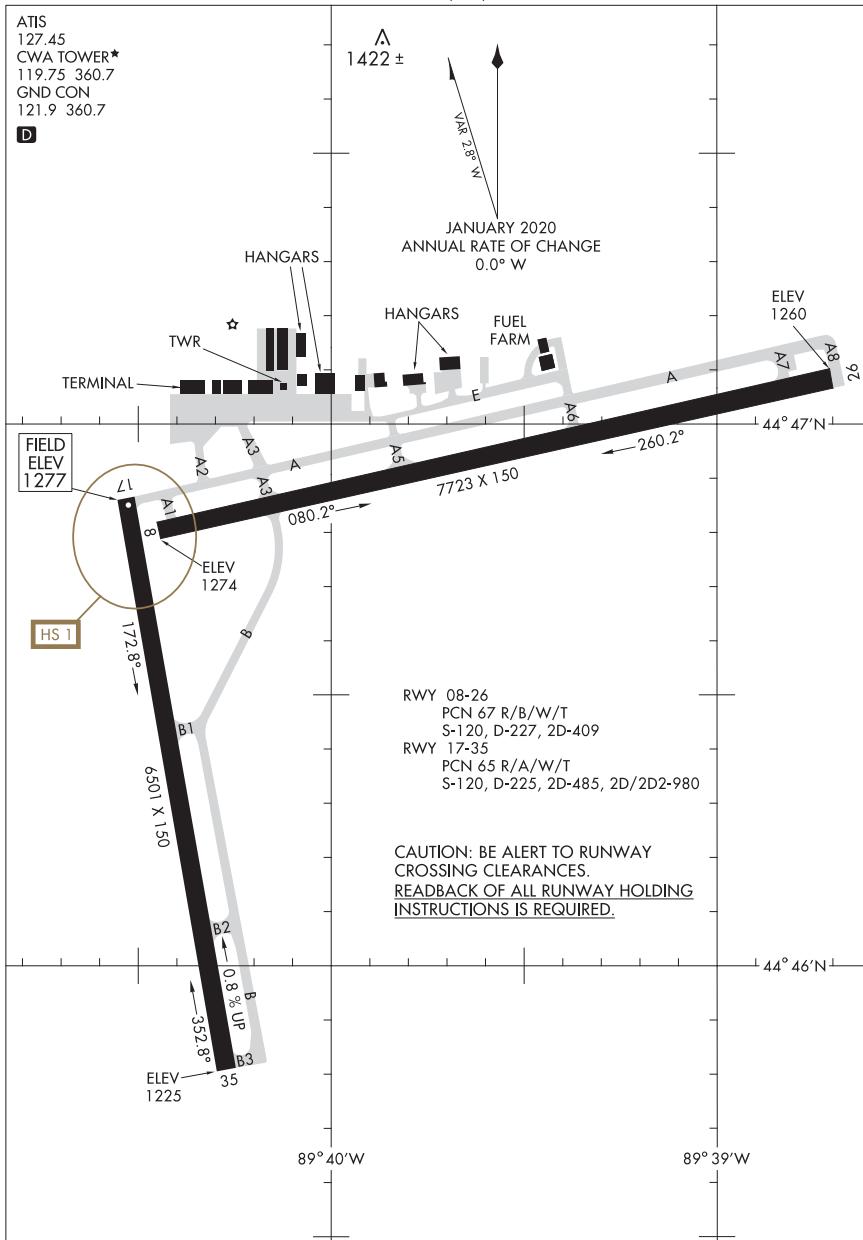
23222

MOLINE, ILLINOIS  
QUAD CITIES INT'L (MLI)

23222

## AIRPORT DIAGRAM

AL-5674 (FAA)

CENTRAL WISCONSIN (CWA)  
MOSINEE, WISCONSIN

## AIRPORT DIAGRAM

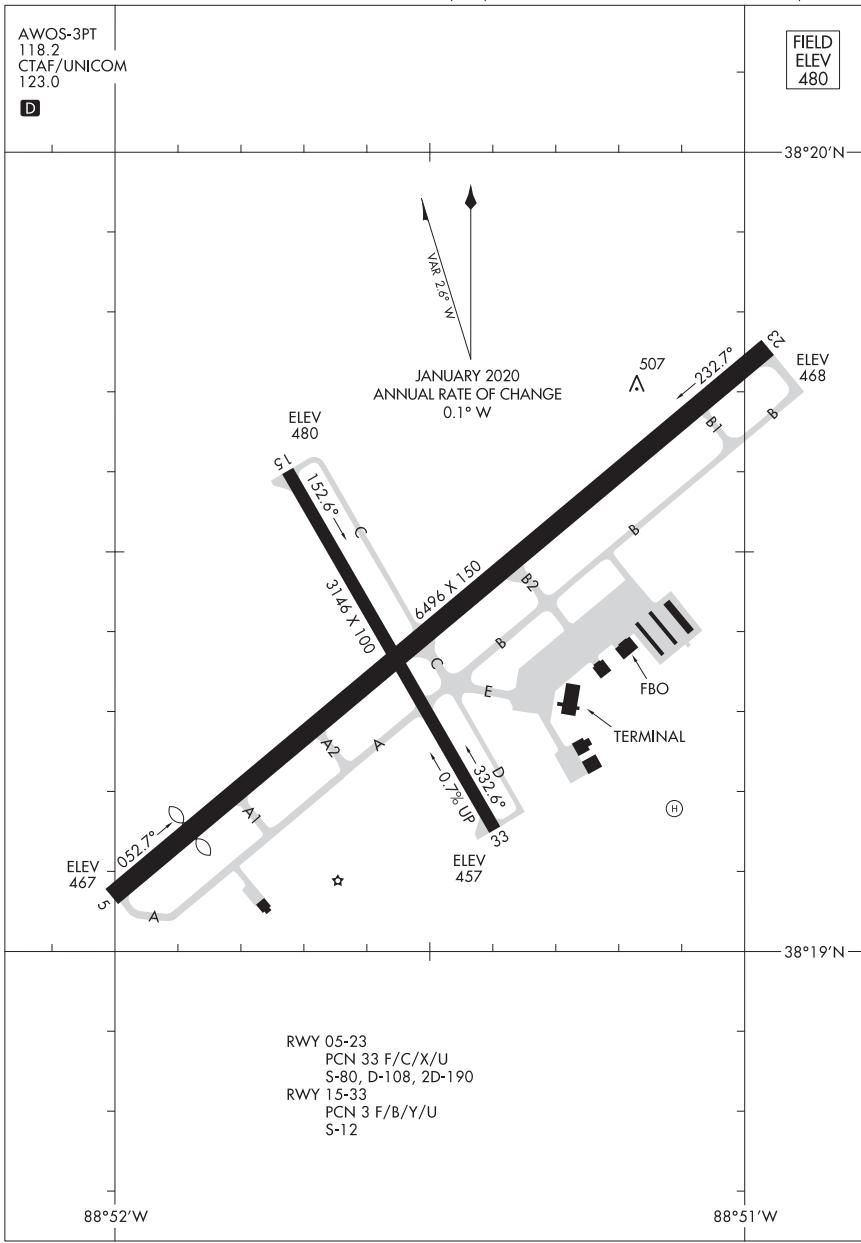
23222

MOSINEE, WISCONSIN  
CENTRAL WISCONSIN (CWA)

22083

## AIRPORT DIAGRAM

AL-5317 (FAA)

MOUNT VERNON (MVN)  
MOUNT VERNON, ILLINOIS

## AIRPORT DIAGRAM

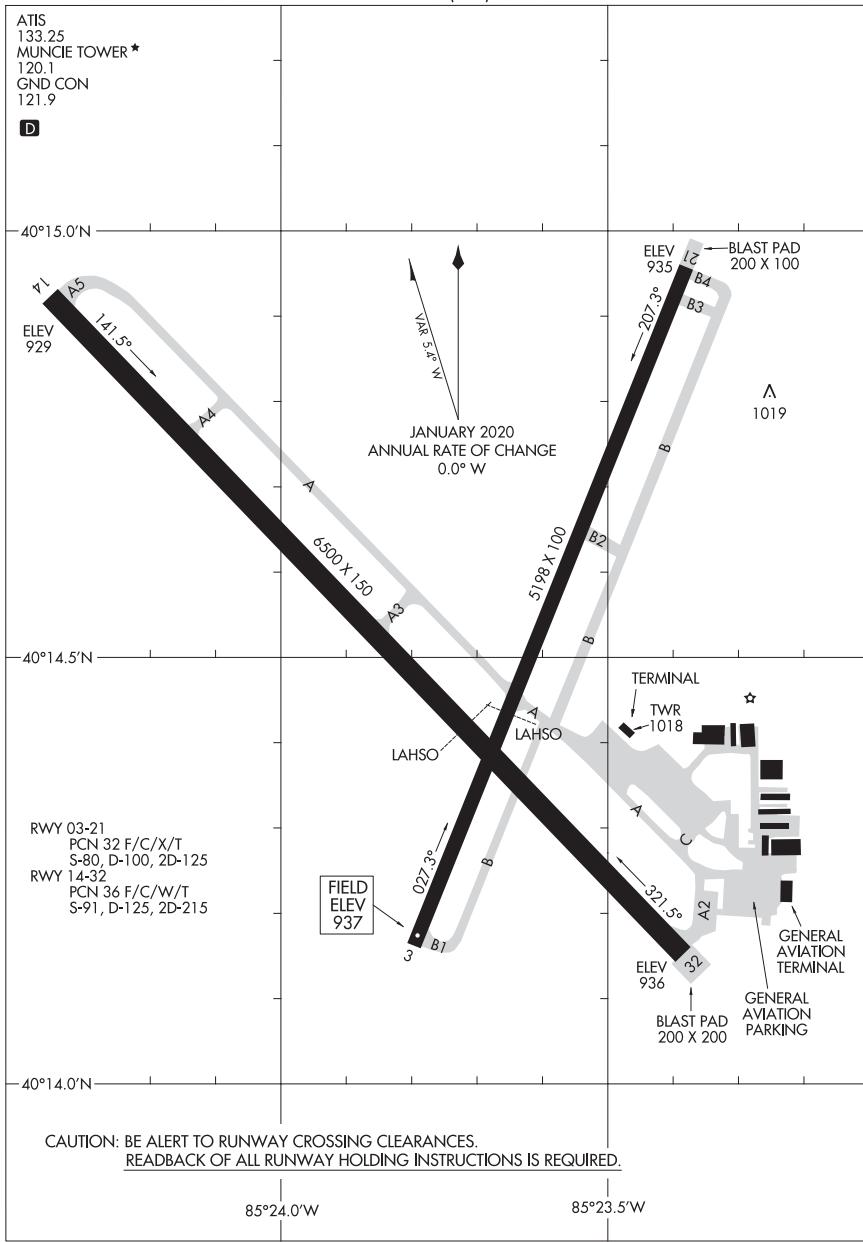
22083

MOUNT VERNON, ILLINOIS  
MOUNT VERNON(MVN)

23054

## AIRPORT DIAGRAM

AL-5011 (FAA)

DELAWARE COUNTY RGNL (MIE)  
MUNCIE, INDIANA

## AIRPORT DIAGRAM

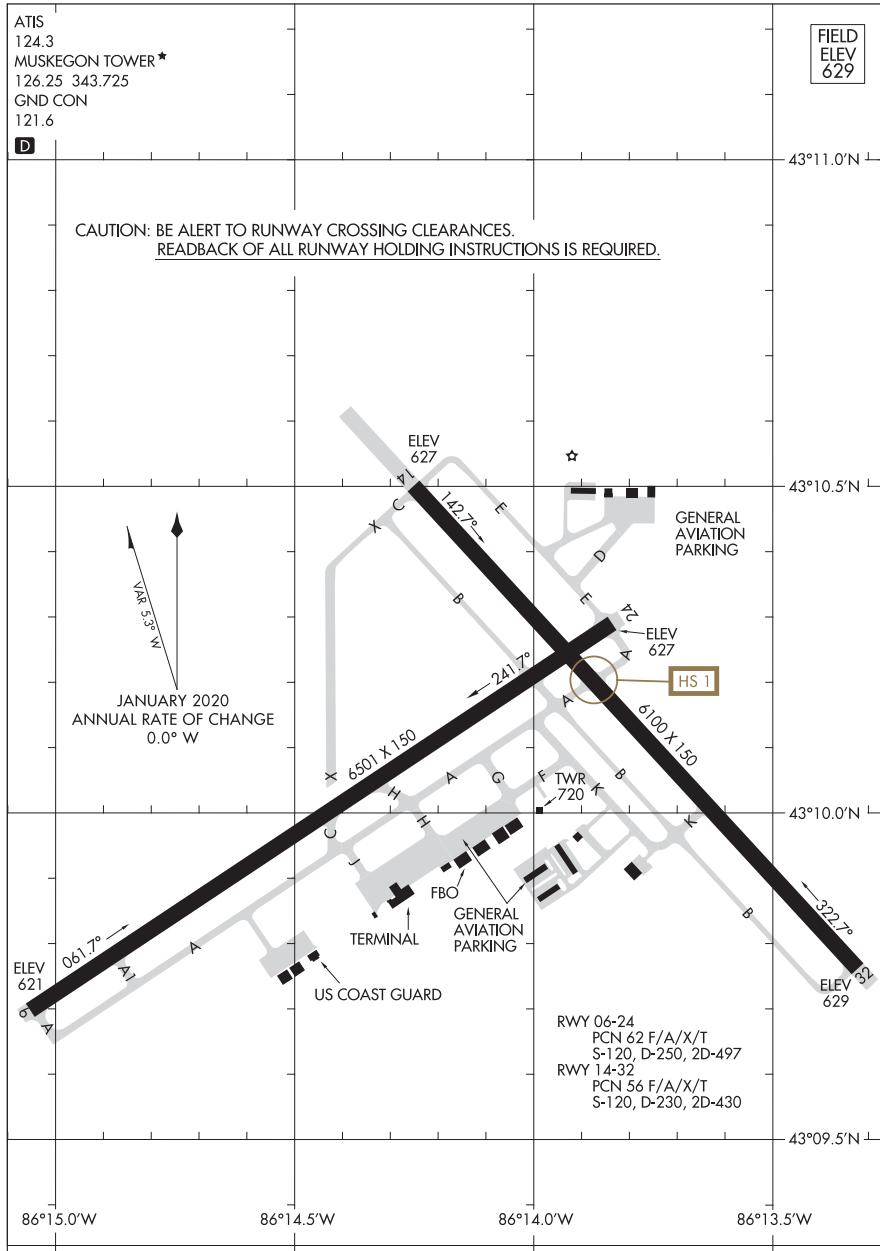
23054

MUNCIE, INDIANA  
DELAWARE COUNTY RGNL (MIE)

20366

## AIRPORT DIAGRAM

AL-278 (FAA)

MUSKEGON COUNTY (MKG)  
MUSKEGON, MICHIGAN

## AIRPORT DIAGRAM

20366

MUSKEGON, MICHIGAN  
MUSKEGON COUNTY (MKG)

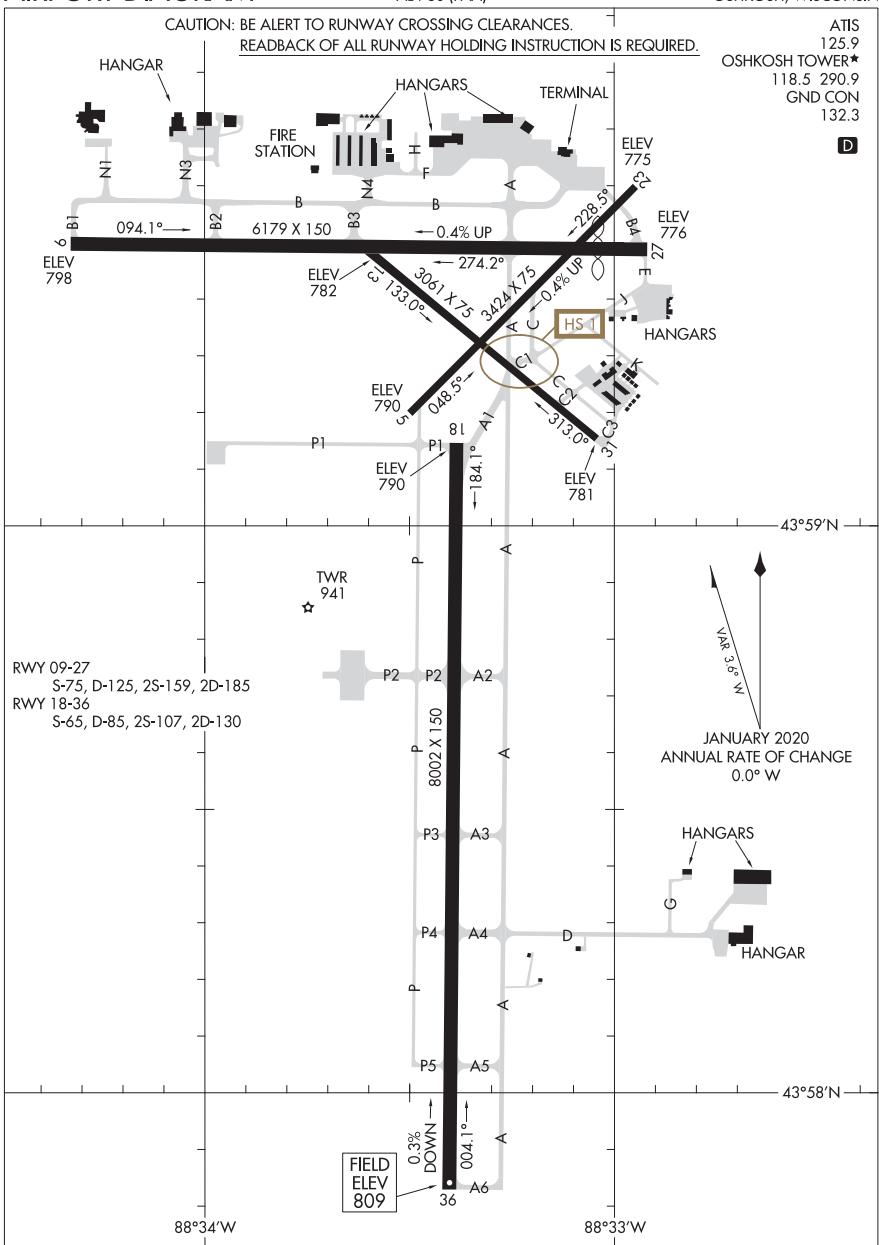
23222

## AIRPORT DIAGRAM

AL-730 (FAA)

WITTMAN RGNL (OSH)

OSHKOSH, WISCONSIN

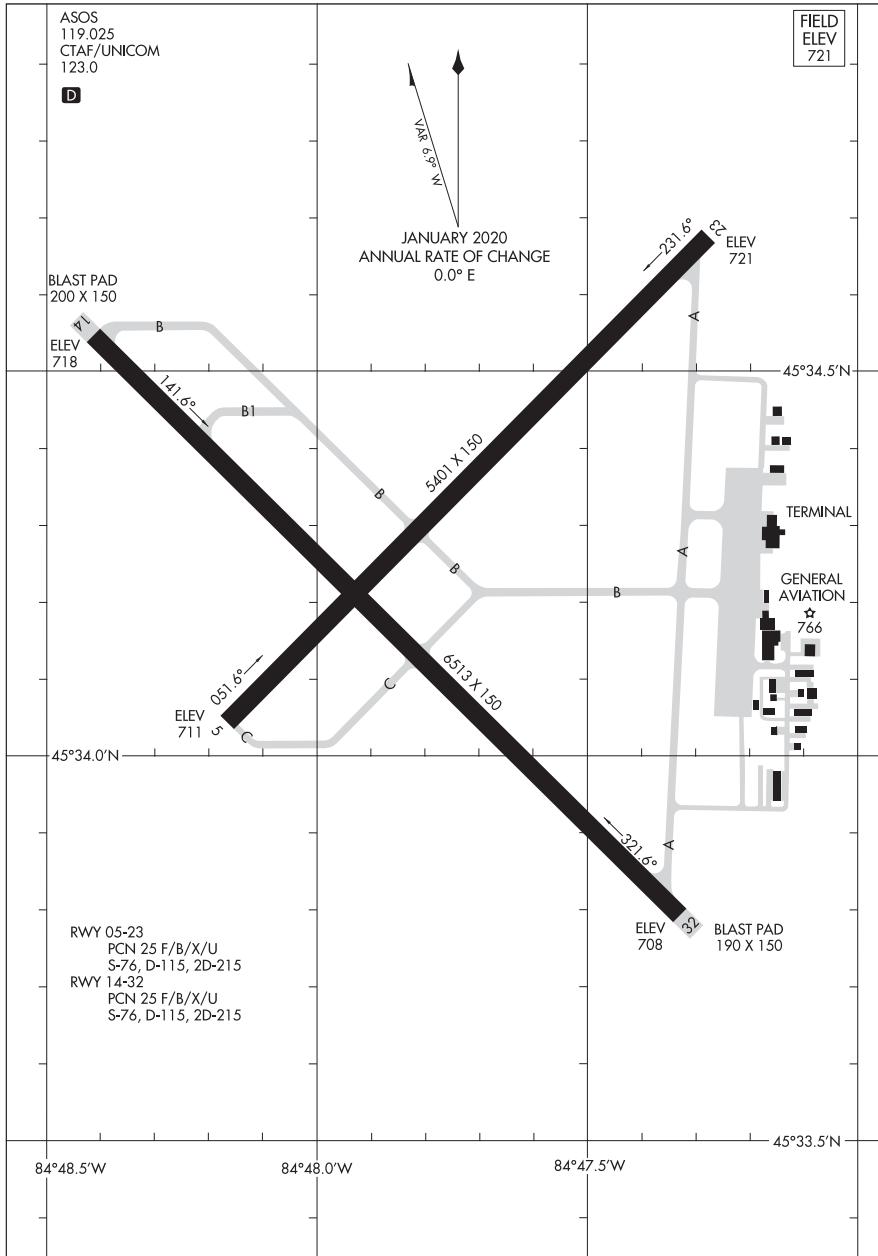


## AIRPORT DIAGRAM

23222

21112

## AIRPORT DIAGRAM

PELLSTON RGNL/EMMET COUNTY (PLN)  
AL-647 (FAA)

AIRPORT DIAGRAM

21112

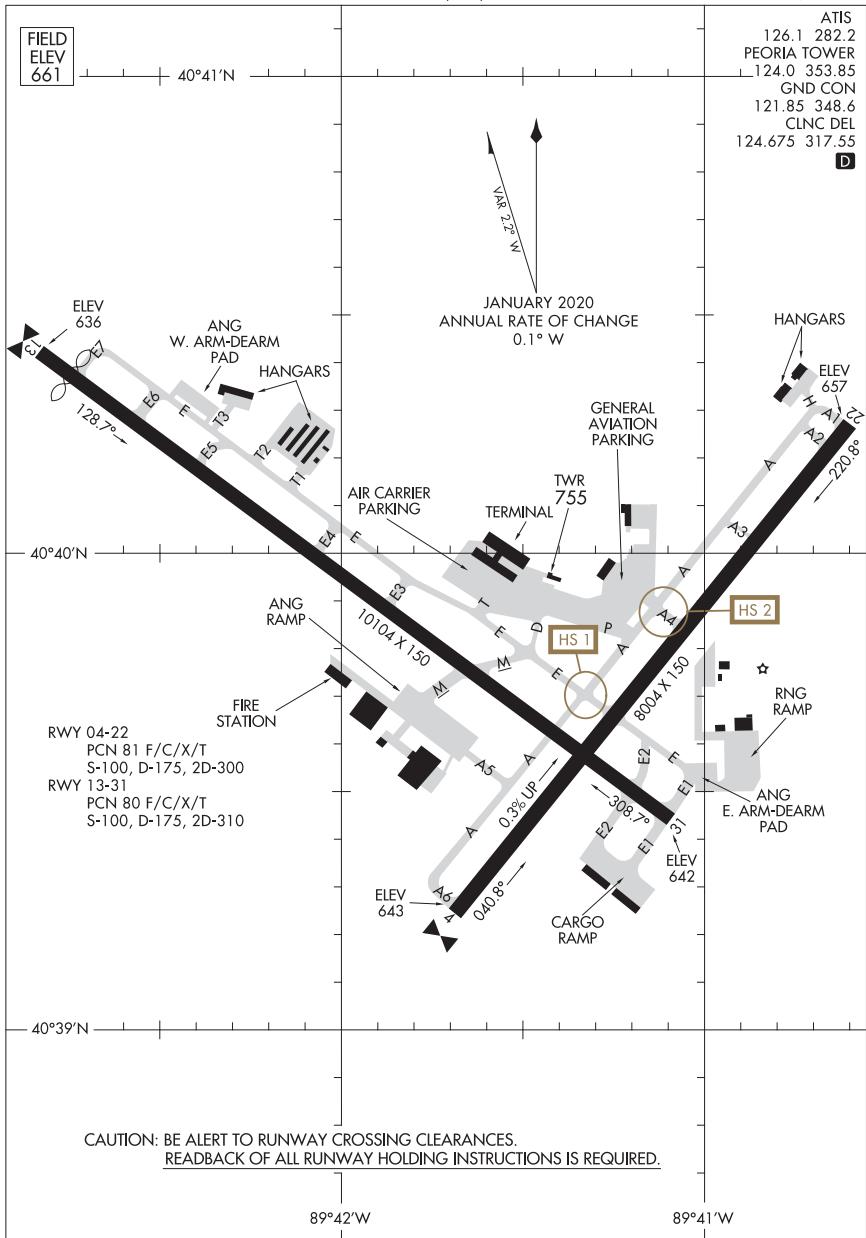
PELLSTON, MICHIGAN  
PELLSTON RGNL/EMMET COUNTY (PLN)

22251

## AIRPORT DIAGRAM

GENERAL DOWNING - PEORIA INTL (PIA)  
AL-597 (FAA)

PEORIA, ILLINOIS



## AIRPORT DIAGRAM

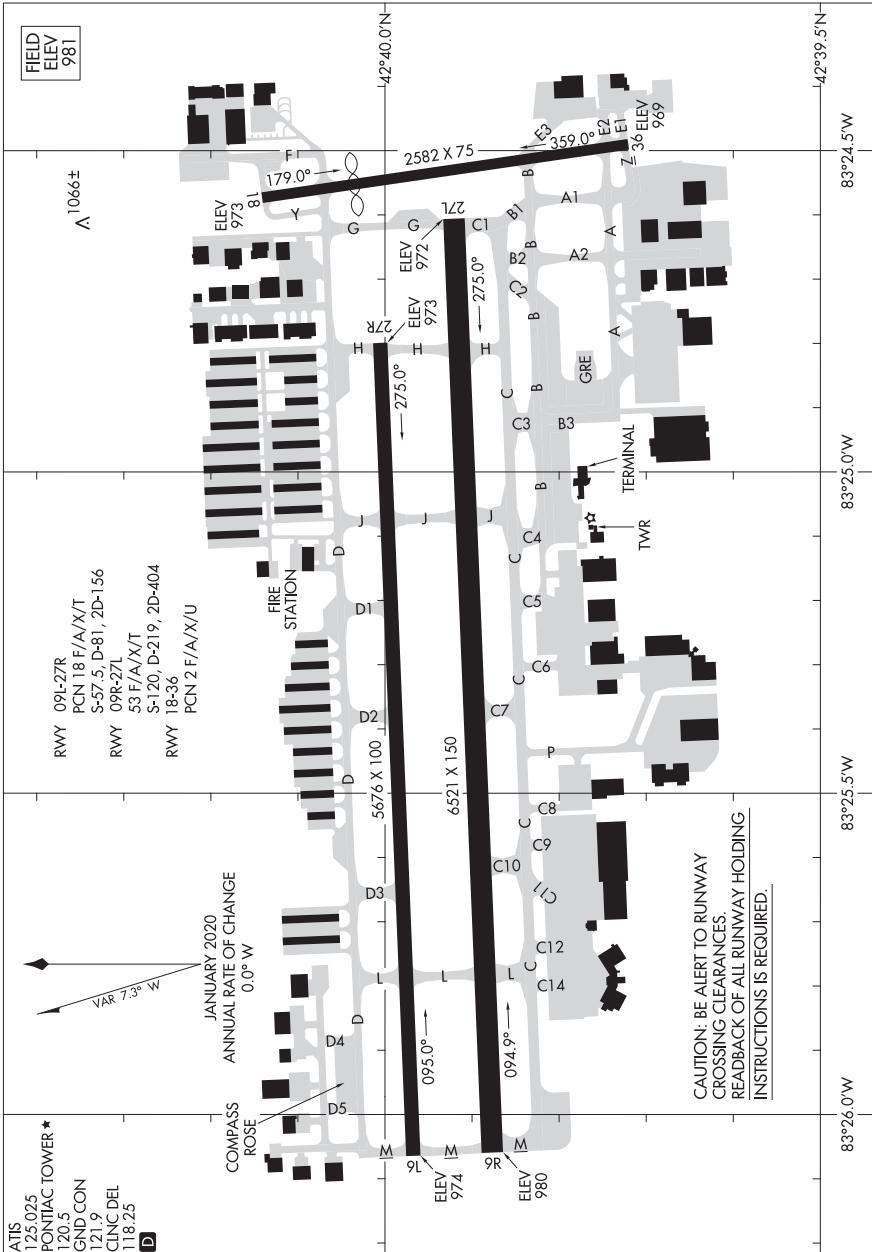
22251

GENERAL DOWNING - PEORIA INTL (PIA)

PEORIA, ILLINOIS

23222

## AIRPORT DIAGRAM

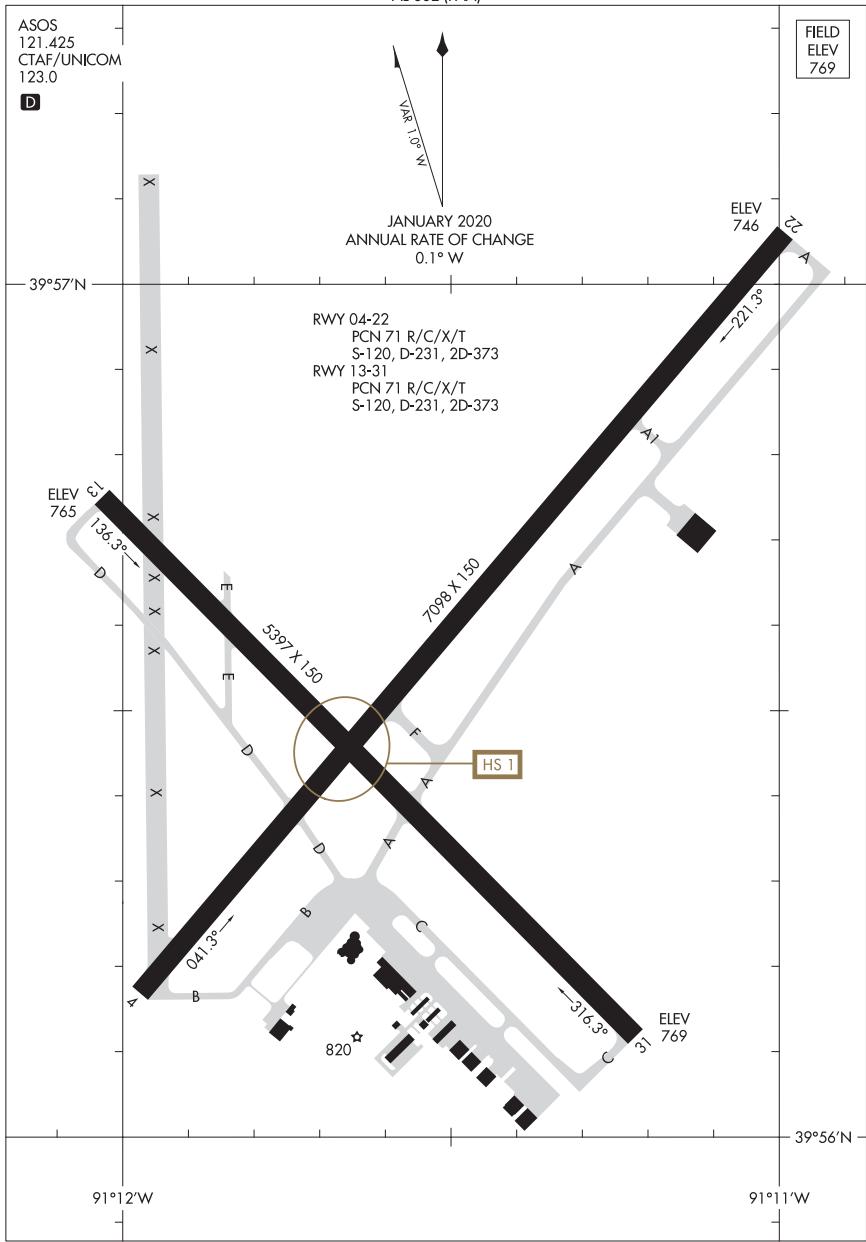


23166

## AIRPORT DIAGRAM

QUINCY RGNL-BALDWIN FLD (UIN)  
QUINCY, ILLINOIS

AL-862 (FAA)



## AIRPORT DIAGRAM

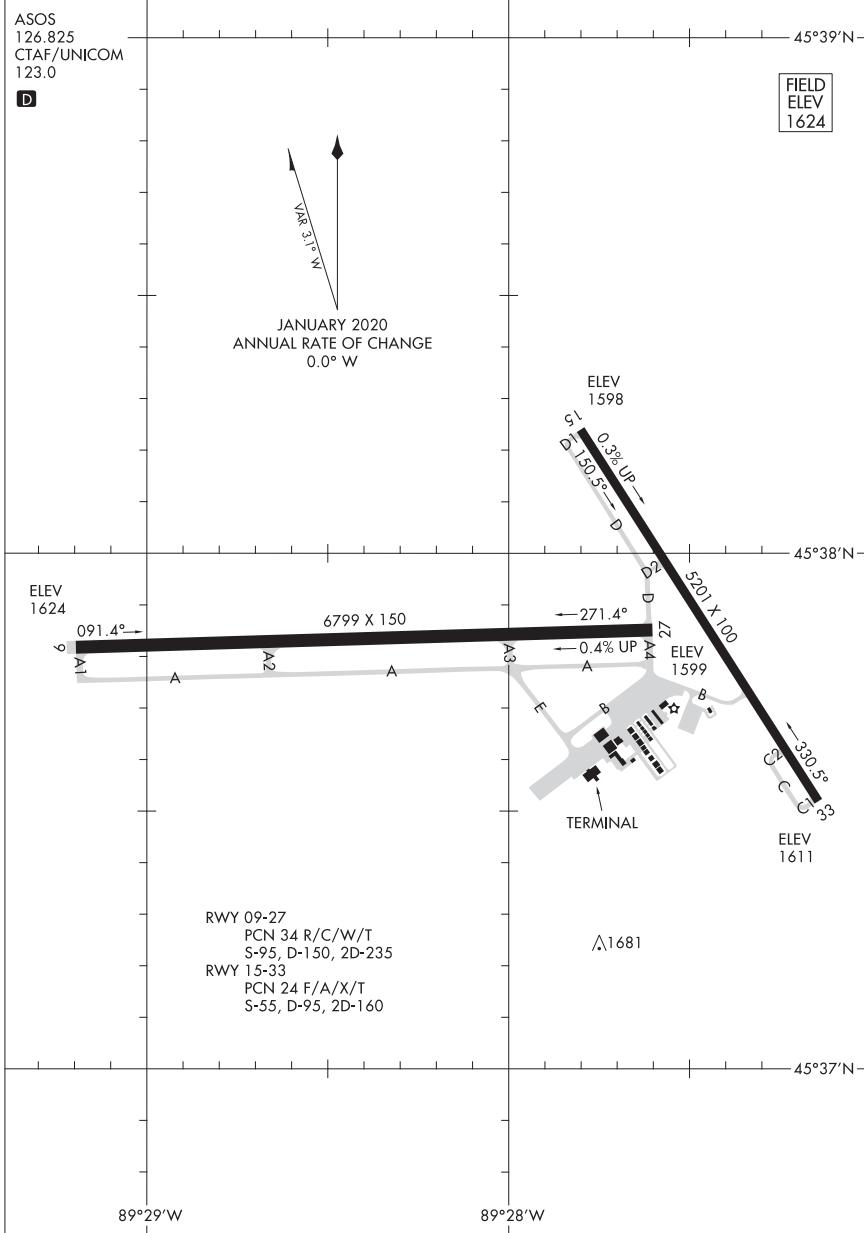
23166

QUINCY, ILLINOIS  
QUINCY RGNL-BALDWIN FLD (UIN)

21336

## AIRPORT DIAGRAM

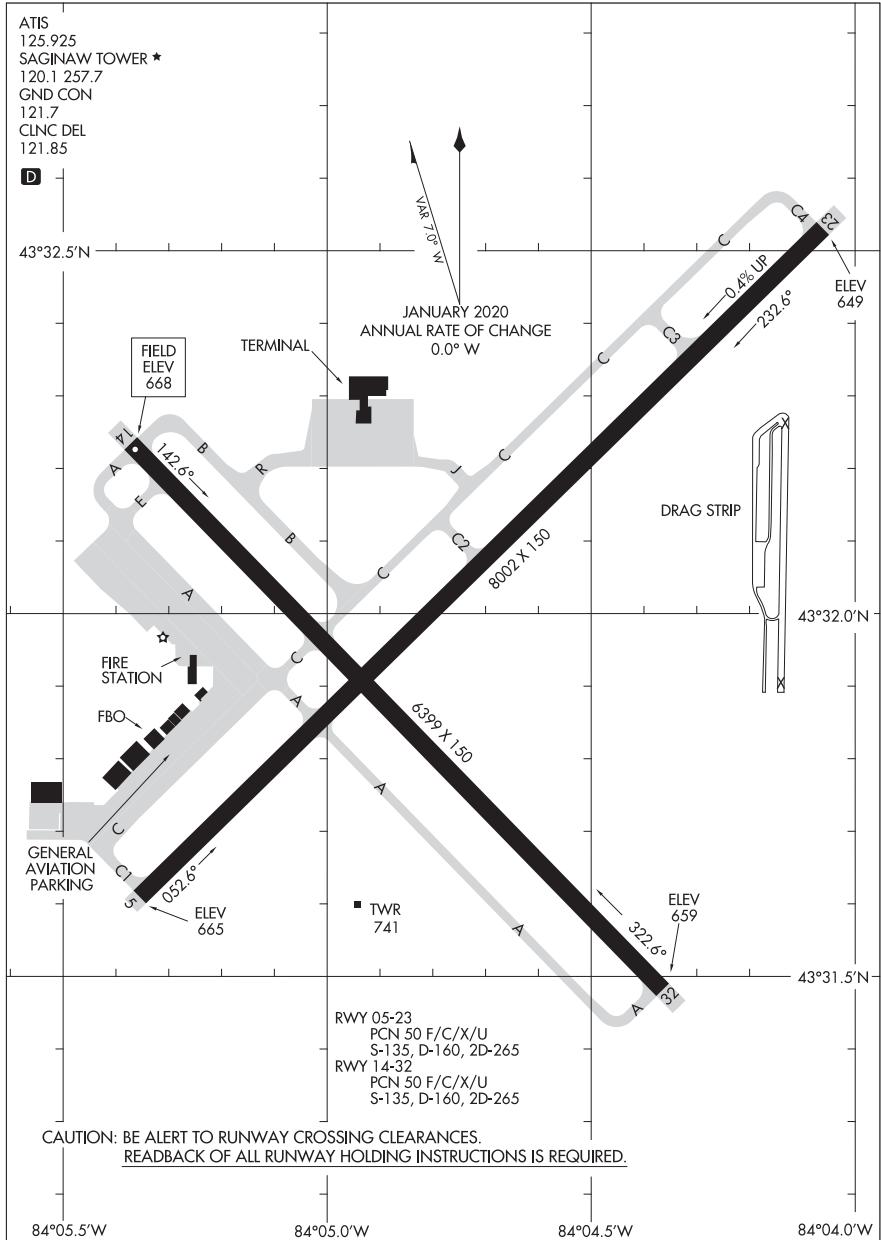
AL-5085 (FAA)

RHINELANDER/ONEIDA COUNTY (RHI)  
RHINELANDER, WISCONSIN

22251

## AIRPORT DIAGRAM

AL-648 (FAA)

MBS INTL (MBS)  
SAGINAW, MICHIGAN

## AIRPORT DIAGRAM

22251

SAGINAW, MICHIGAN  
MBS INTL (MBS)

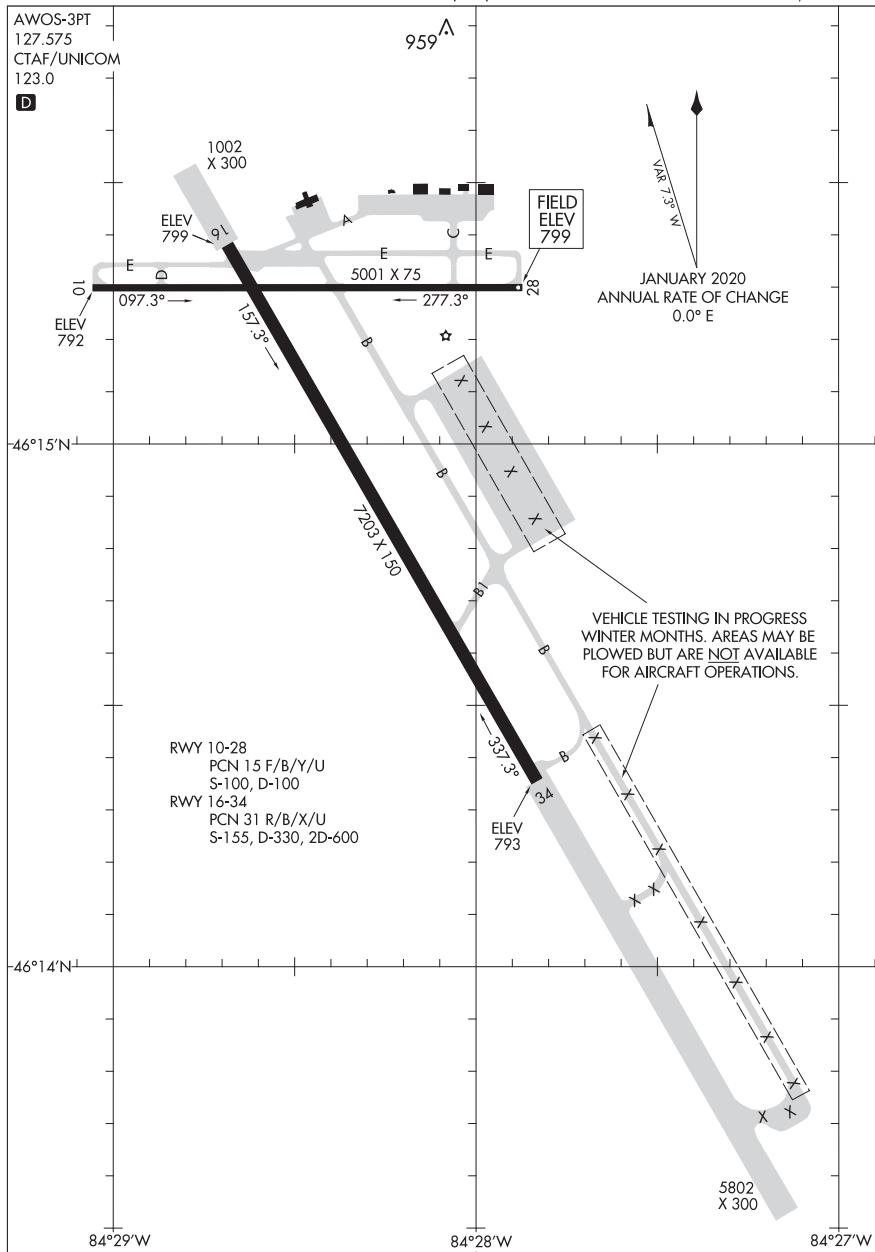
22027

## AIRPORT DIAGRAM

AWOS-3PT  
127.575  
CTAF/UNICOM  
123.0

**D**

AL-810 (FAA)

CHIPPEWA COUNTY INTL (CIU)  
SAULT STE MARIE, MICHIGAN

## AIRPORT DIAGRAM

22027

SAULT STE MARIE, MICHIGAN  
CHIPPEWA COUNTY INTL (CIU)

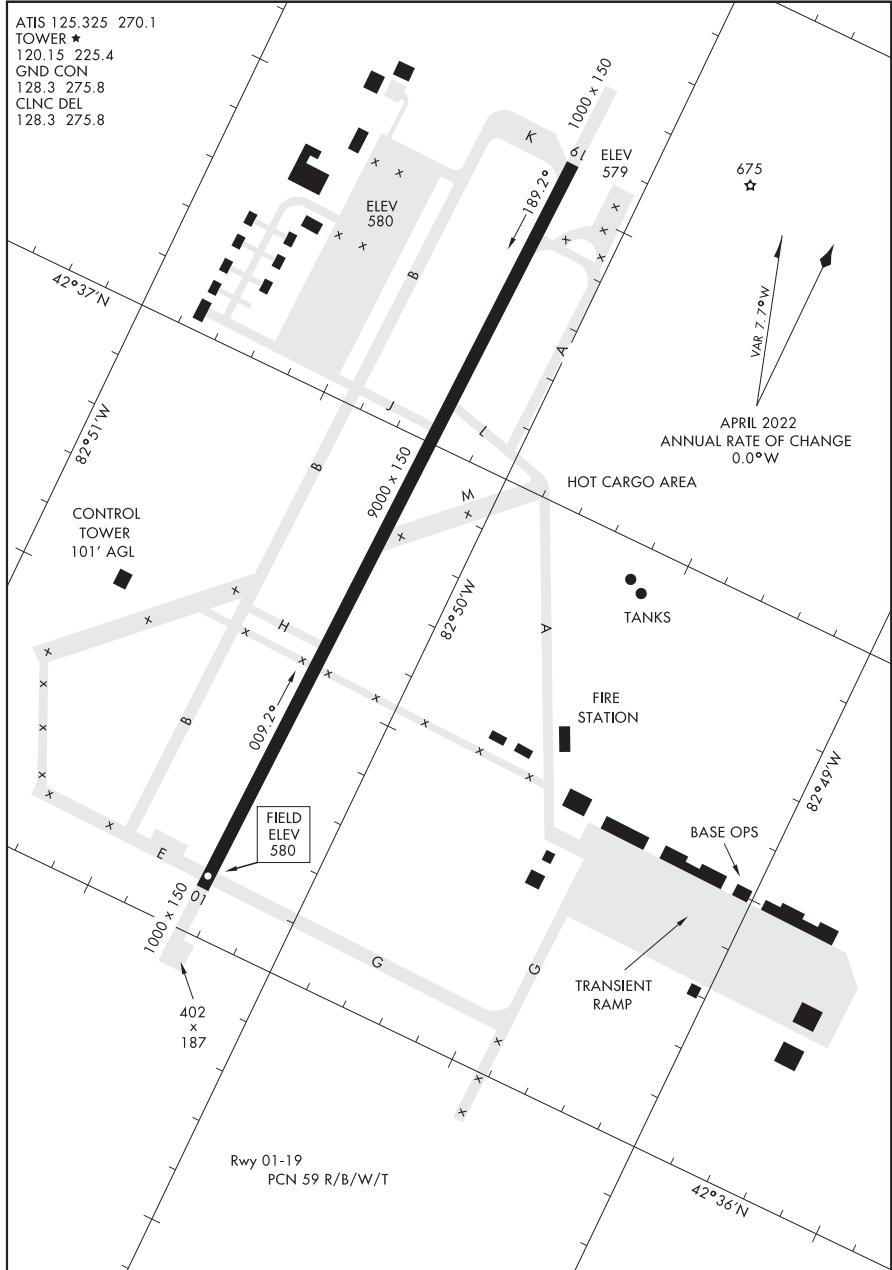
22111

**AIRPORT DIAGRAM**

AL-276 [USAF]

SELFRIFFE ANGB (KMTC)

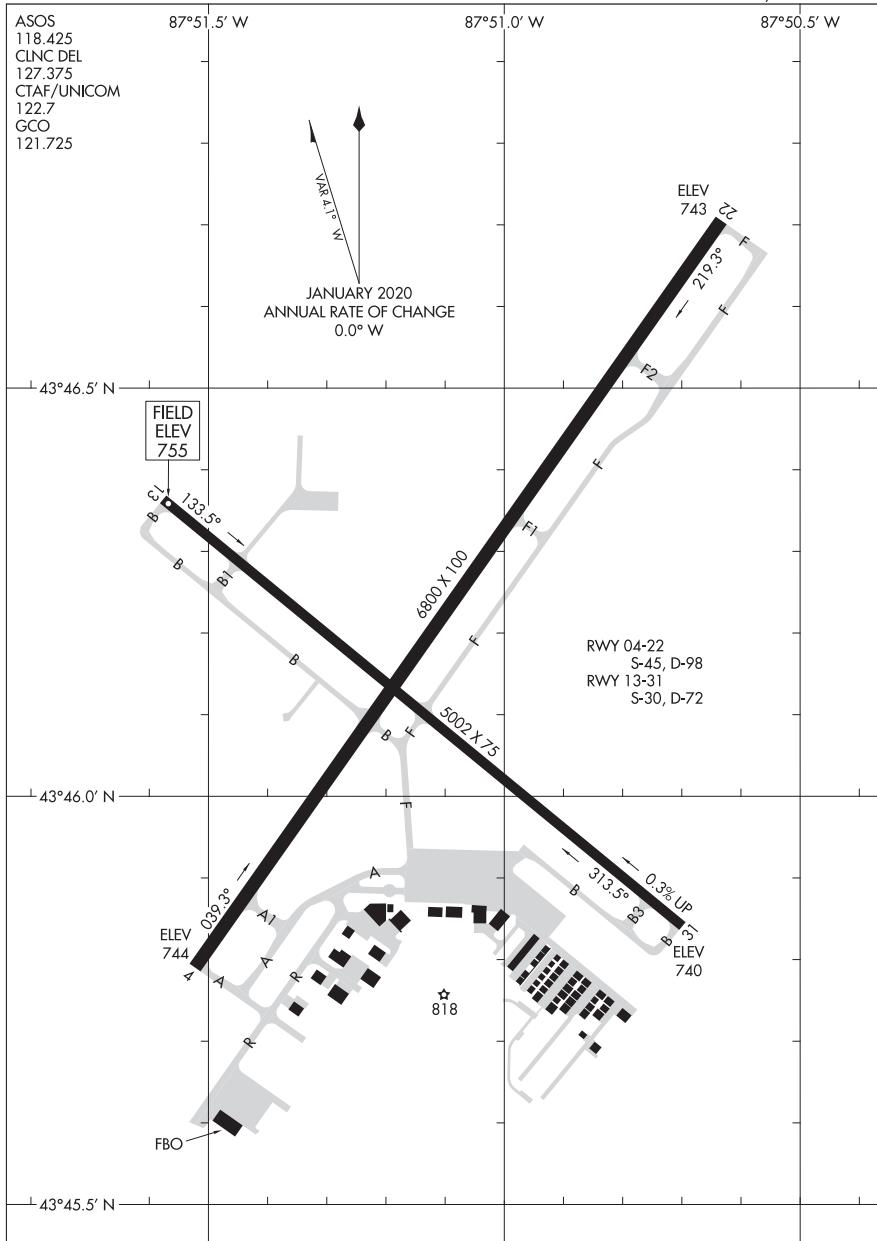
MT. CLEMENS, MICHIGAN

**AIRPORT DIAGRAM**MT. CLEMENS, MICHIGAN  
SELFRIFFE ANGB (KMTC)

22307

## AIRPORT DIAGRAM

AL-5379 (FAA)

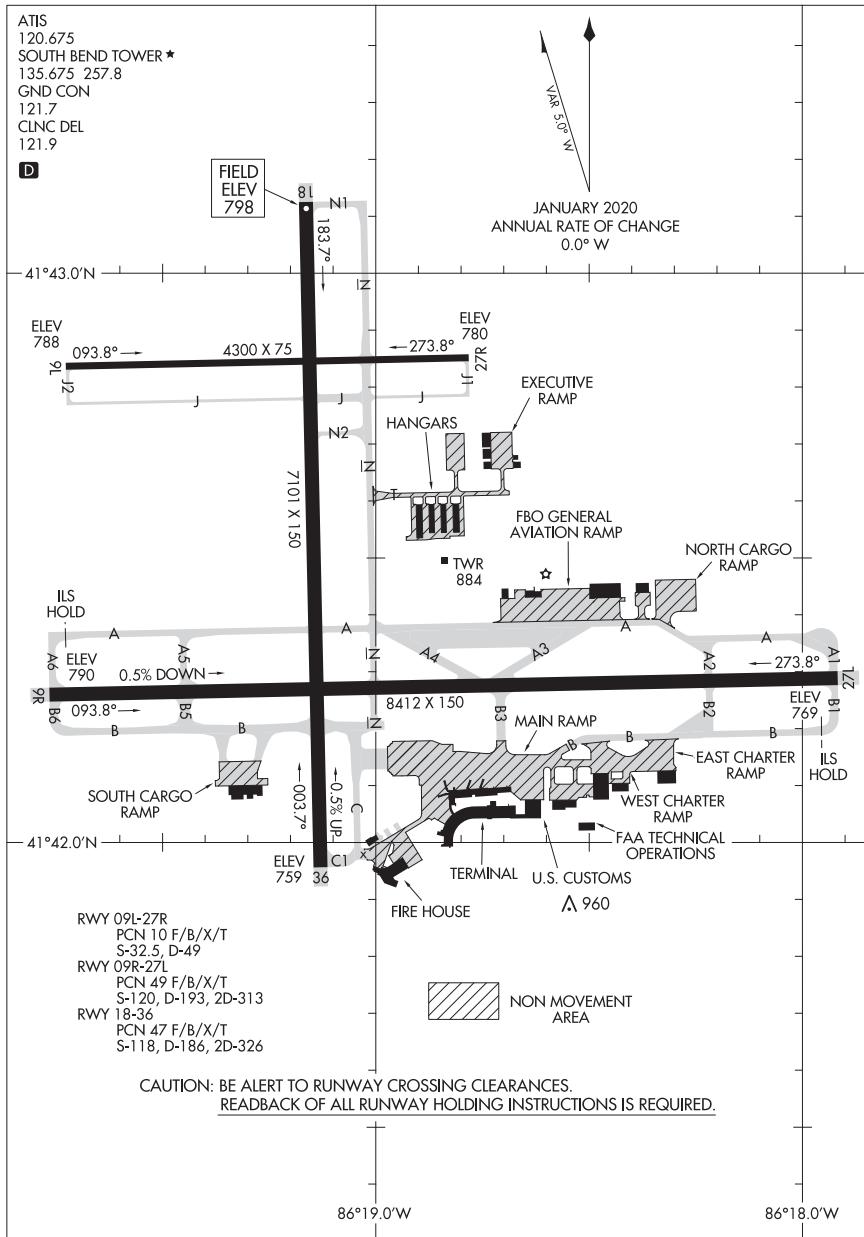
SHEBOYGAN COUNTY MEML (SBM)  
SHEBOYGAN, WISCONSIN

22307

# AIRPORT DIAGRAM

AL-399 (FAA)

SOUTH BEND INTL (SBN)  
SOUTH BEND, INDIANA



## AIRPORT DIAGRAM

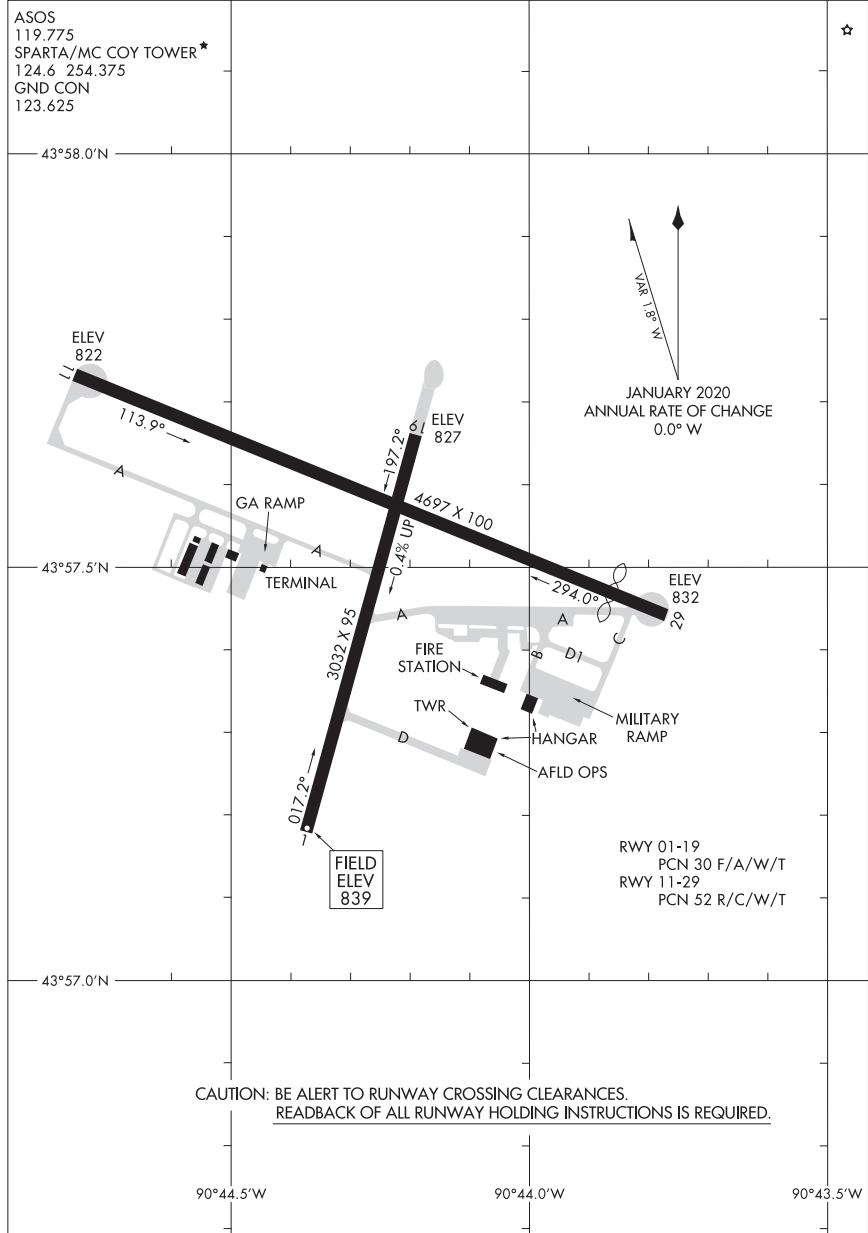
22307

SOUTH BEND, INDIANA  
SOUTH BEND INTL (SBN)

23166

## AIRPORT DIAGRAM

AL-6902 (FAA)

SPARTA/FORT MC COY (CMY)  
SPARTA, WISCONSIN

## AIRPORT DIAGRAM

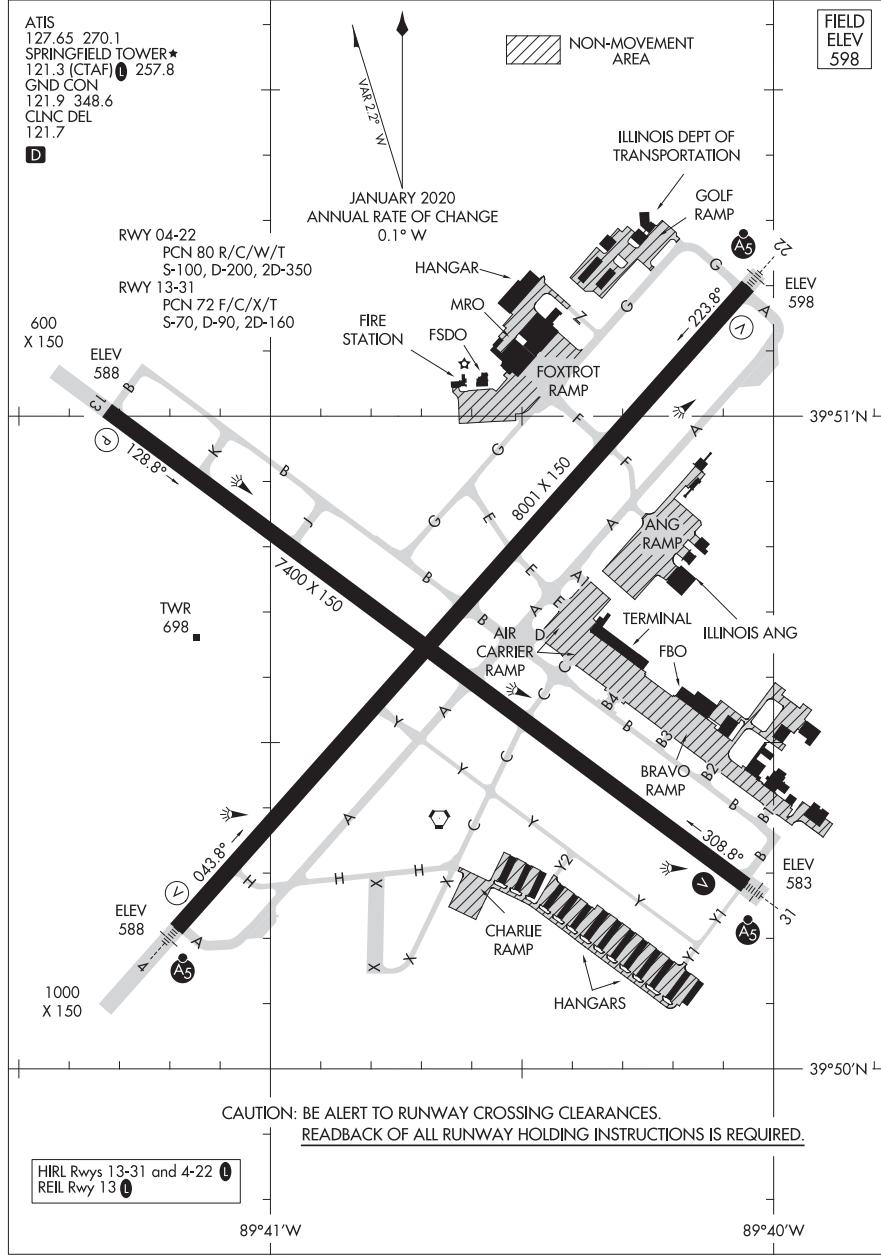
23166

SPARTA, WISCONSIN  
SPARTA/FORT MC COY (CMY)

23334

## AIRPORT DIAGRAM

AL-518 (FAA)

ABRAHAM LINCOLN CAPITAL (SPI)  
SPRINGFIELD, ILLINOIS

## AIRPORT DIAGRAM

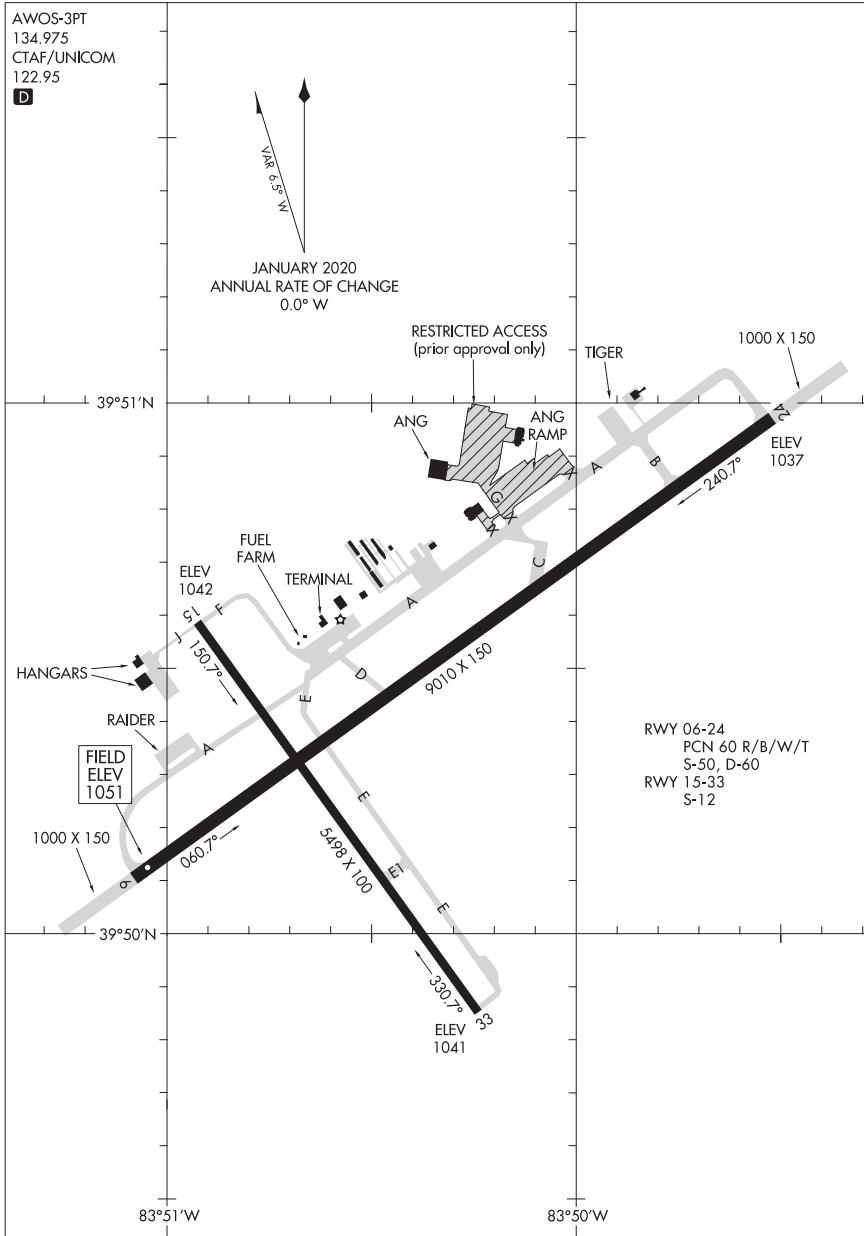
23334

SPRINGFIELD, ILLINOIS  
ABRAHAM LINCOLN CAPITAL (SPI)

21336

## AIRPORT DIAGRAM

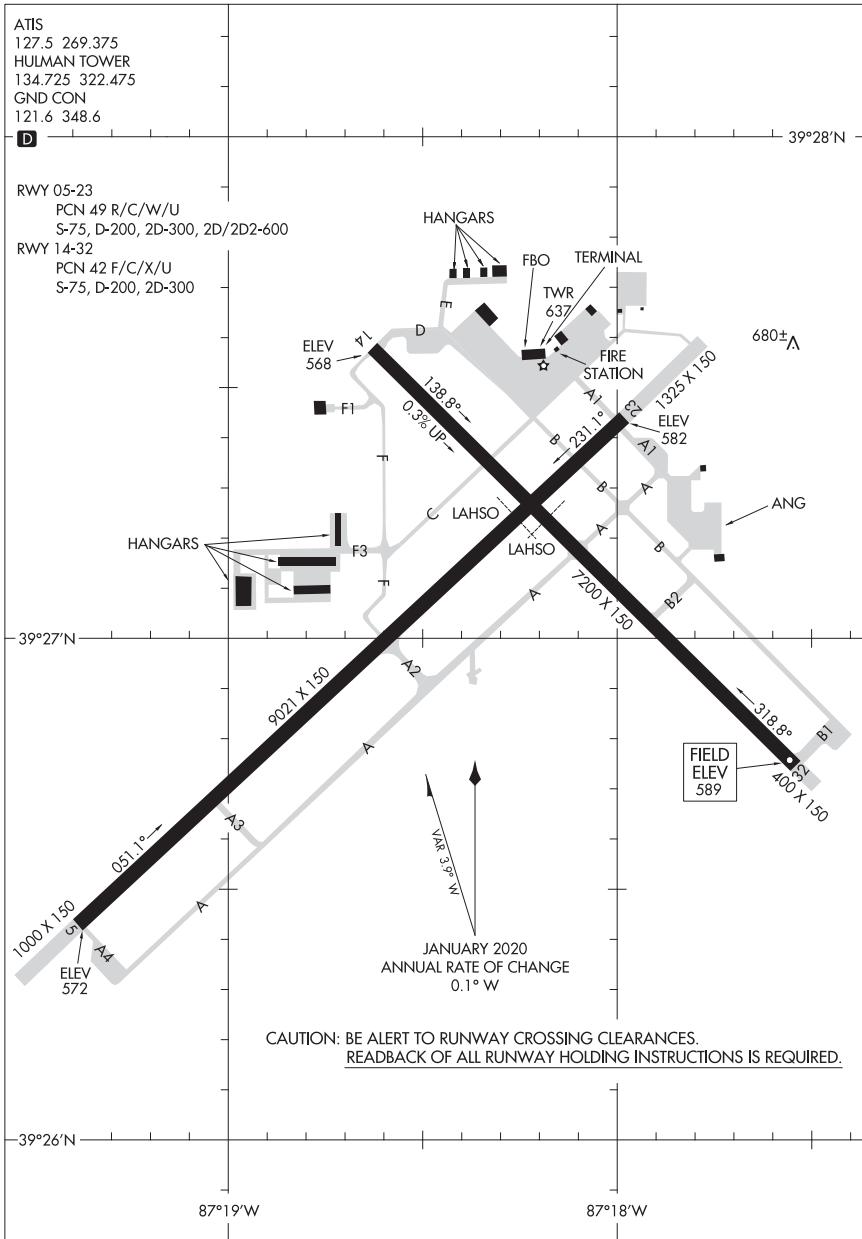
AL-958 (FAA)

SPRINGFIELD/BECKLEY MUNI (SGH)  
SPRINGFIELD, OHIO

23054

## AIRPORT DIAGRAM

AI-608 (FAA)

TERRE HAUTE RGNL (HUF)  
TERRE HAUTE, INDIANA

## AIRPORT DIAGRAM

23054

TERRE HAUTE, INDIANA  
TERRE HAUTE RGNL (HUF)

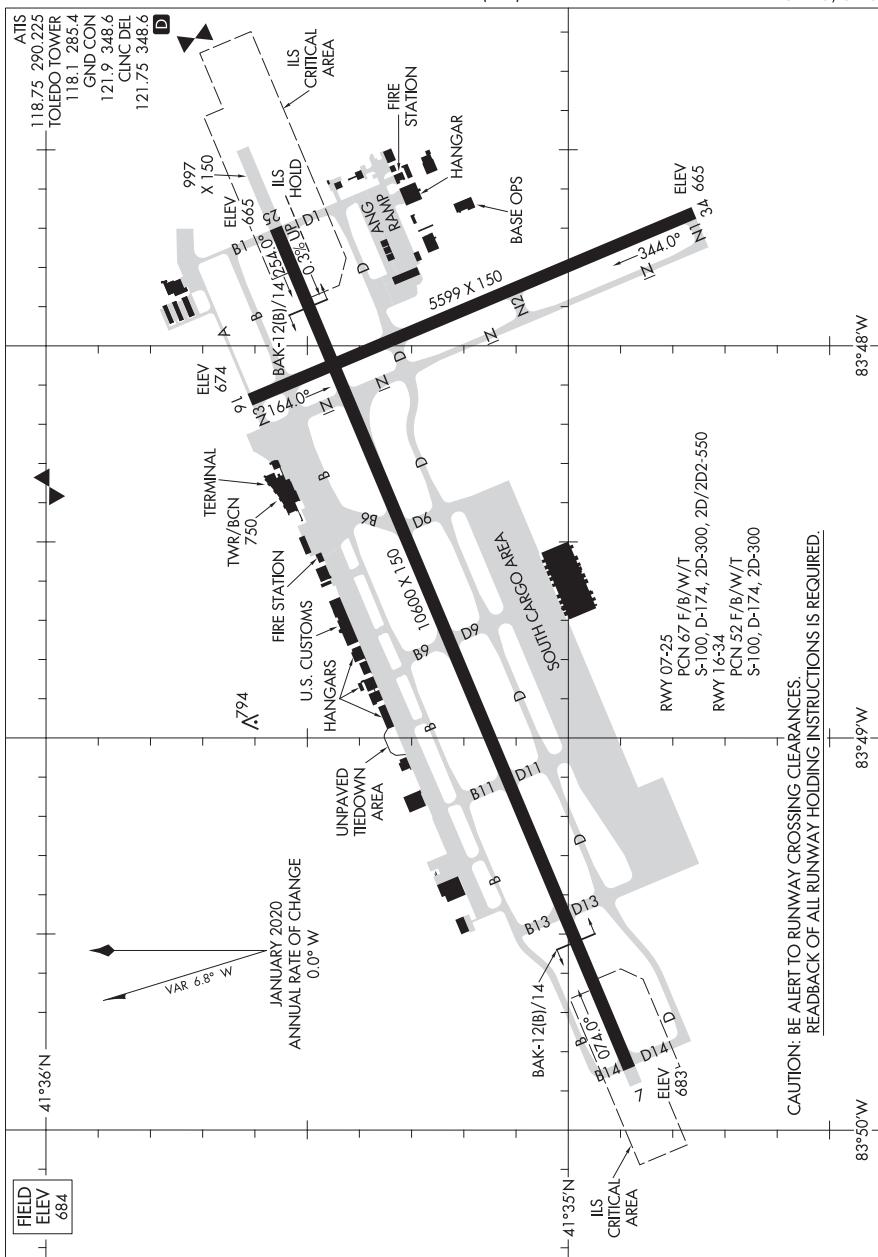
23222

## AIRPORT DIAGRAM

EUC  
AL-184 (FAA)

EUGENE F KRANZ TOLEDO EXPRESS (TOL)  
FAA TOLEDO, OHIO

## TOLEDO, OHIO



## AIRPORT DIAGRAM

23222

TOLEDO, OHIO

TOLEDO, OHIO

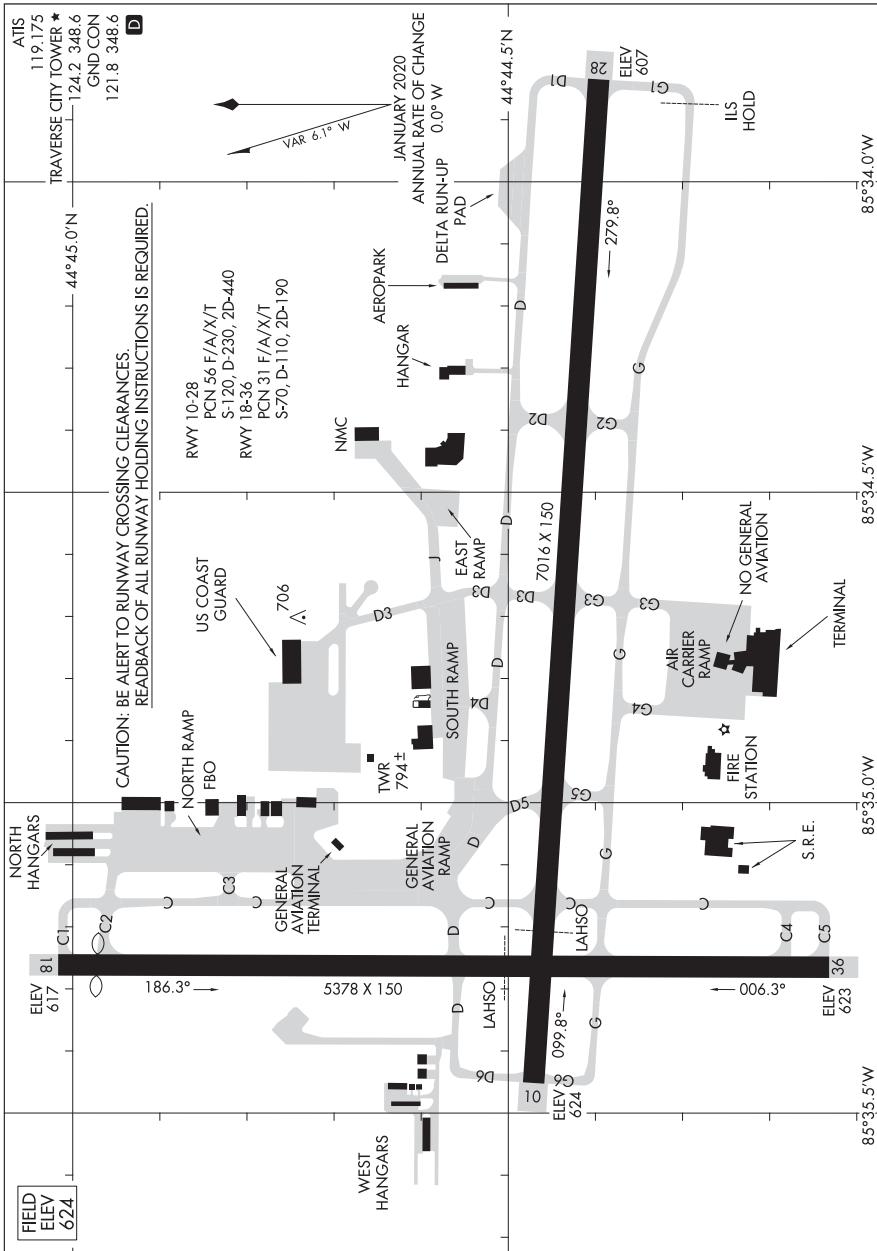
## AIRPORT DIAGRAMS

20086

## AIRPORT DIAGRAM

AL-425 (FAA)

CHERRY CAPITAL (TVC)  
TRAVERSE CITY, MICHIGAN



## AIRPORT DIAGRAM

20086

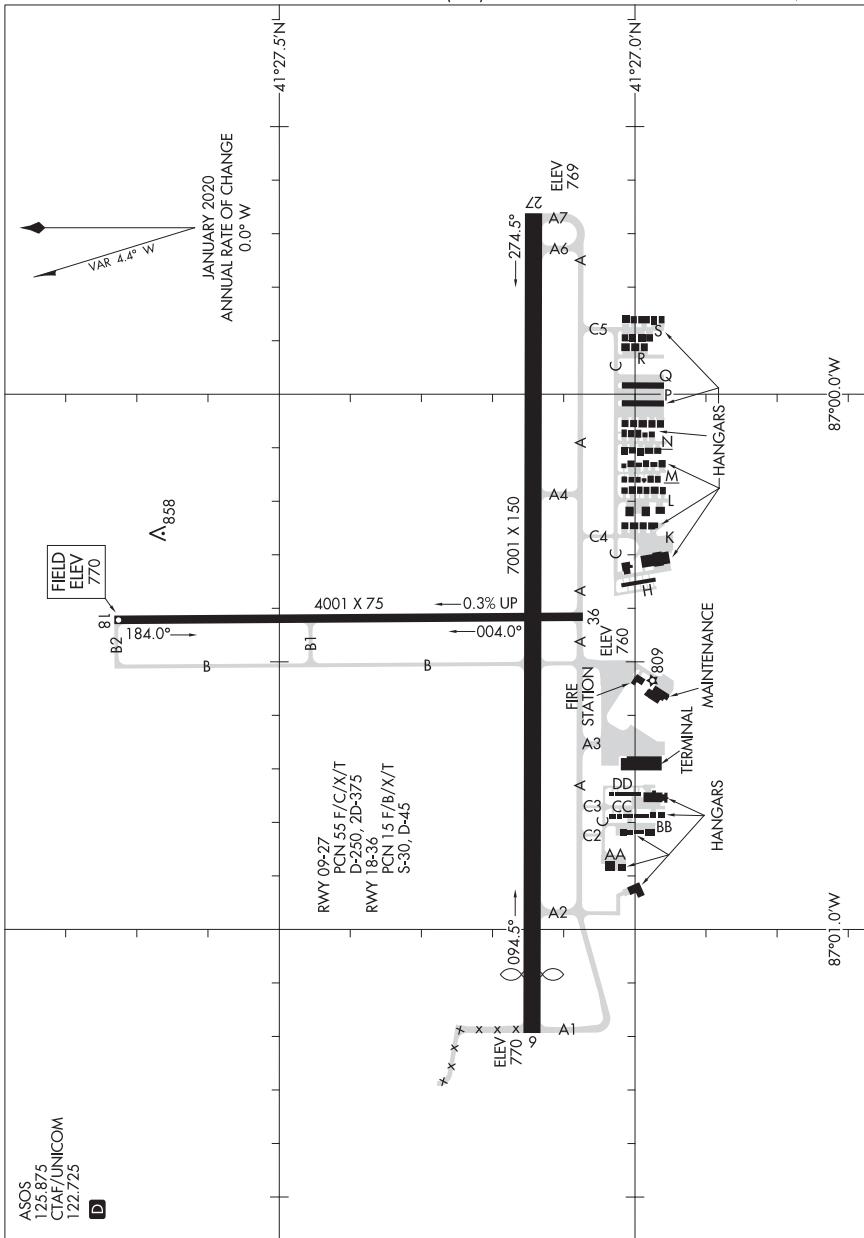
TRAVERSE CITY, MICHIGAN  
CHERRY CAPITAL (TVC)

20086

# AIRPORT DIAGRAM

AL-5460 (FAA)

**PORTR COUNTY RGNL (VPZ)  
VALPARAISO, INDIANA**



## AIRPORT DIAGRAM

20086

VALPARAISO, INDIANA  
PORTER COUNTY RGNL (VPZ)

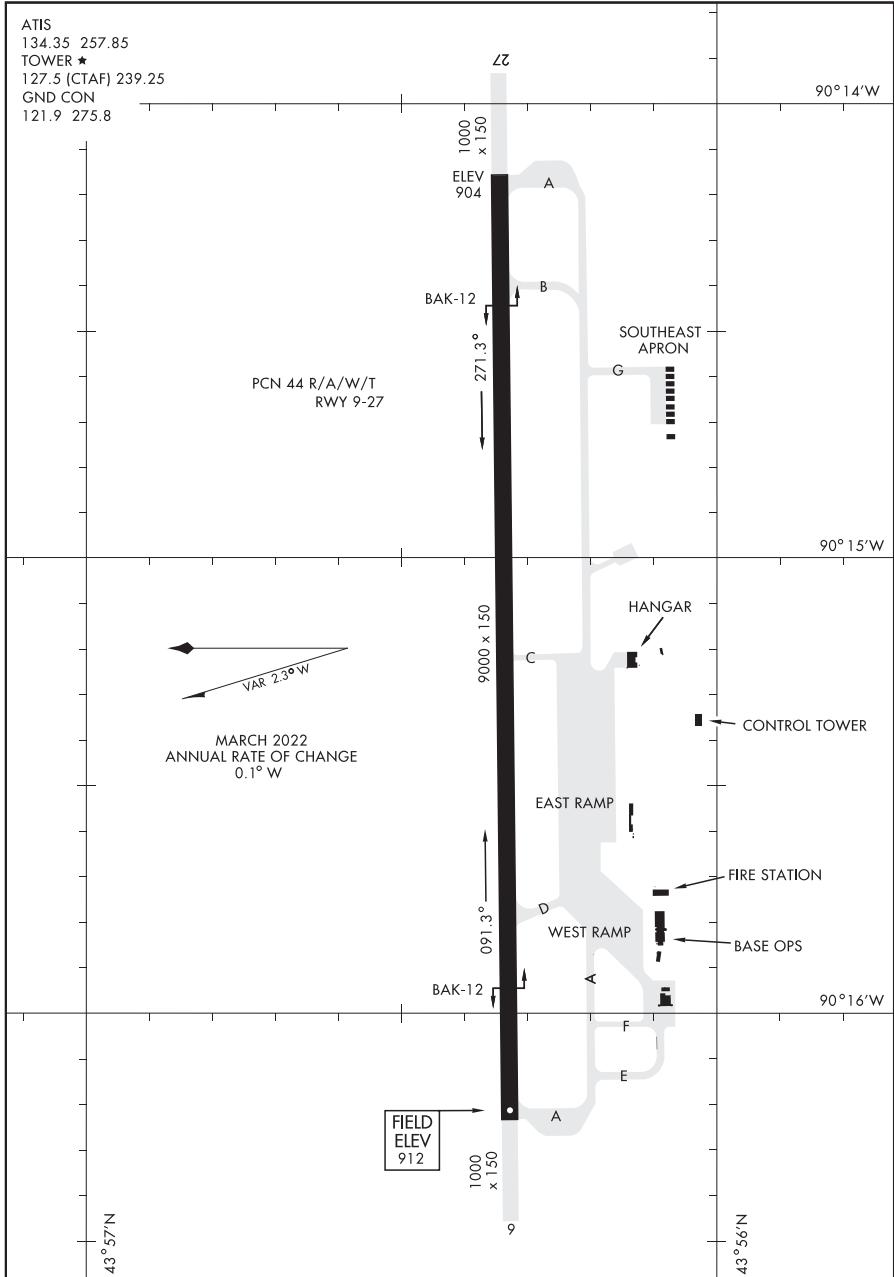
22083

## AIRPORT DIAGRAM

AL-714 [USAF]

VOLK FLD (KVOK)

CAMP DOUGLAS, WISCONSIN



## AIRPORT DIAGRAM

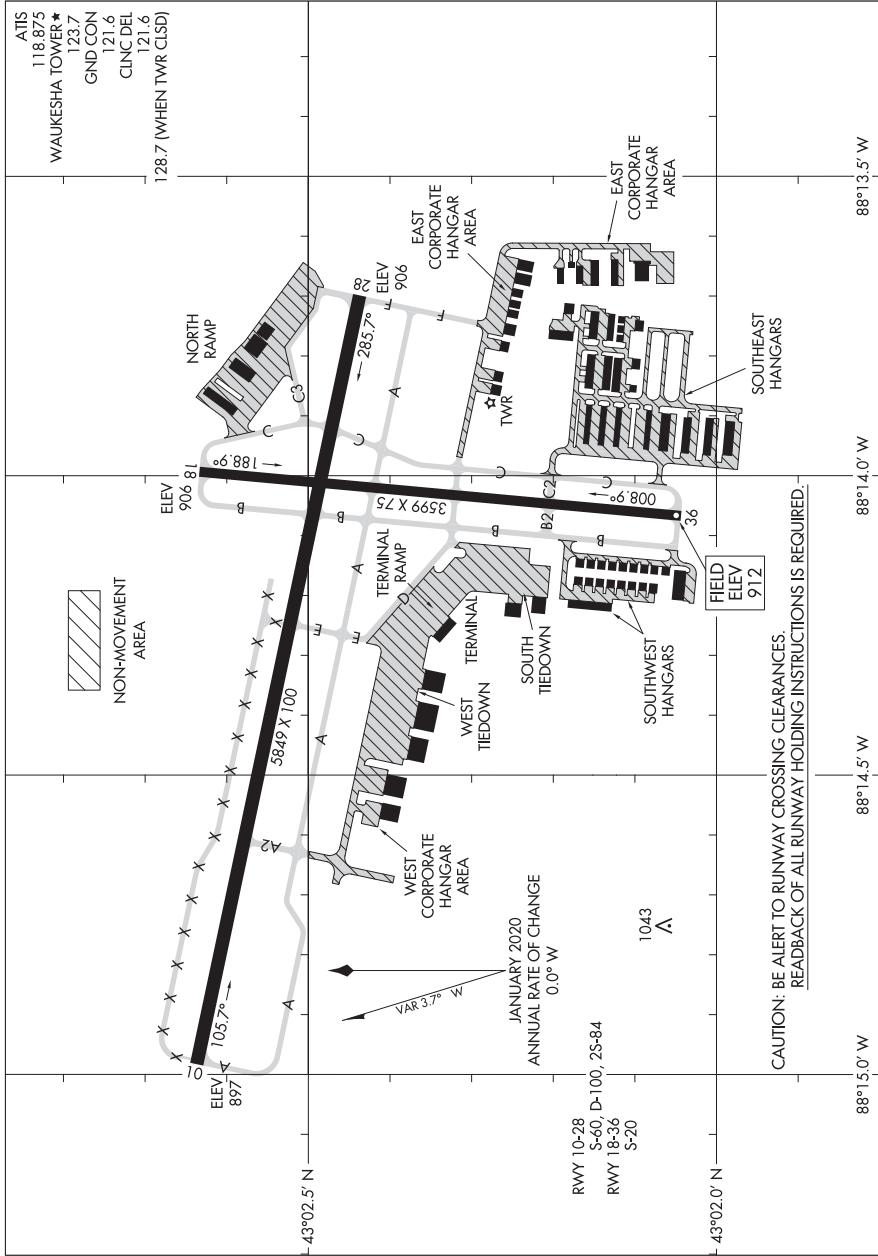
CAMP DOUGLAS, WISCONSIN

VOLK FLD (KVOK)

22195  
**AIRPORT DIAGRAM**

AL-5078 (FAA)

WAUKESHA COUNTY (UES)  
WAUKESHA, WISCONSIN



# AIRPORT DIAGRAM

22195

WAUKESHA, WISCONSIN  
WAUKESHA COUNTY (UES)

21056

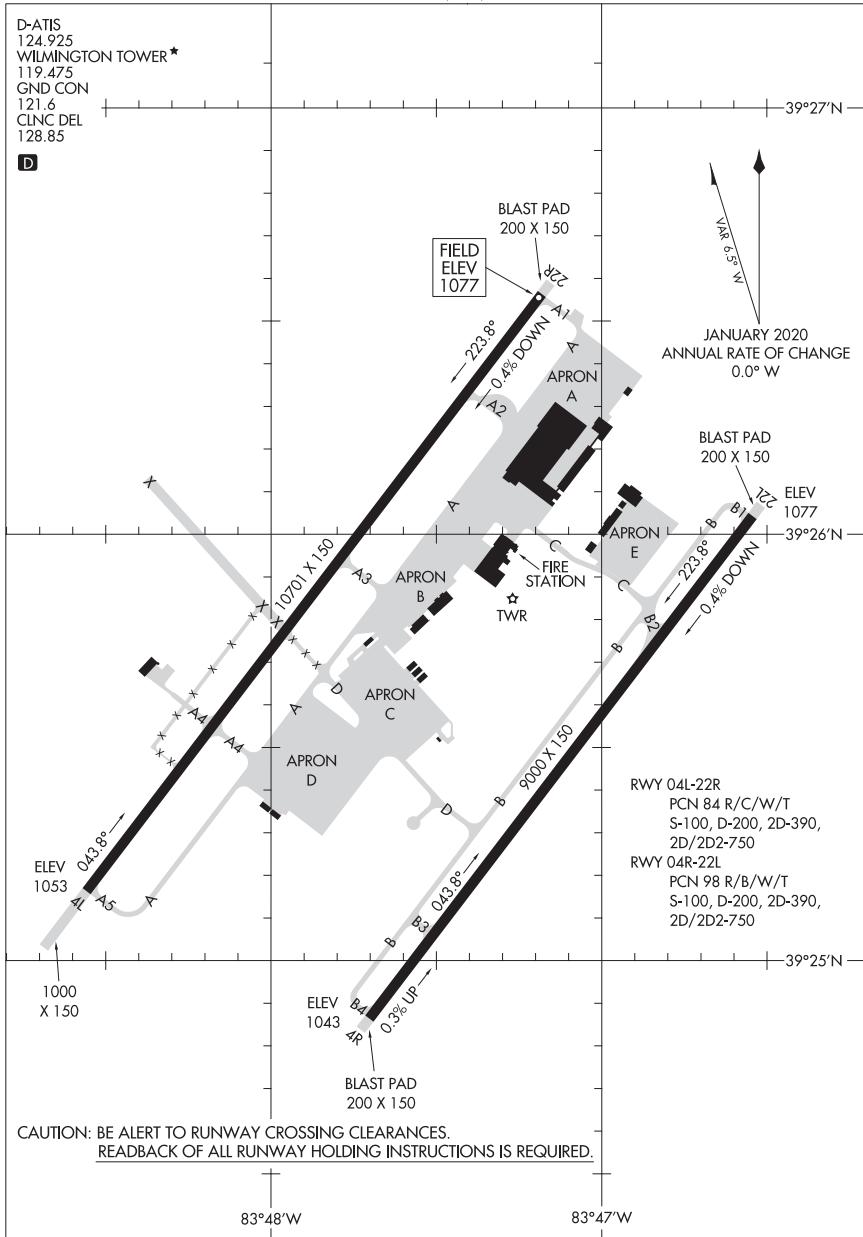
# AIRPORT DIAGRAM

AL-583 (FAA)

**WILMINGTON AIR PARK(ILN)**  
WILMINGTON, OHIO

D-ATIS  
124.925  
WILMINGTON TOWER \*  
119.475  
GND CON  
121.6      |    |    |  
CLNC DEL  
128.85

1



## AIRPORT DIAGRAM

21056

WILMINGTON, OHIO  
WILMINGTON AIR PARK (ILN)

23278

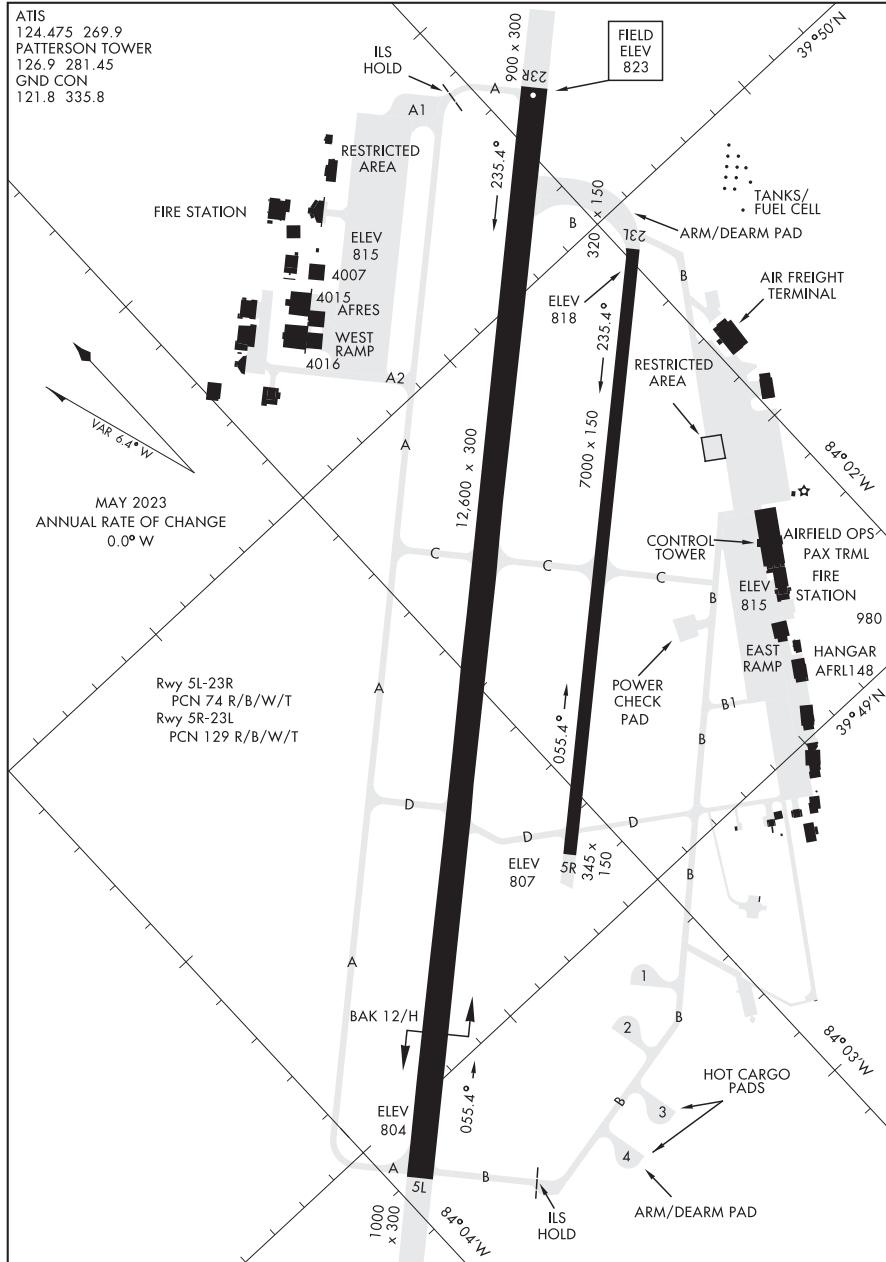
## AIRPORT DIAGRAM

ATIS  
124.475 269.9  
PATTERSON TOWER  
126.9 281.45  
GND CON  
121.8 335.8

AL-108 [USAF]

WRIGHT-PATTERSON AFB (KFFO)

DAYTON, OHIO

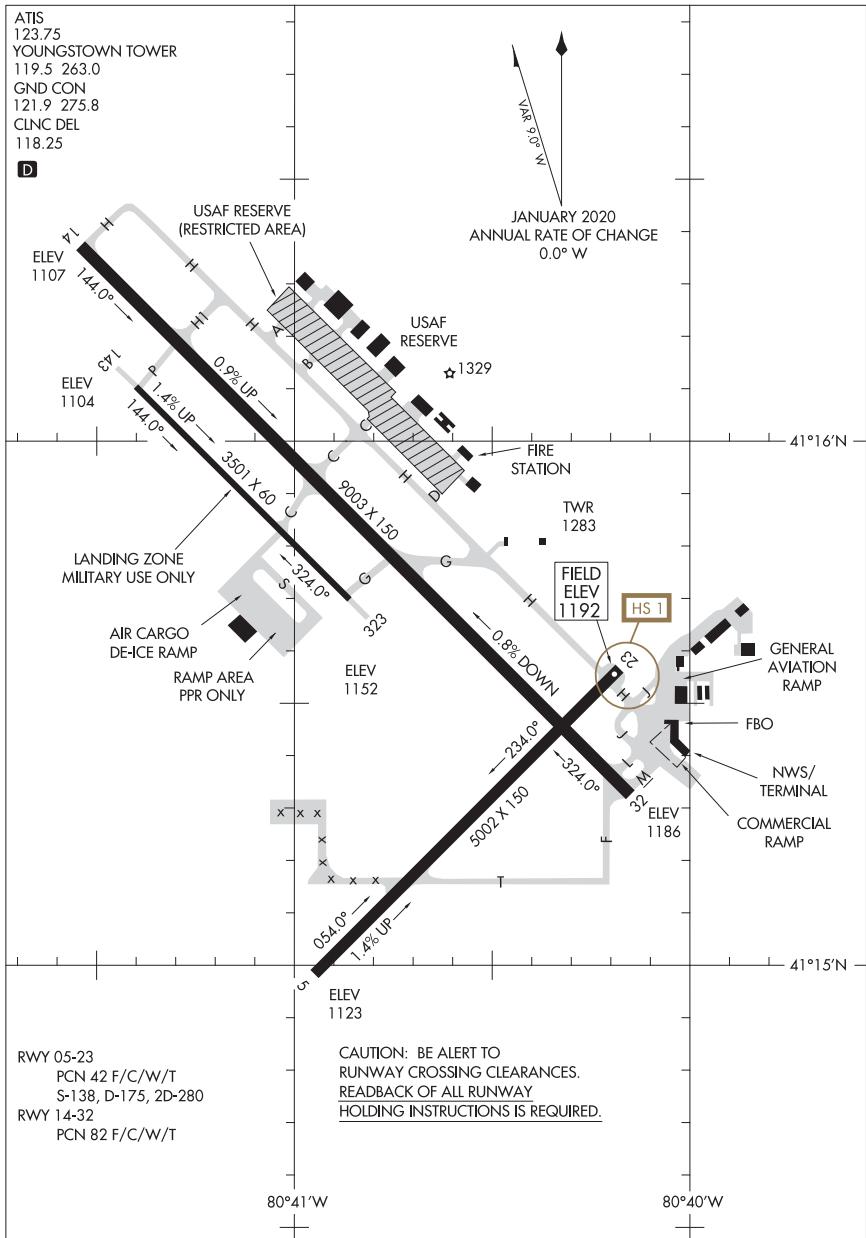


## AIRPORT DIAGRAM

DAYTON, OHIO

22251

## AIRPORT DIAGRAM

YOUNGSTOWN/WARREN RGNL (YNG)  
AL-466 (FAA)

## AIRPORT DIAGRAM

22251

YOUNGSTOWN/WARREN, OHIO  
YOUNGSTOWN/WARREN RGNL (YNG)

**INTENTIONALLY  
LEFT  
BLANK**

### Submitting Pilot Weather Reports (PIREPs)

**1. UA - Routine PIREP / UUA - Urgent PIREP**

**2. /OV - Location:** Use Airport or NAVAID identifiers only.

- Location can be reported as a single fix, radial DME, or a route segment (Fix- Fix)  
**Examples:** /OV LAX, /OV LAX-SLI120005, /OV PDZ-PSP.

**3. /TM – Time:** When conditions occurred or were encountered.

- Use 4 digits in UTC.

**Examples:** /TM 1645, /TM 0915

**4. /FL - Altitude/Flight Level**

- Use 3 digits for hundreds of feet. If not known, use UNKN.  
**Examples:** /FL095, /FL310, /FLUNKN

**5. /TP - Type aircraft:** Required if reporting Turbulence or Icing

- No more than 4 characters, use UNKN if the type is not known.  
**Examples:** /TP P28A, /TP RV8, /TP B738, /TP UNKN

**6. /SK – Sky Condition/Cloud layers:**

- Report cloud coverage using contractions: FEW, SCT, BKN, OVC, SKC
- Report bases in hundreds of feet: BKN005, SCT015, OVC200
- If bases are unknown, use UNKN
- Report cloud tops in hundreds of feet: TOP120

**Examples:** /SK BKN035, /SK SCT UNKN-TOP125, /SK OVC095-TOP125/ SKC

**7. /WX - Weather:** Flight visibility is always reported first. Append FV reported with SM.

- Report visibility using 2 digits: FV01SM, FV10SM
- Unrestricted visibility use FV99SM.
- Use standard weather contractions e.g.: RA, SH, TS, HZ, FG, -, +

**Examples:** /WX FV01SM +SHRA, /WX FV10 SM -RA BR.

**8. /TA - Air temperature (Celsius):** Required when reporting icing

- 2 digits, unless below zero, then prefix digits with M.  
**Examples:** /TA 15, /TA 04 /TA M06

**9. /WV - Wind:** Direction in 3 digits, speed in 3 or 4 digits, followed by KT.

**Examples:** /WV 270045KT, /WV 080110KT

**10. /TB - Turbulence:**

- Report intensity using LGT, MOD, SEV, or EXTRM
- Report duration using INTMT, OCNL or CONS when reported by pilot.
- Report type using CAT or CHOP when reported by pilot.
- Include altitude only if different from /FL.
- Use ABV or BLO when limits are not defined.
- Use NEG if turbulence is not encountered.

**Examples:** /TB OCNL MOD, /TB LGT CHOP, /LGT 060, /TB MOD BLO 090, /TB NEG

**11. /IC - Icing:**

- Report intensity using TRACE, LGT, MOD or SEV
- Report type using RIME, CLR, or MX
- Include altitude only if different than /FL.
- Use NEG if icing not encountered.

**Examples:** /IC LGT-MOD RIME, /IC SEV CLR 028-045, /IC NEG

**12. /RM - Remarks:** Use to report phenomena that does not fit in any other field.

- Report the most hazardous element first.
- Name of geographic location from /OV field fix.

**Examples:** /RM LLWS +/-15KT SFC-003 DURC RWY22 JFK  
/RM MTN WAVE, /RM DURC, /RM DURD, /RM MULLAN PASS  
/RM BA RWY 02L BA MEDIUM TO POOR 3IN DRY SN OVER COMPAKTED

SN

**Examples of Completed PIREPS**

UA /OV RFD /TM 1315 /FL160 /TP PA44 /SK OVC025-TOP095/OVC150 /TA M12 /TB INTMT LGT CHOP  
UA /OV DHT360015-AMA /TM 2116 /FL050 /TP PA32 /SK BKN090 /WX FV05SM -RA /TA 04 /TB LGT /IC NEG

UUA /OV PDZ010018 /TM 1520 /FL125 /TP C172 /WV 270048KT TB SEV 055-085 /RM CAJON PASS

\*

# PIREP FORM

3 or 4 letter Identifier

1. **UA** **UUA**  
\_\_\_\_\_  
Routine      Urgent

2. <b>/OV</b>	Location
3. <b>/TM</b>	Time
4. <b>/FL</b>	Altitude/Flight Level
5. <b>/TP</b>	Aircraft Type
Items 1 through 5 are mandatory for all PIREPs	
6. <b>/SK</b>	Sky Condition
7. <b>/WX</b>	Flight Visibility & Weather
8. <b>/TA</b>	Temperature (Celsius)
9. <b>/WV</b>	Wind
10. <b>/TB</b>	Turbulence
11. <b>/IC</b>	Icing
12. <b>/RM</b>	Remarks

FAA Form 7110-2 (9/19) Supersedes Previous Edition