

# NACOMATIC

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06C =>	45	RFD =>	44
10C =>	54	RPJ =>	76
3CK =>	42	RSV =>	76
3KK =>	58	SAR =>	79
3LF =>	60	SFY =>	78
3MY =>	72	SLO =>	77
AAA =>	59	SPI =>	80
AJG =>	67	SQI =>	81
ALN =>	26	TAZ =>	81
ARR =>	41	TIP =>	75
BLV =>	28	UGN =>	46
BMI =>	31	UIN =>	75
CIR =>	33	VLA =>	83
CMI =>	37	VYS =>	72
CPS =>	33		
CTK =>	34		
CUL =>	35		
DEC =>	48		
DKB =>	49		
DNV =>	47		
DPA =>	46		
DTG =>	50		
ENL =>	36		
EZI =>	58		
FEP =>	52		
FOA =>	51		
FWC =>	51		
GBG =>	52		
GRE =>	54		
HSB =>	55		
IGQ =>	41		
IJX =>	56		
IKK =>	57		
JOT =>	57		
LOT =>	44		
LWV =>	59		
MDH =>	35		
MDW =>	38		
MLI =>	64		
MQB =>	60		
MTO =>	62		
MVN =>	68		
MWA =>	61		
OLY =>	69		
ORD =>	39		
PIA =>	71		
PJY =>	73		
PNT =>	74		
PPQ =>	73		
PRG =>	70		
PWK =>	43		

## GENERAL INFORMATION

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

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

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

### CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

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

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

FAA, Aeronautical Information Services, ATO-R, Rm. 626  
800 Independence Ave., SW  
Washington, DC 20591  
Telephone 1-866-295-8236  
Fax 202-267-5322  
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

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

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

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

FOR CHARTING ERRORS CONTACT:

FAA, National Aeronautical Navigation Services  
SSMC-4 Sta. #4259  
1305 East West Highway  
Silver Spring, MD 20910-3281  
Telephone 1-800-626-3677  
Email 9-AMC-Aerochart@faa.gov

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

See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

FAA, National Aeronautical Navigation Services  
REDIS/Distribution Team  
10201 Good Luck Road  
Glenn Dale, MD 20769-9700  
Online at <http://aeronav.faa.gov>  
Email 9-AMC-Chartsales@faa.gov  
Telephone 1-800-638-8972  
Fax 301-436-6829  
or any authorized chart agent.

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

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

TABLE OF CONTENTS

General Information.....	Inside Front Cover
Abbreviations .....	2
Directory Legend .....	4
Airport/Facility Directory	
Illinois .....	22
Indiana .....	80
Michigan .....	127
Ohio .....	211
Wisconsin .....	274
City/Military Airport Cross Reference .....	328
Seaplane Landing Areas .....	329
Special Notices.....	331
Regulatory Notices .....	340
FAA and National Weather Service	
Telephone Numbers .....	341
Key to Aviation Weather Reports .....	342
Air Traffic Facilities Telephone Numbers .....	344
Air Route Traffic Control Centers .....	346
Flight Service Station Communication Frequencies .....	348
Flight Standards District Offices.....	351
Routes/Waypoints	
Low Altitude Preferred Routes.....	354
Low Altitude Directional Routes .....	358
High Altitude Preferred Routes.....	358
High Altitude Directional Routes .....	379
Q-Routes.....	380
RNAV Routing Pitch and Catch Points .....	383
VFR Waypoints.....	394
VOR Receiver Check .....	402
Parachute Jumping Areas .....	406
Aeronautical Chart Bulletins .....	408
Supplemental Communication Reference .....	424
Airport Diagrams .....	430
National Weather Service (NWS) Upper Air Observing Stations .....	512
Enroute Flight Advisory Service (EFAS) .....	Inside Back Cover

## ABBREVIATIONS

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

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

CONTINUED ON NEXT PAGE

## CONTINUED FROM PRECEDING PAGE

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

DIRECTORY LEGEND

SAMPLE

① CITY NAME  
 ② AIRPORT NAME (ALTERNATE NAME) ③ (LTS) (KLTS) ④ CIV/MIL ⑤ 3 N ⑥ UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE  
 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER  
 ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑴ IAP, DIAP, AD

⑳ → RWY 18-36: H12004X200 (ASPH-CONC-GRVD)  
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL  
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.  
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.  
 RWY 36: ALSF1. 0.4% down.  
 RWY 09-27: H6000X150 (ASPH) MIRL  
 RWY 173-353: H3515X150 (ASPH-PFC) AUV PCN 59 F/A/W/T

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

RUNWAY DECLARED DISTANCE INFORMATION  
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504  
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

㉒ → ARRESTING GEAR/SYSTEM  
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')  
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

㉓ → MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on  
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑳ → FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← ㉔  
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

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

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

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

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

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

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

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

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

HELIPAD H1: H100X75 (ASPH)

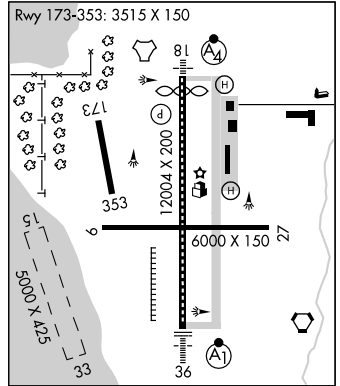
HELIPAD H2: H60X60 (ASPH)

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

187 TPA 1000(813)

WATERWAY 15-33: 5000X425 (WATER)

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



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



10

SKETCH LEGEND

RUNWAYS/LANDING AREAS

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

MISCELLANEOUS BASE AND CULTURAL FEATURES

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

RADIO AIDS TO NAVIGATION

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

MISCELLANEOUS AERONAUTICAL FEATURES

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

APPROACH LIGHTING SYSTEMS

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

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

## LEGEND

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

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

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

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

### ① CITY/AIRPORT NAME

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

### ② ALTERNATE NAME

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

### ③ LOCATION IDENTIFIER

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

### ④ OPERATING AGENCY

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

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

### ⑤ AIRPORT LOCATION

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

### ⑥ TIME CONVERSION

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

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

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

**8 CHARTS**

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

**9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS**

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

**10 AIRPORT SKETCH**

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

**11 ELEVATION**

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

**12 ROTATING LIGHT BEACON**

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

**13 SERVICING—CIVIL**

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

**14 FUEL**

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

\*(Fuel System Icing Inhibitor)

\*\* (Freeze Point)

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

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

**15 OXYGEN—CIVIL**

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

**16 TRAFFIC PATTERN ALTITUDE**

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

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

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

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

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

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

US Customs Air and Sea Ports, Inspectors and Agents

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

**18 CERTIFICATED AIRPORT (14 CFR PART 139)**

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

14 CFR PART 139 CERTIFICATED AIRPORTS  
AIRPORT CLASSIFICATIONS

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

**14 CFR—PART 139 CERTIFICATED AIRPORTS**

## INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

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

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O—Water; DC—Dry Chemical.

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

**19 NOTAM SERVICE**

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

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

**20 FAA INSPECTION**

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

**21 RUNWAY DATA**

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

**RUNWAY DESIGNATION**

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

**RUNWAY DIMENSIONS**

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

**RUNWAY SURFACE AND LENGTH**

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

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

**RUNWAY WEIGHT BEARING CAPACITY**

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

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

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

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

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

Omission of weight bearing capacity indicates information unknown.

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

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

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

#### RUNWAY LIGHTING

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

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

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

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

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

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

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

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

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

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

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

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

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

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

VISUAL GLIDESLOPE INDICATORS

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

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

PILOT CONTROL OF AIRPORT LIGHTING

<u>Key Mike</u>	<u>Function</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

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

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

RUNWAY SLOPE

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

RUNWAY END DATA

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

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

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

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

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

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

**22** ARRESTING GEAR/SYSTEMS

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

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

## BI-DIRECTIONAL CABLE (B)

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

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

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

## UNI-DIRECTIONAL CABLE

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

## FOREIGN CABLE

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

## UNI-DIRECTIONAL BARRIER

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

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

## OTHER

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

**23** MILITARY SERVICE

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

**24** JET AIRCRAFT STARTING UNITS (JASU)

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

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

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

## ELECTRICAL STARTING UNITS:

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



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

AIR STARTING UNITS

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

COMBINED AIR AND ELECTRICAL STARTING UNITS:

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

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

USN JASU

ELECTRICAL STARTING UNITS:

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

AIR STARTING UNITS:

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

COMBINED AIR AND ELECTRICAL STARTING UNITS:

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

JASU (ARMY)

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

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

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

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

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

ELECTRICAL STARTING UNITS (OTHER)

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

AIR STARTING UNITS (OTHER):

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

CARTRIDGE:

MXU-4A USAF

**25 FUEL—MILITARY**

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

See legend item 14 for fuel code and description.

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

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

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

**NITROGEN:**

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

**27 OIL—MILITARY**

US AVIATION OILS (MIL SPECS):

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

**28 TRANSIENT ALERT (TRAN ALERT)—MILITARY**

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

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

**29 AIRPORT REMARKS**

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

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

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

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

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

**30 MILITARY REMARKS**

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

Type of restrictions:

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

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

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

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

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

**31 WEATHER DATA SOURCES**

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

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

AWOS—Automated Weather Observing System

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

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

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

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

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

HIWAS—See RADIO AIDS TO NAVIGATION

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

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

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

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

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

## **32 COMMUNICATIONS**

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

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

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

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

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

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

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

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

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

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

### **TERMINAL SERVICES**

SFA—Single Frequency Approach.

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

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

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

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

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

PTD—Pilot to Dispatcher.

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

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

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

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

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

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

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

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

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

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

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

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

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

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

### **(33) AIRSPACE**

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

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

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

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

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

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

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

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

or

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

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

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

or

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

or

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

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

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

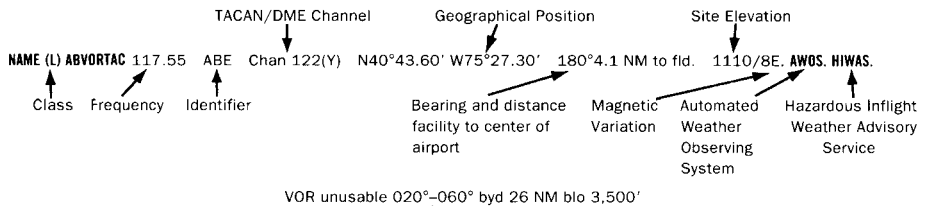
Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain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

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

**34 RADIO AIDS TO NAVIGATION**

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

NAVAID information is tabulated as indicated in the following sample:



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

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

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

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

**RADIO CLASS DESIGNATIONS**

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

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

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

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

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

## ILS FACILITY PERFORMANCE CLASSIFICATION CODES

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

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

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

ILS information is tabulated as indicated in the following sample:

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

↖

ILS Facility Performance  
Classification Code

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

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

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

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

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



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

**35** COMM/NAV/WEATHER REMARKS:

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

**ABRAHAM** N40°09.61' W89°20.27' NOTAM FILE AAA.  
NDB (MHW) 329 AAA at Logan Co.

CHICAGO  
L-27C

**ABRAHAM LINCOLN CAPITAL** (See SPRINGFIELD)

**ACORE** N38°31.19' W90°03.57' NOTAM FILE STL.  
NDB (LOM) 350 CP 304° 5.5 NM to St Louis Downtown.

ST LOUIS

**ALBERTUS** (See FREEPORT)

## ALEDO

**MERCER CO** (CØØ) 3 NE UTC-6(-5DT) N41°14.92' W90°44.23'  
740 FUEL 100LL TPA—1540(800) NOTAM FILE IKK  
RWY 17-35: H2480X45 (ASPH) LIRL  
RWY 17: Building. RWY 35: Road.  
AIRPORT REMARKS: Attended 1400-2300Z±.  
COMMUNICATIONS: CTAF 122.9

CHICAGO

**ALPOS** N38°51.30' W89°56.28' NOTAM FILE ALN.  
NDB (LOM) 218 AL 291° 5.5 NM to St Louis Rgnl.

ST LOUIS  
L-27C

## ALTON/ST LOUIS

**ST LOUIS RGNL** (ALN) 4 E UTC-6(-5DT) N38°53.40' W90°02.76'

ST LOUIS

544 B S4 FUEL 100LL, JET A OX 1, 3 ARFF Index—See Remarks NOTAM FILE ALN H-5D, L-27C, A  
RWY 11-29: H8098X150 (ASPH-GRVD) S-80, D-140, DT-200 HIRL IAP, AD

RWY 11: REIL. VASI(V4L)—GA 3.0° TCH 46'. Hangar.  
RWY 29: MALSR.

RWY 17-35: H6499X100 (ASPH) S-35, D-47 MIRL  
RWY 17: VASI(V4L)—GA 3.0° TCH 45'. Tree.  
RWY 35: VASI(V4L)—GA 3.0° TCH 45'. Trees.

### LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 29	17-35	6850
RWY 35	11-29	5100

AIRPORT REMARKS: Attended 1200-0400Z±. For attendant other hrs call 618-259-3230 or 258-1005. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 618-259-2531. Class IV, ARFF Index A. Index E firefighting equipment avbl with 30 minutes notice and prior permission of arpt manager. When twr closed HIRL Rwy 11-29 and MIRL Rwy 17-35 preset on low ints; to increase ints and ACTIVATE MALSR Rwy 29—CTAF.

WEATHER DATA SOURCES: AWOS-3 128.0 (618) 259-7231. LAWRS.  
COMMUNICATIONS: CTAF 126.0 ATIS 128.0

UNICOM 122.95

RCØ 122.05 (ST LOUIS RADIO)

Ⓡ APP/DEP CON 124.2 CLNC DEL 120.2 (0400-1300Z±)

RGNL TOWER 126.0 (1300-0400Z±) GND CON 120.2

AIRSPACE: CLASS D svc 1300-0400Z± other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE STL.

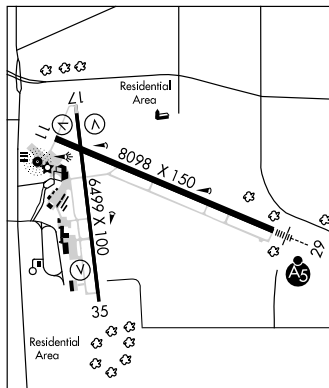
TROY (L) VORTACW 116.0 TOY Chan 107 N38°44.35' W89°55.12' 323° 10.8 NM to fld. 570/4E.

CIVIC MEMORIAL NDB (MHW) 263 CVM N38°53.54' W90°03.38' at fld. NOTAM FILE ALN.

ALPOS NDB (LOM) 218 AL N38°51.30' W89°56.28' 291° 5.5 NM to fld.

ILS/DME 108.5 I-ALN Chan 22 Rwy 29 LOM ALPOS NDB. Unmonitored when twr clsd. LOC BC unusable byd 18° left and 23° right of course.

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



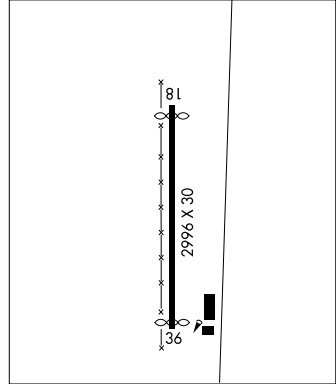
**APPLE RIVER****FOSTER FLD** (7A4) 6 SW UTC-6(-5DT) N42°27.99' W90°10.16'

CHICAGO

990 TPA—1790(800) NOTAM FILE IKK

**RWY 18-36:** H2996X30 (ASPH) MIRL(NSTD)**RWY 18:** Thld dsplcd 187'. Tree.**RWY 36:** Thld dsplcd 57'. Tree.

**AIRPORT REMARKS:** Unattended. Snow removal unavailable. Call for rwy conditions at 815-541-4282. ACTIVATE MIRL Rwy 18-36 —CTAF-7 clicks. Rwy 18-36 NSTD MIRL; non-frangible; spacing and ints. Rwy 18-36 20' turf shoulders. Ldg fee. Dsplcd thld Rwy 18 and Rwy 36 NSTD white stripe and numbers—no arrows.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**AURORA MUNI** (See CHICAGO AURORA)**BEARDSTOWN****GREATER BEARDSTOWN** (K06) 3 SE UTC-6(-5DT) N39°58.40' W90°24.22'

ST LOUIS

465 B TPA—1265(800) NOTAM FILE STL

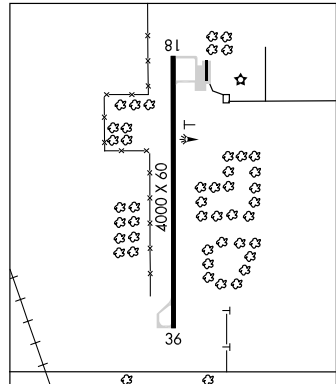
**RWY 18-36:** H4000X60 (ASPH) S-12.5 LIRL**RWY 18:** Tree.**RWY 36:** Tree.

**AIRPORT REMARKS:** Unattended. Rwy 18-36 cracks in rwy. LIRL Rwy 18-36 preset on low ints; to increase ints ACTIVATE—CTAF.

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

**SPINNER (H) VORTACW** 112.7 SPI Chan 74 N39°50.38' W89°40.66' 285° 34.5 NM to fld. 586/1W.

L-27B



## BELLEVILLE

**SCOTT AFB/MIDAMERICA** (BLV)(KBLV) MIL/CIV 14 E UTC-6(-5DT) N38°32.71' W89°50.11' ST LOUIS

459 B S1 FUEL 100LL, JET A+ TPA—See Remarks Class I, ARFF Index B

H-5D, L-27C, A

NOTAM FILE BLV

IAP, DIAP, AD

**RWY 14L-32R:** H10000X150 (CONC-GRVD) S-75, D-209, ST-175, DT-605, SBTT-593,

TRT-585, DDT-840 HIRL

**RWY 14L:** REIL. PAPI(P4R)—GA 3.0° TCH 72'.

**RWY 32R:** MALSR. PAPI(P4L)—GA 3.0° TCH 72'.

**RWY 14R-32L:** H8011X150 (ASPH-CONC) PCN 81 R/B/W/T HIRL

**RWY 14R:** MALSR. PAPI(P4L)—GA 3.0° TCH 65'. Rgt tfc.

0.4% down.

**RWY 32L:** MALSR. PAPI(P4L)—GA 3.0° TCH 72'. Thld dsplcd 210'.

**MILITARY SERVICE:** JASU 6(A/M32A-86) 3(AM32-95). MidAmerica 2(A/M32A-60B) 1(AM32-95) 2(A/M32A-86) 1(MD-4).

**FUEL A+ 100LL** (Arpt Terminal Svc avbl 1400-0200Z‡,

C618-566-5265. **FLUID SP**(Mil) PRESAIR(Mil) LHGX(Mil) LOX(Mil)

**OIL O-133-148**(Mil) SOAP(Mil) **TRAN ALERT** Opr weekdays

1200-0400Z‡, weekends 1300-0000Z‡, clsd Federal holidays,

see NOTAM. MidAmerica FBO svc provided by Air Terminal Svc

(ATS), opr 1400-0200Z‡ 24 hr PPR other times. FBO svc limited

to refueling only. Ctc FBO at C618-566-5265 for specific park

and svc. Mil svc not avbl to mil acft at civ ramp.

**AIRPORT REMARKS:** Attended continuously. FBO avbl 1200-2030Z‡,

C618-566-5320. Deer, birds and waterfowl on and invof arpt.

**CAUTION** Dense civil air traffic all quadrants, all altitudes. Use

caution when utilizing Twy G, 0.25 NM east of Rwy 14R-32L intersection, gradient change of 3° and a 70° turn

present, on coming traffic may not be visible due to terrain. Index C ARFF capability avbl one hr PPR call arpt ops

center 618-566-5227. Military ramps clsd to civil acft without prior coordination and a ldg permit number on

file. First 6000' of Rwy 32L is asph, remaining 2001' is conc; locked wheel turns on asph portion of rwy

prohibited. 180° turns on asph portion of rwy is authorized for light and medium category acft only. First 2000'

of Rwy 14R is concrete. Acft taxiing N on Twy A making left turn onto Foxtrog ramp—be alert—no twy centerline

due to acute angle of twy intersection. Acft taxiing N on Rwy 32L onto East Twy E—be alert—no twy centerline

due to acute angle of twy/rwy intersection. Rwy 14L touchdown rwy visual range avbl. Rwy 32L hold lines lctd on

Twy A abeam dsplcd thld. TPA—Overhead, fighter acft, 2500(2041), rectangular 2000(1541), light acft and

helicopter rectangular 1500(1041). During VFR conditions tkf, low approach, touch and go and clsd pattern, acft

will not exceed 2000' until fld boundary to avoid overhead pattern. Landing fee.

**MILITARY REMARKS:** See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** Official Business Only when Tran Alert clsd.

Scott AFB is PPR. The 375th Military Flight Svc section is the sole agent for issuing PPR numbers to military acft

opr on or from Scott AFB side. All inbound acft must ctc 375th comd post or 126th ANG comd post no later than

30 min prior to ldg. Military support may not be avbl on MidAmerica side of fld without prior coordination through

Scott AFB. PPR call DSN 576-1861, C618-256-1861, fax extension 6718. ANG ramp/services: ctc 126th AM

DSN 760-4275, C618-222-4275 or 126th Comd Post extension 4255, fax extension 4252. PPR issued up to

seven days prior to arrival. Parking at 126th ARW ramp is official business requiring 48 hrs PPR. AMC acft

restricted during Bird Aircraft Strike Hazard Phase II and when arpt enters Bird Watch Conditions Moderate or

Severe. When arpt is code Moderate or Severe no local IFR/VFR tfc pat. When arpt code Severe, tkf/ldg

prohibited without 375 OG/CC approval. During Phase II, daily Bird Aircraft Strike Hazard windows are estimated

as SR+1-SR-1 and SS+1-SS-1. During Bird Aircraft Strike Hazard window (when code Low) no trans pattern

permission, initial tkf/full stop ldg are at AC discretion. Ctc ATIS, PTD, 375 AW Comd Post or twr for current

code. Mil ramps clsd to civil aircraft without prior coordination and a landing permits number on file. Rwy 32L

hold line is on Twy A abeam Rwy 32L dsplcd thld. Limited de-icing capability. Acft commanders must coordinate

with SFA command post DSN 576-5891, C618-256-5891 for availability at least 24 hours prior to dep. **MISC**

Rwy 32L 1000' overrun (north end) avbl, Rwy 14R no overrun (south end) avbl. Acft arriving Scott AFB with more

than 30 passengers after hr ctc Base 24 hr in advance, C618-256-1861. Wx svc avbl Mon-Fri 0900-0100Z‡;

weekend and hol as dictated by local mission schedule, or during forecast severe wx conditions at DSN

576-5905, C618-256-5905. Wx svc avbl Mon-Fri 0900-0100Z‡, weekend and holiday as dictated by local

mission schedule, or during forecast severe wx conditions at DSN 576-5905, C618-256-5905. Wx observation

avbl 24 hrs via AN/FMQ-19 Automated Observing System. During wx flight hrs of closure remote service avbl

from 15 Opr Wx Squadron DSN 576-9755, C618-256-9755. During evacuation of wx flight ctc 150WS at

number above.

**COMMUNICATIONS:** SFA D-ATIS 128.7 256.7 (1200-0600Z‡) UNICOM 122.95 PTD 139.85 372.2

® ST LOUIS APP/DEP CON 125.2 281.5

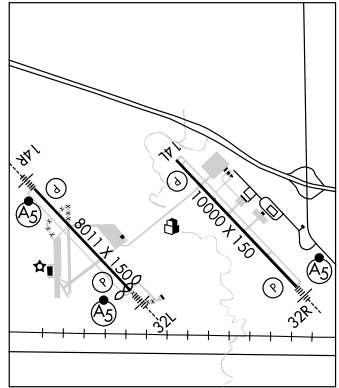
SCOTT TOWER 128.25 253.5 GND CON 119.2 275.8

CLNC DEL 119.875 263.025

375 AW COMD POST 130.65 383.2

126 ARW COMD POST 138.55 277.7 PMSV METRO 239.8

**AIRSPACE:** CLASS D svc continuous.



CONTINUED ON NEXT PAGE

EC, 08 APR 2010 to 03 JUN 2010

## CONTINUED FROM PRECEDING PAGE

RADIO AIDS TO NAVIGATION: NOTAM FILE STL.

TROY (L) VORTACW 116.0 TOY Chan 107 N38°44.35' W89°55.12' 157° 12.3NM to fld. 570/4E.

(T) TACAN Chan 59 SKE (112.2) N38°32.72' W89°51.10' at fld. 482/2E. No NOTAM MP Wed and Thu 1200-1600Z±.

GOOEY NDB (LOM) 385 JD N38°28.68' W89°44.27' 309° 6.1 NM to fld. No NOTAM MP Tue 1200-1600Z±.

ILS 109.9 I-OKX Rwy 14R. No NOTAM MP Mon and Tue 1200-1600Z±.

ILS/DME 111.15 I-BTC Chan 48(Y) Rwy 14L. Class IE. No NOTAM MP Wed and Thu 1200-1600Z±.

ILS 111.15 I-JDU Rwy 32R. Class ID LOM GOOEY NDB. No NOTAM MP Wed and Thu 1200-1600Z±.

ILS 109.9 I-BLV Rwy 32L. No NOTAM MP Mon and Tue 1200-1600Z±.

ASR

**BELLGRADE** N37°08.73' W88°40.23' NOTAM FILE PAH.

ST LOUIS

NDB (MHW) 254 BDD 224° 7.1 NM to Barkley Rgnl.

L-16I

**BENTON MUNI** (H96) 1 W UTC-6(-5DT) N38°00.41' W88°56.07'

ST LOUIS

444 B FUEL 100LL TPA-1244(800) NOTAM FILE STL

L-16H

RWY 18-36: H4000X75 (ASPH) S-4 MIRL

RWY 18: Tree. RWY 36: Tree.

AIRPORT REMARKS: Attended Fri-Sun 1400-0000Z±. MIRL Rwy 18-36 preset on low ints; to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE STL.

CENTRALIA (H) VORTAC 115.0 ENL Chan 97 N38°25.20' W89°09.54' 153° 27 NM to fld. 546/4E. HIWAS.

**BIBLE GROVE** N38°55.22' W88°28.91' NOTAM FILE STL.

ST LOUIS

(L) VORTAC 109.0 BIB Chan 27 342° 9.3 NM to Effingham Co Mem. 540/3E.

H-5E, L-27C

RCO 122.05R 109.0T (ST LOUIS RADIO)

**BLOOMINGTON** N40°28.85' W88°55.88' NOTAM FILE BMI.

CHICAGO

(L) VOR/DME 108.2 BMI Chan 19 at Central Illinois Rgnl Arpt at Bloomington-Normal 882/3E.

L-27C

VOR unusable 091°-149°, 221°-235° and 291°-314°.

RCO 123.6R 108.2T (KANKAKEE RADIO)

## CONTINUED FROM PRECEDING PAGE

RADIO AIDS TO NAVIGATION: NOTAM FILE STL.

TROY (L) VORTACW 116.0 TOY Chan 107 N38°44.35' W89°55.12' 157° 12.3NM to fld. 570/4E.

(T) TACAN Chan 59 SKE (112.2) N38°32.72' W89°51.10' at fld. 482/2E. No NOTAM MP Wed and Thu 1200-1600Z±.

GOOEY NDB (LOM) 385 JD N38°28.68' W89°44.27' 309° 6.1 NM to fld. No NOTAM MP Tue 1200-1600Z±.

ILS 109.9 I-OKX Rwy 14R. No NOTAM MP Mon and Tue 1200-1600Z±.

ILS/DME 111.15 I-BTC Chan 48(Y) Rwy 14L. Class IE. No NOTAM MP Wed and Thu 1200-1600Z±.

ILS 111.15 I-JDU Rwy 32R. Class ID LOM GOOEY NDB. No NOTAM MP Wed and Thu 1200-1600Z±.

ILS 109.9 I-BLV Rwy 32L. No NOTAM MP Mon and Tue 1200-1600Z±.

ASR

**BELLGRADE** N37°08.73' W88°40.23' NOTAM FILE PAH.

ST LOUIS

NDB (MHW) 254 BDD 224° 7.1 NM to Barkley Rgnl.

L-16I

**BENTON MUNI** (H96) 1 W UTC-6(-5DT) N38°00.41' W88°56.07'

ST LOUIS

444 B FUEL 100LL TPA-1244(800) NOTAM FILE STL

L-16H

RWY 18-36: H4000X75 (ASPH) S-4 MIRL

RWY 18: Tree. RWY 36: Tree.

AIRPORT REMARKS: Attended Fri-Sun 1400-0000Z±. MIRL Rwy 18-36 preset on low ints; to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE STL.

CENTRALIA (H) VORTAC 115.0 ENL Chan 97 N38°25.20' W89°09.54' 153° 27 NM to fld. 546/4E. HIWAS.

**BIBLE GROVE** N38°55.22' W88°28.91' NOTAM FILE STL.

ST LOUIS

(L) VORTAC 109.0 BIB Chan 27 342° 9.3 NM to Effingham Co Mem. 540/3E.

H-5E, L-27C

RCO 122.05R 109.0T (ST LOUIS RADIO)

**BLOOMINGTON** N40°28.85' W88°55.88' NOTAM FILE BMI.

CHICAGO

(L) VOR/DME 108.2 BMI Chan 19 at Central Illinois Rgnl Arpt at Bloomington-Normal 882/3E.

L-27C

VOR unusable 091°-149°, 221°-235° and 291°-314°.

RCO 123.6R 108.2T (KANKAKEE RADIO)

**BLOOMINGTON/NORMAL****CENTRAL ILLINOIS RGNL ARPT AT BLOOMINGTON-NORMAL (BMI) 3 E UTC-6(-5DT)****CHICAGO  
H-5E, L-27C  
IAP, AD**

N40°28.63' W88°54.96'

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

**RWY 02-20:** H8000X150 (CONC-GRVD) S-75, D-150, ST-175,

DT-300 HIRL CL

**RWY 02:** MALSR. PAPI(P4R)—GA 3.0° TCH 50'.**RWY 20:** ALSF2. TDZL. P-line.**RWY 11-29:** H6525X150 (ASPH-CONC-GRVD) S-75, D-105,

ST-175, DT-300 HIRL

**RWY 11:** VASI(V4R)—GA 3.0° TCH 43'.**RWY 29:** MALSR.**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
<b>RWY 02</b>	11-29	4600
<b>RWY 11</b>	02-20	6200

**RUNWAY DECLARED DISTANCE INFORMATION****RWY 02:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000**RWY 11:** TORA-6525 TODA-6525 ASDA-6525 LDA-6525**RWY 20:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000**RWY 29:** TORA-6525 TODA-6525 ASDA-6525 LDA-6525**AIRPORT REMARKS:** Attended 1200-0500Z±. Birds and deer on and in/ov

arpt. Snow removal ops in progress winter months; equipment ops

will be monitoring CTAF when twr closed. SE end of Rwy 29 565'

conc, remaining 5960' asph. 48 hr PPR for unscheduled air carrier ops with more than 30 passengers seats

call arpt manager 309-663-7383. Rwy 02 touchdown, midfield and rollout rwy visual range avbl. Rwy 20

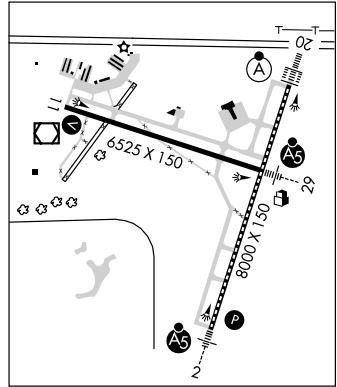
touchdown, midfield and rollout rwy visual range avbl. Rwy 29 touchdown rwy visual range avbl. Rwy 20 ALSF2

operates as SSALR when twr clsd. Actg Idg/departing Bloomington should announce intentions on CTAF when

twr clsd. When twr clsd HIRL Rwy 11-29 preset on low ints; to increase ints and ACTIVATE HIRL Rwy 02-20,

MALSR Rwy 02 and Rwy 29 and PAPI Rwy 02, VASI Rwy 11—CTAF. ALSF avbl when twr open. Centerline lgts

Rwy 02-20 only avbl when twr open. TDZL lgts Rwy 20 only avbl when twr open.

**WEATHER DATA SOURCES:** ASOS 135.35 (309) 661-9478. LAWRS.**COMMUNICATIONS:** CTAF 124.6 ATIS 135.35 UNICOM 122.95**BLOOMINGTON RCO 123.6R 108.2T (KANKAKEE RADIO)****(R) PEORIA APP/DEP CON 128.725****BLOOMINGTON TOWER 124.6 (1200-0400Z±). GND CON 121.65****AIRSPACE:** CLASS D svc 1200-0400Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE BMI.**BLOOMINGTON (L) VOR/DME 108.2 BMI Chan 19 N40°28.85' W88°55.88' at fld. 882/3E.****EGROW NDB (LOM) 334 LH N40°33.62' W88°52.48' 201° 5.3 NM to fld. SHUTDOWN.****ILS/DME 111.9 I-LHJ Chan 56. Rwy 20. LOM EGROW NDB. Unmonitored when twr is clsd. Category****II ILS is not avbl when twr clsd. LOM SHUTDOWN.****ILS 108.3 I-BMI Rwy 29. Unmonitored when twr is clsd. LOC BC unusable byd 15 NM.****ILS/DME 111.9 I-TXN Chan 56. Rwy 02. Unmonitored when twr clsd.**

**BOLINGBROOK****BOLINGBROOK'S CLOW INTL** (1C5) 0 NW UTC-6(-5DT) N41°41.76' W88°07.75'CHICAGO  
COPTER  
L-28H, A  
IAP

670 B S4 FUEL 100LL, JET A TPA-1270(600) NOTAM FILE IKK

RWY 18-36: H3362X50 (ASPH) LIRL (NSTD) 0.5% up N.

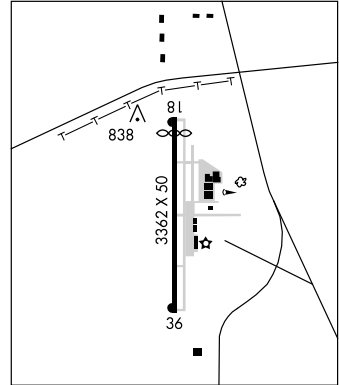
RWY 18: Thld dsplcd 190'. Tree. RWY 36: Building.

AIRPORT REMARKS: Attended 1300-0000Z†. Rwy 18-36 NSTD LIRL, spacing and ints varies. Twy only 20' wide. Large acft consider back-taxi.

COMMUNICATIONS: CTAF 122.9

Ⓡ CHICAGO APP/DEP CON 119.35

RADIO AIDS TO NAVIGATION: NOTAM FILE IKK.

JOLIET (H) VORTAC 112.3 JOT Chan 70 N41°32.78'  
W88°19.10' 041° 12.4 NM to fld. 592/2E.**BRADFORD** N41°09.58' W89°35.27' NOTAM FILE IKK.CHICAGO  
H-5D, L-27C

(H) VORTAC 114.7 BDF Chan 94 133° 12.4 NM to Marshall Co. 810/OE.

VOR portion unusable 189°-199° blo 3500' and between 25 and 35 NM.

RCO 123.6 122.05R 114.7T (KANKAKEE RADIO).

**BRESSON** (See COMPTON)**BULT FIELD** (See MONEE)**CABBI** N37°52.20' W89°14.73' NOTAM FILE MDH.

ST LOUIS

NDB (LOM) 388 MD 184° 5.5 NM to Southern Illinois. Unmonitored when twr clsd.



## CAHOKIA/ST LOUIS

## ST LOUIS DOWNTOWN

(CPS) 1E UTC-6(-5DT) N38°34.24' W90°09.37'

ST LOUIS

413 B S4 FUEL 100LL, JET A OX 1 LRA ARFF Index—See Remarks NOTAM FILE STL H-5D, L-27C, A

RWY 12R-30L: H6997X100 (ASPH) S-43, D-71, ST-90, DT-100 MIRL

IAP, AD

RWY 12R: REIL. Tree.

RWY 30L: MALSR. VASI(V4L)—GA 3.0° TCH 50'. Pole.

RWY 12L-30R: H3800X75 (CONC) S-30, D-30 MIRL

RWY 12L: REIL. Tree. RWY 30R: REIL. Tree.

RWY 05-23: H2799X75 (ASPH) S-12 MIRL

RWY 05: Tree. RWY 23: Tower.

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-2799 TODA-2799 ASDA-2799 LDA-2799

RWY 12L: TORA-3800 TODA-3800 ASDA-3800 LDA-3800

RWY 12R: TORA-6997 TODA-6997 ASDA-6997 LDA-6997

RWY 23: TORA-2799 TODA-2799 ASDA-2799 LDA-2799

RWY 30L: TORA-6997 TODA-6997 ASDA-6997 LDA-6997

RWY 30R: TORA-3800 TODA-3800 ASDA-3800 LDA-3800

**AIRPORT REMARKS:** Attended continuously. Deer and migratory waterfowl on and in/ov arpt. Be alert: intensive student training, helicopter operations, and frequent blimp operations. Class IV, ARFF Index A. ARFF avbl Mon-Fri 1300-0200Z†, other times by request 618-337-6060. Unscheduled air carrier ops greater than 30 passenger seats require 12 hr prior permission. Mon-Fri (1400-2230Z†) ctc 618-337-6060. After hrs ctc 618-646-8263. Index B ARFF protection provided. Rwy 05-23 not avbl for air carrier ops except taxi ops. Rwy 12L-30R not avb for air carrier ops except taxi ops. During daylight hours and when twr closed right t/c Rwy 12R and Rwy 30R. MIRL Rwy 12R-30L preset on med ints when twr clsd, MIRL Rwy 12L-30R not avbl when twr clsd. ACTIVATE MALSR Rwy 30L when twr clsd—CTAF. Rwy 12R-30L lgts OTS except med ints.

**WEATHER DATA SOURCES:** ASOS (618) 332-0001. LAWRS.**COMMUNICATIONS:** CTAF 119.925 ATIS 121.45 UNICOM 122.95

① APP/DEP CON 123.7 CLNC DEL 118.275 (0300-1300Z†)

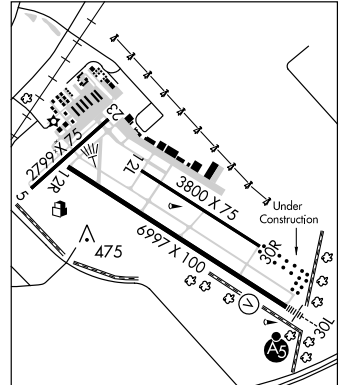
DOWNTOWN TOWER 119.925 (1230-0400Z†) GND CON 121.8

**AIRSPACE:** CLASS D svc 1230-0400Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

TROY (L) VORTACW 116.0 TOY Chan 107 N38°44.35' W89°55.12' 224° 15.1 NM to fld. 570/4E.

ACORE NDB (LOM) 350 CP N38°31.19' W90°03.57' 304° 5.5 NM to fld.

ILS 109.1 I-CPS Rwy 30L. Class IA. LOM ACORE NDB. LOC and OM unmonitored when twr clsd. LOC unusable from 0.2 NM inbound and byd 14° right of course.

**COMM/NAV/WEATHER REMARKS:** Emerg frequency 121.5 not avbl at twr.**CALDE** N39°47.83' W89°35.52' NOTAM FILE SPI.

ST LOUIS

NDB (LOM) 240 CJ 306° 4.9 NM to Abraham Lincoln Capital.

**CAIRO RGNL** (CIR) 4 NW UTC-6(-5DT) N37°03.87' W89°13.18'

ST LOUIS

321 B FUEL 100LL NOTAM FILE CIR

L-16H

RWY 14-32: H4003X100 (ASPH) S-30, D-35 MIRL

IAP

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Tree.

RWY 32: Tree.

RWY 02-20: H3201X60 (ASPH) S-6 MIRL

RWY 02: Tree. RWY 20: Tree.

**AIRPORT REMARKS:** Attended 1400-2330Z†. Self svc fuel avbl 24 hrs.

Parachute Jumping on weekends. MIRL Rwy 14-32 preset low ints; to increase ints ACTIVATE—CTAF. MIRL Rwy 02-20 by prior req only call 618-734-0600.

**WEATHER DATA SOURCES:** AWOS-3 118.025 (618) 734-9173.**COMMUNICATIONS:** CTAF/UNICOM 122.8

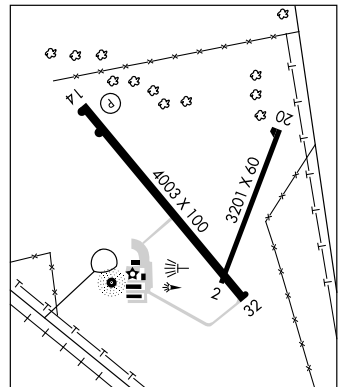
MEMPHIS CENTER APP/DEP CON 133.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PAH.

CUNNINGHAM (L) VORTACW 113.1 CNG Chan 78 N37°00.52'

W88°50.21' 277°18.7 NM to fld. 480/3E.

NDB (MHW) 397 CIR N37°03.70' W89°13.41' at fld. NOTAM FILE CIR.



**CAMPBELL** (See GRAYSLAKE)**CANTON** N40°33.95' W90°04.62' NOTAM FILE IKK.  
NDB (MHW) 236 CTK at Ingersoll.**CHICAGO**  
L-27B**CANTON****INGERSOLL** (CTK) 2 NW UTC-6(-5DT) N40°34.15' W90°04.49'**CHICAGO**  
L-27B  
IAP

684 B S4 FUEL 100LL, MOGAS TPA-1484(800) NOTAM FILE PIA

RWY 18-36: H3899X75 (ASPH) S-10 MIRL 0.3% up N

RWY 18: Trees. RWY 36: REIL. Trees.

RWY 09-27: H3295X60 (ASPH) S-11 MIRL

RWY 09: Pole. RWY 27: Tree.

AIRPORT REMARKS: Attended 1300Z±-dusk. ACTIVATE MIRL Rwy's  
09-27 and 18-36 and REIL Rwy 36 and twy lgts-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ PEORIA APP/DEP CON 124.675

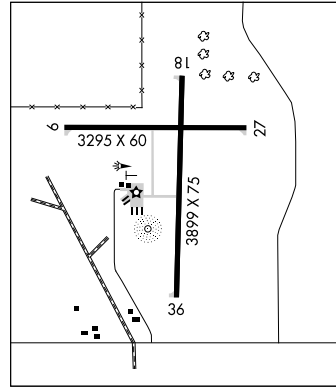
RADIO AIDS TO NAVIGATION: NOTAM FILE PIA.

PEORIA (L) VORTACW 115.2 PIA Chan 99 N40°40.80'

W89°47.57' 239° 14.5 NM to fld. 730/4E.

CANTON NDB (MHW) 236 CTK N40°33.95' W90°04.62' at fld.

NOTAM FILE IKK.



**CARBONDALE/MURPHYSBORO**

SOUTHERN ILLINOIS (MDH) 3 NW UTC-6(-5DT) N37°46.69' W89°15.12'

ST LOUIS

411 B S4 FUEL 100LL, MOGAS Class IV, ARFF Index A NOTAM FILE MDH

H-5E, L-16H

RWY 18L-36R: H6506X100 (ASPH-GRVD-PFC) S-80, D-99.5, ST-126, DT-150 HIRL

IAP, AD

RWY 18L: MALSR.

RWY 36R: REIL. VASI(V4L)—GA 4.0° TCH 69'. Pole.

RWY 06-24: H4164X100 (ASPH-PFC) S-36, D-47, DT-70 MIRL

RWY 06: REIL. VASI(V4L)—GA 3.5° TCH 48'. Trees.

RWY 24: REIL. PAPI(P4R)—GA 3.5° TCH 25'.

RWY 18R-36L H3498X60 (ASPH) S-30, D-42, DT-60 MIRL

RWY 18R: PVASI(PSIL)—GA 3.0° TCH 27'. Trees.

RWY 36L: PVASI(PSIL)—GA 3.0° TCH 25'. Trees.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 06	18L-36R	3100
RWY 24	18R-36L	3800
RWY 36R	06-24	3000

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 06:	TORA-4164	TODA-4164	ASDA-4164	LDA-4164
RWY 18L:	TORA-6506	TODA-6506	ASDA-6506	LDA-6506
RWY 18R:	TORA-3498	TODA-3498	ASDA-3498	LDA-3498
RWY 24:	TORA-4164	TODA-4164	ASDA-4164	LDA-4164
RWY 36L:	TORA-3498	TODA-3498	ASDA-3498	LDA-3498
RWY 36R:	TORA-6506	TODA-6506	ASDA-6506	LDA-6506

**AIRPORT REMARKS:** Attended continuously. Birds on and in/ov arpt.

Heavy student training activity. PPR 24 hrs for air carrier ops with

more than 30 passenger seats call arpt manager Mon-Fri

618-529-1721. Rwy 06-24 and Rwy 18R-36L not avbl for air

carrier ops with more than 30 passenger seats. Rwy 06-24

restricted to acft 12,500 pounds or less; unless prior arrangement

with twr. Rwy 18R PVASI unusable byd 6° right of course. When twr clsd HIRL Rwy 18L-36R preset med ints

only; ACTIVATE MALSR Rwy 18L and VASI Rws 06, 36R and PAPI Rwy 24—CTAF. When twr clsd MIRL Rwy

06-24; MIRL Rwy 18R-36L and PVASI Rwy 18R and Rwy 36L by req only—call 618-529-2221.

**WEATHER DATA SOURCES:** ASOS (618) 529-1821. LAWRS.**COMMUNICATIONS:** CTAF 125.35 ATIS 119.85 UNICOM 122.95

KANSAS CITY CENTER APP/DEP CON 125.3

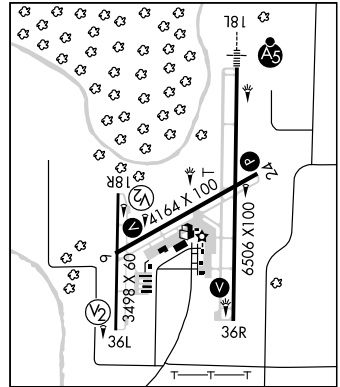
CARBONDALE TOWER 125.35 126.25 (1300-0300Z) GND CON 121.8

**AIRSPACE:** CLASS D svc 1300-0300Z other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MWA.

MARION (L) VOR/DME 110.4 MWA Chan 41 N37°45.26' W89°00.70' 273° 11.5 NM to fld. 468/4E.

CABBIE NDB (LOM) 388 MD N37°52.20' W89°14.73' 184° 5.5 NM to fld. Unmonitored when twr clsd.

ILS 110.9 I-MDH Rwy 18L. Class IE. LOM CABBIE NDB. ILS unmonitored when twr clsd.

**CARMI MUNI** (CUL) 2E UTC-6(-5DT) N38°05.37' W88°07.38'

ST LOUIS

388 B FUEL 100LL, MOGAS TPA-1188(800) NOTAM FILE CUL

L-16I

RWY 18-36: H4001X75 (ASPH) S-12 MIRL

IAP, AD

RWY 18: VASI(V2L)—GA 3.0° TCH 20'. Tree.

RWY 36: REIL. VASI(V2L)—GA 3.0° TCH 20'. Tree.

**AIRPORT REMARKS:** Attended 1500-2300Z. Parachute Jumping. MIRL

Rwy 18-36 preset on low ints; to increase ints and ACTIVATE VASI

Rws 18 and 36 and REIL Rwy 36—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.425 (618) 382-3760.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® EVANSVILLE APP/DEP CON 127.35 (1200-0500Z)

® INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z)

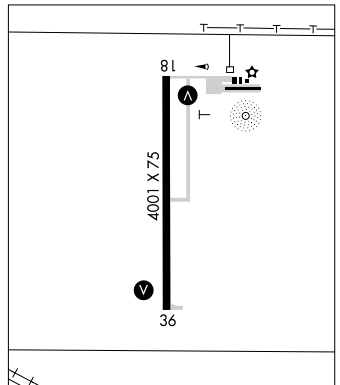
**RADIO AIDS TO NAVIGATION:** NOTAM FILE HUF.

POCKET CITY (H) VORTAC 113.3 PXV Chan 80 N37°55.70'

W87°45.74' 297° 19.6 NM to fld. 384/3E. HIWAS.

NDB (MHW) 332 CUL N38°05.61' W88°07.18' at fld. NOTAM

FILE CUL.



**CASEY MUNI** (1H8) 1 NW UTC-6(-5DT) N39°18.15' W88°00.24'

ST LOUIS

654 B S4 FUEL 100LL TPA-1454(800) NOTAM FILE STL

L-27C

RWY 04-22: H4002X75 (ASPH) S-12 MIRL

IAP

RWY 04: REIL. Trees. RWY 22: Road. Rgt tfc.

RWY 18-36: 1965X100 (TURF)

RWY 18: Thld dsplcd 315'. Road. Rgt tfc. RWY 36: Road.

**AIRPORT REMARKS:** Attended 1400Z±-2300Z±. MIRL Rwy 04-22 and REIL Rwy 04 preset on low ints; to incr ints and ACTIVATE twy lgts—CTAF. Rwy 18 dsplcd thld marked with white gravel in shape of "L" on rwy edges.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

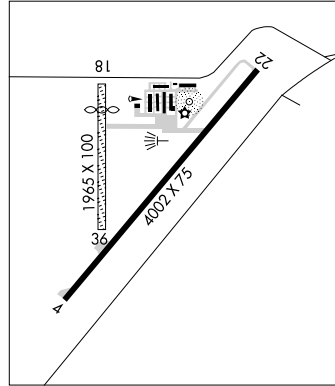
Ⓡ HULMAN APP/DEP CON 125.45 (1100-0300Z±)

Ⓡ INDIANAPOLIS CENTER APP/DEP CON 132.2 (0300-1100Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

**BIBLE GROVE (L) VORTAC** 109.0 BIB Chan 27 N38°55.22'  
W88°28.91' 041° 32 NM to fld. 540/3E.

**NDB (MHW) 359 CZB** N39°18.31' W88°00.12' at fld.  
Unmonitored. NOTAM FILE STL.

**CENTRAL ILLINOIS RGNL ARPT AT BLOOMINGTON-NORMAL** (See BLOOMINGTON/NORMAL)**CENTRALIA MUNI** (ENL) 2 E UTC-6(-5DT) N38°30.91' W89°05.47'

ST LOUIS

534 B S2 FUEL 100LL, JET A NOTAM FILE ENL

H-5E, L-27C

RWY 18-36: H5001X75 (ASPH) S-30, D-40 MIRL 0.3% up S

IAP

RWY 18: REIL. VASI(V2L)—GA 3.0° TCH 25'. Tree.

RWY 36: REIL. VASI(V2L)—GA 3.0° TCH 25'. Tree.

RWY 09-27: H3300X60 (ASPH) S-12.5 MIRL

RWY 09: REIL. Road.

RWY 27: REIL. Tree.

**AIRPORT REMARKS:** Attended 1400Z±-dusk. For svc after hrs call 618-533-1626. MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27 on request through UNICOM.

**WEATHER DATA SOURCES:** AWOS-3 121.125 (618) 533-4417. HIWAS 115.0 ENL.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.1R 115.0T (ST LOUIS RADIO)

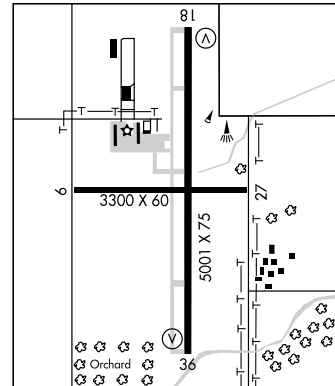
KANSAS CITY CENTER APP/DEP CON 127.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

(H) VORTAC 115.0 ENL Chan 97 N38°25.20'

W89°09.54' 025° 6.5 NM to fld. 546/4E. HIWAS.

VOR portion unusable 100°-134° blo 3000'; 135°-140° blo 2700'.

**CHAMPAIGN** N40°02.07' W88°16.56' NOTAM FILE CMI.

CHICAGO

(L) VORTAC 110.0 CMI Chan 37 at University of Illinois-Willard. 745/3E.

L-27C

RCO 122.1R 110.0T (ST LOUIS RADIO)

**CHAMPAIGN/URBANA** N40°02.07' W88°16.56'

CHICAGO

RCO 122.45 (ST LOUIS RADIO)

L-27C

**CHAMPAIGN/URBANA****UNIVERSITY OF ILLINOIS—WILLARD** (CMI) 5 SW UTC-6(-5DT) N40°02.33' W88°16.67'

755 B S4 FUEL 100LL, JET A1 + OX 1 TPA-1505(750) Class I, ARFF Index B

**CHICAGO**

H-5E, L-27C

NOTAM FILE CMI

IAP, AD

**Rwy 14L-32R:** H8102X150 (ASPH-CONC-GRVD) S-100, D-180, ST-175, DT-260 HIRL**Rwy 14L:** VASI(V4L)—GA 3.0° TCH 31'.**Rwy 32R:** MALSR. VASI(V4L)—GA 3.0° TCH 54'.**Rwy 04-22:** H6501X150 (CONC-GRVD) S-100, D-180, ST-175, DT-260 MIRL**Rwy 04:** VASI(V4L)—GA 3.0° TCH 45'.**Rwy 22:** VASI(V4L)—GA 3.0° TCH 41'. Tree.**Rwy 18-36:** H5302X150 (CONC) S-40, D-50, DT-90 MIRL**Rwy 36:** VASI(V4L)—GA 3.0° TCH 40'. Tree.**Rwy 14R-32L:** H3817X75 (ASPH) S-12.5, D-12.5, ST-175 MIRL**Rwy 14R:** PAPI(P4L)—GA 3.0° TCH 35'.**Rwy 32L:** PAPI(P4L)—GA 3.0° TCH 35'.**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
<b>Rwy 04</b>	14L-32R	3600
<b>Rwy 14L</b>	04-22	3550
<b>Rwy 18</b>	04-22	4100
<b>Rwy 22</b>	18-36	4700
<b>Rwy 32R</b>	04-22	4050
<b>Rwy 36</b>	14L-32R	3950

**RUNWAY DECLARED DISTANCE INFORMATION****Rwy 14R:** TORA-3817 TODA-3817 ASDA-3817 LDA-3817**Rwy 32L:** TORA-3817 TODA-3817 ASDA-3817 LDA-3817

**AIRPORT REMARKS:** Attended 1200-0400Z†. Rwy 18-36 CLOSED 0500-1200Z†. Rwy 18-36 CLOSED to scheduled air carrier ops 10 seats or more and clsd to unscheduled air carrier ops greater than 30 passenger seats. Avbl for air carrier taxi only. Rwy 14R-32L CLOSED 0500-1200Z†. Birds on and in/ovf arpt. AER 22 and 32 not visible from each other. Rwy 14L and Rwy 18 apch ends are closely aligned. Rwy 04 and Rwy 36 apch ends are closely aligned. Verify correct rwy and compass heading prior to departure. 24 hr PPR for unscheduled air carrier ops with more than 30 passenger seats between 0400-1200Z†, call arpt manager 217-244-8634/8764. Taxiing acft should use caution in early morning and late afternoon hrs; sun glare may make visual recognition of signs and pavement markings difficult. Twy A5 and Twy C1 southwest of Rwy 14L-32R closed to acft over 11800 lbs. Twy A6 and A7, adjacent to ramp, not visible from the control twr. When twr is clsd Rwy 32R is the preferred calm wind rwy. When twr clsd HIRL Rwy 14L-32R preset on radio control, to increase ints and ACTIVATE MIRL Rwy 04-22 and MALSR Rwy 32R—CTAF. Itinerant parking on SE ramp only.

**WEATHER DATA SOURCES:** ASOS (217) 352-9118.**COMMUNICATIONS:** CTAF 120.4 ATIS 124.85 UNICOM 122.95

CHAMPAIGN RCO 122.1R 110.0T (ST LOUIS RADIO)

CHAMPAIGN/URBANA RCO 122.45 (ST LOUIS RADIO)

Ⓡ CHAMPAIGN APP/DEP CON 132.85 (136°-315°) 121.35 (316°-135°) 133.97 (1200-0500Z†)

CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z†)

CHAMPAIGN TOWER 120.4 118.25 (1200-0500Z†) GND CON 121.8 CLNC DEL 128.75

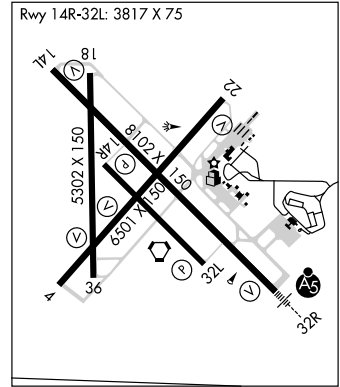
**AIRSPACE:** CLASS C svc 1200-0500Z† ctc APP CON other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CMI.

CHAMPAIGN (L) VORTAC 110.0 CMI Chan 37 N40°02.07' W88°16.56' at fld. 745/3E.

VEALS NDB (LOM) 407 CM N39°57.97' W88°10.95' 315° 6.2 NM to fld.

ILS 109.1 I-CMI Rwy 32R. Class IE. LOM VEALS NDB. ILS unmonitored when twr clsd.

ASR (1200-0500Z†)



**CHICAGO****CHICAGO MIDWAY INTL** (MDW) 9SW UTC-6(-5DT) N41°47.16' W87°45.15'

620 B S4 FUEL 100LL, JET A1 + OX 2, 4 AOE ARFF Index—See Remarks

NOTAM FILE MDW

**RWY 13C-31C:** H6522X150 (CONC-GRVD) S-95, D-165, ST-175, DT-250 HIRL**RWY 13C:** LDIN. PAPI (P4R)—GA 3.0° TCH 46'. Thld dsplcd 463'. Road.**RWY 31C:** LDIN. REIL. VASI(V4L)—GA 3.0° TCH 44'. Thld dsplcd 696'. Road.**RWY 04R-22L:** H6446X150 (CONC-ASPH-GRVD) S-95, D-165, ST-175, DT-250 HIRL**RWY 04R:** REIL. PAPI(P4L)—GA 3.0° TCH 66'. Thld dsplcd 518'. Road.**RWY 22L:** REIL. PAPI(P4R)—GA 3.0° TCH 43'. Thld dsplcd 634'. Road.**RWY 04L-22R:** H5507X150 (ASPH-GRVD) S-60, D-120, ST-152 MIRL**RWY 04L:** VASI(V4R)—GA 3.75° TCH 55'. Thld dsplcd 758'. Road.**RWY 22R:** PAPI(P4L)—GA 3.0° TCH 35'. Thld dsplcd 878'. Road.**RWY 13L-31R:** H5141X150 (ASPH-GRVD) S-80, D-125, ST-159 MIRL**RWY 13L:** Thld dsplcd 752'. Road.**RWY 31R:** PAPI(P4L)—GA 3.0° TCH 44'. Tree.**RWY 13R-31L:** H3859X60 (CONC) S-12.5 MIRL**RWY 13R:** Pole.**RWY 31L:** Tree.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 04L:** TORA-5507 TODA-5507 ASDA-5507 LDA-4749**RWY 04R:** TORA-6446 TODA-6446 ASDA-6446 LDA-5928**RWY 13L:** TORA-5141 TODA-5141 ASDA-5141 LDA-4389**RWY 13C:** TORA-6522 TODA-6522 ASDA-6522 LDA-6059**RWY 22L:** TORA-6446 TODA-6446 ASDA-6446 LDA-5812**RWY 22R:** TORA-5507 TODA-5507 ASDA-5507 LDA-4629**RWY 31C:** TORA-6522 TODA-6522 ASDA-6522 LDA-5826**RWY 31R:** TORA-5141 TODA-5141 ASDA-5141 LDA-5141**ARRESTING GEAR/SYSTEM****RWY 04R:** EMAS**RWY 13C:** EMAS**RWY 22L:** EMAS**RWY 31C:** EMAS

**AIRPORT REMARKS:** Attended continuously. Birds on and invof arpt. Arpt CLOSED to solo student training. Rwy 13R-31L; Rwy 13L-31R and Rwy 04L-22R not avbl for scheduled air carrier ops with more than 9 passenger seats or unscheduled air carrier ops at least 31 passenger seats. Class I, ARFF Index C. Class I ARFF Index C. ARFF Index D equipment avbl with 8 hrs notification to arpt ops 773-838-0677. Noise abatement procedures: all departures are requested to expedite climb through 1500' MSL 0400-1200Z† daily. ASDE-X surveillance system in use. Pilots should operate transponders with Mode C on all twys and rwys. Twy A and F clsd to acft over 79' wing span. Rwy 22L preferred departure rwy 0400-1300Z†. Rwy 31C VASI OTS indef. Rwy 31C VASI unusable byd 7.5° right of centerline. Ldg fee. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS 132.75 (773) 581-8094.**COMMUNICATIONS:** D-ATIS 132.75 (773) 581-9967 UNICOM 122.95

Ⓡ APP/DEP CON 118.4 126.05

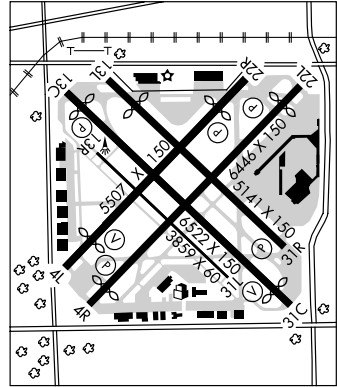
MIDWAY TOWER 118.7 GND CON 121.65 CLNC DEL 121.85 PRE TAXI CLNC 121.85

AIRSPACE: CLASS C svc continuous etc MIDWAY RADAR 119.45 135.2

RADIO AIDS TO NAVIGATION: NOTAM FILE IKK.

**CHICAGO HEIGHTS (L) VORTAC** 114.2 CGT Chan 89 N41°30.60' W87°34.29' 332° 18.4 NM to fld. 634/2E.**ERMIN NDB (MHW/LOM)** 332 HK N41°43.14' W87°50.18' 044° 5.5 NM to fld. NOTAM FILE MDW.**KEDZI NDB (MHW/LOM)** 248 MX N41°44.49' W87°41.38' 315° 3.9 NM to fld. NOTAM FILE MDW.**ILS/DME** 109.9 I-MDW Chan 36 Rwy 13C. Class IE.

DME also serves Rwy 31C. DME unusable byd 25° left of course.

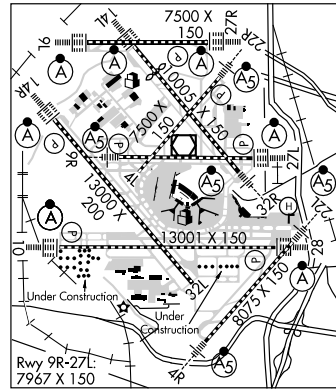
**ILS** 111.5 I-HKH Rwy 04R. Class IE. LOM ERMIN NDB.**ILS/DME** 109.9 I-MXT Chan 36 Rwy 31C. Class IC. LOM KEDZI NDB. DME also serves Rwy 13C.

**CHICAGO O'HARE INTL** (ORD) 14 NW UTC-6(-5DT) N41°58.86' W87°54.40'

**CHICAGO**

672 B S4 FUEL 100LL, JET A1 OX 1, 2, 3, LRA Class I, ARFF Index E NOTAM FILE ORD  
**COPTER**  
 RWY 14R-32L: H13000X200 (ASPH-CONC-GRVD) S-100, D-185, ST-175, DT-350  
 H-5E, L-28H, A  
 PCN 108 R/C/W/U HIRL CL  
 IAP, AD

RWY 14R: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 69'. Trees.  
 RWY 32L: TDZL. Pole.  
 RWY 10-28: H13001X150 (ASPH-CONC-GRVD) S-100, D-185,  
 ST-175, DT-350 PCN 108 R/C/W/U HIRL CL  
 RWY 10: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 74'. Pole.  
 0.3% down.  
 RWY 28: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 79'. Sign.  
 RWY 14L-32R: H10005X150 (ASPH-GRVD) S-100, D-185, ST-175,  
 DT-350 PCN 108 R/C/W/U HIRL CL  
 RWY 14L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 75'. Thld dsp lcd  
 1998'.  
 RWY 32R: MALSR. TDZL. Pole.  
 RWY 04R-22L: H8075X150 (ASPH-GRVD) S-100, D-200, ST-175,  
 DT-350 PCN 108 R/C/W/U HIRL CL  
 RWY 04R: MALSR. TDZL. 0.3% down.  
 RWY 22L: MALSR. TDZL. Antenna.  
 RWY 09R-27L: H7967X150 (ASPH-CONC-GRVD) S-100, D-210,  
 DT-350 PCN 108 R/C/W/U HIRL CL  
 RWY 09R: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 74'.  
 RWY 27L: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 72'. Antenna.  
 RWY 04L-22R: H7500X150 (ASPH-GRVD) S-100, D-185, ST-175, DT-350 PCN 108 R/C/W/U HIRL CL  
 RWY 22R: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 69'.  
 RWY 09L-27R: H7500X150 (CONC-GRVD) S-75, D-210, DT-500, DD-913 HIRL CL  
 RWY 09L: ALSF2. TDZL. Antenna. RWY 27R: ALSF2. TDZL. Antenna.



**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 09R	14L-32R	6100
RWY 10	Twy S	12156
RWY 14R	10-28	9800
RWY 22R	09R-27L	6050
RWY 27L	04L-22R	5700
RWY 28	14R-32L	6500

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04L:	TORA-7500	TODA-7500	ASDA-7500	LDA-7500
RWY 04R:	TORA-8075	TODA-8075	ASDA-8075	LDA-8075
RWY 09L:	TORA-7500	TODA-7500	ASDA-7500	LDA-7500
RWY 09R:	TORA-7967	TODA-7967	ASDA-7967	LDA-7967
RWY 10:	TORA-13000	TODA-13000	ASDA-13000	LDA-12246
RWY 14L:	TORA-10005	TODA-10005	ASDA-10005	LDA-8007
RWY 14R:	TORA-13000	TODA-13000	ASDA-13000	LDA-13000
RWY 22L:	TORA-8075	TODA-8075	ASDA-8075	LDA-8075
RWY 22R:	TORA-7500	TODA-7500	ASDA-7500	LDA-7500
RWY 27L:	TORA-7967	TODA-7967	ASDA-7967	LDA-7967
RWY 27R:	TORA-7500	TODA-7500	ASDA-7500	LDA-7500
RWY 32L:	TORA-13000	TODA-13000	ASDA-13000	LDA-13000
RWY 32R:	TORA-10005	TODA-10005	ASDA-10005	LDA-10005

**ARRESTING GEAR/SYSTEM**

RWY 04R: EMAS 490' X 170'  
 RWY 22L: EMAS 303' X 170'

**AIRPORT REMARKS:** Special Air Traffic Rules—Part 93. Attended continuously. Birds on and in/ov arpt. Pyrotechnics and bird cannons in use for bird control. General aviation ramp and FBO located at the north east ramp vicinity of Rwy 27L approach. PAAEW near various twys. Twr is authorized to conduct arrivals to Rwy 14L and Rwy 14R while conducting simultaneous opposite direction departures off of Rwy 09R and Rwy 28 during IFR weather conditions. Twr is authorized to conduct simultaneous converging instrument approaches to Rwy 14R and Rwy 22R while conducting simultaneous opposite direction departures off of Rwy 09R and Rwy 28 during IFR weather conditions. Twr is authorized to conduct simultaneous opposite direction departures on Rwy 09R and Rwy 28 during IFR weather conditions. ASDE-X surveillance system in use; pilots should operate transponders with mode C on all twys and rwy. Magnetic deviation possible immediately W of Twy M7 and Rwy 22L apch on Twy M. Taxi Into Position and Hold Waiver in effect after dark at the following intersections, Rwy 32L at Twy T-10 and Twy M, Rwy 28 at Twy ZW and Twy ZV, Rwy 14L at Twy U2 and Twy V, Rwy 32R at Twy V and Rwy 10 at

**CONTINUED ON NEXT PAGE**

## CONTINUED FROM PRECEDING PAGE

Twy ZH. These rwys will be used for departures only when exercising the provisions of this waiver. Rwy 04R, Rwy 04L and Rwy 22R touchdown and rollout rwy visual range avbl. Rwy 10, Rwy 28, Rwy 22L, Rwy 09L, Rwy 27R, Rwy 09R, Rwy 27L, Rwy 14L, Rwy 32R, Rwy 14R, and Rwy 32L touchdown, midfield and rollout rwy visual range avbl. Be Alert: That portion of Twy Y between Twy T and the hangar is not visible from Center twr. Be Alert: Twy K-1 outbound or eastbound only, Twy K-2 inbound or westbound only and Twy S5 northbound only exiting rwy. Twy V westbound only between Twy WT and KK; Twy LL northbound only between Rwy 14L-32R and Twy MM. Be Alert: Waivered air traffic separation standards in effect for tfc ldg Rwy 14R and departing Rwy 28, whereby ldg tfc on Rwy 14R will be past the ldg thld as Rwy 28 departures pass through the intersection of the two rwys. B747-400's, B777-300's or A340-600's cannot pass on Twys A and B insufficient wingtip clearance. Twy V rstd to acft less than 117' wingspan or wheelbase less than 30' (design group 4-5-6) between Twy KK and Twy LL. All part 91 and unscheduled parts 125, 133 and 135 charter operators ctc Signature Flight Support at 773-686-7000 regarding new security regulations prior to dep. Arpt ngt time noise abatement procedures are in effect from 0400 to 1300Z; ctc arpt manager 773-686-2255. Rwy 14R-32L possible low level turbulence on AER 14R. Primary run-up location ground run-up enclosure; secondary run-up locations avbl upon req contact city ops 773-686-2255. During periods of cold weather; the apch end of Rwy 32R may not be visible from the ATCT due to steam plume from arpt heating plant. Be Alert: Of duplicate alpha-numeric twy designators and terminal gate designations involving the letters G, H, K, L and M. Acft with wingspan greater than 214'; require 48 hrs PPR—call 773-686-2255. Periodic fire department training at N sector of arpt. Fee req. Deicing fluid not avbl to transient acft. Rotating bcn OTS indef. Yankee Echo gate is manned 24 hours a day. Yankee Tango gate is manned 24 hours a day. Ldg fee. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Major Construction Project Rwy 14R-32L. Intersection Departures During Periods of Darkness. Intersecting Runway Operations, and Simultaneous Opposite Direction Operations. Intersecting Runway Operations. Simultaneous ILS Approaches with One Glide Slope Out of Service. Continuous Power Facilities.

**WEATHER DATA SOURCES:** ASOS (773) 462-0118. **HIWAS** 113.9 ORD. LLWAS. TDWR.

**COMMUNICATIONS:** D-ATIS 135.4 (773) 601-8921 **UNICOM** 122.95

Ⓡ **APP CON** 119.0 (360°-179°) 133.625 128.45 125.7 (180°-359°) 121.15 124.35

**O'HARE TOWER - CENTER** 120.75 126.9 127.925 132.7

**GND CON - CENTER** 121.9 (Inbound) 121.75 (Outbound)

**O'HARE TOWER - NORTH** 128.15

**GND CON - NORTH** 124.125

**CLNC DEL** 121.6

**PRE-TAXI CLNC** 121.6 119.25 **GND METERING** 121.675

Ⓡ **DEP CON** 125.0 (340°-159°) 125.4 (220°-339°) 126.625 (160°-219°)

**AIRSPACE: CLASS B:** See VFR Terminal Area Chart.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ORD.

(L) **VOR/DME** 113.9 ORD Chan 86 N41°59.26' W87°54.29' at fld. 650/2E. **HIWAS.**

NOTE: See Special Notices Section.

VOR portion unusable: 140°-155° byd 15 NM; 100°-140° and 155°-060° byd 35 NM blo 2,500'.

**ILS** 110.75 I-IDN Rwy 32R. Class IA.

**ILS/DME** 110.5 I-JAV Chan 42 Rwy 09R. Class IB. Loc unusable byd 30° left of course and byd 30° right of course.

**ILS** 110.1 I-LQQ Rwy 22L. Class IB. OM OTS indef.

**ILS/DME** 111.1 I-TSL Chan 48 Rwy 28. Class IIIE.

**ILS/DME** 109.75 I-ORD Chan 34(Y) Rwy 14R. Class IIIE.

**ILS/DME** 111.1 I-MED Chan 48 Rwy 10. Class IIIE.

**ILS** 111.3 I-RXZ Rwy 22R. Class IC.

**ILS/DME** 108.95 I-RVG Chan 26(Y) Rwy 32L.

**ILS/DME** 110.5 I-IAC Chan 42 Rwy 27L. Class IIIE.

**ILS** 110.1 I-FJU Rwy 04R. Class IE.

**ILS/DME** 110.9 I-OHA Chan 46 Rwy 14L. Class IIIE.

**ILS** 111.3 I-HNA Rwy 04L. LOC only.

**ILS/DME** 111.75 I-SAJ Chan 54(Y) Rwy 09L. Class IIID

**ILS/DME** 111.75 I-ABU Chan 54(Y) Rwy 27R. Class IIIE. DME unusable byd 10° right of course.

**COMM/NAV/WEATHER REMARKS:** CLASS B frequency 133.5 for VFR acft req tfc advisories or to transition CLASS B South of O'Hare. CLASS B frequency 120.55 for VFR acft req tfc advisories or to transition CLASS B North of O'Hare. If unable to ctc Chicago App/Dep Control 133.1; call 312-686-0681 to obtain IFR CLNC.

• • • • •

**HELIPAD H1:** H200X100 (CONC) PERIMETER LIGHTS

**HELIPORT REMARKS:** H1 apch departure paths are E and W.



**LANSING MUNI** (IGQ) 21 S UTC-6(-5DT) N41°32.10' W87°31.77'

620 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA-1620(1000) NOTAM FILE IGQ

RWY 18-36: H4002X75 (ASPH-PFC) S-24 MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tower.

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

RWY 09-27: H3395X75 (ASPH-PFC) S-12.5 MIRL

RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tree.

RWY 27: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tower.

**AIRPORT REMARKS:** Attended 1300-0100Z†. Birds on and in/ov arpt. All pattern flying in noise sensitive area. 146' Twr 4325' from Rwy 27 665' rgt of extended centerline. Rwy 09 thld was relocated; Dsplcd thld is now twy. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 09-27, REIL Rwy 09, Rwy 18, Rwy 27 and Rwy 36 and twy lgts—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.275 (708) 895-9526. Visibility unreliable.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**CHICAGO HEIGHTS RCO** 122.1R 114.2T (KANKAKEE RADIO).

Ⓡ **CHICAGO APP/DEP CON** 118.4

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

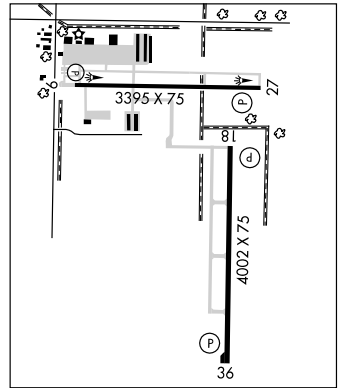
**CHICAGO HEIGHTS (L) VORTAC** 114.2 CGT Chan 89 N41°30.60' W87°34.29' 050° 2.4 NM to fld. 634/2E.

**ILS/DME** 109.15 I-XJX Chan 28(Y) Rwy 36. LOC only.

**CHICAGO**

L-28H, A

IAP



## CHICAGO/AURORA

**AURORA MUNI** (ARR) 38 W UTC-6(-5DT) N41°46.32' W88°28.54'

712 B S4 FUEL 100, JET A1 OX 1, 2, 3, 4 NOTAM FILE ARR

RWY 09-27: H6501X100 (CONC-GRVD) S-30, D-130, ST-165 HIRL

RWY 09: MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Tree.

RWY 27: REIL. VASI(V4L)—GA 3.0° TCH 42'.

RWY 15-33: H5503X100 (CONC-GRVD) D-130, ST-165 HIRL

RWY 15: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Tree.

RWY 33: MALSR. REIL. PAPI(P4L)—GA 3.0° TCH 48'. Tree.

RWY 18-36: H3198X75 (ASPH) S-30 MIRL

RWY 18: REIL. VASI(V4L)—GA 3.0° TCH 30'. Pole.

RWY 36: REIL. VASI(V4L)—GA 3.0° TCH 34'. Tree.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 09	18-36	3450
RWY 15	09-27	3900
RWY 27	15-33	4000

**AIRPORT REMARKS:** Attended Mon-Sat 1100-0600Z†, Sun 1300-0400Z†. Rwy 18-36 sfc several large cracks and vegetative growth. Twy M1 closed indef. When twr clsd HIRL Rwy 15-33 and Rwy 09-27 and MIRL Rwy 18-36 preset low ints: to increase ints and ACTIVATE MALSR Rwy 09, Rwy 33, REIL Rwy 18, Rwy 36, Rwy 15, Rwy 33, and Rwy 27, and twy lgts—CTAF.

**WEATHER DATA SOURCES:** ASOS 125.85 (630) 466-4024. LAWRS.

**COMMUNICATIONS:** CTAF 120.6 ATIS 125.85

UNICOM 123.5 122.95

**JOLIET RCO** 122.1R 112.3T (KANKAKEE RADIO)

**JOLIET RCO** 122.5 (KANKAKEE RADIO)

Ⓡ **CHICAGO APP/DEP CON** 133.5 **CLNC DEL** 121.7 (When twr clsd)

**TOWER** 120.6 (1300-0300Z†) **GND CON** 121.7

**AIRSPACE:** CLASS D svc 1300-0300Z† other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**DU PAGE (L) VOR/DME** 108.4 DPA Chan 21 N41°53.42' W88°21.01' 216° 9.1 NM to fld. 838/2E.

**JOLIET (H) VORTAC** 112.3 JOT Chan 70 N41°32.78' W88°19.10' 330° 15.3 NM to fld. 592/2E.

**ILS** 108.9 I-ARR Rwy 09.

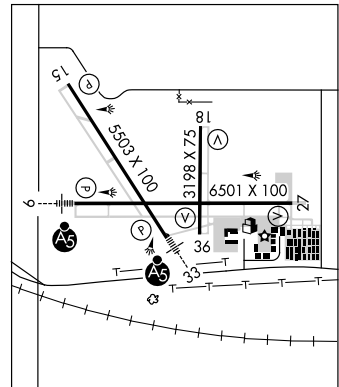
**ILS/DME** 115.15 I-ROF Chan 48(Y) Rwy 33.

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

**CHICAGO**

H-5E, L-28H, A

IAP, AD



**CHICAGO EXECUTIVE** (See CHICAGO/PROSPECT HGTS/WHEELING)

**CHICAGO HEIGHTS** N41°30.60' W87°34.29' NOTAM FILE IKK.

CHICAGO

(L) VORTAC 114.2 CGT Chan 89 050° 2.4 NM to Lansing Muni. 634/2E.

L-28H, A

DME unusable:

050°-070° byd 20 NM blo 4000'

150°-225° byd 20 NM blo 4000'

110°-145° byd 20 NM blo 4000'

225°-280° byd 20 NM blo 4000'

145°-150° byd 20 NM blo 4000'

RCO 122.1R 114.2T (KANKAKEE RADIO)

**CHICAGO/LAKE IN THE HILLS****LAKE IN THE HILLS** (3CK) 38 NW UTC-6(-5DT) N42°12.41' W88°19.38'

CHICAGO

888 B S4 FUEL 100LL, JET A TPA-1888(1000) NOTAM FILE IKK

COPTER

RWY 08-26: H3801X50 (ASPH) MIRL

L-28H, A

RWY 08: REIL. PAPI(P2L)—GA 3.0° TCH 20'. Thld dsplcd 361'. Trees.

IAP

RWY 26: PAPI(P2R)—GA 3.0° TCH 20'. Thld dsplcd 383'. Pole.

**AIRPORT REMARKS:** Attended 1300Z†-dusk. Numerous deer invof Rwy 08-26. Numerous geese invof arpt. Acft with wingspan greater than 56' cannot use parallel twy. Acft with wingspan greater than 45.5' cannot use parallel twy E of Twy Bravo. ACTIVATE REIL Rwy 08. PAPI Rwy 08 and Rwy 26-122.75.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

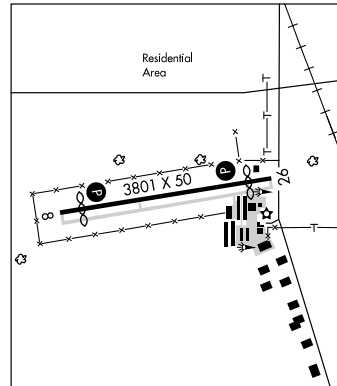
® CHICAGO APP/DEP CON 120.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

NORTHBROOK (H) VORW/DME 113.0 OBK Chan 77 N42°13.29'

W87°57.11' 269° 16.6 NM to fld. 758/2W.

**COMM/NAV/WEATHER REMARKS:** For VFR wx advisory 5 clicks CTAF. Phone 815-444-1729. Wind speed and direction info broadcast on Unicom is inaccurate.

**CHICAGO MEIGS** N41°51.52' W87°36.50'

CHICAGO

RCO 122.15 (KANKAKEE RADIO)

COPTER

L-28H, A

**CHICAGO/PROSPECT HEIGHTS/WHEELING**

**CHICAGO EXECUTIVE** (PWK) 18 NW UTC-6(-5DT) N42°06.86' W87°54.09'

**CHICAGO**

647 B S4 FUEL 100LL, JET A1 + OX 1, 2, 3, 4 TPA—See Remarks LRA NOTAM FILE PWK COPTER  
 RWY 16-34: H5000X150 (ASPH-GRVD) S-72, D-98, ST-124 HIRL H-5E, L-28H, A  
 RWY 16: LDIN (NSTD). REIL. PAPI(P4L)—GA 3.0° TCH 49'. Bldg. IAP, AD  
 RWY 34: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Road.

RWY 12-30: H4415X75 (ASPH-GRVD) S-18, D-28 HIRL

RWY 12: PAPI(P4L)—GA 3.0° TCH 42'. Thld dsplcd 296'. Tree.

RWY 30: PAPI(P4L)—GA 3.0° TCH 43'. Thld dsplcd 433'. Road.  
 Rgt tfc.

RWY 06-24: H3660X50 (ASPH) S-20, D-30 HIRL

RWY 06: PAPI(P4L)—GA 3.0° TCH 33'. Thld dsplcd 354'. Pole.

RWY 24: Thld dsplcd 1251'. Tree. Rgt tfc.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 16	12-30	3623

**AIRPORT REMARKS:** Attended continuously. Migratory birds on and in/ov arpt. Rwy 16 LDIN NSTD due to spacing. ACTIVATE HIRL Rwy 16-34, Rwy 06-24, Rwy 12-30, LDIN lights Rwy 16, REIL Rwy 16 and Rwy 34—CTAF. Twy Z closed indef. Noise abatement procedures: When holding at the Rwy 16 pad align acft at 315°; for Rwy 34 pad align acft at 190° while waiting tkf. While awaiting tkf in the Rwy 16-34 pads, tail acft toward center of arpt for noise abatement. TPA—For piston acft 1647(1000) and for jets 2147(1500). Noise sensitive neighbors N and S of arpt. US customs users fee. For customs clnc 2 hrs minimum advance notice req Mon-Fri 1800-0200Z and not later than 2200Z; Fri for weekend arrivals. Ctc customs at 800-323-7887 extension 333 or 708-537-1200 extension 333.

**WEATHER DATA SOURCES:** ASOS (847) 465-0291.

**COMMUNICATIONS:** CTAF 119.9 ATIS 124.2 UNICOM 122.95

Ⓡ CHICAGO APP/DEP CON 120.55 125.0

EXECUTIVE TOWER 119.9 (Mon-Fri 1200-0400Z, Sat-Sun 1300-0400Z) GND CON 121.7

CLNC DEL 124.7 (By CHICAGO APP CON on 124.7 when twr is clsd.)

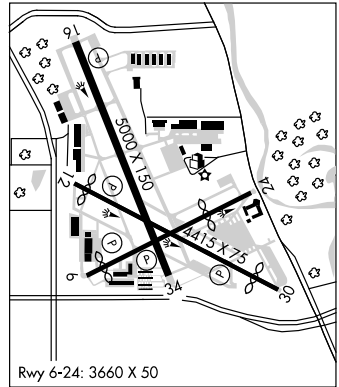
**AIRSPACE:** CLASS D svc Mon-Fri 1200-0400Z; Sat-Sun 1300-0400Z; other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

NORTHBROOK (H) VOR/DME 113.0 OBK Chan 77 N42°13.29' W87°57.11' 163° 6.8 NM to fld. 758/2W.

ILS 111.9 I-PWK Rwy 16.

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



**CHICAGO/ROCKFORD INTL** (RFD) 68 NW UTC-6(-5DT) N42°11.72' W89°05.83'

CHICAGO

742 B S4 FUEL 100LL JET A, A1+ OX 1, 2, 3, 4 LRA ARFF Index—See Remarks  
NOTAM FILE RFDH-50, L-28H  
IAP, AD**RWY 07-25:** H10004X150 (ASPH-CONC-GRVD) S-100, D-190, ST-175,  
DT-360, TRT-550, DDT-850 HIRL CL**RWY 07:** ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 68'. Trees.  
0.3% down.**RWY 25:** REIL. VASI(V4L)—GA 3.0° TCH 37'. Tree.**RWY 01-19:** H8200X150 (ASPH-GRVD) S-75, D-210, ST-175,  
DT-390, TRT-590, DDT-850 HIRL CL**RWY 01:** MALSR. TDZL. Road. 0.6% up.**RWY 19:** REIL. VASI(V6L)—Upper GA 3.25° TCH 90'.  
Lower GA 3.0° TCH 50'. Tree.**LAND AND HOLD SHORT OPERATIONS**

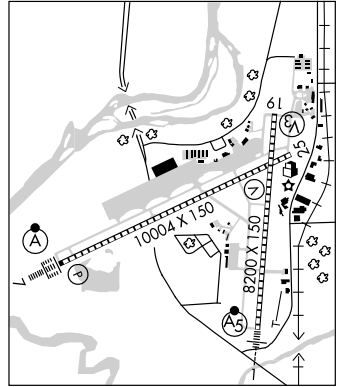
LANDING	HOLD SHORT POINT	DIST AVBL
RWY 01	07-25	6000
RWY 07	01-19	8800

**RUNWAY DECLARED DISTANCE INFORMATION****RWY 01:** TORA-8199 TODA-8199 ASDA-8199 LDA-8199**RWY 19:** TORA-8199 TODA-8199 ASDA-8099 LDA-8099**AIRPORT REMARKS:** Attended continuously. Birds and Deer on and invof

arpt. Rwy 07 RVR touchdown, midpoint and rollout avbl. Class I, ARFF Index C. ARFF Index E equipment avbl with one hr PPR call 815-969-4011. US customs office rqr 2 hr advance notice during business hrs Mon-Fri 1430-2300Z. US Customs user fee arpt. Request for U.S. Customs svc on weekends should be received by 2300Z Fri. Ldg fee. Twy L identifying sign on Twy J NSTD.

**WEATHER DATA SOURCES:** ASOS (815) 399-0627.**COMMUNICATIONS:** ATIS 127.6 UNICOM 122.95**ROCKFORD RCO** 122.65 (KANKAKEE RADIO)Ⓡ **ROCKFORD APP/DEP CON** 126.0 (West) 121.0 (East)**ROCKFORD TOWER** 118.3 **CLNC DEL** 119.25 **GND CON** 121.9TRSA svc ctc **APP CON**.**RADIO AIDS TO NAVIGATION:** NZTAM FILE RFD.**ROCKFORD (L) VOR/DME** 110.8 RFD Chan 45 N42°13.53' W89°11.96' 111° 4.9 NM to fld. 868/1E.**GILMY NDB (LOM)** 275 RF N42°06.86' W89°05.92' 001° 4.9 NM to fld.**ILS/DME** 109.3 I-RFD Chan 30 Rwy 01. Class IE. Class IIE. LOM GILMY NDB.**ILS** 109.55 I-UDY Rwy 07. Class IIIE.

ASR

**CHICAGO/ROMEOVILLE****LEWIS UNIVERSITY** (LOT) 20 SW UTC-6(-5DT) N41°36.49' W88°05.77'

CHICAGO

679 B S4 FUEL 100LL, JET A NOTAM FILE LOT

COPTER

**RWY 02-20:** H6500X100 (CONC-GRVD) D-99 MIRL 0.3% up S

H-5E, L-28H, A

**RWY 02:** REIL. PAPI(P4L)—GA 3.0° TCH 35'.

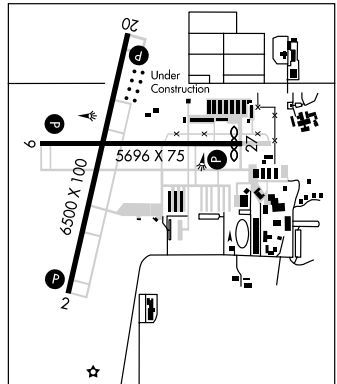
IAP

**RWY 20:** REIL. PAPI(P4L)—GA 3.2° TCH 40'.**RWY 09-27:** H5696X75 (ASPH-PFC) MIRL**RWY 09:** REIL. PAPI(P4L)—GA 3.0° TCH 41'.**RWY 27:** REIL. PAPI(P4L)—GA 3.0° TCH 35'. Thld displcd 196'. Tree.**AIRPORT REMARKS:** Attended 1300-0300Z. Twy A clsd indef. N parking ramp clsd to all multi engine acft. Birds on and invof arpt.

Rotating bcn OTS indef. MIRL Rwy 02-20 and Rwy 09-27 preset on low ints; to increase ints ACTIVATE—CTAF. ACTIVATE REIL Rwy 02, Rwy 20, Rwy 09 and Rwy 27 and PAPI Rwy 02, Rwy 20, Rwy 09 and Rwy 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.525 (815) 588-4802.**COMMUNICATIONS:** CTAF/UNICOM 122.8**JOLIET RCO** 122.5 122.1R 112.3T (KANKAKEE RADIO).Ⓡ **CHICAGO APP/DEP CON** 119.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.**JOLIET (H) VORTAC** 112.3 JOT Chan 70 N41°32.78'

W88°19.10' 068° 10.7 NM to fld. 592/2E.

**ILS/DME** 111.95 I-LOT Chan 56Y Rwy 09. LOC only.**ILS/DME** 108.55 I-JQH Chan 22Y Rwy 02. LOC only.

**CHICAGO/SCHAUMBURG****SCHAUMBURG MUNI HELISTOP**

(4H1) 24 NW UTC-6(-5DT) N42°02.88' W88°03.15'

**CHICAGO  
COPTER**

730 NOTAM FILE IKK

**HELIPAD H1:** H25X25 (CONC)**HELIPAD H1:** LDIN. S-12.5

**HELIPORT REMARKS:** Unattended. Heliport CLOSED 0400Z±-SR. Helipad lgts ops SS-0400Z±. Ingress and egress routes are 100° and 240°-260°. Helipad H1 concrete pad has 25' ASPH area adjacent—all sides. 12' X 25' parking pad lctd 56' NW of landing pad.

**COMMUNICATIONS:** CTAF 122.9**SCHAUMBURG RGNL** (Ø6C) 22 NW UTC-6(-5DT) N41°59.36' W88°06.08'**CHICAGO  
COPTER  
L-28H, A**

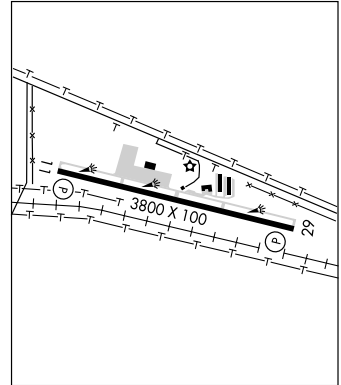
801 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA-1601(800) NOTAM FILE IKK

**RWY 11-29:** H3800X100 (CONC) S-12.5 D-12.5 MIRL**RWY 11:** REIL. PAPI(P2R)—GA 3.25° TCH 44'. Trees.**RWY 29:** REIL. PAPI(P2L)—GA 3.0° TCH 40'. Railroad.

**AIRPORT REMARKS:** Attended May-Sep 1300-0200Z±, Oct-Apr 1300-0100Z±. 100LL self svc fuel avbl after hrs. Water fowl on and invof Rwy 11-29. Rwy 29 preferred rwy in calm and direct crosswinds. Dep acct fly rwy heading to 1400' MSL before starting crosswind turn. For noise abatement procedures contact arpt manager 847-985-4778. Banner towing prohibited within 2 NM radius of arpt. MIRL Rwy 11-29 preset on low ints; to increase ints and ACTIVATE Twy lgts and REILS Rwy 11 and Rwy 29—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE ORD.**CHICAGO-O HARE (L) VOR/DME** 113.9 ORD Chan 86

N41°59.26' W87°54.29' 269° 8.8 NM to fld.

650/2E. **HIWAS.** See Special Notices—Chicago O'Hare VOR/DME.**CHICAGO/TINLEY PARK****TINLEY PARK HELISTOP**

(TF8) 20 SW UTC-6(-5DT) N41°33.55' W87°48.35'

**CHICAGO  
COPTER**

760 NOTAM FILE IKK

**HELIPAD H1:** H40X40 (ASPH)

**HELIPORT REMARKS:** Unattended. 32' unlighted p-lines 95' S; 40' bldg 120' NW; and 33' lgtd poles 293' W; 90' lgtd twr 250' NW of pad. Ingress/egress routes are 090° and 270°. Final apch and tkf area measures 100' by 100'. 60' by 60' helo parking pad lctd 75' N of idg pad.

**COMMUNICATIONS:** CTAF 122.9

**CHICAGO/WAUKEGAN**

**WAUKEGAN RGNL** (UGN) 35 N UTC-6(-5DT) N42°25.33' W87°52.07'

CHICAGO

727 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA-1527(800) LRA NOTAM FILE UGN H-5E, L-28H, A

RWY 05-23: H600X150 (ASPH-PFC) S-95, D-120, ST-152, DT-200 HIRL IAP, AD

RWY 05: VASI(V4L)—GA 3.0° TCH 37'. Road.

RWY 23: MALSR. VASI(V4L)—GA 3.0° TCH 38.4'. Tree. Rgt tfc.

RWY 14-32: H3751X75 (ASPH) S-16, D-23 MIRL 0.4% up NW

RWY 14: VASI(V4L)—GA 3.5° TCH 30'. Thld dspcd 500'. Tree.

RWY 32: Tree.

**AIRPORT REMARKS:** Attended continuously. Birds on and invof arpt.

Noise abatement procedures in effect ctc arpt manager

847-244-0055. No touch and go lds on Rwy 14. When twr clsd MIRL Rwy 14-32 preset low ints; to increase ints and ACTIVATE HIRL Rwy 05-23; MALSR Rwy 23 and twy lgtS—CTAF. A110-02 ctc arpt management office 847-244-0055. US customs user fee arpt. For customs clearance 2 hrs minimum advance notice rqr Mon-Fri during business hrs and by 4 PM Fri for weekend arrivals.

**WEATHER DATA SOURCES:** ASOS (847) 782-0876.

**COMMUNICATIONS:** CTAF 120.05 ATIS 132.4 UNICOM 122.95

RCO 122.55 (KANKAKEE RADIO)

Ⓡ CHICAGO APP/DEP CON 120.55

TOWER 120.05 (1200-0200Z) GND CON 121.65

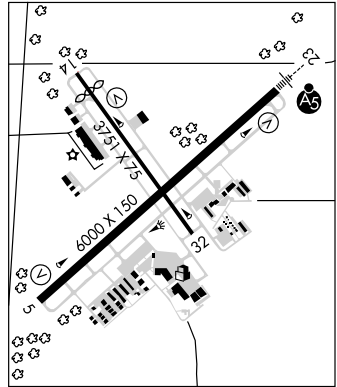
**AIRSPACE:** CLASS D svc 1200-0200Z other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**NORTHBROOK (H) VOR/DME** 113.0 OBK Chan 77 N42°13.29' W87°57.11' 019° 12.6 NM to fld. 758/2W.

**WAUKE NDB (LOM)** 379 UG N42°27.84' W87°48.09' 233° 3.9 NM to fld.

ILS 110.7 I-UGN Rwy 23. LOM WAUKE NDB. LOC only.

**CHICAGO (WEST CHICAGO)**

**DUPAGE** (DPA) 29 W UTC-6(-5DT) N41°54.42' W88°14.89'

CHICAGO

759 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA-1559(800) NOTAM FILE DPA

COPTER

RWY 02L-20R: H7571X100 (CONC-GVRD) S-30, D-45 HIRL CL

H-5E, L-28H, A

RWY 02L: MALSR. TDZL.

IAP, AD

RWY 20R: PAPI(P4L)—GA 3.0° TCH 40'. Tree.

RWY 02R-20L: H5101X100 (CONC-GVRD) S-30, D-45 MIRL

RWY 02R: Bldg. Rgt tfc.

RWY 10-28: H4750X75 (ASPH-PFC) S-30, D-45 HIRL

RWY 10: LDIN. REIL. VASI(V4L)—GA 3.0° TCH 50'. Tree.

RWY 28: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Thld dspcd 749'. Tree.

RWY 15-33: H3399X100 (ASPH) S-30, D-45, DT-100 MIRL

RWY 15: REIL. PAPI(P4R)—GA 3.9° TCH 42'. Tree.

RWY 33: REIL. Thld dspcd 190'. Tree.

**AIRPORT REMARKS:** Attended continuously. Deer, birds and migratory waterfowl on and invof arpt. Acft on short final to Rwy 15 are not visible from tower due to trees. U.S. Customs user fee arpt.

**WEATHER DATA SOURCES:** ASOS (630) 584-2728 LAWRS.

**COMMUNICATIONS:** ATIS 124.8 UNICOM 122.95

RCO 122.3 (KANKAKEE RADIO)

RCO 122.1R 108.4T (KANKAKEE RADIO)

Ⓡ APP/DEP CON 133.5

TOWER 120.9 124.5 GND CON 121.8 CLNC DEL 119.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

(L) **VOR/DME** 108.4 DPA Chan 21 N41°53.42' W88°21.01' 076° 4.7 NM to fld. 838/2E.

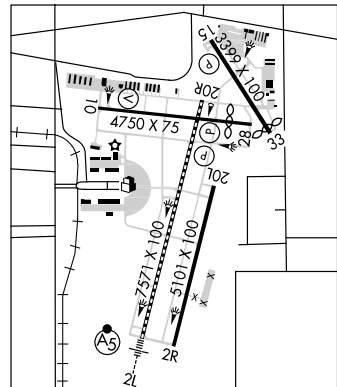
VOR portion unusable 290°-310° byd 35 NM

DME unusable 290°-340° byd 35 NM

ILS 111.7 I-GVK Rwy 02L.

ILS 109.5 I-DPA Rwy 10.

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



**CIVIC MEMORIAL** N38°53.54' W90°03.38' NOTAM FILE ALN.

ST LOUIS

NDB (MHW) 263 CVM at St Louis Rgnl.

A

**COLES CO MEML** (See MATTOON-CHARLESTON)

**COLUMBIA****SACKMAN FLD** (H49) 2 NW UTC-6(-5DT) N38°27.14' W90°14.16'

ST LOUIS

420 NOTAM FILE STL

**RWY 03-21:** 2450X150 (TURF) LIRL (NSTD)**RWY 03:** P-line. **RWY 21:** Trees. Rgt tfc.**AIRPORT REMARKS:** Unattended. Admin bldg can be accessed by ciper lock which has applicable instructions. P-line marked with orange balls. Rwy 03-21 NSTD LIRL due to uneven spacing and non-frangible mounts. For Rwy lgts key 122.9 3 clicks. Lgts go off after 15 min.**COMMUNICATIONS:** CTAF 122.9**COMPTON****BRESSON** (C82) 4 N UTC-6(-5DT) N41°45.75' W89°06.09'

CHICAGO

769 S4 TPA-1569(800) NOTAM FILE IKK

**RWY 18-36:** 2590X184 (TURF) LIRL (NSTD)**RWY 18:** Thld dspclcd 292'. Dike. **RWY 36:** Thld dspclcd 320'. Road.**AIRPORT REMARKS:** Attended 1400Z‡-dusk. Arpt clsd winter months when snow covered except for ski equipped acct. For NSTD LIRL Rwy 18-36 call 815-628-7111/7431. Rwy 18 and Rwy 36 dspclcd thld marked with tires. Rwy 18-36 NSTD LIRL due to non-frangible mountings; spacing and ints.**COMMUNICATIONS:** CTAF/UNICOM 123.0**COTTONWOOD** (See ROCKFORD)**CUSHING FLD LTD** (See NEWARK)**DACY** (See HARVARD)**DANVILLE** N40°17.63' W87°33.43' NOTAM FILE DNV.

CHICAGO

(L) VORTAC 111.0 DNV Chan 47 195° 5.9 NM to Vermilion Rgnl. 700/2E.

H-5E, 4H, L-27D

RCO 122.1R 111.0T (ST LOUIS RADIO)

**DANVILLE****VERMILION RGNL** (DNV) 4 NE UTC-6(-5DT) N40°11.98' W87°35.73'

CHICAGO

697 B S4 FUEL 100LL, JET A NOTAM FILE DNV

H-5E, L-27D

**RWY 03-21:** H6002X100 (ASPH-PFC) S-50, D-75, ST-95 HIRL 0.8% up NE

IAP

**RWY 03:** VASI(V4L)—GA 3.0° TCH 41'. Tree.**RWY 21:** MALSR. PAPI(P4L).**RWY 16-34:** H3999X100 (ASPH-GRVD) S-40, D-50 MIRL  
0.6% up N**RWY 16:** REIL. VASI(V2L)—GA 3.0° TCH 26'. Tree.**RWY 34:** REIL. VASI(V2L)—GA 3.0° TCH 26'. Road.**AIRPORT REMARKS:** Attended 1300-0400Z‡. HIRL Rwy 03-21 preset on low ints, to increase ints and ACTIVATE MALSR Rwy 21. MIRL Rwy 16-34, VASI Rwy 03, Rwy 16 and Rwy 34, PAPI Rwy 21, REIL Rwys 16 and 34—CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.275 (217) 442-4660.**COMMUNICATIONS:** CTAF/UNICOM 122.7.

DANVILLE RCO 122.1R 111.0T (ST LOUIS RADIO)

Ⓡ CHAMPAIGN APP/DEP CON 121.35 (1200-0500Z‡)

CHICAGO CENTER APP/DEP CON 135.75 (0500-1200Z‡)

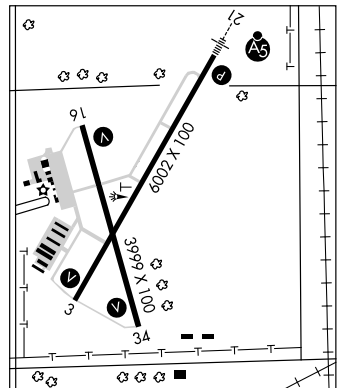
CHAMPAIGN CLNC DEL 121.7

**AIRSPACE:** CLASS E svc 1200-1800Z‡ and 0200-0400Z‡ other times  
CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DNV.

DANVILLE (L) VORTAC 111.0 DNV Chan 47 N40°17.63' W87°33.43' 195° 5.9 NM to fld. 700/2E.

JULIP NDB (LOM) 332 DN N40°17.37' W87°31.78' 209° 6.2 NM to fld.

ILS 108.5 I-DNV Rwy 21. LOM JULIP NDB. Unmonitored.



**DECATUR** (DEC) 4 E UTC-6(-5DT) N39°50.02' W88°51.94'

ST LOUIS

682 B FUEL 100LL, JET A OX 2, 4 Class II, ARFF Index A NOTAM FILE DEC

H-5E, L-27C

RWY 06-24: H8496X150 (ASPH-CONC-GRVD) S-75, D-200, ST-175, DT-245 MIRL IAP, AD

RWY 06: MALSRL. Road.

RWY 24: VASI(V4L)—GA 3.0° TCH 41'.

RWY 12-30: H6799X150 (ASPH-CONC-GRVD) S-75, D-200, ST-175, DT-245 MIRL

RWY 12: Tree. RWY 30: PAPI(P4L).

RWY 18-36: H5299X150 (ASPH-GRVD) S-75, D-115, ST-146, DT-180 MIRL

RWY 18: PAPI(P4L)—GA 3.0° TCH 41'. Trees.

RWY 36: REIL. VASI(V4L)—GA 3.0° TCH 42'. Pole.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 06	12-30	4800
RWY 12	06-24	4450
RWY 18	06-24	4450
RWY 24	12-30	3000
RWY 24	18-36	8000
RWY 30	18-36	5050
RWY 36	12-30	4800

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 06: TORA-8496 TODA-8496 ASDA-8496 LDA-8496

RWY 12: TORA-6799 TODA-6799 ASDA-6799 LDA-6799

RWY 18: TORA-5299 TODA-5299 ASDA-5299 LDA-5299

RWY 24: TORA-8496 TODA-8496 ASDA-8496 LDA-8496

RWY 30: TORA-6799 TODA-6799 ASDA-6799 LDA-6799

RWY 36: TORA-5299 TODA-5299 ASDA-5299 LDA-5299

**AIRPORT REMARKS:** Attended Mon-Fri continuously, Sat-Sun

1300-0330Z†. Birds; deer and other wildlife on and invof arpt.

Snow removal ops in progress winter months; vehicle opr will be monitoring CTAF; acft ldg/dep use CTAF when twr clsd. 24 hr PPR for unscheduled air carrier ops with more than 30 passenger seats, call arpt manager 217-428-2423 or 217-428-8836. PPR for AARF index B call arpt manager. Rwy 12 and Rwy 18 apch ends are closely aligned. Rwy 06 and Rwy 36 apch ends are closely aligned. Verify correct rwy and compass heading prior to departure. N ramp from Hangar B to Hangar G closed to acft over 12,500 lbs. Glider ops by written approval only; contact arpt manager 217-428-2423. Glider ops allowed on Rwsy 06 and 30 only. No sod ops. Rwy 06 touchdown runway visual range avbl. Rwy 24 midfield rwy visual range avbl. When twr clsd HIRL Rwy 06-24 preset low ints; to increase ints and ACTIVATE MIRL Rwy 12-30 and Rwy 18-36; PAPI Rwy 30, twy lgts and MALSRL Rwy 06—CTAF. When the twr is clsd, be alert for intermittent vehicular tfc in arpt ops areas. For U.S. Customs call 217-425-4803. U.S. Customs user fee arpt.

**WEATHER DATA SOURCES:** ASOS (217) 429-0052. HIWAS 117.2 DEC.**COMMUNICATIONS:** CTAF 118.9 ATIS 126.35 UNICOM 122.95

RCO 122.3 122.1R 117.2T (ST LOUIS RADIO)

Ⓡ CHAMPAIGN APP/DEP CON 132.85 (1200-0500Z‡)

CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z‡)

TOWER 118.9 (1200-0400Z‡) GND CON 121.75

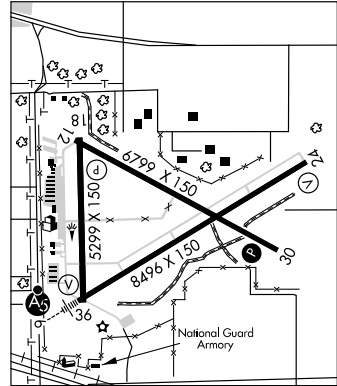
**AIRSPACE:** CLASS D svc 1200-0400Z‡ other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEC.

(H) VORTAC 117.2 DEC Chan 119 N39°44.25' W88°51.38' 353° 5.8 NM to fld. 700/3E. HIWAS.

ELWIN NDB (LOM) 275 DE N39°47.43' W88°57.23' 058° 4.9 NM to fld.

ILS/DME 110.9 I-DEC Chan 46 Rwy 06. Class 1E. LOM ELWIN NDB. Unmonitored when twr clsd.

LOC BC unusable byd 15 NM.

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



**DE KALB TAYLOR MUNI** (DKB) 2 E UTC-6(-5DT) N41°56.03' W88°42.34'

CHICAGO

914 B S2 FUEL 100LL, JET A1 + TPA—See Remarks NOTAM FILE DKB

H-5E, L-28H

RWY 02-20: H7026X100 (ASPH-GRVD) S-25, D-80 MIRL

IAP

RWY 02: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 55'. Railroad.

RWY 20: REIL. PAPI(P2L)—GA 3.25° TCH 27'. Tree.

RWY 09-27: H4201X75 (ASPH-GRVD) S-25, D-80 MIRL

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 30'. Tree.

RWY 27: REIL. PVASI(PSIL)—GA 3.0° TCH 21'. Tree.

**AIRPORT REMARKS:** Attended Nov-Mar 1330-2300Z†, Apr-Oct 1330-0000Z†. TPA 1914(1000) for piston acft and 2414(1500) for jet acft. MIRL Rwy 02-20 preset low ints, to increase ints and ACTIVATE MIRL Rwy 09-27, PAPI Rwy 09 and PVASI Rwy 27, REIL Rwys 09, 27, 02 and 20 and MALSR Rwy 02—CTAF. PAPI Rwys 02 and 20 operates 24 hrs. MIRL Rwy 09-27 opr dusk-dawn.

**WEATHER DATA SOURCES:** AWOS-3 119.075 (815) 748-2350.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ CHICAGO APP/DEP CON 133.5

GCO 121.725 (CHICAGO-O HARE CLNC)

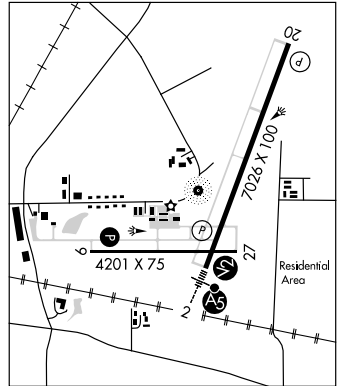
**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

DU PAGE (L) VOR/DME 108.4 DPA Chan 21 N41°53.42'

W88°21.01' 277° 16.1 NM to fld. 838/2E.

NDB (MHW) 209 DKB N41°56.04' W88°42.44' at fld. NOTAM FILE DKB.

ILS/DME 109.95 I-DJK Chan 36Y Rwy 02. Class IT. LOC only.

**COMM/NAV/WEATHER REMARKS:** GCO OTS indef.**DIXON MUNI—CHARLES R. WALGREEN FLD** (C73) 1 E UTC-6(-5DT) N41°50.02' W89°26.77'

CHICAGO

785 B S4 FUEL 100LL, JET A TPA—1585(800) NOTAM FILE IKK

L-28H

RWY 08-26: H3899X75 (ASPH) S-12 MIRL

IAP

RWY 08: REIL. Tree.

RWY 26: PAPI(P4L)—GA 3.0° TCH 20'. Pole.

RWY 12-30: H2803X75 (ASPH) S-12 MIRL 0.3% up E

RWY 12: Stack. RWY 30: Railroad.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†, Sat 1400-1800Z†. Sun on call. For attendant call 815-667-0161 or 815-440-6557. Self fueling avbl 24 hr. MIRL Rwy 12-30 preset on low ints SS-SR; to increase ints and ACTIVATE MIRL Rwy 08-26, REIL Rwy 08, PAPI Rwy 26—CTAF. Twys have edge reflectors with no lgts.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

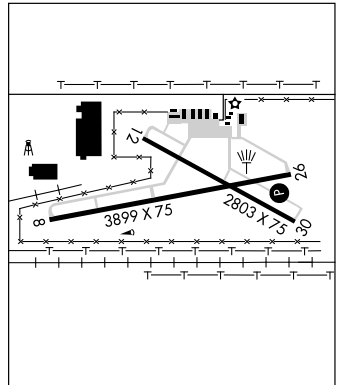
POLO RCO 122.1R 111.2T (KANKAKEE RADIO)

Ⓡ ROCKFORD APP/DEP CON 126.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

POLO (L) VOR/DME 111.2 PLL Chan 49 N41°57.94'

W89°31.45' 153° 8.7 NM to fld. 840/3E. HIWAS.

**DUPAGE** (See CHICAGO/WEST CHICAGO)

**DWIGHT** (DTG) 3 N UTC-6(-5DT) N41°08.00' W88°26.45'  
 632 B FUEL 100LL TPA-1432(800) NOTAM FILE IKK  
**RWY 09-27:** H2364X21 (ASPH-TURF) LIRL (NSTD) 0.3% up W  
**RWY 27:** Thid dsplcd 300'. Building.  
**RWY 18-36:** 2000X92 (TURF) 0.5% up S  
**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun  
 1600-2100Z†. For NSTD LIRL Rwy 09-27 after 0400Z† call  
 815-584-2486; for rotating bcn call 815-584-2486. Rwy 09-27  
 NSTD LIRL; not FAA approved L-800 series. Spacing and ints of  
 lgts vary. Rwy 09-27 21' asph strip centered on 100' turf rwy.  
 Rwy 09-27 NSTD markings due to narrow width.

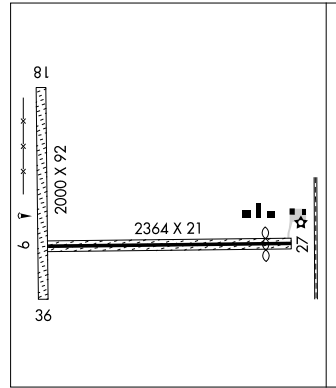
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **CHICAGO CENTER APP/DEP CON** 123.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**PONTIAC (L) VOR/DME** 109.6 PNT Chan 33 N40°49.27'  
 W88°44.01' 032° 23 NM to fld. 679/3E. **HIWAS.**

**CHICAGO**  
 L-27C  
 IAP



**EDGAR CO** (See PARIS)

**EFFINGHAM CO MEM** (1H2) 3 S UTC-6(-5DT) N39°04.23' W88°32.01'  
 587 B S4 FUEL 100LL, JET A TPA-1387(800) NOTAM FILE 1H2  
**RWY 11-29:** H5100X75(CONC) MIRL

**RWY 11:** Tree. **RWY 29:** REIL. Tree.

**RWY 01-19:** H3400X60 (ASPH) S-12 MIRL 0.3% up N

**RWY 01:** PVASI(PSIL)-GA 3.0° TCH 50'. Trees.

**RWY 19:** PVASI(PSIL)-GA 3.0° TCH 50'. Tree.

**AIRPORT REMARKS:** Attended 1400-2300Z†. MIRL Rwy 11-29 preset  
 low ints; to increase ints and ACTIVATE MIRL Rwy 01-19; REIL  
 Rwy 29 and VASI Rwy 01 and 19-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.375 (217) 536-5976.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**BIBLE GROVE RCO** 122.05R 109.0T (ST LOUIS RADIO)

**KANSAS CITY CENTER APP/DEP CON** 124.3

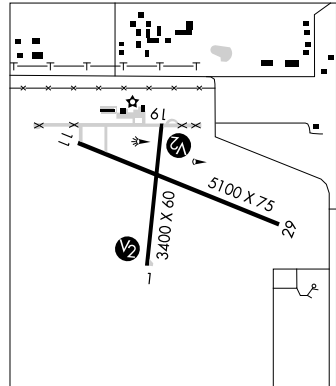
**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

**BIBLE GROVE (L) VORTAC** 109.0 BIB Chan 27 N38°55.22'

W88°28.91' 342° 9.3 NM to fld. 540/3E.

**ILS/DME** 110.75 I-FQE Chan 44Y Rwy 29. LOC only.

**ST LOUIS**  
 H-5E, L-27C  
 IAP



**EGROW** N40°33.62' W88°52.48' NOTAM FILE BMI.

**NDB (LOM)** 334 LH 201°5.3NM to Central Illinois Rgnl Arpt at Bloomington-Normal. Unmonitored when twr clsd.  
 SHUTDOWN.

**ELWIN** N39°47.43' W88°57.23' NOTAM FILE DEC.

**NDB (LOM)** 275 DE 058° 4.9 NM to Decatur. Unmonitored when twr closed.

**ST LOUIS**

**ERIE AIR PARK ULTRALIGHT** (3H5) 1 N UTC-6(-5DT) N41°40.95' W90°04.72'

CHICAGO

600 TPA—1400(800) NOTAM FILE IKK

RWY 18U—36U: 2000X200 (TURF)

RWY 18U: Trees. RWY 36U: Trees.

**AIRPORT REMARKS:** Attended Tue-Sat SR-SS. Rwy 18U-36U thlds marked with L-shaped white gravel.

**COMMUNICATIONS:** CTAF 122.9

**ERMIN** N41°43.14' W87°50.18' NOTAM FILE MDW.

CHICAGO

NDB (MHW/LOM) 332 HK 044° 5.5 NM to Chicago Midway Intl.

A

**FAIRFIELD MUNI** (FWC) 2 W UTC-6(-5DT) N38°22.72' W88°24.76'

ST LOUIS

436 B FUEL 100LL, JET A NOTAM FILE FWC

RWY 09-27: H4000X75 (ASPH) S-12 MIRL 0.6% up W

RWY 09: REIL. PVASI(PSIL)—GA 3.0° TCH 25'. Tree.

RWY 27: PVASI(PSIL)—GA 3.0° TCH 25'. Pole.

RWY 18-36: H1999X60 (ASPH) S-16 MIRL

RWY 18: Road. RWY 36: Road.

**AIRPORT REMARKS:** Attended 1400-2200Z+. For attendant other hrs call 618-842-3145/9101. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 09-27; REIL Rwy 09—123.05.

**WEATHER DATA SOURCES:** AWOS-3 119.425 (618) 847-4709.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

KANSAS CITY CENTER APP/DEP CON 127.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

SAMSVILLE (L) VOR/DME 116.6 SAM Chan 113 N38°29.11'

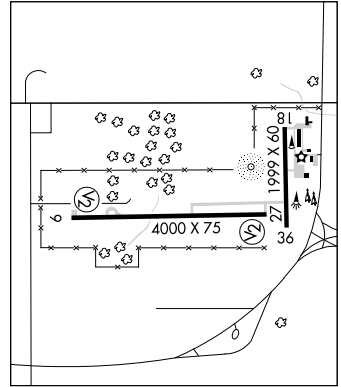
W88°05.15' 245° 16.7 NM to fld. 540/3E.

WAYNE COUNTY NDB (MHW) 257 FWC N38°22.80'

W88°24.59' at fld. NOTAM FILE FWC.

L-27C

IAP



**FLORA MUNI** (FOA) 2 E UTC-6(-5DT) N38°39.90' W88°27.19'

ST LOUIS

473 B S4 FUEL 100LL, JET A NOTAM FILE FOA

H-5E, L-27C

RWY 03-21: H5003X75 (ASPH-PFC) S-30, S-40 MIRL

IAP

RWY 03: PVASI(PSIL)—GA 3.0° TCH 26'. Tree.

RWY 21: REIL. VASI(V2L)—GA 3.0° TCH 20'. Pole.

RWY 15-33: 2715X100 (TURF)

RWY 15: Thld dsplcd 204'. Tree. RWY 33: Thld dsplcd 174'.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2230Z+. Rwy 15-33 soft when wet. Rwy 15-33 thlds and boundary outlined by white ½ tires. Dsplcd thld marked with white rock and is day use only.

MIRL Rwy 03-21 preset on low ints; to increase ints and

ACTIVATE REIL Rwy 21; PVASI Rwy 03; VASI Rwy 21 and twy

lgts—CTAF. PVASI Rwy 03 OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 120.175 (618) 662-8355.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

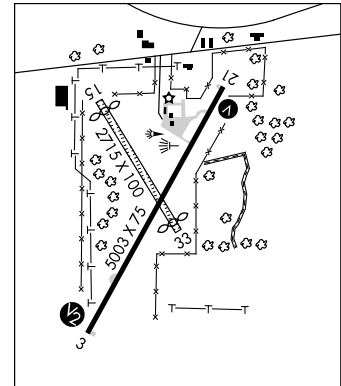
KANSAS CITY CENTER APP/DEP CON 127.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

BIBLE GROVE (L) VORTAC 109.0 BIB Chan 27 N38°55.22'

W88°28.91' 172° 15.4 NM to fld. 540/3E.

ILS/DME 108.55 I-RTT Chan 22Y Rwy 21. LOC only.



**FOSTER FLD** (See APPLE RIVER)

**FRASCA FLD** (See Urbana)

**FREEPORT****ALBERTUS** (FEP) 3 SE UTC-6(-5DT) N42°14.77' W89°34.92'

859 B S4 FUEL 100LL, JET A TPA—See Remarks NOTAM FILE FEP

**RWY 06-24:** H5504X100 (ASPH-GRVD) S-20, D-60 MIRL 0.3% up SW**RWY 06:** REIL. PAPI(P4L). GA 3.0° TCH 40'. Tree.**RWY 24:** MALSR. PAPI(P4L). GA 3.0° TCH 40'.**RWY 18-36:** 2496X150 (TURF)**RWY 18:** Road. **RWY 36:** Tree.**RWY 13-31:** 2285X150 (TURF)**RWY 13:** Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-0000Z†, Sat 1400-2300Z†. Ultralight and glider activity on and invof arpt. TPA 1659 (800) piston acft, 1259 (400) ultralights. Rwy 18-36 thlds marked with in-ground conc markers. Rwy 13-31 thlds marked with in-ground conc markers. Rwy 06 REIL OTS indef. MIRL Rwy 06-24 and twy lgts preset on low ints SS-SR, to incr inst and ACTIVATE REIL Rwy 06 and MALSR Rwy 24—CTAF. PAPI Rwy 06 and Rwy 24 opr continuously.

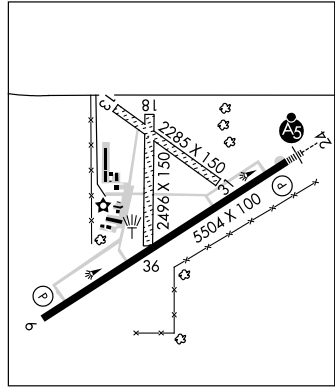
**WEATHER DATA SOURCES:** AWOS-3 120.525 (815) 233-4472.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **ROCKFORD APP/DEP CON 126.0 CLNC DEL 121.85****RADIO AIDS TO NAVIGATION:** NOTAM FILE FEP.**JANESVILLE (L) VOR/DME 114.3 JVL** Chan 90 N42°33.48'

W89°06.32' 226° 28.3 NM to fld. 931/3E.

**ILS/DME 108.3 I-PJE** Chan 20 Rwy 24.**CHICAGO**

H-5D, L-286

IAP

**FREEPORT/DORNINK** (C86) 6 NE UTC-6(-5DT) N42°22.67' W89°33.84'**CHICAGO**

949 TPA—1749(800) NOTAM FILE IKK

**RWY 18-36:** 2600X100 (TURF)**RWY 36:** Thld dsplcd 360'. Road.

**AIRPORT REMARKS:** Attended irregularly. Rwy 36 dsplcd thld marked with red and white ground markers. Rwy mowed 80' wide and marked with cones on sides.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**GALESBURG MUNI** (GBG) 3 SW UTC-6(-5DT) N40°56.28' W90°25.87'**CHICAGO**

764 B S4 FUEL 100LL, JET A OX 2 NOTAM FILE GBG

H-5D, L-27B

**RWY 03-21:** H5791X150 (ASPH-PFC) S-47, D-57, DT-85 HIRL

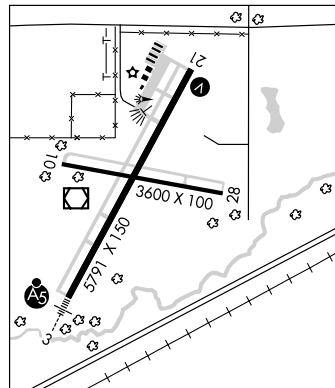
IAP

**RWY 03:** MALSR.**RWY 21:** REIL. VASI(V4L)—GA 3.0° TCH 43.2'. Antenna.**RWY 10-28:** H3600X100 (ASPH) S-30, D-40 MIRL**RWY 10:** Tree **RWY 28:** Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1200-0230Z†, Sat-Sun 1300-0100Z†. Self serve 100LL avbl 24 hrs. HIRL Rwy 03-21 and MIRL Rwy 10-28 preset low ints ngt. To increase ints ngt and ACTIVATE HIRL Rwy 03-21 and MIRL Rwy 10-28 day and MALSR Rwy 03; REIL and VASI Rwy 21—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 109.8 GBG (309) 343-3711.**COMMUNICATIONS:** CTAF/UNICOM 123.0**RCO 122.1R 109.8T** (KANKAKEE RADIO)Ⓡ **QUAD CITY APP/DEP CON 118.2 (1130-0430Z)† CLNC DEL 120.7**Ⓡ **CHICAGO CENTER APP/DEP CON 135.6 (0430-1130Z)†****AIRSPACE:** CLASS E svc 1300-0400Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE GBG.**(T) VOR/DME 109.8 GBG** Chan 35 N40°56.24'

W90°26.07' at fld. 760/3E. AWOS-3.

**ILS 110.7 I-GBG** Rwy 03.**GALT FLD** (See GREENWOOD/WONDER LAKE)**GEN-AIR PARK** (See GENESE0)

**GENESEO****GEN-AIRPARK** (3G8) 2 SE UTC-6(-5DT) N41°26.39' W90°06.60'

CHICAGO

645 TPA-1445 (800) NOTAM FILE IKK

**RWY 09-27:** 2568X120 (TURF) LIRL (NSTD)**RWY 09:** Thld dspld 240'. Road. **RWY 27:** Thld dspld 300'. Road.**AIRPORT REMARKS:** Attended irregularly. Parachute activity on and invof arpt. Rwy 09-27 dspld thld marked with a 10' strip of gravel outward from both sides of rwy. Rwy 09-27 NSTD LIRL; NSTD spacing and ints.**COMMUNICATIONS:** CTAF 122.9**GILMY** N42°06.87' W89°05.92' NOTAM FILE RFD.

CHICAGO

**NDB (LOM)** 275 RF 001° 4.9 NM to Chicago/Rockford Intl.**GOOEY** N38°28.68' W89°44.27' NOTAM FILE BLV.

ST LOUIS

**NDB (LOM)** 385 JD 309° 6.1 NM to Scott AFB/MidAmerica. No NOTAM MP Tue 1200-1600Z†.**GRANDPAS' FARM MENDOTA** (See MENDOTA)**GRAYSLAKE****CAMPBELL** (C81) 2 SW UTC-6(-5DT) N42°19.48' W88°04.45'

CHICAGO

788 B S4 FUEL 100LL TPA-1588(800) NOTAM FILE IKK

COPTER

**RWY 06-24:** 3573X40 (ASPH-TURF)

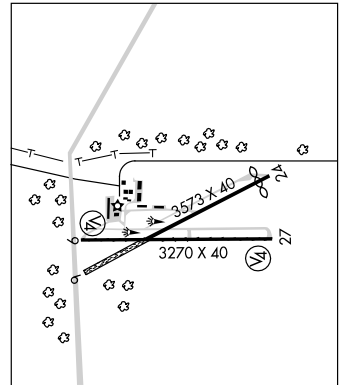
L-28H, A

**RWY 06:** Trees. **RWY 24:** Thld dspld 301'. Tree.

IAP

**RWY 09-27:** H3270X40 (ASPH) LIRL (NSTD) 0.3% up E**RWY 09:** TRCV(TRIL)—GA 4.0°. Trees.**RWY 27:** TRCV(TRIL)—GA 4.0°. Tree.**AIRPORT REMARKS:** Attended Mon-Fri 1330-2300Z†, Sat-Sun 1330-0000Z†. Be alert: model acct flying ½ mile SE of Rwy 27 thld. No touch and go ldg permitted. Unlgt'd power lines 167' AGL ¾ mile S of Rwy 09-27. Rwy 06-24 pavement has several areas of loose debris, cracks and depressions. Rwy 09-27 parallel twy poor, loose debris, cracks and depressions. Rwy edges drop off in excess of 2 inches. Rwy 24 NSTD dspld thld white stripe marking only. Rwy 06-24 SW 1000' portion turf-grvl. Rwy 09-27 NSTD LIRL; spacing and lgt ints varies.**COMMUNICATIONS:** CTAF/UNICOM 122.7

® CHICAGO APP/DEP CON 120.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.**NORTHBROOK (H) VORW/DME** 113.0 OBK Chan 77 N42°13.29' W87°57.11' 321° 8.2 NM to fld. 758/2W.**GREATER BEARDSTOWN** (See BEARDSTOWN)**GREATER KANKAKEE** (See KANKAKEE)**GREATER PEORIA RGNL** (See PEORIA)

**GREENVILLE** (GRE) 3 S UTC-6(-5DT) N38°50.17' W89°22.70'

ST LOUIS

541 B S2 FUEL 100LL, JET A TPA-1341(800) NOTAM FILE STL

L-27C

RWY 18-36: H4002X75 (ASPH) S-7.5 MIRL

IAP

RWY 18: REIL. PVASI(PSIL)—GA 3.0° TCH 25'.

RWY 09-27: 3200X250 (TURF)

Rwy 09: Tree RWY 27: Thld dsplcd 600'. Tree.

**AIRPORT REMARKS:** Attended Oct-Mar 1400-2300Z†, Apr-Sep 1230-0000Z†. Parachute Jumping. Intensive powered parachute ops during early morning and late afternoon/evening. Runway 09-27 600' E CLOSED indef. MIRL Rwy 18-36 preset on low ints; to increase ints ACTIVATE—CTAF. Rwy 27 dsplcd thlds marked with 5' vee board painted yellow. Rwy 18 REIL OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

VANDALIA RCO 122.1R 114.3T (ST LOUIS RADIO)

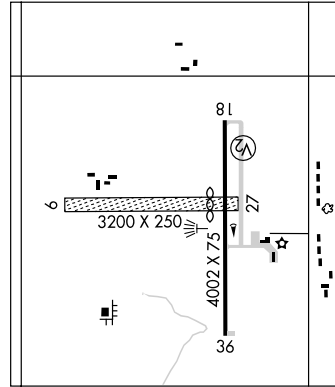
KANSAS CITY CENTER APP/DEP CON 127.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

VANDALIA (L) VORTAC 114.3 VLA Chan 90 N39°05.62'

W89°09.75' 209° 18.5 NM to fld. 604/4E.

**COMM/NAV/WEATHER REMARKS:** Automated UNICOM. 618-664-1939.



## GREENWOOD/WONDER LAKE

**GALT FLD** (10C) 1N UTC-6(-5DT) N42°24.17' W88°22.51'

CHICAGO

875 B S4 FUEL 100LL OX 3, 4 TPA-1675(800) NOTAM FILE IKK

COPTER

RWY 09-27: H2802X36 (ASPH) LIRL (NSTD) 0.9% up W

L-28H, A

RWY 09: Tree. RWY 27: Tree.

IAP

RWY 18-36: 2141X125 (TURF) 0.6% up N

RWY 18: Thld dsplcd 200'. Tree.

RWY 36: Thld dsplcd 270'. Pole.

**AIRPORT REMARKS:** Attended May-Sep 1300-0200Z†, Oct-Apr 1300-2300Z†, Memorial Day to Labor Day 1300-0100Z†. Deer on and invof arpt. Rwy 18-36 CLOSED indef. Rwy 09-27 unmarked. Rwy 09-27 NSTD LIRL with NSTD spacing; 2669' lgtd at night. Rwy 18 and 36 dsplcd thlds marked with A-frames painted black and yellow.

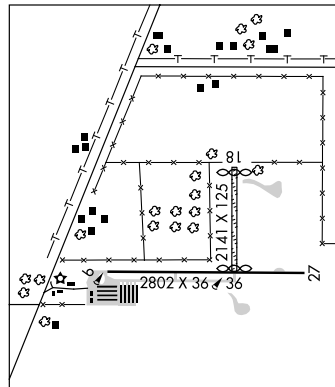
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CHICAGO APP/DEP CON 120.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

NORTHBROOK (H) VORW/DME 113.0 OBK Chan 77 N42°13.29'

W87°57.11' 302° 21.8 NM to fld. 758/2W.



**HARRISBURG****HARRISBURG—RALEIGH** (HSB) 4 N UTC-6(-5DT) N37°48.68' W88°33.02'ST LOUIS  
H-5E, L-16I  
IAF

398 B S2 FUEL 100LL JET A TPA—1198(800) NOTAM FILE HSB

RWY 06-24: H5013X75 (ASPH) S-12 MIRL

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 35'. Tree.

RWY 24: REIL. VASI(V4L)—GA 3.0° TCH 35'. Tree.

RWY 14-32: H2764X75 (ASPH) S-26 MIRL

RWY 14: Pole. RWY 32: Pole.

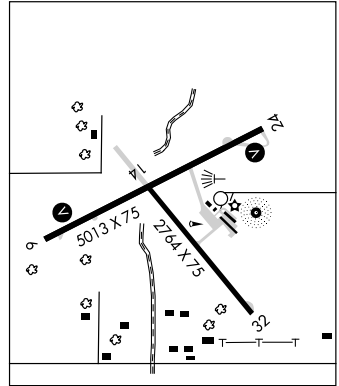
**AIRPORT REMARKS:** Attended 1400-2300Z±. For fuel after hrs call arpt manager at 618-926-0640 (cell) or 618-937-3674. Ultralight activity on and in/ov arpt. MIRL Rwy 06-24 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 14-32, VASI Rwy 06 and Rwy 24, and REIL Rwy 06 and Rwy 24—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 135.925 (618) 253-3010.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ KANSAS CITY CENTER APP/DEP CON 125.3

**RADIO AIDS TO NAVIGATION:** NOTAM FILE HUF.**POCKET CITY (H) VORTACW** 113.3 PXV Chan 80 N37°55.70'

W87°45.74' 257° 38.1 NM to fld. 384/3E. HIWAS.

**NDB (MHW)** 230 HSB N37°48.70' W88°32.72' at fld. NOTAM FILE HSB.**HARTENBOWER HECTARES** (See LOSTANT)**HARVARD****DACY** (ØCØ) 1 SW UTC-6(-5DT) N42°24.15' W88°37.94'

CHICAGO

913 S4 FUEL 100LL TPA—1513(600) NOTAM FILE IKK

RWY 09-27: 3589X105 (TURF)

RWY 09: Thld dsplcd 300'. Tree. RWY 27: Tree.

RWY 14-32: 2633X100 (TURF)

RWY 14: Thld dsplcd 681'. Tree.

RWY 18-36: 2577X120 (TURF) LIRL (NSTD)

RWY 18: Thld dsplcd 305'. Road.

**AIRPORT REMARKS:** Attended 1400-0400Z±. Rwy 18-36 NSTD LIRL; NSTD spacing and non-frangible. Rwy 18-36 2,272' lighted. Rwy 09 dsplcd thld marked with white tires. Rwy 14 dsplcd thld marked with white tires. Rwy 18 dsplcd thld marked with white tires and orange and white barrels.

**COMMUNICATIONS:** CTAF 122.9**HAVANA RGNL** (ØIØ) 5 SE UTC-6(-5DT) N40°13.27' W90°01.37'

CHICAGO

499 B TPA—1499(1000) NOTAM FILE IKK

RWY 09-27: 2235X100 (TURF) LIRL

**AIRPORT REMARKS:** Attended irregularly. 9' crops E of Rwy 27 thld—seasonal.**COMMUNICATIONS:** CTAF 122.9**HIGHLAND—WINET** (HØ7) 3 NE UTC-6(-5DT) N38°46.76' W89°38.43'

ST LOUIS

537 TPA—1337(800) NOTAM FILE STL

RWY 18-36: 2692X200 (TURF)

RWY 36: Thld dsplcd 354'. Road. Rgt tfc.

**AIRPORT REMARKS:** Unattended. Extensive glider ops along W side of rwy; gliders fly opposite pattern to powered acft. Rwy 36 dsplcd thld marked with white tires; also both sides of rwy marked with white tires. To assure firm turf; do not taxi S of above ground fuel tank.

**COMMUNICATIONS:** CTAF 122.9

**HILLSBORO MUNI** (3K4) 2 SE UTC-6(-5DT) N39°08.67' W89°27.42' **ST LOUIS**  
 637 TPA—1437(800) NOTAM FILE STL  
**RWY 18-36:** 4150X200 (TURF) LIRL (NSTD)  
**RWY 18:** P-line. **RWY 36:** Thld dspcd 1050'. Tree.  
**AIRPORT REMARKS:** Unattended. Minimum security prison ¾ mile SW of arpt, maintain TPA on left downwind and base leg of Rwy 36. Rwy 18-36 soft when wet, use center portion. Rwy 18-36 S 1050' rough. This area is not lighted and is marked by dspcd thld, which consists of white rock and 3 red thld lights on each side of rwy. N end of rwy also marked with white rock and three red thld lights on both sides of rwy. For NSTD LIRL Rwy 18-36 call 217-532-2173. Rwy 18-36 NSTD LIRL due to spacing. Rwy 18 obstruction marked with orange balls. NOTE: See Special Notices—Model Rocket Activity.  
**COMMUNICATIONS:** CTAF 122.9

**HINCKLEY** (ØC2) 3 W UTC-6(-5DT) N41°46.25' W88°42.21' **CHICAGO**  
 760 TPA—1560(800) NOTAM FILE IKK  
**RWY 09-27:** 2640X100 (TURF)  
**AIRPORT REMARKS:** Attended irregularly. Parachute Jumping. Extensive parachute jumping and glider ops conducted surface—17,500'. Rwy 09-27 not plowed; use at own risk. Arpt may be unusable under very wet conditions.  
**COMMUNICATIONS:** CTAF 122.9

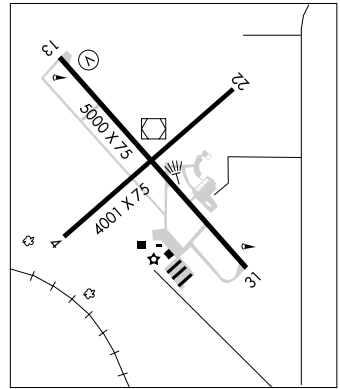
**HOMER** N40°01.59' W87°57.19' NOTAM FILE STL. **CHICAGO**  
**NDB (MHW)** 281 HMJ 302° 13.4 NM to Frasca fld. VFR only. OTS indef.

**HUSKK** N39°46.39' W89°45.59' NOTAM FILE SPI. **ST. LOUIS**  
**NDB (MHW/LDM)** 382 SP 043° 5.7 NM to Abraham Lincoln Capital. **L-27C**

**ILLINOIS VALLEY RGNL—WALTER A DUNCAN FLD** (See PERU)

**INGERSOLL** (See CANTON)

**JACKSONVILLE MUNI** (IJX) 3 N UTC-6(-5DT) N39°46.48' W90°14.30' **ST LOUIS**  
 624 B S4 FUEL 100LL, JET A TPA—1424(800) NOTAM FILE IJX **H-5D, L-27B**  
**RWY 13-31:** H5000X75 (ASPH) S-22, D-28 MIRL **IAP**  
**RWY 13:** REIL. VASI(V4L)—GA 3.0° TCH 36'. Pole.  
**RWY 31:** REIL. Trees.  
**RWY 04-22:** H4001X75 (ASPH) MIRL  
**RWY 04:** Trees. **RWY 22:** Trees.  
**AIRPORT REMARKS:** Attended 1300Z±—dusk. CAUTION: Deer on and invof arpt. ACTIVATE MIRL Rwy 13-31 and Rwy 04-22 and REIL Rwy 13 and Rwy 31 and twy lgts—CTAF. Southeast twy lgts OTS indef.  
**WEATHER DATA SOURCES:** AWOS-3 108.6 IJX (217) 243-6379.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 Ⓡ **SPRINGFIELD APP/DEP CON** 118.45 118.6 (1200-0400Z±)  
 CLNC DEL 118.45  
**KANSAS CITY CENTER APP/DEP CON** 127.275 (0400-1200Z±)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE IJX.  
**(T) VOR/DME** 108.6 IJX Chan 23 N39°46.59' W90°14.32' at fld. 615/2E. **AWOS-3.**



**JOLIET** N41°32.78' W88°19.10' NOTAM FILE IKK. **CHICAGO**  
**(H) VORTAC** 112.3 JOT Chan 70 103°6.7 NM to Joliet Rgnl. 592/2E. **H-5E, L-28H, A**  
 DME unusable byd 35 NM blo 2800'.  
**RCO 122.1R 112.3T** (KANKAKEE RADIO)  
**RCO 122.5** (KANKAKEE RADIO)



**JOLIET RGNL** (JOT) 4 W UTC-6(-5DT) N41°31.06' W88°10.54'

582 B S4 FUEL 100LL, JET A, MOGAS NOTAM FILE JOT

RWY 12-30: H2937X100 (ASPH) S-8 MIRL

RWY 12: REIL. PAPI(P4R)—GA 3.0° TCH 37'. Thld dspld 220'. Canopy.

RWY 30: Thld dspld 80'. Tree.

RWY 04-22: 2746X150 (TURF)

RWY 04: Pole. RWY 22: Tree.

**AIRPORT REMARKS:** Attended Apr-Oct 1300Z±-0300Z±, Nov-Mar 1300-0100Z±. PAEW adjacent to AER 12 indef. MIRL Rwy 12-30 preset on low inst, ACTIVATE higher inst—CTAF. Rwy 04-22 marked with tires painted white; thld marked with white gravel.

**WEATHER DATA SOURCES:** AWOS-3 119.975 (815) 730-9560.

**COMMUNICATIONS:** CTAF/JUNICOM 122.7

RCO 122.1R 112.3T (KANKAKEE RADIO)

RCO 122.5 (KANKAKEE RADIO)

Ⓡ CHICAGO APP/DEP CON 119.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

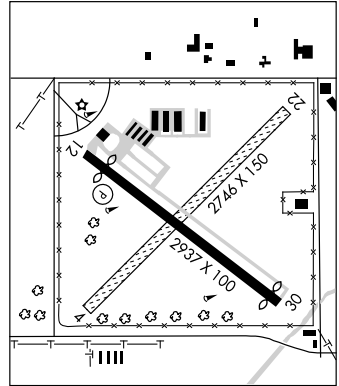
(H) VORTAC 112.3 JOT Chan 70 N41°32.78'

W88°19.10' 103° 6.7 NM to fld. 592/2E.

CHICAGO

L-28H, A

IAP



**JONNY** N37°50.35' W88°58.25' NOTAM FILE MWA.

NDB (LOM) 382 MW 200° 5.4 NM to Williamson Co Rgnl.

ST LOUIS

**JULIP** N40°17.37' W87°31.78' NOTAM FILE DNV.

NDB (LOM) 332 DN 209° 6.2 NM to Vermilion Rgnl.

**KANKAKEE** N41°04.47' W87°50.99' NOTAM FILE IKK.

(L) VOR/DME 111.6 IKK Chan 53 at Greater Kankakee. 625/OE. AWOS-3.

RCO 122.2 122.1R 111.6T (KANKAKEE RADIO)

CHICAGO

L-27C

## KANKAKEE

**GREATER KANKAKEE** (IKK) 3 S UTC-6(-5DT) N41°04.28' W87°50.78'

630 B S4 FUEL 100LL, JET A TPA-1430(800) NOTAM FILE IKK

RWY 04-22: H5979X100 (ASPH-PFC) S-60, D-95 HIRL

RWY 04: MALS. PAPI(P4L)—GA 3.0° TCH 49'.

RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 35'.

RWY 16-34: H4399X75 (ASPH) S-30, D-40 MIRL

RWY 16: PAPI(P4L)—GA 3.0° TCH 35'. Road.

RWY 34: PAPI(P4L)—GA 3.0° TCH 35'. Road.

**AIRPORT REMARKS:** Attended Apr-Oct 1300-0300Z±, Nov-Mar 1300-0100Z±. Ultralight activity in grass area W of Rwy 04-22. For ultralight ops PPR, call 815-939-1422. Deer and waterfowl on and invof. HIRL Rwy 04-22 preset on low ints, to increase ints and ACTIVATE MALS. Rwy 04 and MIRL Rwy 16-34 and REIL Rwy 04 and Rwy 22—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 111.6 IKK (815) 939-4044.

**COMMUNICATIONS:** CTAF/JUNICOM 123.0

KANKAKEE FSS (IKK) on arpt.

KANKAKEE RCO 122.2 122.1R 111.6T (KANKAKEE RADIO)

Ⓡ CHICAGO CENTER APP/DEP CON 132.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

PEOTONE (L) VORTAC 113.2 EON Chan 79 N41°16.18'

W87°47.46' 190° 12.2 NM to fld. 689/2E.

KANKAKEE (L) VOR/DME 111.6 IKK Chan 53 N41°04.47' W87°50.99' at fld. 625/OE. AWOS-3.

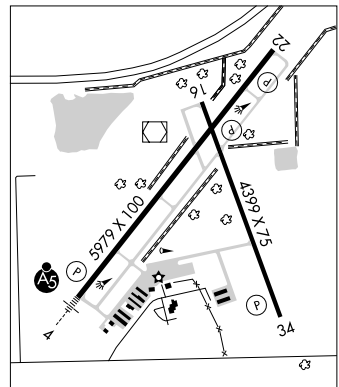
LUKOW NDB (LOM) 272 IK N41°01.07' W87°54.22' 039° 4.1 NM to fld.

ILS 108.7 I-11K Rwy 04 LOM LUKOW NDB.

CHICAGO

H-5E, L-27C

IAP



**KANKAKEE** (3KK) 3 SW UTC-6(-5DT) N41°06.00' W87°55.00'

CHICAGO

625 S4 FUEL 100LL TPA-1425(800) NOTAM FILE IKK

RWY 09-27: 2644X300 (TURF) LIRL (NSTD)

RWY 27: Thld dsplcd 285'. Road.

RWY 18-36: 2564X200 (TURF)

RWY 36: Thld dsplcd 900'. Trees.

**AIRPORT REMARKS:** Attended 1300-0100Z†. Ultralight activity on and inof arpt. Rwy 09-27 NSTD LIRL; variable ints and spacing and non-frangible mountings. Lgts on photocell. Rwy 27 and Rwy 36 dsplcd thlds marked with white rocks.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**KEDZI** N41°44.49' W87°41.38'. NOTAM FILE MDW.

CHICAGO

NDB (MHW/LOM) 248 MX 315° 3.9 NM to Chicago Midway Intl.

A

**KEWANEE MUNI** (EZI) 3 SW UTC-6(-5DT) N41°12.31' W89°57.83'

CHICAGO

858 B S4 FUEL 100LL TPA-See Remarks NOTAM FILE IKK

L-27C

RWY 09-27: H4500X75 (ASPH) S-20 MIRL

IAP

RWY 09: PVASI(P SIL)-GA 3.5° TCH 29'. P-line.

RWY 27: PVASI(P SIL)-GA 3.0° TCH 26'.

RWY 01-19: H3200X60 (ASPH) S-20 MIRL 0.6% up S

RWY 01: P-line.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-0000Z†, Sat-Sun 1400-2300Z†. Ultralight acft on and inof arpt. Hospital heliport 1.2 NM northeast of arpt. PVASI Rwy 09 and Rwy 27 OTS indef. MIRL Rwy 09-27 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 01-19 and twy lgts-CTAF. TPA 1658 (800) piston acft and 1258 (400) ultralight acft.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ QUAD CITY APP/DEP CON 118.2 (1130-0430Z†)

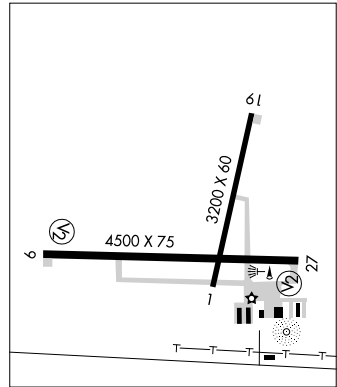
Ⓡ CHICAGO CENTER APP/DEP CON 124.55 (0430-1130Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**BRADFORD (H) VORTAC** 114.7 BDF Chan 94 N41°09.58' W89°35.27' 279° 17.3 NM to fld. 810/OE.

NDB (MHW) 245 EZI N41°12.07' W89°57.56' at fld.

Unmonitored. NDB OTS indef.

**LACON****MARSHALL CO** (C75) 1 E UTC-6(-5DT) N41°01.16' W89°23.19'

CHICAGO

568 B S4 FUEL 100LL, JET A TPA-1568(1000) NOTAM FILE C75

L-27C

RWY 13-31: H3200X75 (ASPH) MIRL 0.9% up SE

IAP

RWY 13: REIL. Tree.

RWY 31: PAPI (P4L)-GA 3.0° TCH 20'. Tree. Rgt tfc.

RWY 18-36: H2200X50 (ASPH) S-4 LIRL 0.3% up N

RWY 18: Road. RWY 36: Tree.

**AIRPORT REMARKS:** Attended 1400Z†-dusk. Rwy 31 PAPI OTS indef. ACTIVATE MIRL Rwy 13-31; REIL Rwy 13 and PAPI Rwy 31-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.425 (309) 246-3089.

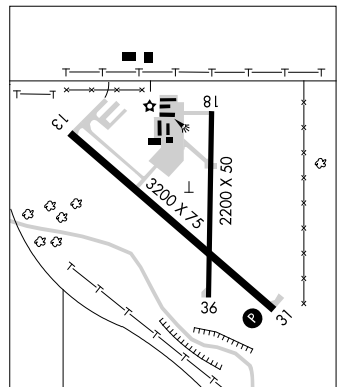
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**BRADFORD RCO** 123.6 122.05R 114.7T (KANKAKEE RADIO)

Ⓡ CHICAGO CENTER APP/DEP CON 124.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**BRADFORD (H) VORTAC** 114.7 BDF Chan 94 N41°09.58' W89°35.27' 133° 12.4 NM to fld. 810/OE.

**LAKE IN THE HILLS** (See CHICAGO/LAKE IN THE HILLS)**LANSING MUNI** (See CHICAGO)

**LAWRENCEVILLE-VINCENNES INTL** (LWV) 3 NE UTC-6(-5DT) N38°45.86' W87°36.33'

ST. LOUIS

430 B S4 FUEL 100LL, JET A TPA—See Remarks NOTAM FILE LWV

H-5E, L-27D

RWY 18-36: H5199X100 (ASPH) S-19, D-28 MIRL

IAP

RWY 18: REIL. PVASI(PSIL). RWY 36: REIL. PAPI(P4L). Tree.

RWY 09-27: H5198X150 (ASPH) S-40, D-50, DT-70 MIRL

RWY 09: REIL. PVASI(PSIL).

RWY 27: ODALS. REIL. PAPI(P4L). Tree.

RWY 04U-22U: 1000X200 (TURF)

RWY 04U: Road. RWY 22U: Pole. Rgt tfc.

**AIRPORT REMARKS:** Attended 1200-0400Z†. Glider activity SR-SS. Rwy 09-27 and Rwy 18-36 have left hand tfc pattern for glider acft. TPA for ultralight tfc using Rwy 04U-22U is 500' maximum. Be alert: ODALS for Rwy 27 are in operation simultaneously with REILS on Rwy 18. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 09-27 and REIL Rws 09, 27, 18 and 36 and ODALS Rwy 27—CTAF. TPA for powered acft using Rwy 09-27 and 18-36 is 1330(900). TPA for ultralight tfc using Rwy 04U-22U is 930(500).

**WEATHER DATA SOURCES:** ASOS 118.0 (618) 943-5252

**COMMUNICATIONS:** CTAF/UNICOM 122.8

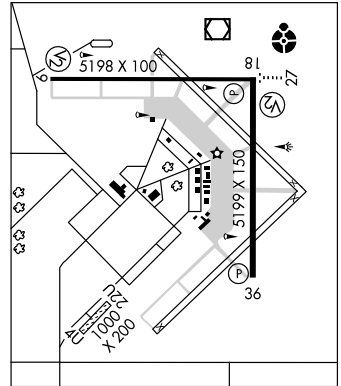
Ⓡ EVANSVILLE APP/DEP CON 125.6 (1200-0500Z‡)

Ⓡ INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE LWV.

(T) VORW/DME 108.8 LWV Chan 25 N38°46.19' W87°36.23' at fld. 430/1W.

DME unusable 350°-030° byd 15 NM blo 3000'.



**LEWIS UNIVERSITY** (See CHICAGO/ROMEDEVILLE)

**LICOL** N39°54.72' W89°36.18' NOTAM FILE SPI.

ST. LOUIS

NDB (MHW/LOM) 375 LQ 221° 5.3 NM to Abraham Lincoln Capital.

## LINCOLN

**LOGAN CO** (AAA) 2 NE UTC-6(-5DT) N40°09.52' W89°20.10'

CHICAGO

597 B S4 FUEL 100 NOTAM FILE AAA

L-27C

RWY 03-21: H3999X70 (ASPH) S-12.5 MIRL

IAP

RWY 03: REIL. PVASI(PSIL). Building.

RWY 21: PVASI(PSIL). Tree.

RWY 14-32: 3003X135 (TURF)

RWY 14: Thld dspcd 307'. Trees. RWY 32: Road.

**AIRPORT REMARKS:** Attended Mon-Sat irregularly. For svc call 217-732-6400. Self serve fuel avbl 24 hrs. Rwy 14-32 PPR to use Dec-Apr and after rain call 217-732-6400. ACTIVATE MIRL Rwy 03-21—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.775 (217) 732-9605.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ SPRINGFIELD APP/DEP CON 118.6 (1200-0400Z‡)

KANSAS CITY CENTER APP/DEP CON 127.275 (0400-1200Z‡)

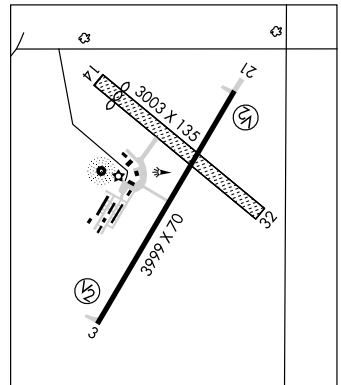
**RADIO AIDS TO NAVIGATION:** NOTAM FILE SPI.

SPINNER (H) VORTACW 112.7 SPI Chan 74 N39°50.38'

W89°40.66' 040° 24.8 NM to fld. 586/1W.

ABRAHAM NDB (MHW) 329 AAA N40°09.61' W89°20.27' at fld.

NOTAM FILE AAA.



**LITCHFIELD MUNI** (3LF) 2 SW UTC-6(-5DT) N39°09.75' W89°40.48'

690 B S4 FUEL 100LL, JET A TPA-1490(800) NOTAM FILE 3LF

RWY 18-36: 4003X75 (CONC) MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 23'. Tank. Rgt tfc.

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Tree.

RWY 09-27: H3901X75 (ASPH) MIRL

RWY 09: REIL. VASI(V2L)—GA 3.45° TCH 25'. Road. Rgt tfc.

RWY 27: REIL. VASI(V2L)—GA 4.0° TCH 57'. Road.

**AIRPORT REMARKS:** Attended 1400-2300Z†. Self svc 100LL fuel avbl 24 hrs. CAUTION: Aerobatic area 1700'-4200' MSL above arpt. MIRL Rwy 18-36 and Twy C preset low ints, to increase ints and ACTIVATE MIRL Rwy 09-27 VASI Rwy 09 and 27, PAPI Rwy 18 and 36, twy lghts and REILS—CTAF. REIL Rwy 09 and Rwy 27 OTS indef. Rwy 27 VASI OTS indef. Rwy 09 VASI OTS indef. NOTE: See Special Notices—Aerobatic Practice Area in Illinois.

**WEATHER DATA SOURCES:** AWOS-3 118.175 (217) 324-4735.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ ST LOUIS APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

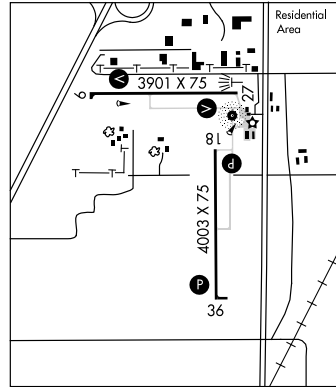
VANDALIA (L) VORTAC 114.3 VLA Chan 90 N39°05.62' W89°09.75' 276° 24.3 NM to fld. 604/4E.

NDB (MHW) 371 LTD N39°09.92' W89°40.53' at fld. SHUTDOWN.

ST. LOUIS

L-27C

IAP

**LOGAN CO** (See LINCOLN)**LOSTANT****HARTENBOWER HECTARES** (2V3) 5 NW UTC-6(-5DT) N41°10.89' W89°08.80'

CHICAGO

733 B FUEL 100LL, MOGAS NOTAM FILE IKK

RWY 18-36: 2413X100 (TURF) LIRL (NSTD)

RWY 18: Crops. RWY 36: Road.

**AIRPORT REMARKS:** Attended on call 815-882-2371/2573. ACTIVATE LIRL Rwy 18-36—CTAF. ACTIVATE rotating bcn—CTAF. Rwy 18-36 NSTD LIRL; lgt ints varies.

**COMMUNICATIONS:** CTAF/UNICOM 122.7.**LUKOW** N41°01.07' W87°54.22' NOTAM FILE IKK.

NDB (LOM) 272 IK 039° 4.1 NM to Greater Kankakee.

**MACOMB MUNI** (MQB) 3 N UTC-6(-5DT) N40°31.21' W90°39.14'

CHICAGO

707 B FUEL 100LL TPA-1507(800) NOTAM FILE MQB

H-5D, L-27B

RWY 09-27: H5101X100 (ASPH) S-18, D-21 HIRL 0.5% up W

IAP

RWY 09: VASI(V2L)—GA 3.0° TCH 25'.

RWY 27: REIL. VASI(V2L)—GA 3.0° TCH 25'.

RWY 18-36: 3719X190 (TURF) 0.3% up N

RWY 18: Tree. RWY 36: Road.

**AIRPORT REMARKS:** Attended 1400-2300Z†. Rwy 18-36 seasonal, Nov 1-May 1 ctc arpt manager 309-833-3324. HIRL Rwy 09-27 preset low ints, to ACTIVATE higher ints and REIL Rwy 27 and twy lghts—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.025 (309) 837-4022.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.15 (KANKAKEE RADIO)

CHICAGO CENTER APP/DEP CON 135.6

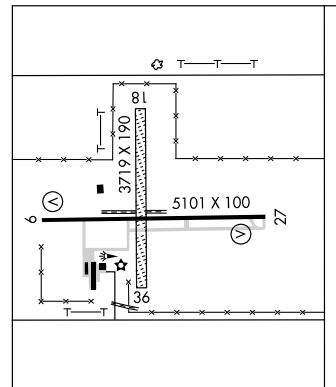
**RADIO AIDS TO NAVIGATION:** NOTAM FILE BRL.

BURLINGTON (L) VORTACW 111.4 BRL Chan 51 N40°43.40' W90°55.55' 129° 17.5 NM to fld. 730/5E. HIWAS

NDB (MHW) 251 JZY N40°31.10' W90°33.63' 270° 4.2 NM to fld. NDB unmonitored 2300-1400Z†.

ILS 110.3 I-MQB Rwy 27. Localizer only.

LOC unmonitored 2300-1400Z†.

**MANITO MITCHELL** (See Manito)

**MANITO****MANITO MITCHELL** (C45) 3 N UTC-6(-5DT) N40°29.36' W89°46.69'

CHICAGO

L-27C

IAP

501 TPA-1301(800) NOTAM FILE IKK

**RWY 04-22:** H2784X40 (ASPH) LIRL (NSTD)**RWY 04:** Thld dsplcd 175'. Tree.**RWY 22:** Thld dsplcd 448'. Pole.**RWY 18-36:** 2188X40 (ASPH-TURF)**RWY 18:** Thld dsplcd 700'. Tree.**RWY 36:** Thld dsplcd 80'. Tree.

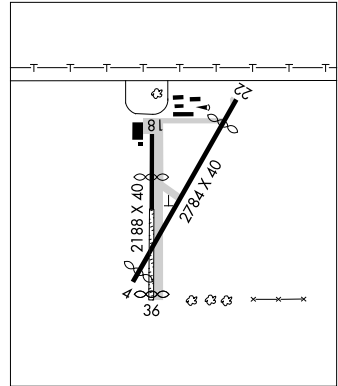
**AIRPORT REMARKS:** Attended irregularly. Rwy 18-36 has 895' X 40' asph strip superimposed on N end. For NSTD LIRL Rwy 04-22 call 309-545-2281 after dark or emergency. Rwy 04-22 NSTD LIRL between dsplcd thlds; fixture spacing and lgt ints varies. All dsplcd thlds marked with white tires. Acft taking off on Rwy 36 cannot see AER 22 when crops grow high.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ PEORIA APP/DEP CON 124.675

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PIA.

PEORIA (L) VORTACW 115.2 PIA Chan 99 N40°40.80'  
W89°47.57' 173° 11.5 NM to fld. 730/4E.

**MARION** N37°45.26' W89°00.70' NOTAM FILE MWA.

ST LOUIS

(L) VOR/DME 110.4 MWA Chan 41 at Williamson Co Rgnl. 468/4E

H-5E, L-16H

DME unusable 030°-140° byd 20 NM blo 3500'.

RCO 122.1R 110.4T (ST LOUIS RADIO).

**MARION****WILLIAMSON CO RGNL** (MWA) 4 W UTC-6(-5DT) N37°45.30' W89°00.67'

ST LOUIS

472 B S4 FUEL 100LL, JET A Class II, ARFF Index A NOTAM FILE MWA

H-5E, L-16H

**RWY 02-20:** H8002X150 (ASPH-PFC) S-80, D-95, ST-121, DT-140 HIRL

IAP, AD

**RWY 02:** REIL. VASI(V4L)—GA 3.5° TCH 34'. Trees.**RWY 20:** MALSR. Tree.**RWY 11-29:** H4997X100 (ASPH-CONC-GRVD) S-45, D-55, DT-100 MIRL 0.3% up SE**RWY 11:** REIL. PAPI(P4L)—GA 3.0° TCH 25'. Tree.**RWY 29:** REIL. PAPI(P4L)—GA 3.0° TCH 25'. Sign.**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
<b>RWY 20</b>	11-29	6650
<b>RWY 29</b>	02-20	4650

**AIRPORT REMARKS:** Attended continuously. Acft svc hrs 1230-0400Z±, other hrs call 618-993-2764. Migratory waterfowl and deer on and invof arpt. First 1200' of Rwy 29 CONC GRVD. 72 hr PPR for air carrier ops with more than 30 passenger seats call arpt manager 618-993-3353. HIRL Rwy 02-20 preset on low ints; to increase ints and ACTIVATE MALSR Rwy 20, MIRL Rwy 11-29, PAPI Rwy 11 and Rwy 29 and REIL Rwy 11 and Rwy 29—CTAF. NOTE: See Special Notices—Aerobatic Practice Areas in Illinois.

**WEATHER DATA SOURCES:** AWOS-3 119.675 (618) 942-8877. SAWRS.**COMMUNICATIONS:** CTAF 126.9 UNICOM 122.95

MARION RCO 122.1R 110.4T (ST LOUIS RADIO)

Ⓡ KANSAS CITY CENTER APP/DEP CON 125.3 CLNC DEL 125.3 (during hrs when twr clsd.)

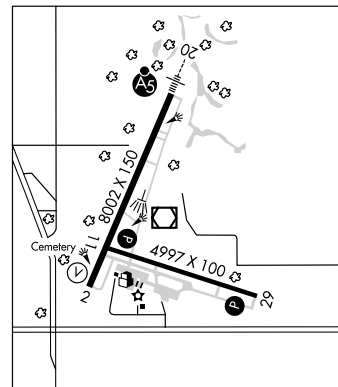
MARION TOWER 126.9 (1300-0100Z±) GND CON 121.7

**AIRSPACE:** CLASS D svc 1300-0100Z± other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MWA.

MARION (L) VOR/DME 110.4 MWA Chan 41 N37°45.26' W89°00.70' at fld. 468/4E.

JONNY NDB (LOM) 382 MW N37°50.35' W88°58.25' 200° 5.4 NM to fld.

ILS 109.3 I-MWA Rwy 20. Class IA. LOM JONNY NDB. MM OTS infed.

**COMM/NAV/WEATHER REMARKS:** Emerg frequency 121.5 Not avbl at twr. SAWRS available on req, call (618) 993-3921.**MARSHALL CO** (See LACON)

**MATTOON** N39°28.68' W88°17.16' NOTAM FILE STL.  
 (L) VOR/DME 109.4 MTO Chan 31 at Coles Co Mem. 720/3E. ASOS.  
 DME unusable 100°-260° byd 30 NM blo 3500'.  
 RCO 123.6R 109.4T (ST LOUIS RADIO)

ST LOUIS  
 L-27C

**MATTOON/CHARLESTON**

**COLES CO MEM** (MTO) 4 E UTC-6(-5DT) N39°28.68' W88°16.76'  
 722 B S4 FUEL 100LL, JET A Class IV, ARFF Index A NOTAM FILE MTO  
 RWY 11-29: H6501X150 (CONC-GRVD) S-100, D-180, ST-175, DT-280 HIRL  
 RWY 11: REIL. Rgt tfc. RWY 29: MALSR. Tree.  
 RWY 06-24: H5799X100 (ASPH-GRVD) S-50, D-70, ST-89,  
 DT-117 MIRL  
 RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 41'. Tree. Rgt tfc.  
 RWY 24: REIL. VASI(V4L)—GA 3.0° TCH 46'.  
 RWY 18-36: 1080X250 (TURF)  
 RWY 18: Rgt tfc.

ST LOUIS  
 H-5E, L-27C  
 IAP

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 06: TORA-5799 TODA-5799 ASDA-5799 LDA-5799  
 RWY 11: TORA-6501 TODA-6501 ASDA-6501 LDA-6501  
 RWY 18: TORA-1080 TODA-1080 ASDA-1080 LDA-1080  
 RWY 24: TORA-5799 TODA-5799 ASDA-5799 LDA-5799  
 RWY 29: TORA-6501 TODA-6501 ASDA-6501 LDA-6501  
 RWY 36: TORA-1080 TODA-1080 ASDA-1080 LDA-1080

**AIRPORT REMARKS:** Attended Apr-Sep 1130Z±-dusk, Oct-Mar 1230-0000Z±. Deer and birds on and invof arpt. 24 hr PPR for unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 217-234-7120. Rwy 18-36 not avbl for air carrier ops with more than 30 passenger seats. Rwy 18 marked with corner stone markers, length and width. HIRL Rwy 11-29 ints preset, to increase ints and ACTIVATE MALSR Rwy 29, MIRL Rwy 06-24, REILS Rws 06, 11 and 24—CTAF.

**WEATHER DATA SOURCES:** ASOS 109.4 MTO (217) 234-8442.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

MATTOON RCO 123.6R 109.4T (ST LOUIS RADIO)

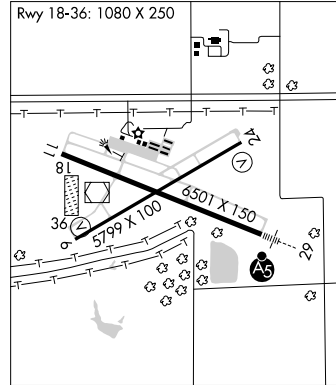
- Ⓡ CHAMPAIGN APP/DEP CON 132.85 (1200-0500Z±)
- CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

MATTOON (L) VOR/DME 109.4 MTO Chan 31 N39°28.68' W88°17.16' at fld. 720/3E. ASOS.

ZEBRE NDB (MHW/LOM) 347 MT N39°26.55' W88°10.41' 293° 5.4 NM to fld.

ILS 111.1 I-MTO Rwy 29. LOM ZEBRE NDB. LOM unusable byd 15 NM.

**MENDOTA**

**GRANDPAS' FARM MENDOTA** (ØC7) 2 SW UTC-6(-5DT) N41°31.32' W89°07.96'

CHICAGO

727 TPA-1527(800) NOTAM FILE IKK

RWY 18-36: 3980X200 (TURF) LIRL (NSTD)

RWY 18: Thld dsplcd 300'. Road. RWY 36: Thld dsplcd 80'. Fence.

**AIRPORT REMARKS:** Attended irregularly. Rwy 18-36 call first for rwy conditions 815-866-9939/815-539-6359. Rwy 18-36 dsplcd thld is 1' high blue barrel halves. ACTIVATE NSTD LIRL Rwy 18-36—CTAF 122.9. Rwy 18-36 NSTD LIRL; fixture spacing and lgt ints varies; non-FAA approved L-800 series.

**COMMUNICATIONS:** CTAF 122.9

**MERCER CO** (See ALEDO)

**METROPOLIS MUNI** (M30) 2 NW UTC-6(-5DT) N37°11.15' W88°45.04'

ST LOUIS

384 B FUEL 100LL TPA-1184(800) NOTAM FILE M30

L-16H

RWY 18-36: H4000X75 (ASPH) S-12.5 MIRL

RWY 18: Tree. RWY 36: Tree.

**AIRPORT REMARKS:** Attended 1500-2300Z±. Self svc fuel avbl 24 hrs with credit card. Avoid factory lctd 4000' SW of Rwy 18-36.

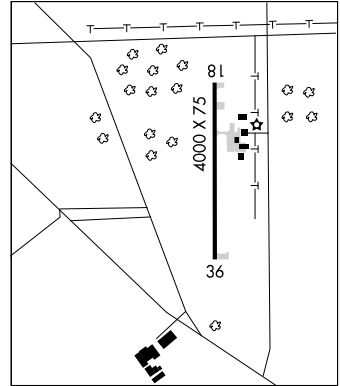
Overnight tie down fee. ACTIVATE MIRL Rwy 18-36 CTAF.

**WEATHER DATA SOURCES:** AWOS-3 124.175 (618) 524-7483.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PAH.

**CUNNINGHAM (L) VORTACW** 113.1 CNG Chan 78 N37°00.52' W88°50.21' 018° 11.4 NM to fld. 480/03E.



**MOLINE** N41°19.26' W90°38.29' NOTAM FILE MLI.

CHICAGO

(L) VORTACW 114.4 MZV Chan 91 033° 9.7 NM to Quad City Intl. 817/5E.

H-5D, L-27B

RCO 122.6 (KANKAKEE RADIO)

**MOLINE****QUAD CITY INTL** (MLI) 3 S UTC-6(-5DT) N41°26.90' W90°30.45'**CHICAGO**

590 B S4 FUEL 100LL, JET A LRA ARFF Index—See Remarks NOTAM FILE MLI

H-5D, L-286

RWY 09-27: H10002X150 (ASPH-CONC-GRVD-PFC) S-100, D-173, ST-175, DT-353 HIRL

IAP, AD

RWY 09: MALSR. Tree.

RWY 27: MALSR. VASI(V4L)—GA 3.0° TCH 52'. Tree.

RWY 13-31: H7301X150 (ASPH-CONC-GRVD-PFC) S-60, D-140, ST-175, DT-200 HIRL

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 48'. Tree.

RWY 31: REIL. VASI(V4L)—GA 3.0° TCH 54'. Thld dsplcd 522'. Tree.

RWY 05-23: H5015X150 (CONC) S-60, D-75, ST-95, DT-120 MIRL

RWY 05: PAPI(P4L)—GA 4.0° TCH 46'. Tree.

RWY 23: VASI(V4L)—GA 3.0° TCH 41'. Road.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 05	09-27	2509
RWY 05	13-31	2509
RWY 09	05-23	5500
RWY 09	13-31	5500
RWY 13	05-23	3100
RWY 13	09-27	3100
RWY 27	05-23	3350
RWY 27	13-31	3350
RWY 31	05-23	2550
RWY 31	09-27	2550

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 09:	TORA-10002	TODA-10002	ASDA-10002	LDA-10002
RWY 13:	TORA-7301	TODA-7301	ASDA-7046	LDA-7046
RWY 27:	TORA-10002	TODA-10002	ASDA-10002	LDA-10002
RWY 31:	TORA-7301	TODA-7301	ASDA-7026	LDA-6504

**AIRPORT REMARKS:** Attended 1100-0400Z. Birds and migratory fowl on and in/ovf arpt. Rwy 05-23 and Rwy 13-31 CLOSED 0430-1130Z. Construction/earthwork AER 05. Snow removal ops in progress winter months, vehicle operators will monitor CTAF. Arpt CLOSED to air carrier acft with more than 30 passenger seats 0530-1230Z except PPR of arpt manager. Class I, ARFF Index B avbl 1100-0600Z or with PPR from arpt manager; ARFF index C available on request; 24 hr PPR call arpt manager 309-757-1739. Twy K restricted to acft 100,000 lbs gross weight or less. Rwy 09 touchdown and rollout rwy visual range avbl. Rwy 27 touchdown and rollout rwy visual range avbl. When twr clsd HIRL Rwy 09-27 preset on med ints. ACTIVATE MALSR Rwy 09 and Rwy 27—CTAF.

**WEATHER DATA SOURCES:** ASOS (309) 799-7096. LLWAS.**COMMUNICATIONS:** CTAF 119.4 ATIS 121.2 UNICOM 122.95

MOLINE RCO 122.6 (KANKAKEE RADIO)

① APP/DEP CON 118.2 (S/SE of active rwy) 125.95 (N/NE of active rwy) (1130-0430Z).

② CHICAGO CENTER APP/DEP CON 118.75 (0430-1130Z)

TOWER 119.4 (1130-0430Z) GND CON 121.9 CLNC DEL 124.05

**AIRSPACE:** CLASS C svc 1130-0430Z ctc APP CON other times CLASS E**RADIO AIDS TO NAVIGATION:** NOTAM FILE MLI.

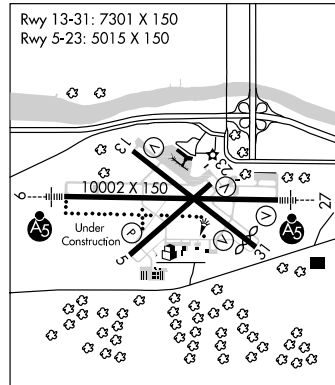
MOLINE (L) VORTAW 114.4 MZV Chan 91 N41°19.26' W90°38.29' 033° 9.7 NM to fld. 817/5E.

MOLLI NDB (LOM) 215 ML N41°26.94' W90°37.11' 089° 5 NM to fld. SHUTDOWN.

ILS/DME 110.5 I-MLI Chan 42 Rwy 09. Class IT. LOM MOLLI NDB. Unmonitored when twr clsd. LOM SHUTDOWN.

ILS/DME 110.5 I-GEQ Chan 42 Rwy 27. Class IB. Unmonitored when twr clsd.

ASR

**QUAD CITY SPB** (IØ4) 2 S UTC-6(-5DT) N41°27.60' W90°29.57'**CHICAGO**

560 S2 FUEL 100LL TPA-960(400)

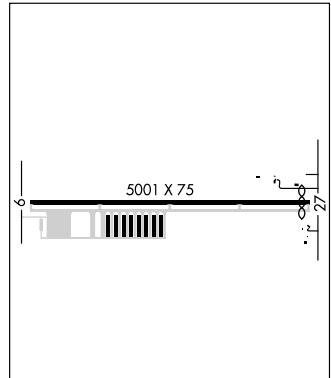
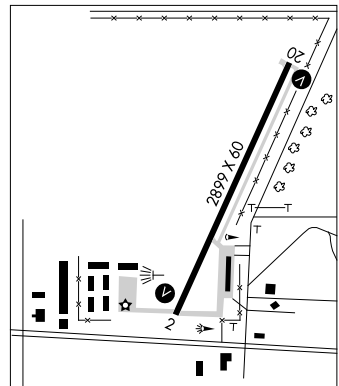
WATERWAY E-W: 10000X300 (WATER)

WATERWAY E: Rgt tfc.

**SEAPLANE REMARKS:** Unattended. Radio or phone approval req by Moline twr. Svc by prior agreement. Waterway E p-line crosses river 300' E of hanger and dock area; highway bridge 300' W of hanger and dock area.**COMMUNICATIONS:** CTAF 122.9**COMM/NAV/WEATHER REMARKS:** Tfc information avbl from Quad City twr on 119.4. Individual ops must be approved by Quad City twr on 119.4 or by telephone.**MOLLI** N41°26.94' W90°37.11' NOTAM FILE MLI.**CHICAGO**

NDB (LOM) 215 ML 089° 5 NM to Quad City Intl. SHUTDOWN.



**MONEE****BULT FIELD** (C56) 3 SE UTC-6(-5DT) N41°22.65' W87°40.79'790 **FUEL** 100LL, JET A TPA—1390(600) NOTAM FILE IKK**RWY 09-27:** H5001X75 (CONC) S-60 LIRL**RWY 09:** Thld dspcd 375'. Tree. **RWY 27:** Thld dspcd 151'.**AIRPORT REMARKS:** Attended 1400-2300Z†. 708-534-8282. Fuel available 24 hrs with credit card.**COMMUNICATIONS:** CTAF/UNICOM 123.0**PEOTONE RCO** 122.05R 113.2T (KANKAKEE RADIO)Ⓡ **CHICAGO CENTER APP/DEP CON** 132.5**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.**PEOTONE (L) VORTAC** 113.2 EON Chan 79 N41°16.18' W87°47.46' 036° 8.2 NM to fld. 689/2E.**CHICAGO**  
H-5E, L-28H, A  
IAP**MONMOUTH MUNI** (C66) 2 N UTC-6(-5DT) N40°55.78' W90°37.87'753 B **FUEL** 100LL, MOGAS TPA—1553(800) NOTAM FILE IKK**RWY 02-20:** H2899X60 (ASPH) S-10 MIRL**RWY 02:** VASI(V2L)—GA 3.0° TCH 40'. Tree.**RWY 20:** VASI(V2L)—GA 3.0° TCH 25'. Tree.**AIRPORT REMARKS:** Attended Tues-Sun 1400-2230Z†. For fuel after hrs call 309-734-5091. Rwy 02-20 pavement poor on E ramp and twy. MIRL Rwy 02-20 preset on low ints; to increase ints and ACTIVATE VASI Rwys 02 and 20—CTAF. VASI Rwys 02 and 20 OTS indef.**COMMUNICATIONS:** CTAF/UNICOM 122.8**GALESBURG RCO** 122.1R 109.8T (KANKAKEE RADIO)Ⓡ **QUAD CITY APP/DEP CON** 118.2 (1130-0430Z†). **CLNC DEL** 120.7Ⓡ **CHICAGO CENTER APP/DEP CON** 135.6 (0430-1130Z†)**RADIO AIDS TO NAVIGATION:** NOTAM FILE GBG.**GALESBURG (T) VOR/DME** 109.8 GBG Chan 35 N40°56.24' W90°26.07' 264° 9 NM to fld. 760/3E.**CHICAGO**  
L-27B  
IAP

**MONTICELLO****PIATT CO** (2K0) 2 SE UTC-6(-5DT) N40°00.32' W88°33.52'

740 B S4 FUEL 100LL, MOGAS TPA-1540(800) NOTAM FILE STL

RWY 18-36: 2797X100 (TURF) MIRL (NSTD) 0.5% up N

RWY 18: Vent pipe. RWY 36: Tree.

**AIRPORT REMARKS:** Attended Sat-Sun irregularly. For fuel call 217-762-9091/5586/7148. Extensive glider ops weekends. Model acft opr 3.25 NM N-NE of arpt. No line of sight between rwy ends. Tkf to the S to avoid noise sensitive area N of arpt. ACTIVATE NSTD MIRL Rwy 18-36-CTAF. Rwy 18-36 NSTD MIRL fixture spacing and lgt ints varies.

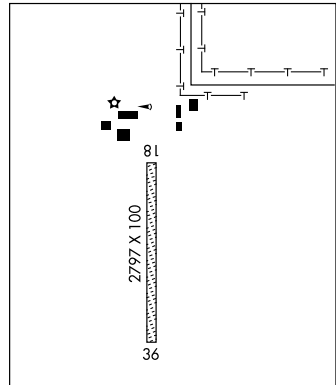
**COMMUNICATIONS:** CTAF 122.9Ⓡ **CHAMPAIGN APP/DEP CON** 132.85 (1200-0500Z‡)Ⓡ **CHICAGO CENTER APP/DEP CON** 125.05 (0500-1200Z‡)**RADIO AIDS TO NAVIGATION:** NOTAM FILE CMI.

**CHAMPAIGN (L) VORTAC** 110.0 CMI Chan 37 N40°02.07'  
W88°16.56' 259° 13.1 NM to fld. 745/3E.

**CHICAGO**

L-27C

IAP

**MORRIS MUNI-JAMES R. WASHBURN FLD** (C09) 4 N UTC-6(-5DT) N41°25.44' W88°25.12'

584 B S4 FUEL 80, 100LL, JET A TPA-1384(800) NOTAM FILE C09

RWY 18-36: H5000X75 (ASPH) S-4, D-125 MIRL 0.4% up N

RWY 18: REIL. Building.

RWY 36: REIL. Antenna.

**AIRPORT REMARKS:** Attended 1400-0200Z‡. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE REIL Rws 18 and 36-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.175 (815) 941-1815.**COMMUNICATIONS:** CTAF/UNICOM 122.8

JOLIET RCO 122.1R 112.3T (KANKAKEE RADIO)

JOLIET RCO 122.5 (KANKAKEE RADIO)

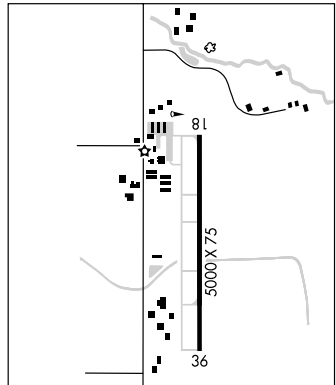
Ⓡ **CHICAGO APP/DEP CON** 119.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

**JOLIET (H) VORTAC** 112.3 JOT Chan 70 N41°32.78'  
W88°19.10' 210° 8.6 NM to fld. 592/2E.

**CHICAGO**

H-5E, L-28H, A

IAP



**MOUNT CARMEL MUNI** (AJG) 12 N UTC-6(-5DT) N38°36.39' W87°43.60'

ST LOUIS

429 B S2 FUEL 100LL NOTAM FILE AJG

L-27D

RWY 13-31: H4500X75 (ASPH) MIRL

IAP

RWY 13: Tree. RWY 31: REIL. PVASI (PSIL)—GA 3.0° TCH 25'.

RWY 04-22: H4000X100 (ASPH) S-11 MIRL

RWY 04: REIL. PVASI(PSIL)—GA 3.0° TCH 29'. Tree.

RWY 22: REIL. PVASI(PSIL)—GA 3.0° TCH 29'. Road.

**AIRPORT REMARKS:** Attended 1400-2300Z†. Agriculture ops invof arpt.

Rwy 04 PSIL unusable byd 8° left of course. MIRL Rwy 04-22 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 13-31; REIL Rwy 04, Rwy 22 and Rwy 31, PVASI Rwy 04, Rwy 22 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 134.9 (618) 948-2184.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ EVANSVILLE APP/DEP CON 125.6 (1200-0500Z‡)

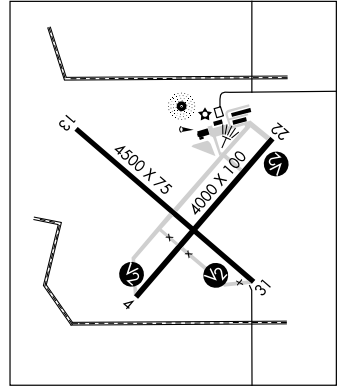
Ⓡ INDIANAPOLIS CENTER APP/DEP CON 128.3 (0500-1200Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE LWV.

LAWRENCEVILLE (T) VORW/DME 108.8 LWV Chan 25 N38°46.19'

W87°36.23' 212° 11.4 NM to fld. 430/1W.

NDB (MHW) 524 AJG N38°36.71' W87°43.53' at fld. NOTAM FILE AJG.

**MOUNT HAWLEY AUXILIARY** (See PEORIA)**MOUNT MORRIS****OGLE CO** (C55) 2 SE UTC-6(-5DT) N42°02.24' W89°23.57'

CHICAGO

929 B TPA—See Remarks NOTAM FILE IKK

RWY 09-27: 2640X200 (TURF) LIRL (NSTD)

RWY 09: Trees.

**AIRPORT REMARKS:** Unattended. ACTIVATE NSTD LIRL Rwy 09-27 and rotating bcn—CTAF. Rwy 09-27 NSTD LIRL due to spacing; ints and non-frangible—orange cones adjacent to lights. TPA 1729 (800) TPA for ultralights 1329 (400). +10' corn may be on rwy ends during growing season.**COMMUNICATIONS:** CTAF 122.9**MOUNT STERLING MUNI** (I63) 2 W UTC-6(-5DT) N39°59.12' W90°48.25'

ST LOUIS

734 B FUEL 100LL, JET A NOTAM FILE STL

H-5D, L-27B

RWY 18-36: H5905X75 (ASPH) MIRL 0.3% up N

IAP

RWY 18: PVASI(PSIL)—GA 3.0° TCH 25'. Pole.

RWY 36: PVASI(PSIL)—GA 3.0° TCH 27'. Tree.

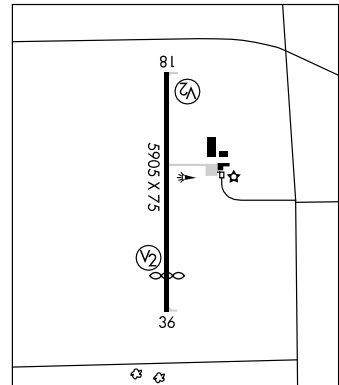
**AIRPORT REMARKS:** Attended irregularly. Fuel now avbl to public-self service. ACTIVATE MIRL Rwy 18-36—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ KANSAS CITY CENTER APP/DEP CON 135.525

**RADIO AIDS TO NAVIGATION:** NOTAM FILE UIN.

QUINCY (H) VORTAC 113.6 UIN Chan 83 N39°50.87'

W91°16.74' 064° 23.4 NM to fld. 715/5E. HIWAS.



**MOUNT VERNON** (MVN) 3 E UTC-6(-5DT) N38°19.40' W88°51.51'

ST LOUIS

480 B S4 FUEL 100LL, JET A OX 2 Class IV, ARFF Index A NOTAM FILE MVN

H-5E, L-27C

RWY 05-23: H6496X150 (ASPH-GRVD) S-50, D-90, ST-95, DT-110 HIRL IAP

RWY 05: VASI(V4L)—GA 3.0° TCH 32.2'. Thld dspcd 774'. Railroad.  
RWY 23: MALSR. Trees.

RWY 15-33: H3146X100 (ASPH-PFC) S-12 MIRL 0.7% up NW

RWY 15: Tree. RWY 33: Railroad.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 05: TORA-6496 TODA-6496 ASDA-6496 LDA-5722

RWY 23: TORA-5572 TODA-5572 ASDA-5572 LDA-5572

**AIRPORT REMARKS:** Attended 1230-0200Z. For svcs after hrs call

618-315-5462. Migratory waterfowl and deer on and invof arpt.

Rwy 15-33 not avbl for air carrier ops with more than 30 passenger seats. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call 618-242-7016. SW General Aviation apron clsd except by PPR from arpt manager ctc 618-242-7016. Rwy 05 also 18' railroad 238' from rwy end 498' right of centerline 2:1 slope. Heliport for private use by Air-Evac Lifeteam only. ACTIVATE MIRL Rwy 15-33 and HIRL Rwy 05-23; MALSR Rwy 23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 113.8 VNN (618) 242-7933**COMMUNICATIONS:** CTAF/UNICOM 123.0

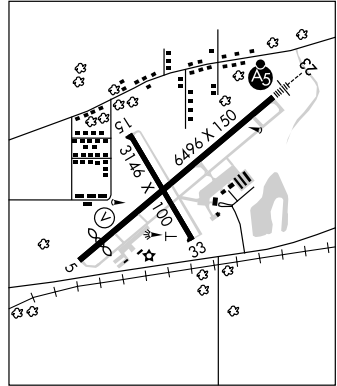
RCO 122.05R 113.8T (ST LOUIS RADIO)

KANSAS CITY CENTER APP/DEP CON 127.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MVN.

(L) VOR/DME 113.8 VNN Chan 85 N38°21.72' W88°48.44' 224° 3.3 NM to fld. 558/2E. AWOS-3.

ILS 111.7 I-MVN Rwy 23. Class IE.

**NEWARK****CUSHING FLD LTD** (ØC8) 2 SW UTC-6(-5DT) N41°31.17' W88°36.34'

CHICAGO

640 FUEL MOGAS TPA-1440(800) NOTAM FILE IKK

RWY 18-36: 2831X180 (TURF) LIRL (NSTD)

RWY 18: Thld dspcd 380'. P-line. RWY 36: Thld dspcd 250'. Fence.

**AIRPORT REMARKS:** Attended irregularly. Ultralight activity on and invof arpt. ACTIVATE LIRL Rwy 18-36—CTAF. Rwy 18-36 NSTD LIRL lgts ints varies; non FAA approved L-800 series. Rwy 18 P-line marked with orange balls. Rwy 18-36 dspcd thlds marked with orange and white painted wood with one red lgt adjacent to each marker.

**COMMUNICATIONS:** CTAF/UNICOM 122.7**NORTHBROOK** N42°13.29' W87°57.11' NOTAM FILE IKK.

CHICAGO

(H) VOR/DME 113.0 OBK Chan 77 163° 6.8 NM to Chicago Executive. 758/2W.

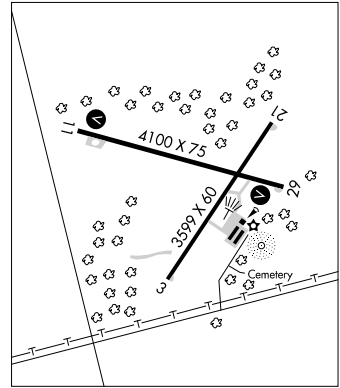
COPTER

DME unusable 215°-330° byd 35 NM blo 3000'.

H-5E, L-28H, A

**OGLE CO** (See MOUNT MORRIS)

**OLNEY—NOBLE** (OLY) 4 W UTC-6(-5DT) N38°43.31' W88°10.59'  
 482 B S4 FUEL 100LL, JET A+ TPA—1282(800) NOTAM FILE OLY  
 RWY 11-29: H4100X75 (ASPH) S-12 MIRL 0.3% up W  
 RWY 11: REIL. VASI(V2L)—GA 3.0° TCH 25'. Road.  
 RWY 29: VASI(V2L)—GA 3.0° TCH 25'. Tree.  
 RWY 03-21: H3599X60 (ASPH) S-18, D-25 MIRL  
 RWY 03: REIL. Tree. RWY 21: Trees.  
**AIRPORT REMARKS:** Attended 1400Z±-2300Z±. For arpt attendance after hrs call 618-393-2967. Fuel 100LL and JET A+ avbl 24 hours with credit card. MIRL Rwy 11-29 preset on low ints—to increase ints and ACTIVATE VASI Rwys 11 and 29, REIL Rwy 11, MIRL Rwy 03-21 and REIL Rwy 03—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 119.275 (618) 393-4416.  
**COMMUNICATIONS:** CTAF/UNICOM 123.0  
 SAMSVILLE RCO 122.1R 116.6T (ST LOUIS RADIO)  
 KANSAS CITY CENTER APP/DEP CON 127.7  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.  
 SAMSVILLE (L) VOR/DME 116.6 SAM Chan 113 N38°29.11' W88°05.15' 340° 14.8 NM to fld. 540/3E.  
 NDB (MHW) 272 OLY N38°43.09' W88°10.37' at fld.  
 NOTAM FILE OLY.  
 ILS/DME 110.5 I-LZW Chan 42 Rwy 11. LOC unusable byd 20 degrees right of course.



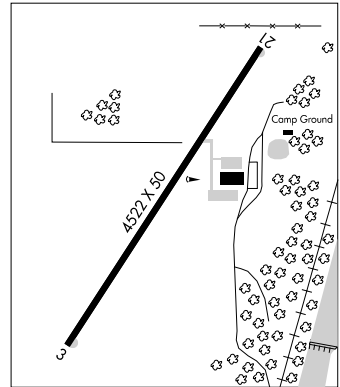
ST LOUIS  
 L-27C  
 IAP

**OTTAWA** N41°21.75' W88°51.26' NOTAM FILE IKK.  
 NDB (MHW) 266 at Skydive Chicago. VFR only. Out of svc indef.

CHICAGO

## OTTAWA

**SKYDIVE CHICAGO** (8N2) 4 NE UTC-6(-5DT) N41°23.99' W88°47.64'  
 616 TPA—1416(800) NOTAM FILE IKK  
 RWY 03-21: H4522X50 (ASPH) S-12.5 LIRL  
**AIRPORT REMARKS:** Attended 1400Z±-dusk. Extensive parachute activity on and in/ov arpt. 268' cellular twr ½ mile WSW of Rwy 03. For noise abatement fly wide pattern Rwy 03. Ldg fee. ACTIVATE LIRL Rwy 03-21—122.725.  
**COMMUNICATIONS:** CTAF 122.725 UNICOM 122.725  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.  
 JULIET (H) VORTAC 112.3 JOT Chan 70 N41°32.78' W88°19.10' 246° at 23.2 NM to fld. 592/2E.



CHICAGO  
 L-28H

**PALESTINE** N39°00.85' W87°38.50' NOTAM FILE RSV.  
 NDB (MHW) 391 PLX at Robinson Muni.

ST LOUIS  
 L-27D

## PALMYRA

**ZELMER MEM AIRPARK INC** (5K1) 1 S UTC-6(-5DT) N39°25.20' W89°59.47'  
 663 FUEL 100LL, MOGAS TPA—1463(800) NOTAM FILE STL  
 RWY 18-36: H2900X32 (ASPH) LIRL  
 RWY 18: Building. RWY 36: Thld dsplcd 307'.  
**AIRPORT REMARKS:** Attended irregularly, for attendant call 217-439-7497. ACTIVATE NSTD LIRL Rwy 18-36—CTAF.  
 Rwy 36 dsplcd thld marked with white line and three amber lgts on each side.  
**COMMUNICATIONS:** CTAF 122.9.

ST LOUIS

**PARIS** N39°41.90' W87°40.45' NOTAM FILE PRG.  
 NDB (MHW) 341 PRG at Edgar Co. Unmonitored 2200-1400Z±.

ST LOUIS  
 L-27D

**PARIS****EDGAR CO** (PRG) 5 N UTC-6(-5DT) N39°42.01' W87°40.18'

654 B FUEL 100LL TPA-1454(800) NOTAM FILE PRG

RWY 09-27: H4502X75 (ASPH) S-12.5 MIRL

RWY 09: PVASI(PSIL)-GA 3.0° TCH 25'. Tree.

RWY 27: REIL. PVASI(PSIL)-GA 3.0° TCH 25'. Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2200Z†, Sat

1400-2000Z†, Sun on call. Rwy 09 VASI and Rwy 27 VASI

unusable byd 5° left/rgt of centerline. MIRL Rwy 09-27 preset on low ints; to increase ints and ACTIVATE PVASI Rwy 09 and Rwy 27—CTAF.

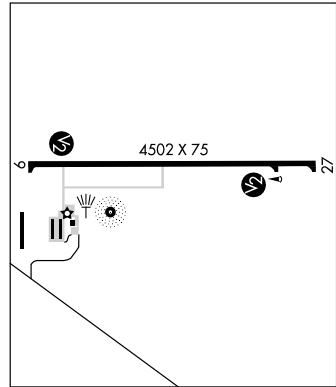
**WEATHER DATA SOURCES:** AWOS-3 124.175 (217) 465-4304.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ HULMAN APP/DEP CON 125.45, 118.3 (1100-0300Z†)

Ⓡ INDIANAPOLIS CENTER APP/DEP CON 132.2 (0300-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE HUF.**TERRE HAUTE (H) VORTACW** 115.3 TTH Chan 100 N39°29.34'W87°14.94' 301° 23.3 NM to fld. 606/2E. **HIWAS.****PARIS NDB (MHW)** 341 PRG N39°41.90' W87°40.45' at fld.

Unmonitored 2200-1400Z†. NOTAM FILE PRG.

**ST LOUIS****L-27D****IAP****PAXTON** (1C1) 2 SW UTC-6(-5DT) N40°26.94' W88°07.67'

779 B S4 FUEL 100LL, MOGAS TPA-1579(800) NOTAM FILE STL

RWY 18-36: H3409X50 (ASPH) S-12.5 MIRL (NSTD) 0.7% up N

RWY 18: REIL. TRCV(TRIL)-GA 3.0°. TCH 50'. Thld dspld 800'. Tree.

RWY 36: TRCV(TRIL)-GA 3.0° TCH 50'. Tree.

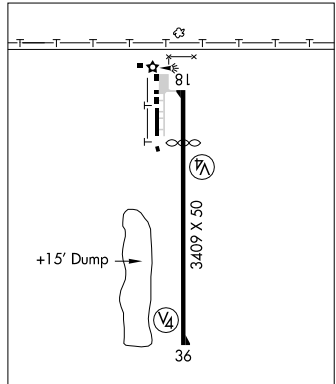
**AIRPORT REMARKS:** Attended irregularly. Maintenance on call phone 217-249-2296 avbl May thru Sep. Rwy 18 dspld thld painted white line across rwy. Rwy 18-36 NSTD MIRL—fixture spacing and lgt ints varies.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CHAMPAIGN APP/DEP CON 121.35 (1200-0500Z†)

Ⓡ CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.**ROBERTS (L) VOR/DME** 116.8 RBS Chan 115 N40°34.90'

W88°09.86' 166° 8.1 NM to fld. 780/2E.

**CHICAGO****L-27C****IAP**

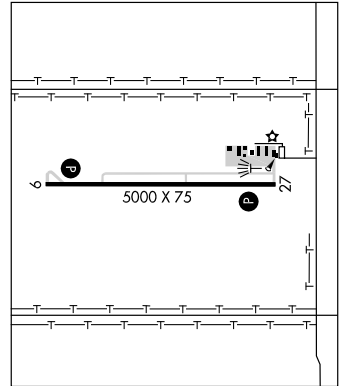
**PEKIN MUNI** (C15) 4 S UTC-6(-5DT) N40°29.29' W89°40.55'  
 530 B S4 FUEL 100LL, JET A TPA-1330(800) NOTAM FILE IKK  
 RWY 09-27: H5000X75 (ASPH) S-15 HIRL  
 RWY 09: PAPI(P2L)—GA 3.0° TCH 20'.  
 RWY 27: PAPI(P2L)—GA 3.0° TCH 25'.  
**AIRPORT REMARKS:** Attended 1400-2300Z. ACTIVATE HIRL Rwy 09-27  
 and PAPIs Rwy 09 and Rwy 27—CTAF.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8

® **PEORIA APP/DEP CON** 124.675

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PIA.

**PEORIA (L) VORTACW** 115.2 PIA Chan 99 N40°40.80'  
 W89°47.57' 151° 12.7 NM to fld. 730/4E.

**CHICAGO**  
 H-5D, L-27C  
 IAP



**PEORIA** N40°40.80' W89°47.57' NOTAM FILE PIA.  
 (L) VORTACW 115.2 PIA Chan 99 098° 4.6 NM to General Downing-Peoria Intl. 730/4E.  
 VOR portion unusable 009°-019° bto 8000' and between 25 and 35 NM.  
 RCO 122.35 (KANKAKEE RADIO)

**CHICAGO**  
 H-5D, L-27C

## PEORIA

**GENERAL DOWNING-PEORIA INTL** (PIA) 4 W UTC-6(-5DT) N40°39.85' W89°41.60'  
 660 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index B NOTAM FILE PIA  
 RWY 13-31: H10104X150 (CONC-GRVD) S-100, D-175, ST-175, DT-310 HIRL  
 RWY 13: MALS. VASI(V4L)—GA 3.0° TCH 59'. Thld displd 500'.  
 Tree.  
 RWY 31: MALS. Tree.  
 RWY 04-22: H8003X150 (ASPH-GRVD) S-100, D-175, ST-175,  
 DT-300 HIRL  
 RWY 04: MALS. VASI(V4L)—GA 3.0° TCH 31'. Tree.  
 RWY 22: VASI(V4L)—GA 3.0° TCH 45'. Tree.  
**RUNWAY DECLARED DISTANCE INFORMATION**  
 RWY 04: TORA-8003 TODA-8003 ASDA-7862 LDA-7862  
 RWY 22: TORA-8003 TODA-8003 ASDA-8003 LDA-8003  
**AIRPORT REMARKS:** Attended continuously. Birds on and invof arprt.  
 Portion of Twy A-5 not visible from twr due to a building.  
**WEATHER DATA SOURCES:** ASOS (309) 697-3611. LLWAS.  
**COMMUNICATIONS:** ATIS 126.1 UNICOM 122.95  
 PEORIA RCO 122.35 (KANKAKEE RADIO)

® **PEORIA APP/DEP CON** 125.8 (305°-125°) 124.675 (126°-304°)

**PEORIA TOWER** 119.1 **GND CON** 121.85

**AIRSPACE:** CLASS C svc continuous ctc APP CON

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PIA.

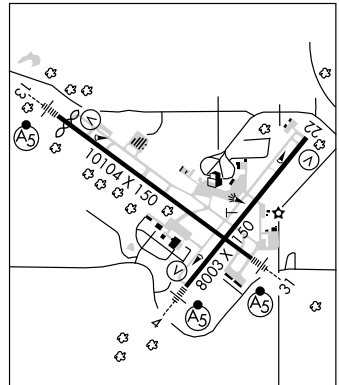
**PEORIA (L) VORTACW** 115.2 PIA Chan 99 N40°40.80' W89°47.57' 098° 4.6 NM to fld. 730/4E.

**TUNGG NDB (MHW/LOM)** 356 PI N40°36.34' W89°35.59' 307° 5.8 NM to fld.

**ILS/DME** 110.55 I-RNX Chan 42(Y) Rwy 04. Class IE.

**ILS** 109.9 I-GZX Rwy 13. Class IB.

**ILS** 109.9 I-PIA Rwy 31. Class IA. LOM TUNGG NDB.



**CHICAGO**  
 H-5D, L-27C  
 IAP, AD

**MOUNT HAWLEY AUXILIARY** (3MY) 7 N UTC-6(-5DT) N40°47.72' W89°36.81'

CHICAGO

786 B S4 FUEL 100LL, JET A OX 2 TPA-1786(1000) NOTAM FILE IKK

L-27C

RWY 18-36: H3600X60 (ASPH) S-4 MIRL 0.3% up N.

IAP

RWY 18: Tree.

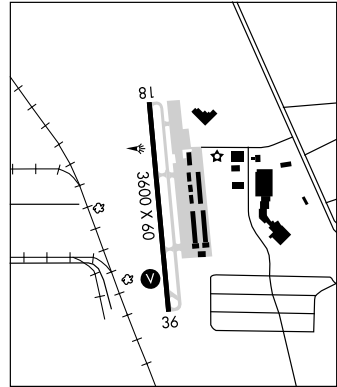
RWY 36: REIL. VASI(V4L)—GA 3.5° TCH 32'. Tree.

AIRPORT REMARKS: Attended dawn-dusk. ACTIVATE MIRL Rwy 18-36, REIL and VASI Rwy 36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

Ⓡ PEORIA APP/DEP CON 125.8 CLNC DEL 121.6

RADIO AIDS TO NAVIGATION: NOTAM FILE PIA.

PEORIA (L) VORTACW 115.2 PIA Chan 99 N40°40.80'  
W89°47.57' 046° 10.7 NM to fld. 730/4E.**RAINBOW HELIPORT** (7B1) 5 NW UTC-6(-5DT) N40°46.52' W89°40.56'

CHICAGO

700 TPA-1400(700) NOTAM FILE IKK

HELIPAD H1: 225X82 (TURF)

HELIPAD H1: Tree.

HELIPORT REMARKS: Attended daily 1400-0000Z. Approach/Departure from 010°-220° clockwise only. Helipad H1 NSTD markings. Helipad H1 marked with 'H' in the grass.

COMMUNICATIONS: CTAF/UNICOM 123.05

**PEOTONE** N41°16.18' W87°47.46' NOTAM FILE IKK.

CHICAGO

(L) VORTAC 113.2 EON Chan 79 190° 12.2 NM to Greater Kankakee. 689/2E.

L-28H

RCO 122.05R 113.2T (KANKAKEE RADIO)

**PERCIVAL SPRINGS** (See WATSON)**PERU****ILLINOIS VALLEY RGNL-WALTER A DUNCAN FLD** (VYS) 1 E UTC-6(-5DT)

CHICAGO

N41°21.11' W89°09.19'

H-5D, L-28H

654 B S4 FUEL 100LL, JET A NOTAM FILE VYS

IAP

RWY 18-36: H6000X100 (ASPH) S-24 MIRL

RWY 18: Pole. RWY 36: ODALS.

AIRPORT REMARKS: Attended Sat-Sun 1400-0400Z, Nov-Feb Mon-Fri 1300-2300Z, Mar-Oct Mon-Fri 1300-0500Z. Southbound jet departures climb straight S to the river (approximately 3 miles) before turning eastbound. MIRL 18-36 preset low ints, to increase ints and ACTIVATE ODALS Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.025 (815) 223-8442.

COMMUNICATIONS: UNICOM/CTAF 123.0

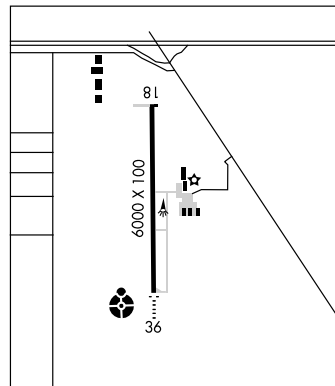
Ⓡ CHICAGO CENTER APP/DEP CON 123.75

RADIO AIDS TO NAVIGATION: NOTAM FILE IKK.

BRADFORD (H) VORTAC 114.7 BDF Chan 94 N41°09.58'  
W89°35.27' 060° 22.8 NM to fld. 810/0E.

ILS/DME 110.35 I-PYU Chan 40(Y) Rwy 36. LOC only.

ILS/DME unmonitored.

**PIATT CO** (See MONTICELLO)



**PINCKNEYVILLE—DU QUOIN** (PJV) 6 SE UTC-6(-5DT) N37°58.67' W89°21.63'

ST LOUIS

400 B FUEL 100LL TPA—1200(800) NOTAM FILE STL

L-16H

RWY 18-36: H4000X60 (ASPH) S-4 MIRL

IAP

RWY 18: PAPI(P4L)—GA 3.0° TCH 20'.

RWY 36: PAPI(P4L)—GA 3.0° TCH 20'. Road.

**AIRPORT REMARKS:** Attended irregularly. For service call acct maintenance, 618-443-2002. Wildlife on and invof arpt. Ultralight activity on and invof arpt. Rotating bcn is shielded and not visible from the W. For service call 618-357-9611/8746 or 618-443-2002. Rwy 18-36 pre-set to low ints, to incr ints and ACTIVATE—CTAF. PAPI Rwy 18 and Rwy 36 opr 24 hrs. NOTE: See Special Notices—Aerobatic Practice Areas in Illinois.

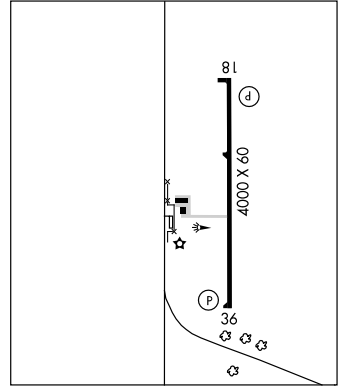
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ KANSAS CITY CENTER APP/DEP CON 125.3

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

CENTRALIA (H) VORTAC 115.0 ENL Chan 97 N38°25.20'  
W89°09.54' 196° 28.2 NM to fld. 546/4E.

HIWAS.



**PITTSFIELD PENSTONE MUNI** (PPQ) 3 NE UTC-6(-5DT) N39°38.33' W90°46.71'

ST LOUIS

710 B FUEL 100LL, JET A TPA—1510(800) NOTAM FILE PPQ

L-27B

RWY 13-31: H4000X60 (ASPH) S-12 MIRL 0.4% up NW

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 32'. Tree.

RWY 31: PAPI(P2L)—GA 3.0° TCH 29'. Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z±. 24 hr. self svc credit card (major) fuel facility. Deer and migratory waterfowl on and invof arpt. MIRL Rwy 13-31 preset on low ints; to increase ints ACTIVATE—CTAF.

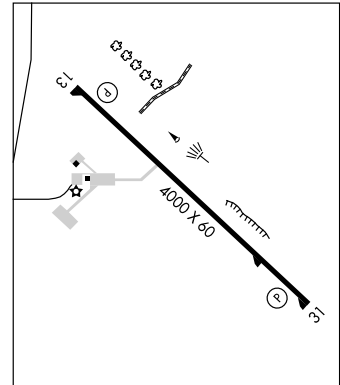
**WEATHER DATA SOURCES:** AWOS-3 118.525 (217) 285-1428.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

KANSAS CITY CENTER APP/DEP CON 135.525

**RADIO AIDS TO NAVIGATION:** NOTAM FILE UIN.

QUINCY (L) VORTAC 113.6 UIN Chan 83 N39°50.87'  
W91°16.74' 113° 26.3 NM to fld. 715/5E. HIWAS.



**POLO** N41°57.94' W89°31.45' NOTAM FILE IKK.

CHICAGO

(L) VOR/DME 111.2 PLL Chan 49 153° 8.7 NM to Dixon Muni—Charles R. Walgreen Fld. 840/3E.

L-28H

HIWAS.

RCO 122.1R 111.2T (KANKAKEE RADIO)

**PONTIAC MUNI** (PNT) 3 N UTC-6(-5DT) N40°55.47' W88°37.44'

CHICAGO

666 B S4 FUEL 100LL, JET A NOTAM FILE PNT  
 RWY 06-24: H5000X75 (ASPH) S-8, D-12.5 MIRL 0.3% up NE

RWY 06: PVASI(PSIL). Pole. RWY 24: PVASI(PSIL).

**AIRPORT REMARKS:** Attended Nov-Mar 1400-2300Z, Apr-Oct  
 1400Z-Dusk. Rwy 06 PVASI OTS indef. ACTIVATE MIRL Rwy  
 06-24 and PVASI Rwy 06 and Rwy 24-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.675 (815) 844-0923.

HIWAS 109.6 PNT.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.1R 109.6T (KANKAKEE RADIO)

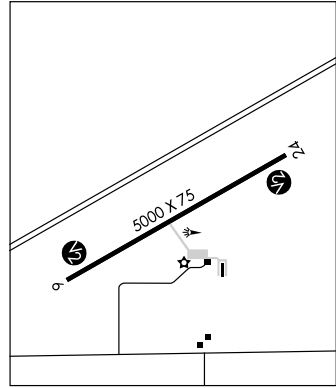
Ⓡ CHICAGO CENTER APP/DEP CON 124.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

(L) VOR/DME 109.6 PNT Chan 33 N40°49.27'

W88°44.01' 036° 8.0 NM to fld. 679/03E. HIWAS.

H-5E, L-27C  
 IAP

**POPLAR GROVE** (C77) 3 S UTC-6(-5DT) N42°19.39' W88°50.18'

CHICAGO

858 B S4 FUEL 100LL, MOGAS TPA-1858(1000) NOTAM FILE IKK

RWY 12-30: H3773X50 (ASPH-AFSC) LIRL (NSTD)

RWY 12: Thld displcd 500'. Tree.

RWY 09-27: 2709X200 (TURF) 0.3% up W

RWY 09: Tree. RWY 27: Tree.

RWY 17-35: 2467X150 (TURF)

RWY 17: Thld displcd 340'. Road. RWY 35: Bldg.

**AIRPORT REMARKS:** Attended SR-SS. Rws 17-35 and 09-27 CLOSED  
 exc ski acft when snow covered. Rwy 12-30 NSTD LIRL due to  
 spacing, ints and non-frangible mountings. Tetrahedron lgts OTS  
 indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

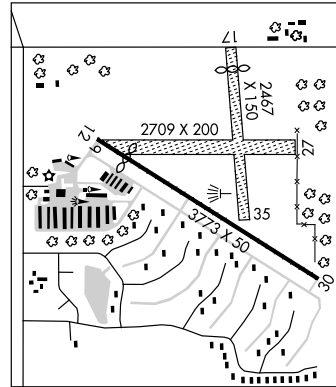
Ⓡ ROCKFORD APP/DEP CON 121.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RFD.

ROCKFORD (L) VOR/DME 110.8 RFD Chan 45 N42°13.53'

W89°11.96' 069° 17.2 NM to fld. 868/1E.

L-28H  
 IAP



**QUAD-CITY** (See MOLINE)

**QUAD-CITY SPB** (See MOLINE)

**QUINCY RGNL—BALDWIN FLD** (UIN) 10 E UTC-6(-5DT) N39°56.58' W91°11.67' **KANSAS CITY**

768 B S4 FUEL 100LL, JET A TPA-1768(1000) Class II, ARFF Index A NOTAM FILE UIN H-5D, L-27B

RWY 04-22: H7098X150 (ASPH-CONC-GRVD) S-60, D-75, ST-95, DT-150 HIRL IAP

RWY 04: MALS.R. Road.

RWY 22: REIL. VASI(V4L)—GA 3.0° TCH 43'.

RWY 18-36: H5400X150 (ASPH-CONC) S-45, D-55,  
DT-100 MIRL

RWY 18: REIL. RWY 36: Road.

RWY 13-31: H5396X150 (ASPH—GRVD) S-75, D-95, ST-121,  
DT-150 MIRL

RWY 13: VASI(V4L)—GA 3.0° TCH 31'. Road.

RWY 31: PAPI(P4R)—GA 3.0° TCH 40'. Pole

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04: TORA-7098 TODA-7098 ASDA-7098 LDA-7098

RWY 13: TORA-5396 TODA-5396 ASDA-5123 LDA-5123

RWY 18: TORA-5400 TODA-5400 ASDA-5400 LDA-5400

RWY 22: TORA-7098 TODA-7098 ASDA-7098 LDA-7098

RWY 31: TORA-5396 TODA-5396 ASDA-5146 LDA-5146

RWY 36: TORA-5400 TODA-5400 ASDA-5400 LDA-5400

**AIRPORT REMARKS:** Attended 1100-0400Z†. For attendant after hrs call 217-885-3353 or 217-224-3755. Migratory waterfowl on and in/ov arpt. Fld conditions are not monitored between the hours of 0400-1030Z†. 48 hrs PPR for unscheduled air carrier ops involving acft with more than 30 passenger seats. Call arpt manager 217-885-3285 or 217-885-3262 during business hrs. Rwy 18-36 spalling with cracks throughout rwy. N 479' of Rwy 18-36 conc. NE 1300' of Rwy 04-22 conc. HIRL Rwy 04-22 preset low ints; to increase ints and ACTIVATE MIRL Rwy 13-31 and Rwy 18-36, MALS.R Rwy 04, VASI Rwy 13 and PAPI Rwy 31—CTAF.

**WEATHER DATA SOURCES:** ASOS 121.425 (217) 885-3319. HIWAS 113.6 UIN.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 122.1R 113.6T (ST LOUIS RADIO) RCO 122.5 (ST LOUIS RADIO)

KANSAS CITY CENTER APP/DEP CON 135.525

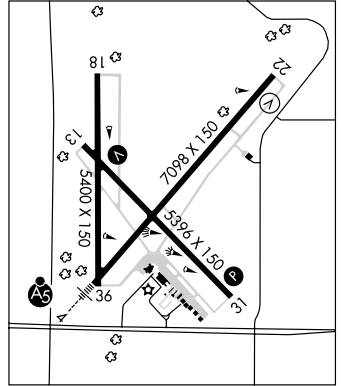
**AIRSPACE:** CLASS E svc operational by NOTAM other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE UIN.

(H) VORTAC 113.6 UIN Chan 83 N39°50.87' W91°16.74' 029° 6.9 NM to fld. 715/5E. HIWAS.

NDB (MHW/LOM) 293 UI N39°53.21' W91°15.22' 037°4.3 NM to fld. Unmonitored.

ILS 110.1 I-UIN Rwy 04. Class IE. LOM QUINCY NDB. ILS unmonitored.



**RAINBOW HELIPORT** (See PEORIA)

**RANTOUL NATIONAL AVIATION CENTER—FRANK ELLIOTT FLD** (TIP) 0 N UTC-6(-5DT)

N40°17.61' W88°08.54'

737 B S4 FUEL 100LL, JET A NOTAM FILE TIP

RWY 09-27: H5000X75 (ASPH) MIRL

RWY 09: PAPI(P4L)—GA 3.0° TCH 40'. Tree. Rgt tfc.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 40'.

RWY 18-36: H4895X75 (ASPH) MIRL

RWY 18: Tree. RWY 36: Tree. Rgt tfc.

**AIRPORT REMARKS:** Attended continuously. For fuel after hrs call 217-892-2121. Parachute Jumping. PAPI Rwy 09 and Rwy 27 opr continuously. MIRL Rwy 09-27 and Rwy 18-36 preset on low ints, to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.025 (217) 892-4999.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

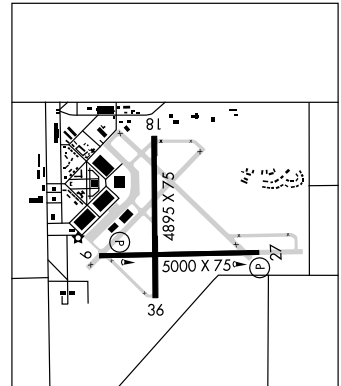
Ⓡ CHAMPAIGN APP/DEP CON 121.35 (1200-0500Z†)

CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CMI.

CHAMPAIGN (L) VORTAC 110.0 CMI Chan 37 N40°02.07'

W88°16.56' 019°16.7 NM to fld. 745/3E.



**ROBERTS** N40°34.90' W88°09.86' NOTAM FILE STL.

(L) VOR/DME 116.8 RBS Chan 115 166° 8.1 NM to Paxton. 780/2E.

RCO 122.1R 116.8T (ST LOUIS RADIO)

**CHICAGO**

H-5E, L-27C

IAP

**ROBINSON MUNI** (RSV) 4 E UTC-6(-5DT) N39°00.96' W87°38.99'  
462 B S2 FUEL 100LL, JET A, MOGAS TPA-1262(800) NOTAM FILE RSV  
RWY 09-27: H5109X75 (ASPH) S-35, D-50, DT-65 MIRL

ST LOUIS  
H-5E, L-27D  
IAP

RWY 09: REIL. PVASI(P SIL)—GA 3.0° TCH 27'. Tree.  
RWY 27: REIL. PVASI(P SIL)—GA 3.0° TCH 25'. Tree.  
RWY 17-35: H3399X75 (ASPH) S-5 MIRL  
RWY 17: REIL. Tree. RWY 35: Tree.

**AIRPORT REMARKS:** Attended 1300-0000Z†. MIRL Rwy 09-27 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 17-35, REIL Rwys 09, 27 and 17 PVASI Rwys 09 and 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.5 (618) 586-2772.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ HULMAN APP/DEP CON 119.25 (1100-0300Z‡)

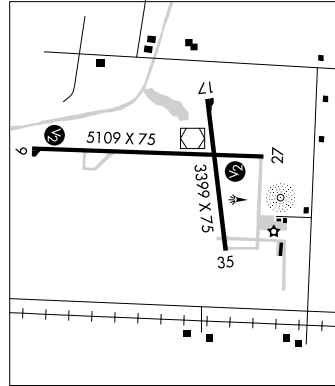
Ⓡ INDIANAPOLIS CENTER APP/DEP CON 132.2 (0300-1100Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RSV.

(T) VOR/DME 108.4 RSV Chan 21 N39°01.06'  
W87°38.93' at fld. 452/2E. VOR unmonitored  
0000-1300Z†.

VOR portion unusable 320°-340°

PALESTINE NDB (MHW) 391 PLX N39°00.85' W87°38.50' at  
fld. NOTAM FILE RSV.



**ROCHELLE MUNI AIRPORT-KORITZ FLD** (RPJ) 2 S UTC-6(-5DT) N41°53.58' W89°04.70'  
781 B S4 FUEL 100LL, JET A TPA-1581(800) NOTAM FILE RPJ

CHICAGO  
L-28H  
IAP

RWY 07-25: H4226X75 (ASPH-PFC) S-15 MIRL

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 20'.

RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 20'. Road.

**AIRPORT REMARKS:** Attended Nov-Apr Mon-Fri 1400-2300Z†, May-Oct Mon-Fri 1400-0100Z†, Sat-Sun 1500-2000Z†. MIRL Rwy 07-25 preset on low ints SS-SR only; to increase ints and ACTIVATE REIL Rwy 07, REIL Rwy 25, PAPI Rwy 07 and PAPI Rwy 25—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.675 (815) 562-2955.

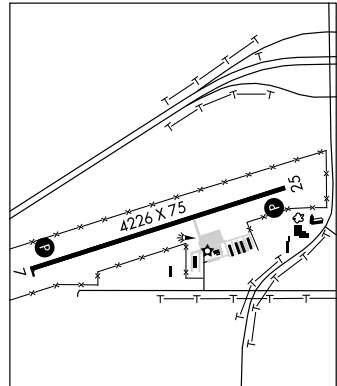
**COMMUNICATIONS:** CTAF/UNICOM 122.8

POLO RCO 122.1R 111.2T (KANKAKEE RADIO)

ROCKFORD APP/DEP CON 126.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

POLO (L) VOR/DME 111.2 PLL Chan 49 N41°57.94'  
W89°31.45' 099° 20.4 NM to fld. 840/3E. HIWAS.



**ROCKFORD** N42°13.53' W89°11.96' NOTAM FILE RFD.  
(L) VOR/DME 110.8 RFD Chan 45 111° 4.9 NM to Chicago/Rockford Intl. 868/1E.  
RCO 122.1R 110.8T (KANKAKEE RADIO) RCO 122.65 (KANKAKEE RADIO)

CHICAGO  
L-28H

## ROCKFORD

**COTTONWOOD** (1C8) 2 NW UTC-6(-5DT) N42°17.50' W89°08.17'

CHICAGO

741 TPA—See remarks. NOTAM FILE IKK

RWY 18-36: 2540X260 (TURF) LIRL (NSTD)

RWY 18: Rgt tfc. RWY 36: Thld dsplcd 400'. Tree.

**AIRPORT REMARKS:** Unattended. Rwy 18-36 NSTD LIRL S 2250' lgtd; variable ints and non-frangible mounts. TPA 1541(800) TPA for ultralights 1041(300). Rwy 36 dsplcd thld marked with white barrels and lgts.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RUSHVILLE****SCHUY-RUSH** (5K4) 1 W UTC-6(-5DT) N40°07.05' W90°35.42'

CHICAGO

665 TPA-1465(800) NOTAM FILE STL

**RWY 09-27:** 3565X100 (TURF) LIRL (NSTD)**RWY 09:** Thld dsplcd 305'. Road. **RWY 27:** Thld dsplcd 463'. Tree.**AIRPORT REMARKS:** Unattended. ACTIVATE NSTD LIRL Rwy 09-27—CTAF. Rwy 09-27 NSTD LIRL due to spacing. Rwy 09 first 305' unlgtd, Rwy 27 first 313' unlgtd. Rwy 09-27 dsplcd thld marked with white gravel both ends of rwy.**COMMUNICATIONS:** CTAF/UNICOM 123.0**SACKMAN FLD** (See COLUMBIA)**ST JACOB****ST LOUIS METRO-EAST/SHAFFER FLD** (3K6) 2 N UTC-6(-5DT) N38°43.97' W89°48.39'ST LOUIS  
L-27C, A  
IAP

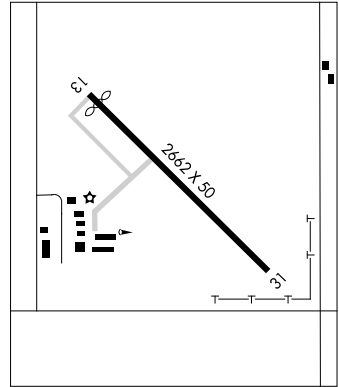
477 B S2 FUEL 100LL TPA-1277(800) NOTAM FILE STL

**RWY 13-31:** H2662X50 (ASPH) MIRL 0.3% up NW**RWY 13:** Thld dsplcd 127'. Road. **RWY 31:** Pole.**AIRPORT REMARKS:** Attended continuously. For noise abatement procedures ctc arpt manager 618-644-5411. MIRL Rwy 13-31 preset on low ints; to increase ints ACTIVATE—CTAF. Military helicopter ops prior permission only.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ SAINT LOUIS APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.**TROY (L) VORTACW** 116.0 TOY Chan 107 N38°44.35'

W89°55.12' 090° 5.3 NM to fld. 570/4E.

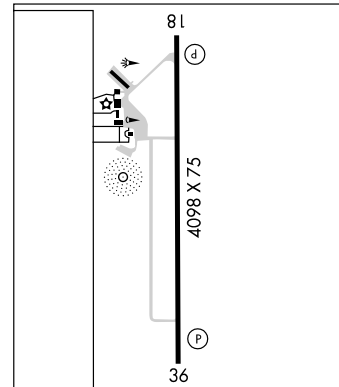
**ST LOUIS DOWNTOWN** (See CAHOKIA-ST LOUIS)**ST LOUIS METRO-EAST/SHAFFER FLD** (See ST JACOB)**ST LOUIS RGNL** (See ALTON/ST LOUIS)**SALEM-LECKRONE** (SLO) 2 NW UTC-6(-5DT) N38°38.57' W88°57.85'ST LOUIS  
L-27C  
IAP

573 B S4 FUEL 100LL NOTAM FILE SLO

**RWY 18-36:** H4098X75 (ASPH) S-12 MIRL**RWY 18:** REIL. PAPI(P4L)—GA 3.0° TCH 20'. Trees.**RWY 36:** PAPI(P4R)—GA 3.0° TCH 20'. Tree.**AIRPORT REMARKS:** Attended continuously. 100LL is self-serve with credit card. MIRL Rwy 18-36 preset low ints; to increase ints and ACTIVATE REIL Rwy 18—CTAF.**WEATHER DATA SOURCES:** AWOS-3 118.525 (618) 548-0469.**COMMUNICATIONS:** CTAF/UNICOM 122.8**KANSAS CITY CENTER APP/DEP CON** 127.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.**CENTRALIA (H) VORTAC** 115.0 ENL Chan 97 N38°25.20'

W89°09.54' 030° 16.2 NM to fld.

546/4E. HIWAS.

**NDB (MHW) 400 SLO** N38°38.64' W88°58.04' at fld. NOTAM FILE SLO.

**SAMSVILLE** N38°29.11' W88°05.15' NOTAM FILE STL.  
 (L) VOR/DME 116.6 SAM Chan 113 340° 14.8 NM to Olney–Noble. 540/3E.  
 RCO 122.1R 116.6T (ST LOUIS RADIO)

ST LOUIS  
L-27C

**SAVANNA**

**TRI-TOWNSHIP** (SFY) 3 SE UTC-6(-5DT) N42°02.75' W90°06.48'

616 B FUEL 100LL, MOGAS NOTAM FILE SFY  
 RWY 13-31: H4001X75 (ASPH) S-14, D-23 MIRL  
 RWY 13: Tree. RWY 31: Tower.

**AIRPORT REMARKS:** Unattended. Fuel available 24 hrs with credit card.  
 Wild geese on and in ovf arpt. MIRL Rwy 13-31 preset on low ints;  
 to increase ints and ACTIVATE twy lgts—CTAF. Irrigation sprinkler  
 system opr seasonally under AER 31.

**WEATHER DATA SOURCES:** AWOS-3 118.65 (815) 273-4429.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ QUAD CITY APP/DEP CON 125.95 (1130-0430Z‡)

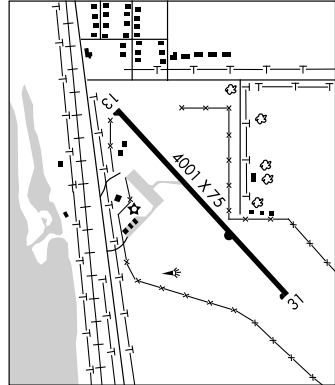
CHICAGO CENTER APP/DEP CON 118.75 (0430-1130Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

POLO (L) VOR/DME 111.2 PLL Chan 49 N41°57.94'  
 W89°31.45' 278° 26.6 NM to fld. 840/3E. HIWAS.

**COMM/NAV/WEATHER REMARKS:** AWOS temporarily unreliable.

CHICAGO  
L-28G  
IAP



**SCHAUMBURG MUNI HELISTOP** (See CHICAGO/SCHAUMBURG)

**SCHAUMBURG RGNL** (See CHICAGO/SCHAUMBURG)

**SCHUY-RUSH** (See RUSHVILLE)

**SCOTT AFB/MIDAMERICA** (See BELLEVILLE)

**SHELBY CO** (See SHELBYVILLE)

**SHELBYVILLE** N39°24.40' W88°50.62'. NOTAM FILE STL.  
 NDB (MHW) 365 SYZ at Shelby Co. Unmonitored.

ST LOUIS  
L-27C

**SHELBYVILLE**

**SHELBY CO** (2H0) 3 W UTC-6(-5DT) N39°24.63' W88°50.73'

618 B S4 FUEL 100LL TPA-1418(800) NOTAM FILE STL  
 RWY 18-36: H4099X75 (ASPH-PFC) S-4 MIRL

RWY 18: Road. RWY 36: PVASI(P SIL)—GA 3.0° TCH 25'. Road.

RWY 14-32: 3264X200 (TURF)

RWY 14: Tree. RWY 32: Thld displcd 522'. Road.

RWY 04-22: 2585X200 (TURF)

RWY 04: Thld displcd 484'. Road. RWY 22: Tree.

**AIRPORT REMARKS:** Attended 1400Z‡-dusk. Compromised sight  
 clearance between Rwy 04 and Rwy 32 ends. Rwy 36 PVASI OTS  
 indef. Rwy 04 and Rwy 32 displcd thlds marked with white gravel 2'  
 wide. Twy guidance at ngt utilize blue reflectors. Boundaries for  
 Rwy 04-22 and Rwy 14-32 are marked with white painted lines  
 spaced at 400' intervals.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

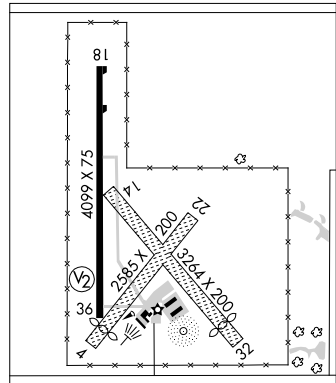
KANSAS CITY CENTER APP/DEP CON 124.3

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DEC.

DECATUR (H) VORTAC 117.2 DEC Chan 119 N39°44.25'  
 W88°51.38' 176° 19.6 NM to fld. 700/3E. HIWAS.

SHELBYVILLE NDB (MHW) 365 SYZ N39°24.40' W88°50.62' at  
 fld. Unmonitored. NOTAM FILE STL.

ST LOUIS  
L-27C  
IAP



**SKYDIVE CHICAGO** (See OTTAWA)**SOUTHERN ILLINOIS** (See CARBONDALE/MURPHYSBORO)**SPARTA COMMUNITY—HUNTER FLD** (SAR) 2 N UTC-6(-5DT) N38°08.94' W89°41.93'

ST LOUIS

538 B S4 FUEL 100LL, JET A NOTAM FILE SAR

L-16H

RWY 18-36: H4002X75 (ASPH) S-5 MIRL 0.4% up N

IAP

RWY 18: REIL. PAPI(P4L)—GA 3.0°TCH 20'. Tree.

RWY 36: PAPI(P4L)—GA 3.0°TCH 20'. Tree.

RWY 09-27: 2616X105 (TURF) 0.5% up W

RWY 09: Building. RWY 27: Tree.

**AIRPORT REMARKS:** Attended 1400-0000Z±. Self svc fuel avbl 24 hrs with credit card. There is a 60' by 60' conc pad E of fueling area for helo parking. Migratory waterfowl NW of Rwy 18-36. Rwy 09 and 27 marked with white cones. MIRL Rwy 18-36 and wind indicator preset on low ints; to increase ints and ACTIVATE REIL Rwy 18 and Twy A—CTAF.

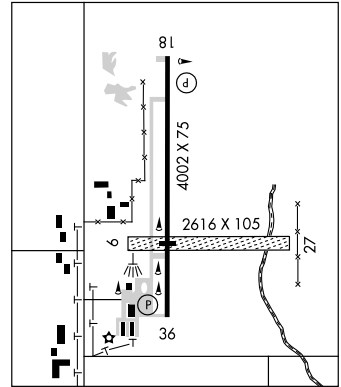
**WEATHER DATA SOURCES:** AWOS-3 118.375 (618) 443-3296.**COMMUNICATIONS:** CTAF/UNICOM 123.075

Ⓡ ST LOUIS APP/DEP CON 125.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.**CENTRALIA (H) VORTAC** 115.0 ENL Chan 97 N38°25.20'

W89°09.54' 234° 30.2 NM to fld. 546/4E.

HIWAS.

**SPINNER** N39°50.38' W89°40.66' NOTAM FILE SPI.

ST LOUIS

(H) VORTACW 112.7 SPI Chan 74 at Abraham Lincoln Capital. 586/1W.

H-5D, L-27C

RCO 122.25 (ST LOUIS RADIO)

## SPRINGFIELD

ABRAHAM LINCOLN CAPITAL (SPI) 3 NW UTC-6(-5DT) N39°50.65' W89°40.69'

ST LOUIS

598 B S4 FUEL 100LL, JET A OX 1, 2 ARFF Index—See Remarks NOTAM FILE SPI

H-5D, L-27C

RWY 04-22: H8001X150 (CONC-GRVD) S-100, D-200, ST-175, DT-350 HIRL IAP, AD

RWY 04: MALSR. VASI(V4L)—GA 3.0° TCH 56'. Tree.

RWY 22: MALSR. VASI(V4L)—GA 3.0° TCH 54'. Tree.

RWY 13-31: H7400X150 (ASPH-GRVD) S-70, D-90, ST-114, DT-160 HIRL

RWY 13: REIL. PAPI(P4R) GA 3.0° TCH 50'. Trees.

RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 54'. Tree.

RWY 18-36: H5300X150 (ASPH-CONC) S-60, D-70, ST-89, DT-130 MIRL

RWY 18: Tree. RWY 36: Tree.

## LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 04	13-31	3200
RWY 22	13-31	4150
RWY 31	04-22	3350
RWY 36	13-31	3000

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 04:	TORA-8001	TODA-8001	ASDA-8001	LDA-8001
RWY 13:	TORA-7400	TODA-7400	ASDA-7217	LDA-7217
RWY 18:	TORA-5300	TODA-5300	ASDA-5300	LDA-5300
RWY 22:	TORA-8001	TODA-8001	ASDA-8001	LDA-8001
RWY 31:	TORA-7400	TODA-7400	ASDA-7000	LDA-7000
RWY 36:	TORA-5300	TODA-5300	ASDA-5300	LDA-5300

## ARRESTING GEAR/SYSTEM

RWY 04: BAK-14 BAK-12(B) (1329')

BAK-14 BAK-12 (1329') RWY 22

RWY 13 BAK-12(B) (800')

AIRPORT REMARKS: Attended continuously. Rwy 18-36 CLOSED 0400-1200Z†. Crane 788' (199' AGL) 22.24 NM

SSE. Be alert; a 10' lgtd barricade separates the air carrier and the south general aviation ramp. General aviation access to and parking on the air carrier ramp is prohibited. Acft on the golf ramp not visible from twr, entrance to Twy Y between hangars C and D not visible from twr, Twy Y marked with non standard signage. Acft taxiing to Rwy 04 via Twy C must taxi via Twy C, Twy H and Twy A for a full length Rwy 04 departure. Intersection departure Rwy 04 at Twy H has 7200' remaining. Acft in berm area adjacent Twy E and Twy G not visible from twr, acft in berm area taxi at own risk. Twy Y not available for air carrier ops with more than 30 passenger seats. During snow removal ops equipment operators will monitor CTAF when the twr is clsd. When twr clsd ACTIVATE HIRL Rwy 13-31, HIRL Rwy 04-22, MALSR Rwy 04, Rwy 22 and Rwy 31, VASI Rwy 31 and REIL Rwy 13—CTAF. PAPI Rwy 13 and VASI Rwy 04, Rwy 22 opr continuously. MIRL Rwy 18-36 ints preset on/off per wind conditions when twr clsd. Class I ARFF Index A. AARF Index C equipment avbl upon req; call 217-788-1080. Rwy 18-36 400' concrete N end. NOTE: See Special Notices—Aerobatic Practice Areas in Illinois.

WEATHER DATA SOURCES: ASOS (217) 789-7389. LLWAS.

COMMUNICATIONS: CTAF 121.3 ATIS 127.65 UNICOM 122.95

SPINNER RCO 122.25 (ST LOUIS RADIO)

① SPRINGFIELD APP/DEP CON 118.6 (1200-0400Z†)

KANSAS CITY CENTER APP/DEP CON 127.275 (0400-1200Z†)

SPRINGFIELD TOWER 121.3 (1200-0400Z†) GND CON 121.9 CLNC DEL 121.7

AIRSPACE: CLASS C svc 1200-0400Z† ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE SPI.

SPINNER (H) VORTACW 112.7 SPI Chan 74 N39°50.38' W89°40.66' at fld. 586/1W.

HUSK NDB (MHW/LOM) 382 SP N39°46.39' W89°45.59' 043° 5.7 NM to fld.

CALDE NDB (LOM) 240 CJ N39°47.68' W89°35.56' 308° 4.9 NM to fld. Unmonitored.

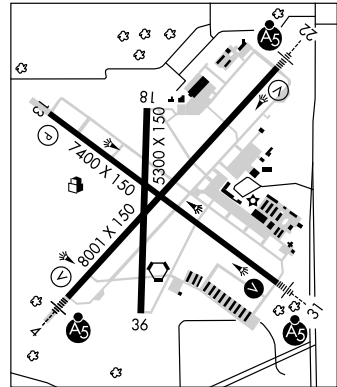
LICOL NDB (MHW/LOM) 375 LQ N39°54.72' W89°36.18' 221° 5.3 NM to fld.

ILS 109.5 I-SPI Rwy 04. Class IT. LOM HUSK NDB. ILS unmonitored when twr clsd.

ILS 111.7 I-LQY Rwy 22. Class IA. LOM LICOL NDB. ILS unmonitored when twr clsd.

ILS 110.15 I-CJF Rwy 31. Class IE. LOM CALDE NDB. ILS unmonitored when twr clsd. Glide slope unmonitored.

ASR (1200-0400Z†)





**STERLING/ROCKFALLS****WHITESIDE CO ARPT—JOS H BITTORF FLD** (SQI) 2 S UTC-6(-5DT) N41°44.57' W89°40.58'

CHICAGO

648 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 TPA—See Remarks NOTAM FILE SQI

H-5D, L-28G

RWY 07-25: H6498X150 (ASPH-PFC) S-50, D-60, DT-90 HIRL

IAP

RWY 07: REIL. VASI(V4L)—GA 3.0° TCH 46'. Tree.

RWY 25: MALSR. Tree.

RWY 18-36: H3900X100 (ASPH-GRVD) S-18 MIRL

RWY 18: REIL. Brush. RWY 36: REIL. Road.

**AIRPORT REMARKS:** Attended Oct-Apr 1400-0000Z†, May-Sep 1400-0100Z†. Unattended New Years; Christmas; and Thanksgiving. Rwy 07 preferred calm wind rwy. TPA—1448 (800) for piston acft, 2148 (1500) for jet acft. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE HIRL Rwy 07-25; MALSR Rwy 25 and REIL Rwsy 07, 18 and 36—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.175 (815) 626-2704.**COMMUNICATIONS:** CTAF/UNICOM 123.0

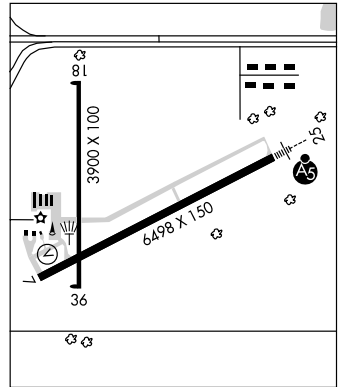
Ⓡ ROCKFORD APP/DEP CON 126.0 ROCKFORD CLNC DEL 128.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE IKK.

POLO (L) VOR/DME 111.2 PLL Chan 49 N41°57.94' W89°31.45' 204° 15 NM to fld. 840/3E. HIWAS.

NDB (MHW) 254 BOZ N41°42.67' W89°47.14' 068° 5.3 NM to fld.

ILS 111.5 I-SQI Rwy 25 Unmonitored. Localizer BC unusable byd 15 NM.

**TAYLORVILLE MUNI** (TAZ) 2 SW UTC-6(-5DT) N39°31.95' W89°19.84'

ST LOUIS

622 B S4 FUEL 100LL, JET A TPA—See remarks NOTAM FILE TAZ

L-27C

RWY 18-36: H4001X75 (ASPH-PFC) MIRL

IAP

RWY 18: REIL. PVASI(PSIL)—GA 3.0° TCH 39' Tree.

RWY 36: PVASI(PSIL)—GA 3.0° TCH 34'. Tree.

RWY 09R-27L: H3500X60 (ASPH) MIRL

RWY 09R: REIL. PVASI(PSIL)—GA 3.0° TCH 26'. Trees. Rgt tfc.

RWY 27L: REIL. PVASI(PSIL)—GA 4.0° TCH 33'. Tree.

RWY 09L-27R: 1920X180 (TURF)

RWY 09L: Tree. RWY 27R: Thld dspcd 300'. Road. Rgt tfc.

**AIRPORT REMARKS:** Attended May-Oct Mon-Thu 1400-0000Z†, May-Oct Fri-Sun 1400-0100Z†, Oct-May 1400-0000Z†. Parachute Jumping. 172' high water twr located 3007' from end of Rwy 27L and 488' left of rwy centerline. Lighted with red obstacle lights. TPA 1422(800) TPA for Rwy 09L-27R 1222(600). PVASI left side of Rwy 18 750' from apch end and PVASI left side of Rwy 36 650' from apch end. Rwy 09L end marked with white rocks. Rwy 27R end not marked. Rwy 27R thld and dspcd thld marked with L-shaped white rock. Rwy 18 PVASI opr only when rwy lghts are activated by CTAF. Unusable byd 6° left/rgt of course. Rwy 36 PVASI unusable byd 5° left/rgt of centerline. Rwy 09R PVASI unusable byd 8° rgt of course. Rwy 27L PVASI unusable 6° rgt/8° left of course. MIRL Rwy 18-36 preset on low ints; to incr ints and ACTIVATE MIRL Rwy 09R-27L, PVASI Rwy 09R, Rwy 18, Rwy 27L and Rwy 36 and REIL Rwy 09R, Rwy 18 and Rwy 27L—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 123.875 395 TAZ (217) 824-9323.**COMMUNICATIONS:** CTAF/UNICOM 122.8

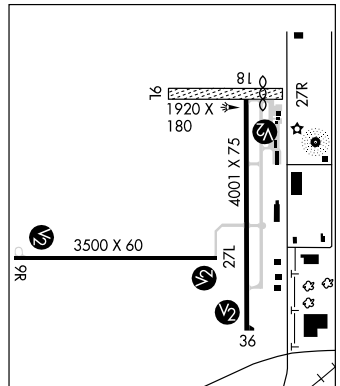
Ⓡ SPRINGFIELD APP/DEP CON 118.6 (1200-0400Z†)

KANSAS CITY CENTER APP/DEP CON 124.3 (0400-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE SPI.

SPINNER (H) VORTACW 112.7 SPI Chan 74 N39°50.38' W89°40.66' 140° 24.4 NM to fld. 586/1W.

NDB (MHW) 395 TAZ N39°32.17' W89°19.42' at fld. AWOS-3. NOTAM FILE STL. Unmonitored. NOTAM FILE TAZ.

**TINLEY PARK HELISTOP** (See CHICAGO/TINLEY PARK)**TRI-COUNTY** (See YATES CITY)**TRI-TOWNSHIP** (See SAVANNA)

**TROY** N38°44.35' W89°55.12' NOTAM FILE STL.  
(L)VORTACW 116.0 TOY Chan 107 090° 5.3 NM to St Louis Metro—East/Shafter Fld.  
570/4E.

ST LOUIS  
H-5D, L-27C, A

**TUNGG** N40°36.34' W89°35.59' NOTAM FILE PIA.  
NDB (MHW/LOM) 356 PI 307° 5.8 NM to General Downing—Peoria Intl.

CHICAGO  
L-27C

**TUSCOLA** (K96) 2SW UTC-6(-5DT) N39°46.85' W88°18.37'  
665 S4 FUEL 80, 100LL TPA—1465(800) NOTAM FILE STL  
RWY 09-27: 2660X30 (GRVL) LIRL  
RWY 09: Tree. RWY 27: Thld dspclcd 660'. Road.

ST LOUIS

**AIRPORT REMARKS:** Attended Mon-Fri, 1400-2200Z†. Rwy 09-27 surface is a chip and seal. Rwy 27 dspclcd thld lgts NSTD, consist of two on each side spaced at 10' btn lgts. Seasonal crops AER 09 can periodically block view of thld lgts. There is no lighted, marked dspclcd thld for ngt ops. Rwy lighting alignment does not define center of rwy. NOTE: See Special Notices—Model Rocket Activity.

**COMMUNICATIONS:** CTAF 122.9

**UNIVERSITY OF ILLINOIS—WILLARD** (See CHAMPAIGN/URBANA)

## URBANA

**FRASCA FLD** (C16) 1 N UTC-6(-5DT) N40°08.78' W88°11.91'  
735 FUEL 100LL, JET A OX 3 TPA—1535(800) NOTAM FILE STL  
RWY 09-27: H4001X55 (CONC) MIRL 0.3% up W

CHICAGO  
L-27C  
IAP

RWY 09: Tree. RWY 27: Pole. Rgt tfc.

RWY 18-36: 3654X140 (TURF)

RWY 36: Thld dspclcd 318'. Pole.

**AIRPORT REMARKS:** Attended dawn-dusk.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

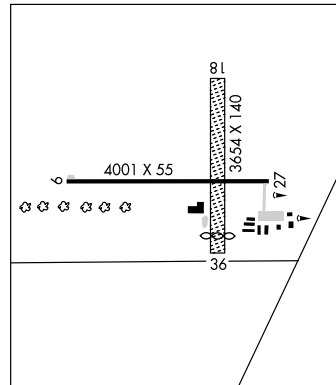
CHAMPAIGN RCO 122.45, 122.1R, 110.0T (ST LOUIS RADIO)

® CHAMPAIGN APP/DEP CON 121.35 (1200-0500Z†)

CHICAGO CENTER APP/DEP CON 121.35 (0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CMI.

CHAMPAIGN (L) VORTAC 110.0 CMI Chan 37 N40°02.07'  
W88°16.56' 025° 7.6 NM to fld. 745/3E.



**VANDALIA** N39°05.62' W89°09.75' NOTAM FILE STL.  
(L) VORTAC 114.3 VLA Chan 90 178° 6.2 NM to Vandalia Muni. 604/4E.  
RCO 122.1R 114.3T (ST LOUIS RADIO)

ST LOUIS  
H-5E, L-27C

**VANDALIA MUNI** (VLA) 3 NW UTC-6(-5DT) N38°59.49' W89°09.97'

ST LOUIS

537 B FUEL 100LL, JET A NOTAM FILE STL

L-27C

RWY 18-36: H3752X100 (ASPH-PFC) S-21 MIRL

IAP

RWY 18: REIL. PAPI (P4L)—GA 3.0 TCH 20'. Road.

RWY 36: Road.

RWY 09-27: H3001X75 (ASPH) S-19 MIRL

RWY 09: Tree. RWY 27: REIL. Tree.

**AIRPORT REMARKS:** Attended 1400-2300Z+. Fuel is self-serve with credit card. Parachute Jumping. MIRL Rwy 18-36 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 09-27, PAPI Rwy 18, and REILS Rwy 18 and Rwy 27—CTAF.

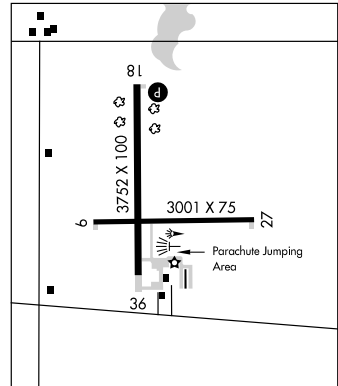
**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.1R 114.3T (ST LOUIS RADIO)

KANSAS CITY CENTER APP/DEP CON 124.3

**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

(L) VORTAC 114.3 VLA Chan 90 N39°05.62' W89°09.75'  
178° 6.2 NM to fld. 604/4E.

**VEALS** N39°57.97' W88°10.95' NOTAM FILE CMI.

CHICAGO

NDB (LOM) 407 CM 315° 6.2 NM to University of Illinois-Willard.

**VERMILION RGNL** (see DANVILLE)**WATSON****PERCIVAL SPRINGS** (2T2) 1 SE UTC-6(-5DT) N39°00.84' W88°32.34'

ST LOUIS

550 B TPA-950(400) NOTAM FILE STL

RWY 18-36: 2000X100 (TURF) LIRL (NSTD)

RWY 18: Road. RWY 36: Road.

**AIRPORT REMARKS:** Attended 1400Z+—dusk. Predominantly ultralight and stol activity on and invof arpt. Pilots advised to monitor 122.8 due to close proximity of Effingham Co Mem. EMS helicopter operation with extensive activity is based at this arpt. Rwy 18-36 NSTD LIRL. lghts are solar powered and lgt ints varies. Windssock on top of building is lgted with flood lgt. Rwy 18 ends marked with one orange cone on each side of rwy end.

**COMMUNICATIONS:** CTAF 122.9**WAUKEGAN RGNL** (See CHICAGO/WAUKEGAN)**WAUKE** N42°27.84' W87°48.09' NOTAM FILE DPA.

CHICAGO

NDB (LOM) 379 UG 233° 3.4 NM to Waukegan Rgnl.

**WAYNE CO** N38°22.80' W88°24.59' NOTAM FILE FWC.

ST LOUIS

NDB (MHW) 257 FWC at Fairfield Muni.

L-27C

**WEST CHICAGO** (See CHICAGO/WEST CHICAGO)**WHEELING** (See CHICAGO/WHEELING)**WHITESIDE** N41°42.67' W89°47.14' NOTAM FILE IKK.

CHICAGO

NDB (MHW) 254 BOZ 068° 5.3 NM to Whiteside Co Arpt—Jos H. Bittorf Fld.

L-28G

**WHITESIDE CO ARPT—JOS H BITTORF FLD** (See STERLING/ROCKFALLS)**WILLIAMSON CO RGNL** (See MARION)**YATES CITY****TRI-COUNTY** (2C6) 03 W UTC-6(-5DT) N40°46.44' W90°04.47'

CHICAGO

661 NOTAM FILE IKK

RWY 02-20: 2809X150 (TURF) LIRL (NSTD)

RWY 02: Trees. RWY 20: Trees.

**AIRPORT REMARKS:** Attended on call. Geese on and invof arpt. ACTIVATE NSTD LIRL Rwy 02-20—CTAF. Rwy 02-20 NSTD LIRL due to spacing. Rwy 02-20 thld marked with white gravel.

**COMMUNICATIONS:** CTAF 122.9

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## 2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
April	10-11	Eglin AFB, FL			
	11		NAS Key West, FL		
	17		Charleston AFB, SC		
	17-18	Lakeland, FL			
	24-25	Barksdale AFB, LA	Vidalia, GA	Ft. Lauderdale, FL	
	24-25			Galena, FL	
May	1	Dyess AFB, TX			
	2	Altus AFB, OK			
	1-2		St. Joseph, MO		
	8-9	Shaw AFB, SC	Tuscaloosa, AL	Shaw AFB, SC	Niagara Falls, NY
	8-9			Tuscaloosa, AL	
	13			Union, NJ	
	15-16	Columbus AFB, MS	Andrews AFB, MD	Columbus AFB, MS	
	15-16			Andrews AFB, MD	
	22	Grand Forks AFB, ND			
	22-23		MCAS Cherry Point, NC		
	26	Colorado Springs, CO	Annapolis, MD		
	29-30	Janesville, WI	Jones Beach, NY	Jones Beach, NY	
	29-30			Janesville, WI	
June	5-6	Ocean City, MD	Eau Claire, WI	Eau Claire, WI	
	5-6			Florence, SC	
	12-13		Milwaukee, WI	Milwaukee, WI	
	19-20		Cape Girardeau, MO	Cape Girardeau, MO	
	19-20	Tinker AFB, OK		Gaylord, MI	
	26-27	North Kingstown, RI	St. Cloud, MN	Findlay, OK	
July	3			Madison, WI	
	3			Dubuque, IA	
	3-4		Traverse City, MI		
	4			Ft Bragg, NC	
	10		Pensacola Beach, FL		
	10-11	Gary, IN		Gary, IN	
	17-18	Duluth, MN	Dayton, OH		
	24-25	Fairchild AFB, WA	Idaho Falls, ID		
	28	Cheyenne, WY			
	29			Goshen, IN	
	29			Ft AP Hill, VA	
	31	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
31			Johnstown, PA		

## SPECIAL NOTICES

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
August	1	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
	1			Johnstown, PA	
	7-8	TBD	Seattle, WA		
	14-15		Chicago, IL	Chicago, IL	
	21-22	Westfield, MA		Westfield, MA	
	21-22			Kansas City, MO	
	25			Atlantic City, NJ	
	26			Ft Monroe, VA	
	28-29	Coney Island (Brooklyn), NY	Portsmouth, NH	Coney Island (Brooklyn), NY	
	28-29			Portsmouth, NH	
September	4-5	Martinsburg, WV		Cleveland, OH	
	4-5			Martinsburg, WV	
	4-6		Cleveland, OH		
	11-12	Corapolis (Pittsburgh), PA	Scott AFB, IL	Corapolis (Pittsburgh), PA	
	11-12			Scott AFB, IL	
	18-19	Whiteman AFB, MO	NAS Oceana, VA	Whiteman AFB, MO	Reno, NV
	25-26	McConnell AFB, KS	MCAS Kaneohe Bay, HI		
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, IX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24	Houston, TX	NAS Jacksonville, FL	Washington, DC	
	30-31	Cocoa Beach, FL	Ft Worth Alliance, TX	Ft Worth Alliance, TX	
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.

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**CHICAGO, ILLINOIS**  
**MAJOR CONSTRUCTION PROJECT CHICAGO O'HARE RWY 14R-32L**

On May 6, 2010 Chicago O'Hare Runway 14R-32L will be shortened from 13,000 feet to 9,685 feet via a relocation of the Runway 32L threshold. At that time, all approaches into Runway 32L will be cancelled. The new declared distances are shown below. (Note that there is no LDA for Runway 32L since it will no longer be an arrival runway.)

<b>Runway 14R:</b>	<b>Runway 32L:</b>
TORA-9685	TORA-9685
TODA-9685	TODA-9685
ASDA-9662	ASDA-9685
LDA-8650	

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**MODEL ROCKET ACTIVITY IN ILLINOIS**

**Hillsboro Municipal Airport (3K4), Hillsboro, IL**

Model Rocket activity will be conducted within a 2 NM radius of the VLA273011, SFC to 8,000 Feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Tuscola Airport (K96), Tuscola, IL**

Model Rocket activity will be conducted within a 2 NM radius of Tuscola Airport (K96), SFC to 10,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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**AEROBATIC PRACTICE AREAS IN ILLINOIS**

**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. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Smith Airport (LL27), Macomb, IL**

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Williamson County Regional Airport (MWA), Marion, IL**

Aerobatic practice will be conducted within 1 NM radius of Williamson County Regional Airport (MWA), SFC to 5,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**Pinckneyville-DuQuoin Airport (PJY), Pinckneyville, IL**

Aerobatic practice will be conducted within 2 NM radius of Pinckneyville-DuQuoin Airport (PJY), SFC to 3,900 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

**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. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

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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) VORTAC 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**

**Skyway Estates Airport (60G), Eaton Rapids, MI**

Aerobatic Flight Activity will be conducted within a 1 (one) NM radius of the Lansing (LAN) VORTAC 171R/8DME. Flights will occur from SR to SS from 2,500 MSL to 6,000 MSL.

Pilots should use caution when operating within this area. For further information, contact Lansing ATCT at 1-517-321-1355 or freq. 119.9.

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### Search Light Activity Dayton, OH

Search light activity will be conducted at the Dayton Schuster Performing Arts Center, Dayton, OH (FFO VORTAC 241/7.23, Lat 39-45-39.56N, Lon 084-11-32.94W) at and above 1500 MSL, from dusk until midnight. Searchlight beams may be injurious to pilots/passengers eyes at 1500 MSL and above. Flash blindness or cockpit illumination may occur at greater distances, to several miles. For further information, contact Dayton AFSS at 937-454-8398.

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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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### INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO, ILLINOIS

Chicago O'Hare International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 10 at Taxiway ZH  
Runway 14L at Taxiway U2  
Runway 14L at Taxiway V  
Runway 28 at Taxiway ZW  
Runway 28 at Taxiway ZV  
Runway 32R at Taxiway V  
Runway 32L at Taxiway T10  
Runway 32L at Taxiway M

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower unless the aircraft's position can be verified by the Airport Surface Detection Equipment (ASDE) prior to the issuance of a departure clearance. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only, departures shall not be permitted from any point on the runway other than the intersections listed above, and only one aircraft at a time is permitted to taxi into position and hold on each respective runway.

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### INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS INDIANAPOLIS INTERNATIONAL AIRPORT (IND) INDIANAPOLIS, INDIANA

Indianapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 23L at Taxiways "C2" and "D2"  
Runway 23R at Taxiways "A2" and "B2"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE)  
MILWAUKEE, WISCONSIN**

Milwaukee Mitchell International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersection listed below.

**Runway 19R at Taxiway Victor**

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

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**INTERSECTING RUNWAY OPERATIONS  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct intersecting runway operations to Runway 28 and Runway 14R whereby an aircraft departing Runway 28 shall be through the intersection of Runway 14R prior to the arriving aircraft on Runway 14R reaching a point no closer than 5,000 feet from the intersection of both runways.

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**SIMULTANEOUS OPPOSITE DIRECTION OPERATIONS  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct arrivals to Runways 14L & 14R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions. ORD ATCT is authorized to conduct simultaneous converging instrument approaches to runways 14R & 22R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions.

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**SIMULTANEOUS ILS APPROACHES WITH ONE GLIDE SLOPE OUT OF SERVICE  
CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)  
CHICAGO, ILLINOIS**

Chicago O'Hare International Airport Traffic Control Tower and Chicago TRACON have been authorized to conduct independent simultaneous ILS approaches with the glide slope of one parallel runway inoperative.

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**ILS PRM (SIMULTANEOUS CLOSE PARALLEL) PROCEDURE FOR  
PILOTS FILING FLIGHT PLANS TO CLEVELAND-HOPKINS  
INTERNATIONAL (CLE)**

Effective Thursday, May 12, 2005. During the hours of 0700-2200 local, CLE ATCT may utilize ILS PRM and LDA PRM apchs to Runways 6L/6R as weather and arrival traffic demand dictate. Aircraft arriving from the west and north (primarily over ZABER and HIMEZ INT.) should expect ILS PRM Runway 6L, aircraft arriving from the east and south (primarily over CXR and KEATN INT.) should expect LDA PRM Runway 6R. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1-800-333-4286 or at 703-904-4452 prior to departure to obtain a pre-coordinated arrival time. Non-participating acft may encounter DLAS attributable to PRM flow. Pilot requirements and procedures are outlined in the U.S. Terminal Procedures Publications on the pages entitled Attention All Users of ILS Precision Runway Monitor (PRM) or LDA Precision Runway Monitor (PRM).

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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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### **CHICAGO, ILLINOIS CHICAGO O'HARE VOR/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 nonuse 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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### **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.

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**CONTINUOUS POWER FACILITIES**

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

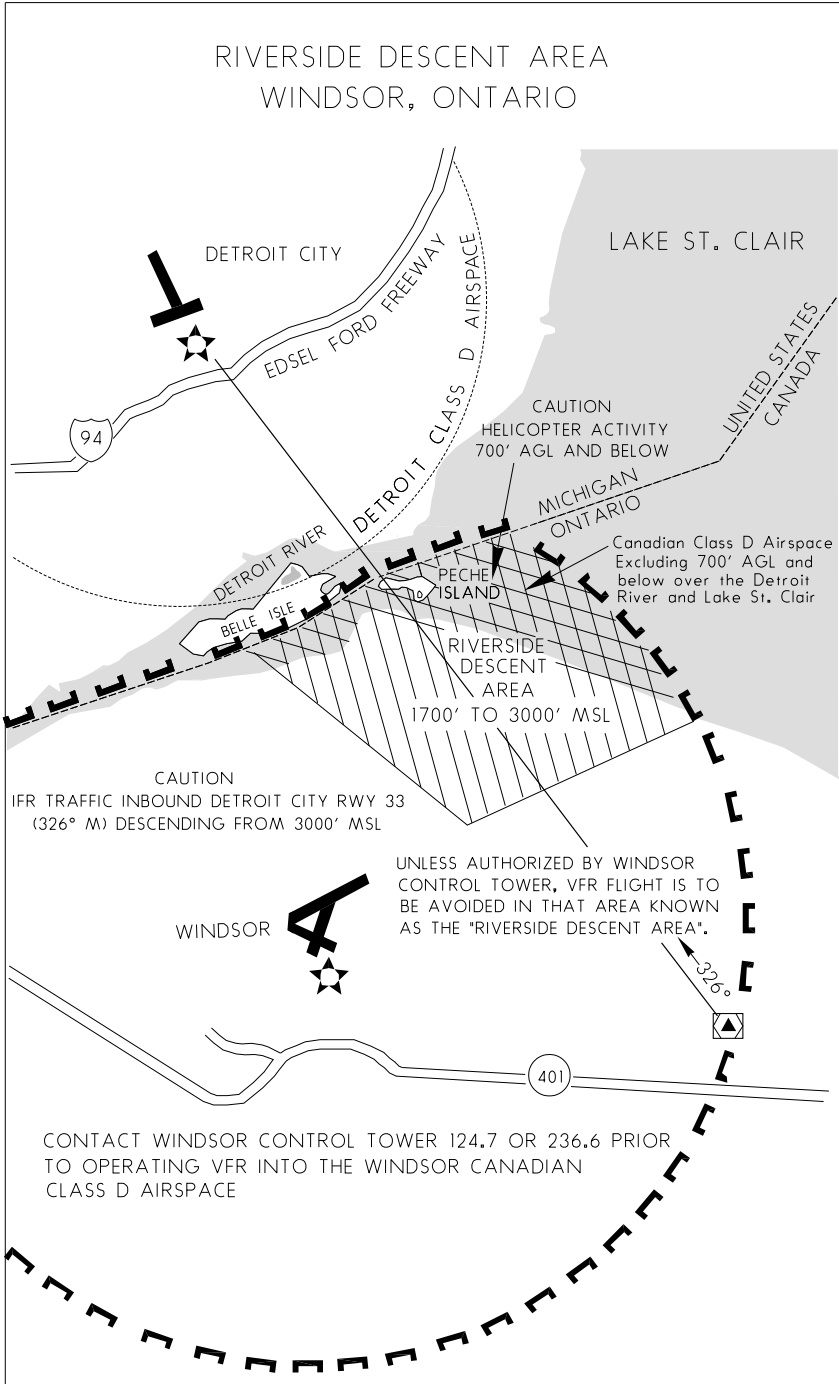
1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

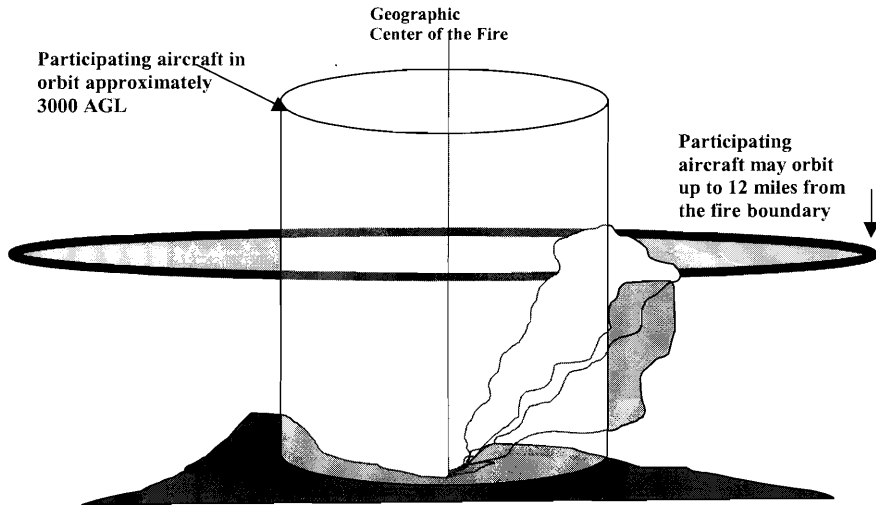
<b>Airport/Ident</b>	<b>Runway No.</b>	<b>Airport/Ident</b>	<b>Runway No.</b>
Albuquerque, NM (ABQ) .....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC) .....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA) .....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	10
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA) .....	22
Boise, ID (BOI) .....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT) .....	36L	Omaha, NE (OMA) .....	14R
Chicago, IL (ORD) .....	14R	Ontario, CA (ONT) .....	26L
Cincinnati, OH (CVG) .....	36C	Philadelphia, PA (PHL) .....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX) .....	08
Dallas/Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN) .....	35R	Reno, NV (RNO) .....	16R
Des Moines, IA (DSM) .....	31	Salt Lake City, UT (SLC) .....	34L
Detroit, MI (DTW) .....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	01L	San Francisco, CA (SFO) .....	28R
Great Falls, MT (GTF) .....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	36L
Jacksonville, FL (JAX) .....	07	Tulsa, OK (TUL) .....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX) .....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT) .....	01L
Miami, FL (MIA) .....	08R		

**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

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**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.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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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 provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

**Selected remote FSS** facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

**EAST CENTRAL U.S.**

**ILLINOIS:** Kankakee, Greater Kankakee (IKK)–**IKK FSS**

**MICHIGAN:** Lansing, Capital City (LAN)–**LAN FSS**

**Telephone Information Briefing Service (TIBS)** is the FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

**NATIONAL FSS TELEPHONE NUMBER**

Pilot Weather Briefings ..... 1-800-WX-BRIEF (1-800-992-7433)

**OTHER FSS TELEPHONE NUMBERS (except in Alaska)**

TIBS (see description above) ..... 1-800-4TIBS-WX (1-877-484-2799)

Clearance Delivery Only ..... 1-888-766-8267

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

Flights within DC SFRA & FRZ \* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone

## KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

**TAF** KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT  
 FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA  
 OVC008CB  
 FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR  
 FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

**METAR** KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB  
 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiAbLe</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute M</u> iles & fractions; above 6 miles in <b>TAF Plus6SM</b> . (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change)	<b>R28L/2600FT</b>
<b>HZ</b>	Significant present, forecast and recent weather: see table (on back)	<b>TSRA</b>
<b>FEW020</b>	Cloud amount, height and type: <u>SKy</u> Clear 0/8, <u>FEW</u> >0/8-2/8, <u>SCaTtered</u> 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OverCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>Vertical V</u> isibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated <b>METAR</b> reports only, <u>CLeaR</u> for "clear below 12,000 feet"	<b>OVC010CB</b>
	Temperature: degrees Celsius; first 2 digits, temperature <u>"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	<b>18/16</b>
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>A2992</b>



## KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<b>WS010/3102ZKT</b>  <b>FM1930</b>  <b>TEMPO 2022</b>  <b>PROB40 0407</b>  <b>BECMG 1315</b>	In U.S. <b>TAF</b> , non-convective low-level ( $\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"Z"</u> ; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>  In <b>METAR</b> , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C  <u>FroM</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.  <u>TEMPO</u> rary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period  <u>PROB</u> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period  <u>BECM</u> inG: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	<b>RMK</b> <b>SLP045</b> <b>T01820159</b>

**Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.**

<b>QUALIFIER</b>			
<b>Intensity or Proximity</b>			
- Light	"no sign"	Moderate	+ Heavy
VC Vicinity; but not at aerodrome; in U.S. <b>METAR</b> , between 5 and 10SM of the point(s) of observation; in U.S. <b>TAF</b> , 5 to 10SM from center of runway complex (elsewhere within 8000m)			
<b>Descriptor</b>			
MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing
<b>WEATHER PHENOMENA</b>			
<b>Precipitation</b>			
DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			
<b>Obscuration</b>			
BR Mist ( $\geq 5/8SM$ )	FG Fog ( $< 5/8SM$ )	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust
<b>Other</b>			
SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

**UNITED STATES DEPARTMENT OF COMMERCE**

**NOAA/PA 96052**

**National Oceanic and Atmospheric Administration—National Weather Service**

**FAA AND NWS  
KEY AIR TRAFFIC FACILITIES**

**Air Traffic Control System Command Center**

Main Number.....703-904-4400

**RGNL AIR TRAFFIC DIVISIONS**

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

**AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)**

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

**MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)**

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

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

**KEY AIR TRAFFIC FACILITIES  
DAILY NAS REPORTABLE AIRPORTS**

<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	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

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

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

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**®CHICAGO CENTER** 127.8 125.2

**H-2-5-10-12, L-12-27-28-31, A-1**  
**(KZAU)**

**Aurora** – 123.75  
**Burlington** – 135.6  
**Chicago Heights** – 132.95  
**Crown Point** – 127.8  
**Danville** – 135.75  
**Des Plaines** – 133.2 128.65 120.35  
**Downers Grove** – 135.75 127.6  
**Dubuque** – **127.775** 133.95 **125.225**  
**Ft. Wayne** – **126.325** 119.85  
**Goshen** – 133.9 135.9 127.55  
**Grand Rapids** – **126.125** 128.4  
**Hampshire** – 134.2 133.35  
**Horicon** – 135.55 **132.75** **132.225**  
**Jones** – **125.975** **120.225**  
**Kankakee** – 132.5 120.125 **118.225**  
**Lafayette** – 123.85  
**Leroy** – 119.225  
**Lone Rock** – 133.3  
**Maple Park** – 127.075  
**Milford** – **135.4** **132.5** 127.45 125.05 120.175  
**Milwaukee** – 134.75 132.3 125.1  
**Moline** – **135.825** 118.75  
**Monee** – **133.425**  
**Muskegon** – **132.27**  
**Oshkosh** – 132.1  
**Pullman** – 128.5  
**Rockford** – **120.375**  
**Rossville** 125.375 **120.975**  
**South Bend** – **135.35**  
**Volk Fld** 125.05

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**®CLEVELAND CENTER**
**H-2-5-10-11, L-27-28-29-30-31-32, A-2**  
**(KZOB)**

**Algonac** – **134.775** 132.25 **126.525**  
**Belmont** – **135.175** **124.425** 120.4  
**Carleton** – **134.775** 119.95  
**Chardon** – 120.775  
**Detroit (North)** – **120.075**  
**Findlay** – 135.1 **127.675**  
**Flint** – 127.7 126.75  
**Holland** – **135.775** **121.175**  
**Jackson** – 134.65 127.3  
**Litchfield** – **135.725** 134.65 120.45  
**Mansfield** – 134.9 **133.375**  
**Mt Hope** – 120.6  
**Paris** – 128.15 120.6  
**Saginaw** – **133.525** 127.7  
**Sandusky** – 132.45 127.9 **119.875** **119.325**  
**Waterville** – 128.625

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**® INDIANAPOLIS CENTER – 133.425 132.775 128.375**

H-5-9-10-12, L-16-25-26-27-29

125.55 124.525 119.55

(KZID)

**Brookville – 135.8 135.125 120.575****Evansville – 132.525 128.3****Henryville – 134.275 133.05 124.775****London – 134.0 128.775 126.57 124.8 120.475****Marietta – 125.55****Merwyn – 135.575 134.7 123.925****Muncie – 120.65****New Hope – 124.625 121.175****Portsmouth – 135.575 135.75 124.225 120.275****Rosewood – 128.075****Terre Haute – 134.175 132.2****Winchester – 128.22 126.375 123.775****Zanesville – 133.775 132.825 125.075 124.45****® KANSAS CITY CENTER – 135.3**

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

Decatur – 132.1 124.3

(KZKC)

**Effingham – 135.05 133.225 124.3****Kirksville – 134.625 132.6**

Marion – 125.3

**Mt Vernon – 132.875 127.7**

Quincy – 135.525

St Charles – 125.9 121.25

St Louis – 128.1 **127.225** 125.5**Vandalia – 125.725****® MINNEAPOLIS CENTER**

H-2-5-10-11, L-10-12-13-14-27-28-31

(KZMP)

Central Wisconsin – 124.4

**Duluth – 134.675 134.55 134.55 127.9****Eau Claire – 133.75 125.3**

Escanaba – 127.65

Farmington – 133.7

Flying Cloud – 133.7 121.05

Green Bay – 125.55

Hayward – 126.45

Houghton – 127.2

**Iron Mountain – 133.45 121.25**

Ironwood – 133.55

La Crosse – 128.6 118.85

Mosinee – 124.4

**Pellston – 134.6 132.425**

Princeton – 121.05

**Rhineland – 123.725 133.65**

Rochester – 132.35

Saginaw – 118.05

Sawyer – 119.1

**Swinns Valley – 135.7 134.85**

Traverse City – 132.9

**White Cloud – 132.55 120.85**

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

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**CLEVELAND AFSS**

AKRON VOR/DME 114.4T 122.1R  
BELLAIRE VOR/DME 117.1T 122.1R  
BRIGGS VOR/DME 112.4T 122.1R  
CHARDON VOR/DME 112.7T 122.1R  
CLEVELAND RCO 122.1R 122.2 **122.35**  
DRYER VOR/DME 113.6T 122.1R  
FINDLAY VORTAC 108.2T 122.1R 122.2 **122.65**  
JEFFERSON VOR/DME 115.2T 122.1R  
MANSFIELD VORTAC 108.8T 122.1R **122.6**  
NEWCOMERSTOWN VOR/DME 111.8T 122.1R  
SANDUSKY VOR/DME 109.2T 122.1R  
WATERVILLE VOR/DME 113.1T 122.1R  
YOUNGSTOWN VORTAC 109.0T 122.1R 122.2  
ZANESVILLE VOR/DME 111.4T 122.1R 122.2 **122.5**

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**DAYTON AFSS**

ALLEN COUNTY VOR 108.4T 122.1R  
ATHENS-ALBANY RCO 122.25  
APPLETON VORTAC 116.7T 122.1R  
CINCINNATI RCO **122.4**  
COLUMBUS RCO 122.2 **122.3**  
DAYTON RCO 114.5T 122.1R 122.2 **122.55**  
DAYTON VOR/DME 114.5T 122.1R  
GALLIPOLIS RCO 121.65  
HILLSBORO RCO 122.2  
ROSEWOOD VORTAC 117.5T 122.1R  
YELLOW BUD VOR 112.5T 122.1R

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**GREEN BAY AFSS**

ASHLAND RCO 122.25  
BLACK RIVER FALLS RCO 122.5  
CHIPPEWA RCO 123.65  
DELLS VORTAC 117.0T 122.1R  
EAU CLAIRE RCO 122.65 123.6  
ESCANABA RCO 122.3  
FALLS VOR/DME 110.0T 122.1R  
FOND DU LAC RCO 122.5  
GREEN BAY RCO 122.2 122.55  
HANCOCK RCO **122.525** 123.65  
HAYWARD VOR/DME 113.4T 122.1R  
IRON MOUNTAIN VOR/DME 111.2T 122.1R  
IRONWOOD RCO 122.3  
JANESVILLE VOR/DME 114.3T 122.1R  
KENOSHA VOR/DME 109.2T 123.6R  
LA CROSSE RCO 122.2 122.35  
LONE ROCK RCO 122.35  
MACKINAC ISLAND RCO 122.35  
MADISON RCO 122.6  
MARSHFIELD RCO 122.55  
MANITOWOC VOR/DME 111.0T 122.1R  
MENOMINEE VOR/DME 109.6T 122.1R  
MILWAUKEE RCO 122.4 122.65  
MOSINEE RCO **122.525**  
NEWBERRY RCO 122.4  
OSHKOSH VORTAC 111.8T 122.1R 122.25  
PHILLIPS RCO 122.05  
PLATTEVILLE RCO 122.5  
PRAIRIE DU CHIEN RCO 122.25  
RHINELANDER VORTAC 109.2T 122.1R  
RICE LAKE RCO 122.3  
SAULT STE MARIE VOR/DME 112.2T 122.1R  
SAWYER RCO 123.6  
SCHOOLCRAFT COUNTY RCO 122.25  
SIREN VOR/DME 109.4T 122.1R  
STEVENS POINT VORTAC 110.6T 122.1R  
TIMMERMAN VOR/DME 112.5T 123.6R  
WAUSAU RCO 122.4  
WEST BEND VOR 109.8T 122.1R  
WISCONSIN RAPIDS RCO 122.45  
WOODRUFF RCO 122.6

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**KANKAKEE AFSS**

BLOOMINGTON VOR/DME 108.2T 123.6R  
BRADFORD VORTAC 114.7T 122.05R 123.6  
CHICAGO HEIGHTS VORTAC 114.2T 122.1R  
CHICAGO MEIGS RCO **122.15**  
DUPAGE VOR/DME 108.4T 122.1R 122.3  
GALESBURG VOR/DME 109.8T 122.1R  
JOLIET VORTAC 112.3T 122.1R 122.5  
KANKAKEE VOR/DME 111.6T 122.1R 122.2  
MACOMB RCO **122.15**  
MOLINE RCO **122.6**  
NEW LENOX RCO 122.5  
PEORIA RCO 122.35  
PEOTONE VORTAC 113.2T 122.05R  
POLO VOR/DME 111.2T 122.1R  
PONTIAC VOR/DME 109.6T 122.1R  
ROCKFORD VOR/DME 110.8T 122.1R 122.65  
WAUKEGAN RCO 122.55

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**LANSING AFSS**

ALPENA VORTAC 108.8T 122.1R  
BAD AXE RCO 122.65  
BATTLE CREEK RCO 122.2  
BARRIEN SPRINGS RCO 121.625  
CARLETON VORTAC 115.7T 122.1R  
DETROIT RCO 122.2 **122.55**  
FLINT RCO 122.3  
GAYLORD RCO 122.55  
GRAND RAPIDS VOR/DME 115.95T 122.1R  
JACKSON RCO 122.2  
KALAMAZOO VOR/DME 109.0T 122.1R  
KEELER VOR/DME 116.6T 122.1R  
LANSING RCO 122.2  
LITCHFIELD VOR/DME 111.2T 122.1R  
LUDINGTON RCO 122.45  
MANISTEE VOR/DME 111.4T 122.1R  
MOUNT PLEASANT RCO 122.6  
MUSKEGON RCO 122.5  
PECK VORTAC 114.0T 122.1R  
PELLSTON RCO 122.2 122.3 123.6  
PONTIAC VORTAC 111.0T 122.15R  
PULLMAN VOR/DME 112.1T 122.1R  
SAGINAW RCO 122.2 122.4  
SALEM VORTAC 114.3T 122.1R  
TRAVERSE CITY RCO 122.2 **122.65**  
WEST BRANCH RCO 122.35  
WHITE CLOUD VORTAC 117.6T 122.1R

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**SAINT LOUIS AFSS** 122.2 122.45

BIBLE GROVE VORTAC 109.0T 122.05R  
CENTRALIA VORTAC 115.0T 122.1R  
CHAMPAIGN VORTAC 110.0T 122.1R 122.45  
DANVILLE VORTAC 111.0T 122.1R  
DECATUR VORTAC 117.2T 122.1R 122.3  
MARION VOR/DME 110.4T 122.1R  
MATTOON VOR/DME 109.4T 123.6R  
MOUNT VERNON VOR/DME 113.8T 122.05R  
QUINCY VORTAC 113.6T 122.1R 122.5  
ROBERTS VOR/DME 116.8T 122.1R  
SAINT LOUIS REGIONAL RCO 122.05  
SAMSVILLE VOR/DME 116.6T 122.1R  
SPINNER VORTAC 112.7T 122.25  
VANDALIA VORTAC 114.3T 122.1R

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**TERRE HAUTE AFSS**

CROWNPOINT RCO 123.65  
EVANSVILLE RCO 122.65  
FORT WAYNE RCO 122.2 122.45  
GOSHEN VORTAC 113.7T 122.1R  
HOOSIER VORTAC 110.2T 122.1R  
INDIANAPOLIS RCO 122.55  
KNOX VOR/DME 115.6T 122.1R  
KOKOMO VORTAC 113.5T 122.1R  
LAFAYETTE RCO 122.2 122.35  
MUNCIE VOR/DME 114.4T 122.1R  
NABB VORTAC 112.4T 122.1R  
OSGOOD RCO 122.25  
RICHMOND VORTAC 110.6T 122.1R  
SHELBYVILLE VORTAC 112.0T 122.1R  
SOUTH BEND RCO 122.6  
TERRE HAUTE RCO **122.65**  
WASHINGTON RCO 122.2

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**FLIGHT STANDARDS DISTRICT OFFICES (FSDO)**

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

**ILLINOIS**

DuPage Airport  
31W775 North Avenue  
West Chicago, Illinois 60185-1056  
Telephone: 630-443-3100

Capital Airport  
1250 North Airport Drive, Suite 1  
Springfield, Illinois 62707-8417  
Telephone: 217-744-1910

9950 West Lawrence Ave., Suite 400  
Schiller Park, Illinois 60176  
Telephone: 847-928-8000

**INDIANA**

8303 W. Southern Avenue  
Indianapolis, Indiana 46241  
Telephone: 317-487-2400

1843 Commerce Drive, Suite 200  
South Bend, Indiana 46628  
Telephone: 219-245-4600

**MICHIGAN**

3196 Kraft Ave. SE, Suite 103  
Grand Rapids, Michigan 49512  
Telephone: 616-954-6657

Willow Run Airport  
8800 Beck Road  
Belleville, Michigan 48111  
Telephone: 734-487-7222

**OHIO**

Great Northern Technology Park II  
25249 Country Club Blvd.  
North Olmsted, Ohio 44070  
Telephone: 440-686-2001

Lunken Airport Executive Building  
Ground Floor  
4242 Airport Road  
Cincinnati, Ohio 45226  
Telephone: 513-979-6400

Port Columbus International Airport  
2780 Airport Drive, Suite 300  
Columbus, Ohio 43219  
Telephone: 614-255-3120

**WISCONSIN**

General Mitchell Intl Airport  
4915 S. Howell Ave.  
Milwaukee, Wisconsin 53207  
Telephone: 414-486-2920

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## 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 single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.

2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).

3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.

4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.

5. Where more than one route is listed the routes have equal priority for use.

6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.

7. Intersection names are spelled out.

8. Navaid radial 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 GSW031); or an intersection (e.g., GSW081 FITCH).

9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.

10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.

11. (90-170 incl) altitude flight level assignment in hundred of feet.

12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.

13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun .....	1300-2259 local time.
Mon thru Fri .....	0701-2259 local time.
Sat .....	0701-1459 local time.

14. Use current SIDs and STARSS for flight planning.

15. For high altitude routes, the portion of the routes contained in brackets [ ] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

### LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>CHICAGO METRO AREA</b>		
From Midway (MDW) or O'Hare (ORD)		
Atlanta (ATL) .....	EON V171 TTH V243 GQO V333 DALAS ATL .....	
Denver (DEN) .....	SIMMN V172 OBH V219 HCT V8 DVV .....	
Indianapolis (IND) .....	EON V399 KENLA V128 JELLS .....	
Louisville (LOU) .....	EON V171 TTH V243 IJU279 CHERI .....	1100-0300
Memphis (MEM) .....	RBS V429 MWA V67 CNG V11 MIOLA .....	1600-2300
Miami (MIA) .....	EON V171 TTH V243 LGC V321 PZD V159 CTY V7 LAL V157 LBV V529 V35 CURVE .....	1100-0300
Pittsburgh (PIT) .....	GIJ V6 DJB V30 ACO V337 CUTTA .....	1100-0300
San Francisco (SFO) .....	SIMMN V172 PLL V158 DBQ V100 MBW V6 FMG V6 .....	
Tampa (TPA) .....	EON V171 TTH V243 LGC V321 PZD V159 CTY V35 ENDED .....	
	or	
	(GPS or DME/DME-IRU Equipped) EON V171 TTH V243 LGC V321 PZD V159 CTY V35 ENDED .....	
Tulsa (TUL) .....	MZV BRL V63 SGF V14 .....	0000-2359
Washington Natl (DCA) .....	EON V144 ESL V4 MANNE .....	1100-0300

Terminals	Route	Effective Times (UTC)
<b>From Midway (MDW) only</b>		
Des Moines (DSM) .....	SIMMN V172 TNU .....	1100-0300
Detroit Metro-Wayne Co. (DTW) .....	GIJ V10 LFD MIZAR-STAR.....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....	GIJ V10 LFD CRUX-STAR .....	
Windsor (YQG) .....		
Young (DET).....	GIJ ELX V218 LAN SPRTN-STAR.....	
Kansas City (MKC) .....	MZV BRL V10 IRK BQS-STAR.....	1100-0300
Omaha (OMA) .....	SIMMN V172 OVR .....	0000-2359
<b>From O'Hare (ORD) only</b>		
Cleveland (CLE).....	GIJ V6 VWV WAKEM-STAR.....	1100-0300
Des Moines (DSM) .....	SIMMN V172 TNU .....	0000-2359
Detroit Metro-Wayne Co (DTW) .....	PETTY MKG POLAR-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK) .....		
Willow Run (YIP) .....		
Windsor (YQG) .....		
Young (DET).....	MUSKY V100 ELX V218 LAN SPRTN-STAR .....	
Kansas City (MKC) .....	MZV BRL V10 IRK BQS-STAR.....	
Memphis (MEM).....	RBS V429 MWA V67 CNG V11 MIOLA .....	0000-2359
Muskegon (MKG).....	PETTY V216 .....	
Omaha (OMA) .....	SIMMN V172 OVR .....	0000-2359
Saginaw (MBS) .....	PETTY MKG V216 .....	
<b>From O'Hare (ORD) and North Satellite Airports</b>		
Detroit Metro-Wayne Co. (DTW) .....	(150-230 incl) PETTY MKG POLAR-STAR .....	1100-0300
<b>CINCINNATI METRO AREA (CVG, LUK)</b>		
Detroit/Wayne (DTW) .....	DQN MIZAR-STAR .....	1100-0300
	or	
	(RNAV only) HAGOL (RNAV)-DP DQN	
	MIZAR-STAR .....	1100-0300
Detroit Satellites:		
(ARB) .....	DQN CRUX-STAR .....	1100-0300
	or	
	(RNAV only) HAGOL (RNAV)-DP DQN	
	CRUX-STAR .....	1100-0300
(PTK, YIP) .....	(RNAV only) HAGOL (RNAV)-DP DQN	
	CRUX-STAR .....	
	or	
	(all others) DQN CRUX-STAR.....	
(DET, YQG) .....	(RNAV only) HAGOL (RNAV)-DP DQN V275 KLINE	
	VXV VXV064 LYNTN .....	
	or	
	(all others) DQN V275 KLINE VWV VWV064	
	LYNTN .....	
<b>From COVINGTON (CVG) only:</b>		
Atlanta (ATL).....	BLUEGRASS-DP HYK V97 VXV V267 HRS V463	
	WOMAC ATL .....	1100-0300
Chicago (MDW) .....	WHITEWATER-DP LOVEY VHP BVT V97 CGT .....	1100-0300
	or	
	(RNAV only) LOVEY (RNAV)-DP LOVEY VHP BVT	
	V97 CGT .....	1100-0300
Chicago (ORD) .....	(RNAV only) LOVEY (RNAV)-DP LOVEY VHP BVT	
	V97 CGT V7 BEBEE .....	1100-0300
	or	
	(all others) WHITEWATER-DP VHP BVT V97 CGT	
	V7 BEBEE .....	1100-0300
Indianapolis (IND) .....	V128 VHP .....	1100-0300
Knoxville (TYS).....	(RNAV only) KENLNL (RNAV)-DP HYK V97 .....	
	or	
	(all others) BLUEGRASS-DP HYK V97 .....	
Louisville (SDF).....	CVG206 IIU055 IIU .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl-RNAV only) GIPLE (RNAV)-DP YRK	
	V44 JPU V117 WISKE WISKE-STAR .....	1100-0300
	or	

Terminals	Route	Effective Times (UTC)
	(all others, 60–170 incl) RHOMM–DP YRK V44 JPU V117 WISKE WISKE–STAR.....	1100–0300
<b>CLEVELAND METRO AREA (CLE, CGF, BKL, LNN, LPR)</b>		
Baltimore (BWI).....	(90–170 incl) ACO AIR V75 MGW V44 MRB V3 EMI.....	1100–0300
Boston (BOS).....	(60–170 incl) V522 ERI V270 CFB V72 ALB V2 GDM GDM–STAR.....	1100–0300
Buffalo (BUF).....	(60–170 incl) V522 ERI V43 WELLA.....	
Chicago Midway (MDW).....	(60–170 incl) SKY VVV V126 CGT.....	1100–0300
Chicago O'Hare (ORD).....	(60–170 incl) V45 VVV V126 HALIE V340 BEARZ.....	1100–0300
Columbus (CMH).....	(60–170 incl) DJB DJB173 HERAK APE035 APE.....	
Dayton (DAY).....	(60–170 incl) OBRLN–DP ROD.....	
Detroit/Wayne (DTW).....	(60–170 incl) DJB DJB314 GEMNI– STAR.....	
Detroit Satellites:		
Ann Arbor (ARB).....		
Pontiac (PTK).....		
Willow Run (YIP).....		
Windsor (YQG).....		
Young (DET).....	(60–170 incl) DJB LLEE0–STAR.....	1100–0300
Indianapolis (IND).....	(60–170 incl) OBRLN–DP MIE MIE244 CLANG CLANG–STAR.....	
Pittsburgh (PIT).....	(60–170 incl) ACO V337 CUTTA.....	1100–0300
Rochester (ROC).....	(60–170 incl) V522 ERI V14 BUF V2 CLUNG.....	1100–0300
Washington Dulles (IAD).....	(90–170 incl) ACO AIR V75 MGW V144 ESL V4 AML.....	1100–0300
	or	
Washington Natl (DCA).....	(90–170 incl) ACO AIR V75 MGW V44 MRB AML .. (90–170 incl) ACO AIR V75 MGW V144 ESL V4 AML.....	1100–0300
		1100–0300
<b>COLUMBUS (CMH)</b>		
Cleveland (CLE).....	(60–170 incl) V43 TVT KEATN–STAR.....	1100–0300
Pittsburgh (PIT).....	(60–170 incl) APE V12 CTW WISKE–STAR.....	1100–0300
Toledo (TOL).....	V493 VVV.....	1100–0300
<b>DAYTON (DAY)</b>		
Chicago Midway (MDW).....	V55 V422 CGT.....	1100–0300
Chicago O'Hare (ORD).....	V55 FWA V340 BEARZ.....	1100–0300
Cleveland (CLE).....	DQN ABERZ–STAR.....	1100–0300
Detroit Metro–Wayne Co (DTW).....	DQN MIZAR–STAR.....	1100–0300
Detroit Satellites:		
Ann Arbor (ARB).....		
Pontiac (PTK).....		
Willow Run (YIP).....	DQN CRUXX–STAR.....	
Windsor (YQG).....		
Young (DET).....	V275 KLINE VVV VVV064 LYNTN.....	
Washington Dulles (IAD).....	(90–170 incl) ZZV V144 ESL V4 AML.....	1100–0300
	or	
Washington Natl (DCA).....	(90–170 incl) ZZV V14 MGW V44 MRB AML..... (90–170 incl) ZZV V144 ESL V4 AML.....	1100–0300
		1100–0300
<b>DETROIT METRO AREA</b>		
<b>(Detroit Metro–Wayne Co &amp; Satellites)</b>		
Albany (ALB).....	(60–170 incl) TYCOB V116 BFD V72.....	1100–0300
Atlantic City (ACY).....	(60–170 incl) ERRTH–DP CXR YNG V6 SEG V170 MXE V184.....	1100–0300
Boston (BOS).....	(60–170 incl) TYCOB V116 BFD V72 ALB V2 GDM.....	1100–0300
Buffalo (BUF).....	(60–170 incl) TYCOB V90 DKK.....	1100–0300
Chicago Midway (MDW).....	HARWL JXN V116 LEROY GSH CGT.....	1100–0300
Chicago O'Hare (ORD).....	FWA–DP FWA KNOX–STAR.....	
	or	
	FWA–DP FWA WATSON (RNAV)–STAR.....	
	or	
	HARWL JXN V116 ELX V100 DEERE.....	
	or	

PREFERRED IFR ROUTES

357

Terminals	Route	Effective Times (UTC)
Cleveland (CLE).....	GRR MKG V510 FAH BJB OBK .....	
Columbus (CMH).....	MAARS AC0319 HIMEZ HIMEZ-STAR.....	
Fort Wayne (FWA).....	CAVVS VVW FDY V279 GUNNE.....	1100-0300
	(60-170 incl, Props) HARWL JXN V221 .....	1100-0300
	or	
	(60-170 incl, Jets) ANNTS DX0217 FWA071 .....	1100-0300
Indianapolis (IND) .....	HARWL JXN V221 MIE V14 CLANG-STAR.....	1100-0300
Milwaukee (MKE) .....	(60-170 incl) DUNKS V170 PMM V170 PETTY.....	1100-0300
Montreal (CYUL).....	(60-170 incl) TYCOB V116 ERI V270 ELZ V501	
	SYR MSS V203 FRANX FRANX-STAR.....	1100-0300
Pittsburgh (PIT).....	(60-170 incl) ACO CUTTA-STAR.....	1100-0300
Rochester (ROC) .....	(60-170 incl) TYCOB YQG 098 SURLY DKK V14	
	BUF.....	1100-0300
Syracuse (SYR).....	(60-170 incl) TYCOB V116 ERI V14 GEE V84 .....	1100-0300
Washington Natl (DCA).....	(60-170 incl) ACO AIR V75 MGW V144 ESL V4	
	MANNE .....	1100-0300
Westchester Co (HPN) .....	(60-170 incl) TYCOB V116 ERI V270 V433 V157	
	HAARP.....	1100-0300
	or	
	(60-170 incl, props less than 250 kts) TYCOB	
	V116 ERI V270 V433 V123 HAARP .....	1100-0300
<b>FORT WAYNE (FWA)</b>		
Moline (MLI) .....	V144 BDF V156 MZV .....	0000-2359
Rockford (RFD).....	V144 SMARS V128 .....	0000-2359
<b>GREATER PEORIA RGNL (PIA)</b>		
Chicago Midway (MDW).....	PIA PIA056 MOTIF JOT .....	
Chicago O'Hare (ORD).....	PIA PIA035 V10 PLANO .....	
<b>INDIANAPOLIS (IND)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR) .....	(RNAV only/60-170 incl) DQN T000K MFD	
	ABERZ ABERZ-STAR .....	
	or	
	(all others/60-170 incl) DQN MFD MFD048	
	ABERZ ABERZ-STAR .....	
Detroit Metro-Wayne Co (DTW).....	FWA MIZAR-STAR.....	
	FWA CRUX-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK).....		
Willow Run (YIP).....	FWA CRUX-STAR .....	
Windsor (YQG) .....		
Young (DET).....	V275 KLINE VVW VVW051 POOFE .....	
Evansville (EVV).....	V305 .....	
Kansas City (MKC) .....	V50 SPI BQS-STAR .....	0000-2359
Pittsburgh (PIT).....	(60-170 incl) V50 DQN V12 CTW WISKE-STAR .....	1100-0300
Springfield (SGF).....	V11 PXV V190 .....	0000-2359
	or	
	TTH BIB V72 FAM V190 .....	0000-2359
Tulsa (TUL).....	V11 PXV V190 SGF V14 .....	0000-2359
Wichita (ICT).....	TTH BIB V72 ENL V234 EMP V12 .....	0000-2359
<b>MILWAUKEE (MKE)</b>		
Detroit Metro-Wayne Co (DTW).....	(60-170 incl) SQUIB MKG POLAR-STAR.....	
Detroit Satellites:		
Ann Arbor (ARB) .....		
Pontiac (PTK).....		
Willow Run (YIP).....		
Windsor (YQG) .....		
Young (DET).....	GRR LAN SPRTN-STAR.....	
<b>MOLINE (MLI)</b>		
Fort Wayne (FWA) .....	V156 BDF V144 .....	0000-2359
South Bend (SBN) .....	V156 BDF V144 MAPPS V156.....	0000-2359
<b>ROCKFORD (RFD)</b>		
Fort Wayne (FWA).....	V128 SMARS V144 .....	0000-2359
South Bend (SBN) .....	V128 SMARS V144 MAPPS V156.....	0000-2359
<b>SOUTH BEND (SBN)</b>		
Moline (MLI) .....	V156 MAPPS V144 BDF V156 MZV .....	0000-2359
Rockford (RFD).....	V156 MAPPS V144 SMARS V128.....	0000-2359

Terminals	Route	Effective Times (UTC)
<b>SPRINGFIELD (SPI)</b>		
Chicago Midway (MDW) .....	PNT MOTIF-STAR .....	0000-2359
Chicago O'Hare (ORD) .....	PNT V227 PLANO .....	0000-2359
Springfield (SGF) .....	V50 UIN V63 SGF V14 .....	0000-2359
Tulsa (TUL) .....	V50 UIN V63 SGF V14 .....	0000-2359
<b>TERRE HAUTE (HUF)</b>		
Kansas City (MKC) .....	V50 SPI BQS-STAR .....	0000-2359
Springfield (SGF) .....	V7 PXV V190 .....	0000-2359
Tulsa (TUL) .....	V7 PXV V190 SGF V14 .....	0000-2359

### SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

Route	Effective Times (UTC)
Low Altitude IFR single-direction route for traffic overflying ZOB ARTCC landing at ORD: Westbound .....	JXN V116 ELX V100 DEERE .....
Low Altitude IFR single-direction route for traffic overflying ZOB ARTCC landing at ORD: Westbound .....	OXI KNOX-STAR .....

### HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>AKRON (CAK)</b>		
Detroit/Wayne (DTW) .....	DJB DJB314 GEMNI GEMNI-STAR .....	
<b>CHICAGO METRO AREA (ORD, MDW)</b>		
Atlanta (ATL) .....	(RNAV only) GUIDO J73 PXV BNA ERLIN (RNAV)-STAR .....	
	or	
	(all others) GUIDO J73 PXV BNA ROME-STAR .....	
Baltimore (BWI) .....	GIJ J146 J34 DJB J162 MGW EMI-STAR .....	
Birmingham (BHM) .....	EON DNB BNA VUZ .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	ELX CRL J554 JHW J82 ALB GDM GDM-STAR .....	
Bristol/Johnson/Kingsport (TRI) .....	EON DNV VHP J24 FLM HMV .....	
Charleston (CHS) .....	EON DNV VHP J24 FLM .....	
Charleston (CRW) .....	EON DNV VHP J24 FLM HVQ .....	
Charlotte (CLT) .....	EON DNV VHP J24 FLM JOHNS (RNAV)-STAR .....	
Chattanooga (CHA) .....	EON DNV .....	
Cincinnati (CVG) .....	(RNAV only) EON DNV CEGRM (RNAV)-STAR .....	
	or	
	(all others) EON DNV SHELBYVILLE-STAR .....	
Columbia (CAE) .....	EON DNV VHP J24 FLM .....	
Columbus (CMH) .....	GIJ GIJ092036 FWA J178 APE .....	
Dallas/Fort Worth (DFW) .....	RBS STL RZC FSM BYP .....	
Dayton (DAY) .....	GIJ GIJ092036 FWA ROD DQN .....	
Denver (DEN) .....	IOW DSM J10 LBF SAYGE-STAR .....	
	or	
	PLL PLL275065 FOD J94 ONL J114 SNY LANDR-STAR .....	
Detroit/Wayne (DTW) .....	PETTY MKG POLAR-STAR .....	
Evansville (EVV) .....	GUIDO .....	
Fort Lauderdale (FLL) .....	GUIDO J73 SZW J43 PIE FORTL-STAR .....	
	or	
	EON DNV TTH SWAPP ATL J89 HITR PIE FORTL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
Greensboro (GSO) .....	EON DNV VHP J24 FLM .....	
Greer (GSP) .....	EON DNV VHP J24 FLM SOT SUG V185 UNMAN .....	
Harrisburg (MDT) .....	GIJ J146 J34 DJB J518 J152 HAR .....	



PREFERRED IFR ROUTES

359

Terminals	Route	Effective Times (UTC)
Huntsville (HSV).....	EON DNV.....	
Jacksonville (JAX).....	EON DNV TTH SWAPP ATL AMG ALMA-STAR .....	
Kennedy (JFK).....	ELX CRL J554 JHW J70 LVZ LENDY-STAR .....	
Knoxville (TYS).....	EON DNV VHP J24 FLM J43 VXV .....	
La Guardia (LGA).....	GIJ J146 MIP MIP-STAR.....	
Memphis (MEM).....	RBS FAM ARG GQE-STAR .....	
	or	
	GUIDO J73 PXV WLDER-STAR .....	
Miami (MIA).....	GUIDO J73 SZW J43 PIE CYY-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) EON	
	DNV TTH SWAPP ATL SZW SSCOT	
	(RNAV)-STAR .....	
Myrtle Beach (MYR).....	EON DNV VHP J24 FLM .....	
Nashville (BNA).....	EON DNV TTH HEHAW-STAR .....	
Newark (EWR).....	ELX CRL J584 SLT FQM-STAR.....	
Norfolk (ORF).....	EON DNV VHP J24 MOL TERKS-STAR .....	
Oakland (OAK).....	PLL PLL275065 FOD J94 ONL J148 OAL MOD .....	
	or	
	PLL PLL275065 FOD J94 LCU J158 MVA.....	1500-0400
Orlando Exec (ORL) .....	EON DNV TTH BWG GQO ATL J89 OTK	
	LEESE-STAR .....	
Orlando Intl (MCO) .....	EON DNV TTH SWAPP ATL J89 OTK LEESE-STAR..	
Philadelphia (PHL).....	GIJ J146 CXR EWC JST BUNTS-STAR .....	
Phoenix (PHX).....	MZV STJ J18 FTI J19 ZUN BUNTR-STAR .....	1200-0400
	or	
	IOW J192 PWE J64 PUB ALS J102.....	
Pittsburgh (PIT).....	GIJ J146 J34 DJB ACO V337 CUTTA.....	
Pottstown (PTW) .....	GIJ J146 CXR EWC JST .....	
Raleigh-Durham (RDU) .....	EON DNV VHP J24 FLM BKW ROA SBV-STAR .....	
Richmond (RIC).....	EON DNV VHP J24 FLM MOL FAK.....	
Roanoke (ROA) .....	EON DNV VHP J24 FLM .....	
St. Petersburg-Clearwater (PIE) .....	GUIDO J73 SZW DARBS-STAR .....	
San Francisco (SFO).....	PLL PLL275065 FOD J94 FMG ILA PYE.....	1500-0400
San Jose (SJC) .....	PLL PLL275065 FOD J94 FMG HYP-STAR .....	
	or	
	DBQ J94 LCU HYP-STAR .....	1500-0400
Sarasota/Bradenton (SRQ) .....	GUIDO J73 PXV J73 SZW CLAMP-STAR .....	
Tampa (TPA).....	GUIDO J73 PXV J73 SZW DARBS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV	
	J73 SZW FOXX (RNAV)-STAR .....	
Toledo (TOL).....	GIJ J146 PLAIN VVV .....	
Washington Dulles (IAD) .....	GIJ J146 J34 BUCKO-STAR .....	
Washington Natl (DCA) .....	GIJ J146 J34 SHAAR WZRRD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GIJ J146 J34	
	BUCKO ELDEE (RNAV)-STAR.....	
	or	
	GIJ J146 J34 SHAAR ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI)	(all others) EON DNV TTH SWAPP ATL OTK WLACE	
	(RNAV)-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) DENNT DARC	
	DREGS DUMGE SWAPP ATL J89 OTK WLACE	
	(RNAV)-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH	
	IUI J99 VXV J43 WLACE (RNAV)-STAR .....	
	or	
	(all others) ORD EON DNV TTH SWAPP ATL OTK	
	WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	ELX CRL J554 JHW J82 WILET RKA292 RKA	
	SWEDE-STAR .....	
<b>CHICAGO Midway (MDW) only</b>		
Albany (ALB).....	LEWKE GIJ EVOTE NELLS KEEHO JHW J82.....	
Allentown (ABE) .....	LEWKE GIJ J146 FJC.....	

Terminals	Route	Effective Times (UTC)
Atlanta (ATL) .....	CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR .. or CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)-STAR .....	
Baltimore (BWI) .....	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR .....	
Birmingham (BHM) .....	CMSKY CARYN CYBIL PXV .....	
Bristol/Johnson/Kingsport (TRI) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) GUIDO J73 SZW PRRIE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB GARDNER-STAR .....	
Buffalo (BUF) .....	LEWKE GIJ EVOTE NELLS KEEHO DKK .....	
Charleston (CHS, CRW) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Charlotte (CLT) .....	EARND ELANR EMMLY ETAME FLM JOHNS (RNAV)-STAR .....	
Chattanooga (CHA) .....	DENNT DARCY DREGS DONVE BWG .....	
Cincinnati (CVG) .....	DENNT DARCY DNV CEGRM (RNAV)-STAR .....	
	or DENNT DARCY DNV SHB-STAR .....	
Cleveland (CLE) .....	ELX CRL HIMEZ-STAR .....	
	or LEWKE GIJ CRL HIMEZ-STAR .....	
Columbia (CAE) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Columbus (CMH) .....	LEWKE GIJ SEWTO FWA GUNNE-STAR .....	
Dallas/Fort Worth (DFW) .....	ACITO ADELL ARLYN STL RZC FSM BONHAM-STAR .....	
Detroit Metro-Wayne Co (DTW) .....	GIJ LFD MIZAR-STAR .....	
Detroit Metro Area (ARB, PTK, YIP) .....	GIJ LFD CRUX-STAR .....	
Detroit Metro Area (DET, CYQG) .....	GIJ LAN SPRTN-STAR .....	1200-0400
Evansville (EVV) .....	DENNT DARCY DREGS DONVE .....	
Fort Lauderdale (FLL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	or EON DNV TTH IIU J99 VXV J46 AMG TAY JINGL (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
Fort Myers (RSW) .....	CMSKY CARYN CYBIL PXV J73 SZW TYNEE (RNAV)-STAR .....	
	or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW TYNEE (RNAV)-STAR .....	
Greensboro (GSO) .....	EARND ELANR EMMLY ETAME FLM PSK SMOKN-STAR .....	
Greenville-Spartanburg (GSP) .....	EARND ELANR EMMLY ERECO IIU .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	

Terminals	Route	Effective Times (UTC)
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV) .....	DENNT DARCY DREGS DONVE BWG .....	
Islip (ISP) .....	LEWKE GIJ EVOTE NELLE KEEHO JHW J70 STW LENDY .....	
Jacksonville (JAX) .....	DENNT DARCY DREGS DUMGE SWAPP AMG ALMA-STAR .....	
La Guardia (LGA) .....	LEWKE GIJ J146 ETG MILTON-STAR .....	
Memphis (MEM) .....	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR ... or CMSKY CARYN CYBIL PXV WLDER-STAR .....	
Miami (MIA) .....	DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL SZW J86 OTK SSCOT (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IJU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR .....	
	or EON DNV TTH SWAPP ATL SZW J43 PIE CYPRESS-STAR .....	
Minneapolis (MSP) .....	BAE EAU-STAR .....	1200-0400
Manchester (MHT) .....	LEWKE GIJ EVOTE NELLE KEEHO JHW J82 ALB EEN .....	
Nashville (BNA) .....	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR .....	
Newark (EWR) .....	LEWKE GIJ EVOTE NELLE KEEHO J584 SLT FQM WILLIAMSPORT-STAR .....	
New Orleans (MSY) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB RYTHM-STAR .....	
Norfolk (ORF) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
Orlando (MCO/ORL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR .....	
	or DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR .....	1100-0400
Phoenix (PHX) .....	MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR .....	1200-0400
	or MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)-STAR .....	
Philadelphia (PHL) .....	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR .....	
Pittsburgh (PIT) .....	LEWKE GIJ OTENS ANEWA RIEKE DJB ACO CUTTA-STAR .....	
Providence (PVD) .....	LEWKE GIJ EVOTE NELLE KEEHO JHW J82 MEMMS J522 HNK TEDDY .....	
Raleigh/Durham (RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR .....	
Richmond (RIC) .....	EARND ELANR ETAME EMEGE FLM J24 FAK .....	
Rochester (ROC) .....	LEWKE GIJ EVOTE NELLE KEEHO DKK BUF .....	
Saint Petersburg/Clearwater (PIE) .....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR .....	
Sarasota/Bradenton (SRQ) .....	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR .....	
Tampa (TPA) .....	CMSKY CARYN CYBIL PXV J73 SZW FO0XX (RNAV)-STAR .....	
	or	

Terminals	Route
	CMSKY CARYN CYBIL PXV J73 SZW
	DARBS-STAR .....
Teterboro (TEB).....	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ
	WILKES BARRE-STAR .....
Trenton (TTN) .....	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR .....
Washington Dulles (IAD) .....	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR
	MGW MGW121 VERNI ESL ROYIL-STAR .....
	or
	(GPS or DME/DME-IRU equipped) LEWKE GIJ
	OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI
	ESL SHNON (RNAV)-STAR .....
Washington Natl (DCA) .....	(GPS or DME/DME-IRU equipped) GIJ J146 J34
	BUCKO ELDEE (RNAV)-STAR .....
	or
	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAA
	WZRRD-STAR .....
	or
	(GPS or DME/DME-IRU equipped) LEWKE GIJ
	OTENS ANEWA RIEKE DJB J34 SHAA ELDEE
	(RNAV)-STAR .....
White Plains (HPN) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW ITH DNY
	VALRE-STAR .....
Windsor Locks (BDL) .....	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 WILET
	SWEDE-STAR .....
<b>CHICAGO O'Hare (ORD) only</b>	
Akron (CAK).....	MOBLE ADIME OTENS VVW MFD V8 DALTS .....
Albany (ALB).....	EBAKE WISMO POSTS PADDE SVM DKK .....
Allentown (ABE).....	MOBLE ADIME GERBS J146 MIP .....
Andrews AFB (ADW).....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34
	SHAAR WZRRD-STAR.....
Atlanta (ATL) .....	CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR ..
	or
	CMSKY CARYN CYBIL PXV BNA ERLIN
	(RNAV)-STAR .....
Atlantic City (ACY) .....	MOBLE ADIME GERBS J146 CXR EWC JST J152
	HAR SIE .....
Baltimore (BWI) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR
	KEMAN WESTMINSTER-STAR .....
Bedford (BED).....	EBAKE WISMO POSTS PADDE SVM DKK ALB GDM
	V431 LOBBY .....
Birmingham (BHM) .....	CMSKY CARYN CYBIL PXV .....
Boca Raton (BCT).....	(GPS or DME/DME-IRU equipped) GUIDO J73
	SZW PRRIE (RNAV)-STAR .....
	or
	(GPS or DME/DME-IRU equipped) EON DNV TTH
	SWAPP ATL J89 PRRIE (RNAV)-STAR.....
	or
	(GPS or DME/DME-IRU equipped) DENNT DARCY
	DREGS DUMGE SWAPP ATL J89 OTK PRRIE
	(RNAV)-STAR .....
Boston (BOS) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB
	GARDNER-STAR.....
Bristol/Johnson/Kingsport (TRI) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....
Buffalo (BUF) .....	DUFEE ELX HAACK DOXXY SOSIC COHOW DKK .....
Burlington (BTV).....	EBAKE WISMO POSTS PADDE SVM DKK SYR J29
	LAGGS .....
Charleston (CHS, CRW).....	EARND ELANR EMMLY ETAME EMEGE FLM .....
Charlotte (CLT) .....	EARND ELANR EMMLY ETAME FLM JOHNS
	(RNAV)-STAR .....
Chattanooga (CHA).....	DENNT DARCY DREGS DONVE BWG .....
Cincinnati (CVG).....	DENNT DARCY DNV CEGRM (RNAV)-STAR .....
	or
	DENNT DARCY DNV SHELBYVILLE-STAR .....
Cleveland (CLE) .....	DUFEE ELX HIMEZ-STAR .....
Columbia (CAE).....	EARND ELANR EMMLY ETAME EMEGE FLM .....
Columbus (CMH).....	MOBLE ADIME SEWTO FWA GUNNE-STAR .....

Terminals	Route	Effective Times (UTC)
Dallas/Fort Worth (DFW) .....	ACIO ADELL ARLYN STL RZC FSM BONHAM-STAR .....	
Denver (DEN).....	IOW DSM J10 LBF SAYGE-STAR .....	
	or	
	DBQ J94 ONL J114 SNY LANDR-STAR .....	
Detroit Metro-Wayne Co (DTW) .....	PETTY MKG POLAR-STAR .....	
Detroit Metro Area (DET, CYQG, PTK, YIP, ARB) .....		
Evansville (EVV) .....	PETTY GRR LAN SPRTN-STAR .....	1200-0400
Fort Lauderdale (FLL).....	DENNT DARCY DREGS DONVE.....	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89	
	OTK JINGL (RNAV)-STAR .....	
	or	
	DENNT DARCY DREGS SWAPP ATL J89 OTK JINGL (RNAV)-STAR .....	
	(GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMU TAY JINGL (RNAV)-STAR ..	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) CMSKY CARYN CYBIL PXV J73 SZW TYNEE (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW TYNEE (RNAV)-STAR .....	
Greensboro (GSO) .....	EARND ELANR EMMLY ETAME EMEGE FLM PSK SMOKN-STAR .....	
Greenville/Spartanburg (GSP).....	EARND ELANR EMMLY ERECO IIU .....	
Harrisburg (MDT).....	MOBLE ADIME GERBS J146 CXR EWC HAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV).....	DENNT DARCY DREGS DONVE BWG .....	
Hyannis (HYA).....	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LJV .....	
Indianapolis (IND) .....	EARND ELANR EMMLY JAKKS .....	
Jacksonville (JAX).....	DENNT DARCY DREGS DUMGE SWAPP ATL AMG ALMA-STAR .....	
Kennedy (JFK).....	DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ LENDY-STAR .....	
Knoxville (TYS).....	EARND ELANR EMMLY ETAME EMEGE J43 VXV ...	
La Guardia (LGA).....	MOBLE ADIME GERBS J146 ETG MILTON-STAR ...	
Louisville (LOU) .....	DENNT DARCY DREGS DUMGE CHERI .....	
Manchester (MHT).....	EBAKE WISMO POSTS PADDE SVM DKK ALB EEN .	
Memphis (MEM).....	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR ...	
	or	
	CMSKY CARYN CYBIL PXV WLDER-STAR .....	
Miami (MIA).....	DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR.....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 SSCOT (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	EON DNV TTH SWAPP ATL SZW J43 PIE CY-STAR .....	
Minneapolis (MSP) .....	PLL PLL275065 ALO KASPR-STAR .....	1200-0400
Nashville (BNA) .....	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR .....	
Niagara Falls (IAG) .....	EBAKE WISMO POSTS PADDE SVM YXU .....	
Newark (EWR) .....	DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584 SLT FQM WILLIAMSPORT-STAR .....	
New Orleans (MSY) .....	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB RYTHM-STAR .....	
	or	
Norfolk (ORF) .....	EARND ELANR EMMLY ERECO IIU RYANS .....	
	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR .....	
Newburgh (SWF) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY V483 FILPS .....	
New Haven (HVN) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW RKA DENNA-STAR .....	
Orlando (MCO/ORL) .....	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR .....	
	or	
	DENNT DARCY DREGS DUMGE SWAPP ATL LEESE-STAR .....	
	or	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR .....	1100-0400
Philadelphia (PHL) .....	MOBLE ADIME GERBS J146 CXR EWC JST BUNTS-STAR .....	
Phoenix (PHX) .....	MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR .....	1200-0400
	or	
	MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)-STAR .....	
Pittsburgh (PIT) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB ACO CUTTA-STAR .....	
Portland (PWM) .....	EBAKE WISMO POSTS PADDE SVM DKK ALB CON PARSO .....	
	or	
Providence (PVD) .....	MOBLE ADIME GERBS J146 CXR EWC JST SIE .....	
	DUFEE ELX HAAKK DOXXY SOSIC JHW J82 MEMMS J522 HNK TEDDY-STAR .....	
Raleigh/Durham (RDU) .....	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR .....	
Richmond (RIC) .....	EARND ELANR EMMLY ETAME EMEGE FLM J24 FAK .....	
Roanoke (ROA) .....	EARND ELANR EMMLY ETAME EMEGE FLM .....	
Rochester (ROC) .....	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK BUF .....	
Saint Petersburg/Clearwater (PIE) .....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR .....	
San Juan (TJSJ) .....	MOBLE ADIME GERBS J146 CXR EWC JST SIE .....	
Sarasota/Bradenton (SRQ) .....	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR .....	
Syracuse (SYR) .....	EBAKE WISMO POSTS PADDE SVM DKK .....	
Tampa (TPA) .....	CMSKY CARYN CYBIL PXV J73 SZW DARBS-STAR .....	
	or	
	CMSKY CARYN CYBIL PXV J73 SZW FO0XX (RNAV)-STAR .....	
Washington Dulles (IAD) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 BUCKO BUCKO-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR..... or (GPS OR DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR.....	
White Plains (HPN) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY VALRE-STAR .....	
Wilkes-Barre/Scranton (AVP) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW J106 LVZ ..	
Windsor Locks (BDL) .....	DUFEE ELX HAAKK DOXXY SOSIC JHW J82 WILET SWEDE-STAR .....	
<b>CINCINNATI (CVG)</b>		
Albany (ALB) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB .....	
Allentown (ABE) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY JST HAR.....	
Atlanta (ATL) .....	(RNAV only) CHCLL-DP BWG ERLIN (RNAV)-STAR . or (all others) BLUEGRASS-DP BWG ROME-STAR..... (above FL220-GPS or DME/DME-IRU equipped) GIPLE (RNAV)-DP YRK HVQ J8 CSN RAVNN (RNAV)-STAR..... or (above FL220-all others) RHOMM-DP YPK HVQ J8 CSN OTT-STAR .....	
Baltimore (BWI) .....	or (above FL230-GPS or DME/DME-IRU equipped) GIPLE (RNAV)-DP HVQ J8 CSN RAVNN (RNAV)-STAR..... or (above FL230-all others) RHOMM-DP HVQ J8 CSN NOTTINGHAM-STAR .....	
Birmingham (BHM) .....	(RNAV only) SILKS TRFWA LVT SYI VUZ .....	
Boca Raton (BCT).....	or (all others) BLUEGRASS-DP TRFWA LVT SYI VUZ.. (GPS or DME/DME-IRU equipped) KENLN-DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)-STAR..... or (GPS or DME/DME-IRU equipped) KENLN-DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR.	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB HNK ALB GDM GARDNER-STAR.....	
Chicago (ORD) .....	(advanced NAV only) JBNCH (RNAV)-DP MIE MZZ ROYKO (RNAV)-STAR .....	
	or (Non-advanced RNAV only) DQN FWA KNOX-STAR..... or (RNAV only) HAGOL (RNAV)-DP DQN FWA WATSN (RNAV)-STAR.....	
Dallas/Fort Worth (DFW) .....	(RNAV only) CHCLL IIU PXV J131 LIT BYP..... or (all others) BLUEGRASS-DP IIU PXV J131 LIT BYP .....	
Fort Lauderdale (FLL).....	(GPS or DME/DME-IRU equipped) SILKS-DP TRFWA NOTWO OTK JINGL (RNAV)-STAR .....	
	or (all others) BLUEGRASS-DP HYK VXV J43 ATL J89 HITTR J75 FORTL-STAR .....	
Fort Myers (FMY).....	(Turbojets-GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 SZW TYNEE (RNAV)-STAR..... or (all others-Turbojets) BLUEGRASS-DP HYK VXV J43 SZW PIE JOSFF-STAR .....	

Terminals	Route	Effective Times (UTC)
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	1100-0300
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 SZW PIE JOSFF-STAR .....	1100-0300
Harrisburg (MDT) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY JST HAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) CHCLL (RNAV)-DP BWG J6 LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) BLUEGRASS-DP BWG J6 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Jackson (JAN) .....	(RNAV only) SILKS TRFWA LVT SYI VUZ JAN .....	
	or	
	(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ JAN .....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB MILTON-STAR .....	1000-1800
Manchester (MHT) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB ALB EEN .....	
Marco Island (MKY) .....	(RNAV only) KENLN (RNAV)-DP HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) SILKS-DP TRFWA NOTWO SZW SSCOT (RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR .....	
Mobile (MOB) .....	(RNAV only) SILKS (RNAV)-DP TRFWA LVT SYI VUZ SJI .....	
	or	
	(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ SJI .....	
Naples (APF) .....	(GPS required) BLUEGRASS-DP HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Newark (EWR) .....	(RNAV only) BNGLE (RNAV)-DP DJB J29 J584 SLT WILLIAMSPORT-STAR .....	
	or	
	(all others) CVG033 RIKLE DJB J29 J584 SLT FQM-STAR .....	
Newburg (SWF) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 HNK DNY V483 FILPS .....	
New Orleans (MSY) .....	(RNAV only) SILKS (RNAV)-DP TRFWA LVT SYI VUZ J22 MEI RYTHM-STAR .....	
	or	
	(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI RYTHM-STAR .....	
Orlando (MCO) .....	(GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR .....	1100-0400
	or	
	(all others) BLUEGRASS-DP HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
Orlando (ORL) .....	(GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR .....	1100-0400
	or	



Terminals	Route	Effective Times (UTC)
Philadelphia (PHL) .....	(all others) BLUEGRASS-DP HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
Phoenix (PHX) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY JST BOJID (RNAV)-STAR .....	
Portland (PWM) .....	(Turbojets-all others) BLUEGRASS-DP IIU PXV J78 IRW J74 CNX ZUN BUNTR-STAR .....	
Providence (PVD) .....	or (Turbojets-all others) BLUEGRASS-DP IIU PXV J78 ZUN BUNTR-STAR .....	
Sarasota/Bradenton (SRQ) .....	or (RNAV only-Turbojets) CHCLL (RNAV)-DP IIU PXV J78 ZUN EAGUL (RNAV)-STAR .....	
Tampa (TPA) .....	or (RNAV only-Turbojets) CHCLL (RNAV)-DP IIU PXV J78 IRW J74 CNX ZUN EAGUL (RNAV)-STAR .....	
Washington (DCA) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 ALB ENE .....	
Washington (IAD) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 HNK TEDDY-STAR .....	
West Palm Beach (PBI) .....	(RNAV only) KENLIN (RNAV)-DP HYK VXV J43 SZW CLAMP-STAR .....	
Wilkes Barre/Scranton (AVP) .....	or (all others) BLUEGRASS-DP HYK VXV J43 SZW CLAMP-STAR .....	
Windsor Locks (BDL) .....	(GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 SZW FOXXX (RNAV)-STAR .....	
<b>From LUNKEN (LUK) only:</b>	or (all others) BLUEGRASS-DP HYK VXV J43 SZW DARBS-STAR .....	
Albany (ALB) .....	(RNAV only) RHOMM-DP HVQ ELDEE (RNAV)-STAR .....	
Boston (BOS) .....	or (all others) GIPLE (RNAV)-DP HVQ WZRRD-STAR.. (RNAV only) GIPLE (RNAV)-DP HVQ SHNON (RNAV)-STAR .....	
La Guardia (LGA) .....	or (all others) RHOMM-DP HVQ ROYIL-STAR .....	
Manchester (MHT) .....	(GPS or DME/DME-IRU equipped) SILKS (RNAV)-DP TRFWA NOTWO OTK WLACE (RNAV)-STAR .....	
Newburgh (SWF) .....	or (GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE (RNAV)-STAR .....	
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB LVZ..... (RNAV only) ROCKT (RNAV)-DP AHTIY RKA SWEDE SWEDE-STAR .....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB.....	1000-1800
Portland (PWM) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR .....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB MILTON-STAR .....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB ALB EEN.....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK DNV V483 FILPS .....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST BUNTS-STAR .....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR .....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE.....	
	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ.....	

Terminals	Route
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB RKA SWEDE SWEDE-STAR.....
<b>CLEVELAND METRO (CLE, CGF, BKL, LNN, LPR)</b>	
Atlanta (ATL) .....	(RNAV only) DJB DJB173 HERAK APE035 APE J186 SOT ODF FLCON (RNAV)-STAR .....
	or
	(all others) DJB DJB173 HERAK APE035 APE J186 SOT ODF WHINZ-STAR .....
Battle Creek (BTL) .....	AMRST-DP VVW .....
Birmingham (BHM) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY PRRIE (RNAV)-STAR .....
Charleston (CHS) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Charleston (CRW) .....	DJB DJB173 HERAK APE035 APE .....
Charlotte (CLT) .....	DJB DJB173 HERAK APE035 APE HVQ HMV JOHNS (RNAV)-STAR .....
Chicago Midway (MDW) .....	AMRST-DP VVW GSH GSH-STAR .....
Chicago O'Hare (ORD) .....	AMRST-DP VVW ZANLA WATSON (RNAV)-STAR .....
	or
	AMRST-DP VVW OXI KNOX-STAR .....
Chicago Rockford (RFD) .....	ALPHE-DP ALPHE J70 PMM .....
Cincinnati (CVG) .....	(RNAV only) DJB HERAK APE TIGRR (RNAV)-STAR .....
	or
	(all others) DJB DJB173 HERAK APE035 APE CINCE-STAR .....
Dallas/Fort Worth (DFW) .....	OBRLN-DP RID RID234/40 PXV LIT BONHAM-STAR .....
Denver (DEN) .....	AMRST-DP VVW GSH .....
Elkhart (EKM) .....	AMRST-DP VVW GSH .....
Fort Lauderdale (FLL) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE FORTL-STAR .....
	or
	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 JINGL (RNAV)-STAR .....
Fort Myers (FMY) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR .....
Fort Myers (RSW) .....	(GPS OR DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR .....
Fort Wayne (FWA) .....	OBRLN-DP FWA .....
Grand Rapids (GRR) .....	(RNAV only) ALPHE-DP ALPHE .....
Greensboro (GSO) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) OBRLN-DP RID RID234/40 PXV LIT J180 SWB ROKIT (RNAV)-STAR .....
	or
	(Non-advanced NAV only) OBRLN-DP RID RID234/40 PXV LIT J180 SWB DAS-STAR .....
Houston (IAH) .....	(Non-advanced NAV only) OBRLN-DP RID RID234/40 PXV LIT J80 SWB DAS-STAR .....
	or
	(Turbojets-GPS or DME/DME-IRU equipped) OBRLN-DP RID234/40 PXV LIT J180 SWB TXMEX (RNAV)-STAR .....
Jacksonville (JAX) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85 AMG ALM-STAR .....
Kalamazoo/Battle Creek (AZO) .....	AMRST-DP VVW .....
Kansas City (MCI) .....	OBLRN-DP VHP J80 SPI BRAYMER-STAR .....
Kennedy (JFK) .....	FAILS V522 ERI JHW J70 LVZ LENDY-STAR .....
La Guardia (LGA) .....	V522 FAILS V188 JFN ETG MIP-STAR .....
Knoxville (TYS) .....	DJB DJB173 HERAK APE035 APE J186 BULEY .....
Las Vegas (LAS) .....	OBRLN-DP VHP STL .....
	or

PREFERRED IFR ROUTES

369

Terminals	Route	Effective Times (UTC)
Lewisburg (LWB) .....	AMRST-DP VVW GSH .....	
Lexington (LEX) .....	DJB DJB173 HERAK APE035 APE .....	
Little Rock (LIT) .....	OBRLN-DP ROD CVG CLEGG-STAR .....	
Los Angeles (LAX) .....	OBLRN-DP RID RID234/40 PXV .....	
Louisville (SDF) .....	AMRST-DP VVW GSH .....	
Minneapolis (MSP) .....	OBRLN-DP ROD CVG REDSTONE-STAR .....	
	(RNAV only) ALPHE-DP ALPHE J70 PMM BAE	
	EAU-STAR .....	
	or	
	AMRST-DP CRL J34 BAE EAU-STAR .....	
Madison (MSN) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM .....	
Marco Island (MKY) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
	PIKKR (RNAV)-STAR .....	
	or	
	DJB DJB200 APE021 APE J186 J91 ATL J89 J75	
	TEPEE ZEILR-STAR .....	
Memphis (MEM) .....	OBRLN-DP RID RID234/40 PXV WLDER-STAR ....	
Miami (MIA) .....	DJB DJB173 HERAK APE035 APE J83 SPA J85	
	TAY J75 HITTR PIE CYPRESS-STAR .....	
	or	
	(/E/G/R/J/L/Q only) DJB DJB173 HERAK	
	APE035 APE J83 SPA J85 TAY J75 RSW DEEDS	
	(RNAV)-STAR .....	
Milwaukee (MKE) .....	AMRST-DP CRL CRL316/75 MKG V2 SUDDS .....	
Myrtle Beach (MYR) .....	DJB DJB173 HERAK APE035 APE .....	
Naples (APF) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
	PIKKR (RNAV)-STAR .....	
Nashville (BNA) .....	OBRLN-DP IJU GUITR-STAR .....	
Newark (EWR) .....	V522 J584 SLT FQM-STAR .....	
New Orleans (MSY) .....	OBRLN-DP RID IJU MCB RYTHM-STAR .....	
Orlando (ORL) .....	(RADAR and DME required) DJB DJB200 APE021	
	APE J83 SPA CAE SAV OMN CORLL-STAR .....	1100-0400
Orlando (MCO) .....	DJB DJB173 HERAK APE035 APE J83 SPA CAE	
	SAV OMN BITHO-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J83 SPA CAE SAV OMN	
	CWRLD (RNAV)-STAR .....	1100-0400
Palwaukee (PWK) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM OBK .....	
Philadelphia (PHL) .....	ACO ACO145 J518 J152 HAR V210 BUNTS .....	
Phoenix (PHX) .....	OBRLN-DP VHP STL .....	
	or	
	AMRST-DP VVW GSH .....	
Raleigh/Durham (RDU) .....	DJB DJB173 HERAK APE035 APE HVQ BKW ROA	
	SOUTH- BOSTON-STAR .....	
San Antonio (SAT) .....	OBRLN-DP RID RID234/40 PXV J131 LIT J101	
	LFK MARCS-STAR .....	
San Francisco (SFO) .....	AMRST-DP VVW GSH .....	
St. Louis (STL) .....	OBRLN-DP VHP VANDALIA-STAR .....	
Sarasota/Bradenton (SRQ) .....	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
	CLAMP-STAR .....	
Seattle/Tacoma (SEA) .....	(RNAV only) ALPHE-DP ALPHE J70 PMM .....	
	or	
	(RNAV only) ALPHE-DP ALPHE J34 BAE .....	
South Bend (SBN) .....	AMRST-DP VVW GSH .....	
Tampa (TPA) .....	DJB DJB173 HERAK APE035 APE J186 J91 VXV	
	J43 SZW DARBS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J186 J91 VXV J43 SZW	
	FOXXX (RNAV)-STAR .....	
Toledo (TOL) .....	AMRST-DP VVW .....	
Toronto (CYYZ) .....	FAILS V443 DOGGS YXU V098 YWT YWT-STAR ....	
West Chicago/Dupage (DPA) .....	AMRST-DP VVW EON JOT .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J83 SPA J85 TAY WLACE ...	
	or	

Terminals	Route	Effective Times (UTC)
	(all others) DJB DJB173 HERAK APE035 APE J83 SPA TAY WLACE (RNAV)-STAR .....	
Wilmington (ILN) .....	DJB DJB173 HERAK APE035 APE .....	
<b>COLUMBUS (CMH)</b>		
Dallas/Fort Worth (DFW) .....	DQN CVG PXV J131 LIT BYP .....	
Detroit/Wayne (DTW) .....	DJB DJB314 GEMNI GEMNI-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
La Guardia (LGA) .....	HLG ETG MIP-STAR .....	
Miami (MIA) .....	J83 SPA J85 TAY J75 HITTR PIE CYY-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J83 SPA J85 TAY SSCOT (RNAV)-STAR .....	
Newark (EWR) .....	DJB J29 J584 SLT FQM-STAR .....	
Washington (IAD) .....	APE APE100 AIR280 AIR J34 SHAAR ROYIL-STAR or (GPS or DME/DME-IRU equipped) APE APE100 AIR280 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington (DCA) .....	APE APE100 AIR280 AIR J34 SHAAR WZRRD-STAR .....	
	or APE APE100 AIR280 AIR J34 SHAAR ELDEE (RNAV)-STAR .....	
<b>DAYTON (DAY)</b>		
Atlanta (ATL) .....	(RNAV only) IIU BWG ERLIN (RNAV)-STAR .....	
	or IIU BWG ROME-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY PRRIE (RNAV)-STAR .....	1100-0300
Charlotte (CLT) .....	CVG FLM JOHNS (RNAV)-STAR .....	0700-2300
Dallas/Fort Worth (DFW) .....	J29 PXV J131 LIT BYP .....	
Fort Lauderdale (FLL) .....	V47 CVG HYK VXV J43 ATL J89 HITTR PIE FORTL-STAR .....	
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 ATL J89 OTK JINGL (RNAV)-STAR .....	
Fort Myers (FMY) .....	V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR .....	1100-0300
Houston (HOU) .....	GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
La Guardia (LGA) .....	J29 J146 ETG MIP-STAR .....	
Marco Island (MKY) .....	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR ..	
Miami (MIA) .....	V47 CVG HYK VXV J43 ATL SZW J43 PIE CYY-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 ATL SZW SSCOT (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
Naples (APF).....	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR..	
Orlando Executive (ORL).....	V47 CVG HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR.....	1100-0400
Orlando Intl (MCO).....	V47 CVG HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR .....	1100-0400
Sarasota/Bradenton (SRQ).....	V47 CVG HYK VXV J43 SZW CLAMP-STAR .....	
Tampa (TPA).....	V47 CVG HYK VXV J43 SZW DARBS-STAR.....	
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 SZW FOXXX (RNAV)-STAR .....	
West Palm Beach (PBI).....	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY WLACE .....	1100-0300
	or V47 CVG HYK VXV J99 IRQ TAY WLACE (RNAV)-STAR.....	1100-0300
<b>DETROIT METRO AREA (DTW, DET, YQG, PTK, YIP, ARB)</b>		
Albany (ALB).....	MOONN-DP JHW .....	
Allentown (ABE).....	ERRTH-DP ETG .....	
Atlanta (ATL).....	RICHMOND-DP RID IIU BWG ROME-STAR..... or (RNAV only) RICHMOND-DP RID IIU BWG ERLIN (RNAV)-STAR.....	
Atlantic City (ACY).....	ERRTH-DP CXR EWC JST J152 HAR SIE .....	
Baltimore (BWI).....	ACO AIR AIR111 KEMAN WESTMINSTER-STAR....	
Bedford (BED).....	MOONN-DP JHW J82 ALB.....	
Binghamton (BGM).....	MOONN-DP JHW .....	
Birmingham (BHM).....	RICHMOND-DP RID IIU.....	
Boston (BOS).....	MOONN-DP JHW J82 ALB GARDNER-STAR .....	
Buffalo (BUF).....	(60-170 incl) MOONN-DP BROKK DKK .....	
Burlington (BTV).....	MOONN-DP J29 JHW LAGGS .....	
Cancun (MMUN).....	RICHMOND-DP RID IIU.....	
Charleston (CHS).....	ROSEWOOD-DP ROD FLM HMV .....	
Charleston (CRW).....	ACO AIR HVQ .....	
	or (Turboprops/Props-at or below FL210) SCORR CHOOT APE HVQ .....	
Charlotte (CLT).....	ROSEWOOD-DP ROD FLM HMV JOHNS (RNAV)-STAR.....	
Chicago Midway (MDW).....	JXN V116 LEROY GSH GSH-STAR .....	
Cincinnati (CVG).....	FDY DEBAR-STAR.....	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR).....	MAARS HIMEZ HIMEZ-STAR .....	
Columbus (CMH).....	SCOOR CHOOT YOGGI GUNNE-STAR.....	
Dallas/Fort Worth (DFW).....	FORT WAYNE-DP FWA RBS STL RZC FSM BONHAM-STAR.....	
Denver (DEN).....	DUNKS J70 PMM J94 ONL J114 SNY LANDR-STAR.....	1100-0359
Elmira (ELM).....	MOONN-DP JHW .....	
Ft. Lauderdale (FLL).....	ROSEWOOD-DP ROD FLM VXV CRG OMN GISSH-STAR .....	
	or ROSEWOOD-DP ROD FLM VXV CRG OMN FISEL (RNAV)-STAR.....	
Fort Myers (FMY & RSW).....	(Turbojets-GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG SHFTY (RNAV)-STAR.....	
Greensboro (GSO).....	AIR EKN ROA HENBY.....	
Greer (GSP).....	ROSEWOOD-DP ROD FLM SOT V185 UNMAN.....	

Terminals	Route	Effective Times (UTC)
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) RID-DP RID PVX J131 LIT J180 SWB ROKIT (RNAV)-STAR..... or (Non-advanced NAV only) RID-DP RID PVX J131 LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	CAVVS VVW ROD J29 PVX J131 LIT J180 CLUBS DAS-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) RID-DP RID PVX J131 LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) RID-DP RID PVX J131 LIT J180 SWB DAS-STAR .....	
Huntsville (HSV).....	RICHMOND-DP RID IIU J39 BNA .....	
Indianapolis (IND) .....	ANNTS DXO217 FWA071 FWA MIE V14 CLANG-STAR .....	
Jacksonville (JAX).....	ROSEWOOD-DP ROD FLM VXV AMG ALMA-STAR ..	
Kennedy (JFK).....	MOONN-DP JHW J70 LVZ LENDY-STAR .....	
La Guardia (LGA).....	ERRTH-DP ETG ETG MILTON-STAR .....	
Lexington (LEX).....	ROSEWOOD-DP ROD CVG CLEGG-STAR .....	
Los Angeles (LAX) .....	DUNKS J70 PMM OBK IOW J60 HEC J64 .....	1100-0300
Louisville (SDF).....	ROSEWOOD-DP ROD CVG REDSTONE-STAR .....	
Manchester (MHT).....	MOONN-DP JHW J82 ALB EEN .....	
Memphis (MEM).....	RICHMOND-DP CAVVS VVW ROD PVX WLDER-STAR .....	
Miami (MIA).....	(RNAV only) ROSEWOOD-DP ROD FLM VXV CRG OMN HILEY (RNAV)-STAR .....	
	or ROSEWOOD-DP ROD FLM VXV CRG OMN ANNEY-STAR .....	
Minneapolis (MSP) .....	LAYNE DX0006 YQG341 J38 GRB EAU-STAR .....	
Montreal (CYUL).....	TYCOB YQG098 J554 JHW J29 SYR ART ART040 J594 MSS FRANX FRANX-STAR .....	1100-0300
Myrtle Beach (MYR).....	ACO AIR EKN RDU .....	
Nashville (BNA).....	RICHMOND-DP RID IIU GUITR-STAR .....	
Newark (EWR).....	ERRTH SLT FQM-STAR .....	
New Orleans (MSY) .....	RICHMOND-DP RID IIU J39 BNA MEI RYTHM-STAR .....	
Niagara Falls (IAG) .....	MOONN-DP BROKK DKK .....	
Norfolk (ORF).....	ACO AIR MOL TERKS-STAR .....	
Norwood (OWD).....	MOONN-DP JHW J82 ALB GDM .....	
Orlando Exec (ORL) .....	CAVVS VVW ROD J43 VXV J99 IRQ J85 AMG LEESE-STAR .....	
	or (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD J43 VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	ROSEWOOD-DP ROD FLM VXV AMG LEESE-STAR ..	
	or (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG BUGGZ (RNAV)-STAR .....	1100-0400
Philadelphia (PHL).....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Pittsburgh (PIT) .....	ACO CUTTA-STAR .....	
Portland (PWM).....	MOONN-DP JHW J82 ALB CAM CON CON061 NEETS .....	
Pottstown (PTW) .....	ERRTH-SID CXR EWC JST .....	
Providence (PVD) .....	MOONN-DP JHW J82 MEMMS J522 HNK TEDDY-STAR .....	
Raleigh/Durham (RDU) .....	ACO AIR EKN ROA SOUTH BOSTON-STAR .....	
Reading (RDG).....	ERRTH-DP ETG .....	
Richmond (RIC).....	ACO AIR MOL FAK .....	
Roanoke (ROA) .....	ACO AIR EKN ROA .....	
	or	

Terminals	Route	Effective Times (UTC)
	(Turboprops/Props/at or below 230) SCORR	
	CHOOT APE ROA .....	
Rochester (ROC) .....	MOONN-DP BROKK DKK .....	
San Antonio (SAT) .....	FORT WAYNE-DP FWA RBS STL RZC MLC ACT	
	MARCS-STAR .....	
	or	
	RICHMOND-DP RID RID234/40 PXV J131 TXK	
	FZT TNV IDU MARCS-STAR .....	
San Francisco (SFO) .....	DUNKS J70 PMM J94 FMG ILA PYE .....	
Sarasota/Bradenton (SRQ) .....	ROSEWOOD-DP ROD FLM VXV AMG TAY LAL .....	
Shreveport (SHV) .....	RICHMOND-DP RID RID234/40 PXV .....	
St. Louis (STL) .....	ANNTS DX0217 FWA071 FWA RBS VLA-STAR .....	
Syracuse (SYR) .....	MOONN-DP JHW .....	
Tampa (TPA) .....	ROSEWOOD-DP ROD FLM VXV AMG TAY	
	LZARD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) ROD-DP ROD	
	FLM VXV AMG TAY DADES (RNAV)-STAR .....	
Teterboro (TEB) .....	MOONN-DP JHW J70 LVZ WILKES BARRE-STAR...	
Toronto (CYYZ) .....	PISTN DX0020 V450 YWT V216 .....	
Trenton (TTN) .....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Washington Dulles (IAD) .....	J42 BKW ROYIL-STAR .....	
	or	
	J42 BKW SHNON (RNAV)-STAR .....	
	or	
	PXV IIU J8 HVQ ROYIL-STAR .....	
	or	
	PXV IIU J8 HVQ SHNON (RNAV)-STAR .....	
Washington Natl (DCA) .....	(all others) ACO AIR J34 BUCKO BUCKO-STAR....	
	or	
	(GPS or DME/DME-IRU equipped) ACO AIR J34	
	BUCKO ELDEE (RNAV)-STAR .....	
Westhampton Beach (FOK) .....	MOONN-DP JHW J70 STW LENDY .....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped)	
	ROSEWOOD-DP ROD FLM VXV CRG OMN	
	TUXXI-STAR .....	
	or	
	ROSEWOOD-DP ROD FLM VXV CRG OMN FRWAY	
	(RNAV)-STAR .....	
White Plains (HPN) .....	MOONN-DP JHW ITH DNY VALRE-STAR .....	
Wilkes-Barre (AVP) .....	MOONN-DP JHW .....	
Wilmington (ILG) .....	ERRTH-DP CXR EWC JST BUNTS-STAR .....	
Windsor Locks (BDL) .....	MOONN-DP JHW J82 WILET SWEDE-STAR .....	
Winston Salem (INT) .....	AIR EKN ROA HENBY .....	
<b>ELKHART (EKM)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR) .....	LFD CRL HIMEZ-STAR .....	
<b>EVANSVILLE (EVV)</b>		
Chicago O' Hare (ORD) .....	(/E/G/R/J/L/Q only) HEVAN MZZ ROYKO	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR .....	0000-2359
<b>FLINT (FNT)</b>		
Atlanta (ATL) .....	(RNAV-only) VVW RID IIU BWG ERLIN	
	(RNAV)-STAR .....	
	or	
	VVW RID IIU BWG ROME-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
<b>FORT WAYNE (FWA)</b>		
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
<b>GRAND RAPIDS (GRR)</b>		
Atlanta (ATL) .....	IIU BWG ROME-STAR .....	
	or	
	(RNAV only) IIU BWG ERLIN (RNAV)-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	

Terminals	Route	Effective Times (UTC)
Cleveland Metro (CLE) (CGF) (BKL) (LNN) (LPR) .....	GRR HIMEZ-STAR .....	
<b>HAMILTON (CYHM)</b>		
Detroit/Wayne Area (DET, YIP, PTK, CYQG) .....	YXU PICES-STAR .....	
<b>INDIANAPOLIS (IND)</b>		
Dallas/Fort Worth (DFW) .....	J24 STL RZC FSM BYP .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
<b>KALAMAZOO/BATTLE CREEK (AZO)</b>		
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	LFD CRL HIMEZ-STAR .....	
<b>LANSING (LAN)</b>		
Atlanta (ATL) .....	(RNAV only) VVW RID IJU BWG ERLIN (RNAV)-STAR .....	
	or	
	VVW RID IJU BWG ROME-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	SVM HIMEZ-STAR .....	
<b>LONDON (CYXU)</b>		
Detroit Metro Area (YIP, PTK, DET, CYQG) .....	YXU PICES-STAR .....	
<b>MADISON (MSN)</b>		
Cleveland Metro Area (CLE, CGF, BKL, LNN, LPR) .....	SQUIB GRR HIMEZ-STAR .....	
<b>MILWAUKEE (MKE)</b>		
Akron (CAK) .....	OBK SAMPL ADIME OTENS VVW MFD V8 DALTS ...	
Albany (ALB) .....	SQUIB MKG ECK YXU BUF .....	
Andrews AFB (ADW) .....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR .....	
Baltimore (BWI) .....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR .....	
Boca Raton .....	(GPS or DME/DME-IRU equipped) OBK J73 SZW PRRIE (RNAV)-STAR .....	
Bedford (BED) .....	SQUIB MKG ECK YXU BUF ALB GDM V431 LOBBY	
Boston (BOS) .....	SQUIB MKG ECK YXU BUF ALB GARDNER-STAR ...	
Buffalo (BUF) .....	SQUIB MKG ECK YXU	
Burlington (BTV) .....	SQUIB MKG ECK YXU BUF SYR J29 LAGGS .....	
Cleveland Metro Area (CLE) .....	SQUIB LAN SVM HIMEZ-STAR .....	
Detroit/Wayne (DTW) .....	BAE POLAR-STAR .....	
Detroit Metro Area (YIP) .....	SQUIB LAN SPRTN-STAR .....	
Flint (FNT) .....	SQUIB .....	
Fort Lauderdale (FLL) .....	OBK J73 SZW JINGL (RNAV)-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) OBK J73 SZW JINGL (RNAV)-STAR .....	1100-0300
Fort Myers (FMY) .....	OBK J73 SZW TYNEE (RNAV)-STAR .....	1100-0300
Harrisburg (MDT) .....	OBK SAMPL ADIME GERBS J146 CXR EWC HAR ...	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or	



PREFERRED IFR ROUTES

375

Terminals	Route	Effective Times (UTC)
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR.....	
Hyannis (HYA).....	SQUIB MKG ECK YXU BUF ENE LFA.....	
Jackson (JXN).....	SQUIB.....	
Kansas City (MCI).....	DBQ BRAYMER-STAR.....	
Kansas City (MKC).....	DBQ IRK BRAYMER-STAR.....	
Kennedy (JFK).....	SQUIB MKG ECK J16 HANKK J522 HNK IGN KINGSTON-STAR.....	
La Guardia (LGA).....	SQUIB MKG ECK YXU BUF GEE ROCKDALE-STAR ..	
Lansing (LAN).....	SQUIB.....	
Mansfield (MFD).....	OBK SAMPL ADIME OTENS VVV .....	
Miami (MIA).....	OBK J73 SZW J43 PIE CYY-STAR .....	1100-0300
	or (Turbojets-GPS or DME/DME-IRU equipped) OBK J73 SZW SSCOT (RNAV)-STAR .....	1100-0300
Montreal (CYUL).....	SQUIB MKG ECK YYZ J594 MSS.....	
Morristown (MMU).....	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE .....	
Nashville (BNA).....	OBK J73 PXV CCT HEHAW-STAR .....	
Newark (EWR).....	SQUIB MKG ECK J16 HANKK J522 HNK SHAFF-STAR .....	
Niagara Falls (IAG).....	SQUIB MKG ECK YXU.....	
Orlando Executive (ORL).....	OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR .....	
	or (GPS or DME/DME-IRU equipped) OBK J84 DNV TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR.....	1100-0400
Orlando Intl (MCO).....	OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) OBK J84 DNV TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR.....	1100-0400
Philadelphia (PHL).....	OBK SAMPL ADIME GERBS J146 CXR EWC JST BUNTS-STAR.....	
Pittsburgh (PIT).....	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB ACO CUTTA-STAR.....	
Portland (PWM).....	SQUIB MKG ECK YXU BUF ALB CON PARSO .....	
Pottstown (PTW).....	SQUIB ADALE J34 CRL CXR EWC JST .....	
Providence (PVD).....	SQUIB MKG ECK J16 HANKK J522 HNK TEDDY-STAR .....	
Sarasota/Bradenton (SRQ).....	OBK J73 SZW CLAMP-STAR .....	1100-0300
Syracuse (SYR).....	SQUIB MKG ECK YXU BUF .....	
Tampa (TPA).....	OBK J73 SZW DARBS-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) OBK J73 SZW FOXXX (RNAV)-STAR .....	1100-0300
Teterboro (TEB).....	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE .....	
Toledo (TOL).....	SQUIB PMM LFD .....	
Toronto (CYYZ).....	SQUIB MKG ECK V216.....	
Washington Dulles (IAD).....	OBK GIJ J146 J34 DJB J34 AIR MGW MGW121 VERNI ESL SHAAR ROYIL-STAR.....	
	or OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Washington Natl (DCA).....	OBK GIJ J146 J34 DJB J34 SHAAR WZRRD-STAR ..	
	or OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI).....	(GPS or DME/DME-IRU equipped) OBK J73 SZW WLACE.....	
White Plains (HPN).....	SQUIB MKG ECK J16 BUF ITH DNY VALRE-STAR ..	
Windsor Locks (BDL).....	SQUIB MKG ECK J16 AUDIL SWEDE-STAR.....	
Youngstown (YNG).....	OBK SAMPL ADIME GERBS CXR .....	

Terminals	Route	Effective Times (UTC)
<b>MOLINE (MLI)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	ELX CRL HIMEZ-STAR .....	
Detroit/Wayne (DTW) .....	MKG POLAR-STAR .....	
<b>MONTREAL (CYUL)</b>		
Cincinnati (CVG) .....	(RNAV only) YOW J546 YSO MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
	or	
	(all others) YOW J546 YSO YYZ JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR .....	
Detroit/Wayne (DET) .....	YOW J546 .....	
Kennedy (JFK) .....	V282 J524 BUGSY J570 ALB IGN IGN-STAR .....	
La Guardia (LGA) .....	V282 J542 BUGSY J570 ALB PWL IGN V157	
<b>OSHAWA (CYOO)</b>		
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	YSN YHM YXU PICES-STAR .....	
<b>OTTAWA (CYOW)</b>		
Detroit Metro Area (DTW, DET, YQG, PTK, YIP ARB) .....	YOW J546 YSO YXU PICES-STAR .....	
<b>PEORIA (PIA)</b>		
Detroit/Wayne (DTW) .....	MKG POLAR-STAR .....	
<b>ROCKFORD (RFD)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	ELX CRL HIMEZ-STAR .....	
<b>SAGINAW (MBS)</b>		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	MBS V133 SVM HIMEZ-STAR .....	
<b>SAINT THOMAS (CYQS)</b>		
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	AXXIS PICES-STAR .....	
<b>SOUTH BEND (SBN)</b>		
Atlanta (ATL) .....	(RNAV only) IIIU BWG ERLIN (RNAV)-STAR .....	
	or	
	IIIU BWG ROME-STAR .....	
Cincinnati (CVG) .....	FWA DEBAR-STAR .....	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR) .....	LFD CRL HIMEZ-STAR .....	
<b>TOLEDO (TOL)</b>		
Atlanta (ATL) .....	VWV RID IIIU BWG ROME-STAR .....	
<b>TORONTO (CYYZ)</b>		
Cincinnati (CVG) .....	(RNAV only) THORL JHW MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
	or	
	(all others) THORL JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR .....	
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	ANCOL V104 YXU PICES-STAR .....	
La Guardia (LGA) .....	(above 250 kts) V252 GEE RKA-STAR .....	1100-0300
	or	
	(250 kts or less) V252 GEE V14 BEEPS J522 EXTOL RKA292 RKA NOBB-STAR .....	
San Francisco (SFO) .....	GRB J106 GEP J70 ABR J32 FMG ILA PYE .....	
<b>WATERLOO (CYKF)</b>		
Detroit Metro Area (DTW, DET, YQG, PTK, YIP, ARB) .....	YXU PICES-STAR .....	

**PREFERRED IFR ROUTES**  
**SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES**

Terminals	Route	Effective Times (UTC)
Traffic originating east of Chicago Terminating Denver:		
DJB .....	J60 IOW DSM J144 OBH J10 LBF SAYGE-STAR .....	1300-0100
J16 MCW ONL J114 SNY LANDR-STAR .....	STL J110 GCK J154 RYLIE DANDD-STAR .....	1300-0100
Traffic overflying Cleveland Center and south of SLT:		
HPN .....	(above 250 kts) SLT J190 CFB DNY280 DNY VALRE-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY VALRE-STAR .....	
	or	
	(250 kts or less) SLT J190 CFB DNY280 DNY NOBBI-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY NOBBI-STAR .....	
EWB .....	ROD J29 J584 FQM-STAR .....	1100-0300
ROD J29 J70 LVZ LENDY-STAR .....	1100-0300 or	
	BKW J42 GVE KORRY-STAR .....	1100-0300
PHL .....	ROD J152 HAR V210 BUNTS .....	1100-0300
	or	
	BKW J42 GVE DPNT-STAR .....	1100-0300
PIT .....	APE CTW V443 WISKE .....	
	or	
	HNN JPU V117 WISKE .....	
TEB/MMU/CDW/Satellites .....	(Non-Advanced Nav Aircraft only) ROD J29 JHW J70 LVZ LVZ-STAR .....	
Traffic overflying Badger VORTAC, BAE to Washington Dulles IAD:		
BAE .....	J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Traffic overflying Gipper VORTAC, GIJ to Washington Dulles IAD:		
GIJ .....	J146 WOOST J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J146 WOOST J34 AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
Traffic overflying Indianapolis Center area eastbound originating north and west of a line from DFW to JFK:		
ABE .....	ROD CXR J146 .....	
BDL .....	ROD J29 JHW J82 WILET RKA SWEDE-STAR .....	
BWI .....	ROD J152 J162 MGW EMI-STAR .....	
CEF .....	ROD J29 JHW J82 ALB .....	
FRG .....	ROD J29 JHW J82 J522 HNK IGN V58 V91 CCC .....	
HPN .....	(above 250 kts) ROD J29 JHW J82 WILET DNY VALRE-STAR) .....	
	or	
	(250 kts or less) ROD J29 JHW J82 WILET DNY NOBBI-STAR .....	
ISP .....	(above 250 kts) ROD J152 J78 PSB J49 HNK J68 V130 TOMES MAD V34 CREAM V16 CCC .....	
	or	
	(250 kts or less) ROD J152 J78 PSB J49 HNK DNY LOVES-STAR .....	
TEB/MMU/CDW/LDJ .....	ROD J29 JHW J70 LVZ-STAR .....	

Terminals	Route	Effective Times (UTC)
Traffic overflying Indianapolis Center area eastbound originating south and east of a line from DFW to JFK:		
ABE .....	BKW LDN LDN031 V377 HAR V162 DUMMR.	
ACY .....	BKW J42 OTT SIE .....	
BWI .....	BKW J147 CSN OTT-STAR .....	
DAA .....	BKW J213 V143 V4 AML .....	
DCA/ADW .....	BKW WZRRD-STAR .....	
	or	
	BKW ELDEE (RNAV)-STAR .....	
DOV .....	BKW J42 GVE ENO-STAR .....	
HPN .....	BKW J42 OOD J150 CYN BOUNO-STAR .....	
IAD .....	BKW ROYIL-STAR .....	1100-1830 and 2230-0300
	or	
	BKW SHNON (RNAV)-STAR .....	1100-1830 and 2230-0300
	or	
	GSO J14 CREWE J51 FAK COATT-STAR .....	1830-2230
	or	
	GSO J14 CREWE J51 FAK BARIN (RNAV)-STAR .....	1830-2230
LFI .....	BKW J42 MOL J24 HCM .....	
NSF .....	BKW J213 FINKS AML259 AML .....	
PHL .....	BKW J42 GVE DPNT-STAR .....	
TEB/MMU/CDW/LDJ .....	(Advanced Nav Aircraft only) BKW J42 GVE JAIKE-STAR .....	
WRI .....	BKW J42 OTT SIE-STAR .....	
Traffic overflying Indianapolis Center from Kansas City Center landing at Cleveland Metro:		
CLE .....	(GPS or DME/DME-IRU equipped) STL J134 JUDDI CVG ABERZ-STAR .....	
Traffic overflying Indianapolis Center from Kansas City Center landing at Detroit/Wayne:		
DTW .....	(GPS or DME/DME-IRU equipped) PXV VHP FWA MIZAR-STAR .....	
Traffic overflying Indianapolis (ZID) or Cleveland (ZOB) Centers landing in the Washington Metropolitan Area:		
BWI .....	MGW EMI-STAR .....	1100-0300
	or	
	BKW J147 CSN OTT-STAR .....	1100-0300
DCA .....	APE J30 BUCKO BUCKO-STAR .....	1100-0300
	or	
	BKW FINKS-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BKW ELDEE (RNAV)-STAR .....	1100-0300
	or	
	APE J30 SHAAR WZRRD-STAR .....	
	or	
	BKW WZRRD-STAR .....	
	or	
	APE J30 SHAAR ELDEE .....	
	or	
	BKW ELDEE (RNAV)-STAR .....	
	or	
IAD .....	APE AIR MGW MGW121 VERNI ESL ROYIL-STAR .....	
	or	
	BKW ROYIL-STAR .....	
	or	
	HVQ ROYIL-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) APE AIR MGW VERNI ESL SHNON (RNAV)-STAR .....	
	or	
	BKW SHNON (RNAV)-STAR .....	
	or	
	HVQ SHNON (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
Traffic overflying Indianapolis Center (ZID) to Chicago O'Hare (ORD)		
ORD .....	(Non-Advanced Nav Aircraft only) ATL J89 IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) BNA IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) FLM J24 BIGXX MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only) IRQ J99 IIU MZZ OXI KNOX-STAR .....	
	or	
	(Non-Advanced Nav Aircraft only, Washington/Baltimore Metro Area Only: BWI, DCA, IAD) ROD J149 FWA KNOX-STAR .....	

**HIGH ALTITUDE—SINGLE DIRECTION ROUTES**

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J24/110 .....	Indianapolis, IN to St. Louis, MO .....	West	1100-0300
J30 .....	Joliet, IL to TRIXY Intn, VA .....	East	1100-0300
J34 .....	Bellaire, OH to TRIXY Intn, VA .....	East	1100-0300
J149 .....	Armel, VA to Rosewood, OH .....	West	1100-0300
J162 .....	Bellaire, OH to Martinsburg, WV .....	East	1100-0300

## Q-ROUTES REGULATORY

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
<b>Q1</b>	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBQ
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
<b>Q2</b>	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
<b>Q3</b>	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
	FEPOP-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
<b>Q4</b>	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
<b>Q5</b>	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTRR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTRR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
<b>Q7</b>	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
<b>Q9</b>	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
<b>Q11</b>	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
<b>Q13</b>	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
<b>Q15</b>	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
<b>Q19</b>	All segments	None; GNSS required
<b>Q20</b>	All segments	None; GNSS required
<b>Q21</b>	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IJU, FAM, BWG, CSX
	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
<b>Q22</b>	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
	JUNCTION-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
<b>Q23</b>	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
<b>Q23</b>	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL

**Q-ROUTES**

<b>Route</b>	<b>Segment</b>	<b>DME</b>
<b>Q24</b>	LAKE CHARLES–BATON ROUGE BATON ROUGE–IRUBE IRUBE–PAYTN	AEX, DAS, LCH, MCB, LFT, BTR AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
<b>Q25</b>	MEEOW–WALNUT RIDGE WALNUT RIDGE–WLSUN WLSUN–POCKET CITY	ELD, MEM, LIT, FAM, RZC MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH BWG, PXV, ENL, BNA, TTH
<b>Q26</b>	WALNUT RIDGE–DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
<b>Q27</b>	FORT SMITH–ZALDA	OKM, SGF, RZC, EOS, TUL
<b>Q28</b>	GRAZN–PYRMD PYRMD–HAKAT HAKAT–ESTEE ESTEE–POCKET CITY	EIC, LIT, ELD, OKM, TXK ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK ARG, LIT, FAM, SGF, MEM ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
<b>Q29</b>	HARES–MEMPHIS MEMPHIS–SIDAE SIDAE–POCKET CITY	MEM, ARG, LIT, JAN, ELD, SQS MEM, PXV, BNA, BWG, ARG, ENL PXV, TTH, BWG, ENL
<b>Q30</b>	SIDON–VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
<b>Q31</b>	DHART–JODOX JODOX–MARVELL MARVELL–TIIDE TIIDE–POCKET CITY	SQS, LIT, TXK SQS, LIT, ELD, MEM, ARG ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH BWG, PXV, ENL, TTH
<b>Q32</b>	EL DORADO–GAGLE GAGLE–CRAMM CRAMM–NASHVILLE NASHVILLE–SWAPP	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK JAN, SQS, MEM, ARG, VUZ, BNA, LIT BWG, MEM, VUZ, BNA, GQO BWG, IIU, PXV, VXV, BNA, GQO
<b>Q33</b>	DHART–LITTLE ROCK LITTLE ROCK–PROWL	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
<b>Q34</b>	TEXARKANA–MATIE MATIE–MEMPHIS MEMPHIS–SWAPP	LIT, SWB, TXK, BYP, EIC, ELD, SQS LIT, ARG, MEM, ELD, SQS BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV
<b>Q35</b>	KIMBERLY–NEERO NEERO–WINEN WINEN–CORKR CORKR–DRAKE	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
<b>Q36</b>	RAZORBACK–TWTIS TWTIS–DEPEC DEPEC–NASHVILLE NASHVILLE–SWAPP	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU GQO, BWG, BNA, PXV, IIU VXV, BWG, BNA, GQO, PXV, IIU
<b>Q38</b>	ROKIT–INCIN INCIN–LAREY LAREY–BESOM	DAS, LCH, SWB, IAH, LFK, HUB, AEX JAN, MCB, SWB, AEX JAN, JYU, MEI, SQS, VUZ
<b>Q40</b>	ALEXANDRIA–DOOMS DOOMS–WINAP WINAP–MISLE	AEX, SWB, LCH, JAN, HEZ, MCB JAN, SQS, MEI, MCB MEI, VUZ, JYU
<b>Q42</b>	KIRKSVILLE–STRUK STRUK–DANVILLE  DANVILLE–MUNCIE MUNCIE–HIDON  HIDON–BUBAA BUBAA–PSYKO PSYKO–BRNAN BRNAN–MAALS MAALS–SUZIE SUZIE–EAST TEXAS EAST TEXAS–ELIOT	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC AIR, APE, HNN, CXR, HVQ, EWC, DJB AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
<b>Q104</b>	DEFUN–HEVVN HEVVN–PLYER PLYER–SWABE SWABE–ST PETERSBURG ST PETERSBURG– CYPRESS	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD PIE, ORL, OMN, SRQ, TAY LAL, ORL, OMN, SRQ, PHK, PIE PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN

Route	Segment	DME
Q106	SMELZ-BULZI BULZI-DRABK DRABK-GADAY	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
Q110	THNDR-JAYMC JAYMC-RVERO RVERO-KPASA KPASA-BRUTS BRUTS-GULFR GULFR-FEONA	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP OMN, PIE, PBI, SRQ, ORL, LAL SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN HEVVN-INPIN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS BRUTS-GULFR GULFR-CEEYA	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS BRUTS-LENIE	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q502	GOPHER-SOBME KENPA-GOPHER	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
Q504	GOPHER-SOBME NOTAP-CESNA	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
Q505	CESNA-HEMDI OMAGA-RIMBE RIMBE-CESNA CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD SSM, TVC, ASP, SAW, GRB SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB



### RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

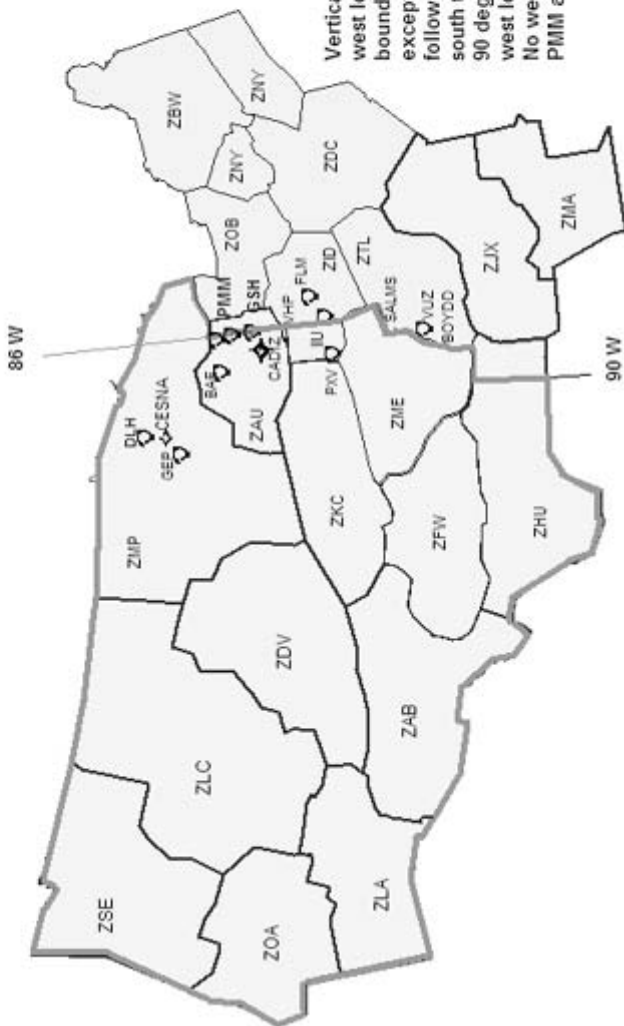
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

## High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZID boundary, except between PMMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMMM and GSH.

### HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

### HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

Houston Hobby	LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

### **Catch Points for Airports Located Outside HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)-STAR or PATYN HONIE (RNAV)-STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

**Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	<p>OATHE DANDD-STAR  or  HGO QUAIL-STAR  or  LOPEC-STAR  or  ALS LARKS-STAR  or  HBU POWDR-STAR  or  EKR TOMSN-STAR  or  CHE TOMSN-STAR  or  BFF LANDR-STAR  or  LBF SAYGE-STAR  or  HCT SAYGE-STAR  or  RSK LARKS-STAR  or  LAA QUAIL-STAR  or  GCK J154 RYLIE DANDD-STAR  or  OCS J154 ALPOE RAMMS-STAR  or  YANKI J114 SNY LANDR-STAR  or  Aircraft filed BIL or east, MBW RAMMS-STAR</p>
Ft Lauderdale or Ft Lauderdale Executive	<p>CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR  Aircraft through ZHU airspace remain south ZME and ZTL  airspace  or  SZW HEVFN Q104 PIE SWAGS (RNAV)-STAR</p>
Houston Bush	<p>CRP, CVE, LLO, LUKIY, SAT  or  Aircraft south and east of LLA, JEPEG  or  MISLE Q40 AEX  or  Aircraft north and east of SJI, SJI  or  Aircraft east of PXV, PXV Q31 DHART SWB  or  Aircraft north and west of PXV, PROWL Q33 DHART SWB</p>
Houston Hobby	<p>CRP, ELLVR, SAT, SWB  or  Aircraft south and east of GIRLY, KCEEE  or  Aircraft north and east of SJI, SJI  or  BESOM Q38 ROKIT ROKIT-STAR  or  Aircraft east of PXV, PXV Q29 HARES SWB  or  Aircraft north and west of PXV, PROWL Q33 DHART SWB</p>
Jacksonville	<p>GADAY ZOOSS TAY  Aircraft through ZHU airspace remain south of ZME and ZTL  airspace  or  ZOOSS TAY</p>



John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVVN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR

Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU

San Francisco	FMG GOLDEN GATE-STAR or MVA MODESTO-STAR or ENI GOLDEN GATE-STAR or OAL MODESTO-STAR or South of a line ILC to DVC, REANA KATTS OAL MODESTO-STAR
San Jose	FMG HYP EL NIDO-STAR or OAL HYP EL NIDO-STAR or ENI GOLDEN GATE-STAR or South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR
Seattle Terminal Area	Aircraft from northeast, southeast, south, TEMPL GLASR-STAR or SUNED CHINS-STAR or BTG OLYMPIA-STAR
Southwest Florida Airports RSW and FMY	CEW DEFUN Q104 SWABE JOSFF-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW HEVVN Q104 SWABE JOSFF-STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW DARBS-STAR
Tucson	DRK PXR or MOHAK GBN

## VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

## BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

## BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGVL	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPIIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

## BOSTON TERMINAL AREA CHART

VPCHH	Cohasset	N42°13.58' /W070°48.94'
VPCTH	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRS	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPNTP	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

## CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

**CHICAGO SECTIONAL CHART**

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCOH	_____	N31°49.35' / W081°51.07'

**DENVER TERMINAL AREA CHART/FLYWAY CHART**

VPBEN	_____	N39°44.28' / W104°26.00'
VPFTG	_____	N39°44.35' / W104°32.75'
VPNIC	NORTH INTERCHANGE	N39°58.90' / W104°59.27'

**HOUSTON TERMINAL AREA CHART/FLYWAY CHART**

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25' / W095°09.24'
VPDTN	_____	N29°46.59' / W095°22.01'
VPGLA	_____	N30°08.32' / W095°06.62'
VPGLB	_____	N30°07.80' / W094°55.70'
VPKTY	_____	N29°47.05' / W095°44.92'
VPPLN	_____	N30°08.80' / W095°50.42'
VPRSN	_____	N29°30.00' / W095°41.00'
VPSND	_____	N29°23.13' / W095°28.86'
VPSNT	_____	N29°49.29' / W094°53.94'
VPTNE	_____	N29°47.48' / W095°03.34'
VPTNW	_____	N29°47.06' / W095°33.81'
VPTRK	_____	N29°24.06' / W095°10.44'

**JACKSONVILLE SECTIONAL CHART**

VPAFI	_____	N31°49.35' / W081°51.07'
VPAFY	_____	N30°07.00' / W081°21.33'
VPBEC	_____	N29°46.25' / W081°15.10'
VPCJA	_____	N29°30.00' / W081°06.00'
VPCKY	_____	N28°46.50' / W082°34.00'
VPCNY	_____	N28°30.00' / W080°45.00'
VPDAD	DADE CITY	N28°22.57' / W082°11.25'
VPDAR	_____	N31°22.38' / W081°24.13'
VPDFI	_____	N29°00.17' / W081°20.85'
VPDUT	_____	N27°37.70' / W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67' / W082°49.83'
VPEGV	_____	N29°39.97' / W081°24.87'
VPFJU	_____	N28°57.08' / W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50' / W082°44.67'
VPHAA	_____	N30°04.02' / W083°40.02'
VPHUC	_____	N28°19.87' / W082°43.77'
VPIWA	MIDWAY	N31°48.33' / W081°25.85'
VPJMY	_____	N29°26.92' / W081°18.27'
VPKER	LAKE PARKER	N28°04.00' / W081°56.00'
VPLEV	_____	N28°48.00' / W080°52.00'
VPLJA	_____	N29°00.00' / W080°51.00'
VPMAI	_____	N30°50.02' / W084°56.63'
VP TLH	_____	N30°32.70' / W083°52.22'
VPXZY	_____	N29°35.00' / W083°10.00'
VPYIW	_____	N30°42.28' / W081°27.25'
VPZIE	_____	N32°01.62' / W080°53.42'

**KANSAS CITY SECTIONAL CHART**

VPAGO	_____	N37°50.33' / W090°29.03'
VPBEK	_____	N37°15.07' / W092°30.67'
VPDEN	_____	N37°46.75' / W092°19.20'
VPENE	_____	N37°44.75' / W091°55.78'
VP ESS	_____	N36°59.48' / W091°00.88'
VPFME	_____	N37°41.00' / W092°38.33'
VP GXY	_____	N37°15.50' / W091°40.17'
VPMBE	_____	N37°11.08' / W090°27.92'
VPMKE	_____	N37°24.47' / W092°40.00'
VPROV	_____	N38°01.72' / W091°12.81'
VPUTT	_____	N37°52.05' / W092°01.20'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC	_____	N37°18.03' /W092°18.63'
VPWRO	_____	N37°39.12' /W091°45.68'
VPXIZ	_____	N37°26.60' /W092°05.42'

### KANSAS CITY TERMINAL AREA CHART

VPATN	ATCHISON	N39°33.62' /W095°07.65'
VPBGS	BLUE SPRINGS	N39°01.82' /W094°16.32'
VPBSP	BONNER SPRINGS	N39°03.78' /W094°53.10'
VPCHB	CHOUTEAU BRIDGE	N39°08.77' /W094°32.03'
VPDSO	DE SOTO	N38°58.68' /W094°58.48'
VPESE	EXCELSIOR SPRINGS	N39°20.68' /W094°13.77'
VPGTB	GARRETSBURG	N39°40.92' /W094°41.45'
VPLAT	LATHROP WATER TANK	N39°32.87' /W094°20.00'
VPLEN	LENEXA	N38°57.77' /W094°43.68'
VPLVL	LONGVIEW LAKE	N38°54.63' /W094°28.28'
VPMCL	MC LOUTH	N39°11.65' /W095°12.50'
VPNHA	NASHUA	N39°17.83' /W094°34.80'
VPSCX	SPORTS COMPLEX	N39°03.00' /W094°29.02'
VPSKR	SUGAR CREEK REFINERY	N39°07.00' /W094°27.02'
VPSPK	SWOPE PARK	N39°00.47' /W094°31.93'
VPTSK	TWIN STACKS	N39°09.05' /W094°38.22'
VPWOF	WORLDS OF FUN	N39°10.42' /W094°29.12'

### KLAMATH FALLS SECTIONAL CHART

VPORO	_____	N43°57.38' /W123°02.22'
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### LOS ANGELES HELICOPTER CHART

VPANA	_____	N33°44.43' /W117°50.03'
VPART	MAGNOLIA	N33°51.45' /W117°58.92'
VPAUT	HWY 91 & 55	N33°50.63' /W117°49.57'
VPBOB	_____	N33°59.60' /W117°21.45'
VPCAR	_____	N33°49.90' /W118°17.23'
VPNCG	CONEJO GRADE US HWY 101	N34°12.54' /W118°59.61'
VPCOR	_____	N33°52.90' /W117°32.95'
VPCRX	_____	N34°01.40' /W117°44.88'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76' /W119°02.53'
VPDOW	_____	N33°56.47' /W118°05.80'
VEPEL	_____	N34°00.98' /W118°10.35'
VPETY	_____	N33°38.70' /W117°44.12'
VPFCB	_____	N34°02.03' /W118°01.63'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71' /W119°10.39'
VPGOL	_____	N34°09.33' /W118°17.37'
VPIMP	_____	N33°55.85' /W118°16.85'
VPKAT	_____	N33°48.23' /W117°54.22'
VPKEL	_____	N34°03.92' /W117°48.40'
VPLAC	_____	N34°03.75' /W118°14.93'
VPLLU	_____	N34°03.85' /W117°17.82'
VPLQM	QUEEN MARY	N33°45.17' /W118°11.37'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45' /W118°02.65'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97' /W118°16.32'
VPMDR	_____	N33°59.27' /W118°23.97'
VPNEW	NEWHALL PASS	N34°20.18' /W118°30.72'
VPNUY	_____	N34°09.63' /W118°28.18'
VPPCH	_____	N33°28.07' /W117°40.32'
VPPKC	_____	N34°03.32' /W118°12.83'
VPPOR	_____	N34°00.10' /W117°50.12'
VPRRT	_____	N33°59.37' /W118°16.83'
VPSEP	_____	N34°05.80' /W118°28.63'
VPSFR	_____	N34°17.45' /W118°28.07'
VPSTC	SATICOY BRIDGE	N34°16.62' /W119°08.34'
VPSTK	_____	N34°13.97' /W118°24.60'

LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPGTY	GETTY CENTER	N34°04.84'/W118°28.66'
VPLBP	BANNING PASS	N33°56.05'/W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87'/W117°34.33'
VPLCP	CAJON PASS	N34°18.07'/W117°27.68'
VPLDL	DISNEYLAND	N33°48.72'/W117°55.13'
VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42'/W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10'/W118°18.02'
VPLHF	110/405 FWYS	N33°51.42'/W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75'/W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20'/W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40'/W117°56.77'
VPLPD	PRADO DAM	N33°53.40'/W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17'/W118°11.37'
VPLRB	ROSE BOWL	N34°09.67'/W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03'/W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72'/W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97'/W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07'/W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00'/W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40'/W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VPLWT	WATER TANK	N34°10.82'/W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV	_____	N27°57.00'/W080°46.75'
VPCLC	_____	N26°27.07'/W082°00.88'
VPCTE	_____	N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDUT	_____	N27°37.70'/W082°09.10'
VPDZE	_____	N27°19.00'/W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH	_____	N26°25.40'/W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHRO	_____	N27°05.97'/W082°12.20'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIBR	_____	N27°12.47'/W081°40.22'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPKOE	_____	N24°40.08'/W081°20.55'
VPLYY	_____	N24°49.07'/W080°49.17'
VPMBO	GULFSTREAM PARK	N25°58.57'/W080°08.17'
VPOBA	PUMPING STATION	N26°28.30'/W080°26.75'
VPRBI	_____	N25°50.67'/W080°55.18'
VPRNL	RANGER STATION	N25°22.92'/W080°36.58'
VPWMO	_____	N27°03.00'/W080°35.00'

## MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00'
VPMB0	GULFSTREAM PARK	N25°58.57' /W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75'
VPRBI	_____	N25°50.67' /W080°55.18'
VPRNL	RANGER STATION	N25°22.92' /W080°36.58'

## NEW ORLEANS SECTIONAL CHART

VPGPT	_____	N30°25.95' /W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' /W085°59.25'
VPMAI	_____	N30°50.02' /W084°56.63'
VPMOB	_____	N30°23.00' /W088°31.72'
VPRAM	_____	N30°18.95' /W089°35.88'
VPRER	_____	N30°13.87' /W085°20.67'
VPRIV	_____	N30°54.85' /W087°57.82'
VPSAW	_____	N30°49.65' /W089°07.42'
VPTHR	_____	N30°19.93' /W087°08.50'

## NEW YORK HELICOPTER CHART

VPJAY	_____	N40°59.00' /W073°07.00'
VPLYD	_____	N40°57.37' /W073°29.59'
VPROK	_____	N40°52.70' /W073°44.24'

## PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' /W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' /W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' /W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' /W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' /W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' /W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' /W111°50.37'
VPCNL	CANAL	N33°33.23' /W111°46.89'
VPFRB	FIREBIRD LAKE	N33°16.35' /W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' /W111°42.72'
VPLGX	GILA CROSSING	N33°16.55' /W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' /W112°13.00'
VPMAR	MARICOPA	N33°03.42' /W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' /W111°49.58'
VPNRV	NEW RIVER	N33°55.08' /W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' /W111°55.83'
VPPIR	PIR	N33°22.52' /W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' /W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' /W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' /W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' /W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' /W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' /W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' /W111°59.67'
VPZZZ	_____	N33°20.18' /W111°26.53'

## ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' /W090°22.42'
VPBPE	_____	N38°23.80' /W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' /W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' /W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' /W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' /W090°11.55'
VPEDJ	WATER TANKS	N38°45.30' /W090°34.87'
VPEGR	GAS TANKS	N38°35.80' /W090°19.32'
VPEOX	ST PETERS	N38°47.17' /W090°39.25'



WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00'/W090°43.00'
VPPFY	_____	N38°55.37'/W090°17.30'
VPGPF	_____	N38°35.60'/W090°26.92'
VPGVI	_____	N38°32.30'/W090°27.80'
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIBO	WATERLOO	N38°20.00'/W090°09.00'
VPJMU	HORSESHOE LAKE	N38°41.00'/W090°05.00'
VPKNY	PACIFIC	N38°29.00'/W090°44.00'
VPLES	ST CHARLES	N38°47.00'/W090°30.00'
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50'/W090°11.00'
VPNSY	WOOD RIVER REFINERIES	N38°50.00'/W090°05.00'
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00'/W090°20.00'
VPRMO	FOREST PARK	N38°38.00'/W090°17.00'
VPWKO	COLUMBIA	N38°27.00'/W090°12.00'
VPXXI	MILLSTADT	N38°27.50'/W090°05.68'
VPYID	MOSENTHEIN ISLAND	N38°43.00'/W090°12.25'

**SALT LAKE CITY HELICOPTER CHART**

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPPFC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPPFK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPPVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VP TIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'

**SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART**

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30'/W111°53.43'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPPFC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPPFK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPVHE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73'/W111°50.28'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00'/W111°48.95'

### SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPOCN	_____	N33°14.15'/W117°26.63'
VPSBC	BARONA CASINO	N32°56.25'/W116°52.60'
VPSBL	_____	N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF	_____	N32°48.55'/W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72'/W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77'/W117°15.42'
VPSCR	_____	N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25'/W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53'/W116°53.28'
VPSMB	_____	N32°45.57'/W117°12.22'
VPSMP	_____	N33°22.70'/W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40'/W117°15.10'
VPSMV	_____	N32°45.75'/W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52'/W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82'/W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73'/W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90'/W117°14.55'
VPSPP	POWER PLANT	N33°08.25'/W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58'/W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78'/W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53'/W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17'/W117°14.68'
VPSVA	_____	N33°11.48'/W117°16.38'

### SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75'/W119°53.20'
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### SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35'/W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45'/W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50'/W122°07.45'
VPCAL	CALAVERAS RESERVOIR	N37°28.16'/W121°48.93'
VPCBT	LAKE CHABOT	N37°43.68'/W122°06.94'
VPCOY	COYOTE HILLS	N37°32.50'/W122°05.06'
VPCQZ	CARQUINEZ BRIDGE	N38°03.66'/W122°13.52'
VPCRL	_____	N37°11.00'/W121°41.06'
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56'/W122°21.10'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52'/W122°03.52'
VPDAM	DEL VALLE DAM	N37°36.91'/W121°44.78'
VPDLR	_____	N37°07.00'/W121°47.06'
VPDUB	DUBLIN	N37°42.06'/W121°55.36'
VPEMB	EMBASSY SUITES	N37°26.05'/W121°53.83'
VPGGF	GOLDEN GATE FIELDS	N37°53.07'/W122°18.71'
VPGIL	GILROY	N37°01.37'/W121°33.99'
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KGO	N37°31.58'/W122°06.10'
VPLEX	LEXINGTON RESERVOIR	N37°11.66'/W121°59.18'
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28'/W122°11.81'
VPMOR	MORMON TEMPLE	N37°48.46'/W122°11.95'
VPNUM	NUMMI PLANT	N37°29.56'/W121°56.58'
VPPAC	_____	N37°38.00'/W122°32.07'
VPPRU	PRUNEYARD	N37°17.33'/W121°56.01'
VPSAR	SARATOGA	N37°15.26'/W122°02.33'
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75'/W122°14.35'
VPSTB	STINSON BEACH	N37°54.45'/W122°40.41'
VPSUN	SUNOL GOLF COURSE	N37°34.85'/W121°53.23'
VPUTC	U.T.C.	N37°13.93'/W121°41.35'
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM	_____	N37°30.28'/W122°10.00'
VPWFR	CEMENT PLANT	N37°30.88'/W122°12.26'

**TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART**

VPBOV	_____	N27°57.00'/W080°46.75'
VPCNY	_____	N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDFI	_____	N29°00.17'/W081°20.85'
VPDUT	_____	N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPFFU	_____	N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHUC	_____	N28°19.87'/W082°43.77'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV	_____	N28°48.00'/W080°52.00'
VPLJA	_____	N29°00.00'/W080°51.00'

**WASHINGTON SECTIONAL CHART**

VPACE	_____	N38°07.82'/W076°48.75'
VPAXI	_____	N38°34.57'/W076°20.38'
VPBRA	_____	N36°13.75'/W076°08.08'
VPGCE	_____	N36°03.90'/W076°36.42'
VPWZO	_____	N36°00.87'/W075°40.07'

## VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

### ILLINOIS

#### 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>Centralia</b> (Centralia Muni) .....	115.0/ENL	A/2000	027	6.1	Over apch end Rwy 36.
<b>Champaign</b> (Urbana) .....	110.0/CMI	A/2000	177	7.8	Over grain elevator at Pesotum.
<b>Champaign</b> (University of Illinois-Willard) ...	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
<b>Decatur</b> (Decatur) .....	117.2/DEC	A/1700	348	5.4	Over apch end Rwy 36.
<b>Galesburg</b> .....	109.8/GBG	A/3000	237	12	Over railroad bridge.
<b>Joliet</b> (Aurora Muni) .....	112.3/JOT	A/2500	331	15	Over intersection of rwys.
<b>Joliet</b> (Joliet Rgnl) .....	112.3/JOT	A/1500	102	6.5	Over centerline of NW end of Rwy 04-22.
<b>Lawrenceville</b> (Lawrenceville-Vincennes Intl) .....	108.8/LWV	G	177	.6	South side of Echo.
<b>Marion</b> (Williamson Co Rgnl) .....	110.4/MWA	A/1500	287	11	Railroad intersection in town of De Soto.
<b>Mattoon/Charleston</b> (Coles Co Memorial) ...	110.4/MWA	G	139	.5	On parallel twy to Rwy 29.
	109.4/MTO	G	066	.7	Runup pad Rwy 24. VOR checkpoint unusable.
<b>Moline</b> (Quad City Intl) .....	114.4/MZV	A/2000	034	9.8	Over intersection of Rwys 05-23, 09-27, 13-31.
<b>Mount Vernon</b> (Mount Vernon) .....	113.8/VNN	G	223	3.2	At intersection of taxiways B and B2.
<b>Peoria</b> (Greater Peoria Rgnl) .....	115.2/PIA	A/2000	100	4.9	Over intersection Rwys 13-31 and 4-22.
<b>Quincy</b> (Quincy Rgnl-Baldwin Fld) .....	113.6/UIN	G	029	6.6	On W side of terminal ramp.
<b>Roberts</b> .....	116.8/RBS	A/2000	151	7.8	Over grain elevator in Paxton, IL.
<b>Rockford</b> (Chicago/Rockford Intl) .....	110.8/RFD	G	108	5.1	Over intersection of twys A/B/D.
<b>Samsville</b> (Mount Carmel Muni) .....	116.6/SAM	A/1500	063	18.4	Over intersection of Rwys 04-22 and 13-31.
<b>Troy</b> (St Louis Rgnl) .....	116.0/TOY	A/1600	322	11	Over intersection of N/S and NW/SE rwys.
<b>Vandalia</b> (Vandalia Muni) .....	114.3/VLA	A/1700	177	5.8	Over centerline at N end N/S rwy.

#### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Chicago</b> (Midway) .....	111.0	G	
<b>Chicago</b> (O'Hare) .....	112.0	G	

# VOR RECEIVER CHECK INDIANA

403

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type		Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		Check Pt. Gnd. AB/ALT	Fac.			
<b>Boiler</b> (Purdue Univ) .....	115.1/BVT	A/1800		286	12	Over water twr in town of Fowler.
<b>Goshen</b> (Goshen Muni) .....	113.7/GSH	A/2000		090	10.7	Over center of E/W rwy.
<b>Hoosier</b> (Monroe County) .....	110.2/OOM	G		349	.9	On runup pad Rwy 17.
<b>Huntingburg</b> .....	109.2/HNB	A/2500		010	8	Over water tower S edge Jasper.
<b>Kokomo</b> (Kokomo Muni) .....	113.5/OKK	G		242	.6	On taxiway A at AER 05.
<b>Marion</b> (Marion Muni) .....	108.6/MZZ	G		206	.6	Runup Pad Rwy 04
<b>Muncie</b> (Delaware Co–Johnson Fld) .....	114.4/MIE	A/2500		181	5.8	Over intersection of highway and railroad.
	114.4/MIE	G		328	0.7	On taxiway A–4 on runup area for Rwy 14.
<b>Pocket City</b> (Evansville Rgnl) .....	113.3/PXV	A/2000		056	13	Over intersection of E/W and NE/SW rwys.
<b>Terre Haute</b> (Sky King) .....	115.3/TTH	A/2000		300	7	Over intersection of E/W and N/S rwys.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Fort Wayne Intl</b> .....	111.0	G	
<b>Indianapolis Intl.</b> .....	109.6	G	

# MICHIGAN

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type		Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		Check Pt. Gnd. AB/ALT	Fac.			
<b>Alpena</b> (Alpena Co Rgnl) .....	108.8/APN	G		203	1.1	On runup for Rwy 01.
<b>Au Sable</b> (Oscoda–Wurtsmith) .....	116.1/ASP	G		249	.9	Approach end Rwy 6.
	116.1/ASP	G		063	1.0	Approach end Rwy 24.
<b>Battle Creek</b> (W.K. Kellogg) .....	109.4/BTL	A/2000		096	11.3	NS and EW highway intersection.
<b>Escanaba</b> .....	110.8/ESC	A/2500		002	14.5	Over microwave twr 1 NM S of Perkins.
<b>Gaylord</b> (Gaylord Rgnl) .....	109.2/GLR	G		077	.6	SE corner of ramp.
<b>Grand Rapids</b> (Gerald R Ford Intl) .....	115.95/GRR	A/2500		231	10	Over intersection of N/S highway & E/W road 1 NM W of Wayland.
<b>Houghton</b> (Houghton Co Meml) .....	112.8/CMX	A/2300		077	13.5	Over smoke stack.
<b>Kalamazoo</b> (Kalamazoo/Battle Creek Intl) ..	109.0/AZO	G		167	.7	On twy to Rwy 35.
<b>Lansing</b> (Capital City) .....	110.8/LAN	G		058	5.4	On Twy C; 500 E of apch end Rwy 06.
<b>Litchfield</b> .....	111.2/LFD	A/2000		328	17.5	Over intersection of NS/EW expressway.
<b>Muskegon</b> (Muskegon County) .....	115.2/MKG	A/2000		272	8.4	Over intersection of NW/SE and NE/SW rwys.
<b>Peck</b> (St Clair County Intl) .....	114.0/ECK	A/2000		166	22.5	Over apch end Rwy 04.

## VOR RECEIVER CHECK

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Pellston</b> (Cheboygan City-County) .....	111.8/PLN	A/2000	084	6.4	Over center of E/W rwy.
<b>Pellston</b> (Pellston Rgnl Arpt of Emmet Co) ...	111.8/PLN	G	241	6.4	At intersection of N/S and E/W twys.
<b>Pontiac</b> (Oakland Co Intl) .....	111.0/PSI	G	113	5.8	On circle on warmup pad apch end Rwy 27L.
	111.0/PSI	G	120	5.0	On circle on warmup pad apch end Rwy 09R.
<b>Saginaw</b> .....	112.9/MBS	A/1700	058	6.7	Over intersection US 10 and I-75.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Detroit City</b> .....	111.6	G	
<b>Detroit</b> (Detroit Metropolitan Wayne Co.)..	109.8	G	

## 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>Buckeye</b> (Port Bucyrus-Crawford Co).....	109.8/BUD	A/2500	027	10.5	Over intersection E/W grass strip and Rwy 04-22.
<b>Dryer</b> (Loraine County Rgnl) .....	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
<b>Jefferson</b> (Ashtabula Co) .....	115.2/JFN	G	067	2.4	On ramp.
<b>Jefferson</b> (Germack).....	115.2/JFN	A/2000	278	9.0	At intersection of E/W interstate highway and N-S highway south of town of Geneva Ohio.
<b>Mansfield</b> (Shelby Community).....	108.8/MFD	A/2000	277	4.8	Over hangar NW corner of arpt.
<b>Mansfield</b> (Mansfield Lahm Rgnl) .....	108.8/MFD	G	134	4.7	At intersection of taxiways A and D.
<b>Springfield</b> (Springfield-Beckley Muni).....	113.2/SGH	G	050	1.2	On NE taxiway abeam approach end Rwy 24.
<b>Waterville</b> (Fulton Co.) .....	113.1/VWV	A/1800	295	24.2	Over hangar on WSW side of arpt.
<b>Zanesville</b> (Zanesville Muni) .....	111.4/ZZV	A/2000	270	5.5	Over water tank.
	111.4/ZZV	G	028	.5	On taxiway near apch end of Rwy 22.

## VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Akron Canton Rgnl</b> .....	110.6	G	
<b>Cincinnati Muni Arpt Lunken Field</b> .....	108.4	G	
<b>Cleveland Hopkins Intl</b> .....	110.4	G	
<b>Columbus</b> (Port Columbus Intl.) .....	111.0	G or	
		A/2300-5000	Within 10 NM radius of airport.
<b>Dayton</b> (James M Cox Dayton Intl.) .....	111.0	G or	Within a 10 NM radius of arpt.
		A/2500-4000	
<b>Sidney</b> (Sidney Muni) .....	111.0	A/2500-4000	

## 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) .....	112.9/EAU	G	182	2.1	Center of ramp.
<b>Green Bay</b> (Austin Straubel Intl) .....	115.5/GRB	G	141	4.6	On Twy M1 at Rwy 18R apch end.
<b>Janesville</b> .....	114.3/JVL	A/1900	287	12.7	Over water tower N of Brodhead.
<b>Janesville</b> (Southern Wisconsin Rgnl) .....	114.3/JVL	G	035	4.3	On taxiway A1.
<b>Kenosha</b> (Sylvania) .....	109.2/ENW	A/2100	353	5.9	Over N/S interstate highway bridge over E/W highway N of arpt.
<b>LaCrosse</b> (La Crosse Muni) .....	108.4/LSE	G	356	1.0	Runup pad AER Rwy 18.
<b>Madison</b> (Dane Co Rgnl/Truax Fld) .....	108.6/MSN	G	151	0.6	On NE corner air national guard ramp adjacent to taxiway D.
<b>Manitowoc</b> (Manitowoc Co) .....	111.0/MTW	G	196	0.5	SW corner of terminal ramp.
<b>Oshkosh</b> (Wittman Rgnl) .....	111.8/OSH	G	282	0.6	On taxiway at Rwy 09 apch end
	111.8/OSH	G	173	0.7	On N/S taxiway abeam control tower.
<b>Rhineland</b> (Rhineland-Oneida Co) .....	109.2/RHI	G	212	0.5	At intersection of E-W taxiway at terminal.
<b>Sheboygan Falls</b> (Sheboygan Co Meml) .....	110.0/FAH	G	232	.4	On taxiway at Rwy 03 apch end.
<b>Stevens Point</b> (Stevens Point Muni) .....	110.6/STE	A/2500	257	12.1	Over N/S railroad and E/W road in Rudolph.
	110.6/STE	G	022	0.6	From AER 21.
<b>Wausau</b> (Central Wisconsin) .....	111.6/AUW	A/2800	222	5.5	Over intersection of N-S and E-W rwys.
<b>West Bend</b> .....	109.8/BJB	A/2500	220	7.6	Over microwave tower E of Slinger.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Milwaukee</b> (Gen Mitchell Intl) .....	109.0	G	

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

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

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>ILLINOIS</b>			
(c) Carmi Muni .....	19.7 NM; 298°Pocket City.....	9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove .....	25 NM; 343°Bradford .....	12,500	3 NM radius. SR-SS Year round.
Greenville Arpt .....	18 NM; 210°Vandalia .....	13,500	3 NM radius. Weekends and holidays, SR-1 hour after SS.
(c) Hinckley Arpt .....	22 NM; 308°Joliet.....	14,500 AGL	<b>Kansas City Center 127.7</b> 2 NM radius. Mon-Fri 0800 to 1 hour after SS, Sat-Sun 0700 to 1 hour after SS.
(c) Minier, Illinois Valley Parachute Club Arpt .....	25 NM; 122°Peoria .....	15,000	Daily SR to 1 hour after SS.
(c) Ottawa, Skydive Chicago Arpt .....	23.1 NM; 250° Joliet.....	17,500 AGL	2 NM radius. SR to 1 hour past SS.
(c) Rantoul National Aviation Center-Frank Elliott Fld .....	16.5 NM; 019° Champaign .....	13,500	2 NM radius. Daily 0600-2200.
Sterling .....	16 NM; 206° Polo .....	12,000 AGL	Year round SR-SS. 10 NM radius.
Tampico .....	23 NM; 200°Polo .....	12,500	1 NM radius. 1000-SS daily.
(c) Taylorville, Taylorville Muni.....	24 NM; 138° Spinner .....	15,000	5 NM radius. SR-1 hr past SS.
(c) Vandalia, Vandalia Muni .....	6.2 NM; 178° Vandalia .....	15,000	5 NM radius. Fri, Sat, Sun and holidays, SR-½ hour past SS.
<b>INDIANA</b>			
(c) Angola, Tri-State Steuben Co Arpt ....	33 NM; 040°Wolf Lake .....	14,500	5 NM radius, Mon, Wed, Fri, Sat, Sun 0900-SS.
Cloverdale, Swope Airstrip.....	25 NM; 085° Terre Haute.....	12,500	5 NM radius. SR-SS daily.
(c) Connersville.....	14 NM; 257° Richmond .....	13,500	5 NM radius. Daily SR-SS.
Crawfordsville, Crawfordsville Muni .....	27.2 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, 0900-SS daily.
Franklin Flying Fld .....	17 NM; 220° Shelbyville .....	13,500	5 NM radius. SR-SS daily.
(c) Goshen Muni .....	10 NM; 090° Goshen .....	14,500 AGL	1 NM radius. Weds, Fri-Sat-Sun SR-SS. <b>South Bend Rgnl Tower 132.05</b>
(c) Greensburg Muni .....	25 NM; 145° Shelbyville .....	12,000 AGL	2 NM radius. 0900-2000 daily.
Hobart Sky Ranch Arpt.....	15 NM; 077° Chicago Heights ...	10,000 AGL	2 NM radius. Weds, weekends 0800-SS.
Kingsbury.....	23 NM; 230°Gipper .....	1,500	0.3 NM radius. Occasional use.
Mentone.....	26 NM; 183° Goshen .....	12,500	3 NM radius. SR-SS daily.
Muncie, Horizon Fld .....	10 NM; 360°Muncie .....	13,000	Daily 0600-1900.
(c) Richmond, Richmond Muni.....	0 NM; Richmond .....	14,500	3 NM radius. SR-1 hour after SS-daily.
Veedsburg, Songer Arpt.....	24 NM; 220°Boiler.....	10,000	5 NM radius. Weekends and holidays, SR-SS.
<b>MICHIGAN</b>			
(c) Allegan, Padgham Fld.....	13 NM; 072° Pullman .....	10,700	2 NM radius. Daily SR-SS.
East Tawas, Iosco Co Arpt.....	8 NM; 192° Au Sable.....	15,000	5 NM radius. May-Oct SR-SS daily.
Fowlerville.....	20 NM; 225° Flint .....	12,000	5 NM radius. Apr-Oct 0800-SS.
Fremont Muni .....	16.2 NM; 008° Muskegon .....	12,000	3 NM radius. Apr-Oct Sat-Sun SR-SS.
Harbor Springs .....	17 NM; 235° Pellston.....	12,000	3 NM radius. May-Sep daily SR-SS.



## PARACHUTE JUMPING AREAS

407

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Marshall, Brooks Fld.....	14 NM; 107° Battle Creek.....	15,000	5 NM radius. Apr–Oct daily 0900–SS.
(c) Mount Pleasant Muni Arpt.....	Ø NM; Mount Pleasant.....	14,000	2 NM radius. Jan–Dec daily 0900–SS.
(c) Romeo.....	26 NM; 085° Pontiac.....	15,000	2 NM radius. Apr–Oct daily SR–SS.
(c) Saginaw, Saginaw Co H.W. Browne Arpt.....	11 NM; 125° Saginaw.....	12,000	2 NM radius. Apr–Nov daily SR–SS.
(c) Tecumseh, Meyers–Diver’s.....	22 NM; 272° Carleton.....	17,000	5 NM radius. Apr–Oct daily SR–SS.
<b>OHIO</b>			
Alliance, Barber Arpt.....	9 NM; 155° Akron.....	13,500	5 NM radius. Mon, Wed, Thur, Fri and weekends SR–SS.
Alliance, Miller Arpt.....	10 NM; 139° Akron.....	13,500 AGL	5 NM radius. Daily SR–SS.
Bellville.....	15 NM; 168° Mansfield.....	8,500	5 NM radius. SR–SS weekend.
(c) Bowling Green, Bordner Arpt.....	8 NM; 212° Waterville.....	14,000	Daily. Radius 2 NM.
(c) Celina, Lakefield Arpt.....	26.5 NM; 298° Rosewood.....	14,000	1 NM radius. Daily SR–SS.
Centerburg, Chapman Mem.....	12 NM; 325° Appleton.....	12,000	SR–SS weekends.
(c) Chesapeake, Lawrence Co Airpark.....	26 NM; 052° Newcombe.....	11,000	1 NM radius. 0900–2300 Sat–Sun. 1600–2300 Wed–Fri. <b>Tri–State/Milton J. Ferguson Field Tower 119.75</b>
(c) Circleville, Clark Dream Strip.....	13 NM; 332° Yellow Bud.....	17,500	2 NM radius. Wed 0600–Sun 2400. <b>Port Columbus Intl Tower 125.95</b>
Commercial Point.....	32 NM; 233° Appleton.....	10,000	0800–2100 Sat, Sun.
Findlay.....	9 NM; 355° Findlay.....	12,500 AGL	Daily.
Fulton County Arpt.....	24.5; 295° Waterville.....	10,500	Daily SR–SS.
(c) Garrettsville, Gates Arpt.....	11 NM; 172° Chardon.....	13,500 AGL	SR–SS daily.
Grafton, Mole Arpt.....	10 NM; 139° Dryer.....	12,500	0700–0930 daily.
Lebanon, Lebanon–Warren Co Arpt.....	21 NM; 280° Midwest.....	14,500 AGL	5 NM radius. Daily SR–SS.
Mansfield.....	4 NM; 132° Mansfield.....	3,000	3 NM radius. Tue–Fri 0800–2200. Unit training assemblies 1 weekend a month.
Ottawa, Putnam County Arpt.....	10.9 NM; 298° Findlay.....	10,500 AGL	SR–2400.
(c) Petersburg.....	16NM; 294° Eilwood City.....	12,500 AGL	2 NM radius. Mon–Fri 1700–SS, weekends SR–SS.
(c) Rittman, Hilty Fld.....	21 NM; 314° Briggs.....	16,000 AGL	5 NM radius. Daily 1 hr before SR–1 hour after SS.
Salem, Phillis Lakefront Arpt.....	27 NM; 088° Briggs.....	10,000	Evening and weekends to SS
Stonelick Parachute Center.....	27 NM; 068° Cincinnati.....	10,000	SR–SS daily.
Sycamore.....	25 NM; 285° Mansfield.....	12,500 AGL	1 NM radius. Daily SR–SS.
Van Wert County.....	27.3 NM; 104° Fort Wayne.....	10,000	Weekdays 1600–SS, Weekends SR–SS
Vickery, Wrights Fld.....	12 NM; 270° Sandusky.....	10,000 AGL	SR–SS weekends.
(c) Xenia, Skydive Green County Inc.....	32 NM; 129° Dayton.....	12,500 AGL	Daily SR–2400.
<b>WISCONSIN</b>			
(c) Baldwin Arpt.....	45 NM; 095° Gopher.....	15,000 AGL	Wed–Fri 1500–½ hour past SS, Weekends SR–½ hour past SS.
(c) Bristol, Winfield Arpt.....	37.5 NM; 160° Badger.....	12,500 AGL	SR–½ 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–½ hour past SS.
Edgerton, Jana Arpt.....	20 NM; 142° Madison.....	11,000	10 NM radius. Wed–Sun & Holidays SR–SS.
(c) Fort Atkinson Muni.....	25 NM; 247° Badger.....	14,000	3 NM radius. Daily SR–SS.
Lake Delton.....	3 NM; 332° Dells.....	12,500	Daily May 15–Sept 25.
(c) Lancaster Muni Arpt.....	22.8 NM; 359° Dubuque.....	13,500 AGL	2 NM radius. Sat–Sun 0900–1 hr past SS. Wed and Fri 1500–1 hr past SS.
(c) Marshall, Mathaire Fld.....	16 NM; 058° Madison.....	12,500 AGL	SR–½ hour past SS.
(c) Oshkosh.....	8 NM; 293° Oshkosh.....	13,500 AGL	Daily SR–SS.
(c) Pulaski, Carter Arpt.....	5 NM; 350° Green Bay.....	12,000 AGL	Daily SR–SS.
(c) Shiocton.....	17 NM; 250° Green Bay.....	13,500	5 NM SR–SS daily.
(c) Superior, Richard I Bong.....	8 NM; 143° Duluth.....	12,500 AGL	3 NM radius. Daily SR–1 hour past SS.

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown —route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

## CG-21 WORLD AERONAUTICAL CHART

39th Edition, 24 Sep 2009

### OBSTRUCTIONS

**22 Oct 2009** Add obst 1348' MSL (600' AGL), 34°15'06"N, 84°59'12"W.

Change obst from 312' MSL to 1312' MSL, 33°35'33"N, 083°58'31"W.

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

### AIRPORTS

**22 Oct 2009** Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W.

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

### NAVAIDS

**22 Oct 2009 – 8 Apr 2010** No Major Changes.

### AIRSPACE

**22 Oct 2009 – 8 Apr 2010** No Major Changes.

### SPECIAL USE AIRSPACE

**22 Oct 2009 – 8 Apr 2010** No Major Changes.

### MILITARY TRAINING ROUTES

**22 Oct 2009 – 8 Apr 2010** No Major Changes.

### MISCELLANEOUS

**22 Oct 2009 – 8 Apr 2010** No Major Changes.

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**CHICAGO HELICOPTER ROUTE CHART**  
**5th Edition, 12 May 2005****OBSTRUCTIONS**

**12 May 2005 – 7 Jul 2005** No Major Changes.

**1 Sep 2005** Add obst 896' MSL (300' AGL) UC, 41°46'40"N, 87°49'16"W.

**27 Oct 2005 – 5 Jul 2007** No Major Changes.

**30 Aug 2007** Change group obst from 1780'MSL (1195'AGL) to 1973'MSL (1375'AGL)UC, 41°53'20"N, 87°37'36"W.

**25 Oct 2007** Change obst from 1130'MSL (335'AGL) to 1195' MSL (400'AGL), 41°36'01"N, 87°58'44"W.

**20 Dec 2007 – 31 Jul 2008** No Major Changes.

**25 Sep 2008** Add obst 968' MSL (370'AGL)UC, 41°34'40"N, 87°31'33"W.

**20 Nov 2008 – 17 Dec 2009** No Major Changes.

**11 Feb 2010** Add obst 2589' MSL (2000'AGL) UC, 41°53'24"N, 87°36'54"W.

**8 Apr 2010** NO Major Changes.

**AIRPORTS**

**12 May 2005 – 7 Jul 2005** No Major Changes.

**1 Sep 2005** Delete MILL ROSE arpt, 42°04'38"N, 88°09'35"W.

**27 Oct 2005** Delete DARIEN-WOODRIDGE FIRE DEPT heliport, 41° 45'15"N, 88°00'26"W.

**22 Dec 2005 – 5 Jul 2007** No Major Changes.

**30 Aug 2007** Change CTAF freq 123.05 to 122.9 at SCHAUMBURG MUNI HELISTOP heliport, 42°02'53"N, 88°03'09"W.

Delete ADDISON FIRE DEPARTMENT STATION 3 heliport, 41°55'48"N, 88°02'28"W.

**25 Oct 2007 – 10 Apr 2008** No Major Changes.

**5 Jun 2008** Delete LANDIS PLASTICS heli, 41°40'43"N, 87°45'45"W.

Delete CRYSTAL LAKE HOLIDAY INN heli, 42°13'14"N, 88°17'05"W.

Delete CLARK heli, 42°22'06"N, 87°59'30"W.

**31 Jul 2008 – 20 Nov 2008** No Major Changes.

**15 Jan 2009**

Change CHICAGO O'HARE ATCT frequencies from 120.75(S), 126.9(N), 127.925 132.7 390.9 to 120.75 126.9 (CNTR TWR), 132.7 390.9 (CNTR TWR), 135.925 (N TWR), 41°58'51"N, 87°54'23"W.

**12 Mar 2009** No Major Changes.

**7 May 2009** Delete SEARS MERCHANDISE GROUP heli, 42°04'35"N, 088°13'01"W.

Change CHICAGO O'HARE ATCT freq from 135.925(N TWR) to 128.15(N TWR), 41°58'51"N, 87°54'23"W.

**2 Jul 2009 – 11 Feb 2010** No Major Changes.

**8 Apr 2010** Delete LEFKOWITZ heli, 42°09'40"N, 87°59'10"W.

Delete SHERMAN heli, 42°03'16"N, 88°16'50"W.

**NAVAIDS**

**12 May 2005 – 8 Apr 2010** No Major Changes.

**AIRSPACE**

**12 May 2005 – 25 Sep 2008** No Major Changes.

**20 Nov 2008** Change CHICAGO Class B freq from 128.45 to 133.625.

**12 Mar 2009 – 8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**12 May 2005 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**12 May 2005 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**12 May 2005 – 17 Dec 2009** No Major Changes.

**11 Feb 2010** Change MEF 2<sup>5</sup> to 2<sup>7</sup> in quadrant 41°45'–42°00'N, 87°30'–87°45'W.

**8 Apr 2010** No Major Changes.

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**CHICAGO SECTIONAL**  
**79th Edition, 22 Oct 2009**

**OBSTRUCTIONS****22 Oct 2009** No Major Changes.**17 Dec 2009** Add obst 1055' MSL (268' AGL) UC, 40°39'52"N, 90°44'58"W.

Add obst 1047' MSL (240' AGL) UC, 40°02'51"N, 86°49'03"W.

Add obst 1270' MSL (600' AGL) UC, 41°38'06"N, 87°02'59"W.

Add obst 955' MSL (255' AGL) UC, 41°19'16"N, 87°12'38"W.

Add obst 875' MSL (215' AGL) UC, 41°30'57"N, 87°59'55"W.

Add obst 1087' MSL (260' AGL) UC, 43°58'08"N, 89°14'37"W.

Add obst 901' MSL (268' AGL) UC, 40°48'02"N, 90°10'30"W.

Add obst 984' MSL (250' AGL) UC, 41°01'59"N, 89°13'51"W.

Add obst 773' MSL (260' AGL) UC, 40°48'28"N, 89°34'47"W.

Add obst 1078' MSL (300' AGL) UC, 41°18'40"N, 90°10'40"W.

Add obst 1017' MSL (260' AGL) UC, 40°53'36"N, 89°02'03"W.

Add obst 998' MSL (258' AGL) UC, 40°13'17"N, 88°57'55"W.

Add obst 1200' MSL (450' AGL) UC, 40°37'48"N, 88°46'53"W.

Add obst 795' MSL (298' AGL) UC, 40°13'44"N, 90°45'34"W.

Add obst 974' MSL (228' AGL) UC, 40°52'58"N, 89°07'42"W.

Add obst 1428' MSL (280' AGL) UC, 44°15'56"N, 89°25'00"W.

Add obst 1295' MSL (299' AGL) UC, 40°17'18"N, 85°00'34"W.

Add obst 1054' MSL (310' AGL) UC, 40°12'26"N, 87°05'29"W.

Add obst 1119' MSL (260' AGL) UC, 40°56'34"N, 85°39'55"W.

Add obst 1220' MSL (330' AGL) UC, 41°15'05"N, 85°38'22"W.

Add obst 1017' MSL (325' AGL) UC, 41°15'57"N, 86°44'10"W.

Add obst 945' MSL (250' AGL) UC, 41°04'17"N, 86°46'20"W.

Add obst 1105' MSL (260' AGL) UC, 40°39'20"N, 85°09'16"W.

Add obst 1509' MSL (349' AGL) UC, 44°03'59"N, 92°01'14"W.

Add obst 1680' MSL (350' AGL) UC, 43°39'34"N, 92°17'59"W.

Add obst 1650' MSL (350' AGL) UC, 43°34'13"N, 91°36'42"W.

Add obst 1599' MSL (349' AGL) UC, 43°55'34"N, 91°26'10"W.

Add obst 1526' MSL (350' AGL) UC, 43°40'08"N, 91°24'15"W.

Add obst 1508' MSL (350' AGL) UC, 43°33'02"N, 91°21'41"W.

Add obst 1559' MSL (349' AGL) UC, 44°06'11"N, 91°51'18"W.

Add obst 1598' MSL (350' AGL) UC, 43°52'58"N, 92°00'11"W.

Add obst 1570' MSL (350' AGL) UC, 43°48'39"N, 91°38'41"W.

Add windmill farm. 1142' UC is highest MSL, 40°38'31"N, 86°58'09"W.

Add windmill farm. 1111' UC is highest MSL, 41°06'48"N, 88°39'20"W.

Add windmill farm. 1230' UC is highest MSL, 40°41'52"N, 87°15'19"W.

Add windmill farm. 1163' UC is highest MSL, 40°56'36"N, 88°24'22"W.

**11 Feb 2010** Add obst 1410' MSL (630' AGL) UC, 40°03'14"N, 85°59'22"W.

Add obst 993' MSL (285' AGL) UC, 40°46'21"N, 86°29'33"W.

Add obst 1324' MSL (276' AGL) UC, 41°41'02"N, 84°54'15"W.

Add obst 837' MSL (235' AGL) UC, 41°28'55"N, 88°01'32"W.

Add obst 1049' MSL (256' AGL) UC, 41°05'37"N, 90°26'52"W.

Add obst 784' MSL (260' AGL), 40°18'17"N, 89°39'46"W.

Add obst 844' MSL (268' AGL), 40°18'18"N, 90°11'32"W.

Add obst 2589' MSL (2000' AGL) UC, 41°53'24"N, 87°36'54"W.

Add obst 939' MSL (213' AGL) UC, 40°19'20"N, 88°59'07"W.

Add obst 1399' MSL (320' AGL) UC, 43°45'01"N, 90°15'33"W.

Add obst 1227' MSL (310' AGL) UC, 43°56'20"N, 87°54'38"W.

Add obst 1003' MSL (258' AGL) UC, 40°12'40"N, 88°44'43"W.

Add obst 1156' MSL (300' AGL) UC, 41°49'10"N, 91°44'59"W.

Add obst 937' MSL (258' AGL) UC, 40°13'52"N, 90°59'17"W.

Add obst 959' MSL (258' AGL) UC, 40°55'56"N, 90°00'46"W.

Add obst 893' MSL (258' AGL) UC, 40°19'55"N, 89°19'14"W.

Add obst 969' MSL (258' AGL) UC, 40°18'41"N, 88°20'24"W.

Add obst 916' MSL (255' AGL) UC, 40°37'06"N, 87°41'28"W.

Add obst 1023' MSL (266' AGL) UC, 40°25'00"N, 87°57'08"W.

Add obst 902' MSL (265' AGL) UC, 40°52'57"N, 87°44'23"W.

**8 Apr 2010** Add obst 1164' MSL (400' AGL) UC, 40°10'06"N, 89°05'56"W.

Add obst 1015' MSL (310' AGL) UC, 40°27'04"N, 87°13'40"W.

Add obst 899' MSL (260' AGL) UC, 40°17'03"N, 91°35'12"W.

Add obst 903' MSL (258' AGL), 40°17'26"N, 90°54'33"W.

Add obst 998' MSL (258' AGL), 40°37'59"N, 90°09'07"W.

Add obst 900' MSL (250' AGL), 40°06'39"N, 90°33'35"W.

Add obst 1053' MSL (258' AGL), 41°19'19"N, 90°29'29"W.

Add obst 1370' MSL (500' AGL) UC, 41°25'24"N, 84°51'36"W.

Add obst 1425' MSL (270' AGL) UC, 44°10'54"N, 89°22'36"W.

Add obst 1587' MSL (262' AGL) UC, 43°17'16"N, 92°25'42"W.

Add obst 930' MSL (260' AGL), 41°22'16"N, 89°29'02"W.

Add obst 1774' MSL (398' AGL) UC, 43°24'22"N, 92°29'54"W.

**CONTINUED ON NEXT PAGE**

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**AIRPORTS****22 Oct 2009** No Major Change.**17 Dec 2009** Add CTAF 122.9 at FLYING FEATHERS arpt, 44°03'40"N, 88°11'42"W.

Delete KUNTZ arpt, 40°43'23"N, 88°52'00"W.

Delete MURKS arpt, 40°44'20"N, 90°22'50"W.

**11 Feb 2010** Add CTAF 122.9 at DYERSVILLE arpt, 42°29'46"N, 91°10'47"W.

Add RP 29 to DYERSVILLE arpt, 42°29'46"N, 91°10'47"W.

**8 Apr 2010** Delete BUSBOOM arpt, 40°18'40"N, 88°00'55"W.

Delete WALDERS arpt, 41°39'11"N, 89°00'05"W.

Delete abandoned arpt symbol, 42°22'30"N, 88°19'30"W.

**NAVAIDS****22 Oct 2009** No Major Changes.**17 Dec 2009** Shutdown KETTLE MORAIN NDB, 43°25'30"N, 88°07'38"W.**11 Feb 2010** Delete BELLE PLAINE NDB, 41°53'08"N, 92°16'59"W.**8 Apr 2010** Delete GARRISON NDB, 42°13'18"N, 92°01'13"W.**AIRSPACE****22 Oct 2009** No Major Changes.**17 Dec 2009** Revise PEORIA, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at 40°54'00"N, 89°59'00"W; to 40°53'31"N, 89°41'35"W; to 40°54'41"N, 89°35'28"W; to 40°52'16"N, 89°29'22"W; to 40°46'40"N, 89°27'38"W; to 40°44'01"N, 89°29'35"W; to 40°22'00"N, 89°32'00"W; to lat.40°26'00"N, 90°07'00"W; to 40°34'00"N, 90°12'00"W; to 40°47'00"N, 90°08'00"W; to the point of beginning.

Revise WINONA, MN Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Winona Municipal Airport-Max Conrad Field, and within 8 miles southwest and 4 miles northeast of the 121° bearing from the airport extending from the 7-mile radius to 21 miles southeast of the airport, excluding that airspace within the La Crosse, WI Class D airspace area.

Revise PLATTEVILLE, WI Class E: That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Platteville Municipal Airport and within 4 miles each side of the 145° bearing from the airport extending from the 7.4-mile radius to 10.2 miles southeast of the airport.

**11 Feb 2010 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Change MEF 2<sup>5</sup> to 2<sup>7</sup> in quadrant 41°30'-42°00'N, 87°30'-88°00'W.**8 Apr 2010** Change MEF 1<sup>8</sup> to 1<sup>9</sup> in quadrant 43°00'-43°30'N, 92°00'-92°30'W.**CHICAGO TERMINAL AREA CHART****79th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 2589' MSL (2000' AGL) UC, 41°53'24"N, 87°36'54"W.**8 Apr 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Delete abandoned arpt symbol, 42°22'30"N, 88°19'30"W.**NAVAIDS****22 Oct 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Change MEF 2<sup>5</sup> to 2<sup>7</sup> in quadrant 41°45'-42°00'N, 87°30'-87°45'W.**8 Apr 2010** No Major Changes.

**CINCINNATI SECTIONAL**  
**83rd Edition, 17 Dec 2009**

**OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1129' MSL (300' AGL) UC, 38°29'49"N, 82°51'18"W.

Add obst 1276' MSL (300' AGL) UC, 38°24'01"N, 83°09'38"W.

Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.

Add obst 1522' MSL (258' AGL) UC, 39°39'44"N, 80°04'00"W.

Add obst 1580' MSL (289' AGL) UC, 39°43'33"N, 80°12'37"W.

Add obst 2642' MSL (304' AGL) UC, 38°24'24"N, 80°47'10"W.

Add windmill farm. 4411' MSL UC, 38°05'27"N, 80°25'48"W.

**8 Apr 2010** Add obst 1566' MSL (204' AGL) UC, 37°39'55"N, 83°57'21"W.

Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1385' MSL (279' AGL) UC, 36°10'15"N, 84°02'17"W.

Add obst 1578' MSL (235' AGL) UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255' AGL) UC, 36°46'20"N, 84°45'59"W.

Add obst 1170' MSL (280' AGL) UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299' AGL) UC, 38°16'32"N, 84°57'02"W.

Add obst 1734' MSL (314' AGL) UC, 37°09'53"N, 83°23'10"W.

Add obst 1477' MSL (255' AGL) UC, 36°55'42"N, 84°14'33"W.

Add obst 786' MSL (310' AGL) UC, 36°14'41"N, 78°19'50"W.

Add obst 2210' MSL (260' AGL) UC, 36°23'13"N, 84°20'11"W.

Add obst 4716' MSL (389' AGL) UC, 38°04'46"N, 80°32'37"W.

Add obst 1695' MSL (315' AGL) UC, 37°10'09"N, 83°31'54"W.

Add obst 1792' MSL (306' AGL) UC, 37°36'25"N, 83°59'58"W.

Add obst 1138' MSL (300' AGL) UC, 38°20'21"N, 82°47'08"W.

Add obst 1280' MSL (258' AGL) UC, 38°51'21"N, 82°55'52"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

Add obst 2610' MSL (415' AGL) UC, 38°49'04"N, 79°51'29"W.

Add obst 1612' MSL (311' AGL) UC, 38°09'58"N, 81°12'13"W.

Add obst 2509' MSL (315' AGL) UC, 39°02'16"N, 79°56'33"W.

Add obst 2434' MSL (315' AGL) UC, 39°00'23"N, 79°48'52"W.

Add obst 2422' MSL (289' AGL) UC, 39°18'45"N, 79°41'09"W.

Add obst 4726' MSL (389' AGL) UC, 38°03'56"N, 80°29'48"W.

Add obst 1917' MSL (290' AGL) UC, 39°24'46"N, 80°03'09"W.

Add obst 2314' MSL (260' AGL) UC, 37°46'35"N, 81°22'05"W.

Add obst 1872' MSL (408' AGL) UC, 37°41'43"N, 81°38'23"W.

Add obst 1433' MSL (340' AGL) UC, 38°18'44"N, 82°13'42"W.

Add obst 1798' MSL (360' AGL) UC, 39°29'40"N, 80°23'16"W.

Add obst 3352' MSL (315' AGL) UC, 38°21'38"N, 80°38'51"W.

Add obst 1772' MSL (315' AGL) UC, 39°35'16"N, 80°15'02"W.

Add obst 1318' MSL (300' AGL) UC, 38°13'32"N, 82°27'05"W.

Add obst 4248' MSL (320' AGL) UC, 37°46'25"N, 80°42'19"W.

Add obst 1498' MSL (289' AGL) UC, 39°42'45"N, 80°10'06"W.

Add obst 2189' MSL (289' AGL) UC, 39°19'20"N, 79°49'37"W.

Add obst 2905' MSL (360' AGL) UC, 38°09'10"N, 81°06'53"W.

Change windmill farm highest MSL from 4411' MSL to 4726' MSL (389' AGL) UC, 38°03'46"N, 80°30'08"W.

**AIRPORTS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete KNORE arpt, 38°50'15"N, 82°50'05"W.

Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

**8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009** No Major Changes.**11 Feb 2010** Add MOUNTAIN CITY, TN Class E. That airspace extending upward from 700 feet above the surface within a 6.7-mile radius of the Johnson County Airport and within 1.3 miles each side of the 065° bearing from the airport extending from the 6.7-mile radius to 10.9 miles northeast of the airport.**8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change MEF 4<sup>7</sup> to 4<sup>9</sup> in quadrant 38°00'-38°30'N, 80°30'-81°00'W.

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**CINCINNATI TERMINAL AREA CHART****22nd Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46N, 84°59'04"W.**8 Apr 2010** Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W. Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.**AIRPORTS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.**8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

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**CLEVELAND TERMINAL AREA CHART**

73rd Edition, 8 Apr 2010

**OBSTRUCTIONS**

8 Apr 2010 No Major Changes.

**AIRPORTS**

8 Apr 2010 No Major Changes.

**NAVAIDS**

8 Apr 2010 No Major Changes.

**AIRSPACE**

8 Apr 2010 No Major Changes.

**SPECIAL USE AIRSPACE**

8 Apr 2010 No Major Changes.

**MILITARY TRAINING ROUTES**

8 Apr 2010 No Major Changes.

**MISCELLANEOUS**

8 Apr 2010 No Major Changes.

**DETROIT HELICOPTER ROUTE CHART**

1st Edition, 4 Aug 2005

**OBSTRUCTIONS**

1 Sep 2005 No Major Changes.

27 Oct 2005 Add group obst 1009' MSL (388' AGL) UC, 42°03'58"N, 83° 23'40"W.

22 Dec 2005 – 12 Mar 2009 No Major Changes.

7 May 2009 Add obst 1293' MSL (330' AGL), 42°09'30"N, 84°01'31"W.

2 Jul 2009 – 8 Apr 2010 No Major Changes.

**AIRPORTS**

1 Sep 2005 Add SELFRIDGE ANGB ATCT 340.7, 42°36'46"N, 82°49'54"W.

27 Oct 2005 Delete HYNES arpt, 42°36'39"N, 83°43'58"W.

22 Dec 2005 – 8 Jun 2006 No Major Changes.

3 Aug 2006 Delete CTAf freq. 122.9 at SALINE arpt., 42°08'47"N, 83°47'31"W.

28 Sep 2006 – 10 May 2007 No Major Changes.

5 Jul 2007 Delete CARRIAGE LANE arpt, 42°27'52"N, 84°02'05"W.

30 Aug 2007 – 14 Feb 2008 No Major Changes.

10 Apr 2008 Delete FULLER heliport, 42°33'34"N, 83°10'40"W.

5 Jun 2008 – 31 Jul 2008 No Major Changes.

25 Sep 2008 Add SELFRIDGE ANGB ATCT freq 225.4, 42°36'30"N, 82°50'07"W.

20 Nov 2008 – 7 May 2009 No Major Changes.

2 Jul 2009 Delete INDEPENDENCE GREEN heliport, 42°28'12"N, 83°25'09"W. Delete COBO HALL heliport, 42°19'33"N, 83°02'52"W.

27 Aug 2009 – 17 Dec 2009 No Major Changes.

11 Feb 2010 Delete TECUMSEH arpt, 42°01'59"N, 83°52'37"W.

8 Apr 2010 No Major Changes.

**NAVAIDS**

1 Sep 2005 – 13 Apr 2006 No Major Changes.

8 Jun 2006 Delete LAUREL NDB, 42°14'38"N, 83°02'51"W.

3 Aug 2006 – 8 Apr 2010 No Major Changes.

**AIRSPACE**

1 Sep 2005 – 15 Mar 2007 No Major Changes.

10 May 2007 Change DETROIT Class B freq from 124.9 to 127.5.

5 Jul 2007 – 8 Apr 2010 No Major Changes.

**SPECIAL USE AIRSPACE**

1 Sep 2005 – 8 Apr 2010 No Major Changes.

**MILITARY TRAINING ROUTES**

1 Sep 2005 – 8 Apr 2010 No Major Changes.

**MISCELLANEOUS**

1 Sep 2005 – 16 Feb 2006 No Major Changes.

13 Apr 2006 Change MEF 1<sup>1</sup> to 1<sup>2</sup> in quadrant 42°00' – 42°15'N, 83°15' – 83°30' W.

8 Jun 2006 – 8 Apr 2010 No Major Changes.



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**DETROIT SECTIONAL**  
**80th Edition, 8 Apr 2010**

**OBSTRUCTIONS**

**8 Apr 2010** No Major Changes.

**AIRPORTS**

**8 Apr 2010** No Major Changes.

**NAVAIDs**

**8 Apr 2010** No Major Changes.

**AIRSPACE**

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**8 Apr 2010** No Major Changes.

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**DETROIT TERMINAL AREA CHART**  
**73rd Edition, 8 Apr 2010**

**OBSTRUCTIONS**

**8 Apr 2010** No Major Changes.

**AIRPORTS**

**8 Apr 2010** No Major Changes.

**NAVAIDs**

**8 Apr 2010** No Major Changes.

**AIRSPACE**

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**8 Apr 2010** No Major Changes.

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**GREEN BAY SECTIONAL**  
**79th Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1681' MSL (320' AGL) UC, 46°58'34"N, 92°36'23"W.

Add obst 1626' MSL (320' AGL) UC, 45°41'43"N, 91°40'07"W.

Add obst 1642' MSL (420' AGL) UC, 46°19'56"N, 91°34'14"W.

Add obst 1383' MSL (259' AGL) UC, 44°58'37"N, 90°58'24"W.

Add obst 1455' MSL (350' AGL) UC, 44°15'20"N, 92°26'17"W.

Add obst 1722' MSL (320' AGL) UC, 47°30'04"N, 92°19'29"W.

Add obst 1299' MSL (318' AGL) UC, 45°53'25"N, 92°23'40"W.

**8 Apr 2010** Add obst 1425' MSL (270' AGL) UC, 45°24'34"N, 91°36'42"W.

Add obst 1795' MSL (320' AGL) UC, 45°18'32"N, 89°28'56"W.

**AIRPORTS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009** No Major Changes.**11 Feb 2010** Shutdown BONG NDB, 46°41'29"N, 92°06'12"W.**8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

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## KANSAS CITY SECTIONAL

### 83rd Edition, 19 Nov 2009

**OBSTRUCTIONS**

**17 Dec 2009** Add obst 1174' MSL (305' AGL) UC, 36°05'01"N, 96°35'42"W.

Change to group obst 1178' MSL (335' AGL) UC, 37°01'30"N, 94°45'08"W.

Add obst 1460' MSL (280' AGL) UC, 36°32'20"N, 93°34'31"W.

Add obst 1624' MSL (339' AGL) UC, 36°02'15"N, 93°55'05"W.

Add obst 1591' MSL (315' AGL) UC, 36°53'31"N, 93°34'44"W.

Add obst 1230' MSL (320' AGL) UC, 40°11'57"N, 95°02'00"W.

**11 Feb 2010** Change obst from 827' MSL (243' AGL) to 882' MSL (300' AGL), 38°44'06"N, 89°57'02"W.

Add obst 722' MSL (260' AGL) UC, 38°17'56"N, 89°59'34"W.

Add obst 1305' MSL (305' AGL) UC, 38°05'01"N, 95°37'34"W.

Add obst 1799' MSL (276' AGL) UC, 37°13'06"N, 92°17'24"W.

Add obst 888' MSL (258' AGL) UC, 39°40'32"N, 89°50'15"W.

Add obst 1265' MSL (315' AGL) UC, 37°45'31"N, 90°46'15"W.

Add obst 1512' MSL (334' AGL) UC, 36°52'52"N, 92°00'19"W.

Add obst 879' MSL (258' AGL) UC, 39°56'42"N, 89°55'56"W.

Add obst 937' MSL (258' AGL) UC, 40°13'52"N, 90°59'17"W.

Add obst 1040' MSL (318' AGL) UC, 39°29'32"N, 91°58'26"W.

Add obst 836' MSL (242' AGL) UC, 40°01'00"N, 89°51'49"W.

Add obst 885' MSL (258' AGL) UC, 39°02'32"N, 89°53'08"W.

Add obst 838' MSL (258' AGL) UC, 39°50'25"N, 89°48'10"W.

Add obst 887' MSL (258' AGL) UC, 39°04'50"N, 89°48'26"W.

Add obst 1142' MSL (324' AGL) UC, 39°44'31"N, 92°14'37"W.

Add obst 947' MSL (320' AGL) UC, 39°57'22"N, 91°37'59"W.

Add windmill farm. 1522' is highest MSL, 40°05'46"N, 94°29'59"W.

Add windmill farm. 1540' is highest MSL, 40°12'42"N, 94°42'11"W.

**8 Apr 2010** Add obst 1419' MSL (275' AGL) UC, 39°14'53"N, 95°43'14"W.

Add obst 1101' MSL (260' AGL) UC, 39°30'57"N, 92°23'55"W.

Add obst 1565' MSL (334' AGL) UC, 37°06'24"N, 91°48'50"W.

Add obst 1132' MSL (260' AGL) UC, 39°17'56"N, 92°30'58"W.

Add obst 1491' MSL (298' AGL) UC, 36°15'37"N, 94°40'55"W.

Add obst 900' MSL (250' AGL) UC, 40°06'39"N, 90°33'35"W.

Add obst 1066' MSL (330' AGL) UC, 36°18'11"N, 91°24'06"W.

Add obst 1469' MSL (320' AGL) UC, 36°49'34"N, 91°48'00"W.

Add obst 977' MSL (260' AGL) UC, 39°09'51"N, 90°48'57"W.

Add obst 1087' MSL (265' AGL) UC, 39°57'13"N, 92°38'46"W.

Add obst 1031' MSL (215' AGL) UC, 39°40'44"N, 92°21'57"W.

Add obst 1187' MSL (275' AGL) UC, 37°55'01"N, 93°20'44"W.

Add obst 834' MSL (234' AGL) UC, 38°17'02"N, 90°35'42"W.

Add obst 955' MSL (232' AGL) UC, 38°19'22"N, 90°50'28"W.

**AIRPORTS**

**17 Dec 2009** Delete TERAMIRANDA arpt, 36°36'30"N, 94°52'21"W.

**11 Feb 2010** Delete RP 36 at MIDWEST NATL, 39°19'57"N, 94°18'35"W.

**8 Apr 2010** No Major Changes.

**NAVAIDS**

**17 Dec 2009** No Major Changes.

**11 Feb 2010** Delete BOONVILLE NDB, 38°56'58"N, 92°41'03"W. Shutdown KENNETT NDB, 36°13'43"N, 90°02'21"W.

**8 Apr 2010** No Major Changes.

**AIRSPACE**

**17 Dec 2009** Revise TOPEKA, KS Class D: That airspace extending upward from the surface to and including 3,600 feet MSL within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

Revise TOPEKA, KS Class E: That airspace within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Forbes Field Airport, and within 3.1 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles southeast of the airport, and within 3.5 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles northwest of the airport.

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Revise ST. LOUIS, MO Class E: That airspace extending upward from 700 feet above the surface within a 7.1-mile radius of Lambert-St. Louis International Airport, and within 4 miles southeast and 7 miles northwest of the Lambert- St. Louis International Airport Runway 24 ILS localizer course extending from the airport to 10.5 miles northeast of the ZUMAY LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert- St. Louis International Airport Runway 12R ILS localizer course extending from the airport to 10.5 miles northwest of the OBLIO LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert- St. Louis International Airport Runway 30L ILS localizer course extending from the airport to 8.7 miles southeast of the airport, and within a 6.8-mile radius of Spirit of St. Louis Airport, and within 3.9 miles each side of the 258° bearing from Spirit of St. Louis Airport extending from the 6.8-mile radius of Spirit of St. Louis Airport to 10.6 miles west of the airport, and within 2.6 miles each side of the 098° radial of the Forstell VORTAC extending from the 6.8-mile radius of Spirit of St. Louis Airport to 8.3 miles west of the airport, and within a 6.4-mile radius of St. Charles County Smartt Airport, and within a 6.9-mile radius of St. Louis Regional Airport, and within 4 miles each side of the 014° bearing from the Civic Memorial NDB extending from the 6.9-mile radius of St. Louis Regional Airport to 7 miles north of the airport, and within 4.4 miles each side of the 190° radial of the St. Louis VORTAC extending from 2 miles south of the VORTAC to 22.1 miles south of the VORTAC.

**11 Feb 2010** No Major Changes.

**8 Apr 2010** Revise ST. LOUIS, MO Class D: That airspace extending upward from the surface to and including 3,000 feet MSL within a 4.3-mile radius of Spirit of St. Louis Airport, and within 1 mile each side of the 258° bearing from the airport extending from the 4.3-mile radius to 4.6 miles west of the airport, excluding that airspace within the St. Louis, MO Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

**SPECIAL USE AIRSPACE**

**17 Dec 2009** No Major Changes.

**11 Feb 2010** Add SHIRLEY A MOA: That airspace beginning at 35°19'00"N, 92°38'00"W to 35°19'00"N, 93°12'00"W to 35°38'15"N, 93°35'00"W to 36°02'00"N, 93°13'00"W to 36°02'00"N, 92°38'00"W to the point of beginning.

Add SHIRLEY B MOA: That airspace beginning at 35°19'00"N, 92°38'00"W to 36°02'00"N, 92°38'00"W to 36°02'00"N, 91°55'00"W to 35°58'53"N, 91°46'00"W to 35°19'00"N, 92°02'00"W to the point of beginning.

**8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**17 Dec 2009 – 8 Apr 2010** No Major Changes.

**LAKE HURON SECTIONAL**

**79th Edition, 8 Apr 2010**

**OBSTRUCTIONS**

**8 Apr 2010** No Major Changes.

**AIRPORTS**

**8 Apr 2010** No Major Changes.

**NAVAIDS**

**8 Apr 2010** No Major Changes.

**AIRSPACE**

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**8 Apr 2010** No Major Changes.

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**MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART**  
**73rd Edition, 14 Jan 2010**

**OBSTRUCTIONS**

**11 Feb 2010** No Major Changes.

**8 Apr 2010** No Major Changes.

**AIRPORTS**

**11 Feb 2010** Delete RP 4, 22 at MAPLE LAKE arpt, 45°14'10"N, 93°59'08"W.

**8 Apr 2010** Change FLYING CLOUD ATCT freq from 118.1 to 119.15, 44°49'38"N, 93°27'30"W.

**NAVAIDS**

**11 Feb 2010** Change FLYING CLOUD VOR/DME position from 44°49'33"N, 93°27'24"W to 44°49'31"N, 93°26'34"W. Raise all outbound bearings from FLYING CLOUD VOR/DME by 6 degrees, 44°49'31"N, 93°26'34"W.

**8 Apr 2010** Change FLYING CLOUD VOR/DME freq 111.8 to 117.7, 44°49'32"N, 93°27'24"W.

**AIRSPACE**

**11 Feb 2010** Add MANKATO, MN Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Mankato Regional Airport, and within 2 miles each side of the 047° bearing from the airport extending from the 7-mile radius to 8 miles northeast of the airport; and within 4 miles each side of the 020° bearing from the airport extending from the 7-mile radius to 1.1 miles north of the airport; and within a 6-mile radius of the point in space serving Immanuel-St. Joseph's Hospital, 44°09'48"N, 93°57'40"W.

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

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**PITTSBURGH TERMINAL AREA CHART**  
**73rd Edition, 8 Apr 2010**

**OBSTRUCTIONS**

**8 Apr 2010** No Major Changes.

**AIRPORTS**

**8 Apr 2010** No Major Changes.

**NAVAIDS**

**8 Apr 2010** No Major Changes.

**AIRSPACE**

**8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**8 Apr 2010** No Major Changes.

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**ST. LOUIS SECTIONAL**  
**81st Edition, 17 Dec 2009**

**OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 1097' MSL (275' AGL) UC, 39°03'46"N, 84°59'04"W.

Add obst 1410' MSL (630' AGL) UC, 40°03'14"N, 85°59'22"W.

Change obst from 827' MSL (243' AGL) to 882' MSL (300' AGL), 38°44'06"N, 89°57'02"W.

Add obst 738' MSL (226' AGL) UC, 38°11'11"N, 89°40'09"W.

Add obst 722' MSL (260' AGL) UC, 38°17'56"N, 89°59'34"W.

Add obst 692' MSL (260' AGL) UC, 37°15'35"N, 88°58'50"W.

Add obst 851' MSL (349' AGL) UC, 38°45'25"N, 89°06'09"W.

Add obst 756' MSL (275' AGL) UC, 38°32'04"N, 89°31'26"W.

Add obst 865' MSL (220' AGL), 39°17'43"N, 88°00'03"W.

Add obst 1200' MSL (237' AGL) UC, 39°12'34"N, 86°38'31"W.

Add obst 917' MSL (227' AGL) UC, 37°53'08"N, 86°03'40"W.

Add obst 1003' MSL (258' AGL) UC, 40°12'40"N, 88°44'43"W.

Add obst 851' MSL (258' AGL) UC, 39°55'55"N, 89°40'00"W.

Add obst 888' MSL (258' AGL) UC, 39°40'32"N, 89°50'15"W.

Add obst 1265' MSL (315' AGL) UC, 37°45'31"N, 90°46'15"W.

Add obst 868' MSL (258' AGL) UC, 39°58'06"N, 89°43'48"W.

Add obst 879' MSL (258' AGL) UC, 39°56'42"N, 89°55'56"W.

Add obst 838' MSL (258' AGL) UC, 39°50'25"N, 89°48'10"W.

Add obst 885' MSL (258' AGL) UC, 39°02'32"N, 89°53'08"W.

Add obst 887' MSL (258' AGL) UC, 39°04'50"N, 89°48'26"W.

**8 Apr 2010** Add obst 1164' MSL (400' AGL) UC, 40°10'06"N, 89°05'56"W.

Add obst 1566' MSL (204' AGL) UC, 37°39'55"N, 83°57'21"W.

Add obst 817' MSL (300' AGL) UC, 38°37'03"N, 86°42'35"W.

Add obst 1142' MSL (295' AGL) UC, 38°45'58"N, 84°53'45"W.

Add obst 1022' MSL (256' AGL) UC, 37°30'50"N, 86°25'55"W.

Add obst 703' MSL (258' AGL) UC, 38°15'24"N, 89°03'24"W.

Add obst 900' MSL (250' AGL) UC, 40°06'39"N, 90°33'35"W.

Add obst 1385' MSL (279' AGL) UC, 36°10'15"N, 84°02'17"W.

Add obst 712' MSL (280' AGL) UC, 36°40'56"N, 88°44'19"W.

Add obst 1578' MSL (235' AGL) UC, 36°52'32"N, 84°12'59"W.

Add obst 1409' MSL (255' AGL) UC, 36°46'20"N, 84°45'59"W.

Add obst 863' MSL (280' AGL) UC, 37°48'34"N, 85°34'52"W.

Add obst 1133' MSL (299' AGL) UC, 38°20'55"N, 85°02'02"W.

Add obst 1170' MSL (280' AGL) UC, 38°15'12"N, 84°37'40"W.

Add obst 1199' MSL (299' AGL) UC, 38°16'32"N, 84°57'02"W.

Add obst 1119' MSL (265' AGL) UC, 38°26'43"N, 85°10'39"W.

Add obst 829' MSL (255' AGL) UC, 37°16'08"N, 86°40'28"W.

Add obst 902' MSL (255' AGL) UC, 36°45'38"N, 86°43'03"W.

Add obst 682' MSL (300' AGL) UC, 36°55'13"N, 87°58'37"W.

Add obst 1032' MSL (255' AGL) UC, 36°50'24"N, 85°56'34"W.

Add obst 905' MSL (310' AGL) UC, 37°51'44"N, 86°45'00"W.

Add obst 1477' MSL (255' AGL) UC, 36°55'42"N, 84°14'33"W.

Add obst 1052' MSL (255' AGL) UC, 37°05'29"N, 85°36'52"W.

Add obst 977' MSL (260' AGL) UC, 39°09'51"N, 90°48'57"W.

Add obst 834' MSL (234' AGL) UC, 38°17'02"N, 90°35'42"W.

Add obst 955' MSL (232' AGL) UC, 38°19'22"N, 90°50'28"W.

Add obst 787' MSL (400' AGL) UC, 36°15'29"N, 88°11'11"W.

Add obst 1178' MSL (286' AGL) UC, 36°30'51"N, 86°33'57"W.

Add obst 988' MSL (290' AGL) UC, 36°27'48"N, 87°37'08"W.

Add obst 2210' MSL (260' AGL) UC, 36°23'13"N, 84°20'11"W.

Add obst 1792' MSL (306' AGL) UC, 37°36'25"N, 83°59'58"W.

Add obst 1020' MSL (349' AGL) UC, 37°06'51"N, 87°56'32"W.

Add obst 887' MSL (259' AGL) UC, 39°35'02"N, 89°44'44"W.

Add obst 1008' MSL (216' AGL) UC, 39°20'01"N, 84°46'34"W.

Add obst 959' MSL (260' AGL) UC, 38°24'38"N, 90°45'42"W.

Add obst 962' MSL (215' AGL) UC, 37°41'57"N, 84°29'03"W.

**AIRPORTS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete ACTION arpt, 39°07'57"N, 84°49'43"W.

Delete RP 19, RP 14 at SMYRNA arpt, 36°00'32"N, 86°31'12"W.

**8 Apr 2010** Delete RICHARDSON arpt, 38°22'50"N, 87°13'14"W.**NAVAIDS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete CLAYE NDB, 39°03'23"N, 86°35'58"W.

Shutdown KENNETT NDB, 36°13'43"N, 90°02'21"W.

Shutdown LITCHFIELD NDB, 39°09'55"N, 89°40'32"W.

**8 Apr 2010** No Major Changes.

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**AIRSPACE****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Revise ST. LOUIS, MO. Class D: That airspace extending upward from the surface to and including 3,000 feet MSL within a 4.3-mile radius of Spirit of St. Louis Airport, and within 1 mile each side of the 258° bearing from the airport extending from the 4.3-mile radius to 4.6 miles west of the airport, excluding that airspace within the St. Louis, MO Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

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**ST. LOUIS TERMINAL AREA CHART****73rd Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009** No Major Changes.**11 Feb 2010** Change obst from 827'MSL (243'AGL) to 882'MSL (300'AGL), 38°44'06"N, 89°57'02"W.

Add obst 738'MSL (226'AGL)UC, 38°11'11"N, 89°40'09"W.

Add obst 722'MSL (260'AGL)UC, 38°17'56"N, 89°59'34"W.

Add obst 885'MSL (258'AGL)UC, 39°02'32"N, 89°53'08"W.

Add obst 887'MSL (258'AGL)UC, 39°04'50"N, 89°48'26"W.

**8 Apr 2010** Add obst 977'MSL (260'AGL)UC, 39°09'51"N, 90°48'57"W.

Add obst 834'MSL (234'AGL)UC, 38°17'02"N, 90°35'42"W.

Add obst 955'MSL (232'AGL)UC, 38°19'22"N, 90°50'28"W.

Add obst 959'MSL (260'AGL)UC, 38°24'38"N, 90°45'42"W.

**AIRPORTS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 8 Apr 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Revise ST. LOUIS, MO. Class D: That airspace extending upward from the surface to and including 3,000 feet MSL within a 4.3-mile radius of Spirit of St. Louis Airport, and within 1 mile each side of the 258° bearing from the airport extending from the 4.3-mile radius to 4.6 miles west of the airport, excluding that airspace within the St. Louis, MO Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.**SPECIAL USE AIRSPACE****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 8 Apr 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 8 Apr 2010** No Major Changes.

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**TWIN CITIES SECTIONAL**  
**79th Edition, 14 Jan 2010**

**OBSTRUCTIONS**

**11 Feb 2010** Add obst 1519' MSL (349' AGL) UC, 45°43'12"N, 94°23'04"W.  
**8 Apr 2010** Add obst 2523' MSL (398' AGL) UC, 47°07'12"N, 100°32'48"W.  
Add obst 1949' MSL (499' AGL) UC, 45°27'13"N, 98°48'12"W.  
Add obst 1688' MSL (299' AGL) UC, 45°45'56"N, 98°29'27"W.  
Add obst 2135' MSL (306' AGL) UC, 44°58'09"N, 99°10'36"W.  
Add obst 1465' MSL (225' AGL) UC, 46°40'26"N, 94°06'28"W.  
Add obst 1441' MSL (350' AGL) UC, 48°50'42"N, 95°50'20"W.  
Add obst 1647' MSL (300' AGL) UC, 47°01'13"N, 93°34'45"W.  
Add obst 1600' MSL (228' AGL) UC, 47°10'36"N, 93°31'49"W.

**AIRPORTS**

**11 Feb 2010** Delete RP 4, 22 at MAPLE LAKE arpt, 45°14'10"N, 93°59'08"W.  
**8 Apr 2010** Change FLYING CLOUD ATCT freq from 118.1 to 119.15, 44°49'38"N, 93°27'30"W.  
Add RP 9R to GRAND FORKS INTL arpt, 47°56'50"N, 97°10'25"W.

**NAVAIDS**

**11 Feb 2010** Change FLYING CLOUD VOR/DME position from 44°49'33"N, 93°27'24"W to 44°49'31"N, 93°26'34"W. Raise all outbound bearings from FLYING CLOUD VOR/DME by 6 degrees, 44°49'31"N, 93°26'34"W.  
**8 Apr 2010** Change FLYING CLOUD VOR/DME freq from 111.8 to 117.7, 44°49'32"N, 93°27'24"W.  
Add RP 9R to GRAND FORKS INTL arpt, 47°56'50"N, 97°10'25"W.

**AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

**MISCELLANEOUS**

**11 Feb 2010 – 8 Apr 2010** No Major Changes.

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## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
<b>Frankfort, IL (LL40)</b> Chicago App/Dep Con 133.1 285.6	L-28H
<b>Glasgow Industrial, MT (07MT)</b> Salt Lake Center App/Dep Con 126.85 305.2	H-1E, 2F, L-13D
<b>USAF Academy Bullseye Aux Airstrip, CO (CO90)</b> ASOS 118.325	L-10F
<b>West Kentucky Airpark, KY (5KY3)</b> Memphis Center App/Dep Con 133.65 292.15	L-16I
<b>William P Gwinn, FL (06FA)</b> Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z) Gnd Con 121.65 279.25	H-8I, L-23C

## CANADA

FACILITY NAME	CHART & PANEL
<b>Abbotsford, BC (CYXX)</b> ATIS 119.8 (1500-0700Z) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z) Gnd Con 121.8 MF 119.4 295.0 (0700-1500Z) (Shape irregular to 4500')	H-1B, L-12F
<b>Amos/Magny, QC (CYEY)</b> Montreal Center App/Dep Con 125.9	H-11B
<b>Atikokan Muni, ON (CYIB)</b> MF 122.3 (5 NM to 4500' No ground station)	L-14I
<b>Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)</b> AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025	H-11B, L-31D
<b>Bar River, ON (CPF2)</b> Toronto Center App/Dep Con 132.65	L-31C
<b>Bathurst, NB (CZBF)</b> Moncton Center App/Dep Con 134.25	L-32J
<b>Boundary Bay, BC (CZBB)</b> ATIS 125.5 (1500-0700Z) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z) Gnd Con 124.3 MF 118.1 (0700-1500Z) to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500')	H-1B, L-1E
<b>Brampton, ON (CNC3)</b> Toronto Trml App/Dep Con 119.3 253.1	L-31D
<b>Brandon Muni, MB (CYBR)</b> Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000')	H-2H
<b>Brantford, ON (CYFD)</b> Toronto Trml App/Dep Con 128.27	L-31D
<b>Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)</b> Montreal Center App/Dep Con 134.675	L-32G
<b>Bromont, QC (CZBM)</b> Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	L-32G
<b>Burlington Airpark, ON (CZBA)</b> Toronto Center App/Dep Con 119.3 253.1	L-31D
<b>Castlegar/West Kootenay Rgnl, BC (CYCG)</b> Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
<b>Centralia/James T. Fld Muni, ON (CYCE)</b> Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
<b>Charlottetown, PE (CYYG)</b> Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H-11E, L-32J
<b>Chatham-Kent, ON (CNZ3)</b> Cleveland Center App/Dep Con 132.25	H-10G, L-30G

FACILITY NAME	CHART & PANEL
<b>Collingwood, ON (CNY3)</b> Toronto Center App/Dep Con 124.02	H-11B, L-31D
<b>Cornwall Rgnl, ON (CYCC)</b> Boston Center App/Dep Con 135.25 377.1	L-32G
<b>Cranbrook/Canadian Rockies Intl, BC (CYXC)</b> Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
<b>Debert, NS (CCQ3)</b> Halifax Trml App/Dep Con 119.2	H-11E, L-32J
<b>Digby, NS (CYID)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>Downsview, ON (CYZD)</b> Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (1300-2300Z±, 3 NM to 1700')	H-11B, L-31E
<b>Drummondville, QC (CSC3)</b> Montreal Center App/Dep Con 132.35	L-32H
<b>Earlton (Timiskaming Rgnl), ON (CYXR)</b> MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
<b>Elliot Lake Muni, ON (CYEL)</b> Toronto Center App/Dep Con 135.4	L-31C
<b>Fort Frances Muni, ON (CYAG)</b> Minneapolis Center App/Dep Con 120.9	L-14H
<b>Fredericton Intl, NB (CYFC)</b> ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1200-2000Z±) Gnd Con 121.7 (Ltd hrs) MF 119.0 (2000-1200Z±, 5 NM to 3500')	H-11E, L-32I
<b>Goderich, ON (CYGD)</b> Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
<b>Greenwood, NS (CZVX)</b> ATIS 128.85 244.3 (1100-0000Z±) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	H-11E, L-32J
<b>Grimsby Air Park, ON (CNZ8)</b> Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
<b>Halifax/Shearwater, NS (CYAW)</b> ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
<b>Halifax/Stanfield Intl, NS (CYHZ)</b> ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 Apron Advisory 122.125	H-11E, L-32J
<b>Hamilton, ON (CYHM)</b> ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
<b>Kingston, ON (CYGK)</b> Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z±) MF 122.5 (1115-0400Z± 5 NM to 3300')	H-11C, L-31E, 32F
<b>Kitchener/Waterloo, ON (CYKF)</b> ATIS 125.1 (1200-0400Z±) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z±) Gnd Con 121.8 MF 126.0 (0400-1200Z± 5 NM to 4000')	H-11B, L-31D
<b>Lachute, QC (CSE4)</b> Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
<b>La Tuque, QC (CYLQ)</b> Montreal Center App/Dep Con 134.5	H-11C
<b>Langley, BC (CYNJ)</b> ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E

FACILITY NAME	CHART & PANEL
<b>Leamington, ON (CLM2)</b> Cleveland Center App/Dep Con 132.45	L-30F
<b>Lethbridge, AB (CYQL)</b> ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
<b>Lindsay, ON (CNF4)</b> Toronto Center App/Dep 134.25	L-31E, L-32F
<b>Liverpool/South Shore Rgnl, NS (CYAU)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>London, ON (CYXU)</b> 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
<b>Manitowaning/Manitoulin East Muni, ON (CYEM)</b> Toronto Center App/Dep 135.4 260.9	L-31C
<b>Maniwaki, QC (CYMW)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Mascouche, QC (CSK3)</b> 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
<b>Medicine Hat, AB (CYXH)</b> AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
<b>Midland/Huronina, ON (CYEE)</b> Toronto Center App/Dep 124.025	L-31D
<b>Miramichi, NB (CYCH)</b> Moncton Center App/Dep Con 123.7	H-11E, L-32J
<b>Moncton/Greater Moncton Intl, NB (CYQM)</b> 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
<b>Mont-Laurier, QC (CSD4)</b> Montreal Center App/Dep Con 126.57	L-32G
<b>Montreal Intl (Mirabel), QC (CYMX)</b> ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)</b> ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Cinc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/St-Hubert, QC (CYHU)</b> ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
<b>Muskoka, ON (CYQA)</b> AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
<b>Nanaimo, BC (CYCD)</b> Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
<b>North Bay, ON (CYYB)</b> ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	L-31E
<b>Oshawa, ON (CYOO)</b> ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	H-11B, L31D

FACILITY NAME	CHART & PANEL
<b>Ottawa/Carp, ON</b> (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
<b>Ottawa/Gatineau, QC</b> (CYND) Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
<b>Ottawa/MacDonald-Cartier Intl, ON</b> (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Cinc Del 119.4 Ottawa Dep Con 128.175	L-11C
<b>Owen Sound/Billy Bishop Rgnl, ON</b> (CYOS) Toronto Center App/Dep 132.575 290.6	L-31D
<b>Pelee Island, ON</b> (CYPT) Cleveland Center App/Dep Con 126.35 360.0	L-30F
<b>Pembroke, ON</b> (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
<b>Penticton, BC</b> (CYYP) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
<b>Peterborough, ON</b> (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25	H-11B, L-31E, 32F
<b>Pincher Creek, AB</b> (CZPC) Edmonton Center App/Dep Con 132.75 265.2	H-1D
<b>Pitt Meadows, BC</b> (CYPK) ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
<b>Quebec/Jean Lesage Intl, QC</b> (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
<b>Riviere Du Loup, QC</b> (CYRI) AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
<b>Rouyn Noranda, QC</b> (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
<b>Saint John, NB</b> (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
<b>Sarnia (Chris Hadfield), ON</b> (CYZR) Toronto Center 134.375	H-10G, 11B, L-30F
<b>Sault Ste Marie, ON</b> (CYAM) ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
<b>Sherbrooke, QC</b> (CYAM) AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
<b>South Renfrew Muni, ON</b> (CNP3) Montreal Center App/Dep 124.275	L-31E, 32F
<b>Southport, MB</b> (CYPG) ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
Springwater Barrie Airport, ON (CNA3) Toronto Center App/Dep Con 124.025	L-31D
St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215-0200Z) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z± 5 NM to 3300')	H-10H, 11B, L-31E
St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z± Nov-Mar 1300-0200Z) Gnd Con 121.7	L-32G
Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
Summerside, PE (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
Thunder Bay, ON (CYQT) ATIS 128.8 (1100-0400Z) Winnipeg Center App/Dep Con 132.125 (0400-1100Z) Tower 118.1 (1100-0400Z) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z± 5 NM to 4000')	H-2J, L-14J
Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 (1000-0500Z) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	H-11B
Toronto/Butterville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z) Gnd Con 121.8 MF 124.8 (0400-1200Z) No gnd station. 5 NM shape irregular to below 2500'	L-31E
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130-0400Z) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z) Gnd Con 121.7	L-31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z)	H-11B, L-31D
Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4	H-11C, L-31E, 32F
Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
Val-d'Or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z± 5 NM to 4000')	H-11B
Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Cinc Del 121.4	H-1B, L-1E

FACILITY NAME	CHART & PANEL
<b>Victoria Intl, BC (CYYJ)</b> ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
<b>Victoriaville, QC (CSR3)</b> Montreal Center App Con 132.35	L-32H
<b>Waterville/Kings Co Muni, NS (CCW3)</b> Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
<b>Warton, ON (CYVW)</b> Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
<b>Windsor, ON (CYQG)</b> ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
<b>Yarmouth, NS (CYQI)</b> Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

MEXICO

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









In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

## GENERAL INFORMATION

### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

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

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
  2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (\*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., .
- To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

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

### CHART CURRENCY INFORMATION

FAA procedure amendment number  $\leftarrow$  Amdt 11A 99365  $\rightarrow$  Date of latest change  
 $\leftarrow$  Orig 00365  $\rightarrow$

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### MISCELLANEOUS

- \* Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

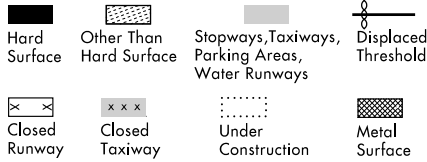


10042  
LEGEND

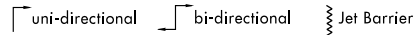
INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

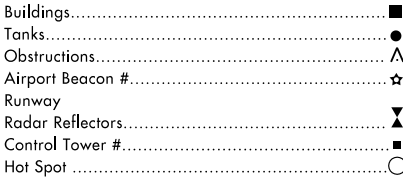


ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM

REFERENCE FEATURES



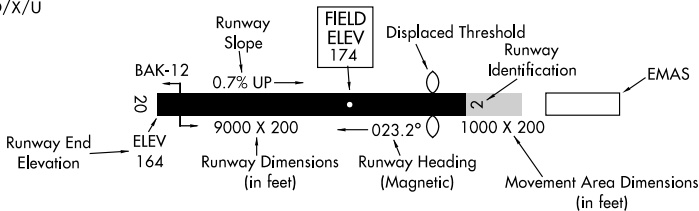
# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

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

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

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

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point.....

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

NOTE:

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

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

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

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

NOTE:

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

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 "HOT<sup>1</sup>", "HOT<sup>2</sup>", 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)	HOT <sup>1</sup>	Twy C and Rwy 11, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy C.
	HOT <sup>2</sup>	Twy A and Rwy 17-35, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the Twy A.
CHICAGO CHICAGO-O'HARE INTL (ORD)	HOT <sup>1</sup>	Taxiing t/c on Twy R cannot stop on Twy R between Rwy 09R-27L and Rwy 04L-22R.
	HOT <sup>2</sup>	Rwy 27L arrivals prohibited from turning onto Rwy 04L-22R without ATC clearance.
	HOT <sup>3</sup>	A/cft northeast bound on Twy B turning right onto Twy H use caution - close proximity to Rwy 09R-27L.
	HOT <sup>4</sup>	Ldg Rwy 22R t/c must receive clearance to cross Rwy 09R-27L on Twy A1.
	HOT <sup>5</sup>	Rwy 14L arrivals exiting Twy U5 use caution - close proximity to Rwy 09R-27L.
	HOT <sup>6</sup>	A/cft northwest bound on Twy U turning left onto Twy H use caution - close proximity to Rwy 09R-27L.
	HOT <sup>7</sup>	A/cft turning left onto Twy K from Twy T10 use caution to avoid inadvertent turn onto Twy M.
	HOT <sup>8</sup>	Twy S5 - north bound t/c only exiting Rwy 04R.
	HOT <sup>9</sup>	T/c inbound to the terminals from Twy G and Twy E can expect a right turn on Twy Z to avoid active rwys.
	HOT <sup>10</sup>	Ldg Rwy 27R first avbl turn off is Twy C1 6500' for Rwy 27R thld.
MOLINE QUAD CITY INTL (MLI)	HOT <sup>1</sup>	When holding short of Rwy 23 on Twy B2, be aware that it is a very short twy and the hold lines are very close to the ramp. On Twy A, you may be asked to hold short of the approach for Rwy 23.
	HOT <sup>2</sup>	Wrong Rwy Departure Risk. Intersection of three rwys. Be aware of hold short markings and signs. After entering the intersection, each rwy is identified by rwy location signs.
	HOT <sup>3</sup>	The holding position for Rwy 31 on Twy K is in an unusual location. Watch for holding position markings and signs as you apch.
	HOT <sup>4</sup>	The centerlines of Twy F and Twy H diverge on a gradual curve when proceeding east to west on the north ramp. Watch for the surface painted markings where the centerlines of Twy F and Twy H diverge to ensure the proper route is followed.
	HOT <sup>5</sup>	It is a short distance from the south tee parking area to the Rwy 05 hold lines on Twy K. Pilots are reminded they will be at the hold lines within seconds after beginning to taxi.

**INDIANA**

EVANSVILLE  
EVANSVILLE RGNL (EVV)

HOT<sup>1</sup>

Pilots taxiing to Rwy 09 enter the rwy mid-field. Do not taxi to the "numbers" without ATC clearance. Rwy 09-27 is a short distance from the General Aviation Ramp-use appropriate vigilance.

HOT<sup>2</sup>

Pilots cleared to taxi to Rwy 27 sometimes enter Rwy 27 without a clearance.

HOT<sup>3</sup>

Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance.

HOT<sup>4</sup>

Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance.

**MICHIGAN**

DETROIT  
DETROIT  
METROPOLITAN  
WAYNE CO (DTW)

HOT<sup>1</sup>

Intersection of Rwy 09L-27R and Rwy 04R-22L. When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

HOT<sup>2</sup>

Intersection of Rwy 09L-27R and Rwy 03L-21R. When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

HOT<sup>3</sup>

Twy F and Rwy 03L-21R - pilots taxiing on Twy F sometimes enter Rwy 03L-21R without a clearance.

JACKSON  
JACKSON CO-REYNOLDS FLD (JXN)

HOT<sup>1</sup>

Caution confusing signage.

HOT<sup>2</sup>

No signage.

**WISCONSIN**

JANESVILLE  
SOUTHERN WISCONSIN RGNL (JVL)

HOT<sup>1</sup>

Rwy 32 and Rwy 26 approach ends are closely aligned and may be confused when lining up for departure.

MILWAUKEE  
GENERAL MITCHELL INTL (MKE)

HOT<sup>1</sup>

Pilots taxiing northbound on Twy E for an intersection departure on Rwy 19R at Twy V can end up entering Rwy 07L-25R if they miss the right turn for Twy V. To avoid a runway incursion, pilots on Twy E should use extreme caution approaching Rwy 07L-25R.

HOT<sup>2</sup>

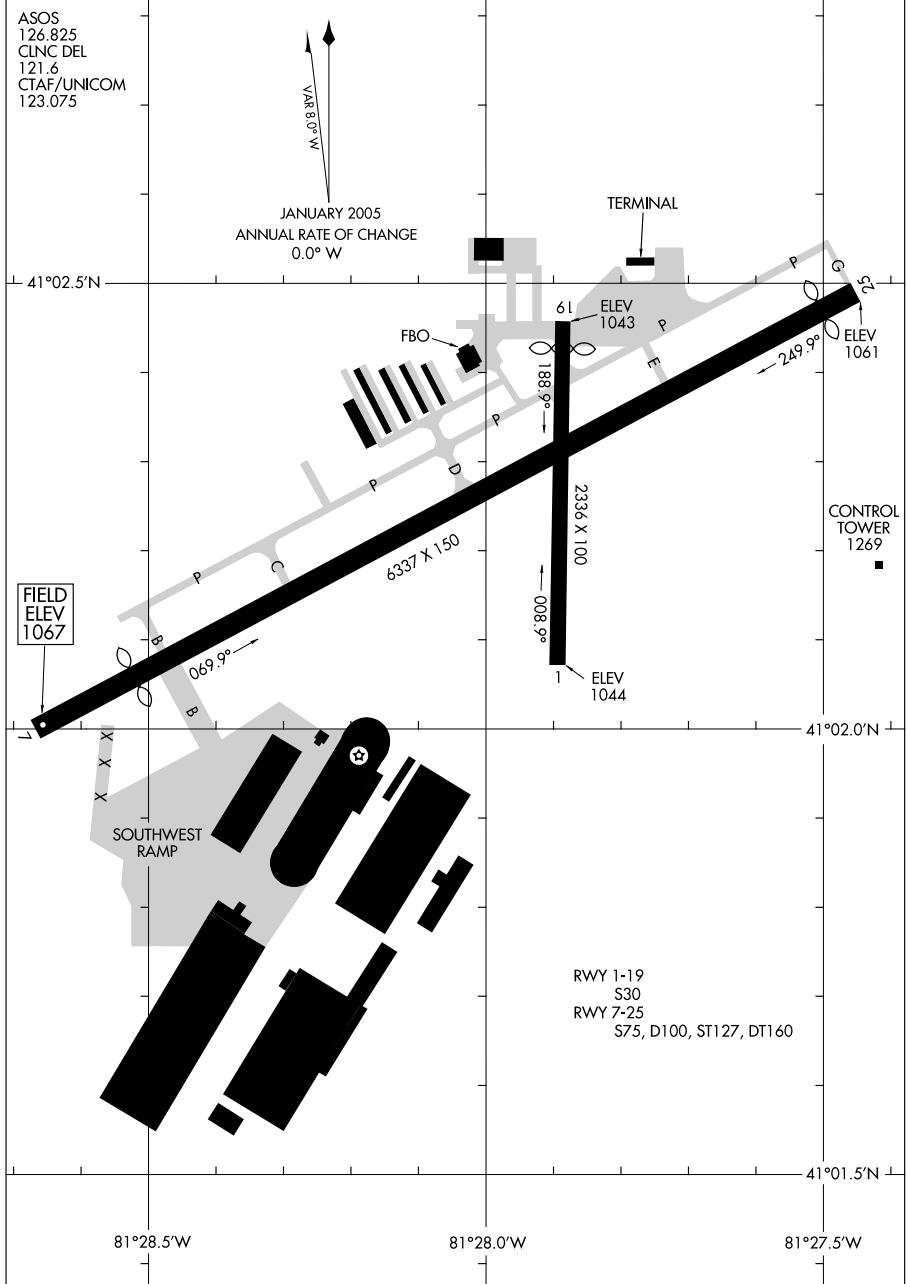
Use caution in the area of Twy M and Rwy 01L-19R. Pavement widens out as the taxiway approaches the runway and may cause confusion.

09071

# AIRPORT DIAGRAM

AL-6 (FAA)

AKRON FULTON INTL (AKR)  
AKRON, OHIO



# AIRPORT DIAGRAM

09071

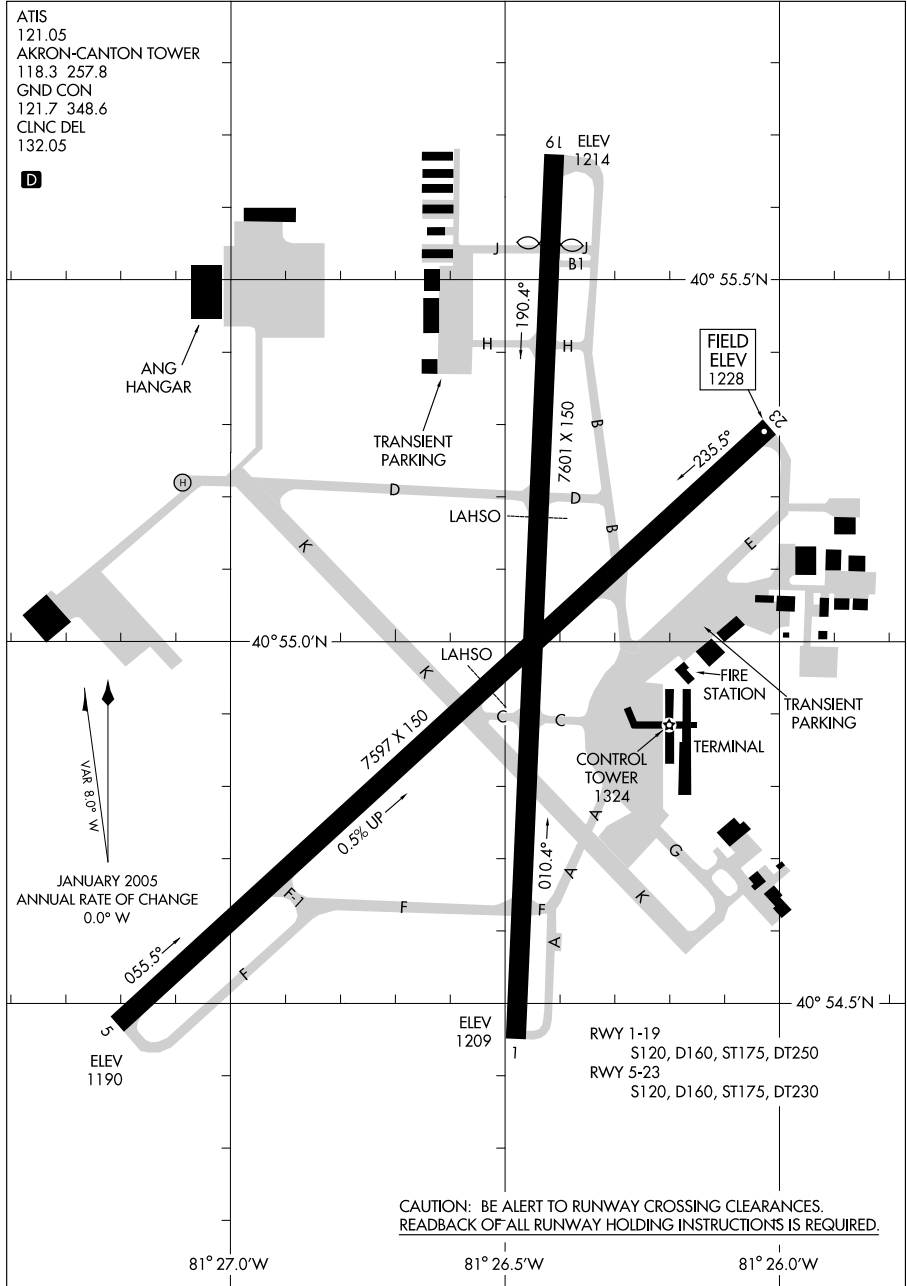
AKRON, OHIO  
AKRON FULTON INTL (AKR)

09015

AIRPORT DIAGRAM

AL-638 (FAA)

AKRON-CANTON RGNL (CAK)  
AKRON, OHIO



AIRPORT DIAGRAM

09015

AKRON, OHIO  
AKRON-CANTON RGNL (CAK)

10098

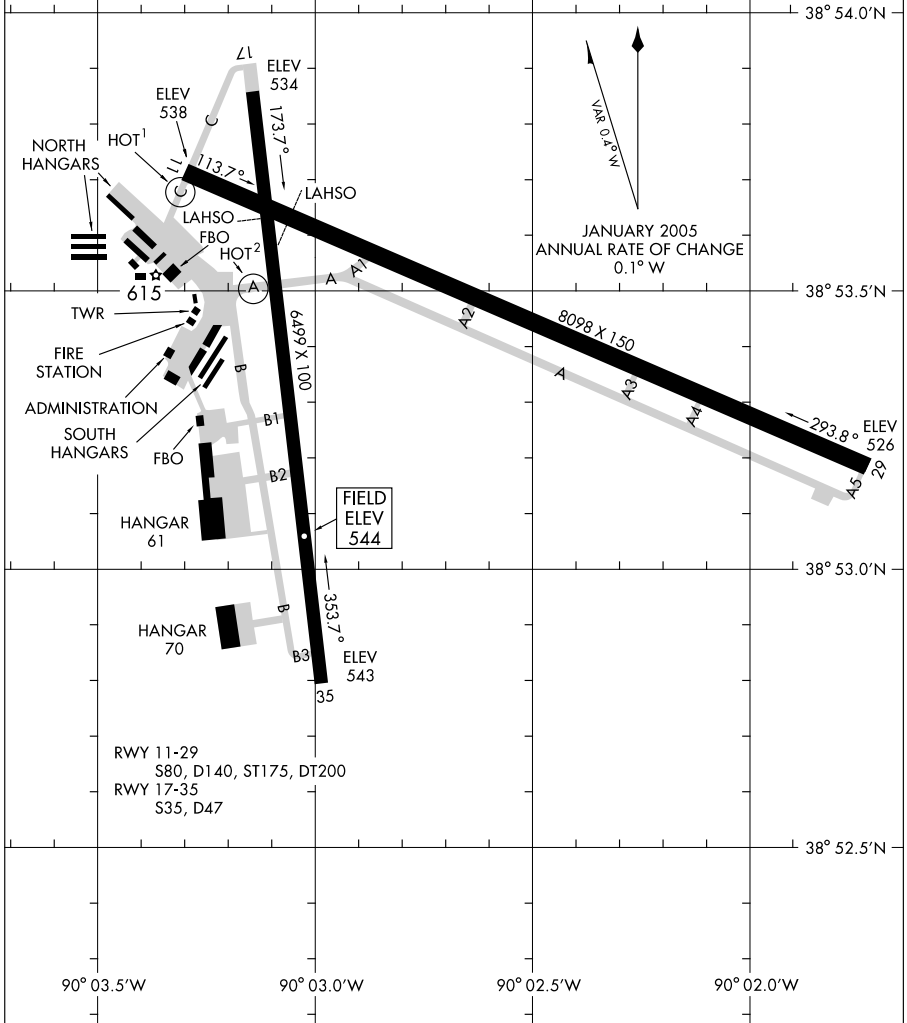
# AIRPORT DIAGRAM

AL-5178 (FAA)

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

ATIS  
128.0  
REGIONAL TOWER ★  
126.0 239.0  
GND CON  
120.2  
CLNC DEL  
120.2

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



# AIRPORT DIAGRAM

10098

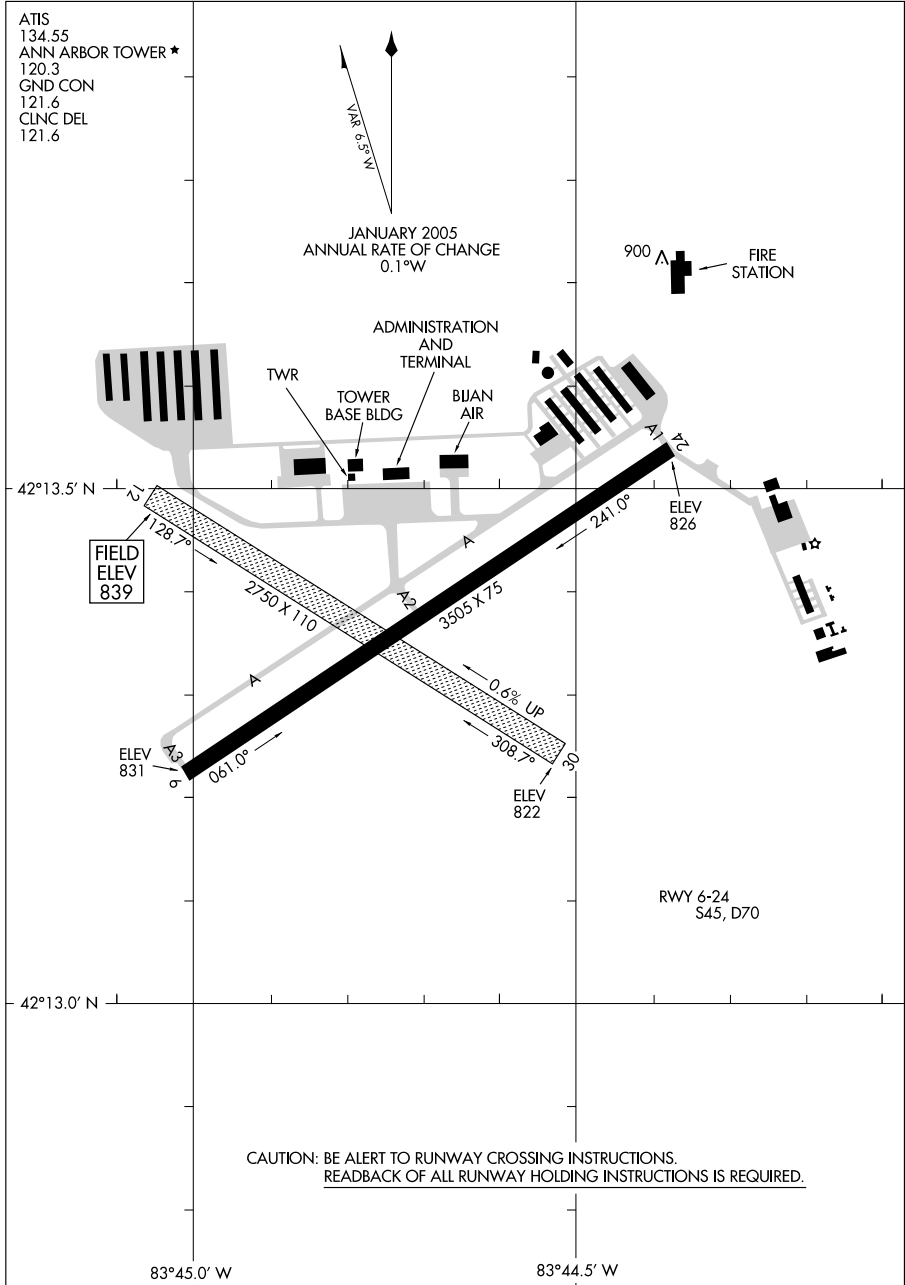
ALTON/ST. LOUIS, ILLINOIS  
ALTON/ST. LOUIS RGNL (ALN)

10098

# AIRPORT DIAGRAM

ANN ARBOR MUNI (ARB)  
ANN ARBOR, MICHIGAN

AL-5506 (FAA)



# AIRPORT DIAGRAM

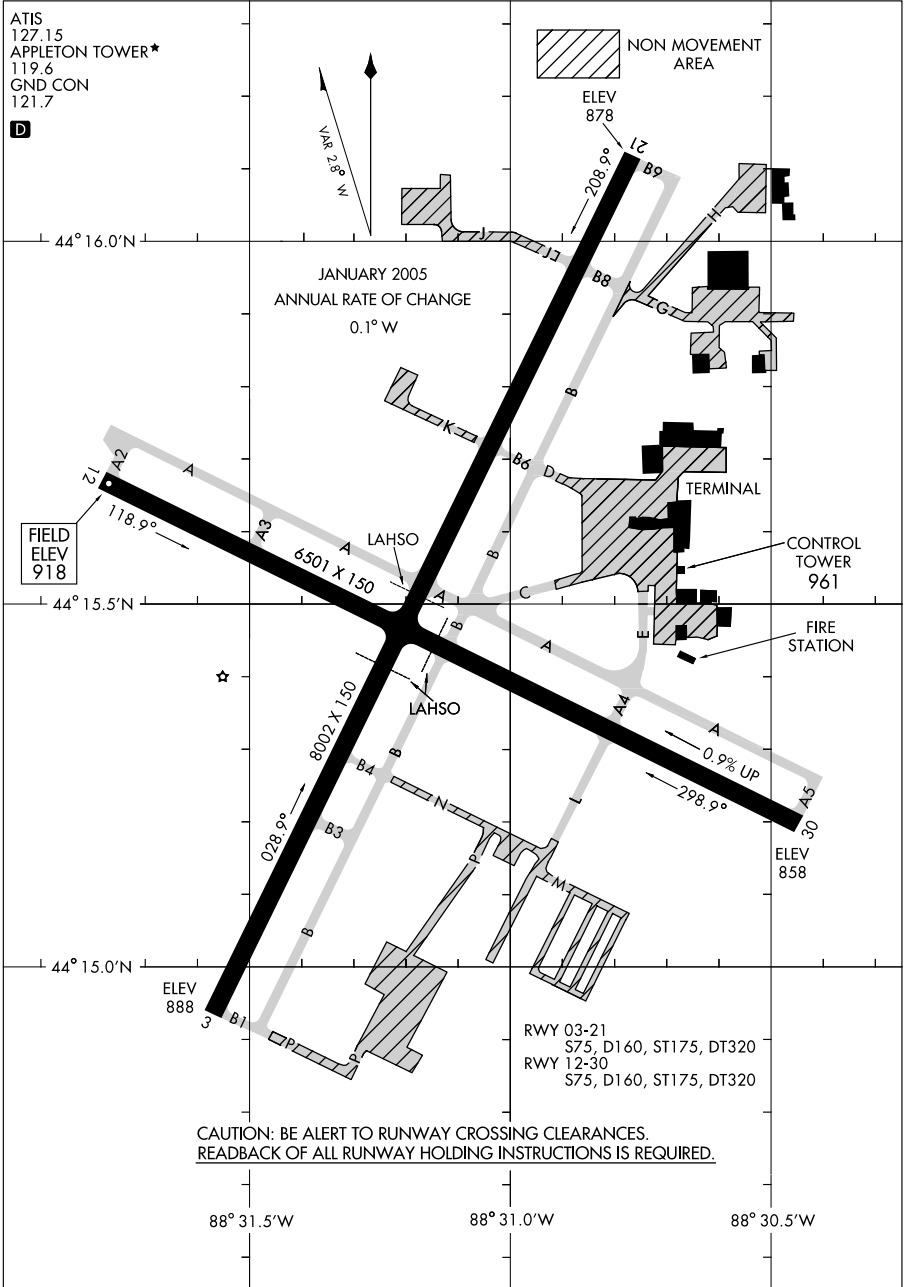
10098

ANN ARBOR, MICHIGAN  
ANN ARBOR MUNI (ARB)

10042

# AIRPORT DIAGRAM

APPLETON/OUTAGAMIE COUNTY RGNL (ATW)  
AL-5216 (FAA) APPLETON, WISCONSIN



# AIRPORT DIAGRAM

APPLETON, WISCONSIN  
APPLETON/OUTAGAMIE COUNTY RGNL (ATW)

10042

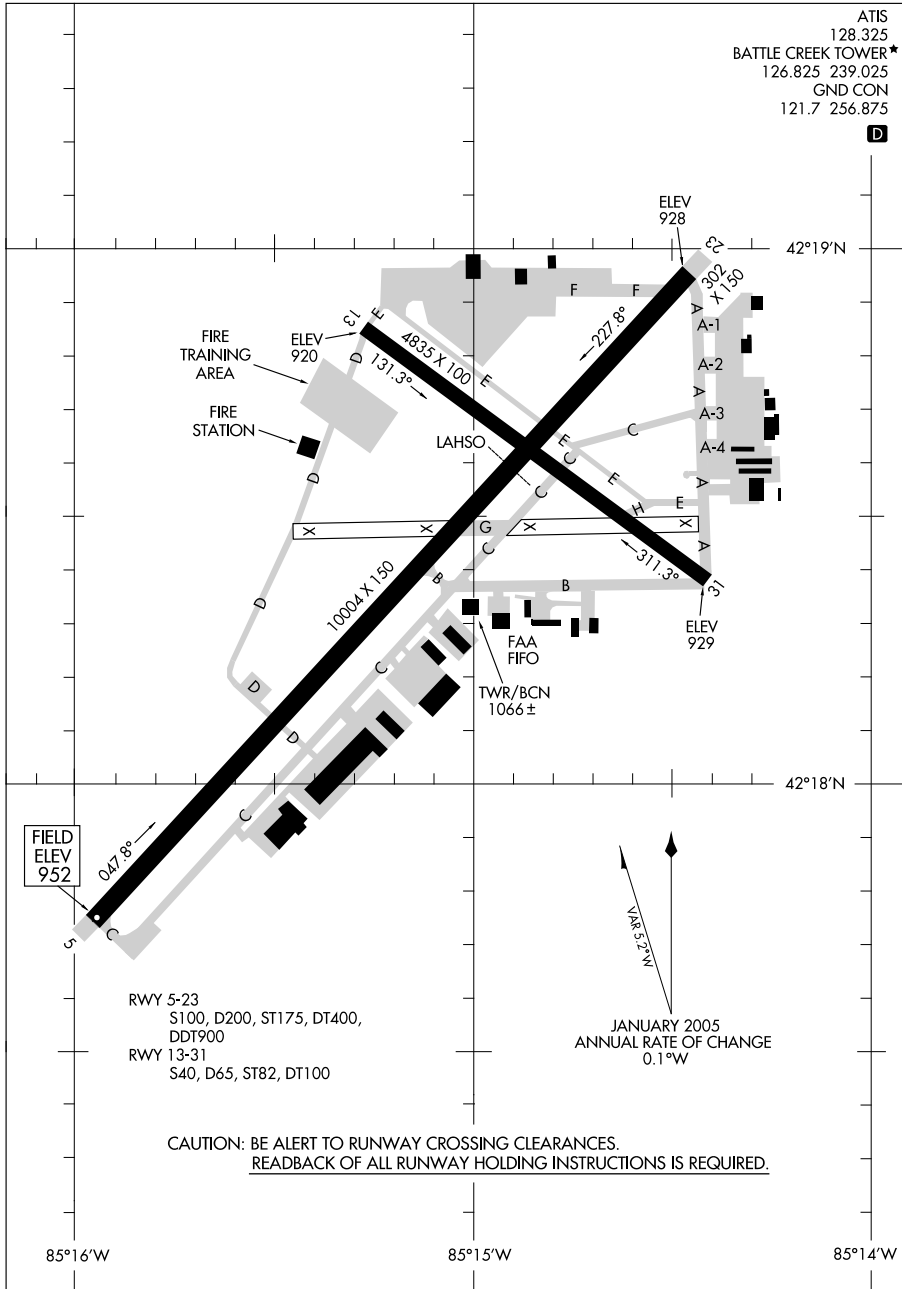


10042

AIRPORT DIAGRAM

AL-41 (FAA)

BATTLE CREEK/W.K. KELLOGG (BTL)  
BATTLE CREEK, MICHIGAN



ATIS 128.325  
 BATTLE CREEK TOWER\* 126.825 239.025  
 GND CON 121.7 256.875

D

AIRPORT DIAGRAM

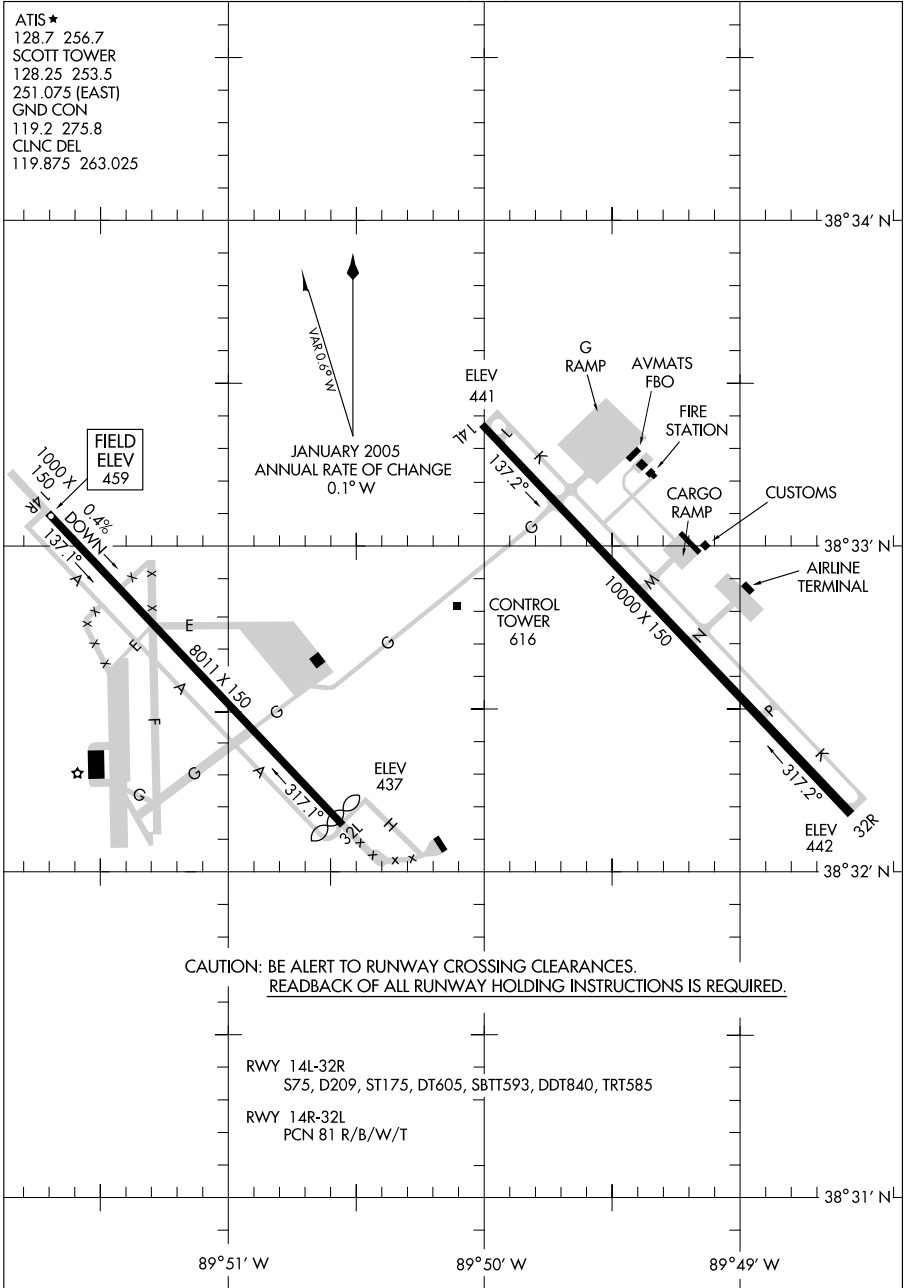
10042

BATTLE CREEK, MICHIGAN  
BATTLE CREEK/W.K. KELLOGG (BTL)

09239

# AIRPORT DIAGRAM

BELLEVILLE/SCOTT AFB/MIDAMERICA (B.L.V)  
AL-46 (FAA)  
BELLEVILLE, ILLINOIS



# AIRPORT DIAGRAM

09239

BELLEVILLE, ILLINOIS  
BELLEVILLE/SCOTT AFB/MIDAMERICA (B.L.V)

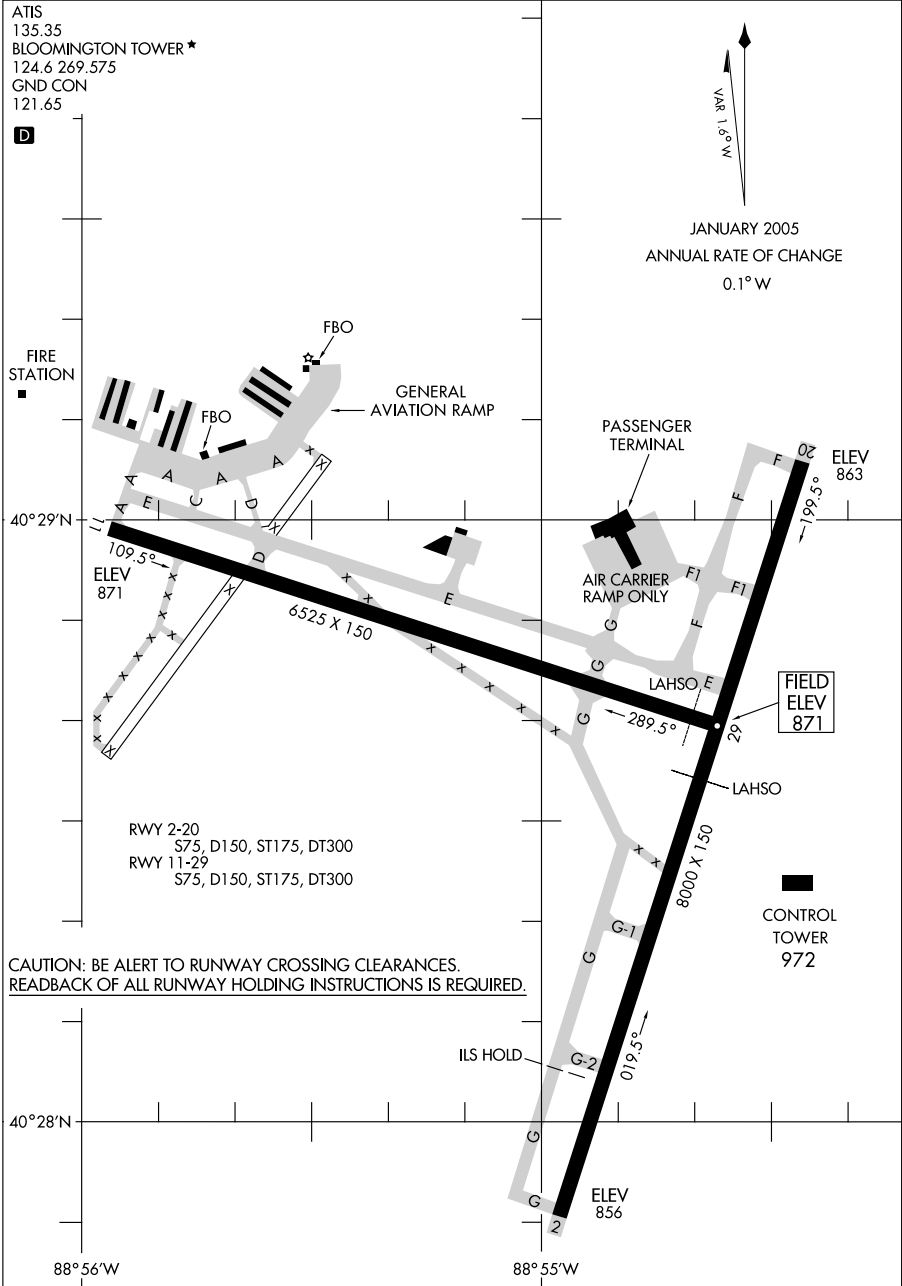
09295

BLOOMINGTON/CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL(B.M.I)

# AIRPORT DIAGRAM

AL-5058 (FAA)

BLOOMINGTON, ILLINOIS



# AIRPORT DIAGRAM

BLOOMINGTON, ILLINOIS

09295

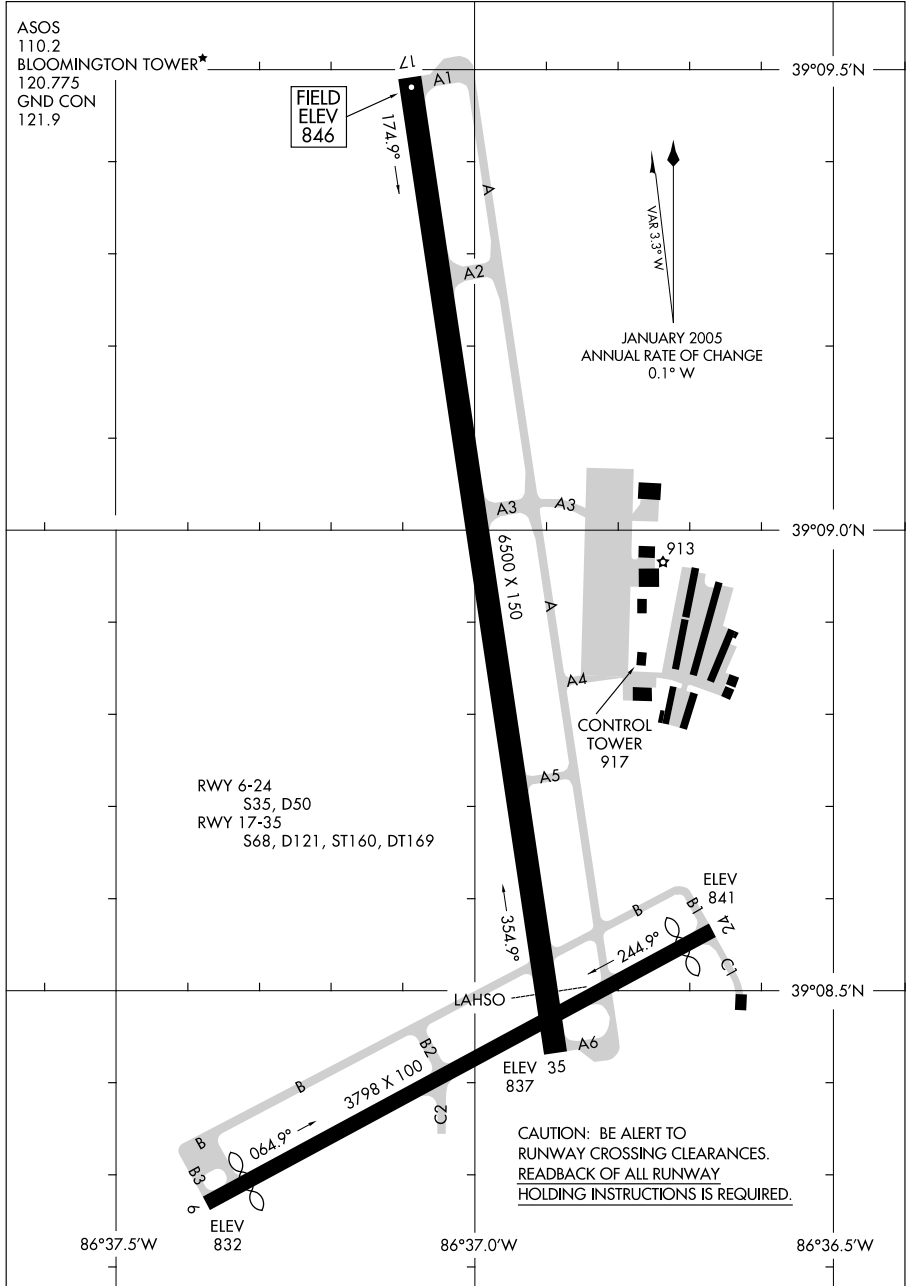
BLOOMINGTON/CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL(B.M.I)

09295

AIRPORT DIAGRAM

AL-5168 (FAA)

BLOOMINGTON / MONROE COUNTY (BMG)  
BLOOMINGTON, INDIANA



AIRPORT DIAGRAM

09295

BLOOMINGTON, INDIANA  
BLOOMINGTON / MONROE COUNTY (BMG)

09351

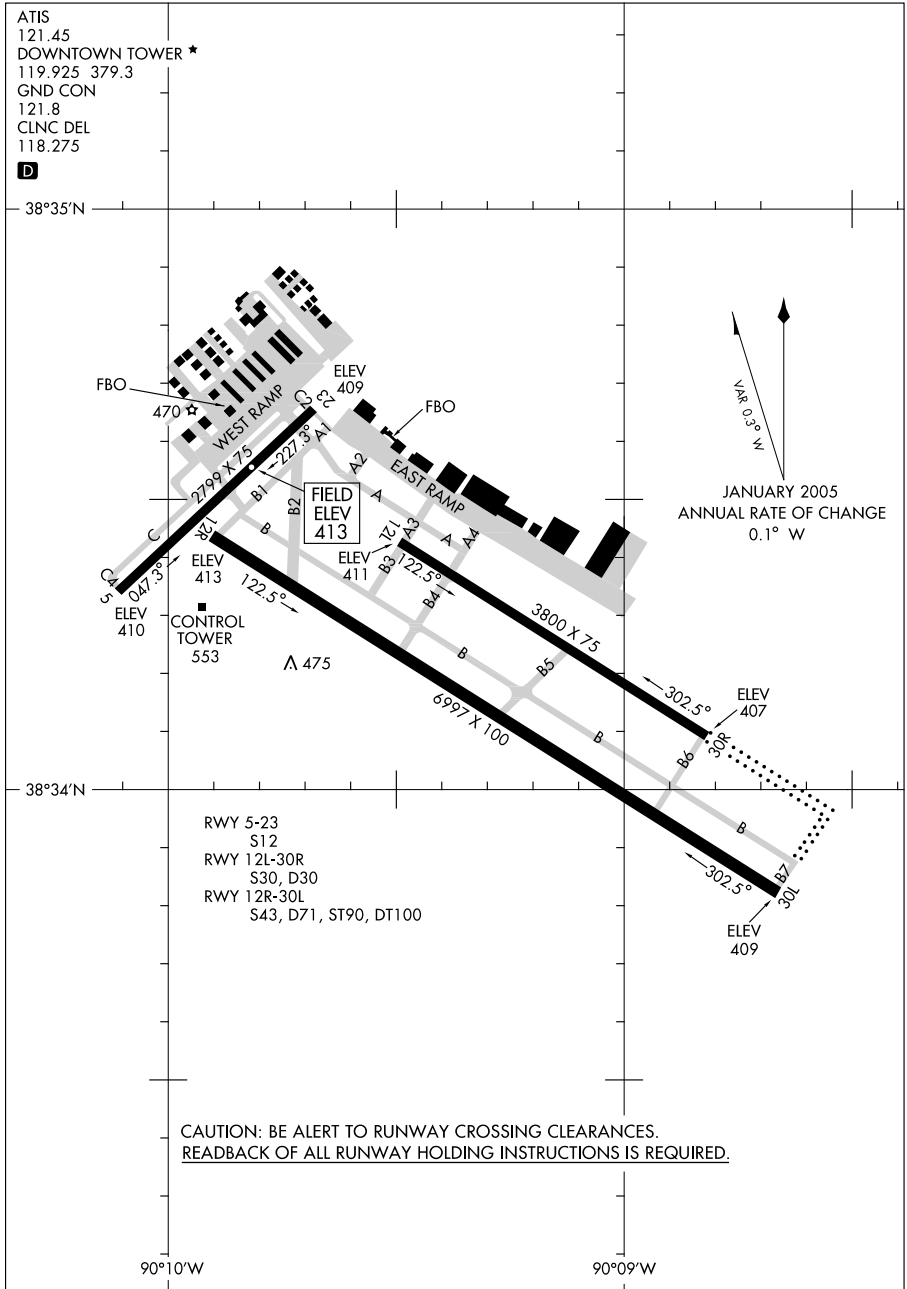
# AIRPORT DIAGRAM

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

AL-5316 (FAA)

ATIS  
 121.45  
 DOWNTOWN TOWER ★  
 119.925 379.3  
 GND CON  
 121.8  
 CLNC DEL  
 118.275

**D**



RWY 5-23  
 S12  
 RWY 12L-30R  
 S30, D30  
 RWY 12R-30L  
 S43, D71, ST90, DT100

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

# AIRPORT DIAGRAM

09351

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

09295

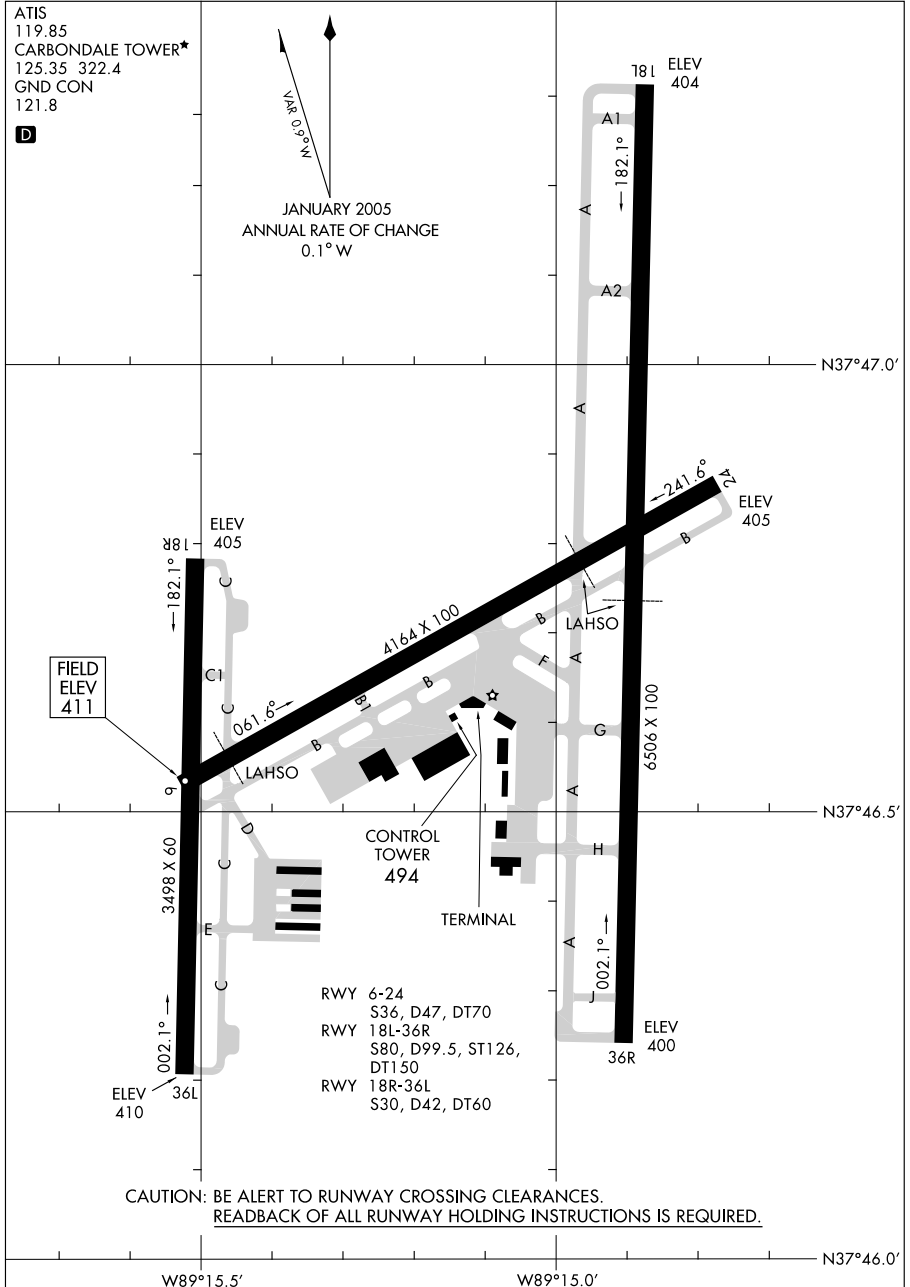
# AIRPORT DIAGRAM

CARBONDALE-MURPHYSBORO/ SOUTHERN ILLINOIS (MDH)  
AL-5091 (FAA)  
CARBONDALE-MURPHYSBORO, ILLINOIS

ATIS  
119.85  
CARBONDALE TOWER\*  
125.35 322.4  
GND CON  
121.8



VAR 0.0°N  
JANUARY 2005  
ANNUAL RATE OF CHANGE  
0.1°W



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

# AIRPORT DIAGRAM

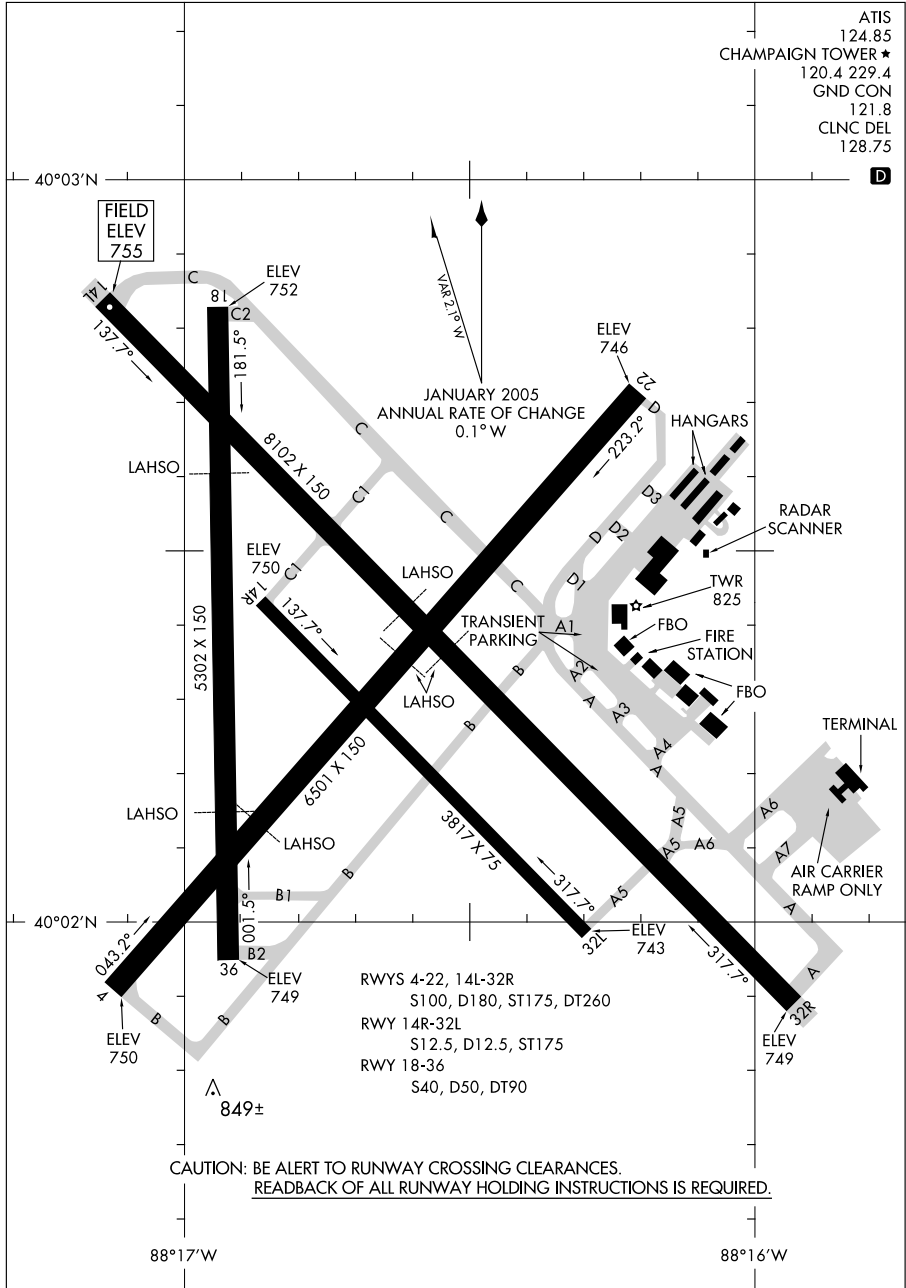
09295

CARBONDALE-MURPHYSBORO, ILLINOIS  
CARBONDALE-MURPHYSBORO/ SOUTHERN ILLINOIS (MDH)

09295

AIRPORT DIAGRAM

CHAMPAIGN-URBANA/UNIVERSITY OF ILLINOIS-WILLARD (CMI)  
AL-709 (FAA)  
CHAMPAIGN-URBANA, ILLINOIS



AIRPORT DIAGRAM

09295

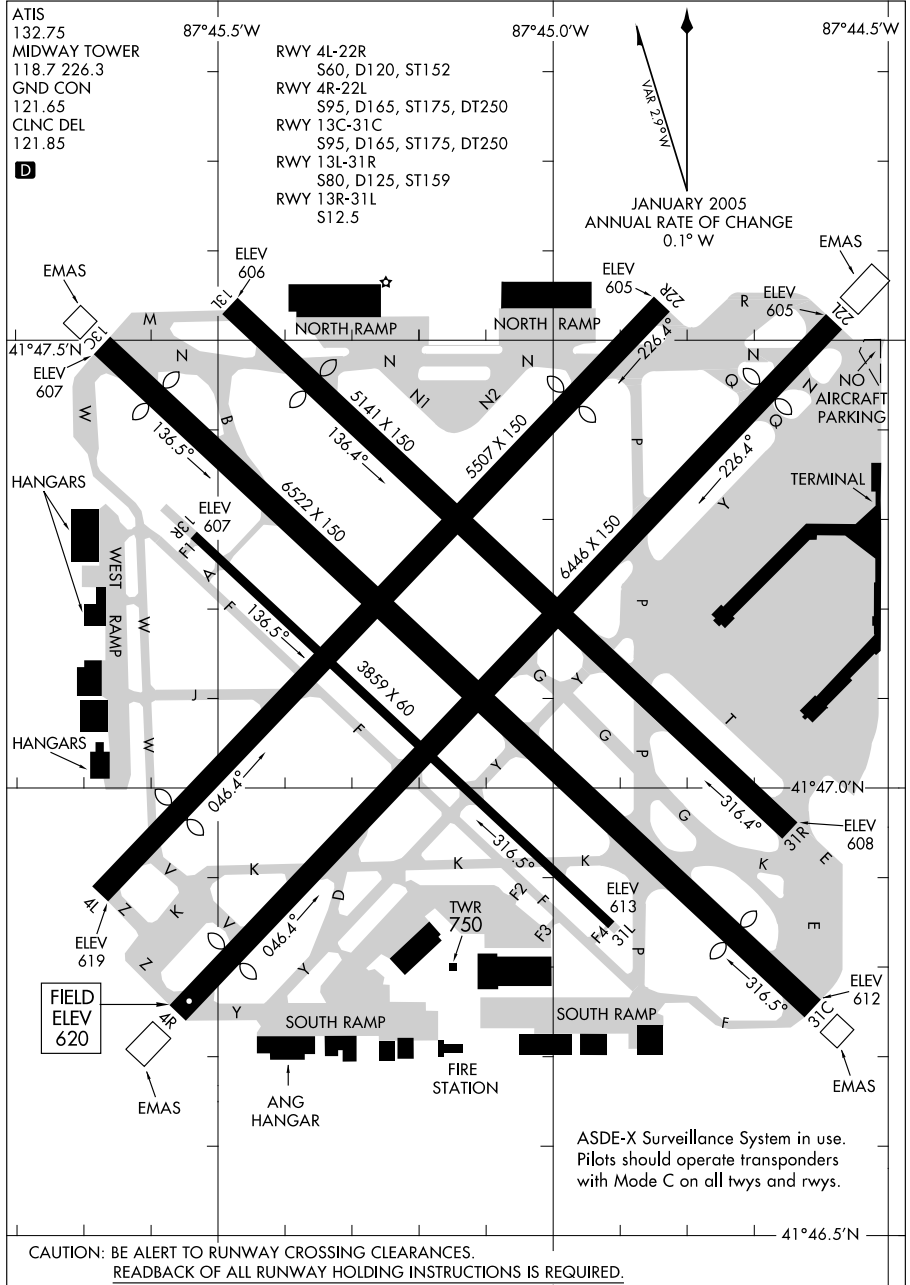
CHAMPAIGN-URBANA, ILLINOIS  
CHAMPAIGN-URBANA/UNIVERSITY OF ILLINOIS-WILLARD (CMI)

10042

# AIRPORT DIAGRAM

AL-81 (FAA)

CHICAGO MIDWAY INTL (MDW)  
CHICAGO, ILLINOIS



# AIRPORT DIAGRAM

10042

CHICAGO, ILLINOIS  
CHICAGO MIDWAY INTL (MDW)

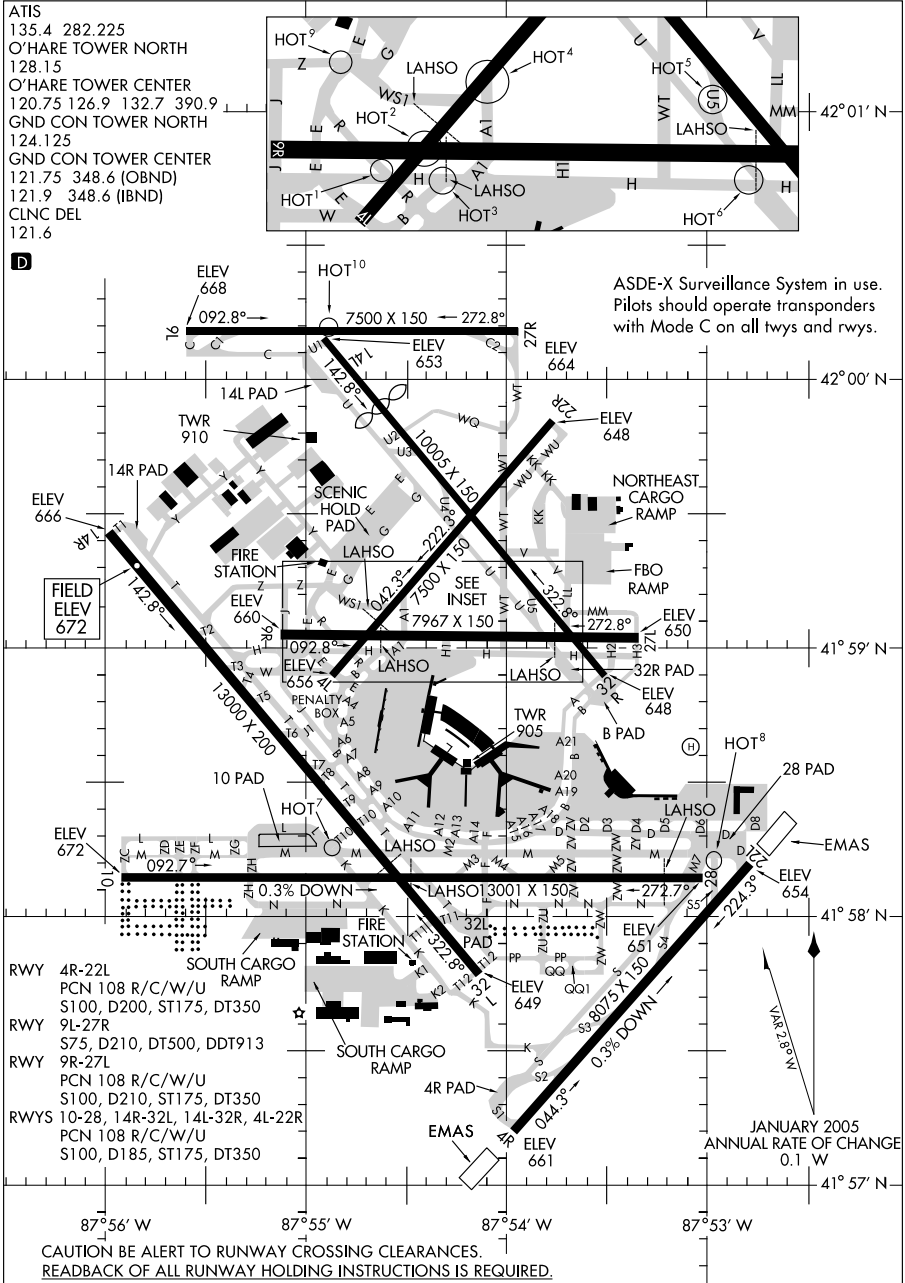


10098

AIRPORT DIAGRAM

AL-166 (FAA)

CHICAGO-O'HARE INTL (ORD)  
CHICAGO, ILLINOIS



AIRPORT DIAGRAM

10098

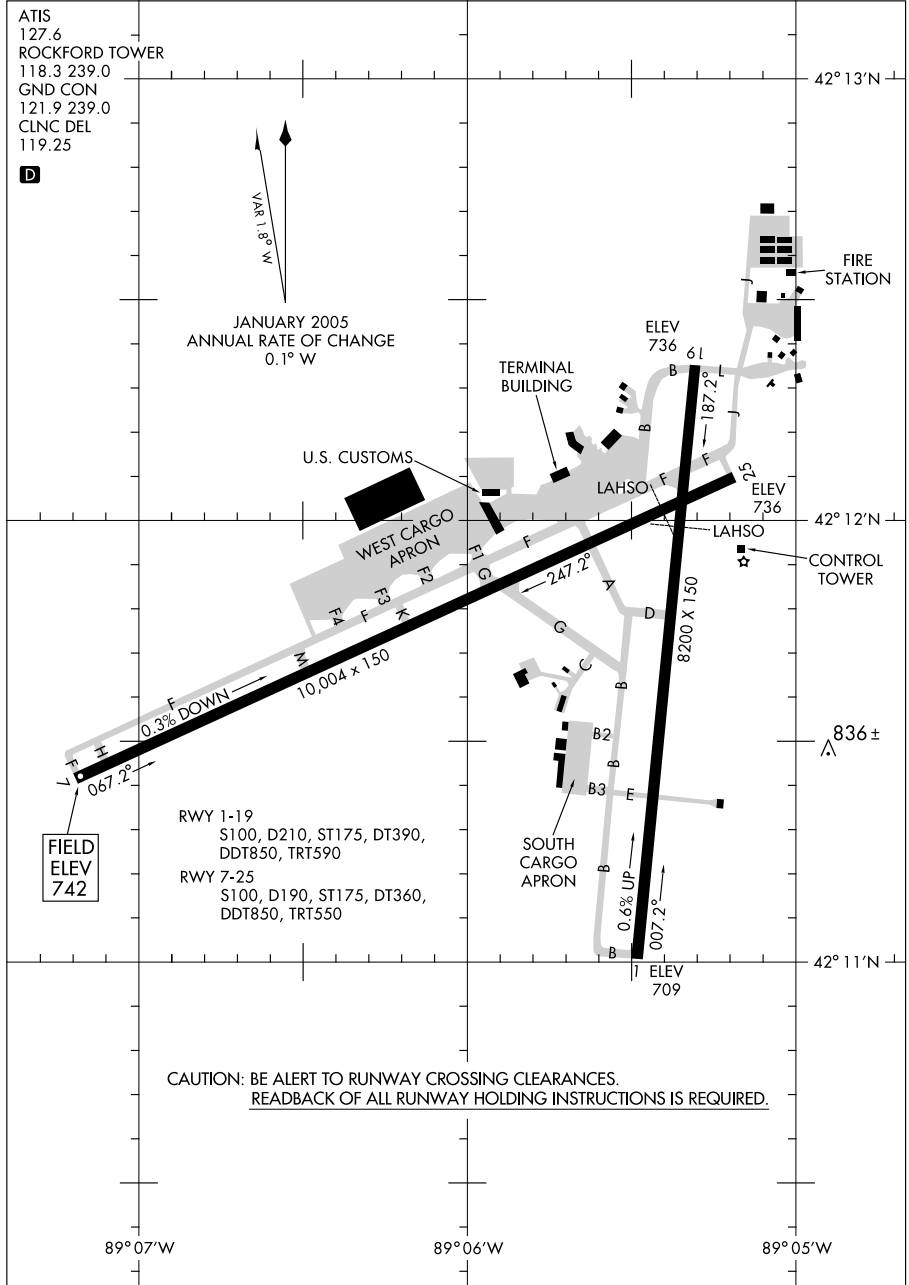
CHICAGO, ILLINOIS  
CHICAGO-O'HARE INTL (ORD)

09015

# AIRPORT DIAGRAM

AL-954 (FAA)

CHICAGO/ROCKFORD INTL (R.F'D)  
CHICAGO/ROCKFORD, ILLINOIS



# AIRPORT DIAGRAM

09015

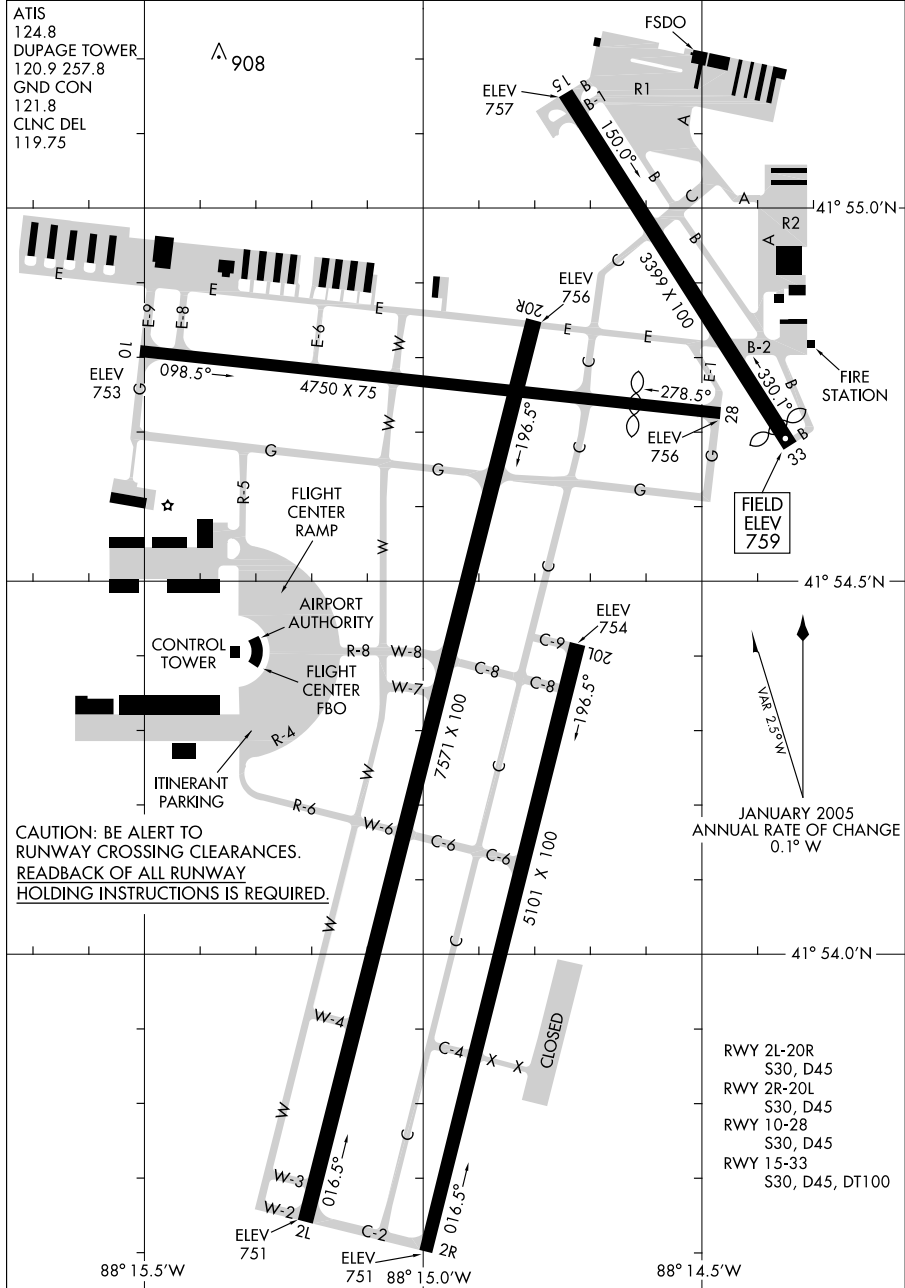
CHICAGO/ROCKFORD, ILLINOIS  
CHICAGO/ROCKFORD INTL (R.F'D)

09015

# AIRPORT DIAGRAM

AL-5104 (FAA)

CHICAGO/DU PAGE (DPA)  
CHICAGO (WEST CHICAGO), ILLINOIS



# AIRPORT DIAGRAM

09015

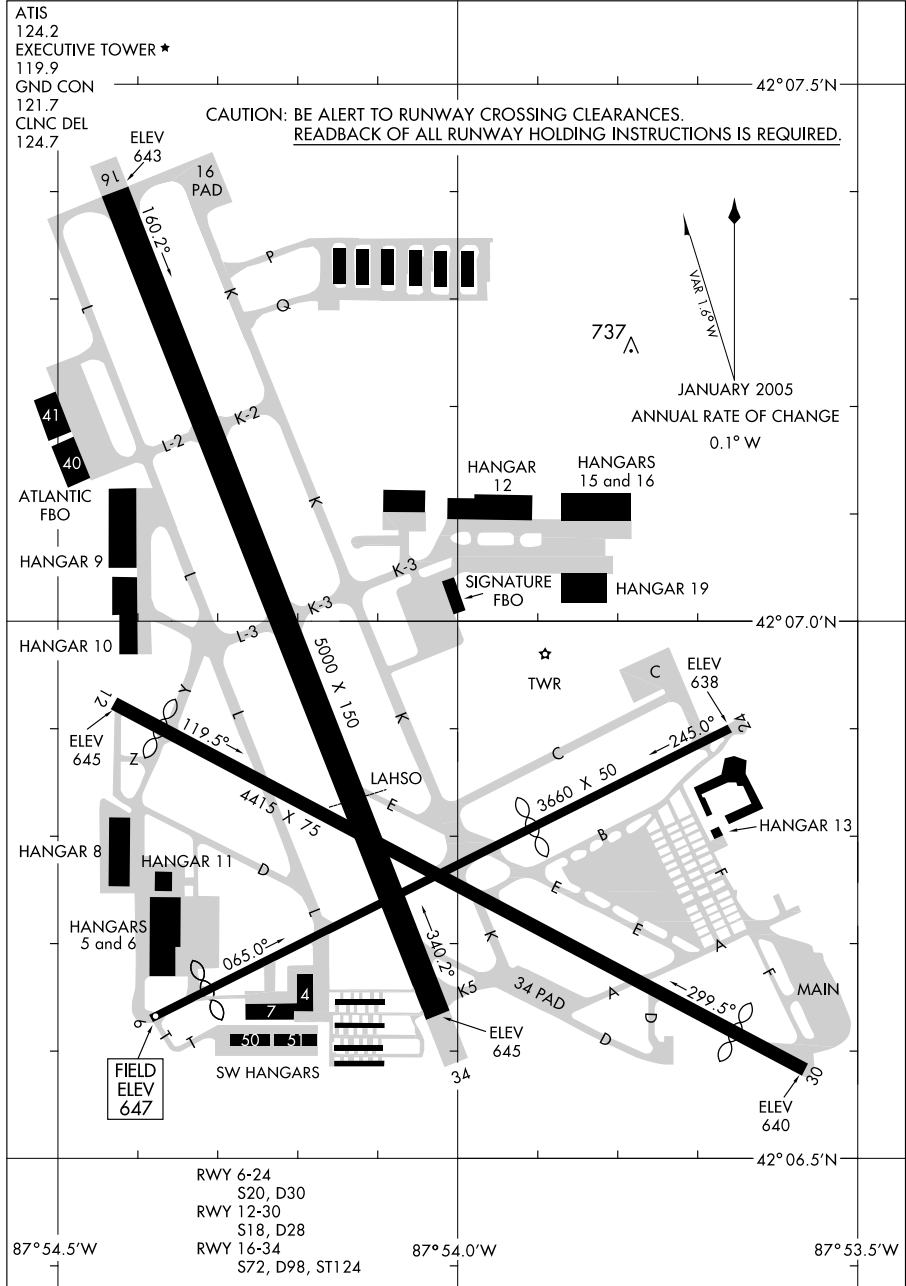
CHICAGO (WEST CHICAGO), ILLINOIS  
CHICAGO/DU PAGE (DPA)



10042

AIRPORT DIAGRAM

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



AIRPORT DIAGRAM

CHICAGO/PROSPECT HEIGHTS/WHEELING, ILLINOIS  
CHICAGO EXECUTIVE (PWK)

10042

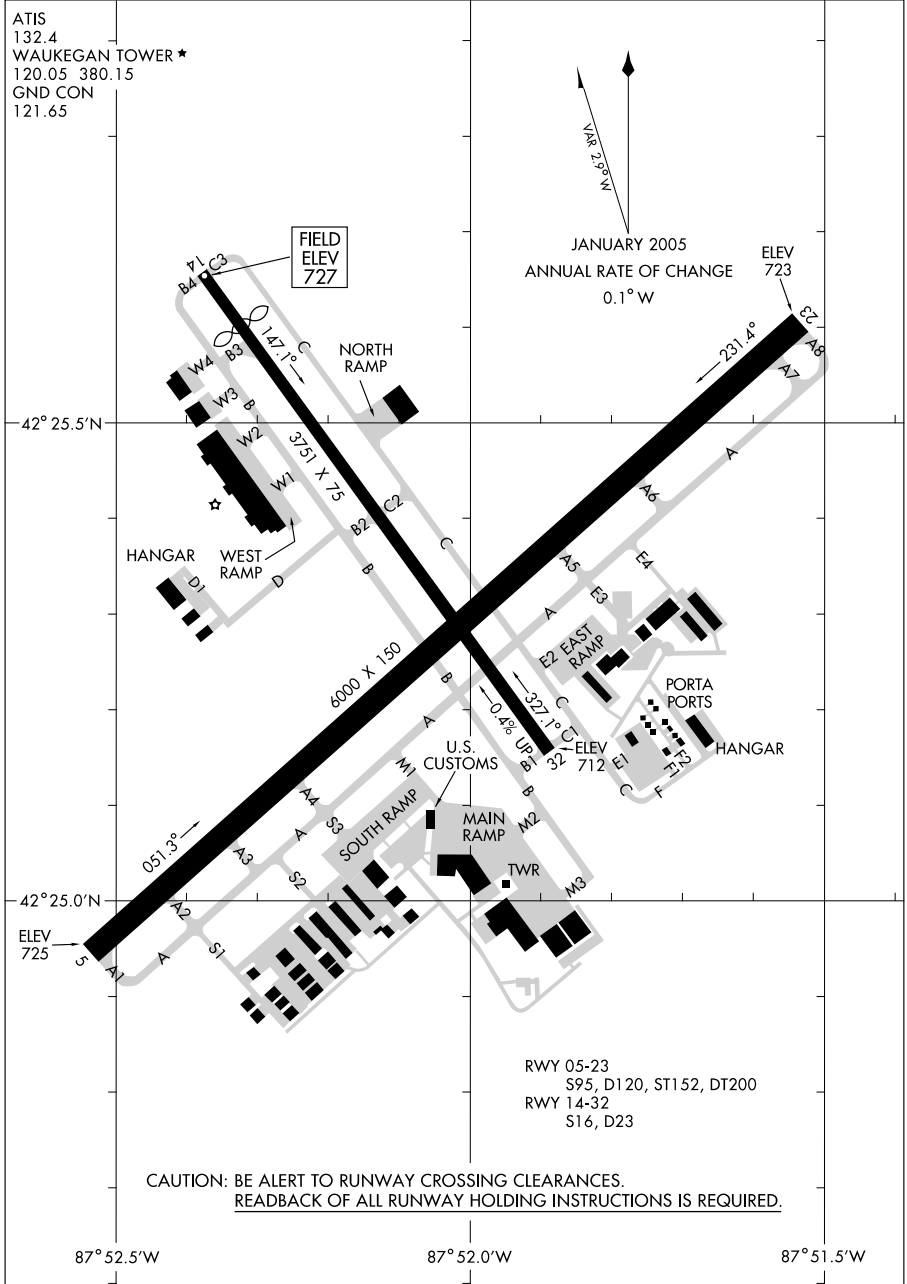
09351

# AIRPORT DIAGRAM

AL-5324 (FAA)

CHICAGO/WAUKEGAN RGNL (UGN)

CHICAGO/WAUKEGAN, ILLINOIS



# AIRPORT DIAGRAM

09351

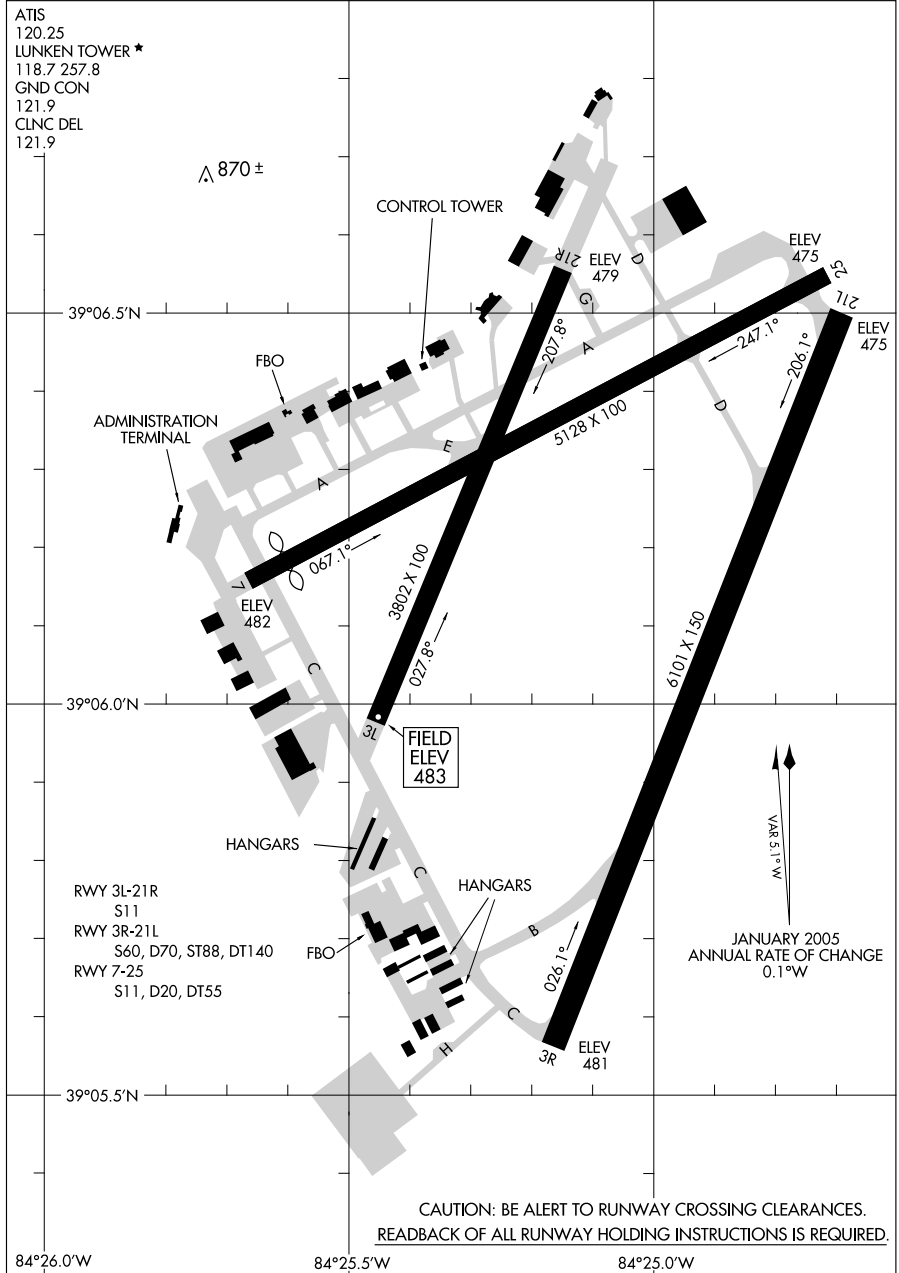
CHICAGO/WAUKEGAN, ILLINOIS

CHICAGO/WAUKEGAN RGNL (UGN)

09071

# AIRPORT DIAGRAM

CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUNK)  
AL-83 (FAA)  
CINCINNATI, OHIO



AIRPORT DIAGRAM  
09071

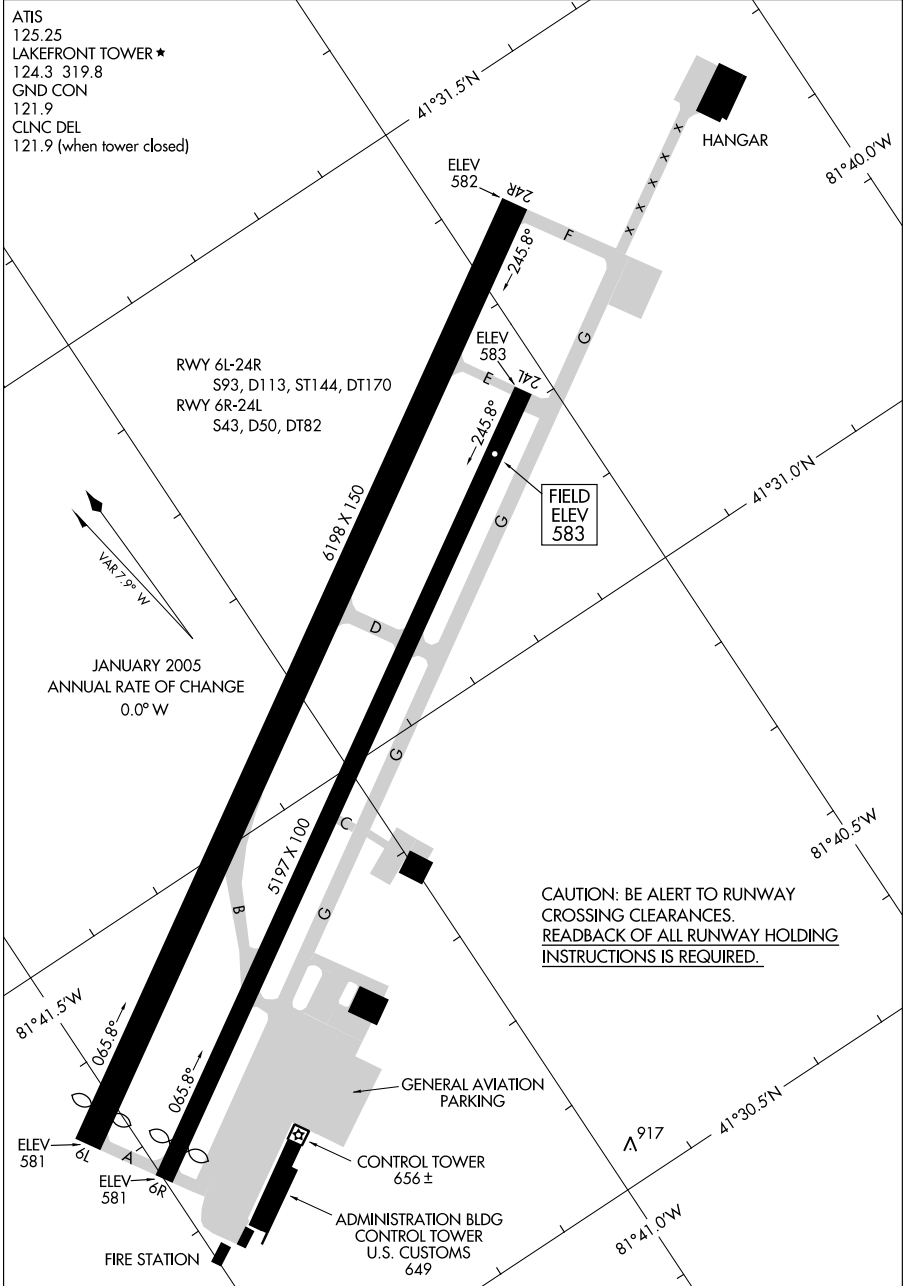
CINCINNATI, OHIO  
CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUNK)

09015

# AIRPORT DIAGRAM

AL-5370 (FAA)

CLEVELAND/ BURKE LAKEFRONT (BKL)  
CLEVELAND, OHIO



# AIRPORT DIAGRAM

09015

CLEVELAND, OHIO  
CLEVELAND/ BURKE LAKEFRONT (BKL)

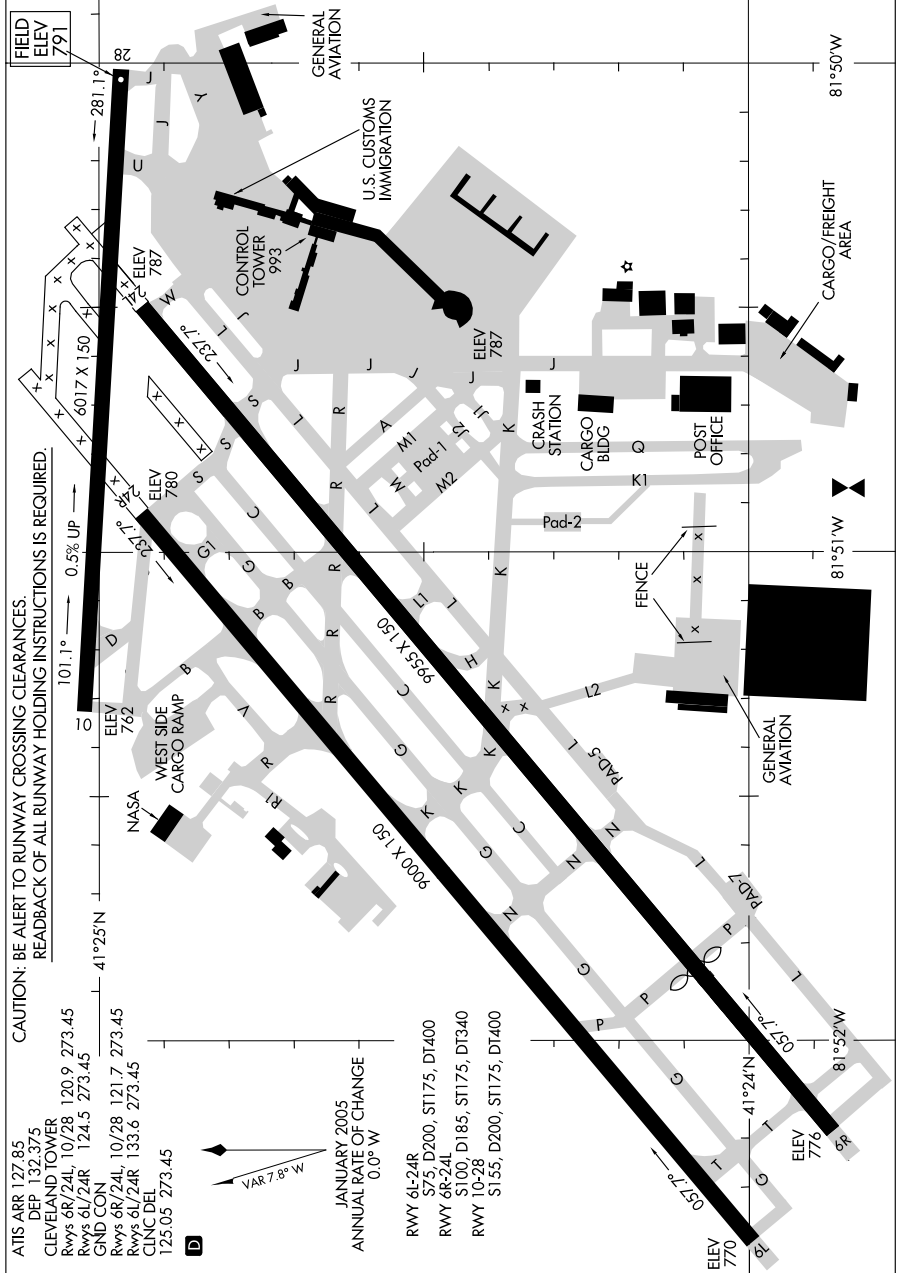


09183

# AIRPORT DIAGRAM

AL-84 (FAA)

CLEVELAND-HOPKINS INTL (CLE)  
CLEVELAND, OHIO



# AIRPORT DIAGRAM

09183

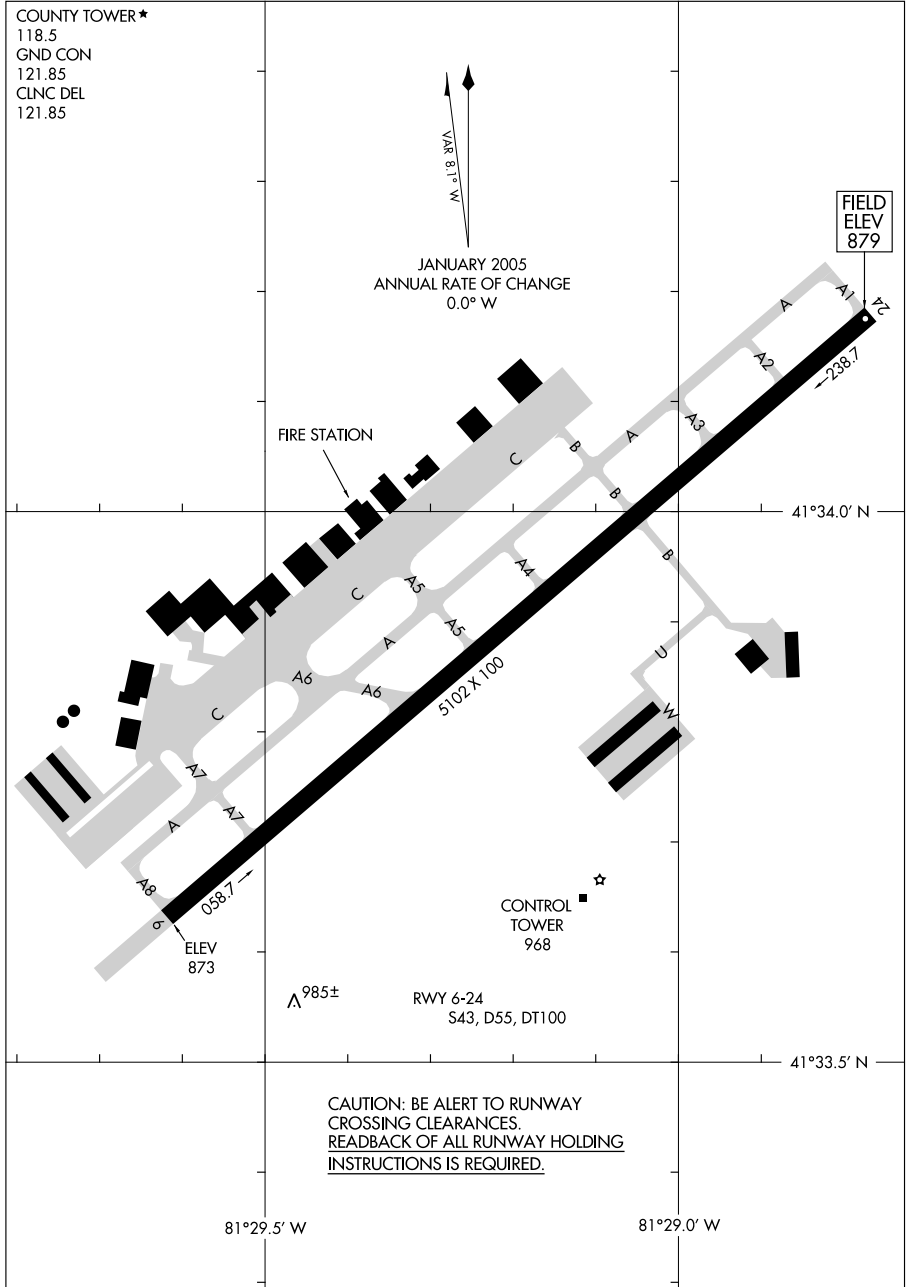
CLEVELAND, OHIO  
CLEVELAND-HOPKINS INTL (CLE)

08269

# AIRPORT DIAGRAM

CLEVELAND / CUYAHOGA COUNTY (CGF)  
CLEVELAND, OHIO

AL-5027 (FAA)



# AIRPORT DIAGRAM

08269

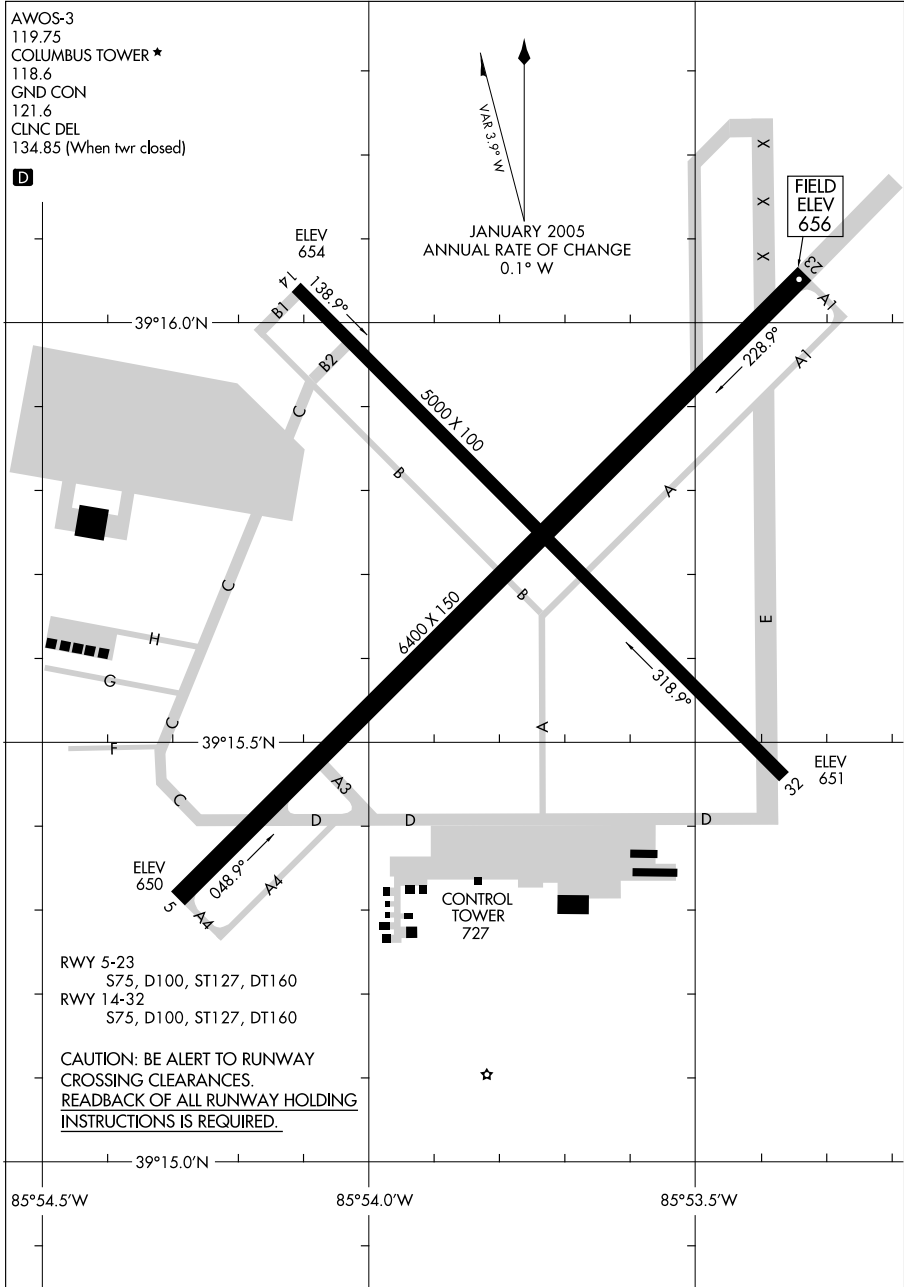
CLEVELAND, OHIO  
CLEVELAND / CUYAHOGA COUNTY (CGF)

09295

AIRPORT DIAGRAM

AL-594 (FAA)

COLUMBUS MUNI (BAK)  
COLUMBUS, INDIANA



AIRPORT DIAGRAM

09295

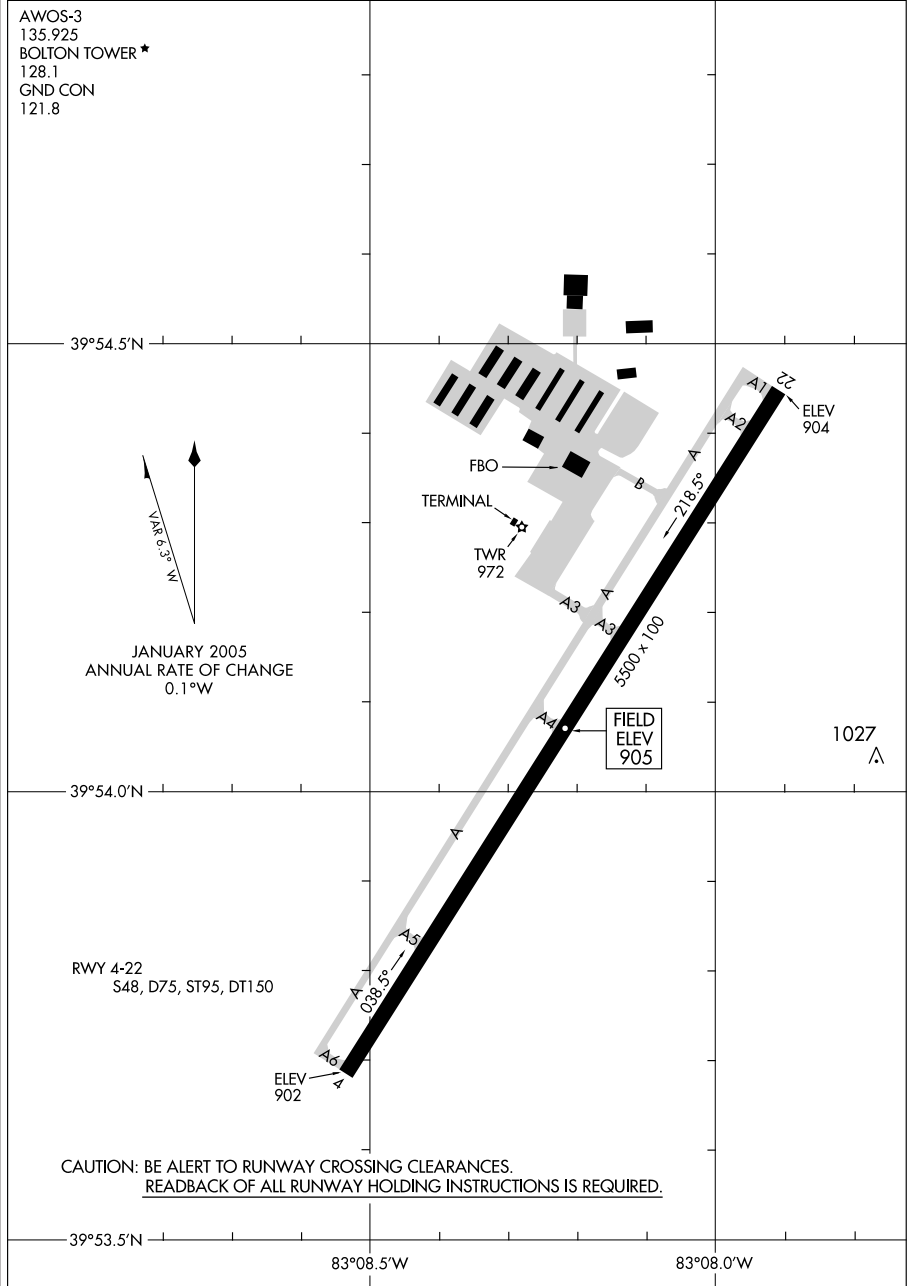
COLUMBUS, INDIANA  
COLUMBUS MUNI (BAK)

10098

# AIRPORT DIAGRAM

AL-5958 (FAA)

COLUMBUS/BOLTON FIELD (TZR)  
COLUMBUS, OHIO



# AIRPORT DIAGRAM

10098

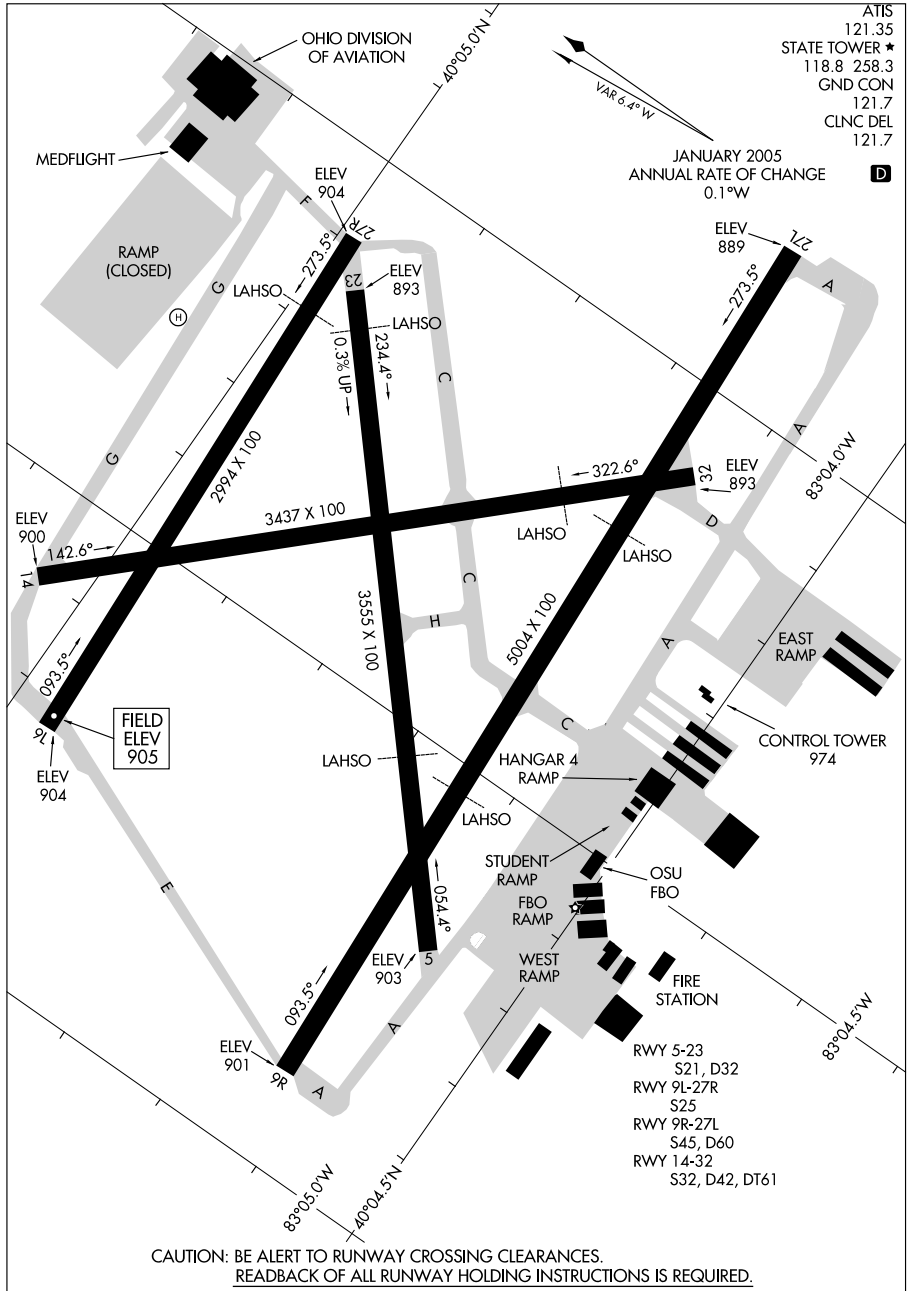
COLUMBUS, OHIO  
COLUMBUS/BOLTON FIELD (TZR)

09351

AIRPORT DIAGRAM

AL-5387 (FAA)

COLUMBUS/OHIO STATE UNIVERSITY (OSU)  
COLUMBUS, OHIO



ATIS 121.35  
STATE TOWER ★ 118.8 258.3  
GND CON 121.7  
CLNC DEL 121.7

JANUARY 2005  
ANNUAL RATE OF CHANGE 0.1° W

D

AIRPORT DIAGRAM

COLUMBUS, OHIO  
COLUMBUS/OHIO STATE UNIVERSITY (OSU)

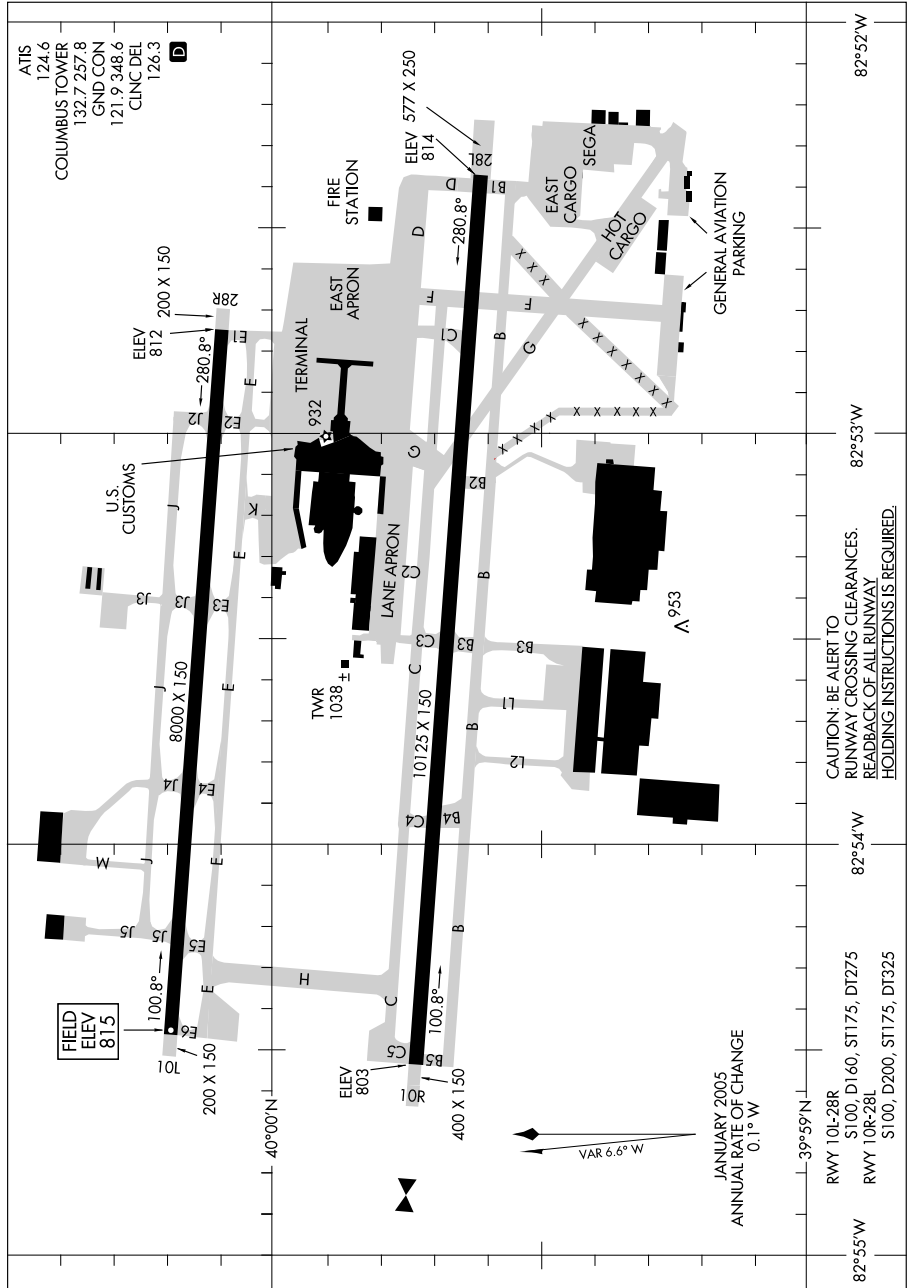
09351

10098

# AIRPORT DIAGRAM

AL-94 (FAA)

COLUMBUS/ PORT COLUMBUS INTL (CMH)  
COLUMBUS, OHIO



# AIRPORT DIAGRAM

10098

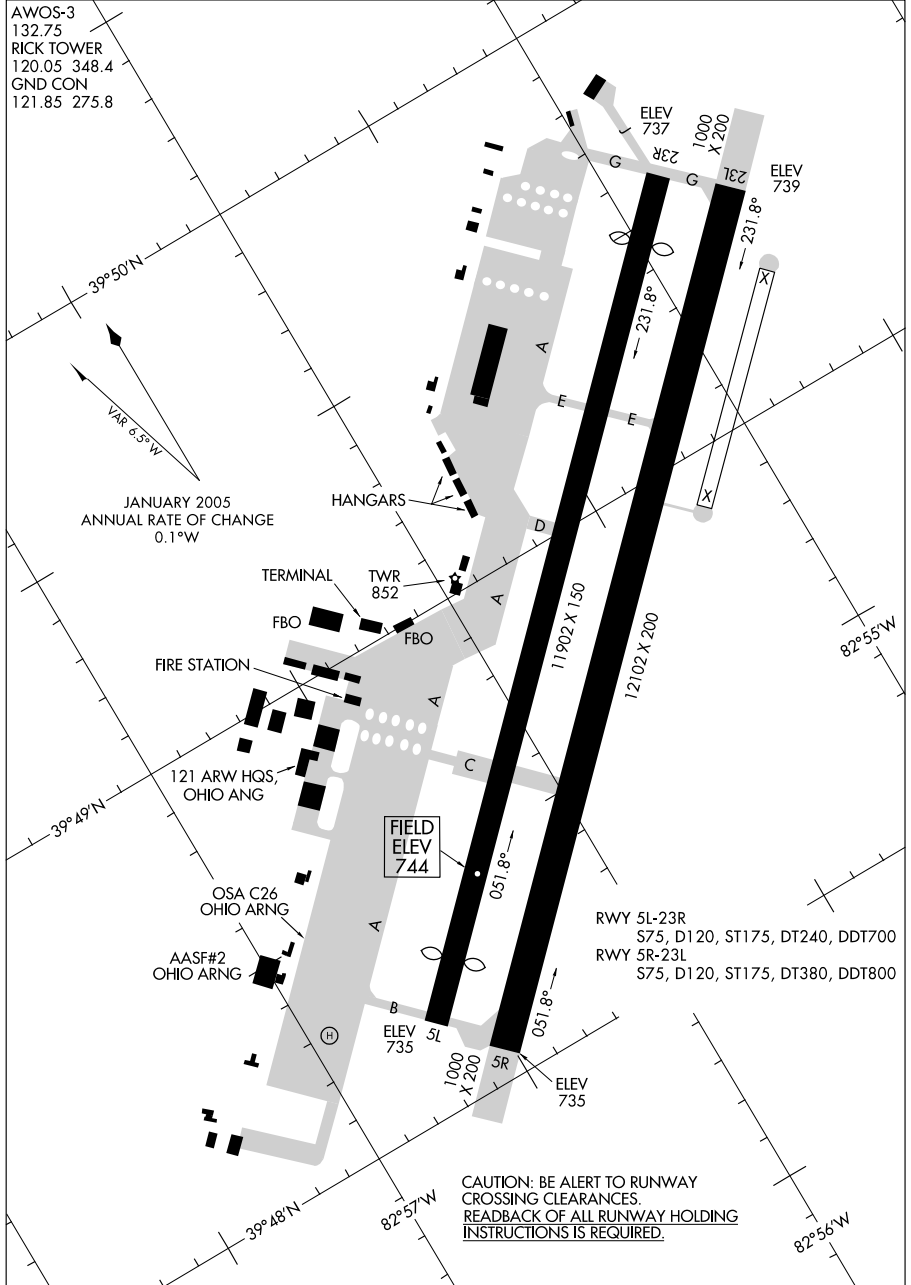
COLUMBUS, OHIO  
COLUMBUS/ PORT COLUMBUS INTL (CMH)

10042

AIRPORT DIAGRAM

COLUMBUS/RICKENBACKER INTL (LCK)  
COLUMBUS, OHIO

AL-6846 (FAA)



AIRPORT DIAGRAM

COLUMBUS, OHIO  
COLUMBUS/RICKENBACKER INTL (LCK)

10042

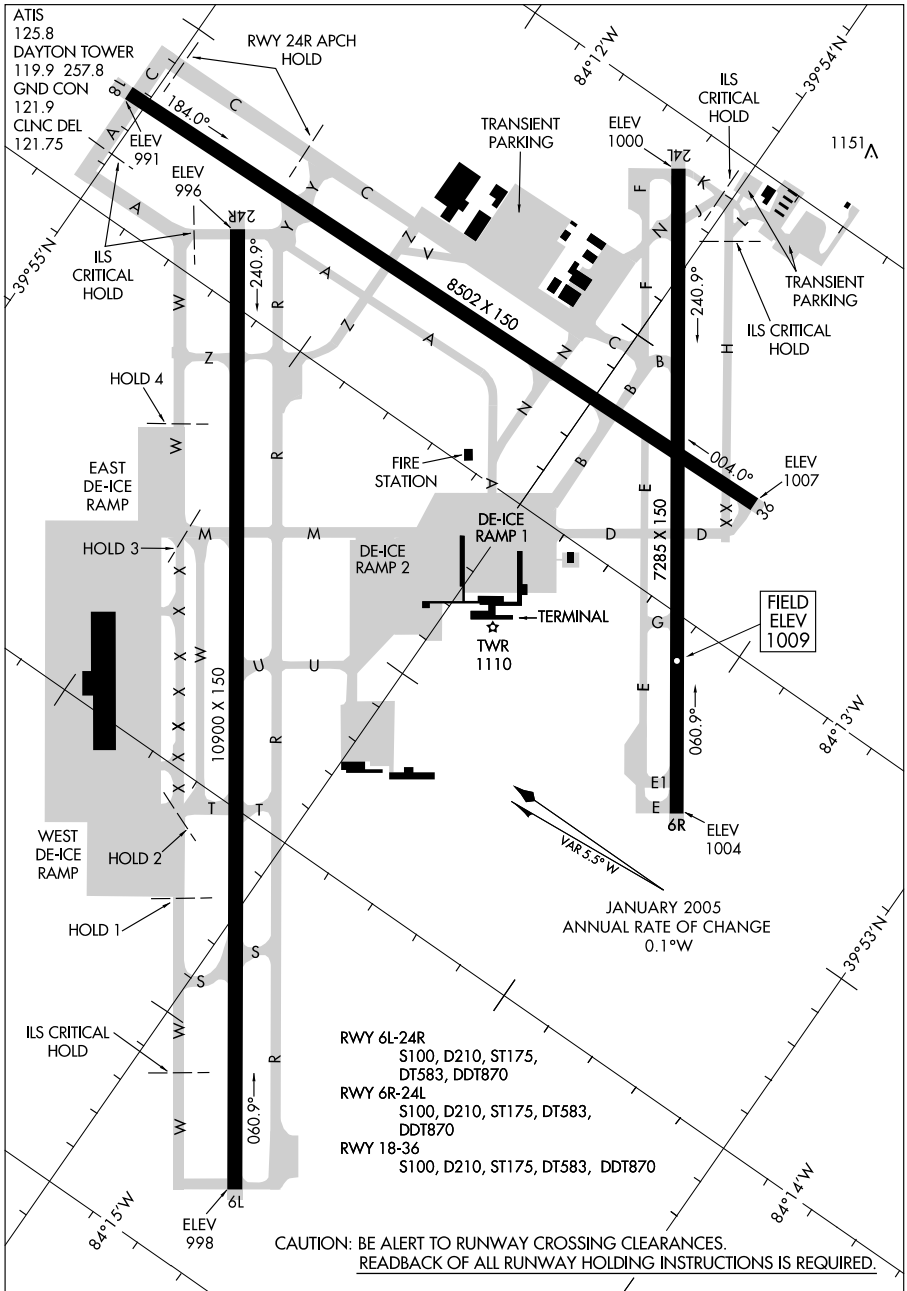
10042

# AIRPORT DIAGRAM

DAYTON / JAMES M. COX-DAYTON INTL (DAY)

AL-107 (FAA)

DAYTON, OHIO



FIELD ELEV 1009

JANUARY 2005 ANNUAL RATE OF CHANGE 0.1°W

- RWY 6L-24R  
S100, D210, ST175, DT583, DDT870
- RWY 6R-24L  
S100, D210, ST175, DT583, DDT870
- RWY 18-36  
S100, D210, ST175, DT583, DDT870

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

# AIRPORT DIAGRAM

DAYTON / JAMES M. COX-DAYTON INTL (DAY)

DAYTON, OHIO

10042

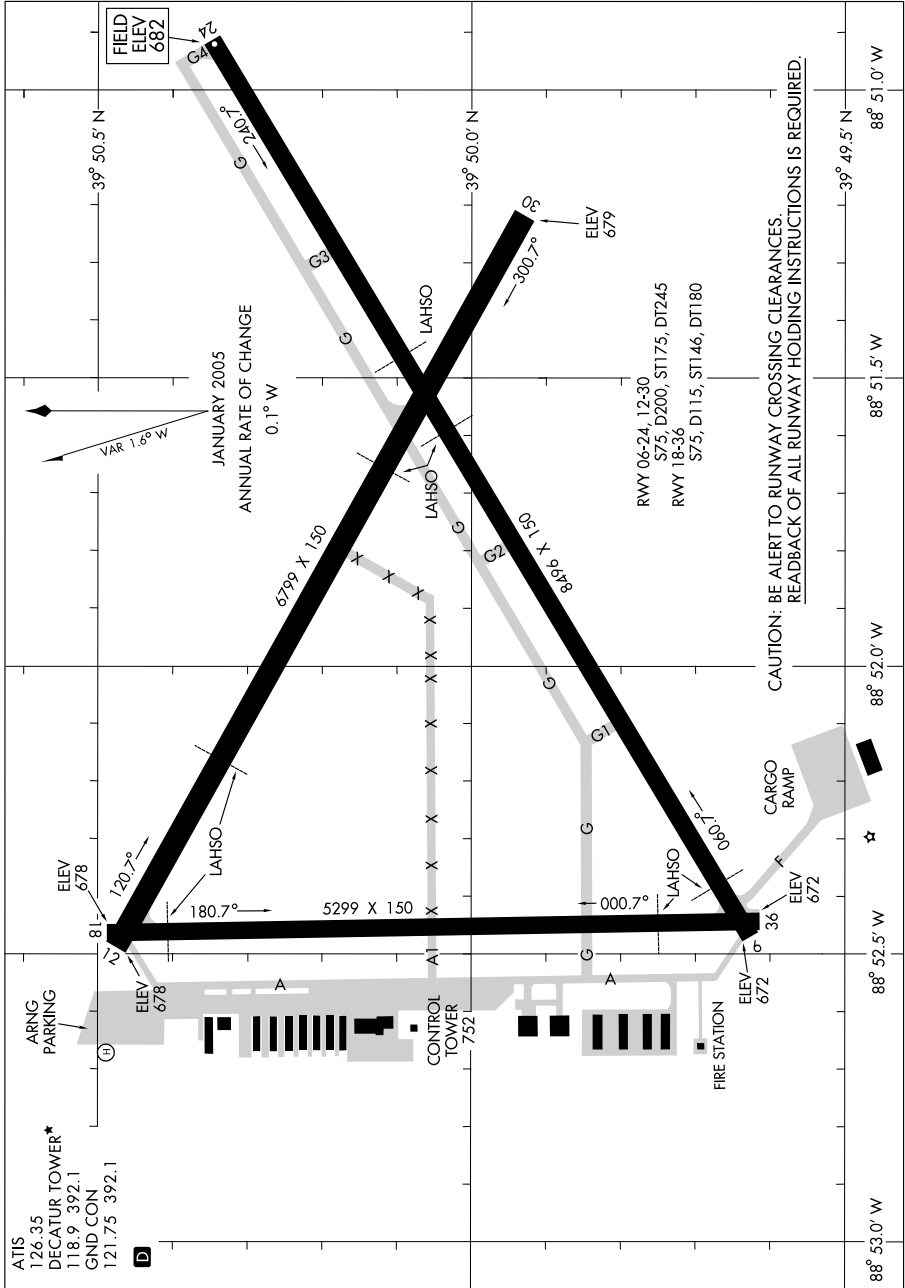


09295

AIRPORT DIAGRAM

AL-710 (FAA)

DECATUR (DEC)  
DECATUR, ILLINOIS



AIRPORT DIAGRAM

09295

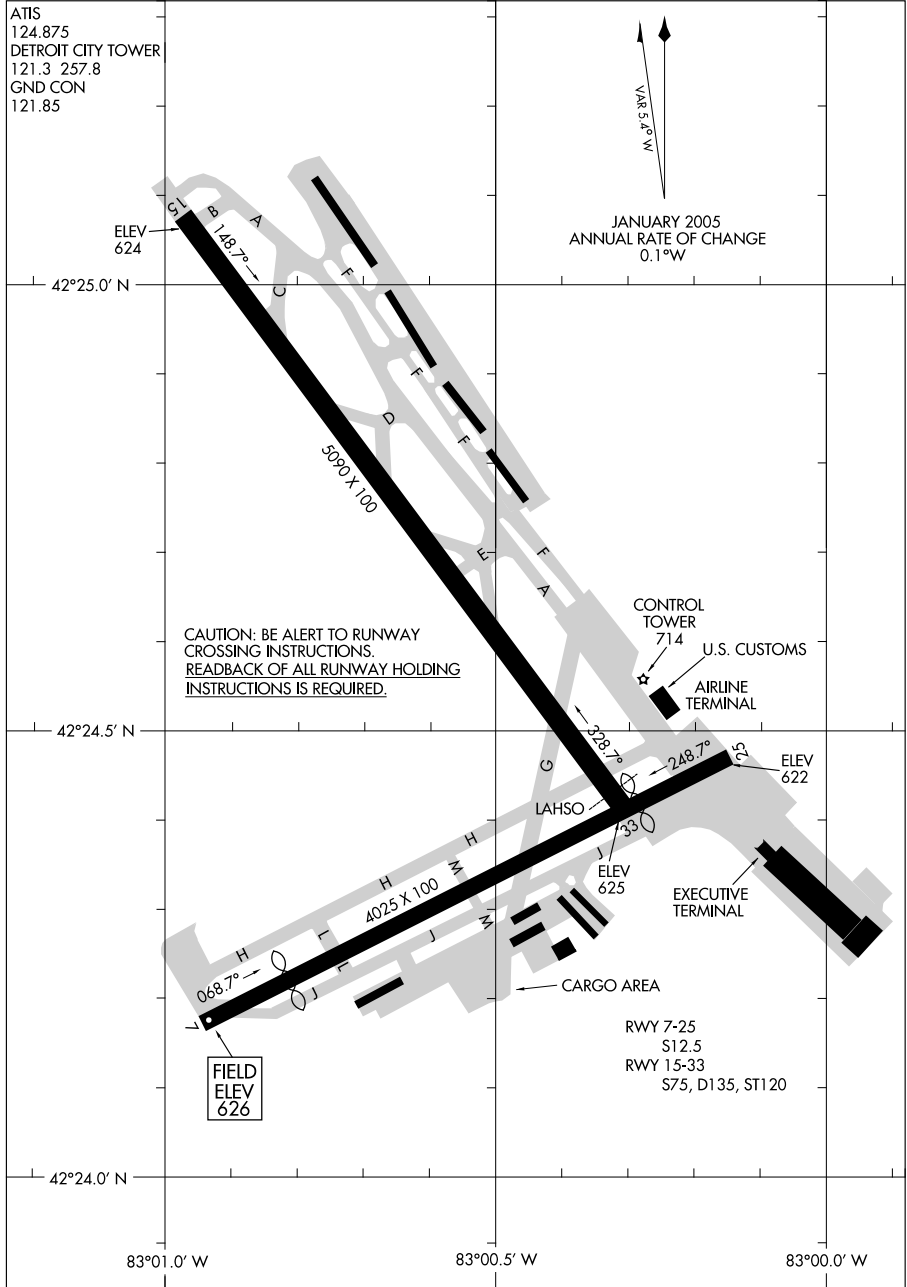
DECATUR, ILLINOIS  
DECATUR (DEC)

09015

# AIRPORT DIAGRAM

DETROIT/ COLEMAN A. YOUNG MUNI (DET)  
DETROIT, MICHIGAN

AL-118 (FAA)



# AIRPORT DIAGRAM

09015

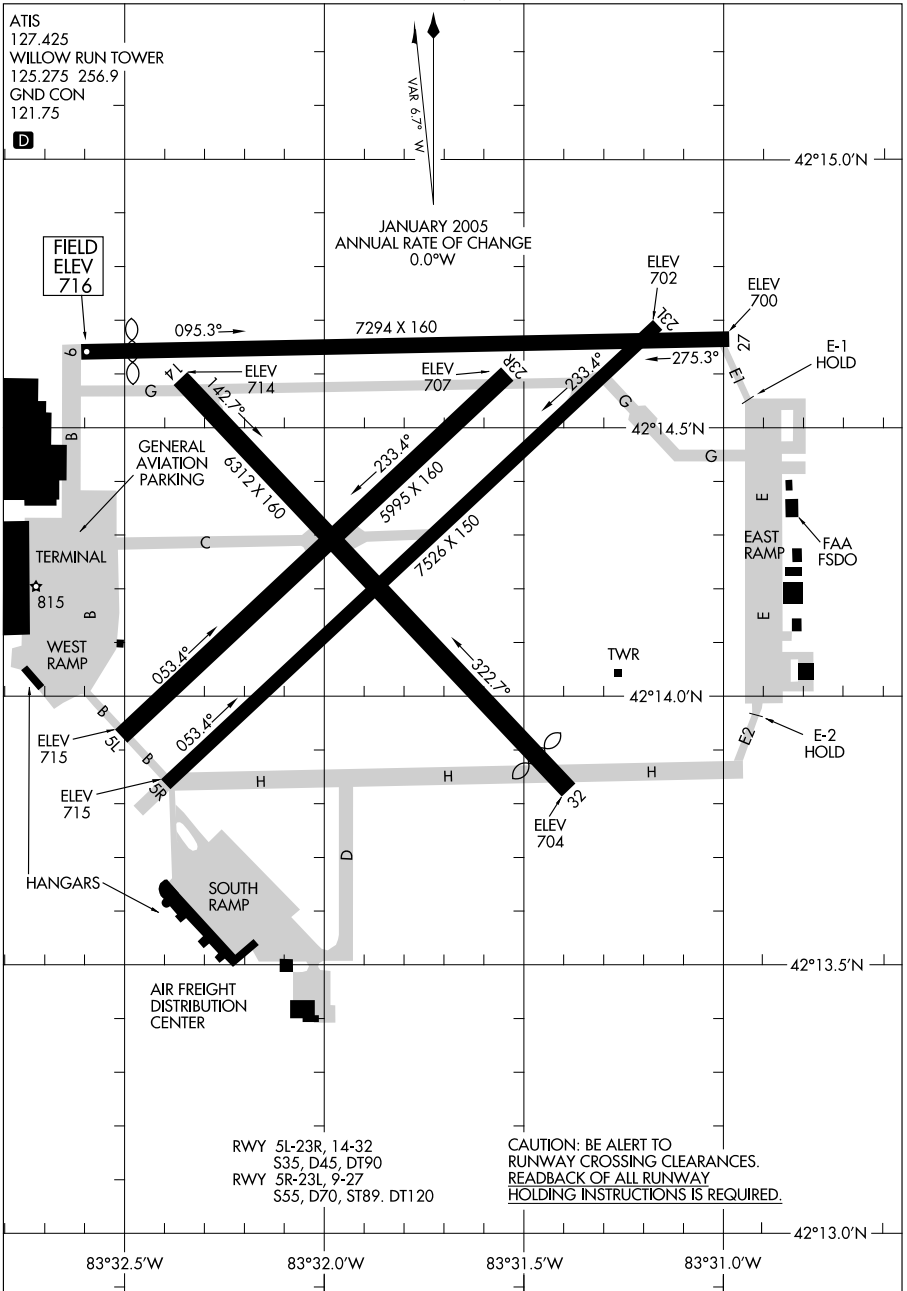
DETROIT, MICHIGAN  
DETROIT/ COLEMAN A. YOUNG MUNI (DET)



10098

# AIRPORT DIAGRAM

DETROIT/WILLOW RUN (YIP)  
DETROIT, MICHIGAN



# AIRPORT DIAGRAM

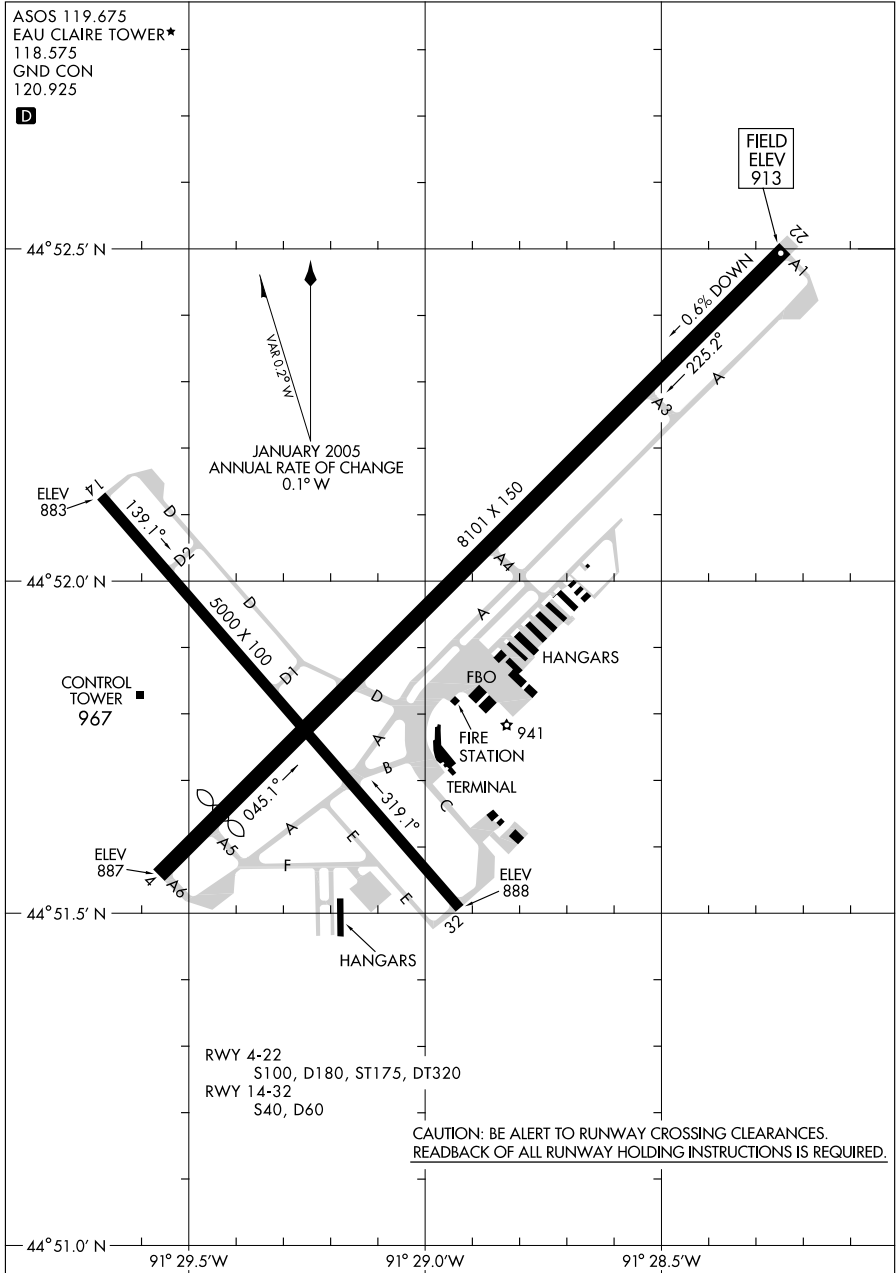
10098

DETROIT, MICHIGAN  
DETROIT/WILLOW RUN (YIP)

09071

# AIRPORT DIAGRAM

EAU CLAIRE/CHIPPEWA VALLEY RGNL (E.A.U)  
AL-937 (FAA) EAU CLAIRE, WISCONSIN



# AIRPORT DIAGRAM

09071

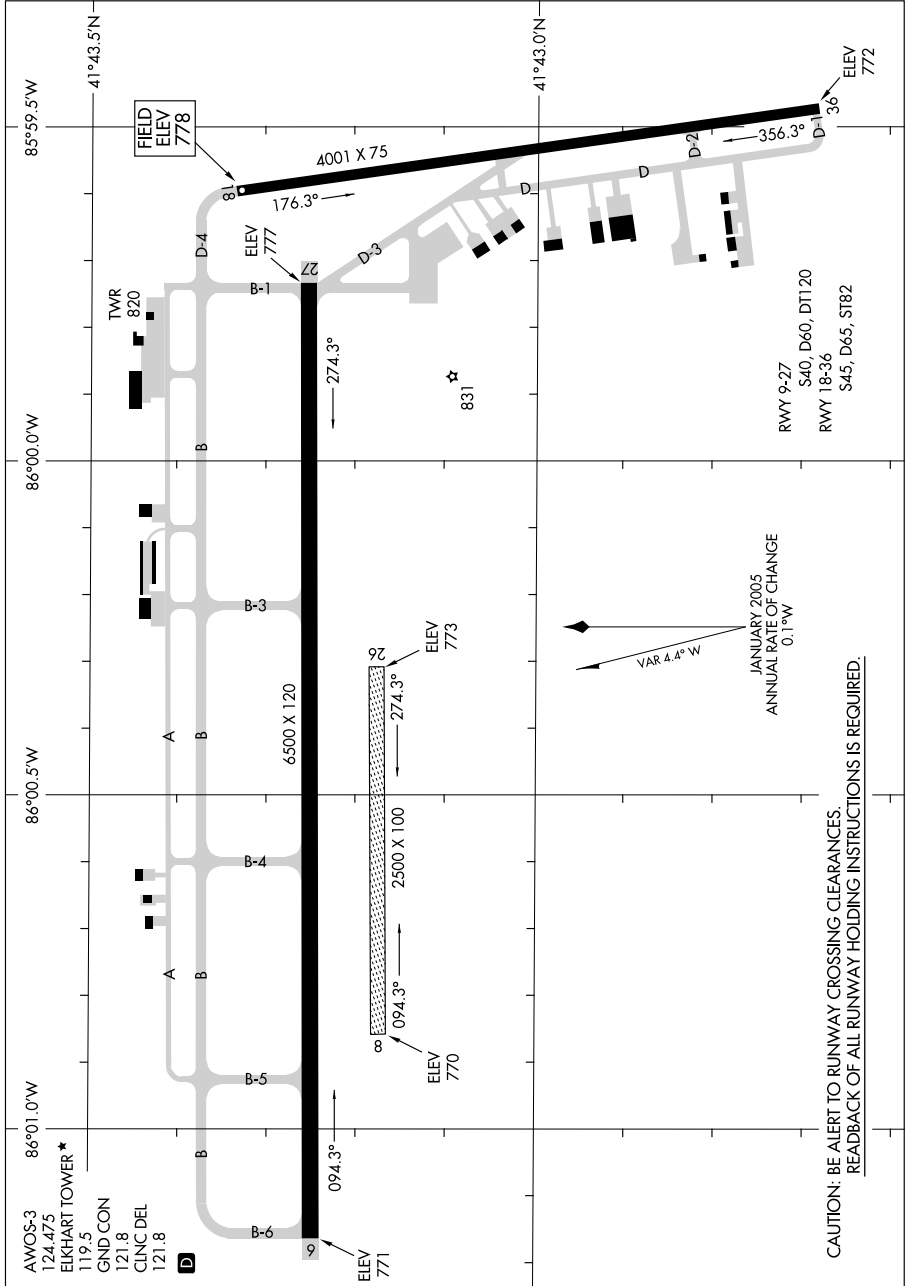
EAU CLAIRE, WISCONSIN  
EAU CLAIRE/CHIPPEWA VALLEY RGNL (E.A.U)

10042

# AIRPORT DIAGRAM

AL-5287 (FAA)

ELKHART MUNI (EKM)  
ELKHART, INDIANA



# AIRPORT DIAGRAM

ELKHART, INDIANA  
ELKHART MUNI (EKM)

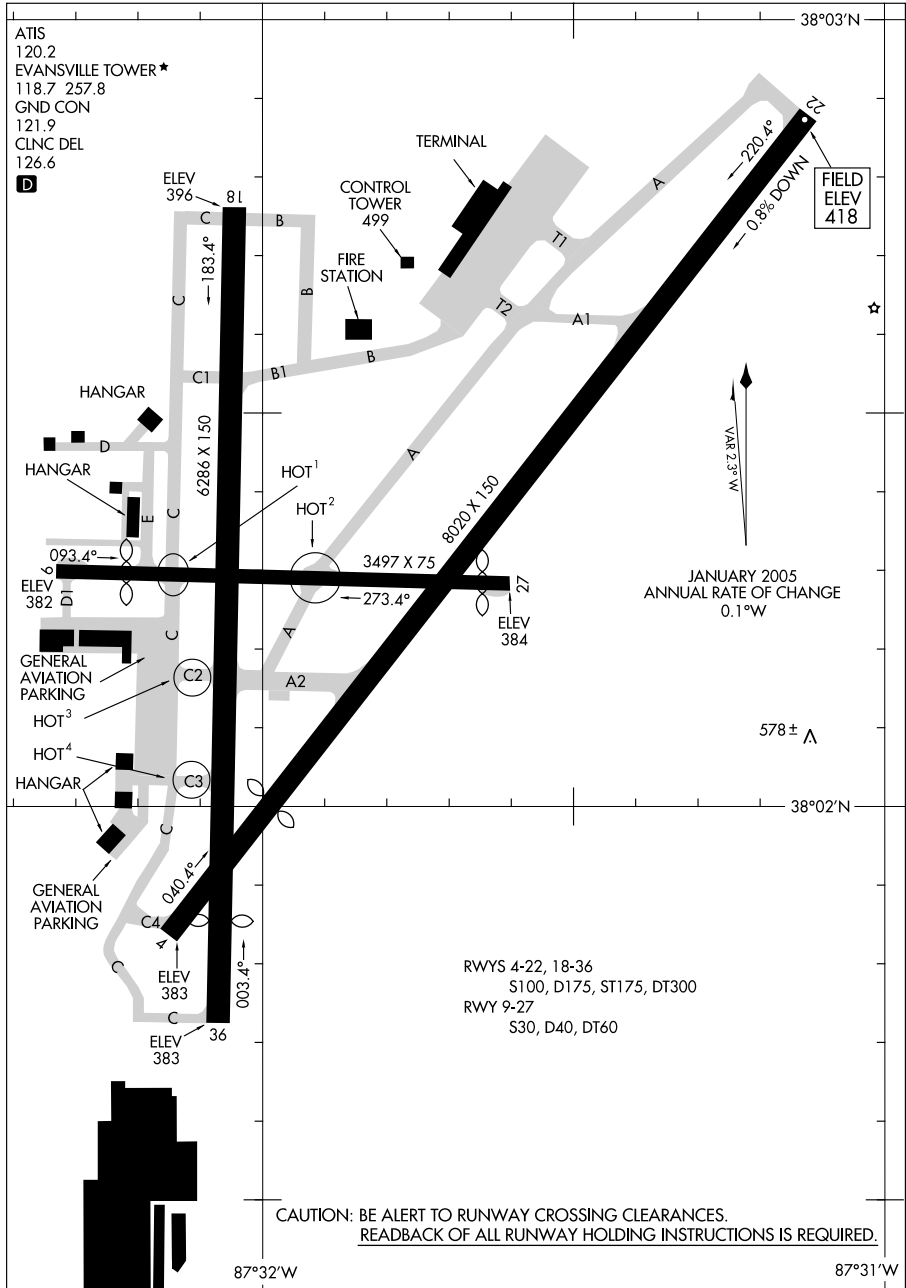
10042

09351

# AIRPORT DIAGRAM

AL-513 (FAA)

EVANSVILLE RGNL (EVV)  
EVANSVILLE, INDIANA



# AIRPORT DIAGRAM

09351

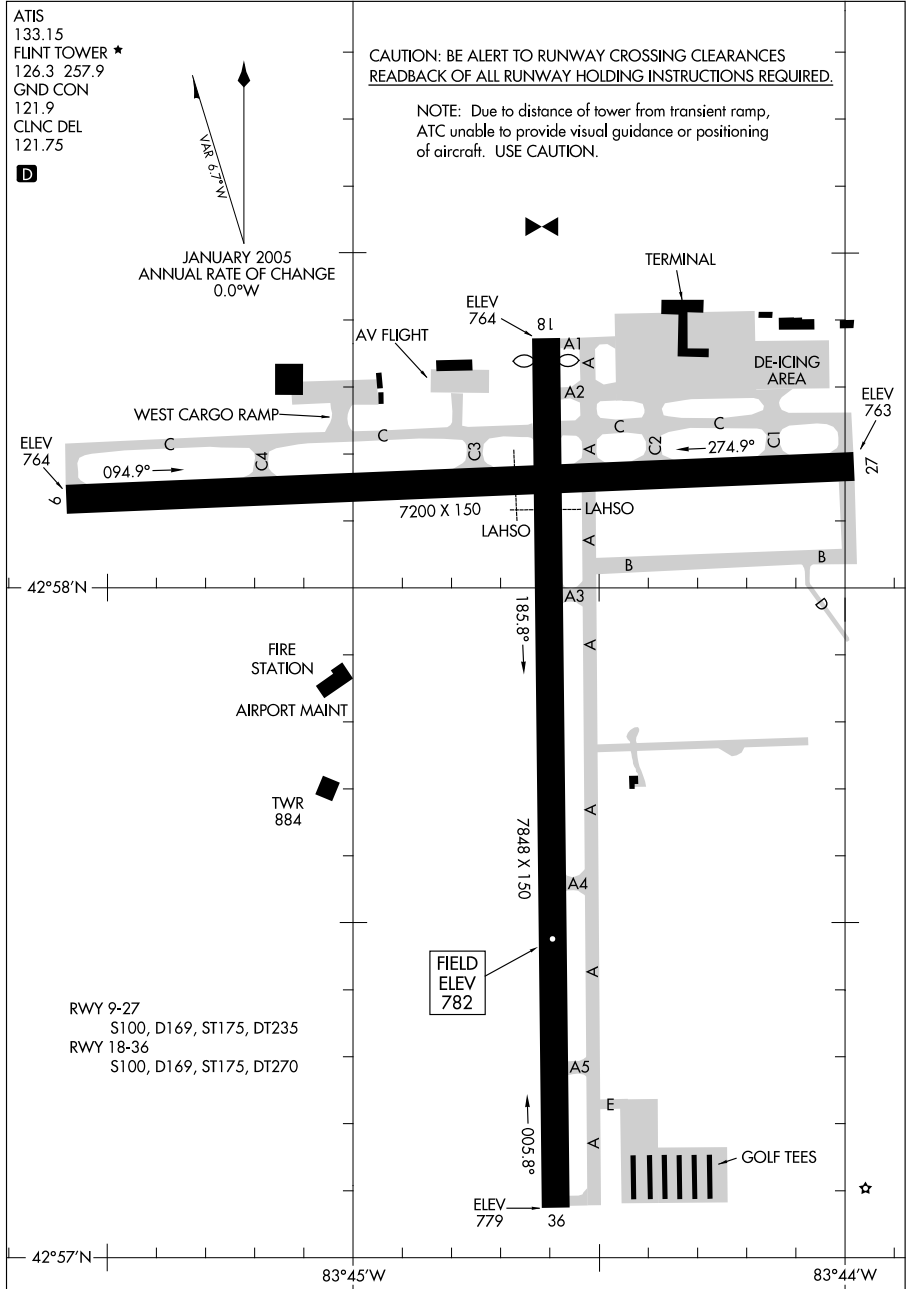
EVANSVILLE, INDIANA  
EVANSVILLE RGNL (EVV)

10042

# AIRPORT DIAGRAM

AL-618 (FAA)

FLINT / BISHOP INTL (FNT)  
FLINT, MICHIGAN



# AIRPORT DIAGRAM

10042

FLINT, MICHIGAN  
FLINT / BISHOP INTL (FNT)

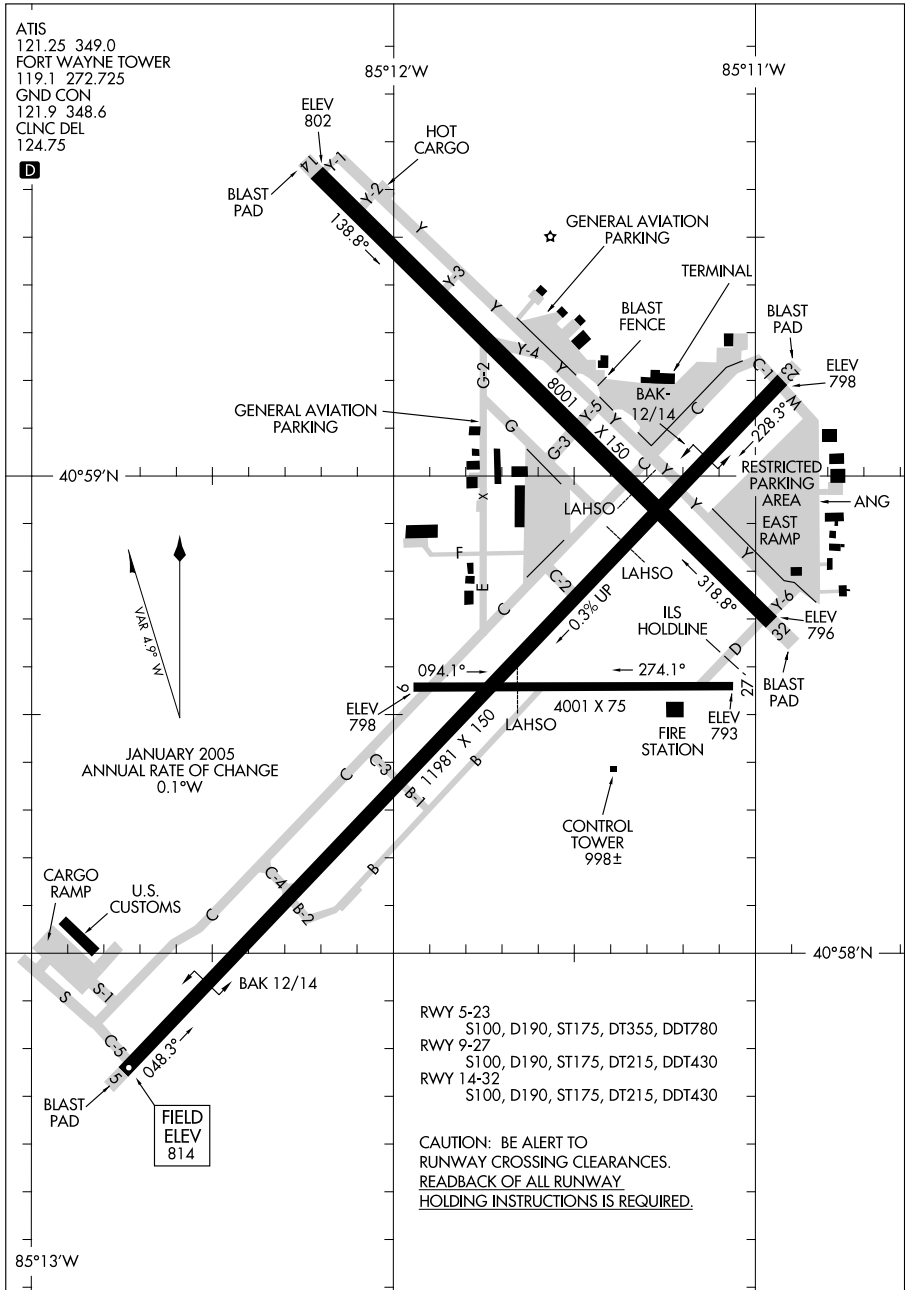


09295

AIRPORT DIAGRAM

AL-156 (FAA)

FORT WAYNE INTL (F.W.A.)  
FORT WAYNE, INDIANA



AIRPORT DIAGRAM

09295

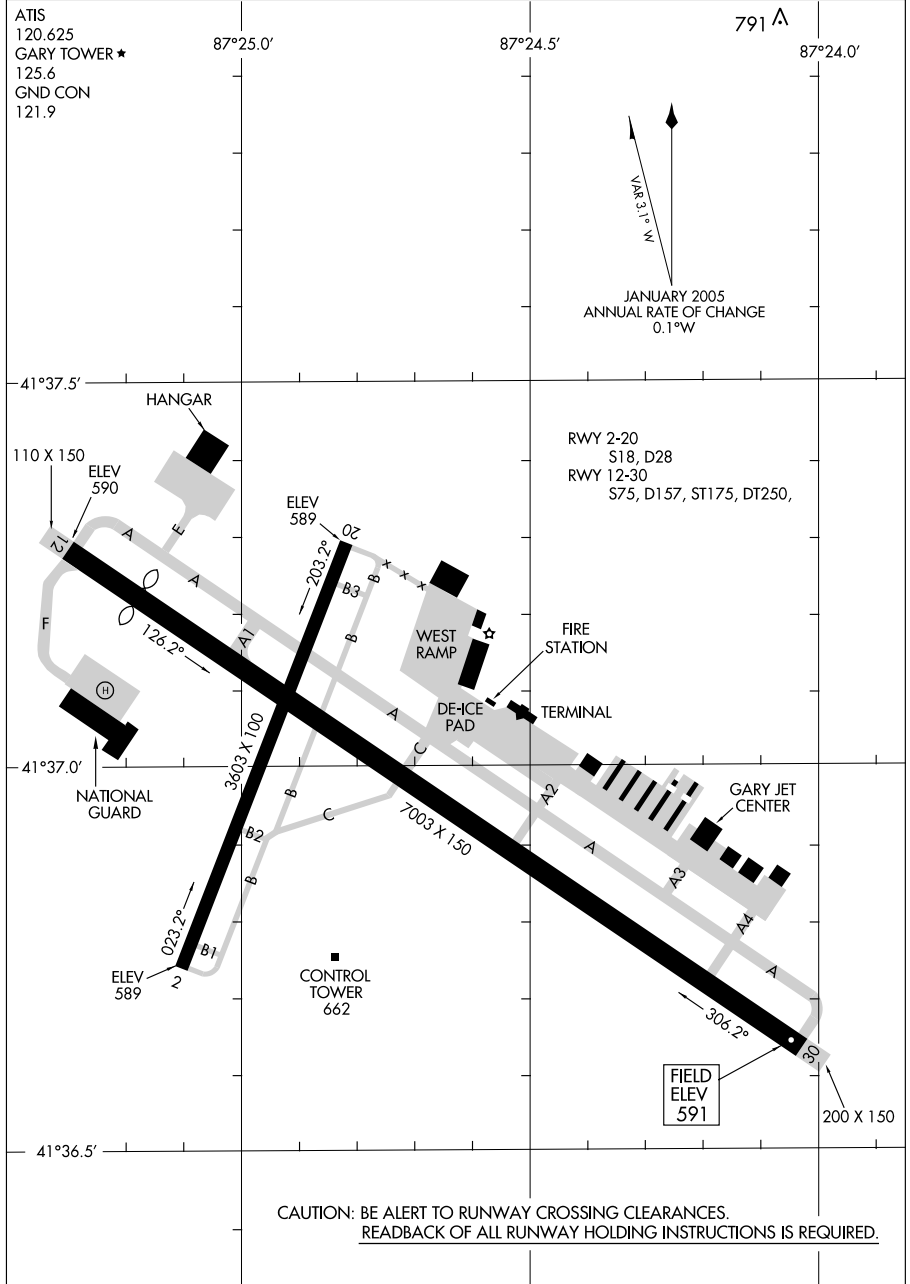
FORT WAYNE, INDIANA  
FORT WAYNE INTL (F.W.A.)

09015

AIRPORT DIAGRAM

AL-748 (FAA)

GARY/CHICAGO INTL (GYY)  
GARY, INDIANA



AIRPORT DIAGRAM  
09015

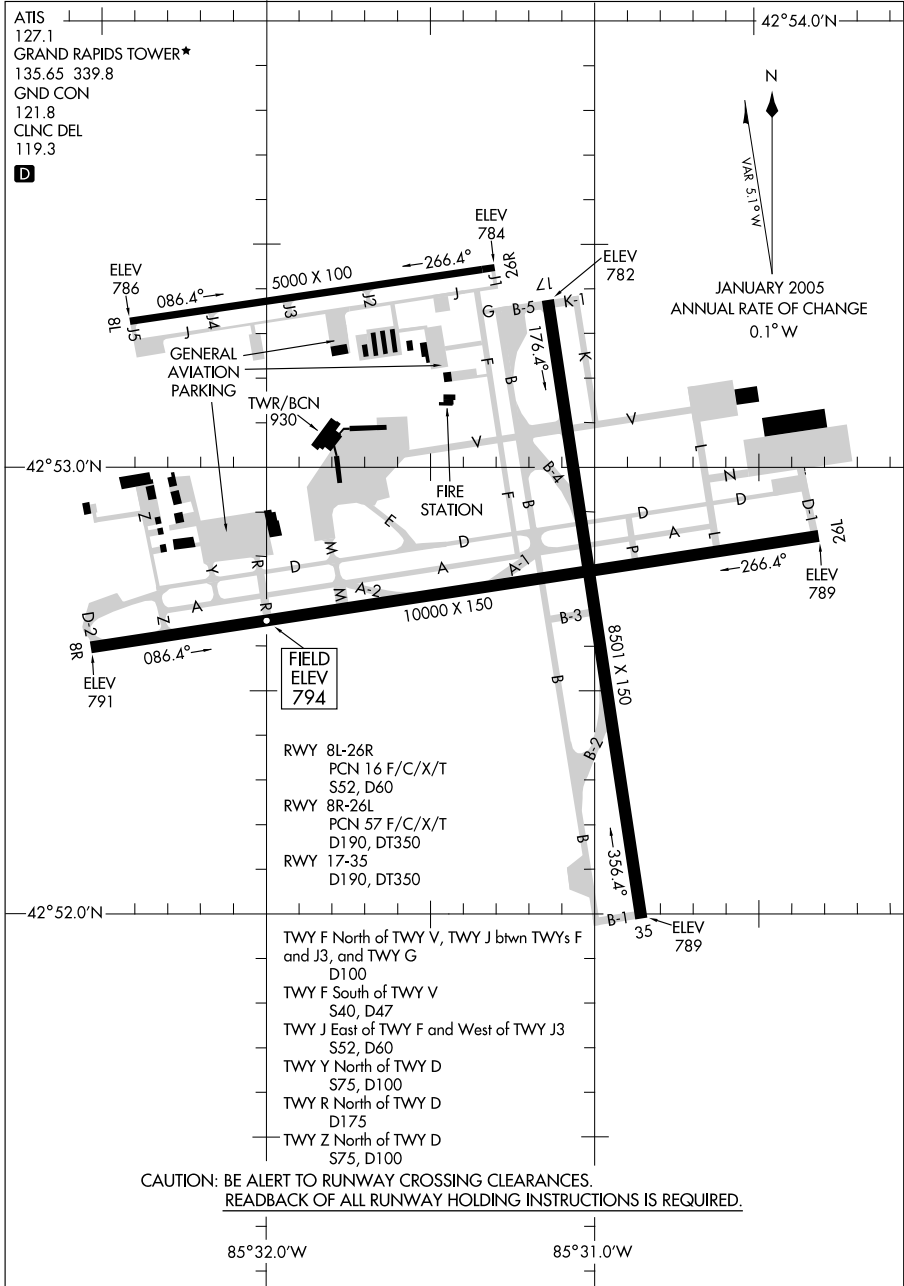
GARY, INDIANA  
GARY/CHICAGO INTL (GYY)

10098

AIRPORT DIAGRAM

AL-5184 (FAA)

GRAND RAPIDS / GERALD R. FORD INTL (G.R.R.)  
GRAND RAPIDS, MICHIGAN



AIRPORT DIAGRAM

10098

GRAND RAPIDS, MICHIGAN  
GRAND RAPIDS / GERALD R. FORD INTL (G.R.R.)



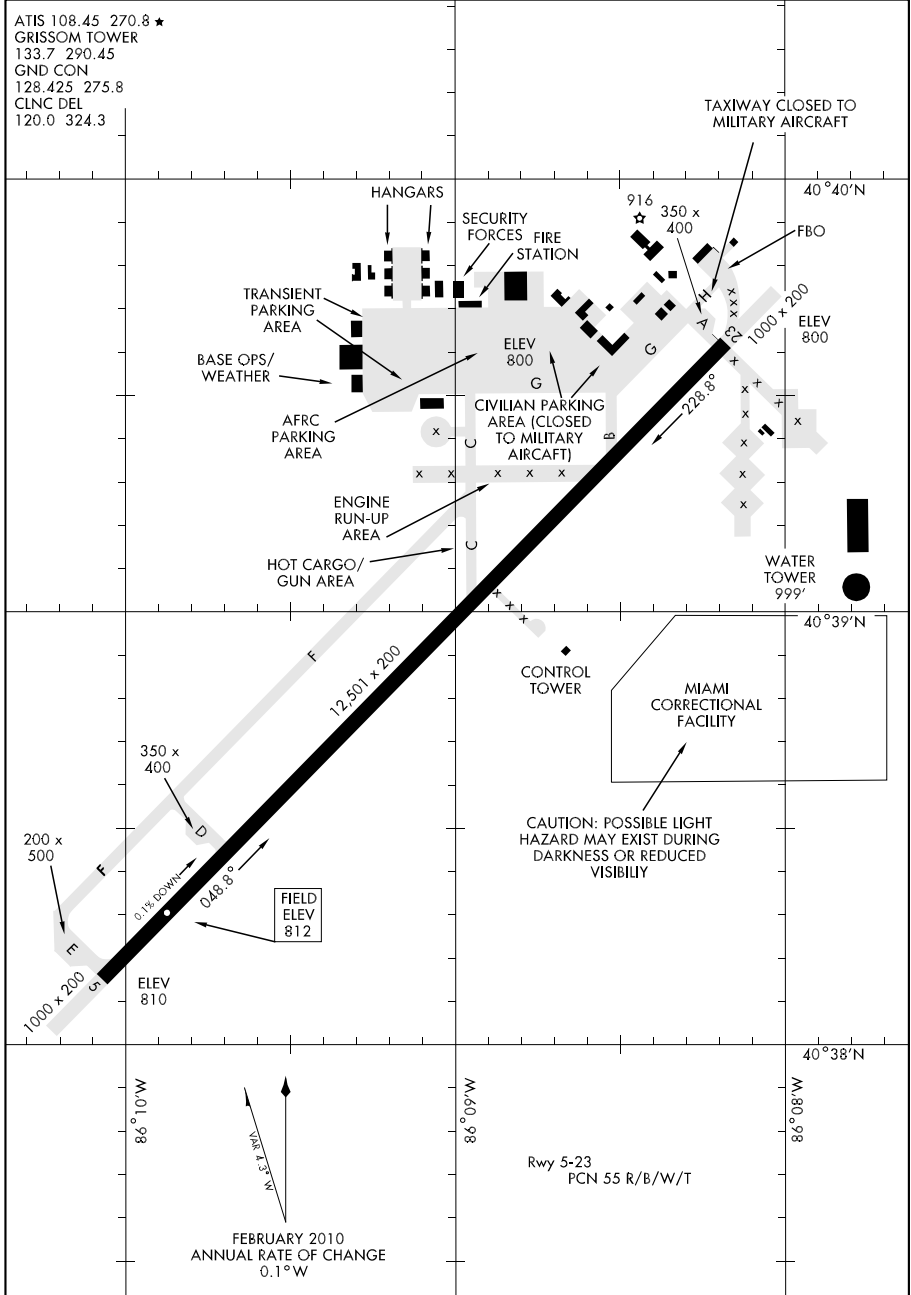
10042

AIRPORT DIAGRAM

AFD-470 [USAF]

GRISSOM ARB (KGUS)

PERU, INDIANA



AIRPORT DIAGRAM

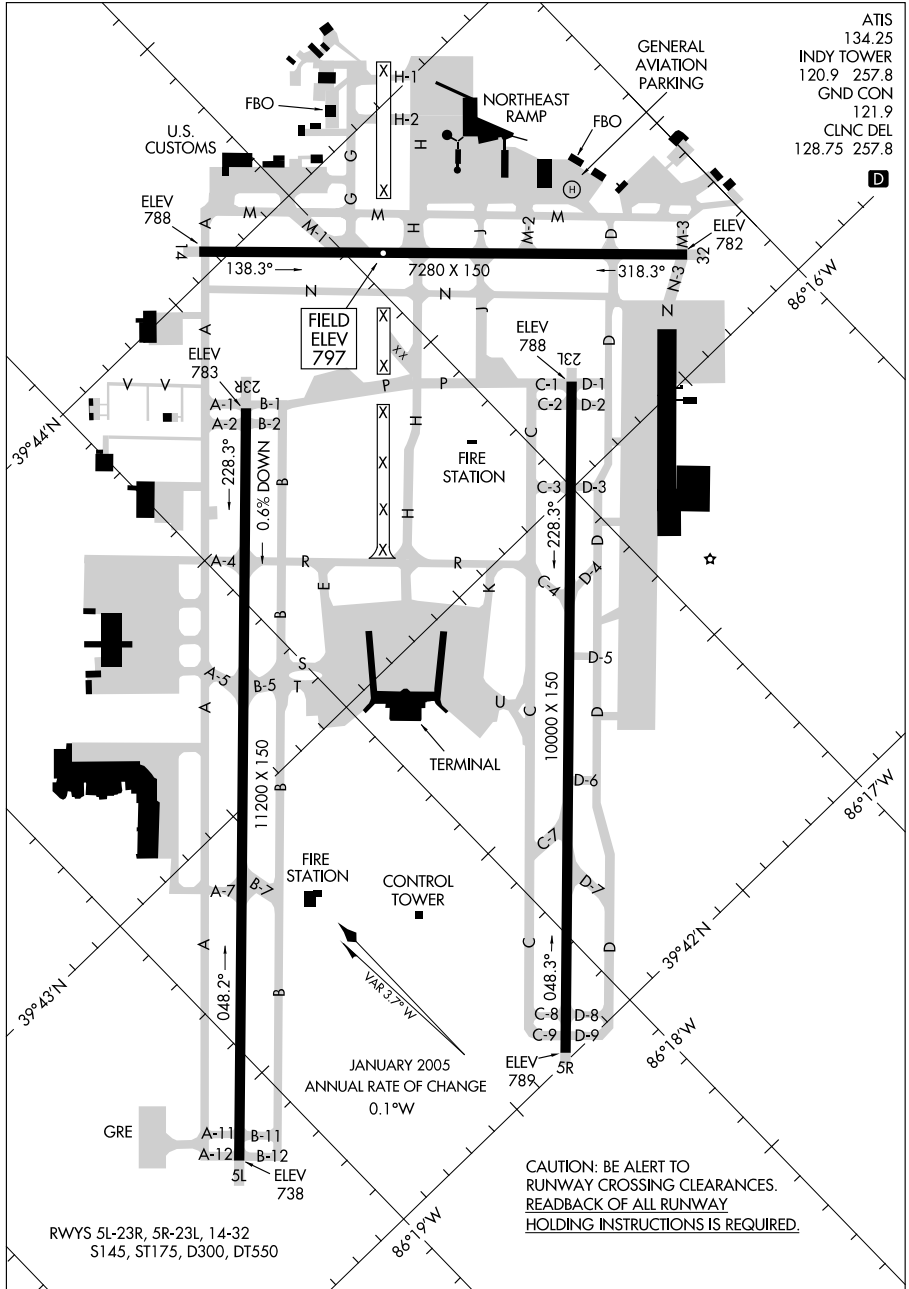
PERU, INDIANA  
GRISSOM ARB (KGUS)

09351

# AIRPORT DIAGRAM

AL-203 (FAA)

INDIANAPOLIS INTL (IND)  
INDIANAPOLIS, INDIANA



ATIS 134.25  
 INDY TOWER 120.9 257.8  
 GND CON 121.9  
 CLNC DEL 128.75 257.8

RWYS 5L-23R, 5R-23L, 14-32  
 S145, ST175, D300, DT550

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

# AIRPORT DIAGRAM

09351

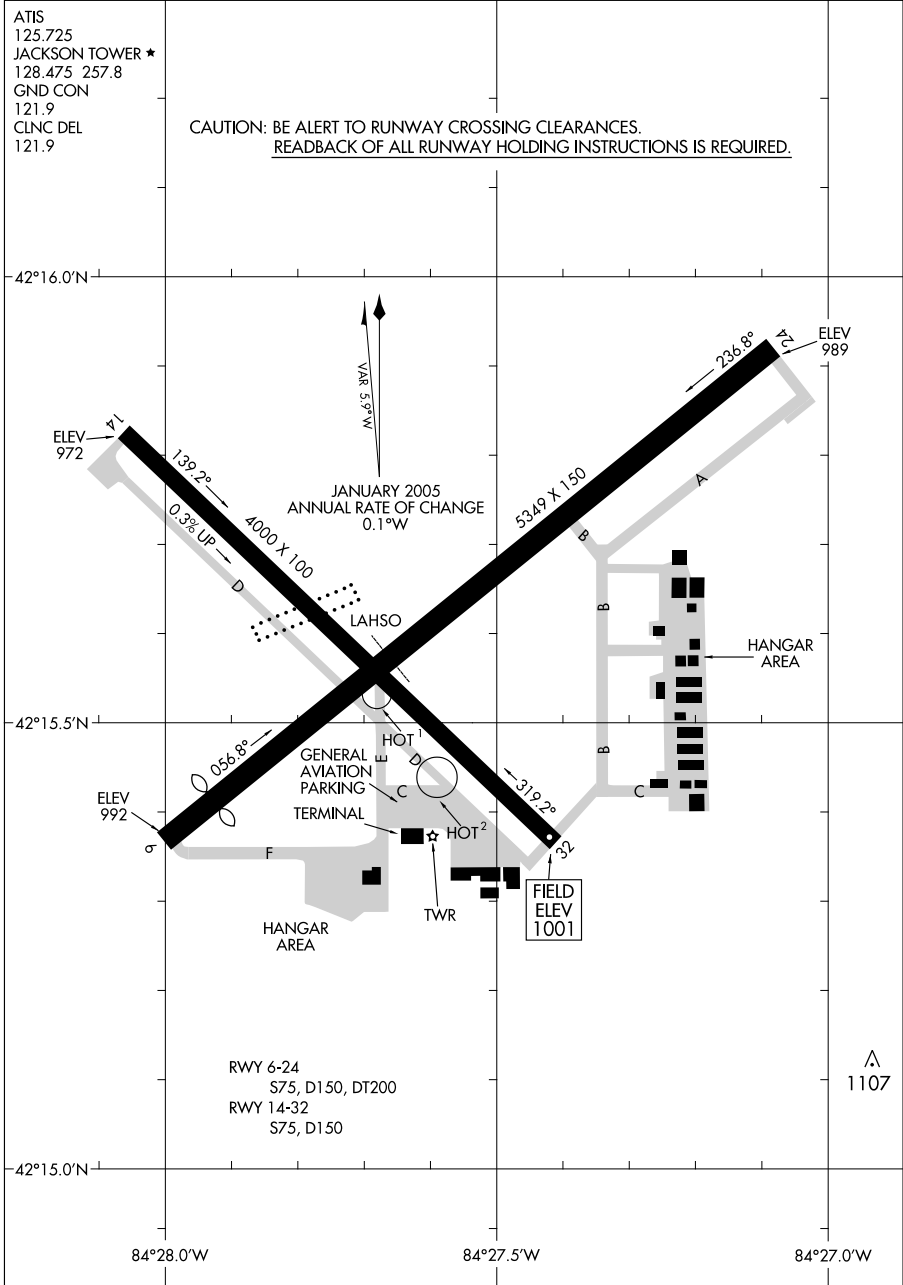
INDIANAPOLIS, INDIANA  
INDIANAPOLIS INTL (IND)

10042

AIRPORT DIAGRAM

AL-861 (FAA)

JACKSON COUNTY-REYNOLDS FIELD (JXXN)  
JACKSON, MICHIGAN



AIRPORT DIAGRAM

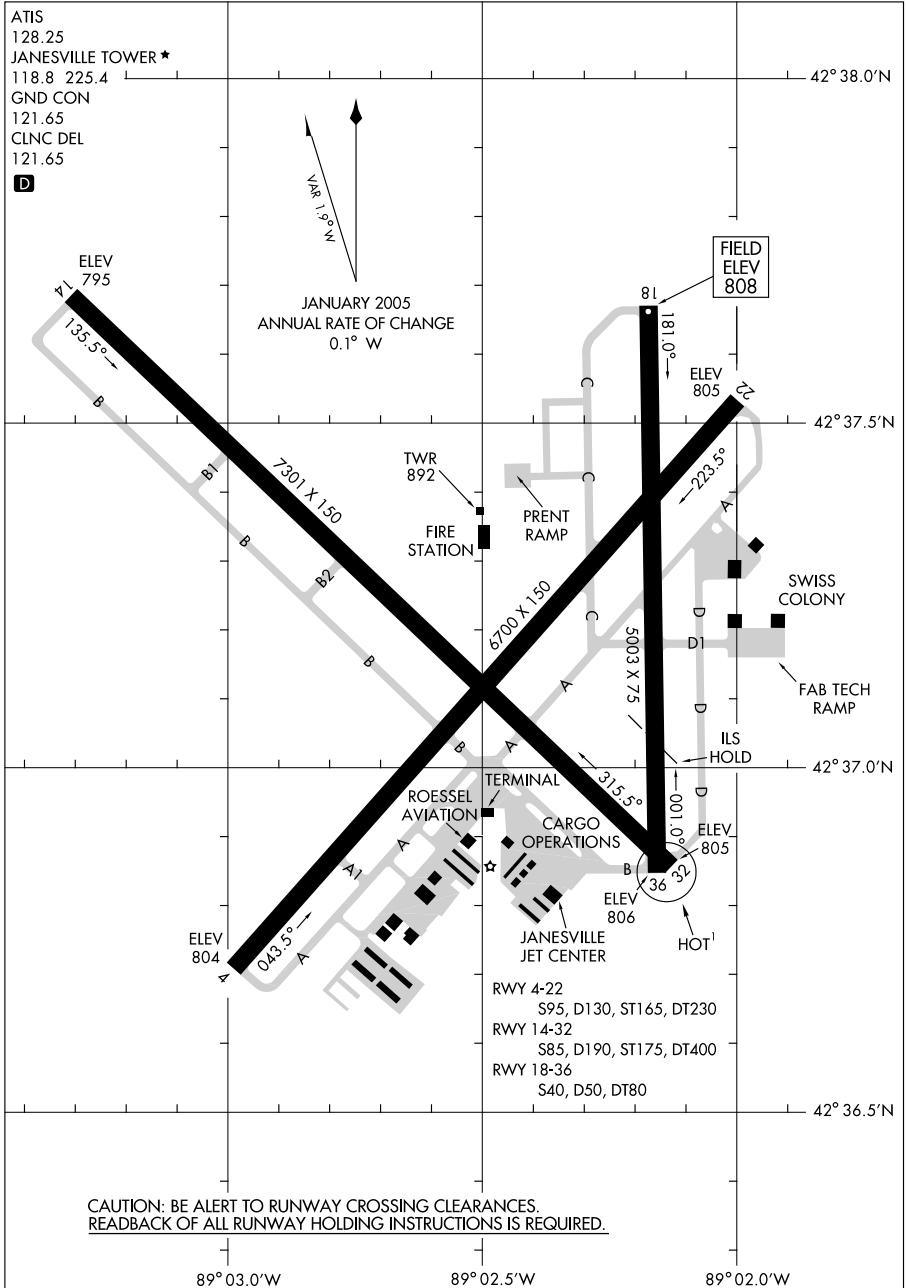
10042

JACKSON, MICHIGAN  
JACKSON COUNTY-REYNOLDS FIELD (JXXN)

10098

# AIRPORT DIAGRAM

JANESVILLE/SOUTHERN WISCONSIN RGNL (JVL)  
AL-938 (FAA) JANESVILLE, WISCONSIN



# AIRPORT DIAGRAM

10098

JANESVILLE, WISCONSIN  
JANESVILLE/SOUTHERN WISCONSIN RGNL (JVL)

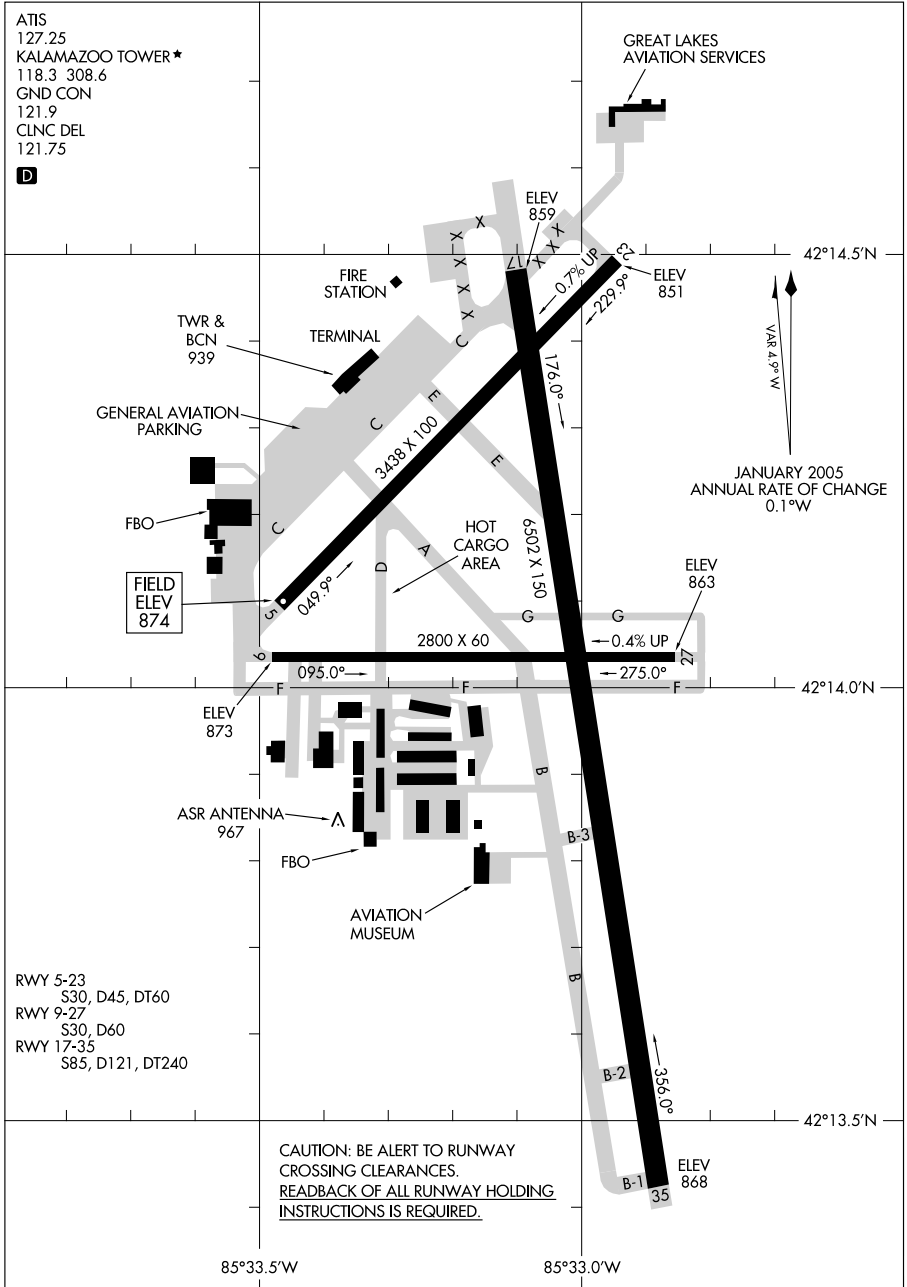


10098

AIRPORT DIAGRAM

AL-717 (FAA)

KALAMAZOO/ BATTLE CREEK INTL (AZO)  
KALAMAZOO, MICHIGAN



AIRPORT DIAGRAM

10098

KALAMAZOO, MICHIGAN  
KALAMAZOO/ BATTLE CREEK INTL (AZO)

09239

AIRPORT DIAGRAM

AL-5449 (FAA)

KENOSHA RGNL (ENW)  
KENOSHA, WISCONSIN

ATIS

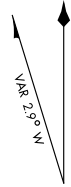
127.175

KENOSHA TOWER ★

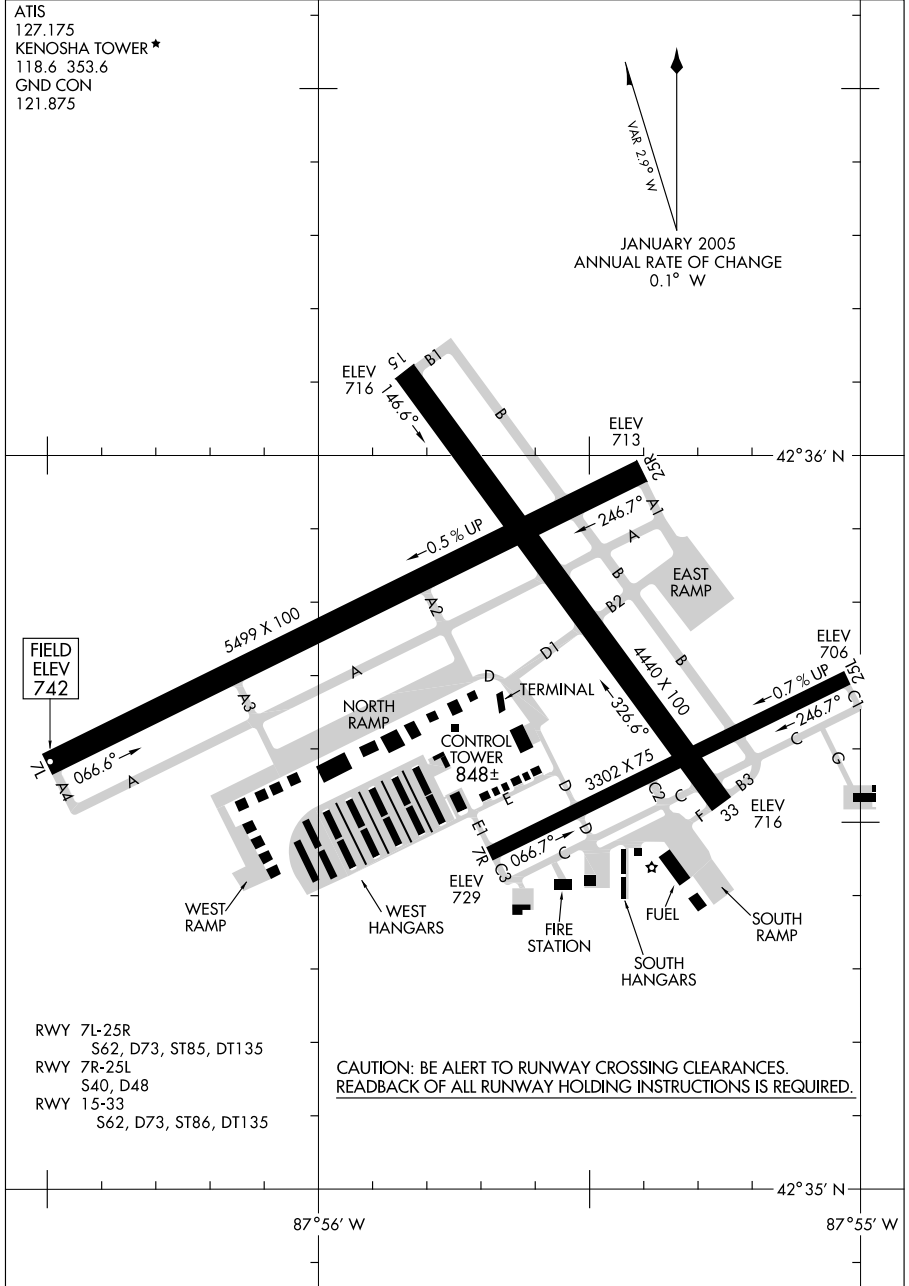
118.6 353.6

GND CON

121.875



JANUARY 2005  
ANNUAL RATE OF CHANGE  
0.1° W



FIELD  
ELEV  
742

- RWY 7L-25R  
S62, D73, ST85, DT135
- RWY 7R-25L  
S40, D48
- RWY 15-33  
S62, D73, ST86, DT135

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

AIRPORT DIAGRAM

09239

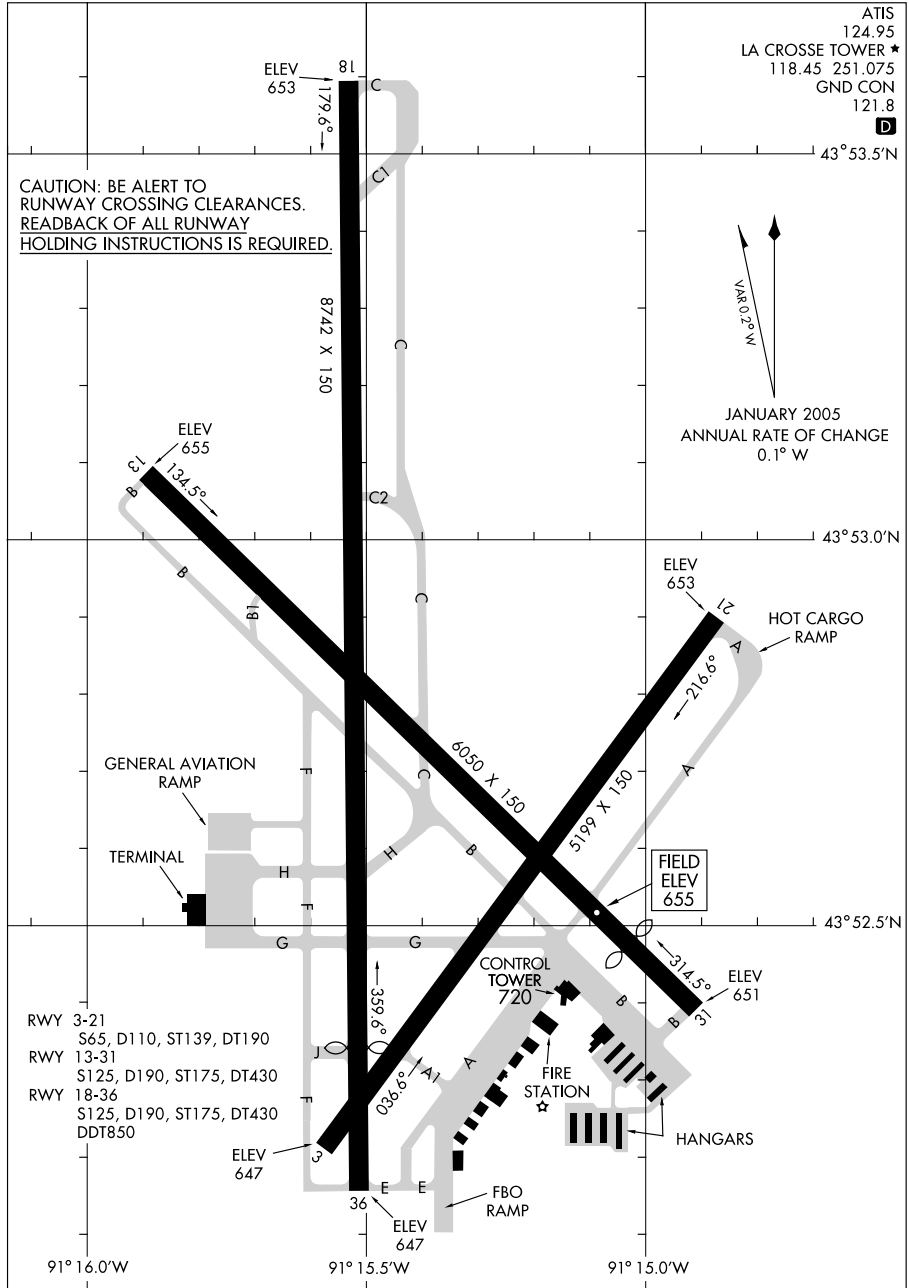
KENOSHA, WISCONSIN  
KENOSHA RGNL (ENW)

09295

AIRPORT DIAGRAM

AL-219 (FAA)

LA CROSSE MUNI (LSE)  
LA CROSSE, WISCONSIN



AIRPORT DIAGRAM  
09295

LA CROSSE, WISCONSIN  
LA CROSSE MUNI (LSE)

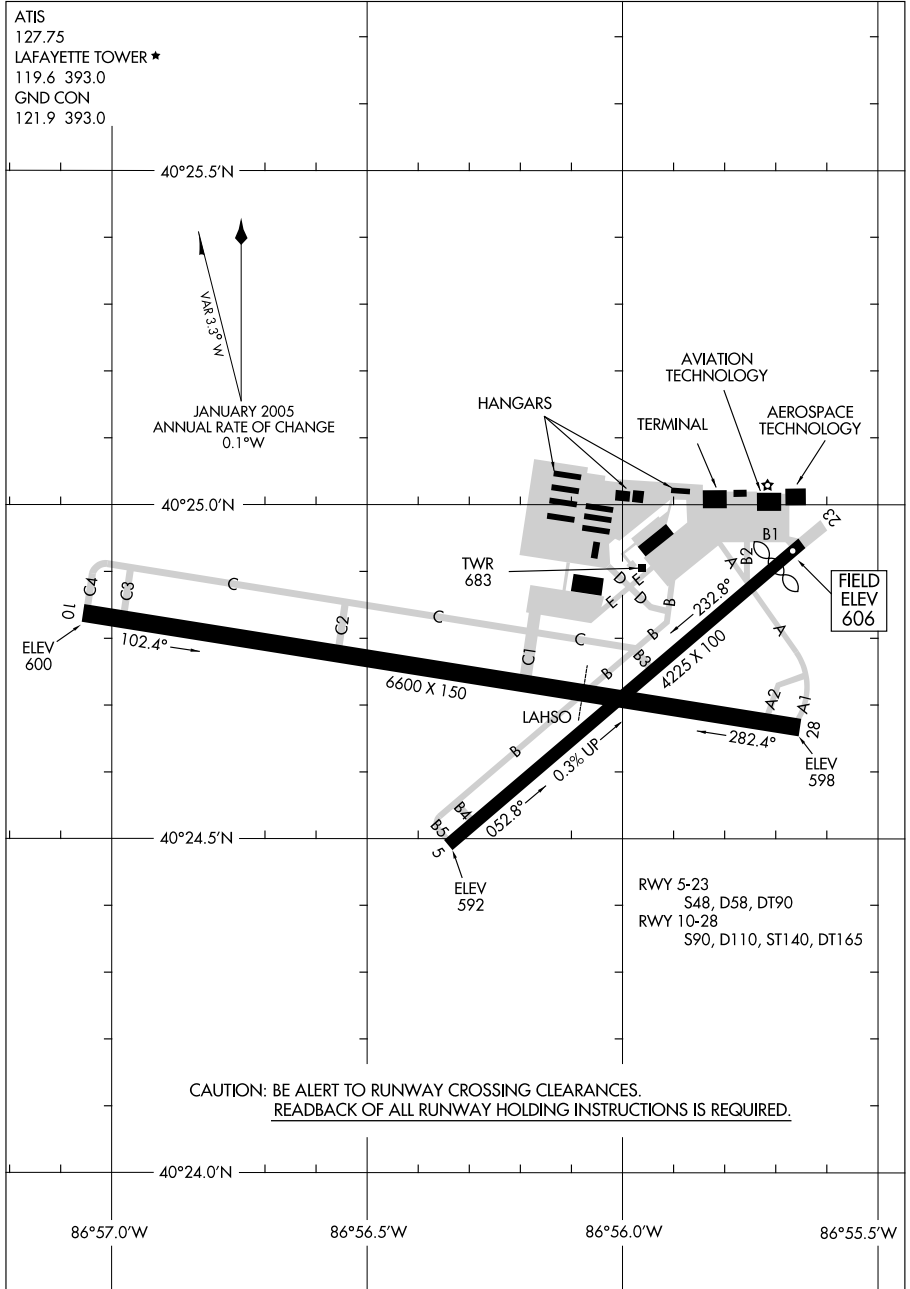
10098

# AIRPORT DIAGRAM

AL-220 (FAA)

LAFAYETTE/ PURDUE UNIVERSITY (LAF)  
LAFAYETTE, INDIANA

ATIS  
 127.75  
 LAFAYETTE TOWER ★  
 119.6 393.0  
 GND CON  
 121.9 393.0



# AIRPORT DIAGRAM

10098

LAFAYETTE, INDIANA  
LAFAYETTE/ PURDUE UNIVERSITY (LAF)



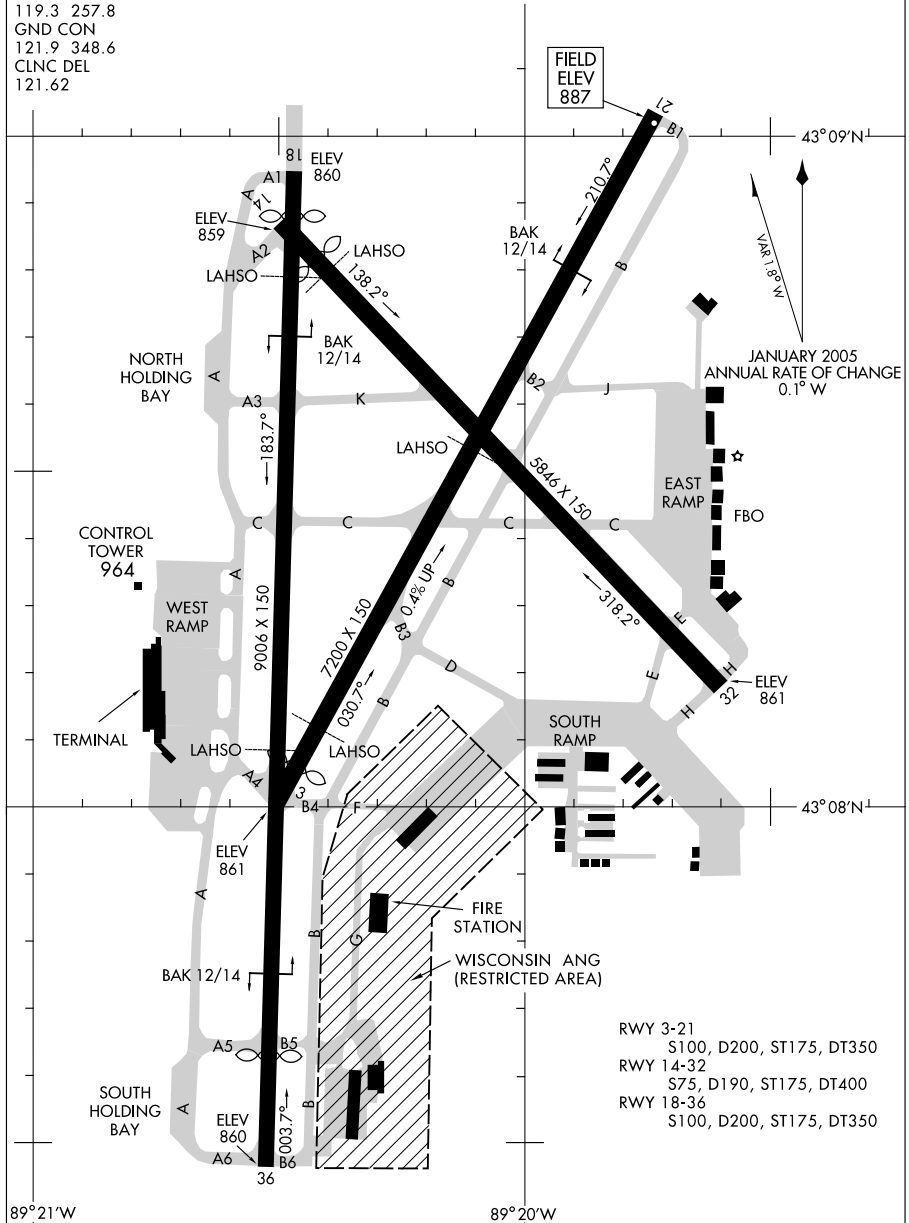
09351

# AIRPORT DIAGRAM

MADISON/DANE COUNTY RGNL TRUAX FIELD (MSN)  
AL-245 (FAA)  
MADISON, WISCONSIN

ATIS  
124.65 278.3  
MADISON TOWER ★  
119.3 257.8  
GND CON  
121.9 348.6  
CLNC DEL  
121.62

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



# AIRPORT DIAGRAM

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

09351

- RWY 3-21  
S100, D200, ST175, DT350
- RWY 14-32  
S75, D190, ST175, DT400
- RWY 18-36  
S100, D200, ST175, DT350



10042

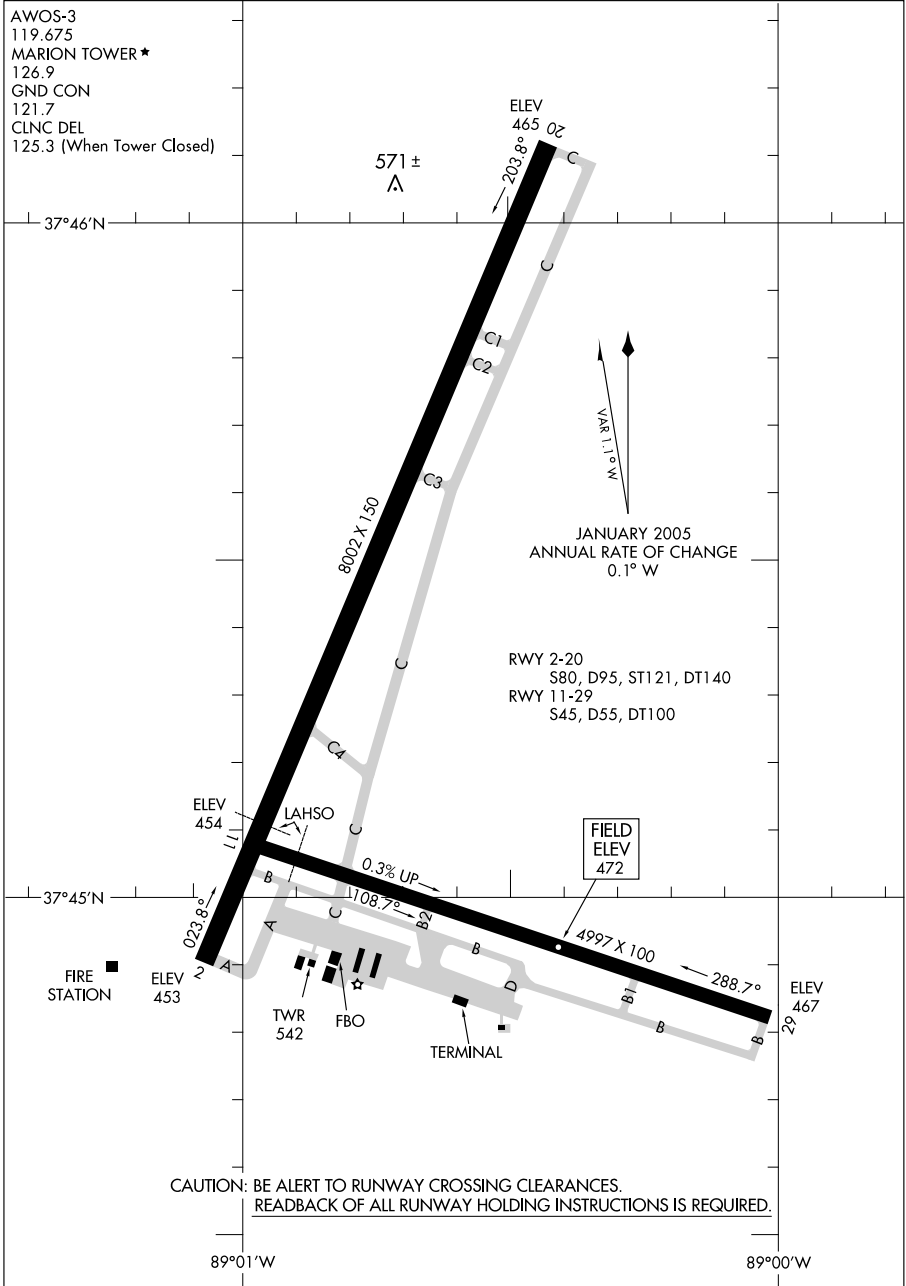
# AIRPORT DIAGRAM

MARION/WILLIAMSON COUNTY RGNL (MWA)

AL-5215 (FAA)

MARION, ILLINOIS

AWOS-3  
 119.675  
 MARION TOWER ★  
 126.9  
 GND CON  
 121.7  
 CLNC DEL  
 125.3 (When Tower Closed)



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

# AIRPORT DIAGRAM

10042

MARION, ILLINOIS  
MARION/WILLIAMSON COUNTY RGNL (MWA)

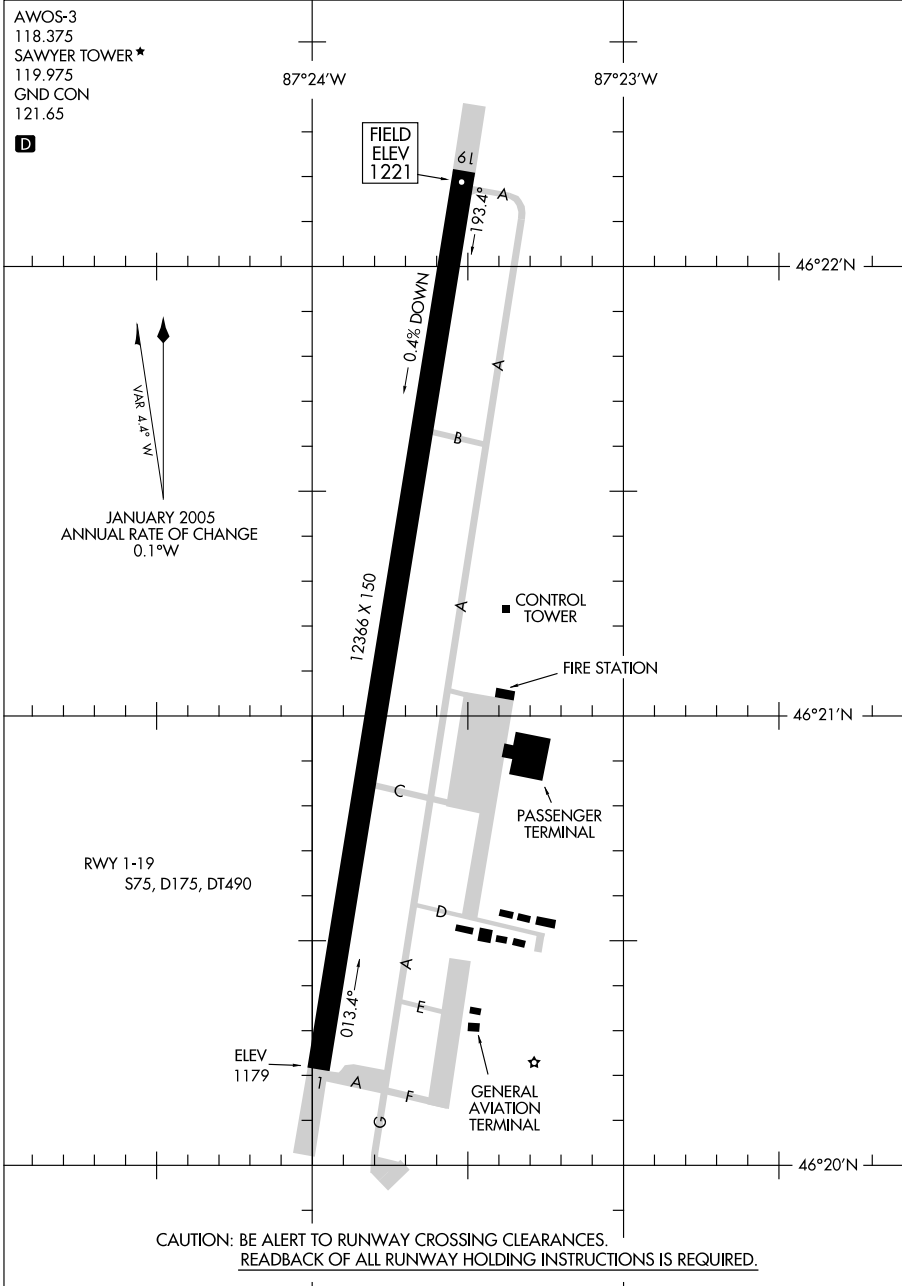


09295

AIRPORT DIAGRAM

AL-773 (FAA)

MARQUETTE/ SAWYER INTL (S.A.W)  
MARQUETTE, MICHIGAN



AIRPORT DIAGRAM

09295

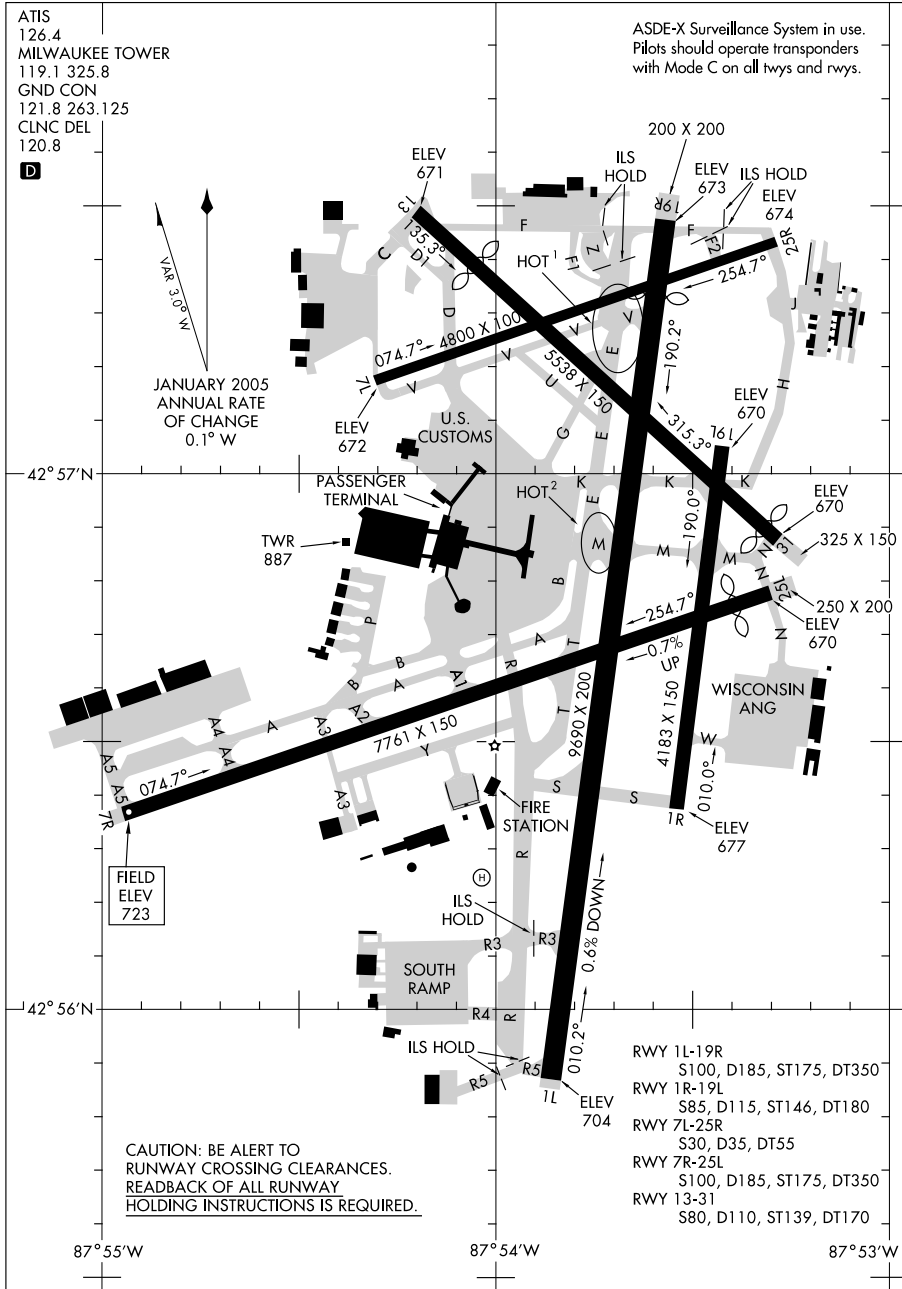
MARQUETTE, MICHIGAN  
MARQUETTE/ SAWYER INTL (S.A.W)

10042

AIRPORT DIAGRAM

AL-262 (FAA)

MILWAUKEE/GENERAL MITCHELL INTL (MKE)  
MILWAUKEE, WISCONSIN



AIRPORT DIAGRAM

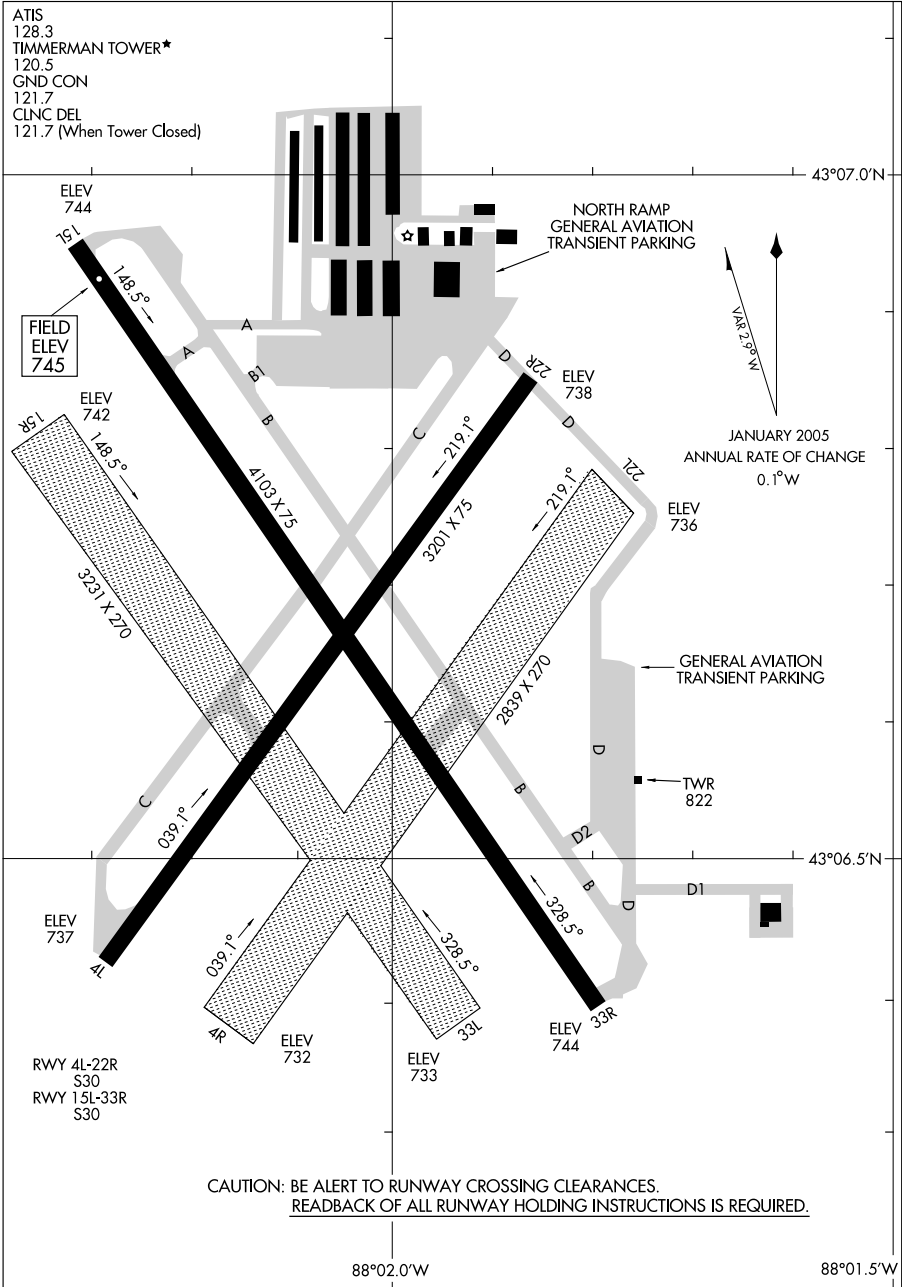
10042

MILWAUKEE, WISCONSIN  
MILWAUKEE/GENERAL MITCHELL INTL (MKE)

10098

# AIRPORT DIAGRAM

MILWAUKEE/LAWRENCE J. TIMMERMAN (MWC)  
AL-5077 (FAA) MILWAUKEE, WISCONSIN



# AIRPORT DIAGRAM

10098

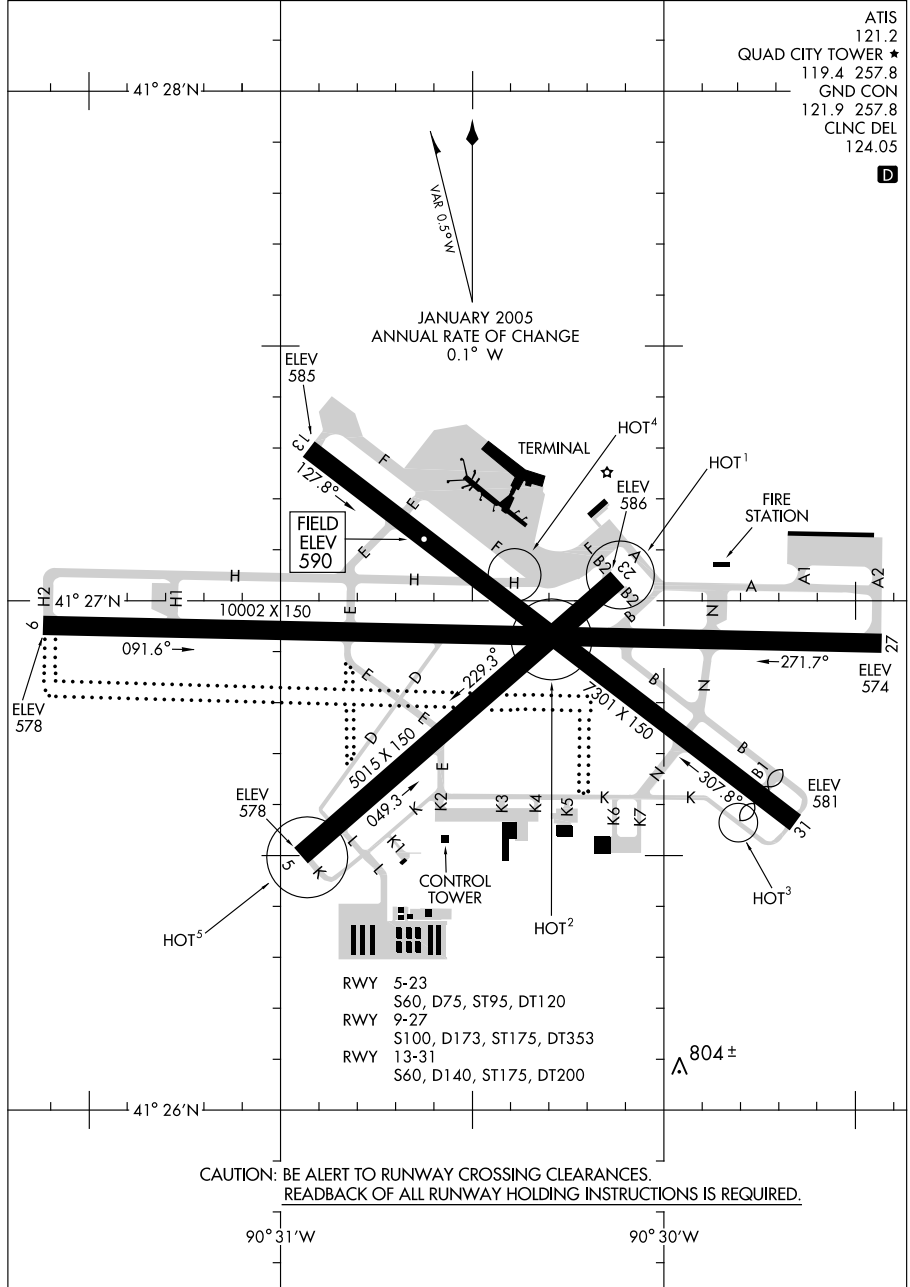
MILWAUKEE, WISCONSIN  
MILWAUKEE/LAWRENCE J. TIMMERMAN (MWC)

10042

# AIRPORT DIAGRAM

AL-269 (FAA)

MOLINE/QUAD CITY INTL (MLI)  
MOLINE, ILLINOIS



# AIRPORT DIAGRAM

10042

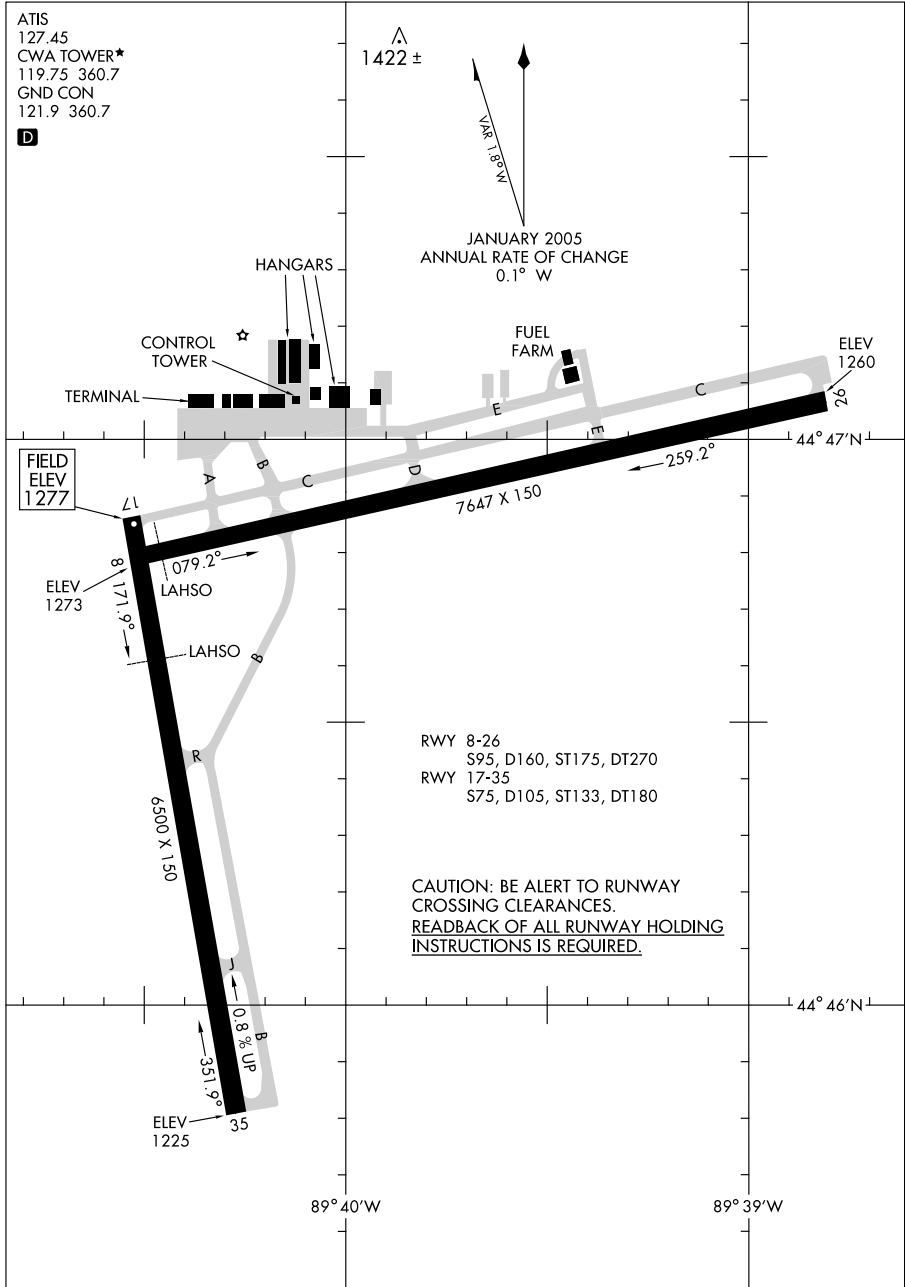
MOLINE, ILLINOIS  
MOLINE/QUAD CITY INTL (MLI)

09295

AIRPORT DIAGRAM

AL-5674 (FAA)

MOSINEE/CENTRAL WISCONSIN (CWA)  
MOSINEE, WISCONSIN



AIRPORT DIAGRAM

09295

MOSINEE, WISCONSIN  
MOSINEE/CENTRAL WISCONSIN (CWA)

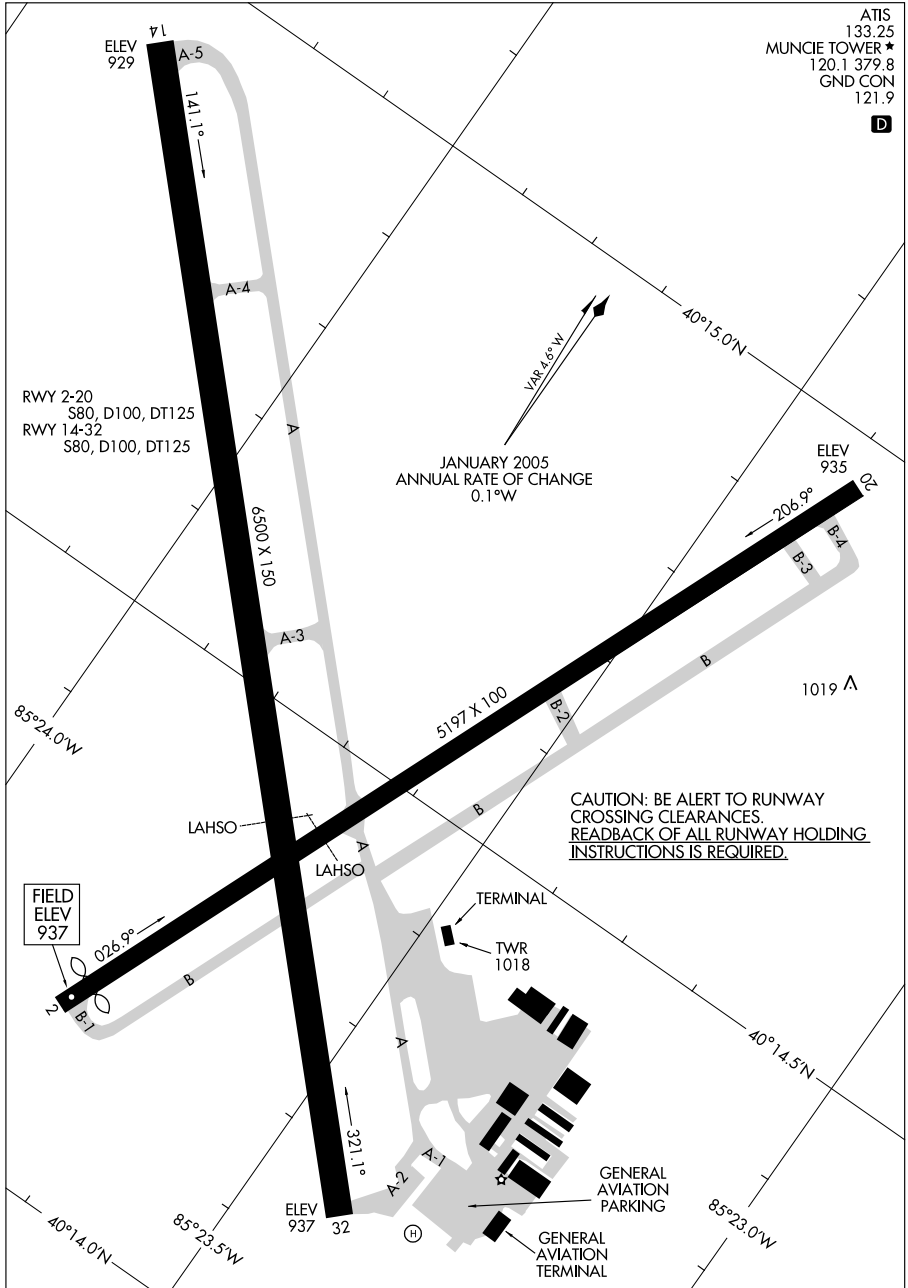
10098

# AIRPORT DIAGRAM

AL-5011 (FAA)

MUNCIE/DELAWARE COUNTY RGNL (MIE)  
MUNCIE, INDIANA

ATIS 133.25  
 MUNCIE TOWER ★ 120.1 379.8  
 GND CON 121.9  
D



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

# AIRPORT DIAGRAM

10098

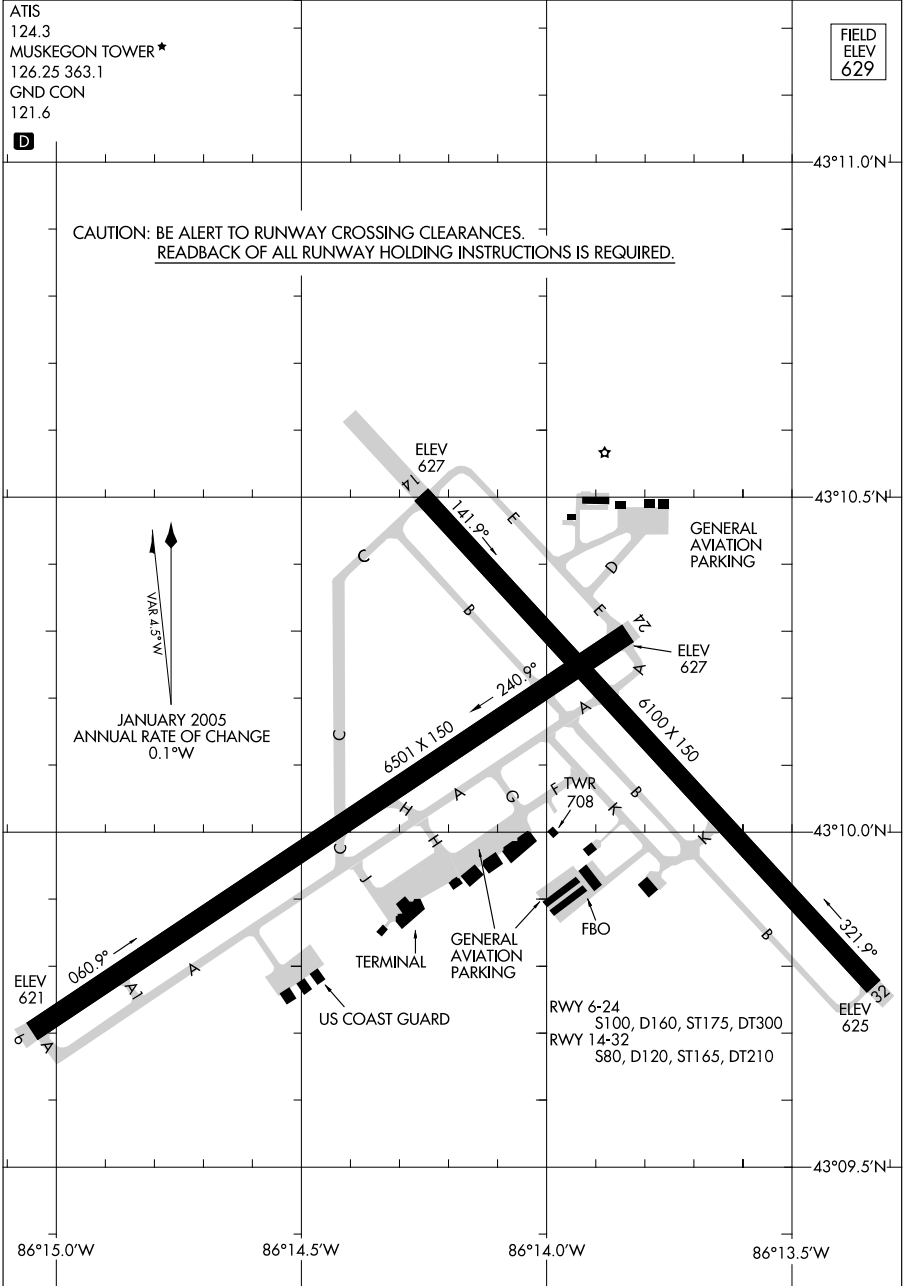
MUNCIE, INDIANA  
MUNCIE/DELAWARE COUNTY RGNL (MIE)

10098

# AIRPORT DIAGRAM

AL-278 (FAA)

MUSKEGON COUNTY (MKG)  
MUSKEGON, MICHIGAN



# AIRPORT DIAGRAM

10098

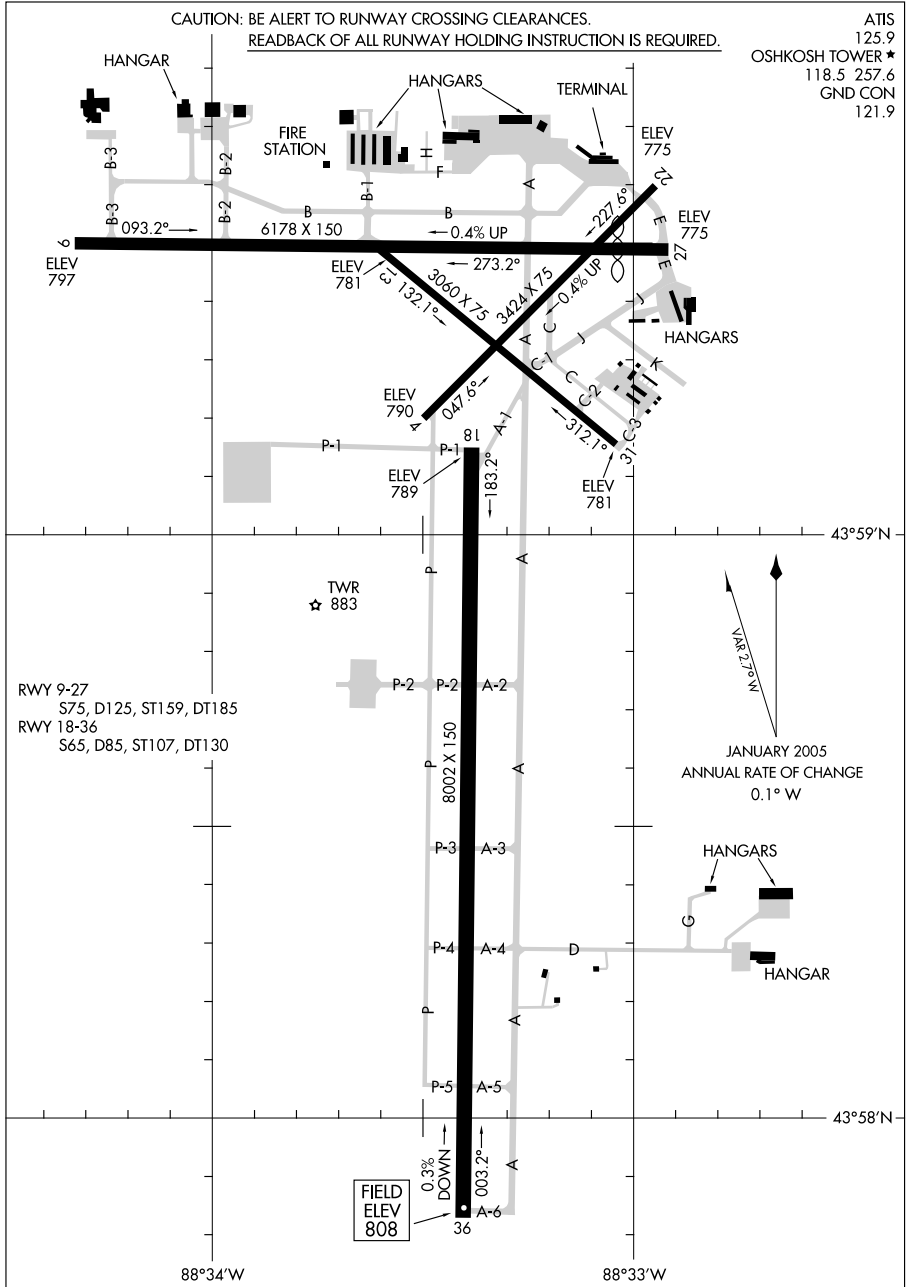
MUSKEGON, MICHIGAN  
MUSKEGON COUNTY (MKG)

09295

# AIRPORT DIAGRAM

AL-730 (FAA)

OSHKOSH/ WITTMAN RGNL (OSH)  
OSHKOSH, WISCONSIN



# AIRPORT DIAGRAM

09295

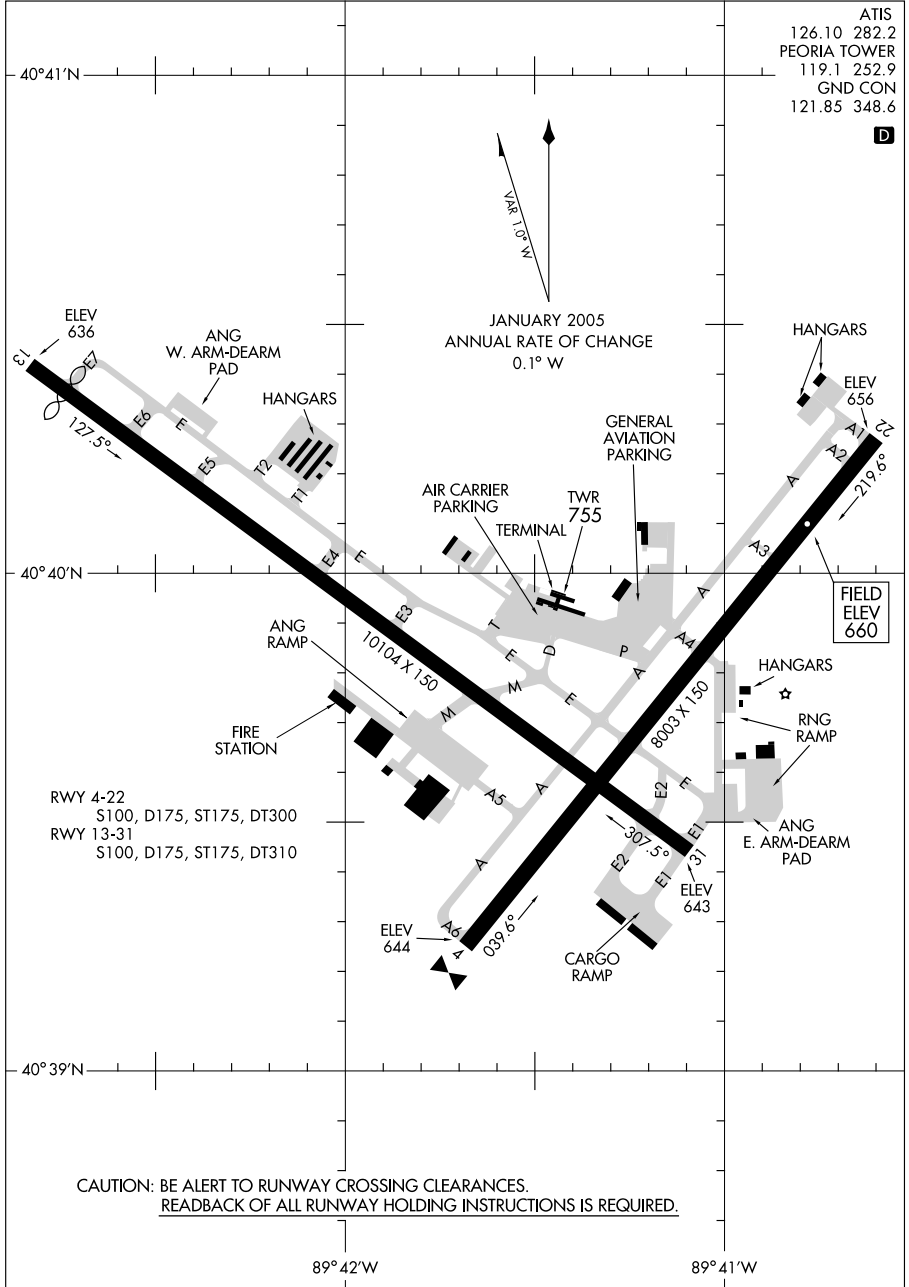
OSHKOSH, WISCONSIN  
OSHKOSH/ WITTMAN RGNL (OSH)



10098

AIRPORT DIAGRAM

PEORIA/ GENERAL DOWNING-PEORIA INTL (PIA)  
AL-597 (FAA)  
PEORIA, ILLINOIS



AIRPORT DIAGRAM

10098

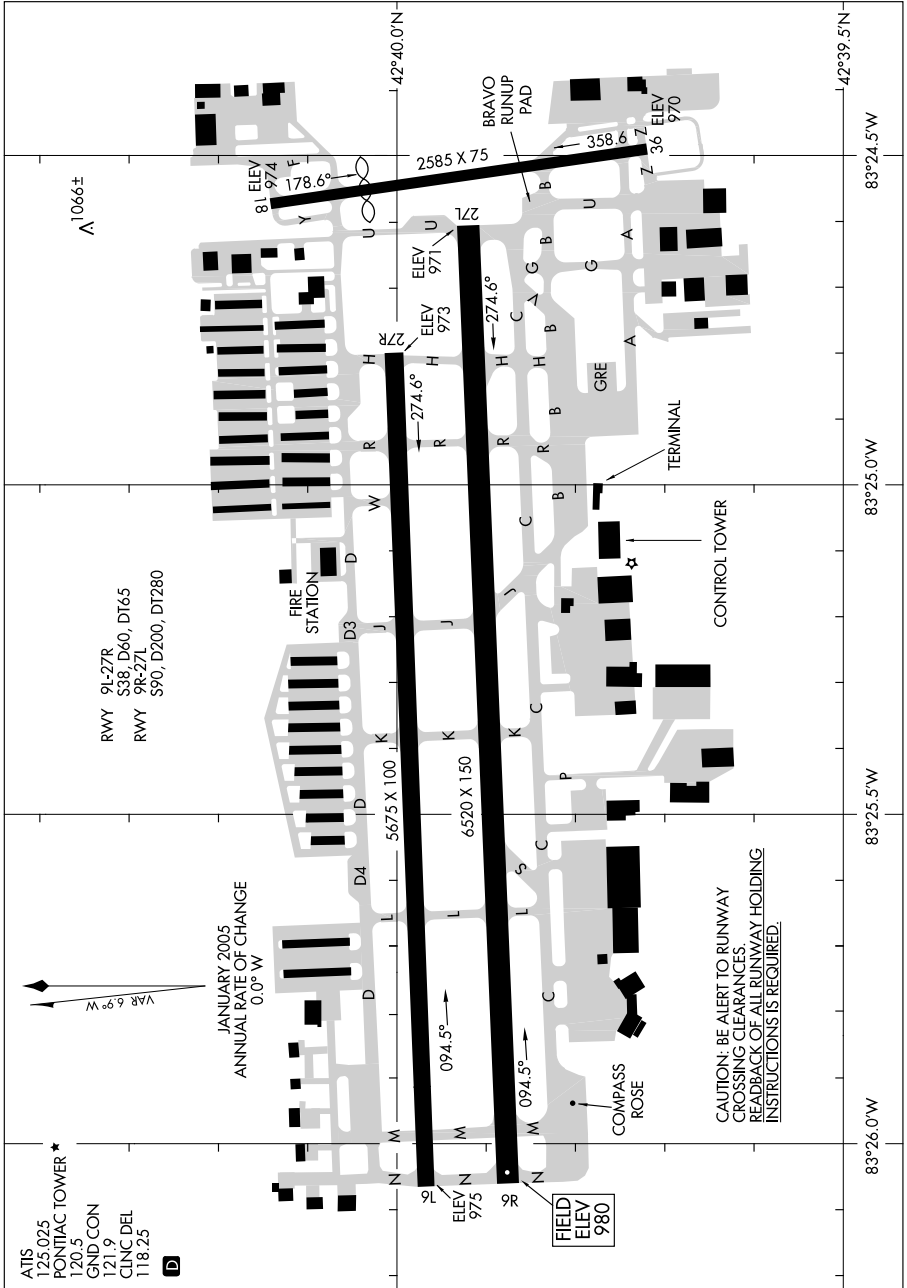
PEORIA, ILLINOIS  
PEORIA/GENERAL DOWNING-PEORIA INTL (PIA)

10042

# AIRPORT DIAGRAM

PONTIAC/OAKLAND COUNTY INTL (PTK)  
PONTIAC, MICHIGAN

AL-5052 (FAA)



# AIRPORT DIAGRAM

10042

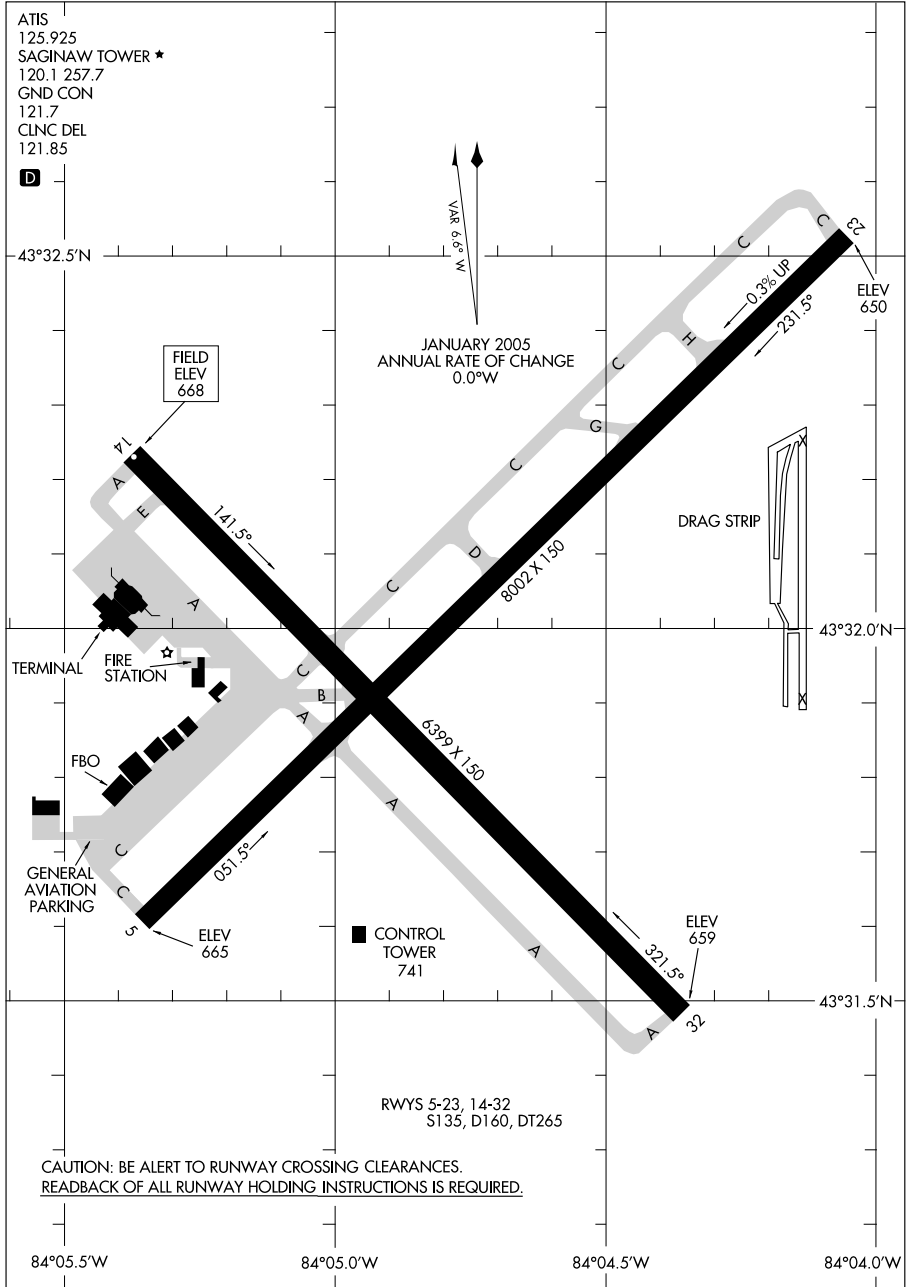
PONTIAC, MICHIGAN  
PONTIAC/OAKLAND COUNTY INTL (PTK)

09351

AIRPORT DIAGRAM

AL-648 (FAA)

SAGINAW / MBS INTL (MBS)  
SAGINAW, MICHIGAN



AIRPORT DIAGRAM

09351

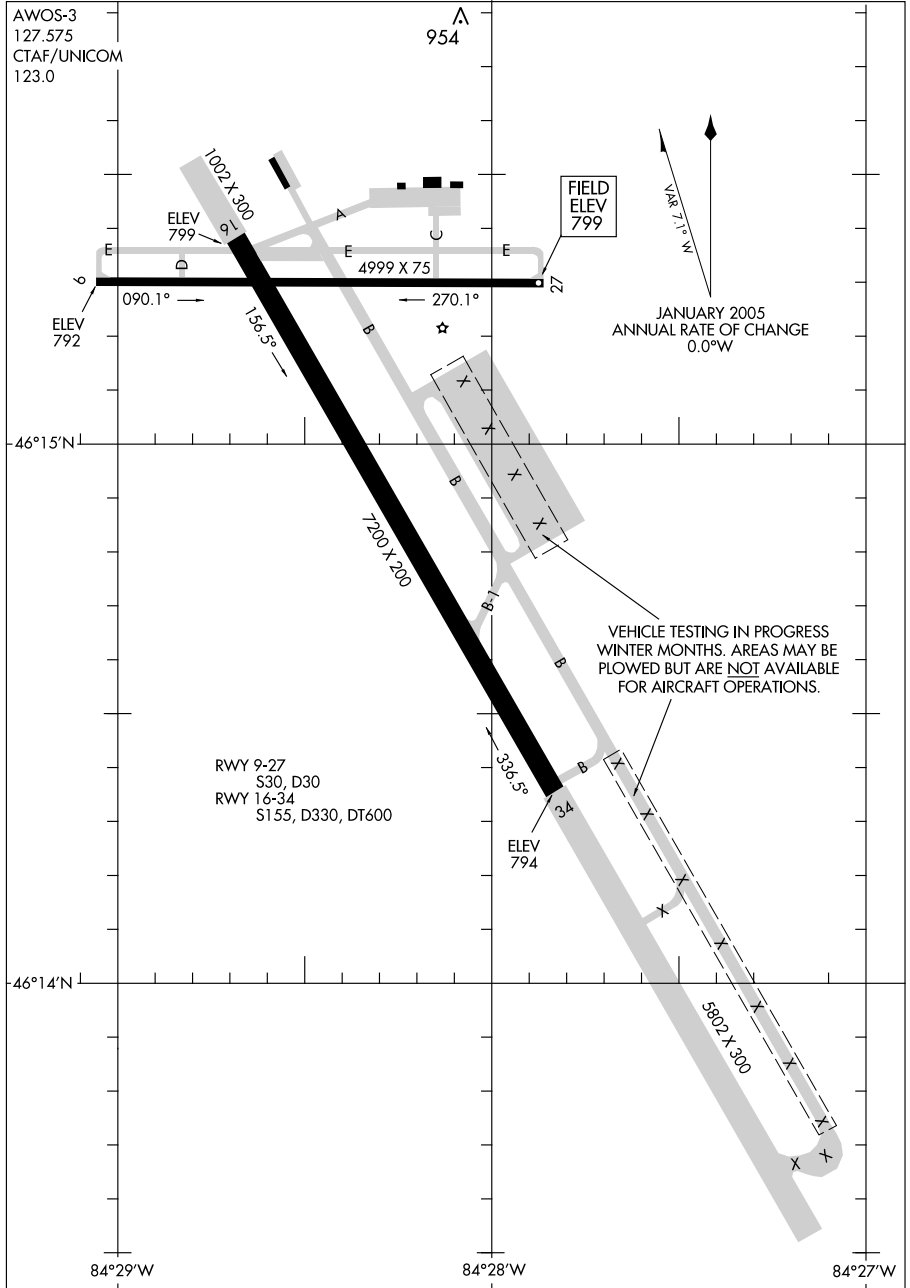
SAGINAW, MICHIGAN  
SAGINAW / MBS INTL (MBS)

09071

# AIRPORT DIAGRAM

SAULT STE MARIE/CHIPPEWA COUNTY INTL (CIU)  
SAULT STE MARIE, MICHIGAN

AL-810 (FAA)



# AIRPORT DIAGRAM

SAULT STE MARIE, MICHIGAN  
SAULT STE MARIE/CHIPPEWA COUNTY INTL (CIU)

09071

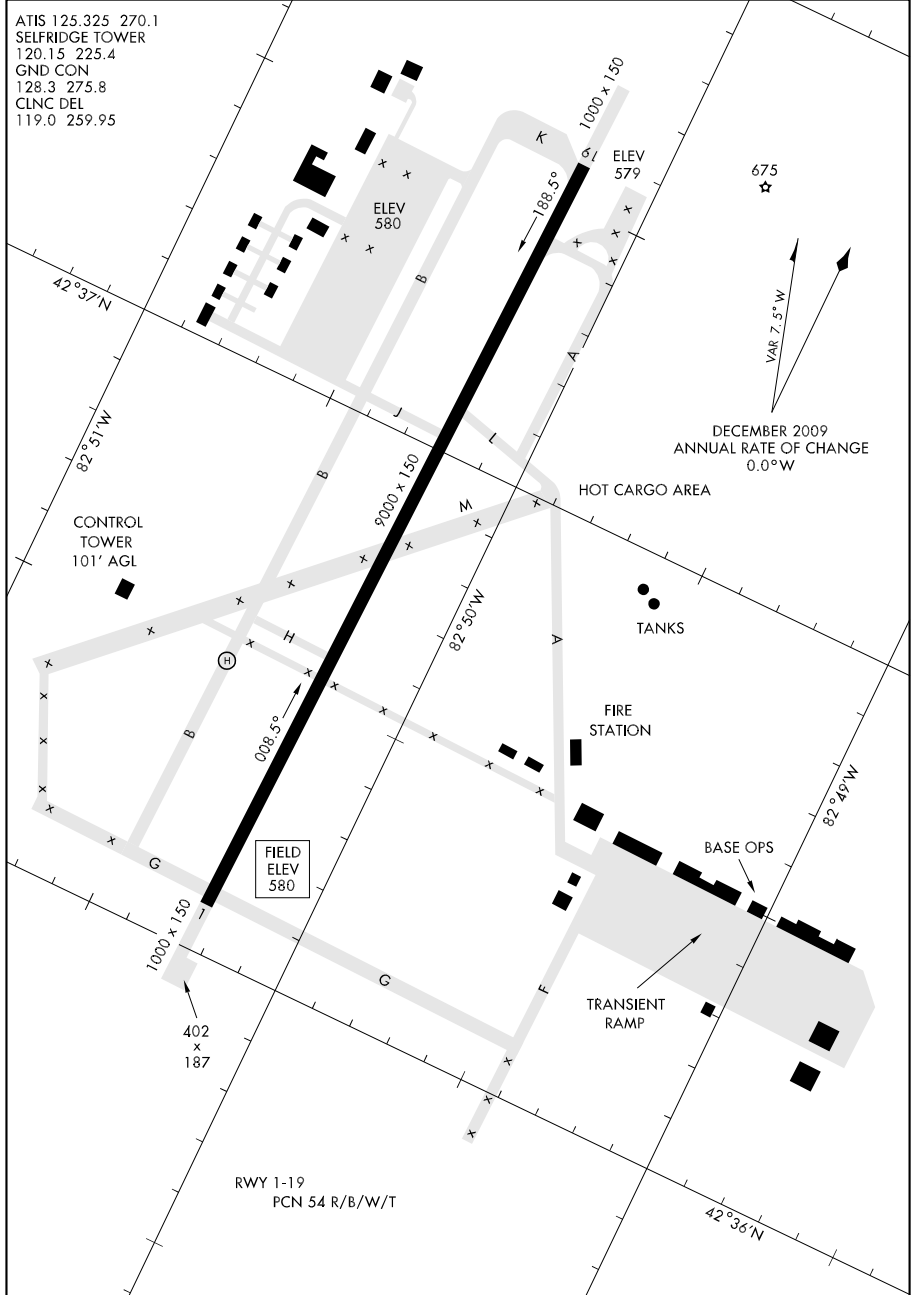
09351

# AIRPORT DIAGRAM

AFD-276 [USAF]

SELFRIDGE ANGB (KMTC)

MT. CLEMENS, MICHIGAN



# AIRPORT DIAGRAM

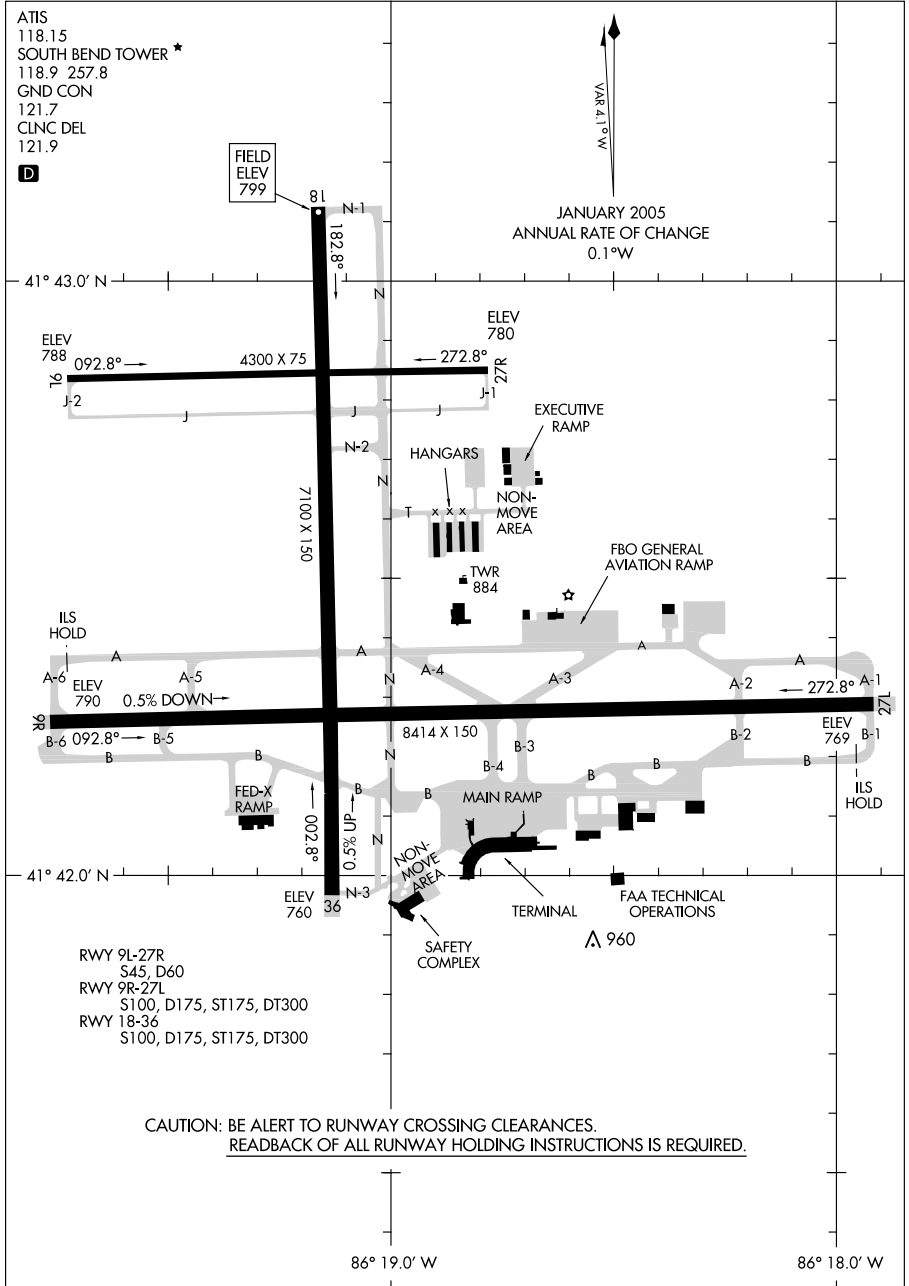
MT. CLEMENS, MICHIGAN  
SELFRIDGE ANGB (KMTC)

10042

# AIRPORT DIAGRAM

AL-399 (FAA)

SOUTH BEND RGNL (SBN)  
SOUTH BEND, INDIANA



# AIRPORT DIAGRAM

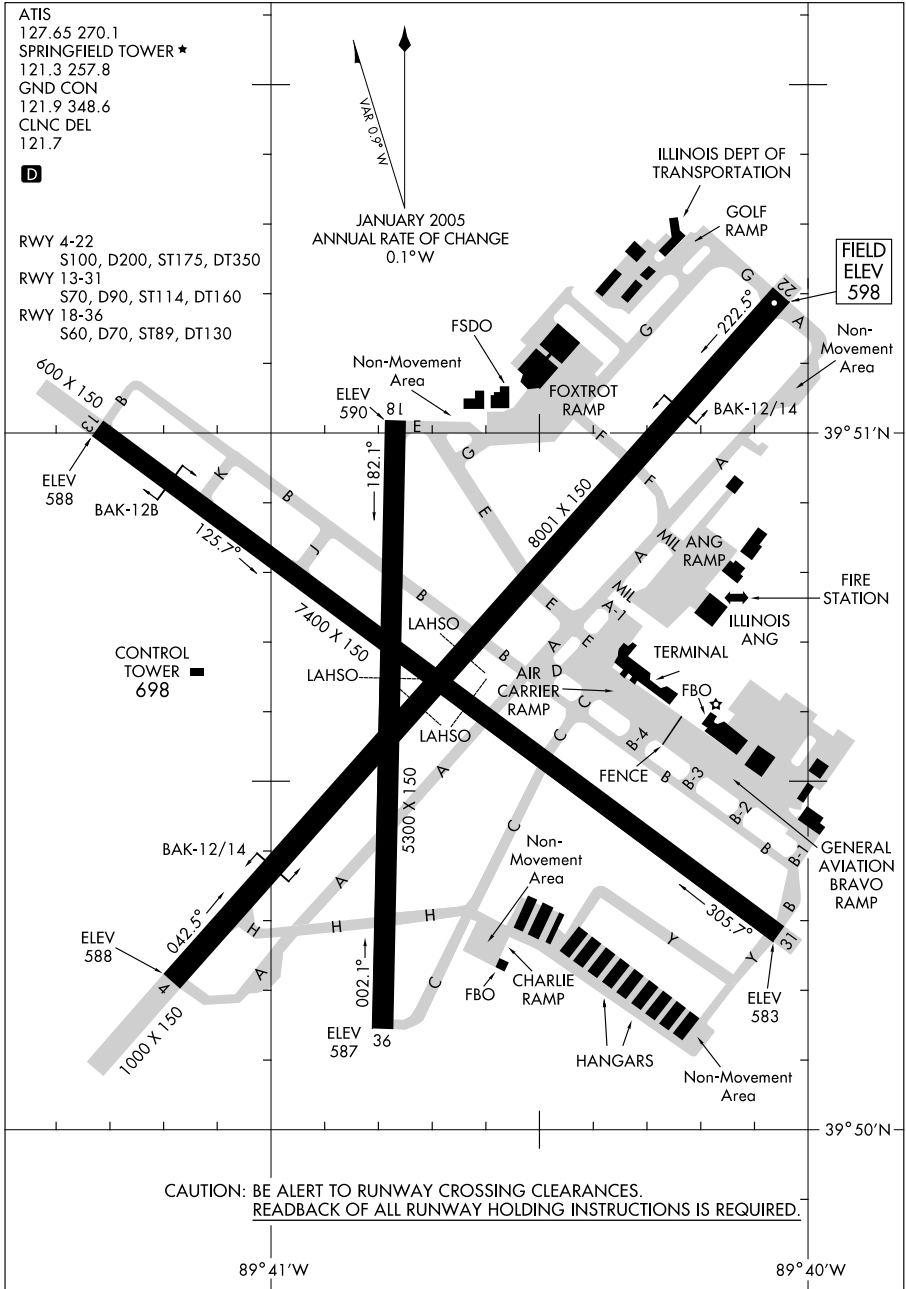
SOUTH BEND, INDIANA  
SOUTH BEND RGNL (SBN)

10042

09351

AIRPORT DIAGRAM

SPRINGFIELD/ABRAHAM LINCOLN CAPITAL (SPI)  
AL-518 (FAA) SPRINGFIELD, ILLINOIS



AIRPORT DIAGRAM

09351

SPRINGFIELD, ILLINOIS  
SPRINGFIELD/ABRAHAM LINCOLN CAPITAL (SPI)

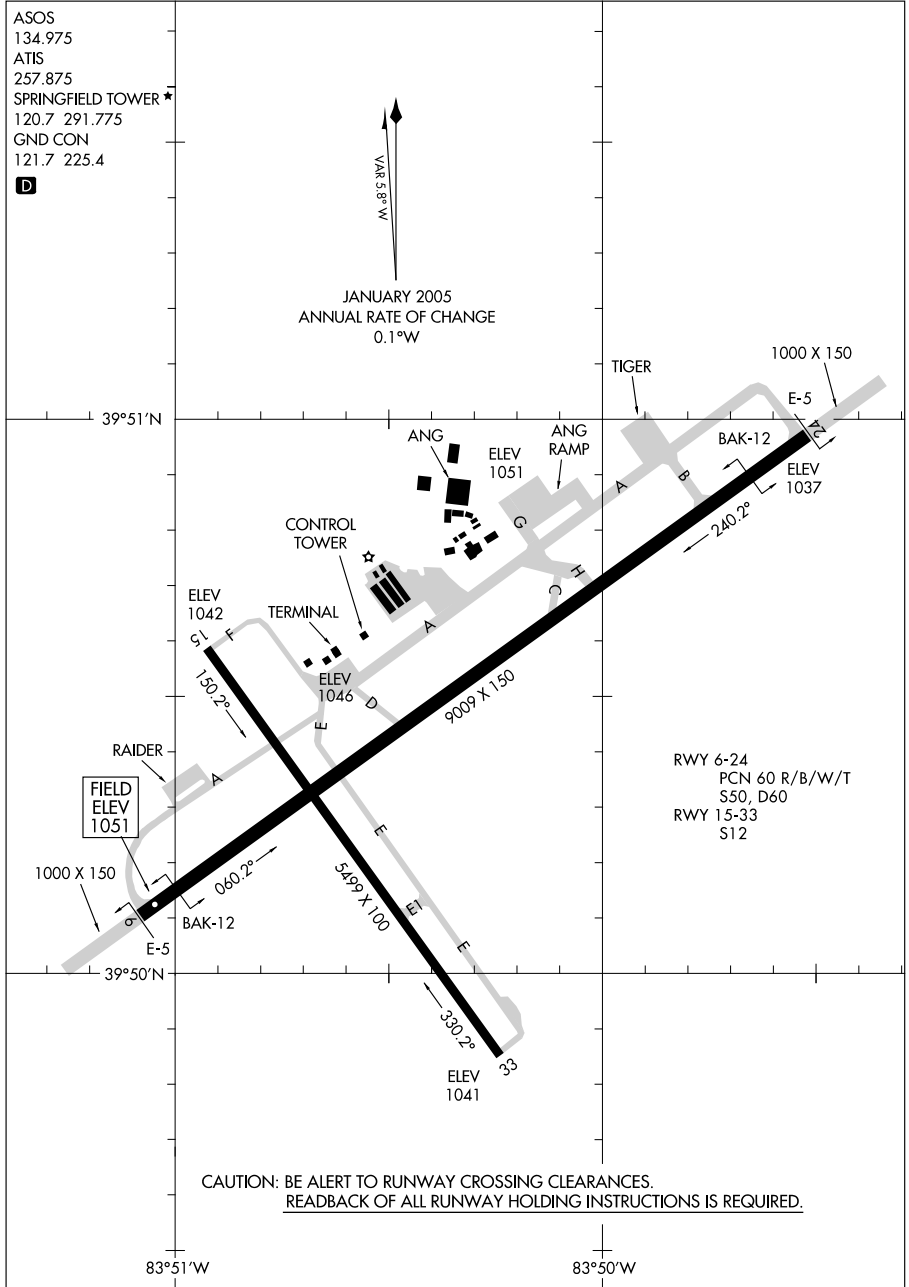
09295

# AIRPORT DIAGRAM

AL-958 (FAA)

SPRINGFIELD-BECKLEY MUNI (SGH)

SPRINGFIELD, OHIO



# AIRPORT DIAGRAM

09295

SPRINGFIELD, OHIO  
SPRINGFIELD-BECKLEY MUNI (SGH)

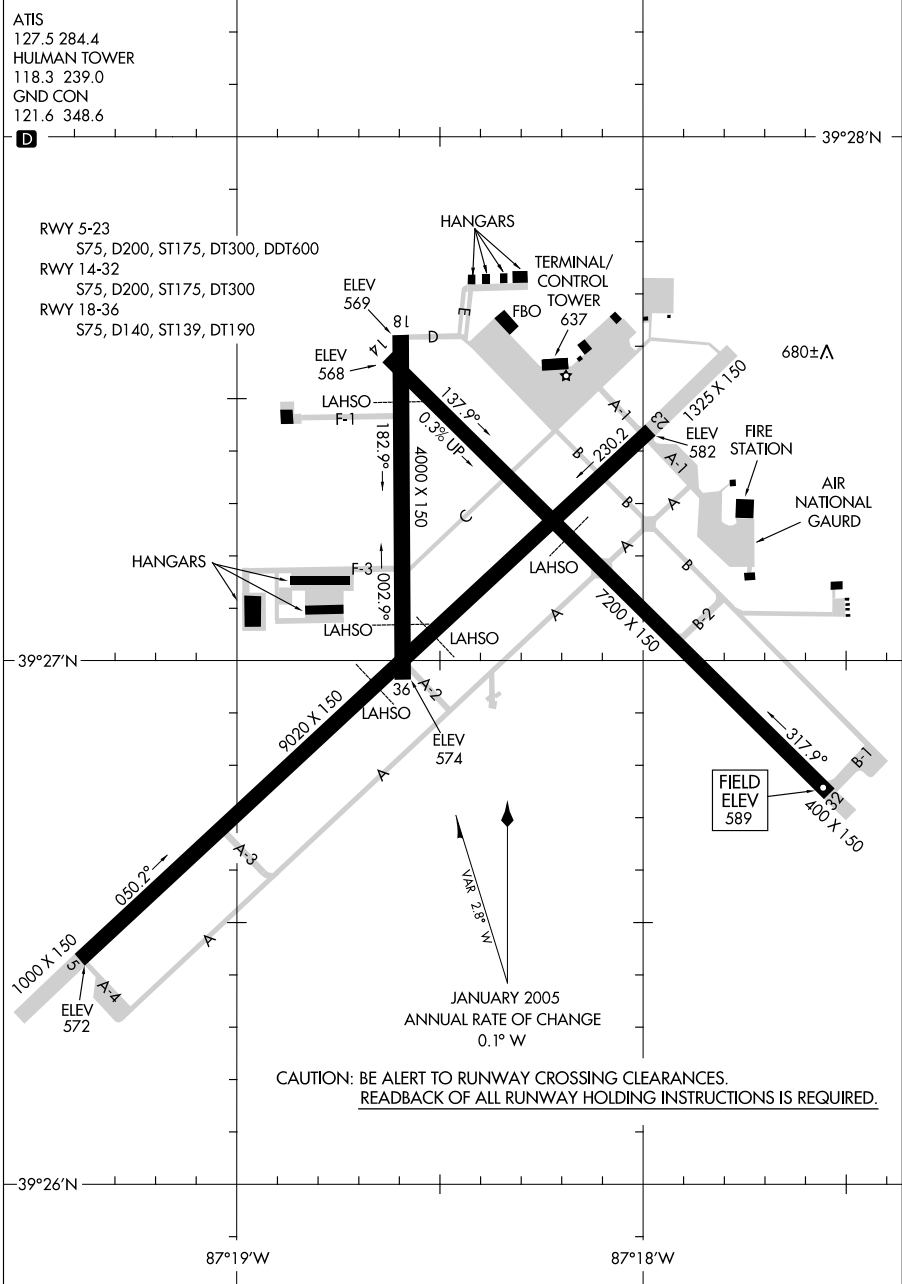


09295

AIRPORT DIAGRAM

AL-608 (FAA)

TERRE HAUTE INTL-HULMAN FIELD (HUF)  
TERRE HAUTE, INDIANA



AIRPORT DIAGRAM

09295

TERRE HAUTE, INDIANA  
TERRE HAUTE INTL-HULMAN FIELD (HUF)

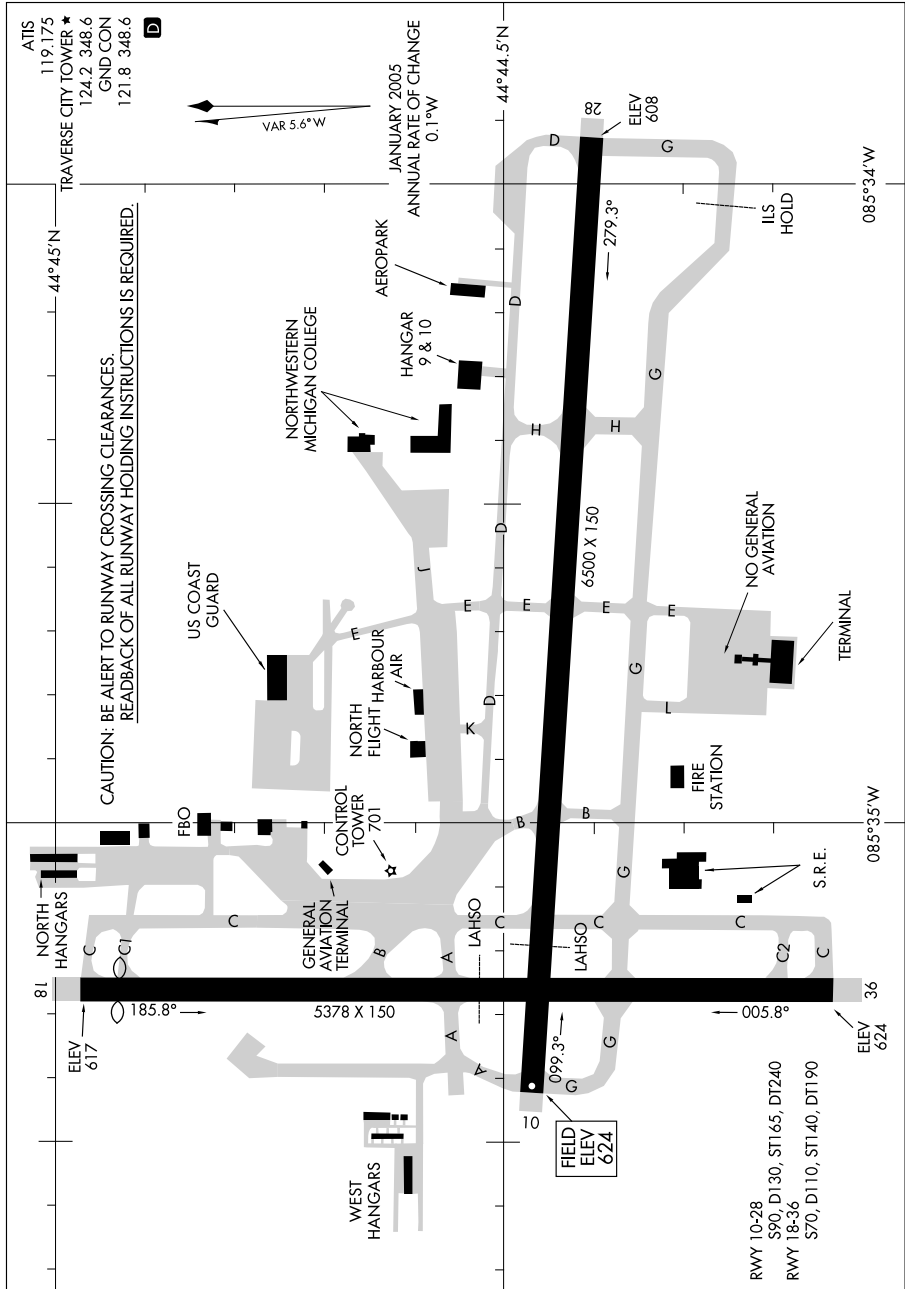


09239

AIRPORT DIAGRAM

AL-425 (FAA)

TRAVERSE CITY / CHERRY CAPITAL (TVC)  
TRAVERSE CITY, MICHIGAN



AIRPORT DIAGRAM

09239

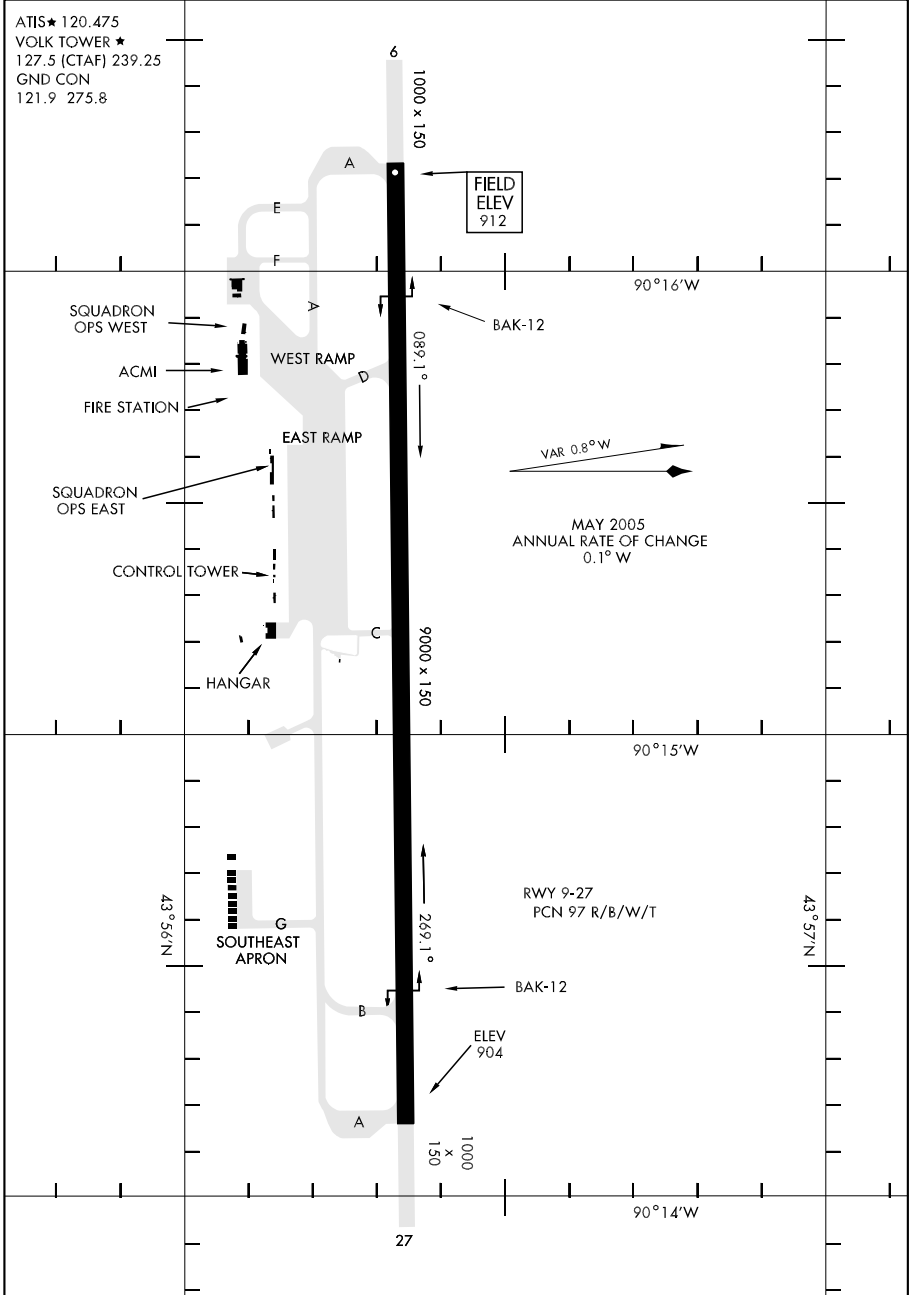
TRAVERSE CITY, MICHIGAN  
TRAVERSE CITY / CHERRY CAPITAL (TVC)

06271

# AIRPORT DIAGRAM

AFD-714 [USAF]

VOLK FIELD (VOK)  
CAMP DOUGLAS, WISCONSIN



# AIRPORT DIAGRAM

WGS DATUM

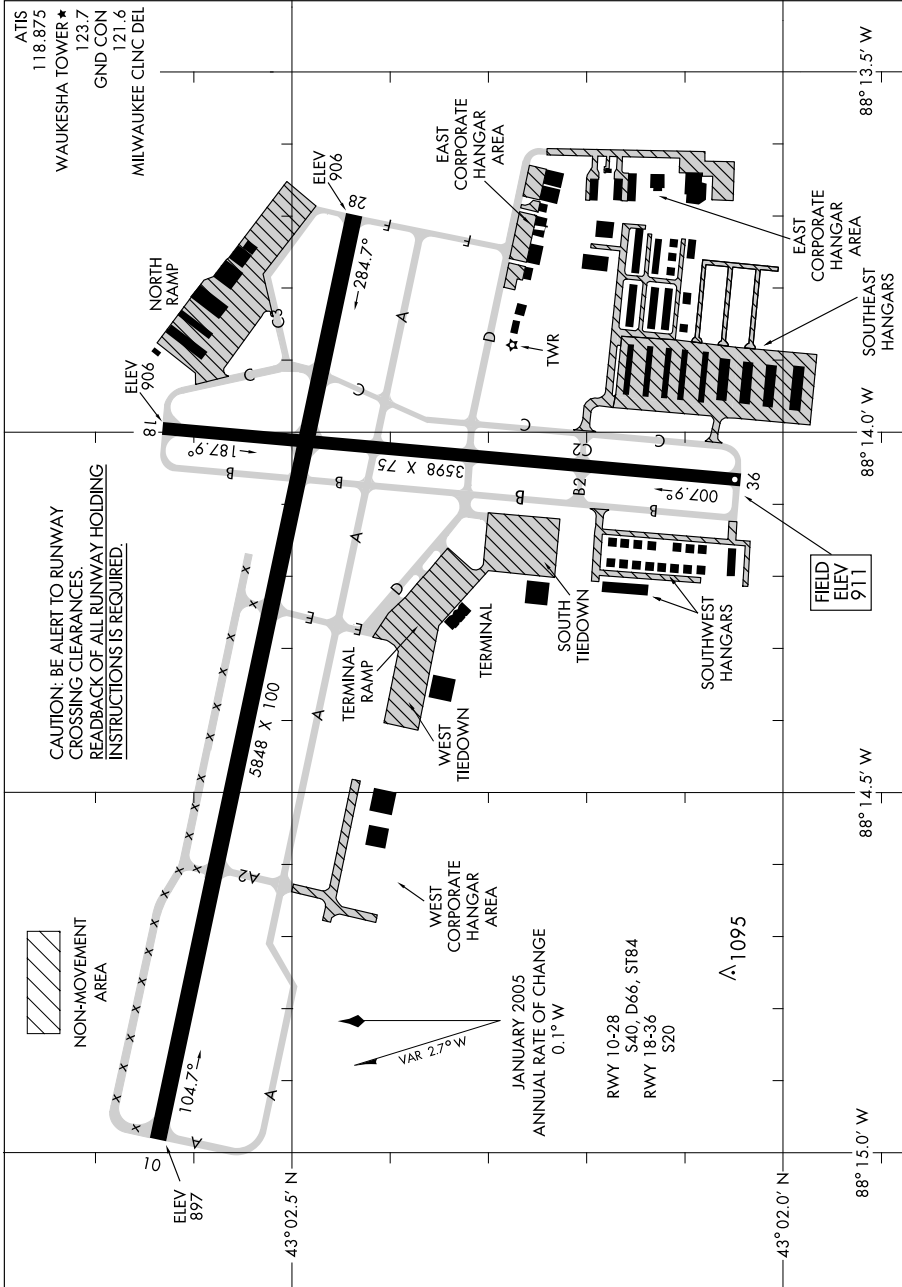
CAMP DOUGLAS, WISCONSIN  
VOLK FIELD (VOK)

10098

# AIRPORT DIAGRAM

AL-5078 (FAA)

WAUKESHA COUNTY (UES)  
WAUKESHA, WISCONSIN



# AIRPORT DIAGRAM

10098

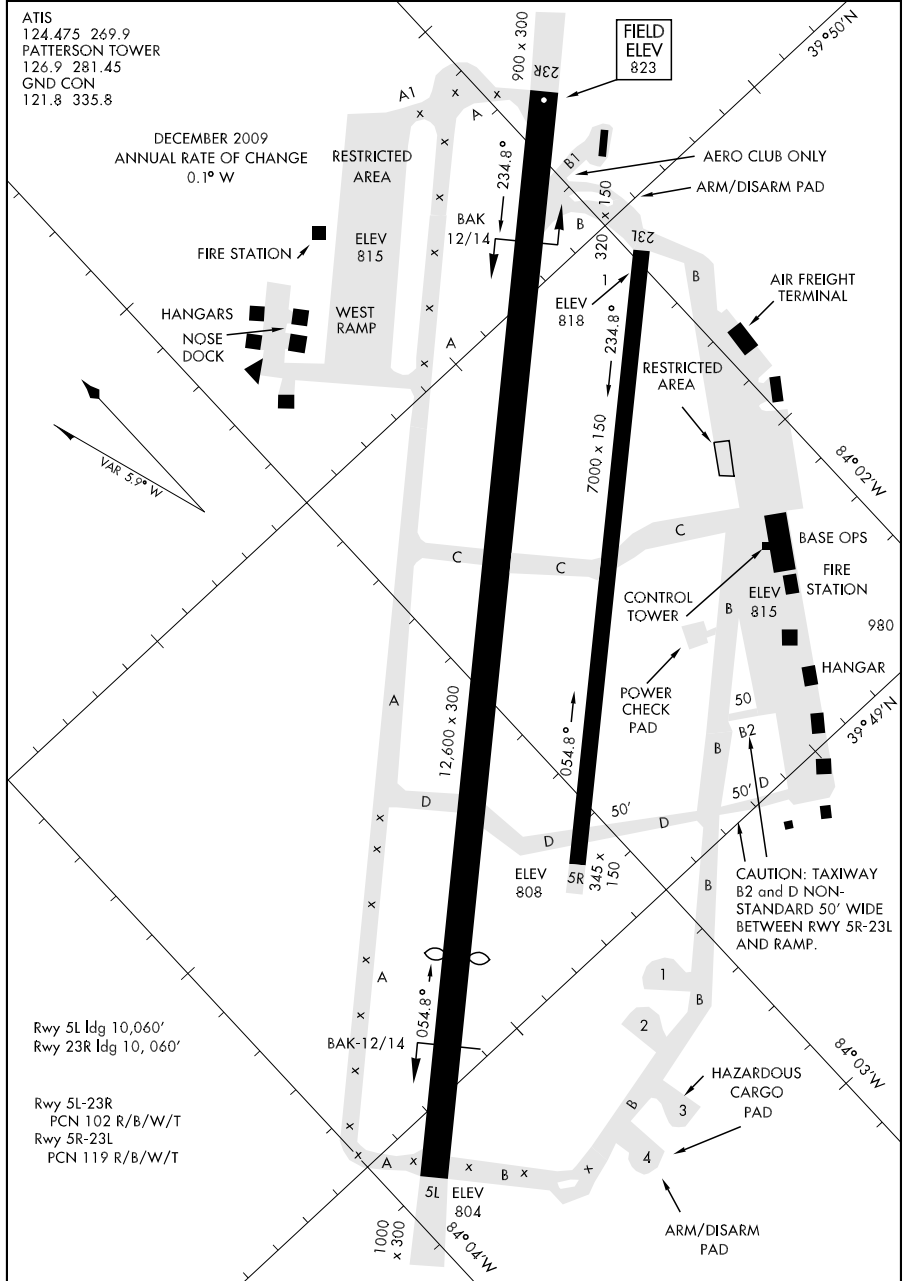
WAUKESHA, WISCONSIN  
WAUKESHA COUNTY (UES)

09351

# AIRPORT DIAGRAM

WRIGHT-PATTERSON AFB (KFFO)

DAYTON, OHIO



# AIRPORT DIAGRAM

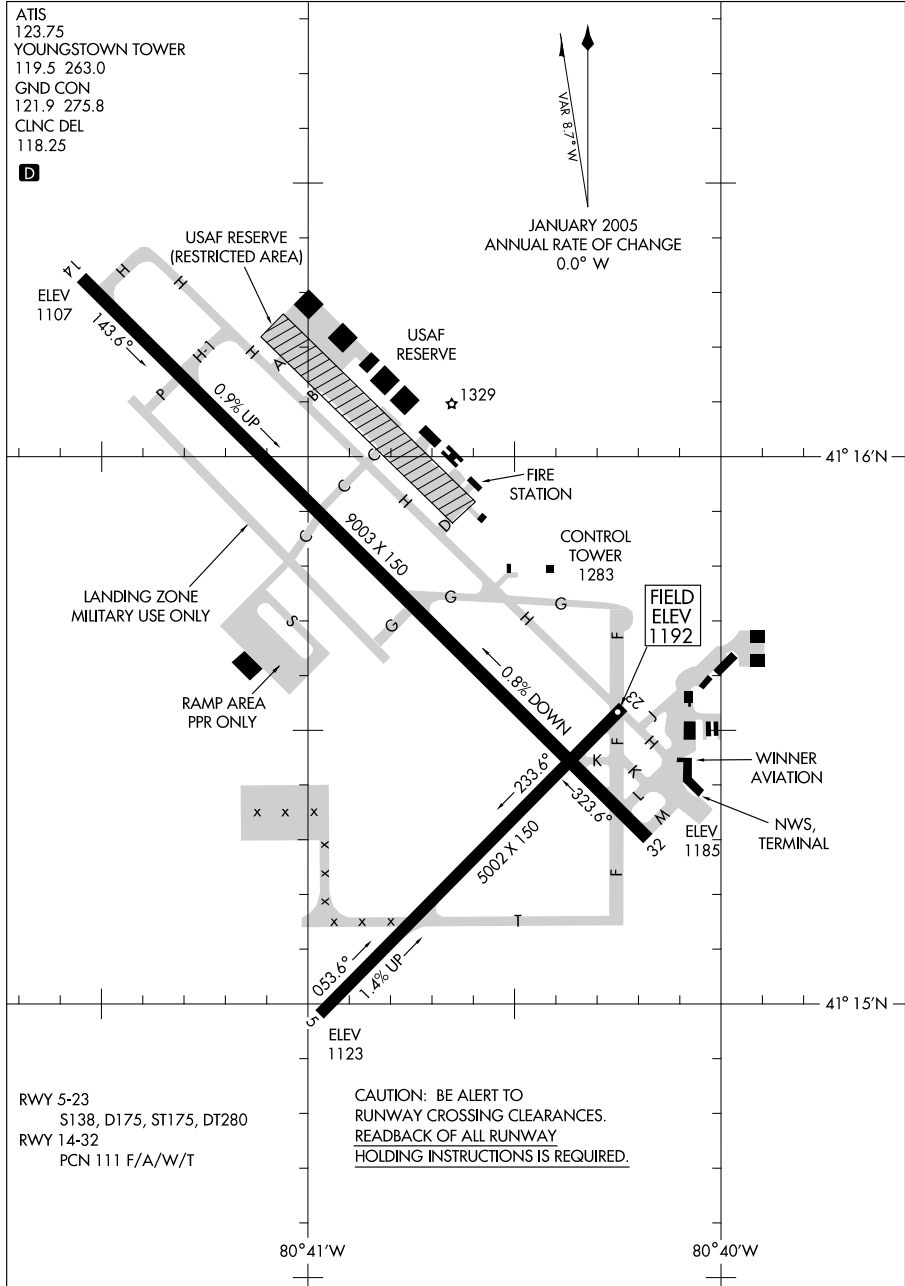
DAYTON, OHIO  
WRIGHT-PATTERSON AFB (KFFO)

09295

AIRPORT DIAGRAM

AL-466 (FAA)

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



ATIS  
 123.75  
 YOUNGSTOWN TOWER  
 119.5 263.0  
 GND CON  
 121.9 275.8  
 CLNC DEL  
 118.25



RWY 5-23  
 S138, D175, ST175, DT280  
 RWY 14-32  
 PCN 111 F/A/W/T

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

AIRPORT DIAGRAM

09295

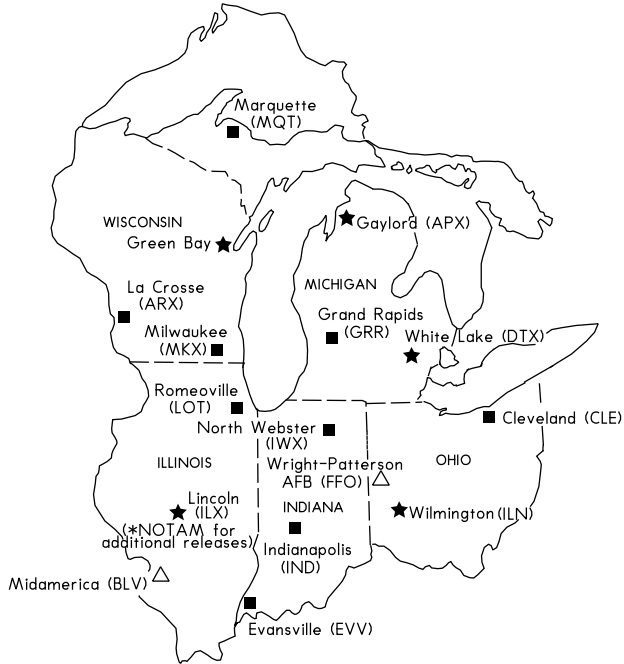
YOUNGSTOWN-WARREN, OHIO  
YOUNGSTOWN-WARREN RGNL (YNG)

**INTENTIONALLY  
LEFT  
BLANK**



**INTENTIONALLY  
LEFT  
BLANK**

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



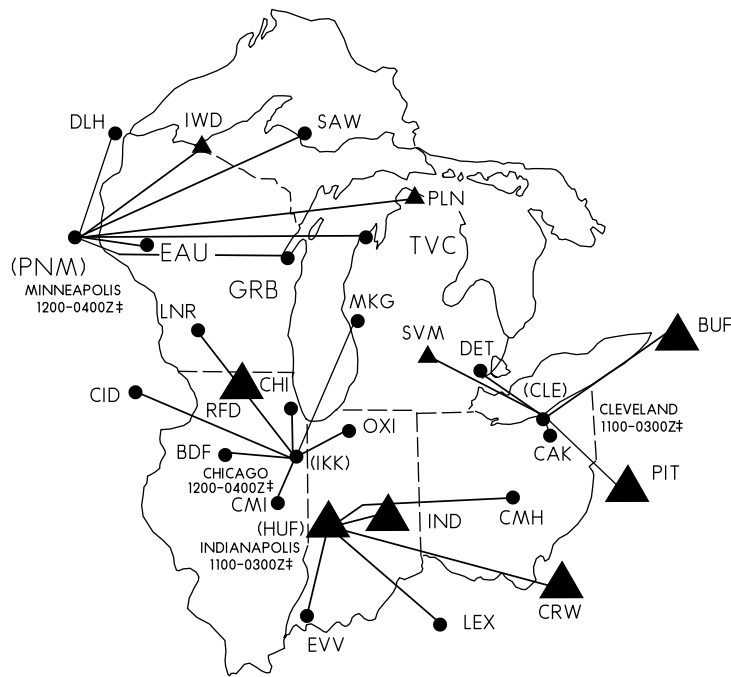
LEGEND

- △ 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.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services



CHICAGO EFAS HIGH ALTITUDE FREQUENCY 134.875  
 CLEVELAND EFAS HIGH ALTITUDE FREQUENCY 135.425  
 INDIANAPOLIS EFAS HIGH ALTITUDE FREQUENCY 134.825  
 MINNEAPOLIS EFAS HIGH ALTITUDE FREQUENCY 135.675

- LOW ALTITUDE COMMUNICATIONS OUTLET (122.0)
- ▲ HIGH ALTITUDE COMMUNICATIONS OUTLET
- ▲ BOTH LOW AND HIGH ALTITUDE COMMUNICATIONS OUTLET