Federal Aviation Administration

TM

U.S. Terminal Procedures Publication

East Central (EC) Vol 2 of 3

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22 APR 2021

Consult the Change Notice (CN) effective 25 MAR 2021 for revised Instrument Procedure Charts for this volume

Consult NOTAMs for latest information

Consult/Subscribe to FAA Safety Alerts and Charting Notices at:

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CORRECTIONS, COMMENTS AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:
FAA, Aeronautical Information Services
1305 East-West Highway
SSMC 4, Room 3424
Silver Spring, MD 20910
Telephone: 1-800-638-8972
https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/

For inquiries regarding military charts, please contact aerohelp@nga.mil

FOR PROCUREMENT:
For digital products, visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/

For a list of approved FAA Print Providers, visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/

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

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

INOP COMPONENTS 19339

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE
(For Civil Use Only)

Straight-in and Sidestep landing minimums published on instrument approach procedure charts are based on full operation of all components and visual aids (see exception below for ALSF 1 & 2) associated with the particular approach chart being used. Higher minimums are required with inoperative components or visual aids as indicated below. If more than one component is inoperative, each minimum is raised to the highest minimum required by any single component that is inoperative. ILS glideslope inoperative minimums are published on the instrument approach charts as localizer minimums. This table applies to approach categories A thru D and is to be used unless amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. Category E inoperative notes will be specified when published on civil charts. The inoperative table does not apply to Circling minimums. See legend page for description of components indicated below.

Full Operation Exception: For ALSF 1 & 2 operated as SSALR, or when the sequenced flashing lights are inoperative, there is no effect on visibility for ILS lines of minima.

(1) ILS, PAR, LPV, GLS minima

Inoperative Component or Visual Aid	Increase Visibility
All ALS types (except ODALS)	¼ mile

(2) ILS, LPV, GLS with visibility minima of RVR 1800†/2000*/2200*

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	To RVR 4000† To RVR 4500*
TDZL or RCLS	To RVR 2400#
RVR	To ½ mile

#For ILS, LPV, GLS procedures with a 200 foot HAT, RVR 1800 authorized with use of FD or AP or HUD to DA.

(3) All Approach Types and all lines of minima other than (1) & (2) above

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile
MALSF, MALS, SSALF, SSALS, SALSF, SALS	¼ mile

(4) Sidestep minima (CAT C-D)

Inoperative Component or Visual Aid to Sidestep Runway	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile

(5) All Approach Types, All lines of minima

Inoperative Component or Visual Aid	Increase Visibility
ODALS (CAT A-B)	¼ mile
ODALS (CAT C-D)	⅛ mile

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TERMS/LANDING MINIMA DATA 20142

IFR LANDING MINIMA

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

LANDING MINIMA FORMAT

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

Visibility (RVR 100's of feet) — DA — Aircraft Approach Category — HAT

CATEGORY	A	B	C	D
S-ILS 27	1352/24		200 (200-½)	
S-LOC 27	1440/24	288	(300-½)	1440/50 288 (300-1)
CIRCLING	1540-1 361 (400-1)	1640-1 461 (500-1)	1640-1½ 461 (500-1½)	1740-2 561 (600-2)

Straight-in ILS to Runway 27

Straight-in with Glide Slope Inoperative or not used to Runway 27

All **weather** minimums in parentheses not applicable to Civil Pilots. Military Pilots refer to appropriate regulations.

MDA — HAA — Visibility in Statute Miles

COPTER MINIMA ONLY

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

Copter Approach Direction — Height of MDA/DA Above Landing Area (HAL) — No circling minimums are provided

NOTE: The W symbol indicates outages of the WAAS vertical guidance may occur daily at this location due to initial system limitations. WAAS NOTAMS for vertical outages are not provided for this approach. Use LNAV minima for flight planning at these locations, whether as a destination or alternate. For flight operations at these locations, when the WAAS avionics indicate that LNAV/VNAV or LPV service is available, then vertical guidance may be used to complete the approach using the displayed level of service. Should an outage occur during the procedure, reversion to LNAV minima may be required. As the WAAS coverage is expanded, the W will be removed.

RNAV minimums are dependent on navigation equipment capability, as stated in the applicable AFM, AFMS, or other FAA approved document. See AIM paragraph 5-4-5, AC 90-105 and AC 90-107 for detailed requirements for each line of minima.

COLD TEMPERATURE AIRPORTS

NOTE: A ❄-12°C symbol indicates a cold temperature altitude correction is required at this airport when reported temperature is at or below the published temperature. See the following Cold Temperature Error Table to make manual corrections. Advise ATC with altitude correction. Advising ATC with altitude corrections is not required in the final segment. See Aeronautical Information Manual (AIM), Chapter 7, for guidance and additional information. For a complete list, see the "Cold Temperature Airports" link under the Additional Resources heading at the bottom of the following page: http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/search/

COLD TEMPERATURE ERROR TABLE

HEIGHT ABOVE AIRPORT IN FEET

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

AIRCRAFT APPROACH CATEGORIES

Aircraft approach category indicates a grouping of aircraft based on a speed of VREF, if specified, or if VREF not specified, 1.3 VSO at the maximum certificated landing weight. VREF, VSO, and the maximum certificated landing weight are those values as established for the aircraft by the certification authority of the country of registry. Helicopters are Category A aircraft. An aircraft shall fit in only one category. When necessary to operate the aircraft at an airspeed in excess of the maximum airspeed of its certified aircraft approach category, pilots should use the applicable higher category minima. For additional options and to ensure the aircraft remains within protected airspace, consult the AIM. See following category limits:

MANEUVERING TABLE

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

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CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

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

STANDARD CIRCLING APPROACH MANEUVERING RADIUS

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

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

C EXPANDED CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

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

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

Comparable Values of RVR and Visibility

The following table shall be used for converting RVR to ground or flight visibility. For converting RVR values that fall between listed values, use the next higher RVR value; do not interpolate. For example, when converting 4800 RVR, use 5000 RVR with the resultant visibility of 1 mile.

RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)
1600	¼	2400	½	3500	⅝	5500	1
1800	½	2600	½	4000	¾	6000	1¼
2000	½	3000	⅝	4500	⅞		
2200	½	3200	⅝	5000	1		

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	**195**/16	100	(100-¼)				
	28	2.5°/48/1068	ABCDE	**187**/16	100	(100-¼)				
ASR	10		ABC	**560**/40	463	(500-¾)	DE	**560**/50	463	(500-1)
	28		AB	**600**/50	513	(600-1)	CDE	**600**/60	513	(600-1¼)
CIR	10		AB	**560-**1¼	463	(500-1¼)	CDE	**560-**1½	463	(500-1½)
	28		AB	**600-**1¼	503	(600-1¼)	CDE	**600-**1½	503	(600-1½)

Visibility (RVR 100's of feet)

Visibility in Statute Miles

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

Radar Minima:

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

NOTE: Military RADAR MINIMA may be shown with communications symbology that indicates emergency frequency monitoring capability by the radar facility as follows: (E) VHF and UHF emergency frequencies monitored
(V) VHF emergency frequency (121.5) monitored
(U) UHF emergency frequency (243.0) monitored

Additionally, unmonitored frequencies which are available on request from the controlling agency may be annotated with an "x".

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

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

T Airport is published in the Takeoff Minimums, (Obstacle) Departure Procedures, and Diverse Vector Area (Radar Vectors) tabulation.

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GENERAL INFORMATION

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

The FAA uses an internal numbering system on all charts in the TPP. This Approach and Landing (AL) number is located on the top center margin of the chart followed by the organization responsible for the procedure in parentheses, e.g., AL-18 (FAA), AL-227 (USAF).

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

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

FAA Procedure Amendment Number → Orig 31DEC09 ← Procedure Amendment Effective Date

FAA Procedure Amendment Number → Amdt 2B 12MAR09 ← Procedure Amendment Effective Date

The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc. On Departure Procedures and Standard Terminal Arrivals, procedural revisions to the current chart are indicated by an upnumber to the procedure title with the procedure amendment effective date following. On Radar Minima, Takeoff Minimums and (Obstacle) Departure Procedures and Diverse Vector Areas, the FAA Procedure Amendment Number, Procedure Effective Date, and the Julian Date of Last Revision will be shown on the same line, e.g., AMDT 2 10DEC15 (15344).

MISCELLANEOUS

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

For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA.

Distances are in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway dimensions are in feet. Elevations are in feet, Mean Sea Level (MSL). Ceilings are in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

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

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STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

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

PROCEDURE PBN/EQUIPMENT REQUIREMENTS

Users will begin to see Performance-Based Navigation (PBN) Requirements and Equipment Requirements on Instrument Approach Procedures (IAPs), RNAV STARS and RNAV DPs prominently displayed in separate, standardized notes boxes. For procedures with PBN elements, the PBN box will contain the procedure's navigation specification(s); and, if required: specific sensors or infrastructure needed for the navigation solution; any additional or advanced functional requirements; the minimum Required Navigation Performance (RNP) value and any amplifying remarks. Items listed in this PBN box are REQUIRED for the procedure's PBN elements. The Equipment Requirements Box will list non-PBN requirements. On charts with both PBN elements and equipment requirements, the PBN requirements box will be listed first. The publication of these notes will continue incrementally until all charts have been amended to comply with the new standard.

IAP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	From WINRZ, LIBGE: RNAV-1 GPS, RNAV-1GPS from MAP to YARKU.
Equipment Requirements Box →	DME required for LOC only.
Standard Procedure Notes Box →	T Circling to Rwy 25 NA at night. #For inop MALSR increase S-ILS 16R all cats visibility to 2½ SM.

RNAV STAR and DP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	RNAV 1 - DME/DME/IRU or GPS
Equipment Requirements Box →	RADAR required

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., A1, V, ✿
2. Approach lighting systems that do not bear a system identification are indicated with a negative "L" beside the name.

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

To activate lights, use frequency indicated in the communication section of the chart with a L or the appropriate lighting system identification e.g., UNICOM 122.8 L, A1, V

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

ABBREVIATIONS

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

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ABBREVIATIONS

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

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LEGEND 20086

INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES

Procedure Track

Missed Approach

Visual Flight Path

165°
345°
Procedure Turn
(Type degree and point of turn optional)

3100 NoPT 5.6 NM to GS Intcpt
045°
(14.2 to LOM)
Minimum Route Altitude
2000
155°
Feeder Route
(15.1)
Mileage

HOLDING PATTERNS

Missed Approach
090°
270°

Hold-in-lieu of Procedure Turn
090°
1 min
270°

090°
(IAS)
270°
4 NM

HOLD 8000
Arrival
090°
270°

Holding pattern with max. restricted airspeed:
(175K) applies to all altitudes.
(210K) applies to altitudes above 6000′ to and including 14000′.
Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg.
Timing or distance limits for Hold-in-lieu of Procedure Turn Holding Patterns will be shown.
DME fixes may be shown.

FIXES/ATC REPORTING REQUIREMENTS

Reporting Point
▲ Name (Compulsory)
△ Name (Non-Compulsory)

Intersection

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

MAP WP (Flyover)

Computer Navigation Fix (CNF) - No ATC Function
x (NAME) ("x" omitted when it conflicts with runway pattern)

15 DME Distance From Facility

AUSTN INT
ARC/DME/RNAV Fix

R-198 → Radial line and value

LR-198 → Lead Radial

LB-198 → Lead Bearing

ALTITUDES

5500 Mandatory Altitude

2500 Minimum Altitude

4300 Maximum Altitude

3000 Recommended Altitude

5000 Mandatory Block
3000 Altitude

INDICATED AIRSPEED

175K	120K	250K	180K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed	Recommended Airspeed

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

Compulsory:

VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

Non-Compulsory:

VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

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

Marker Beacon

Marker beacons that are not specifically part of the procedure.

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

SDF Course

LOC/DME

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

Primary Navaid with Coordinate Values

LIMA
114.5 LIM
Chan 92
S12°00.80′
W77°07.00′

Secondary Navaid

LMM
LIMA
248 NT

SCOTT
Chan 59
SKE
(112.2)

VHF Paired Frequency

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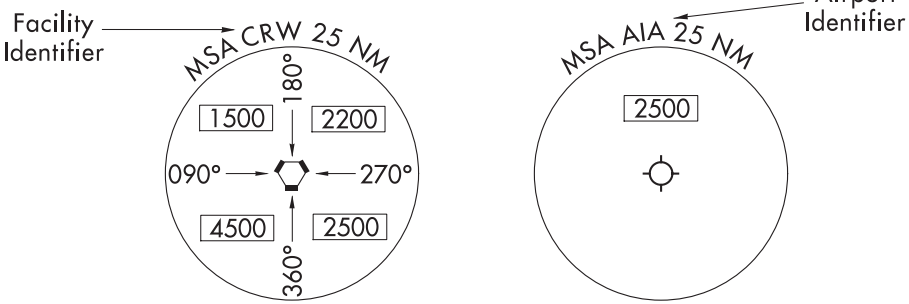
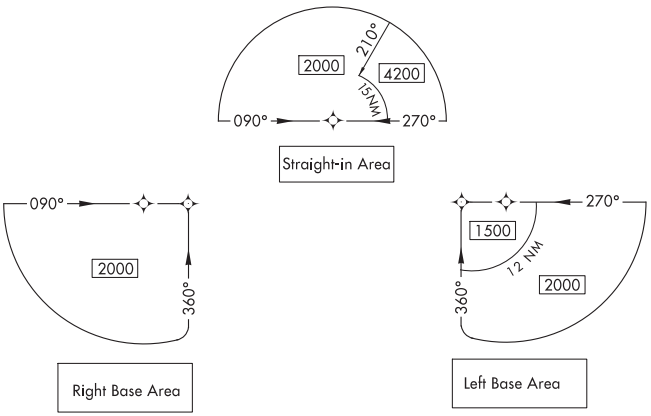
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)



(arrows on distance circle identify sectors)

TERMINAL ARRIVAL AREA (TAA)



MISCELLANEOUS

VOR Changeover Point

RWY 15 S12° 00.52′ W77° 06.91′ — End of Rwy Coordinates (DOD only)

Distance not to scale

International Boundary

Air Defense Identification Zone

SPECIAL USE AIRSPACE

R-352

R-Restricted
P-Prohibited
W-Warning
A-Alert

AIRPORTS

Primary and Secondary (named in planview)

Civil

Seaplane Base

Heliport

OBSTACLES

Spot Elevation

Obstacle

Highest Obstacle

Highest Spot Elevation

Group of Obstacles

Doubtful accuracy

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LEGEND 20198

INSTRUMENT APPROACH PROCEDURES (CHARTS)

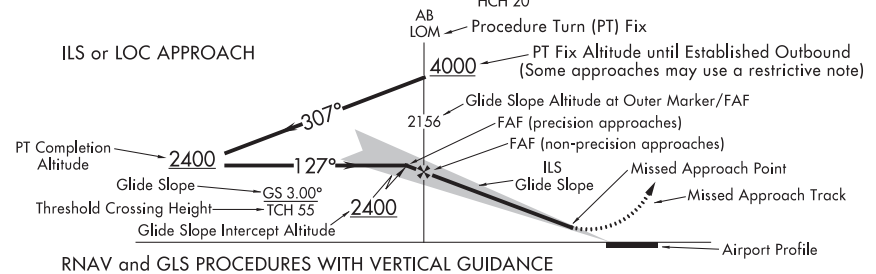
PROFILE VIEW

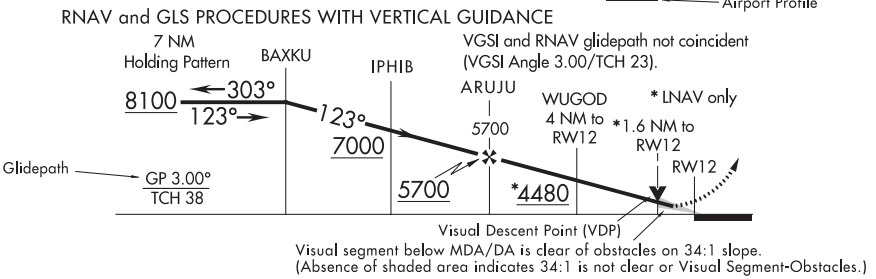
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

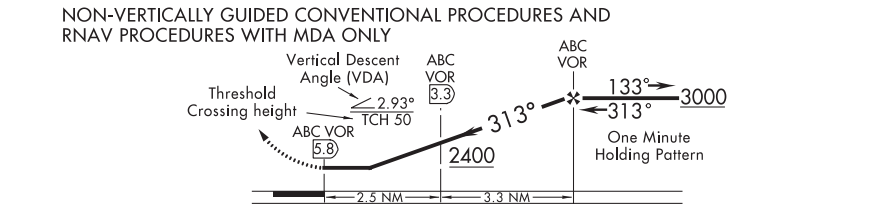
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°/TCH 55.

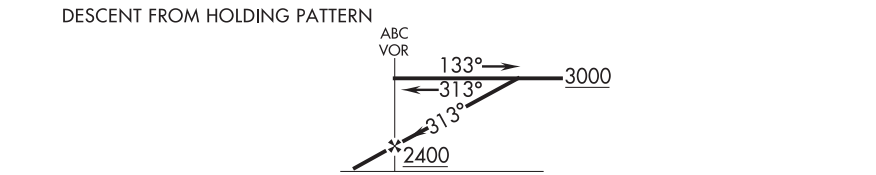
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle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

3. An advisory vertical descent angle (VDA) is provided on non-vertically guided conventional procedures and RNAV procedures with only a minimum descent altitude (MDA) to assist in preventing controlled flight into terrain. On Civil (FAA) procedures, this information is placed above or below the procedure track following the fix it is based on. Absence of a VDA or a note that the VDA is not authorized indicates that the prescribed obstacle clearance surface is not clear and the VDA must not be used below MDA. VDA is depicted in the following format: ∠3.00°/TCH 55. On Copter procedures this is depicted in the following format: ∠7.30°/HCH 20.









ALTITUDES

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

PROFILE SYMBOLS

- 2400 — Glide Slope/Glidepath Intercept Altitude and final approach fix for vertically guided approach procedures.
- ▼ Visual Descent Point (VDP)
- Visual Flight Path
- Note: Facilities and waypoints are depicted as a solid vertical line while fixes and intersections are depicted as a dashed vertical line.

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LEGEND 19059

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

Applies to both STAR and DP Charts unless otherwise noted.

RADIO AIDS TO NAVIGATION

Compulsory:

VOR, VORTAC, DME, NDB/DME, VOR/DME, TACAN, NDB

Non-Compulsory:

VOR, VORTAC, DME, NDB/DME, VOR/DME, TACAN, NDB

LMM, LOM (Compass locator)

Marker Beacon

LOC, LOC/DME (shown when installation is offset from its normal position off the end of the runway.) (DP)

Localizer Course

SDF Course

(T) indicates frequency protection range (STAR)

(Y) TACAN must be placed in "Y" mode to receive distance information

Identifier

Frequency

ORLANDO
112.25 (T) ORL
Chan 59 (Y)
N28°32.56′ - W81°20.10′

Geographic Position

L-19, H-5

DME or TACAN Channel

Underline indicates no voice transmitted on this frequency

Enroute Chart Reference

Coordinates

Waypoint Name

PRAYS
N38°58.30′ W89°51.50′
112.7 CAP 187.1°-56.2
590

Frequency

Identifier

Reference Facility Elevation

Radial-Distance (Facility to Waypoint)

FIXES/ATC REPORTING REQUIREMENTS

Reporting Points
N00°00.00′
W00°00.00′

75 DME Mileage (when not obvious)

Fix-Compulsory and
Non-Compulsory Position Report

DME fix

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

X Computer Navigation Fix (CNF) - No ATC Function
N00°00.00′
W00°00.00′

ROUTES

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

Transition Route

R-275 Radial line and value

Lost Communications Track

Visual Flight Path (DP)

V12 J80 Airway/Jet Route Identification

DP Holding Pattern (IAS)

STAR Holding Pattern (IAS)

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

SPECIAL USE AIRSPACE

R-352

R-Restricted
P-Prohibited
MOA-Military Operations Area
W-Warning
A-Alert

ALTITUDES

5500	2300	4800
Mandatory Altitude (Cross at)	Minimum Altitude (Cross at or above)	Maximum Altitude (Cross at or below)

15000
12000
Block Altitude

Altitude change at other than Radio Aids (STAR)

INDICATED AIRSPEED

175K	120K	250K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed

AIRPORTS

(DP)

H Heliport

Civil, Military, Joint Civil-Military

Airports not served by the procedure shown in screened color (STAR)

Civil, Military, Joint Civil-Military

MISCELLANEOUS

Changeover Point

Distance not to scale (DP)

International Boundary (DP)

Air Defense Identification Zone

T Takeoff Minimums and (Obstacle) Departure Procedures entry published. (DP)

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LEGEND 19059

19339

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Stopways,Taxiways, Parking Areas | Metal Surface

Closed Runway | Closed Surface | Under Construction | Water Runway

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.

uni-directional | bi-directional | Jet Barrier

ARRESTING SYSTEM (EMAS)

REFERENCE FEATURES

Displaced Threshold.....
Hot Spot .....
Runway Holding Position Markings.....
Buildings.....
24-Hour Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway
Radar Reflectors.....
Control Tower #..... TWR

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

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

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)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures

landing point.....

NOTE:
Landmark features depicted on Copter Approach insets and sketches are provided for visual reference only.

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.8% UP ⟵ 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.

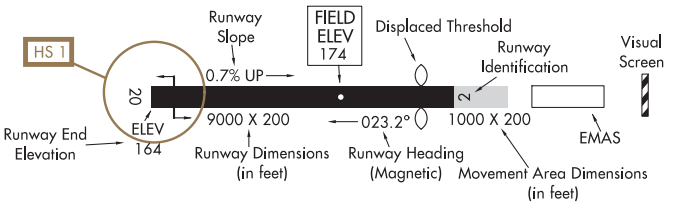
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

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

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 Chart Supplement for distance information.



SCOPE

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

LEGEND

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LEGEND 15344

INSTRUMENT APPROACH PROCEDURES (CHARTS)

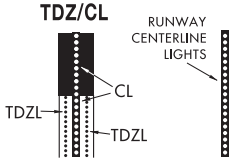
APPROACH LIGHTING SYSTEM - UNITED STATES

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

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

RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS

TDZ/CL

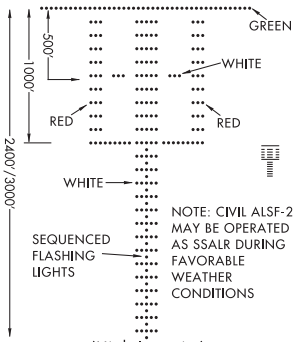


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

APPROACH LIGHTING SYSTEM

A

ALSF-2



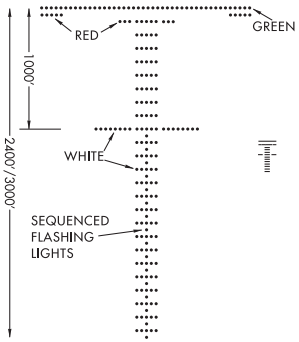
NOTE: CIVIL ALSF-2 MAY BE OPERATED AS SSALR DURING FAVORABLE WEATHER CONDITIONS

(High Intensity)
LENGTH 2400/3000 FEET

APPROACH LIGHTING SYSTEM

A1

ALSF-1



(High Intensity)
LENGTH 2400/3000 FEET

SHORT APPROACH LIGHTING SYSTEM

A2

SALS/SALSF

(High Intensity)

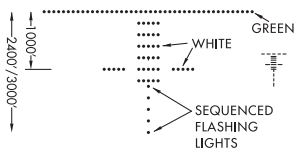
SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

A3

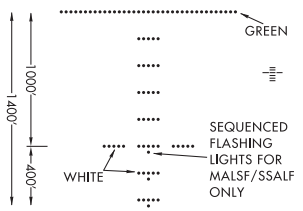
SSALR



(High Intensity)
LENGTH 2400/3000 FEET

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

A4



LENGTH 1400 FEET

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

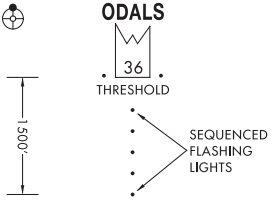
A5

MALSR

SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

ODALS



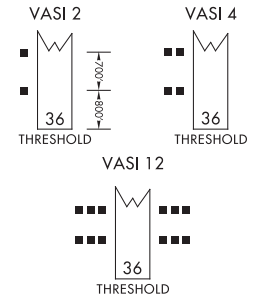
LENGTH 1500 FEET

V VISUAL APPROACH SLOPE INDICATOR

VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

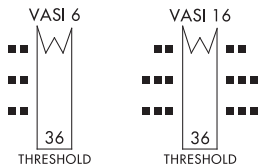
ALL LIGHTS WHITE — TOO HIGH
FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE
ALL LIGHTS RED — TOO LOW



V3 VISUAL APPROACH SLOPE INDICATOR

VASI

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



LEGEND 15344

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LEGEND 18256

INSTRUMENT APPROACH PROCEDURES (CHARTS)

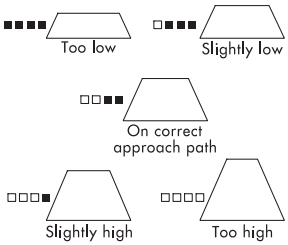
APPROACH LIGHTING SYSTEM - UNITED STATES

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

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

(P) PRECISION APPROACH PATH INDICATOR

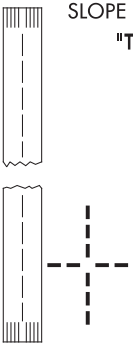
PAPI



Legend: □ White ■ Red

(V1) "T"-VISUAL APPROACH SLOPE INDICATOR

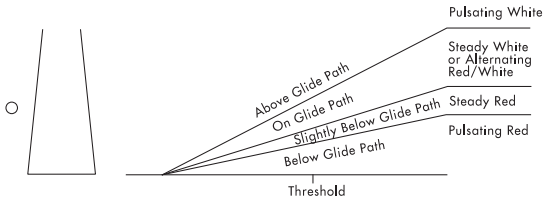
"T"-VASI



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

(V2) PULSATING VISUAL APPROACH SLOPE INDICATOR

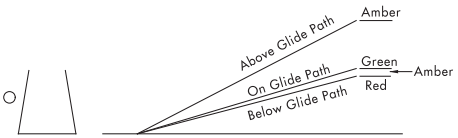
PVASI



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

(V4) TRI-COLOR VISUAL APPROACH SLOPE INDICATOR

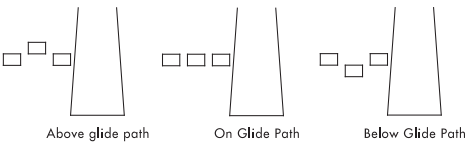
TRCV



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

(V5) ALIGNMENT OF ELEMENTS SYSTEMS

APAP



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

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FREQ PAIRING 20198

FREQUENCY PAIRING TABLE

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

See the Chart Supplement for a complete listing.

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FREQ PAIRING 20198

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

AKRON, OH
AKRON FULTON INTL(AKR)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... BRWNZ THREE (RNAV) Z5
HUUVR ONE (RNAV) Z22
ZZIPS ONE (RNAV) Z47
IAPS ..... RNAV (GPS) RWY 25 1
LOC RWY 25 2
NDB RWY 25 3
AIRPORT DIAGRAM 4
AKRON-CANTON RGNL(CAK)
TAKEOFF MINIMUMS L
LAHSO ..... O
HOT SPOT ..... P
STARS ..... BRWNZ THREE (RNAV) Z5
HUUVR ONE (RNAV) Z22
ZZIPS ONE (RNAV) Z47
IAPS ..... ILS OR LOC RWY 01 5
ILS OR LOC RWY 05 6
ILS OR LOC RWY 19 7
ILS OR LOC RWY 23 8
RNAV (GPS) RWY 01 9
RNAV (GPS) RWY 05 10
RNAV (GPS) RWY 19 11
RNAV (GPS) RWY 23 12
VOR RWY 05 13
VOR RWY 23 14
AIRPORT DIAGRAM 15

AKRON-CANTON RGNL
---SEE AKRON, OH

ALDERMAN
---SEE ST CLAIRSVILLE, OH

ALEXANDER SALAMON
---SEE WEST UNION, OH

ANDERSON, IN
ANDERSON MUNI-DARLINGTON FIELD(AID)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 30 16
RNAV (GPS) RWY 30 17
NDB RWY 30 18
AIRPORT DIAGRAM 19

ANGOLA, IN
TRI-STATE STEUBEN COUNTY(ANQ)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 05 20
RNAV (GPS) RWY 23 21

ARENS FIELD
---SEE WINAMAC, IN

ASHLAND, OH
ASHLAND COUNTY(3G4)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 19 22

ASHTABULA, OH
NORTHEAST OHIO RGNL(HZY)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 09 23
RNAV (GPS) RWY 27 24
VOR RWY 27 25
VOR-A 26

ATHENS (ALBANY), OH
OHIO UNIVERSITY(UNI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 25 27
RNAV (GPS) RWY 07 28
RNAV (GPS) RWY 25 29
NDB RWY 25 30

AUBURN, IN
DE KALB COUNTY(GWB)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
IAPS ..... ILS OR LOC RWY 27 31
RNAV (GPS) RWY 09 32
RNAV (GPS) RWY 27 33
VOR-A 34

BARNESVILLE, OH
BARNESVILLE-BRADFIELD(6G5)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 27 35
VOR/DME RWY 27 36

BATAVIA, OH
CLERMONT COUNTY(I69)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
STARS ..... BRUSH FOUR Z3
CINCE NINE Z9
HARDU FIVE Z18
HEDEE FOUR Z20
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IAPS ..... RNAV (GPS) RWY 05 658
RNAV (GPS) RWY 10 659
RNAV (GPS) RWY 23 660
RNAV (GPS) RWY 28 661
NDB RWY 10 662
DPS ..... AHMET FOUR (RNAV) 663
CAVVS FOUR (RNAV) 664
GTLKE FOUR (RNAV) 665
MYCAR FOUR (RNAV) 666
ZAAPA FIVE (RNAV) 667

WILMINGTON, OH
CLINTON FIELD(I66)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 03 668
RNAV (GPS) RWY 21 669
WILMINGTON AIR PARK(ILN)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC RWY 04L 670
ILS OR LOC RWY 04R 671
ILS OR LOC RWY 22R 672
ILS OR LOC RWY 22L 673
ILS RWY 22R (SA CAT I) 674
ILS RWY 22L (CAT II) 675
ILS RWY 22R (CAT II - III) 676
RNAV (GPS) RWY 04L 677
RNAV (GPS) RWY 22R 678
AIRPORT DIAGRAM 679

WINAMAC, IN
ARENS FIELD(RWN)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 09 680
RNAV (GPS) RWY 27 681
VOR/DME-A 682

WINCHESTER, IN
RANDOLPH COUNTY(I22)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 08 683
RNAV (GPS) RWY 26 684
VOR-A 685

WOOD COUNTY
---SEE BOWLING GREEN, OH

WOODSFIELD, OH
MONROE COUNTY(4G5)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 25 686
VOR/DME RWY 25 687

WOOSTER, OH
WAYNE COUNTY(BJJ)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 10 688
RNAV (GPS) RWY 28 689
VOR RWY 10 690
VOR RWY 28 691

WRIGHT-PATTERSON AFB(KFFO)
DAYTON, OH
TAKEOFF MINIMUMS L
STARS ..... DANEI THREE Z11
KEKEE FOUR Z25
IAPS ..... ILS OR LOC RWY 05L 692
ILS OR LOC RWY 23R 693
RNAV (GPS) RWY 05L 694
RNAV (GPS) RWY 05R 695
RNAV (GPS) RWY 23L 696
RNAV (GPS) RWY 23R 697
TACAN RWY 05L 698
TACAN RWY 05R 699
TACAN RWY 23L 700
TACAN RWY 23R 701
AIRPORT DIAGRAM 702

WYANDOT COUNTY
---SEE UPPER SANDUSKY, OH

YOUNGSTOWN, OH
YOUNGSTOWN ELSER METRO(4G4)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 10 703
RNAV (GPS) RWY 28 704
VOR-C 705

YOUNGSTOWN-WARREN, OH
YOUNGSTOWN-WARREN RGNL(YNG)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
RADAR MINIMUMS ....N
HOT SPOT ....P
IAPS ..... ILS OR LOC RWY 14 706
ILS OR LOC RWY 32 707
RNAV (GPS) RWY 14 708
RNAV (GPS) RWY 32 709
VOR-A 710
NDB RWY 32 711
AIRPORT DIAGRAM 712

ZANESVILLE, OH
ZANESVILLE MUNI(ZZV)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... ILS OR LOC RWY 22 713
RNAV (GPS) RWY 04 714
RNAV (GPS) RWY 22 715
VOR RWY 04 716
VOR RWY 22 717

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

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

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

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

AKRON, OH

AKRON-CANTON RGNL (CAK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 18NOV10 (10322) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 1, multiple trees beginning 2756’ from DER, 447’ left of centerline, up to 116’ AGL/1316’ MSL.
Power lines beginning 3215’ from DER, left and right of centerline, up to 80’ AGL/1289’ MSL.
Rwy 5, multiple trees beginning 840’ from DER, 550’ right of centerline, up to 116’ AGL/1336’ MSL.
Tree 577’ from DER, 561’ left of centerline, 46’ AGL/1256’ MSL.
Rwy 19, trees beginning 1998’ from DER, 817’ left of centerline, up to 100’ AGL/1290’ MSL.

AKRON FULTON INTL (AKR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13NOV14 (14317) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-1 or std. w/min. climb of 490’ per NM to 1300.
Rwy 7, 300-1½. or std. w/min. climb of 230’ per NM to 1400 or alternatively, with std. takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1800’ prior to DER.
Rwy 19, 300-1 5/8 or std. w/min. climb of 400’ per NM to 1400.
Rwy 25, 300-1 5/8 or std. climb of 685’ per NM to 1500.

DEPARTURE PROCEDURE:

Rwy 25, climb heading 249° to 2600 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 1, trees, buildings, poles, antennas, and parking lots beginning 68’ from DER, 236’ left of centerline, up to 48’ AGL/1085’ MSL.
Trees, poles, buildings and antennas beginning 793’ from DER, 2’ left of centerline, up to 99’ AGL/1135’ MSL.
Trees, poles, buildings, vehicles on roads and parking lot beginning 286’ from DER, 132’ right of centerline, up to 78’ AGL/1121’ MSL.
Trees, poles and buildings beginning 1481’ from DER, 5’ right of centerline, up to 99’ AGL/1210’ MSL.
Rwy 7, rising terrain beginning 45’ from DER, left and right of centerline, 1119’ MSL.
Vehicles on roads and parking lot, trees, fences, bushes and poles beginning 62’ from DER, 10’ right of centerline, up to 21’ AGL/1127’ MSL.
Vehicles on road and parking lot, trees, fences, signs, buildings and poles beginning 1459’ from DER, 4’ right of centerline, up to 69’ AGL/1258’ MSL.

CON’T

AKRON, OH (CON'T)

AKRON FULTON INTL (AKR) (CON'T)

Rwy 7 (CON'T), vehicles on roads, trees, fences and poles beginning 251' from DER, 318' left of centerline, up to 48' AGL/1134' MSL.
Vehicles on roads, trees, fences, antennas and poles beginning 692' from DER, on centerline and left of centerline, up to 93' AGL/1213' MSL.
Rwy 19, rising terrain beginning 3' from DER, left and right of centerline, up to 1183' MSL.
Trees, poles, vehicles, fences, and goalpost beginning 119' from DER, 36' left of centerline, up to 30' AGL/1082' MSL.
Trees, buildings, poles, vehicles, traffic lights and parking lots beginning 1019' from DER, 4' left of centerline, up to 83' AGL/1192' MSL.
Trees, poles, and buildings beginning 3940' from DER, 1' left of centerline, up to 102' AGL/1260' MSL.
Trees, buildings and lights beginning 681' from DER, 431' right of centerline, up to 70' AGL/1115' MSL.
Trees, towers, lights, buildings, fences, poles and vehicles on road beginning 1690' from DER, 3' right of centerline, up to 99' AGL/1262' MSL.
Rwy 25, rising terrain beginning 70' from DER, left and right of centerline, up to 1177' MSL.
Railroad track with train beginning 66' from DER, crossing centerline right to left, 23' AGL/1096' MSL.
Trees, fences and vehicles on roads beginning 53' from DER, 352' right of centerline, up to 71' AGL/1165' MSL.
Trees, bushes, poles, lights, antennas, fences, vehicles on roads and parking lots beginning 1405' from DER, 5' right of centerline, up to 102' AGL/1229' MSL.
Trees beginning 503' from DER, 375' left of centerline, up to 77' AGL/1157' MSL.
Trees, bushes, poles, fences and vehicles on road beginning 1293' from DER, on centerline and left of centerline, up to 106' AGL/1227' MSL.
Towers and antenna beginning 1.4 NM from DER, 216' left of centerline, up to 309' AGL/1343' MSL.

ANDERSON, IN

ANDERSON MUNI-DARLINGTON FIELD (AID)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT1 10MAR11 (11069) (FAA)

TAKEOFF MINIMUMS:
Rwy 30, 300-1¼ or std. w/min. climb of 220' per NM to 1200, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1500' prior to DER.

TAKEOFF OBSTACLE NOTES:
Rwy 12, pole and trees beginning 509' from DER, 519' left of centerline, up to 100' AGL/1005' MSL.
Trees beginning 1947' from DER, 446' right of centerline, up to 100' AGL/1010' MSL.
Railroad 944' from DER, left and right of centerline, up to 23' AGL/945' MSL.
Rwy 18, trees beginning 437' from DER, 169' left of centerline, up to 100' AGL/951' MSL.
Trees beginning 440' from DER, 159' right of centerline, up to 100' AGL/1015' MSL.
Vehicles on road beginning 373' from DER, left and right of centerline, up to 15' AGL/922' MSL.
Terrain 417' from DER, 299' left of centerline, 0' AGL/918' MSL.
Rwy 30, tower and trees beginning 1516' from DER, 519' left of centerline, up to 161' AGL/1057' MSL.
Trees beginning 389' from DER, 344' right of centerline, up to 100' AGL/1009' MSL.
Vehicles on road beginning 152' from DER, left and right of centerline, up to 15' AGL/884' MSL.
Rwy 36, trees beginning 850' from DER, 133' left of centerline, up to 100' AGL/999' MSL.
Building and trees beginning 277' from DER, 361' right of centerline, up to 100' AGL/1009' MSL.
Vehicles on road beginning 165' from DER, left and right of centerline, up to 15' AGL/925' MSL.

ANGOLA, IN

TRI-STATE STEUBEN COUNTY (ANQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 31DEC20 (20366) (FAA)

TAKEOFF MINIMUMS:
Rwy 5, 300-1¼ or std. w/ min. climb of 360' per NM to 1300.

TAKEOFF OBSTACLE NOTES:
Rwy 5, fence, terrain beginning 8' from DER, 268' left of centerline, up to 6' AGL/1003' MSL.
Tree 9' from DER, 460' right of centerline, 1036' MSL.
Trees beginning 170' from DER, 335' left of centerline, up to 1027' MSL.
Trees beginning 237' from DER, 88' right of centerline, up to 1048' MSL.
Trees beginning 655' from DER, 292' right of centerline, up to 1075' MSL.
Trees beginning 845' from DER, 398' left of centerline, up to 1034' MSL.
Tree 1013' from DER, 671' left of centerline, 1040' MSL.
Trees beginning 1092' from DER, 585' left of centerline, up to 1074' MSL.
Tree 1312' from DER, 800' right of centerline, 1078' MSL.
Trees beginning 1397' from DER, 148' right of centerline, up to 1097' MSL.
Trees beginning 1709' from DER, 257' left of centerline, up to 1076' MSL.
Tree 1739' from DER, 928' right of centerline, 1098' MSL.
Trees, buildings, pole beginning 1740' from DER, 202' right of centerline, up to 1099' MSL.
Trees beginning 1828' from DER, 35' left of centerline, up to 1079' MSL.
Trees, poles, buildings, catenary beginning 1895' from DER, 18' right of centerline, up to 1103' MSL.
Trees, fence, terrain, pole beginning 1984' from DER, 14' left of centerline, up to 1106' MSL.
Trees, fence, poles, terrain, buildings, vehicles on traverse way beginning 2205' from DER, 1' left of centerline, up to 1122' MSL.
CON'T

ANGOLA, IN (CON'T)

TRI-STATE STEUBEN COUNTY (ANQ) (CON'T)

Rwy 5 (CON'T), trees, buildings, terrain, fence, tower, poles, general utility beginning 2628' from DER, 77' left of centerline, up to 1130' MSL.
Trees, pole, terrain, fence beginning 2927' from DER, 113' left of centerline, up to 1141' MSL.
Tree 3495' from DER, 459' right of centerline, up to 1125' MSL.
Trees beginning 3582' from DER, 366' right of centerline, up to 1134' MSL.
Trees beginning 3659' from DER, 652' right of centerline, up to 1140' MSL.
Trees beginning 3679' from DER, 117' right of centerline, up to 1141' MSL.
Trees, fence, terrain, beginning 3724' from DER, 218' left of centerline, up to 1147' MSL.
Trees, fence, terrain, buildings beginning 3819' from DER, 30' left of centerline, up to 1164' MSL.
Trees beginning 3838' from DER, 22' right of centerline, up to 1154' MSL.
Trees beginning 4029' from DER, abeam centerline, up to 1160' MSL.
Trees beginning 5636' from DER, 50' left of centerline, up to 1173' MSL.
Trees beginning 5721' from DER, 108' left of centerline, up to 1181' MSL.
Trees beginning 5832' from DER, 66' left of centerline, up to 1194' MSL.
Tree 6072' from DER, 522' left of centerline, 1171' MSL.
Rwy 23, vehicles on traverse way beginning 71' from DER, 343' left of centerline, 998' MSL.
Vehicles on traverse way beginning 114' from DER, 317' right of centerline, up to 1001' MSL.
Building 121' from DER, 456' left of centerline, 22' AGL/1003' MSL.
Building, vehicles on traverse way beginning 172' from DER, 229' left of centerline, up to 28' AGL/1012' MSL.
Trees, vehicles on traverse way, terrain beginning 245' from DER, 7' left of centerline, up to 1029' MSL.
Trees beginning 270' from DER, 374' right of centerline, up to 1002' MSL.
Trees beginning 497' from DER, 149' right of centerline, up to 1013' MSL.
Tree 631' from DER, 224' right of centerline, 1018' MSL.
Trees beginning 632' from DER, 78' right of centerline, up to 1023' MSL.
Trees, poles, terrain beginning 730' from DER, 74' right of centerline, up to 1053' MSL.
Terrain beginning 900' from DER, 10' left of centerline, up to 1031' MSL.
Tree 1331' from DER, 104' left of centerline, 1034' MSL.
Tree 1338' from DER, 18' left of centerline, 1036' MSL.
Trees beginning 1565' from DER, abeam centerline, up to 1061' MSL.
Tree 1623' from DER, 221' left of centerline, 1041' MSL.
Trees beginning 1682' from DER, 283' left of centerline, up to 1042' MSL.
Tree 1818' from DER, 367' left of centerline, 1053' MSL.
Trees beginning 1885' from DER, 2' left of centerline, up to 1065' MSL.
Trees beginning 2188' from DER, 629' left of centerline, up to 1067' MSL.
Trees beginning 2355' from DER, 621' left of centerline, up to 1072' MSL.
Trees beginning 2823' from DER, 37' left of centerline, up to 1082' MSL.
Trees beginning 3045' from DER, 35' left of centerline, up to 1092' MSL.
Trees beginning 3053' from DER, 89' right of centerline, up to 1084' MSL.

ASHLAND, OH

ASHLAND COUNTY (3G4)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 06MAY10 (10126) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 1, trees beginning 61' from DER, 194' right of centerline, up to 50' AGL/1249' MSL.
Rwy 19, trees beginning 5' from DER, 167' left of centerline, up to 50' AGL/1259' MSL.

ASHTABULA, OH

NORTHEAST OHIO RGNL (HZY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 12OCT17 (17285) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 492' from DER, 507' left of centerline, 23' AGL/942' MSL.
Tree 904' from DER, 708' left of centerline, 5' AGL/962' MSL.
Tree 1187' from DER, 650' left of centerline, 14' AGL/966' MSL.
Trees beginning 1259' from DER, 629' left of centerline, up to 40' AGL/967' MSL.
Tree 1370' from DER, 739' left of centerline, 76' AGL/995' MSL.
Trees beginning 1464' from DER, 619' left of centerline, up to 83' AGL/1002' MSL.
Trees beginning 1613' from DER, 699' left of centerline, up to 90' AGL/1010' MSL.
Trees beginning 1737' from DER, 575' left of centerline, up to 103' AGL/1023' MSL.
Trees beginning 1778' from DER, 468' left of centerline, up to 105' AGL/1026' MSL.
Tree 2099' from DER, 816' right of centerline, 49' AGL/981' MSL.
Tree 2139' from DER, 748' right of centerline, 73' AGL/999' MSL.
Trees beginning 2201' from DER, 169' right of centerline, up to 75' AGL/1003' MSL.
Rwy 27, trees beginning 746' from DER, 646' right of centerline, up to 45' AGL/939' MSL.
Pole 801' from DER, 484' left of centerline, 29' AGL/937' MSL.
Pole 818' from DER, 645' left of centerline, 35' AGL/938' MSL.
Trees beginning 1059' from DER, 678' right of centerline, up to 59' AGL/949' MSL.
Trees beginning 1134' from DER, 646' right of centerline, up to 84' AGL/978' MSL.
CON'T

ASHTABULA, OH (CON'T)
NORTHEAST OHIO RGNL (HZY) (CON'T)
Rwy 27 (CON'T), trees beginning 1182' from DER, 740' left of centerline, up to 72' AGL/966' MSL.
Trees beginning 1978' from DER, 546' right of centerline, up to 92' AGL/991' MSL.
Tree 3418' from DER, 811' left of centerline, 97' AGL/995' MSL.
Tree 3717' from DER, 1073' left of centerline, 105' AGL/1003' MSL

ATHENS (ALBANY), OH
OHIO UNIVERSITY (UNI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 23JUL15 (15204) (FAA)
TAKEOFF MINIMUMS:
Rwy 7, 200-1 or std. w/ min. climb of 310' per NM to 1000.
Rwy 25, 200-1 or std. w/ min. climb of 360' per NM to 1000.
TAKEOFF OBSTACLE NOTES:
Rwy 7, trees beginning 4439' from DER, 1034' left of centerline, up to 100' AGL/933' MSL.
Trees beginning 2869' from DER, 1171' right of centerline, up to 100' AGL/879' MSL.
Vehicle abeam DER 451' left of centerline, 17' AGL/769' MSL.
Rwy 25, trees beginning 3371' from DER, 425' left of centerline, up to 100' AGL/925' MSL.
Trees beginning 1221' from DER, 624' right of centerline, up to 100' AGL/999' MSL.

AUBURN, IN
DE KALB COUNTY(GWB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 28SEP06 (06271) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, multiple trees beginning 428' from DER, 227' right of centerline, up to 100' AG/979' MSL.
Rwy 27, multiple trees beginning 83' from DER, 207' left of centerline, up to 100' AGL/939' MSL.
Multiple tree beginning 1377' from DER, 316' right of centerline, up to 100' AGL/930' MSL.

BARNESVILLE, OH
BARNESVILLE-BRADFIELD (6G5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 24OCT85 (85297) (FAA)
TAKEOFF MINIMUMS:
Rwys 9, 27, 300-1.

BATAVIA, OH
CLERMONT COUNTY (I69)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03MAY12 (12124) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 4, terrain 8' from DER, 311' left of centerline, 813' MSL.
Trees beginning 89' from DER, left and right of centerline, up to 100' AGL/899' MSL.
Fence 195' from DER, 276' left of centerline, up to 19' AGL/819' MSL.
Vehicles on roadway beginning 237' from DER, left and right of centerline, up to 15' AGL/824' MSL.
Windsock 408' from DER, 225' right of centerline, up to 24' AGL/824' MSL.
Rwy 22, buildings 55' from DER, left and right of centerline, up to 22' AGL/862' MSL.
Trees beginning 81' from DER, left and right of centerline, up to 100' AGL/ 967' MSL.
Fences beginning 102' from DER, left and right of centerline, up to 17' AGL/857' MSL.
Poles beginning 195' from DER, left and right of centerline, up to 45' AGL/ 885' MSL.
Vehicles on roadway beginning 216' from DER, left and right of centerline, up to 15' AGL/866' MSL.
Sign 441' from DER, 231' left of centerline, up to 19' AGL/859' MSL.

BEDFORD, IN
VIRGIL I GRISSOM MUNI (BFR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 22SEP11 (11265) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 6, trees beginning 321' from DER, left and right of centerline, up to 112' AGL/830' MSL.
Rwy 13, trees beginning 78' from DER, left and right of centerline, up to 110' AGL/849' MSL.
Rwy 24, trees beginning 534' from DER, left and right of centerline, up to 100' AGL/800' MSL.
Rwy 31, trees beginning 27' from DER, left and right of centerline, up to 107' AGL/806' MSL.

BELLEFONTAINE, OH
BELLEFONTAINE RGNL (EDJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 18OCT12 (12292) (FAA)
TAKEOFF MINIMUMS:
Rwy 7, std. w/min. climb of 245' per NM to 2100.
DEPARTURE PROCEDURE:
Rwy 7, climb heading 074° to 2100 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 7, trees beginning 2172' from DER, 43' right of centerline, up to 99' AGL/ 1224' MSL.
Trees beginning 2252' from DER, 77' left of centerline, up to 89' AGL/1228' MSL.
Rwy 25, tree 508' from DER, 539' right of centerline, 35' AGL/ 1144' MSL.
Ground 66' from DER, 494' right of centerline, 1107' MSL.

BLOOMINGTON, IN
MONROE COUNTY (BMG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 25AUG11 (11237) (FAA)
TAKEOFF MINIMUMS:
Rwy 24, 300-1.
TAKEOFF OBSTACLE NOTES:
Rwy 6, poles and building beginning 424' from DER, 332' left of centerline, up to 29' AGL/874' MSL.
Trees beginning 491' from DER, left and right of centerline, up to 72' AGL/972' MSL.
Fence 181' from DER, 115' right of centerline, 6' AGL/846' MSL.
Vehicle on road beginning 89' from DER, left and right of centerline,15' AGL/862' MSL.
Rwy 17, vehicle on road 187' from DER, 18' right of centerline, 15' AGL/850' MSL.
Tree 1263' from DER, 625' right of centerline, 32' AGL/871' MSL.
Bush 855' from DER, 594' left of centerline, 25' AGL/862' MSL.
Rwy 24, trees and poles beginning 158' from DER, left and right of centerline, up to 85' AGL/1021' MSL.
Fence 394' from DER, 72' left of centerline, 9' AGL/849' MSL.
Buildings beginning 1990' from DER, 321' right of centerline, up to 25' AGL/952' MSL.
Vehicle on road beginning 45' from DER, left and right of centerline, 15' AGL/945' MSL.
Rwy 35, trees beginning 2119' from DER, 120' left and right of centerline, up to 85' AGL/975' MSL.

BLUFFTON, OH
BLUFFTON (5G7)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 15OCT15 (15288) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, runway lights beginning 9' from DER, left and right of centerline, up to 3' AGL/848' MSL.
Road and pole beginning 53' from DER, left and right of centerline, up to 42' AGL/889' MSL.
Roads beginning 211' from DER, 330' right of centerline, up to 17' AGL/881' MSL.
Poles, road and tree beginning 497' from DER, up to 100' AGL/883' MSL.
Trees and poles beginning 1205' from DER, left and right of centerline, up to 100' AGL/911' MSL.
Rwy 23, runway lights beginning 8' from DER, left and right of centerline, up to 4' AGL/852' MSL.
Tree 91' from DER, 167' left of centerline, 100' AGL/853' MSL.
Tree 298' from DER, 506' right of centerline, 100' AGL/866' MSL.
Trees beginning 405 from DER, left and right of centerline, up to 100' AGL/900' MSL.
Trees beginning 1007' from DER, left and right of centerline, up to 100' AGL/932' MSL.

BOWLING GREEN, OH
WOOD COUNTY (1G0)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 15MAR07 (07074) (FAA)
TAKEOFF MINIMUMS:
Rwy 18, 300-1.
TAKEOFF OBSTACLE NOTES:
Rwy 18, building/tower 3581' from DER, 254' right of centerline, 141' AGL/841' MSL.

BRAZIL, IN
BRAZIL CLAY COUNTY (0I2)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
TAKEOFF MINIMUMS:
Rwys 9, 27, 300-1.

BRYAN, OH
WILLIAMS COUNTY (0G6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7, vehicles on road beginning 49' from DER, from left to right of centerline, up to 15' AGL/734' MSL.
Tree 160' from DER, 323' left of centerline 30' AGL/759' MSL.
Trees beginning 324' from DER, 403' right of centerline, up to 101' AGL/829' MSL.
Rwy 25, vehicles on road beginning 203' from DER, from right to left of centerline, up to 15' AGL744' MSL.
Pole 285' from DER, 329' right of centerline, 37' AGL/767' MSL.
Trees beginning 2787' from DER, 769' right of centerline, up to 100' AGL/829' MSL.

BUCYRUS, OH
PORT BUCYRUS-CRAWFORD COUNTY (17G)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18NOV10 (10322) (FAA)
TAKEOFF MINIMUMS:
Rwy 4, 300-1½ or std. w/ min. climb of 297' per NM to 1300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 4, terrain 4' from DER, 484' right of centerline, up to 1008' MSL.
Aircraft on ramp beginning 47' from DER, 289' right of centerline, up to 15' AGL/1019' MSL.
Terrain beginning 93' from DER, 245' left of centerline, up to 1008' MSL.
Vehicle on road beginning 107' from DER, 487' right of centerline, 15' AGL/1019' MSL.
Trees 229' from DER, 261' left of centerline, up to 100' AGL/1099' MSL.
Trees 2777' from DER,1207' left of centerline, up to 100' AGL/1109' MSL.
Trees 2933' from DER, 330' right of centerline, up to 100' AGL/1124' MSL.
Tower 1.1 NM from DER, 1798' left of centerline, 165' AGL/1175' MSL.
Rwy 22, buildings beginning 4' from DER, 352' right of centerline, up to 40' AGL/1044' MSL.
Vehicle on road beginning 243' from DER, 552' left of centerline, 15' AGL/1019' MSL.
Trees 426' from DER, 382' left of centerline, up to 100' AGL/1104' MSL.
Trees 733' from DER, 466' right of centerline, up to 100' AGL/1099' MSL.

CADIZ, OH
HARRISON COUNTY (8G6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 10SEP20 (20254) (FAA)
TAKEOFF MINIMUMS:
Rwy 13, 300-1⅞ or std. w/min. climb of 274' per NM to 1400.
TAKEOFF OBSTACLE NOTES:
Rwy 13, tree, vegetation beginning 31' from DER, 98' left of centerline, up to 1133' MSL.
Building, tree beginning 55' from DER, 163' right of centerline, up to 17' AGL/1127' MSL.
Pole, tree beginning 190' from DER, 114' left of centerline, up to 39' AGL/1148' MSL.
Trees beginning 225' from DER, 154' right of centerline, up to 1132' MSL.
Tree, pole beginning 407' from DER, 82' left of centerline, up to 1175' MSL.
Tree 656' from DER, 449' right of centerline, 1137' MSL.
Tree 697' from DER, 281' right of centerline, 1139' MSL.
Tree 722' from DER, 647' right of centerline, 1144' MSL.
Tree 811' from DER, 450' right of centerline, 1156' MSL.
Trees beginning 858' from DER, 179' right of centerline, up to 1158' MSL.
Trees beginning 927' from DER, 58' right of centerline, up to 1169' MSL.
Tree, terrain, pole, fence beginning 1068' from DER, 44' right of centerline, up to 1199' MSL.
Tree 1530' from DER, 151' left of centerline, 1195' MSL.
Trees beginning 1620' from DER, 221' left of centerline, up to 1204' MSL.
Trees beginning 1727' from DER, 4' left of centerline, up to 1215' MSL.
Terrain, tree beginning 1927' from DER, 22' right of centerline, up to 1208' MSL.
Trees beginning 2703' from DER, 87' left of centerline, up to 1220' MSL.
Tree, terrain beginning 2811' from DER, 228' right of centerline, up to 1224' MSL.
Tree, terrain beginning 2944' from DER, 68' right of centerline, up to 1230' MSL.
Tree 3047' from DER, 126' left of centerline, 1222' MSL.
Tree, terrain beginning 3080' from DER, 43' right of centerline, up to 1232' MSL.
Trees beginning 3277' from DER, 401' right of centerline, up to 1233' MSL.
Trees beginning 3399' from DER, 104' right of centerline, up to 1234' MSL.
Tree 5966' from DER, 2009' right of centerline, 1273' MSL.
Tree 1 NM from DER, 2037' right of centerline, 1309' MSL.
Trees beginning 1 NM from DER, 1544' right of centerline, up to 1325' MSL.
Tree 1.3 NM from DER, 428' left of centerline, 1312' MSL.
Trees beginning 1.3 NM from DER, 343' left of centerline, up to 1329' MSL.
Trees beginning 1.4 NM from DER, 1568' left of centerline, up to 1339' MSL.
Tree 1.4 NM from DER, 1705' left of centerline, 1340' MSL.
Trees beginning 1.5 NM from DER, 1653' left of centerline, up to 1350' MSL.
Trees beginning 1.5 NM from DER, 1592' left of centerline, up to 1350' MSL.
CON'T

CADIZ, OH (CON'T)

HARRISON COUNTY (8G6) (CON'T)

Rwy 31, terrain 40' from DER, 175' right of centerline, 1198' MSL.
Terrain 71' from DER, 374' left of centerline, 1188' MSL.
Terrain 89' from DER, 287' right of centerline, 1219' MSL.
Terrain 99' from DER, 195' left of centerline, 1194' MSL.
Trees and fence beginning 136' from DER, 5' right of centerline, up to 1229' MSL.
Terrain 196' from DER, 494' left of centerline, 1213' MSL.
Trees beginning 204' from DER, 200' left of centerline, up to 1214' MSL.
Fence beginning 341' from DER, 97' left of centerline, up to 3' AGL/1218' MSL.
Trees and fence beginning 403' from DER, 1' right of centerline, up to 1235' MSL.
Fence beginning 485' from DER, 100' left of centerline, up to 4' AGL/1219' MSL.
Fence beginning 802' from DER, 109' left of centerline, up to 4' AGL/1224' MSL.
Fence and vegetation beginning 964' from DER, 41' left of centerline, up to 4' AGL/1226' MSL.
Trees and fence beginning 991' from DER, 88' left of centerline, up to 1229' MSL.

CALDWELL, OH

NOBLE COUNTY (I10)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 22MAY97 (97146) (FAA)

TAKEOFF MINIMUMS:
Rwy 5, 23, 400-1.

DEPARTURE PROCEDURE:
Rwy 23, climb runway heading to 1500 before turning.

CAMBRIDGE, OH

CAMBRIDGE MUNI (CDI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 05MAR15 (15064) (FAA)

TAKEOFF MINIMUMS:
Rwy 4, 400-2 or std. w/min. climb of 397' per NM to 1400.
Rwy 22, 300-1½ or std. w/min. climb of 685' per NM to 1100.

DEPATURE PROCEDURE:
Rwy 4, climb heading 040° to 1300 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 4, multiple trees beginning 161' from DER, 179' left of centerline, up to 51' AGL/849' MSL.
Multiple trees beginning 672' from DER, 563' right of centerline, up to 62' AGL/860' MSL.
Multiple poles beginning 301' from DER, 519' right of centerline, up to 31' AGL/973' MSL.
Multiple towers beginning 794' from DER, 659' left of centerline, up to 43' AGL/835' MSL.
Building 639' from DER, 386' right of centerline, 25' AGL/825' MSL.
Multiple poles beginning 990' from DER, 26' left of centerline, up to 36' AGL/826' MSL.
Multiple trees beginning 1147' from DER, 144' right of centerline, up to 74' AGL/872' MSL.
Multiple trees beginning 1307' from DER, 2' left of centerline, up to 89' AGL/887' MSL.
Multiple towers, poles beginning 1040' from DER, 336' right of centerline, up to 48' AGL/843' MSL.
Multiple towers, poles beginning 1089' from DER, 613' left of centerline, up to 36' AGL/833' MSL.
Sign 1029' from DER, 623' left of centerline, 35' AGL/832' MSL.
Monument 1.5 NM from DER, 402' left of centerline, 120' AGL/1098' MSL.
Multiple trees beginning 1.5 NM from DER, 738' right of centerline, up to 100' AGL/1126' MSL.
Tower 2.8 NM from DER, 4400' left of centerline, 233' AGL/1106' MSL.
Rwy 22, multiple trees beginning 204' from DER, 309' right of centerline, up to 100' AGL/931' MSL.
Multiple poles beginning 366' from DER, 43' right of centerline, up to 35' AGL/834' MSL.
NAVAID 300' from DER, 1' right of centerline, 9' AGL/807' MSL.
Obstruction light on DME 477' from DER, 168' right of centerline, 19' AGL/817' MSL.
Multiple trees beginning 1004' from DER, 395' left of centerline, up to 100' AGL/1023' MSL.
Multiple poles beginning 1165' from DER, 93' left of centerline, up to 34' AGL/1021' MSL.
Building 1272' from DER, 426' right of centerline, 21' AGL/881' MSL.

CARROLLTON, OH

CARROLL COUNTY-TOLSON (TSO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 20MAY99 (99140) (FAA)

TAKEOFF MINIMUMS:
Rwy 7, 25, 300-1.

TAKEOFF OBSTACLE NOTES:
Rwy 7, 100' AGL trees 1800' from DER, 400' left of centerline.
Rwy 25, 100' AGL trees 200' from DER, 400' left of centerline.

CELINA, OH
LAKEFIELD (CQA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 11FEB10 (10042) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 8, trees beginning 782' from DER, 7' right of centerline, up to 100' AGL/969' MSL.
Trees beginning 57' from DER, 130' left of centerline, up to 100' AGL/976' MSL.
Rwy 26, vehicle 63' from DER, 469' right of centerline, 15' AGL/909' MSL.
Poles beginning 127' from DER, 145' right of centerline, up to 51' AGL/941' MSL.
Antenna 653' from DER, 498' right of centerline, 33' AGL/923' MSL.
Trees beginning 1194' from DER, 319' right of centerline, up to 100' AGL/952' MSL.

CHILLICOTHE, OH
ROSS COUNTY (RZT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 17NOV11 (11321) (FAA)
TAKEOFF MINIMUMS:
Rwy 23, 400-1 or std. with min. climb of 340' per NM to 1300.
DEPARTURE PROCEDURE:
Rwy 5, climb runway heading to 1500 before turning right.
Rwy 23, climb runway heading to 1500 before turning left.

CINCINNATI, OH
CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 15 15AUG19 (19227) (FAA)
TAKEOFF MINIMUMS:
Rwy 3L, 400-2 w/min. climb of 226' per NM to 1300 or std. w/min. climb of 423' per NM to 1000 or 1700-3 for VCOA.
Rwy 3R, 400-2 w/min. climb of 233' per NM to 1300 or std. w/min. climb of 384' per NM to 1100 or 1700-3 for VCOA.
Rwy 7, 400-1¾ w/min. climb of 279' per NM to 1000 or std. w/min. climb of 451' per NM to 1000 or 1700-3 for VCOA.
Rwy 21L, 500-2½ w/min. climb of 254' per NM to 1100 or std. w/min. climb of 439' per NM to 1000 or 1700-3 for VCOA.
Rwy 21R, 500-2¾ w/min. climb of 226' per NM to 1100 or std. w/min. climb of 489' per NM to 1100 or 1700-3 for VCOA.
Rwy 25, 600-2½ w/min. climb of 268' per NM to 1100 or 1700-3 for VCOA.
DEPARTURE PROCEDURE:
Rwy 3L, climb heading 027° to 1200 before proceeding on course.
Rwy 3R, climb heading 025° to 1400 before proceeding on course.
Rwy 7, climb heading 066° to 1300 before proceeding on course.
Rwy 21L, climb heading 205° to 1400 before proceeding on course.
Rwy 21R, climb heading 207° to 1500 before proceeding on course.
Rwy 25, climb heading 246° to 1900 before proceeding on course.
VCOA:
Obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Cincinnati Muni Airport Lunken Field at or above 2000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 3L, buildings beginning 108' from DER, 259' left of centerline, up to 514' MSL.
Pole 510' from DER, 595' right of centerline, 501' MSL.
Buildings beginning 609' from DER, 308' left of centerline, up to 41' AGL/520' MSL.
Buildings, trees beginning 660' from DER, 428' right of centerline, up to 63' AGL/542' MSL.
Tree 1145' from DER, 319' left of centerline, 545' MSL.
Tree 1561' from DER, 734' right of centerline, 543' MSL.
Tree 1710' from DER, 653' left of centerline, 566' MSL.
Trees beginning 1786' from DER, 270' right of centerline, up to 545' MSL.
Building, elevator, trees beginning 2808' from DER, 435' left of centerline, up to 612' MSL.
Trees beginning 3597' from DER, 862' right of centerline, up to 574' MSL.
Trees beginning 3788' from DER, 402' right of centerline, up to 585' MSL.
Stack 5180' from DER, 1104' left of centerline, 634' MSL.
Tree 5305' from DER, 1642' left of centerline, 737' MSL.
Tree 6007' from DER, 1547' left of centerline, 740' MSL.
Trees beginning 1 NM from DER, 1604' left of centerline, up to 814' MSL.
Trees, buildings, terrain beginning 1.1 NM from DER, 583' left of centerline, up to 850' MSL.
Trees beginning 1.2 NM from DER, 598' left of centerline, up to 856' MSL.
Trees, building, terrain beginning 1.2 NM from DER, 413' left of centerline, up to 864' MSL.
Trees, terrain beginning 1.3 NM from DER, 301' left of centerline, up to 869' MSL.
Trees, terrain, poles, building beginning 1.4 NM from DER, 112' left of centerline, up to 875' MSL.
Tree 1.7 NM from DER, 734' left of centerline, 108' AGL/775' MSL.
Rwy 3R, terrain 30' from DER, 476' left of centerline, 476' MSL.
Trees beginning 513' from DER, 335' right of centerline, up to 521' MSL.
Trees beginning 913' from DER, 579' left of centerline, up to 508' MSL.
Trees beginning 1084' from DER, 185' left of centerline, up to 527' MSL.
Trees beginning 1573' from DER, 128' right of centerline, up to 50' AGL/524' MSL.
Trees beginning 1662' from DER, 177' left of centerline, up to 529' MSL.
Trees beginning 1885' from DER, 285' right of centerline, up to 531' MSL.
Tree 1969' from DER, 501' right of centerline, 532' MSL.
CON'T

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CINCINNATI, OH (CON'T)

CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK) (CON'T)

Rwy 3R (CON'T), tree 2015' from DER, 979' right of centerline, 58' AGL/533' MSL.
Trees beginning 2058' from DER, 385' right of centerline, up to 539' MSL.
Trees beginning 2437' from DER, 896' right of centerline, up to 549' MSL.
Tree 2448' from DER, 749' left of centerline, 538' MSL.
Trees beginning 2621' from DER, 587' right of centerline, up to 551' MSL.
Tree 2641' from DER, 1000' left of centerline, 543' MSL.
Trees beginning 2649' from DER, 424' right of centerline, up to 558' MSL.
Trees beginning 2698' from DER, 196' right of centerline, up to 572' MSL.
Trees beginning 2814' from DER, 98' right of centerline, up to 574' MSL.
Trees beginning 2833' from DER, 984' left of centerline, up to 553' MSL.
Tree 2914' from DER, 316' left of centerline, 556' MSL.
Trees beginning 2954' from DER, 439' left of centerline, up to 561' MSL.
Trees beginning 3128' from DER, 730' left of centerline, up to 574' MSL.
Trees beginning 3336' from DER, 167' left of centerline, up to 585' MSL.
Trees beginning 3363' from DER, 537' right of centerline, up to 576' MSL.
Trees beginning 3596' from DER, 627' right of centerline, up to 578' MSL.
Trees beginning 3695' from DER, 589' right of centerline, up to 579' MSL.
Trees beginning 3843' from DER, 730' right of centerline, up to 103' AGL/584' MSL.
Trees beginning 1.1 NM from DER, 2296' left of centerline, up to 695' MSL.
Trees beginning 1.1 NM from DER, 2295' left of centerline, up to 709' MSL.
Trees, terrain beginning 1.2 NM from DER, 2302' left of centerline, up to 717' MSL.
Trees beginning 1.2 NM from DER, 2223' left of centerline, up to 730' MSL.
Trees beginning 1.2 NM from DER, 2272' left of centerline, up to 759' MSL.
Trees beginning 1.2 NM from DER, 2192' left of centerline, up to 807' MSL.
Trees beginning 1.3 NM from DER, 2162' left of centerline, up to 851' MSL.
Trees beginning 1.3 NM from DER, 2070' left of centerline, up to 855' MSL.
Trees, building, poles beginning 1.3 NM from DER, 1811' left of centerline, up to 70' AGL/875' MSL.
Tree 1.6 NM from DER, 2442' left of centerline, 108' AGL/775' MSL.
Rwy 7, lighting 10' from DER, 59' right of centerline, 2' AGL/476' MSL.
Building 246' from DER, 554' left of centerline, 486' MSL.
Tree 530' from DER, 567' left of centerline, 26' AGL/498' MSL.
Trees beginning 706' from DER, 423' right of centerline, up to 521' MSL.
Trees beginning 946' from DER, 82' right of centerline, up to 538' MSL.
Tree 1155' from DER, 559' left of centerline, 33' AGL/505' MSL.
Trees beginning 1190' from DER, 84' left of centerline, up to 48' AGL/521' MSL.
Trees beginning 1512' from DER, 265' left of centerline, up to 50' AGL/524' MSL.
Trees beginning 1576' from DER, 30' left of centerline, up to 58' AGL/530' MSL.
Trees beginning 1718' from DER, 260' left of centerline, up to 532' MSL.
Trees beginning 1806' from DER, 316' left of centerline, up to 537' MSL.
Trees beginning 1810' from DER, 115' right of centerline, up to 550' MSL.
Trees beginning 2033' from DER, 300' left of centerline, up to 539' MSL.
Trees beginning 2116' from DER, 266' right of centerline, up to 77' AGL/551' MSL.
Trees beginning 2172' from DER, 21' right of centerline, up to 575' MSL.
Trees beginning 2272' from DER, 680' left of centerline, up to 545' MSL.
Tree 2425' from DER, 532' left of centerline, 549' MSL.
Trees beginning 2451' from DER, 729' left of centerline, up to 556' MSL.
Trees beginning 2499' from DER, 16' left of centerline, up to 572' MSL.
Trees beginning 2769' from DER, 16' left of centerline, up to 574' MSL.
Trees beginning 2879' from DER, on and right of centerline, up to 592' MSL.
Rwy 7, trees beginning 3002' from DER, 141' left of centerline, up to 100' AGL/576' MSL.
Trees beginning 3723' from DER, 1369' right of centerline, up to 668' MSL.
Trees, building, terrain beginning 3889' from DER, 1033' right of centerline, up to 694' MSL.
Trees beginning 4531' from DER, 1354' right of centerline, up to 709' MSL.
Trees beginning 4546' from DER, 1087' right of centerline, up to 731' MSL.
Trees beginning 1.1 NM from DER, 1899' right of centerline, up to 737' MSL.
Trees beginning 1.2 NM from DER, 1333' right of centerline, up to 757' MSL.
Trees beginning 1.2 NM from DER, 1427' right of centerline, up to 780' MSL.
Trees beginning 1.2 NM from DER, 1131' right of centerline, up to 782' MSL.
Tree, buildings beginning 1.2 NM from DER, 1224' right of centerline, up to 813' MSL.
Trees beginning 1.3 NM from DER, 1653' right of centerline, up to 79' AGL/823' MSL.
Tree 1.6 NM from DER, 2999' right of centerline, 759' MSL.
Rwy 21L, tree 90' from DER, 436' right of centerline, 7' AGL/486' MSL.
Trees beginning 437' from DER, 602' left of centerline, up to 509' MSL.
Tree 748' from DER, 605' left of centerline, 511' MSL.
Trees beginning 835' from DER, 587' left of centerline, up to 522' MSL.
Trees beginning 945' from DER, 583' left of centerline, up to 531' MSL.
Trees beginning 1288' from DER, 720' left of centerline, up to 535' MSL.
Tree 1510' from DER, 880' right of centerline, 524' MSL.
Tree 1553' from DER, 747' right of centerline, 525' MSL.
Trees beginning 1590' from DER, 648' right of centerline, up to 527' MSL.
Trees beginning 1597' from DER, 635' left of centerline, up to 570' MSL.
Trees beginning 1693' from DER, 218' right of centerline, up to 543' MSL.
Trees beginning 1770' from DER, 576' left of centerline, up to 573' MSL.
CON'T

CINCINNATI, OH (CON'T)

CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK) (CON'T)

Rwy 21L (CON'T), trees beginning 1962' from DER, 173' left of centerline, up to 575' MSL.
Tree 2236' from DER, 372' right of centerline, 546' MSL.
Tree 2246' from DER, 250' right of centerline, 66' AGL/547' MSL.
Trees beginning 2347' from DER, 424' right of centerline, up to 549' MSL.
Trees beginning 2529' from DER, 6' left of centerline, up to 588' MSL.
Tree 2538' from DER, 600' right of centerline, 550' MSL.
Trees beginning 2601' from DER, 725' right of centerline, up to 556' MSL.
Tree 2923' from DER, 84' right of centerline, 96' AGL/575' MSL.
Trees beginning 3044' from DER, 3' right of centerline, up to 104' AGL/580' MSL.
Tree 3254' from DER, 328' right of centerline, 105' AGL/582' MSL.
Trees beginning 3344' from DER, 285' right of centerline, up to 106' AGL/584' MSL.
Trees beginning 3470' from DER, 42' right of centerline, up to 115' AGL/591' MSL.
Trees beginning 3614' from DER, 7' right of centerline, up to 135' AGL/597' MSL.
Tree 3868' from DER, 39' left of centerline, 129' AGL/589' MSL.
Trees beginning 3920' from DER, 111' left of centerline, up to 617' MSL.
Trees beginning 4007' from DER, 1406' left of centerline, up to 634' MSL.
Trees beginning 4102' from DER, 1321' left of centerline, up to 654' MSL.
Trees beginning 4376' from DER, 1254' left of centerline, up to 713' MSL.
Trees beginning 4614' from DER, 1152' left of centerline, up to 734' MSL.
Tree 1.4 NM from DER, 2928' right of centerline, 743' MSL.
Trees beginning 1.5 NM from DER, 2353' right of centerline, up to 755' MSL.
Trees beginning 1.5 NM from DER, 2334' right of centerline, up to 790' MSL.
Tree 1.5 NM from DER, 3033' right of centerline, 801' MSL.
Trees beginning 1.5 NM from DER, 2239' right of centerline, up to 807' MSL.
Trees beginning 1.5 NM from DER, 2457' right of centerline, up to 876' MSL.
Trees, terrain beginning 1.6 NM from DER, 2189' right of centerline, up to 882' MSL.
Trees beginning 1.6 NM from DER, 2241' right of centerline, up to 888' MSL.
Tree, pole beginning 1.6 NM from DER, 1845' right of centerline, up to 890' MSL.
Spires, building, tree beginning 1.9 NM from DER, 1589' right of centerline, up to 78' AGL/891' MSL.
Tower 2 NM from DER, 2018' right of centerline, 156' AGL/971' MSL.
Antennas, trees, tower, pole beginning 2 NM from DER, 259' right of centerline, up to 160' AGL/978' MSL.
Trees beginning 2.5 NM from DER, 849' right of centerline, up to 897' MSL.
Rwy 21R, tree 990' from DER, 410' right of centerline, 576' MSL.
Tree 1315' from DER, 118' right of centerline, 581' MSL.
Tree 1428' from DER, 13' left of centerline, 563' MSL.
Trees beginning 1677' from DER, 181' left of centerline, up to 582' MSL.
Trees beginning 1945' from DER, 311' right of centerline, up to 595' MSL.
Tree 1.1 NM from DER, 1738' right of centerline, 716' MSL.
Trees beginning 1.1 NM from DER, 1751' right of centerline, up to 910' MSL.
Trees beginning 1.3 NM from DER, 990' right of centerline, up to 935' MSL.
Trees beginning 1.6 NM from DER, 2334' right of centerline, up to 941' MSL.
Trees, terrain, buildings, pole beginning 1.7 NM from DER, 2' right of centerline, up to 943' MSL.
Tree 1.8 NM from DER, 2' left of centerline, 789' MSL.
Trees beginning 1.9 NM from DER, 21' left of centerline, up to 808' MSL.
Trees beginning 1.9 NM from DER, 101' left of centerline, up to 817' MSL.
Trees beginning 1.9 NM from DER, 94' left of centerline, up to 858' MSL.
Trees beginning 1.9 NM from DER, 33' left of centerline, up to 890' MSL.
Building 2.1 NM from DER, 1474' right of centerline, 952' MSL.
Tower, trees, beginning 2.1 NM from DER, 508' right of centerline, up to 106' AGL/956' MSL.
Spires, building, tree beginning 2.2 NM from DER, 29' left of centerline, up to 78' AGL/891' MSL.
Antenna 2.2 NM from DER, 1215' right of centerline, 966' MSL.
Tower, trees, antenna beginning 2.2 NM from DER, 451' right of centerline, up to 125' AGL/969' MSL.
Tower 2.3 NM from DER, 535' left of centerline, 156' AGL/971' MSL.
Antenna, trees beginning 2.3 NM from DER, 118' left of centerline, up to 160' AGL/978' MSL.
Tree 2.5 NM from DER, 1167' right of centerline, 879' MSL.
Rwy 25, terrain 2' from DER, 417' left of centerline, 483' MSL.
Fence 79' from DER, 460' right of centerline, 487' MSL.
Buildings, fence beginning 177' from DER, 47' left of centerline, up to 35' AGL/518' MSL.
Pole 182' from DER, 310' right of centerline, 511' MSL.
Trees, vehicle on road, transmission line, poles, terrain, buildings beginning 195' from DER, on centerline, up to 51' MSL.
Tree, buildings, poles beginning 513' from DER, on and left of centerline, up to 549' MSL.
Trees, terrain beginning 597' from DER, 50' left of centerline, up to 552' MSL.
Trees, transmission line, signs beginning 1176' from DER, 34' left of centerline, up to 553' MSL.
Trees beginning 1628' from DER, 95' right of centerline, up to 570' MSL.
Tree 3484' from DER, 393' right of centerline, 103' AGL/577' MSL.
Trees beginning 3531' from DER, 256' right of centerline, up to 589' MSL.
Trees, transmission line beginning 3650' from DER, 152' right of centerline, up to 604' MSL.
Tree 3733' from DER, 361' left of centerline, 101' AGL/578' MSL.
Trees beginning 3752' from DER, 119' left of centerline, up to 81' AGL/584' MSL.
Trees beginning 3753' from DER, 17' right of centerline, up to 605' MSL.
Trees beginning 3800' from DER, 288' right of centerline, up to 640' MSL.
Trees beginning 3830' from DER, 708' right of centerline, up to 660' MSL.
Trees beginning 3857' from DER, 45' left of centerline, up to 76' AGL/590' MSL.
CON'T

CINCINNATI, OH (CON'T)

CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK) (CON'T)

Rwy 25 (CON'T), trees, transmission line beginning 3872' from DER, 175' right of centerline, up to 672' MSL.
Trees beginning 3896' from DER, 286' right of centerline, up to 708' MSL.
Trees beginning 3975' from DER, 159' right of centerline, up to 715' MSL.
Tree 4033' from DER, 1524' right of centerline, 721' MSL.
Trees beginning 4037' from DER, 167' left of centerline, up to 45' AGL/594' MSL.
Trees beginning 4049' from DER, 273' right of centerline, up to 740' MSL.
Trees, terrain beginning 4073' from DER, 495' right of centerline, up to 761' MSL.
Trees, terrain beginning 4096' from DER, 19' right of centerline, up to 779' MSL.
Tree 4104' from DER, 56' left of centerline, 87' AGL/600' MSL.
Trees beginning 4115' from DER, 554' left of centerline, up to 645' MSL.
Trees beginning 4139' from DER, 145' left of centerline, up to 106' AGL/651' MSL.
Trees beginning 4166' from DER, 270' left of centerline, up to 91' AGL/689' MSL.
Trees beginning 4184' from DER, 79' left of centerline, up to 77' AGL/704' MSL.
Trees beginning 4236' from DER, 172' left of centerline, up to 707' MSL.
Trees, terrain beginning 4284' from DER, 28' right of centerline, up to 800' MSL.
Trees beginning 4322' from DER, 30' left of centerline, up to 74' AGL/733' MSL.
Tree 4360' from DER, 520' left of centerline, 769' MSL.
Trees beginning 4374' from DER, 111' left of centerline, up to 780' MSL.
Trees beginning 4504' from DER, 482' left of centerline, up to 788' MSL.
Tree, terrain beginning 4512' from DER, 66' left of centerline, up to 797' MSL.
Trees, terrain, building beginning 4523' from DER, 39' right of centerline, up to 807' MSL.
Trees, buildings, terrain beginning 4690' from DER, 21' left of centerline, up to 814' MSL.
Tree, building, terrain beginning 4706' from DER, 81' right of centerline, up to 817' MSL.
Tree, terrain beginning 4830' from DER, 256' right of centerline, up to 825' MSL.
Trees, building, terrain beginning 4879' from DER, 137' right of centerline, up to 831' MSL.
Trees, terrain beginning 4939' from DER, 44' right of centerline, up to 843' MSL.
Tree 4974' from DER, 1637' left of centerline, 835' MSL.
Trees, terrain, buildings beginning 4980' from DER, 37' left of centerline, up to 862' MSL.
Trees beginning 5078' from DER, 340' right of centerline, up to 862' MSL.
Trees beginning 5134' from DER, 39' right of centerline, up to 864' MSL.
Trees, pole beginning 5206' from DER, 47' left of centerline, up to 869' MSL.
Trees beginning 5255' from DER, 292' right of centerline, up to 869' MSL.
Trees, transmission line beginning 5301' from DER, 136' right of centerline, up to 870' MSL.
Trees, transmission line beginning 5319' from DER, 36' right of centerline, up to 877' MSL.
Trees, terrain, buildings beginning 5394' from DER, 43' right of centerline, up to 903' MSL.
Trees, building beginning 5507' from DER, 44' left of centerline, up to 894' MSL.
Trees, building, terrain, transmission line beginning 5706' from DER, 22' right of centerline, up to 914' MSL.
Trees, building beginning 5741' from DER, 30' left of centerline, up to 903' MSL.
Trees, buildings, terrain, transmission line beginning 5849' from DER, 38' right of centerline, up to 919' MSL.
Trees beginning 1 NM from DER, 1108' right of centerline, up to 925' MSL.
Trees beginning 1 NM from DER, 34' right of centerline, up to 928' MSL.
Tree, building, transmission line, terrain beginning 1 NM from DER, 22' right of centerline, up to 932' MSL.
Trees, terrain, buildings, transmission line, tower, antenna beginning 1 NM from DER, 16' left of centerline, up to 917' MSL.
Trees, building, terrain, transmission line beginning 1.1 NM from DER, 3' right of centerline, up to 943' MSL.
Tank, trees beginning 1.4 NM from DER, 1580' right of centerline, up to 200' AGL/1024' MSL.
Tank, trees, terrain, buildings, transmission line beginning 1.4 NM from DER, 16' right of centerline, up to 1045' MSL.
Trees, transmission line, terrain, building beginning 1.4 NM from DER, 1' left of centerline, up to 919' MSL.
Trees, terrain, buildings, pole, beginning 1.5 NM from DER, 10' left of centerline, up to 926' MSL.
Tower 2.5 NM from DER, 2048' left of centerline, 158' AGL/885' MSL.

CIRCLEVILLE, OH

PICKAWAY COUNTY MEMORIAL (CYO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13NOV14 (14317) (FAA)

DEPARTURE PROCEDURE:
Rwy 1, climb heading 008° to 1300 before turning left.

TAKEOFF MINIMUMS:
Rwy 1, vehicle on road beginning 7' from DER, 447' right of centerline, up to 15' AGL/697' MSL.
Runway end identifier light with electrical system 41' from DER, 79' right of centerline, 5' AGL/687' MSL.
Runway end identifier light with electrical system 42' from DER, 82' left of centerline, 3' AGL/687' MSL.
Fence beginning 177' from DER, 250' left of centerline, up to 12' AGL/694' MSL.
Poles beginning 345' from DER, 518' right of centerline, up to 42' AGL/721' MSL.
Vehicle on road beginning 649' from DER, 16' left of centerline, up to 15' AGL/703' MSL.
Pole 667' from DER, 521' left of centerline, 29' AGL/711' MSL.
Tree 1887' from DER, 184' right of centerline, 54' AGL/740' MSL.
Tree 2251' from DER, 189' left of centerline, 59' AGL/745' MSL.
Rwy 19, terrain beginning 108' from DER, 267' right of centerline, up to 669' MSL.
Trees beginning 261' from DER, 64' left of centerline, up to 100' AGL/755' MSL.
Trees beginning 765' from DER, 99' right of centerline, up to 100' AGL/737' MSL.

CLEVELAND, OH

BURKE LAKEFRONT (BKL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 01FEB18 (18032) (FAA)

TAKEOFF MINIMUMS:

Rwy 6L, 200-1¼ or std. w/min. climb of 220' per NM to 900.
Rwy 6R, 300-1½ or std. w/min. climb of 290' per NM to 1000.
Rwy 24L, 400-1⅜ or std. w/min. climb of 757' per NM to 1000.
Rwy 24R, 200-1 or std. w/min. climb of 490' per NM to 900.

DEPARTURE PROCEDURE:

Rwys 6L/R, climbing left turn to 2000 on heading 350° to intercept CXR VOR/DME R-286 to CRIBS intersection before proceeding on course.
Rwys 24L/R, climbing right turn to 2000 on heading 350° to intercept CXR VOR/DME R-286 to CRIBS intersection before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 6L, lighting 9' from DER, 54' left and right of centerline, 2' AGL/584' MSL.
Tree 842' from DER, 720' right of centerline, 622' MSL.
Pole 964' from DER, 235' left of centerline, 24' AGL/618' MSL.
Crane 969' from DER, 589' right of centerline, 73' AGL/641' MSL.
Tree 2294' from DER, 265' right of centerline, 650' MSL.
Poles and tree beginning 2303' from DER, 222' right of centerline, up to 84' AGL/665' MSL.
Poles, tree and transmission line beginning 2327' from DER, 166' right of centerline, up to 90' AGL/674' MSL.
Buildings and bridge beginning 2682' from DER, 597' right of centerline, up to 124' AGL/704' MSL.
Tower 1 NM from DER, 1347' right of centerline, 150' AGL/758' MSL.
Rwy 6R, sign and lighting beginning 27' from DER, 89' left of centerline, up to 4' AGL/585' MSL.
Lighting 41' from DER, 89' right of centerline, 3' AGL/585' MSL.
Wind indicator 175' from DER, 242' left of centerline, 11' AGL/590' MSL.
Pole 177' from DER, 241' left of centerline, 14' AGL/594' MSL.
Pole 471' from DER, 612' right of centerline, 37' AGL/617' MSL.
Poles and sign beginning 626' from DER, 595' right of centerline, up to 37' AGL/618' MSL.
Poles beginning 1009' from DER, 569' right of centerline, up to 56' AGL/637' MSL.
Pole and dome beginning 1874' from DER, 568' right of centerline, up to 70' AGL/651' MSL.
Poles 3098' from DER, 1282' right of centerline, 708' MSL.
Transmission lines, pole and building beginning 3720' from DER, 96' right of centerline, up to 93' AGL/714' MSL.
Tower, poles and building beginning 4310' from DER, 170' right of centerline, up to 106' AGL/737' MSL.
Antenna and tower beginning 1.2 NM from DER, 2237' right of centerline, up to 170' AGL/794' MSL.
Tower 1.2 NM from DER, 1827' right of centerline, 227' AGL/849' MSL.
Rwy 24L, poles beginning 8' from DER, 28' left and right of centerline, up to 1' AGL/581' MSL.
Lighting beginning 10' from DER, 29' left and right of centerline, 2' AGL/582' MSL.
Fence 184' from DER, 451' left of centerline, 9' AGL/590' MSL.
Building 197' from DER, 502' left of centerline, 27' AGL/610' MSL.
Building and tank beginning 213' from DER, 411' left of centerline, up to 30' AGL/613' MSL.
NAVAID 245' from DER, 499' right of centerline, 9' AGL/587' MSL.
Pole 900' from DER, 621' left of centerline, 60' AGL/628' MSL.
Crane, poles and ship beginning 1038' from DER, 38' left of centerline, up to 85' AGL/653' MSL.
Pole 1319' from DER, 161' right of centerline, 64' AGL/632' MSL.
Buildings beginning 1685' from DER, 643' left of centerline, 169' AGL/741' MSL.
Buildings, dome, pole and ship beginning 1748' from DER, 367' left of centerline, up to 167' AGL/745' MSL.
Ship 2146' from DER, 90' right of centerline, 65' AGL/637' MSL.
Windmills beginning 2340' from DER, 1119' left of centerline, up to 152' AGL/750' MSL.
Stadium and cranes beginning 2821' from DER, 317' left of centerline, up to 176' AGL/763' MSL.
Building, ships, crane, elevator, bridge beginning 5056' from DER, 207' left of centerline, up to 275' AGL/896' MSL.
Rwy 24R, lighting and sign beginning 10' from DER, 55' left and right of centerline, up to 2' AGL/582' MSL.
Pole and ship beginning 1514' from DER, 338' left of centerline, up to 64' AGL/632' MSL.
Pole and ship beginning 2324' from DER, 866' left of centerline, up to 86' AGL/654' MSL.
Stadium and cranes beginning 3015' from DER, 816' left of centerline, up to 176' AGL/763' MSL.
Crane 5727' from DER, 1699' right of centerline, 152' AGL/731' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 01FEB18 (18032) (FAA)

Rwy 6L, heading as assigned by ATC; requires min. climb of 220' per NM to 900.
Rwy 6R, heading as assigned by ATC; requires min. climb of 290' per NM to 1000.
Rwy 24R, heading as assigned by ATC; requires min. climb of 490' per NM to 900.

CLEVELAND, OH (CON'T)

CLEVELAND-HOPKINS INTL (CLE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 16A 24MAY18 (18144) (FAA)

DEPARTURE PROCEDURE:

Rwys 6R, 6L, 10, climbing left turn to intercept DJB VOR/DME R-082 inbound to 2600 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10, tree 828' from DER, 656' right of centerline, 821' MSL.
Tree 880' from DER, 662' right of centerline, 830' MSL.
Sign 906' from DER, 717' left of centerline, 28' AGL/830' MSL.
Pole 1415' from DER, 785' right of centerline, 48' AGL/842' MSL.
Sign 2149' from DER, 955' left of centerline, 59' AGL/857' MSL.
Tower 3826' from DER, 1455' right of centerline, 137' AGL/922' MSL.
Rwy 24L, tree 1903' from DER, 492' left of centerline, 69' AGL/839' MSL.
Trees beginning 1959' from DER, 19' left of centerline, up to 78' AGL/848' MSL.
Pole, tree beginning 2273' from DER, 4' left of centerline, up to 79' AGL/849' MSL.
Rwy 24R, tower 2565' from DER, 1028' right of centerline, 191' AGL/870' MSL.
Tree 3653' from DER, 1047' left of centerline, 103' AGL/863' MSL.
Tree 3754' from DER, 861' left of centerline, 98' AGL/868' MSL.
Rwy 28, tree, building beginning 80' from DER, 424' right of centerline, up to 788' MSL.
Trees beginning 890' from DER, 212' right of centerline, up to 803' MSL.
Trees beginning 1042' from DER, 26' right of centerline, up to 811' MSL.
Tree 1250' from DER, 107' left of centerline, 813' MSL.
Building, trees beginning 1267' from DER, 66' left of centerline, up to 92' AGL/851' MSL.
Pole 2970' from DER, 947' right of centerline, 82' AGL/842' MSL.

CUYAHOGA COUNTY (CGF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 08NOV18 (18312) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 6, terrain 86' from DER, 56' right of centerline, 878' MSL.
Terrain beginning 105' from DER, 26' left of centerline, up to 878' MSL.
Terrain 141' from DER, 37' right of centerline, 879' MSL.
Tree 1757' from DER, 929' left of centerline, 938' MSL.
Trees beginning 2163' from DER, 1008' right of centerline, up to 975' MSL.
Tree 2300' from DER, 1104' left of centerline, 961' MSL.
Trees beginning 2917' from DER, 105' right of centerline, up to 980' MSL.
Trees beginning 3607' from DER, 59' right of centerline, up to 982' MSL.
Rwy 24, pole 423' from DER, 423' right of centerline, 38' AGL/895' MSL.
NAVAID 530' from DER, 195' left of centerline, 19' AGL/894' MSL.
Tree, building beginning 617' from DER, 603' left of centerline, up to 940' MSL.
Tree 1141' from DER, 716' left of centerline, 945' MSL.
Trees beginning 1289' from DER, 555' left of centerline, up to 956' MSL.
Trees beginning 1366' from DER, 438' left of centerline, up to 970' MSL.
Trees beginning 1896' from DER, 95' left of centerline, up to 974' MSL.
Tree 1992' from DER, 76' right of centerline, 944' MSL.
Tree 2149' from DER, 8' right of centerline, 945' MSL.
Tree 3504' from DER, 31' right of centerline, 975' MSL.
Trees beginning 3616' from DER, 164' right of centerline, up to 979' MSL.
Tree 3714' from DER, 409' left of centerline, 975' MSL.
Tree 4153' from DER, 4' left of centerline, 980' MSL.

COLUMBUS, IN

COLUMBUS MUNI (BAK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25SEP08 (08269) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 1589' from DER, 306' right of centerline, 40' AGL/696' MSL.

COLUMBUS, OH

BOLTON FIELD (TZR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)

DEPARTURE PROCEDURE:
Rwy 4, climb heading 037° to 1800 before turning east.

TAKEOFF OBSTACLE NOTES:
Rwy 4, tree 1091' from DER, 770' left of centerline, 53' AGL/959' MSL.
Tree 487' from DER, 356' right of centerline, 23' AGL/929' MSL.
Tree 1317' from DER, 452' right of centerline, 42' AGL/948' MSL.
Tree 1307' from DER, 50' left of centerline, 36' AGL/942' MSL.
Tree 1927' from DER, 135' right of centerline, 49' AGL/955' MSL.
Rwy 22, tree 1273' from DER, 720' right of centerline, 40' AGL/945' MSL.
Tree 712' from DER, 662' right of centerline, 25' AGL/927' MSL.
Tree 1411' from DER, 658' right of centerline 33' AGL/939' MSL.

JOHN GLENN COLUMBUS INTL (CMH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 7A 17AUG17 (17229) (FAA)

DEPARTURE PROCEDURE:
Rwy 28L, climb heading 281° to 2100 before turning southbound.
Rwy 28R, climb heading 281° to 2000 before turning southbound.

TAKEOFF OBSTACLE NOTES:
Rwy 10L, sign 23' from DER, 348' right of centerline, 3' AGL/813' MSL.
Trees beginning 1308' from DER, 800' left of centerline, up to 79' AGL/869' MSL.
Trees beginning 1721' from DER, 764' right of centerline, up to 88' AGL/878' MSL.
Rwy 10R, aircraft on taxiway abeam DER, 290' right of centerline, up to 59' AGL/878' MSL.
Sign 42' from DER, 159' left of centerline, 6' AGL/817' MSL.
Poles and building beginning 934' from DER, 538' right of centerline, up to 42' AGL/852' MSL.
Trees beginning 1319' from DER, 225' right of centerline, up to 116' AGL/886' MSL.
Rwy 28L, building 42' from DER, 111' right of centerline, 6' AGL/810' MSL.
Trees beginning 1563' from DER, 870' left of centerline, up to 93' AGL/902' MSL.
Rwy 28R, tower 1260' from DER, 837' left of centerline, 75' AGL/875' MSL.
Trees and poles beginning 1228' from DER, 624' right of centerline, up to 72' AGL/882' MSL.
Light 5' from DER, 4' left of centerline, 1' AGL/815' MSL.

OHIO STATE UNIVERSITY (OSU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10MAR11 (11069) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 1461' from DER, 48' left of centerline, up to 76' AGL/955' MSL.
Trees beginning 1422' from DER, 157' right of centerline, up to 86' AGL/965' MSL.
Rwy 9L, trees beginning 1017' from DER, 122' left of centerline, up to 86' AGL/965' MSL.
Trees beginning 2001' from DER, 1015' right of centerline, up to 91' AGL/965' MSL.
Rwy 9R, trees beginning 197' from DER, 325' left of centerline, up to 73' AGL/937' MSL.
Trees beginning 973' from DER, 339' right of centerline, up to 103' AGL/957' MSL.
Rwy 14, wind sock 371' from DER, 273' left of centerline, 10' AGL/909' MSL.
Tree 1395' from DER, 872' left of centerline, 46' AGL/935' MSL.
Tree 2071' from DER, 295' right of centerline, 95' AGL/974' MSL.
Rwy 23, stacks beginning 681' from DER, 512' left of centerline, up to 64' AGL/963' MSL.
Trees beginning 709' from DER, 321' left of centerline, up to 44' AGL/948' MSL.
Elevator 1406' from DER, 469' left of centerline, 83' AGL/978' MSL.
Trees beginning 1248' from DER, 68' right of centerline, up to 74' AGL/978' MSL.
Rwy 27R, silos beginning 2476' from DER, 88' left of centerline, 61' AGL/971' MSL.
Rwy 32, trees beginning 1616' from DER, 210' left of centerline, up to 99' AGL/1003' MSL.

CONNERSVILLE, IN

METTEL FIELD (CEV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 28SEP06 (06271) (FAA)

TAKEOFF MINIMUMS:
Rwys 4, 22, NA-VFR use only.

DEPARTURE PROCEDURE:
Rwy 18, climb via heading 185° to 1500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 18, railroad 311' from DER, 580' left of centerline, 23' AGL/882' MSL.
Multiple trees beginning 2280' from DER, 100' left of centerline, up to 113' AGL/974' MSL.
Rwy 36, road 120' from DER, 301' right of centerline, 15' AGL/884' MSL.
Railroad 649' from DER, 578' right of centerline, 23' AGL/892' MSL.
Multiple trees beginning 3400' from DER, on centerline, up to 92' AGL/959' MSL.

COSHOCTON, OH

RICHARD DOWNING (I40)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 15SEP16 (16259) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 22, 300-1.

TAKEOFF OBSTACLE NOTES:

Rwy 4, tree 87'from DER, 402' left of centerline, 981' MSL.
Trees beginning 88' from DER, 460' left of centerline, up to 84' AGL/1040' MSL.
Tree 90' from DER, 226' right of centerline, 983' MSL.
Tree 628' from DER, 509' right of centerline, 1006' MSL.
Rwy 22, trees beginning 2' from DER, 290' left of centerline, up to 988' MSL.
Pole, wsk beginning 11' from DER, 57' right of centerline, up to 7' AGL/979' MSL.
Trees beginning 179' from DER, 275' left of centerline, up to 84' AGL/999' MSL.
Trees beginning 1033' from DER, 595' left of centerline, up to 1042' MSL.
Tree 2420' from DER, 123' right of centerline, 96' AGL/1035' MSL.
Tree 2442' from DER, 52' right of centerline, 104' AGL/1043' MSL.
Trees beginning 2443' from DER, 21' right of centerline, up to 106' AGL/1050' MSL.
Trees beginning 2496' from DER, 3' left of centerline, up to 103' AGL/1045' MSL.
Trees beginning 2503' from DER, on centerline, up to 103' AGL/1054' MSL.
Trees beginning 2550' from DER, 43' right of centerline, up to 105' AGL/1061' MSL.

CRAWFORDSVILLE, IN

CRAWFORDSVILLE RGNL (CFJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 08NOV18 (18312) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 4, poles beginning 805' from DER, 224' right of centerline, up to 27' AGL/829' MSL.
Tree 2838' from DER, 256' right of centerline, 873' MSL.
Poles, terrain, vehicle on road, tree beginning 41' from DER, 54' left of centerline, up to 30' AGL/834' MSL.
Tree 822' from DER, 95' left of centerline, 841' MSL.
Trees beginning 856' from DER, 123' left of centerline, up to 843' MSL.
Trees beginning 957' from DER, 213' left of centerline, up to 849' MSL.
Tree 1055' from DER, 283' left of centerline, 850' MSL.
Tree 1229' from DER, 418' left of centerline, 853' MSL.
Tree 1312' from DER, 168' left of centerline, 873' MSL.
Trees beginning 1324' from DER, 268' left of centerline, up to 875' MSL.
Trees beginning 1559' from DER, 283' left of centerline, up to 876' MSL.
Trees beginning 1862' from DER, 219' left of centerline, up to 881' MSL.
Rwy 22, tree 653' from DER, 618' right of centerline, 846' MSL.
Trees beginning 789' from DER, 205' right of centerline, up to 852' MSL.
Trees beginning 1059' from DER, 191' right of centerline, up to 857' MSL.
Trees beginning 2797' from DER, 386' right of centerline, up to 879' MSL.
Tree 328' from DER, 508' left of centerline, 815' MSL.
Trees beginning 559' from DER, 176' left of centerline, up to 867' MSL.

DAYTON, OH

DAYTON-PHILLIPSBURG (3I7)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 16AUG18 (18228) (FAA)

TAKEOFF MINIMUMS:

Rwy 21, 300-1.

DAYTON-WRIGHT BROTHERS (MGY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 21JUL16 (16203) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 2, multiple trees and road beginning 440' from DER, 257' left of centerline, up to 100' AGL/1053' MSL.
Multiple trees beginning 672' from DER, 17' right of centerline, up to 100' AGL/1017' MSL.
Rwy 20, multiple trees beginning 189' from DER, 494' left of centerline, up to 100' AGL/1009' MSL.
Multiple poles and trees beginning 323' from DER, 364' right of centerline, up to 100' AGL/1026' MSL.
Building 1195' from DER, 512' right of centerline, 50' AGL/972' MSL.

DAYTON, OH (CON'T)

GREENE COUNTY-LEWIS A JACKSON RGNL (I19)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Rwy 25, climb heading 225° to 1700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees, wind indicator beginning 20' from DER, 133' right of centerline, up to 59' AGL/999' MSL.
Tree 73' from DER, 264' left of centerline, 983' MSL.
Trees beginning 111' from DER, 165' left of centerline, up to 986' MSL.
Trees beginning 642' from DER, 329' right of centerline, up to 1016' MSL.
Trees beginning 2361' from DER, 945' right of centerline, up to 1028' MSL.
Rwy 25, trees beginning 62' from DER, 200' right of centerline, up to 996' MSL.
Trees beginning 114' from DER, 26' left of centerline, up to 82' AGL/982' MSL.
Trees beginning 185' from DER, 3' right of centerline, up to 998' MSL.
Tree 355' from DER, 111' left of centerline, 992' MSL.
Trees beginning 388' from DER, 5' left of centerline, up to 995' MSL.
Trees beginning 1241' from DER, 82' left of centerline, up to 998' MSL.
Tree 1516' from DER, 171' left of centerline, 1000' MSL.
Transmission line, trees, poles beginning 1537' from DER, 22' left of centerline, up to 120' AGL/1009' MSL.
Trees beginning 1897' from DER, 59' right of centerline, up to 1002' MSL.
Pole 1897' from DER, 216' left of centerline, 148' AGL/1052' MSL.
Transmission line 1924' from DER, 194' left of centerline, 150' AGL/1054' MSL.
Trees beginning 2041' from DER, 108' right of centerline, up to 127' AGL/1011' MSL.

JAMES M COX DAYTON INTL (DAY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 27APR17 (17117) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, 300-1 or std. w/min. climb of 305 per NM to 1300.

TAKEOFF OBSTACLE NOTES:

Rwy 6R, tower 3128' from DER, 1114' right of centerline, 140' AGL/1101' MSL.
Rwy 18, trees beginning 1033' from DER, 77' right of centerline, up to 1048' MSL.
Tree 1047' from DER, 38' left of centerline, 1039' MSL.
Tree 1049' from DER, 326' left of centerline, 1040' MSL.
Tree 1050' from DER, 437' left of centerline, 1041' MSL.
Trees beginning 1051' from DER, 192' left of centerline, up to 1047' MSL.
Wind indicator on building, steeple, pole, ant on building, tree beginning 1141' from DER, 195' left of centerline, up to 1049' MSL.
Trees beginning 1378' from DER, 325' left of centerline, up to 1056' MSL.
Trees beginning 1618' from DER, 244' left of centerline, up to 1060' MSL.
Tree 1631' from DER, 558' right of centerline, 1054' MSL.
Tree 1711' from DER, 185' left of centerline, 1066' MSL.
Trees beginning 1785' from DER, 311' left of centerline, up to 1072' MSL.
Trees beginning 1825' from DER, 210' left of centerline, up to 74' AGL/1079' MSL.
Tree 1832' from DER, 563' right of centerline, 1060' MSL.
Trees beginning 2013' from DER, 139' right of centerline, up to 1072' MSL.
Trees beginning 2322' from DER, 958' right of centerline, up to 1073' MSL.
Tree 2378' from DER, 916' left of centerline, 1089' MSL.
Trees beginning 2379' from DER, 141' left of centerline, up to 96' AGL/1095' MSL.
Tree 2574' from DER, 1075' right of centerline, 1094' MSL.
Tree 2578' from DER, 1098' right of centerline, 89' AGL/1096' MSL.
Trees beginning 2923' from DER, 412' left of centerline, up to 1098' MSL.
Tank 4227' from DER, 1469' left of centerline, 184' AGL/1168' MSL.
Rwy 24L, vehicles on road 200' from DER, crossing runway centerline, up to 15' AGL/1021' MSL.
Tree 992' from DER, 522' left of centerline, 1049' MSL.
Tree 1139' from DER, 740' left of centerline, 1056' MSL.
Trees beginning 1722' from DER, 527' left of centerline, up to 1061' MSL.
Rwy 36, airfield light beginning 5' from DER, 4' right of centerline, up to 2' AGL/992' MSL.
Tree 1947' from DER, 939' left of centerline, 1040' MSL.

DEFIANCE, OH

DEFIANCE MEMORIAL (DFI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10MAR11 (11069) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 12, trees beginning 398' from DER, 155' right of centerline, up to 50' AGL/749' MSL.
Terrain beginning 62' from DER, 1' right of centerline, up to 706' MSL.
Vehicle on road 833' from DER, 286' left of centerline, up to 15' AGL/724' MSL.
Rwy 30, trees and power lines beginning 527' from DER, beginning 246' left to right of centerline, up to 50' AGL/759' MSL. Vehicle on road beginning 527' from DER, 246' left to right of centerline, up to 15' AGL/724' MSL.
Terrain beginning 36' from DER, 17' right of centerline, up to 712' MSL.
Terrain beginning 116' from DER, 353' left of centerline, up to 712' MSL.

DELAWARE, OH

DELAWARE MUNI-JIM MOORE FIELD (DLZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JAN17 (17005) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 10, tree 884' from DER, 717' left of centerline, 1014' MSL.
Transmission line/tower 1179' from DER, 289' right of centerline, 48' AGL/987' MSL.
Tree 1808' from DER, 506' left of centerline, 996' MSL.
Rwy 28, windsock 7' from DER, 443' right of centerline, 9' AGL/950' MSL.
Ground 35' from DER, 189' left of centerline, 950' MSL.
Transmission line/tower 992' from DER, 699' left of centerline, 61' AGL/1005' MSL.
Transmission line/tower 987' from DER, 599' left of centerline, 45' AGL/987' MSL.
Transmission line/tower 1126' from DER, 695' right of centerline, 45' AGL/988' MSL.
Tree 1233' from DER, 742' right of centerline, 990' MSL.

EAST LIVERPOOL, OH

COLUMBIANA COUNTY (02G)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 25, 600-1¾ or std. w/min. climb gradient of 445' per NM to 1700.

DEPARTURE PROCEDURE:

Rwy 25, climb heading of 249° to 1700 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees beginning abeam DER, 392' left of centerline, up to 71' AGL/1224' MSL.
Tree 156' from DER, 449' right of centerline, 1205' MSL.
Trees beginning 164' from DER, 11' left of centerline, up to 101' AGL/1231' MSL.
Trees beginning 182' from DER, 75' right of centerline, up to 1218' MSL.
Trees beginning 1892' from DER, 635' right of centerline, up to 1219' MSL.
Tree 2212' from DER, 850' right of centerline, 1221' MSL.
Tree 2338' from DER, 840' right of centerline, 1224' MSL.
Tree 2859' from DER, 506' left of centerline, 1236' MSL.
Rwy 25, ground 7' from DER, 401' right of centerline, 1152' MSL.
Ground beginning 104' from DER, 297' right of centerline, up to 1159' MSL.
Ground 118' from DER, 256' left of centerline, 1148' MSL.
Trees beginning 141' from DER, 28' left of centerline, up to 82' AGL/1226' MSL.
Trees beginning 899' from DER, 84' right of centerline, up to 1220' MSL.
Tree 3443' from DER, 611' right of centerline, 1240' MSL.
Tree 3499' from DER, 359' right of centerline, 1242' MSL.
Tree 3531' from DER, 1397' right of centerline, 1247' MSL.
Tree 3533' from DER, 935' right of centerline, 1276' MSL.
Trees beginning 3535' from DER, 161' right of centerline, up to 1287' MSL.
Trees beginning 3653' from DER, 391' right of centerline, up to 1288' MSL.
Trees beginning 3701' from DER, 61' right of centerline, up to 1290' MSL.
Trees beginning 3748' from DER, 231' right of centerline, up to 1315' MSL.
Tree 3748' from DER, 891' right of centerline, 1298' MSL.
Trees beginning 3801' from DER, 44' right of centerline, up to 1322' MSL.
Trees beginning 3854' from DER, 358' right of centerline, up to 1332' MSL.
Tree, ground beginning 3907' from DER, 282' right of centerline, up to 1350' MSL.
Trees beginning 4863' from DER, 804' left of centerline, up to 1279' MSL.
Trees beginning 5051' from DER, 651' left of centerline, up to 1292' MSL.
Trees beginning 5174' from DER, 546' left of centerline, up to 1296' MSL.
Trees beginning 5280' from DER, 328' left of centerline, up to 1311' MSL.
Trees beginning 5491' from DER, 59' left of centerline, up to 1316' MSL.
Trees beginning 5860' from DER, 639' right of centerline, up to 1353' MSL.
Trees beginning 5860' from DER, 120' right of centerline, up to 1355' MSL.
Trees beginning 5966' from DER, 1071' right of centerline, up to 1356' MSL.
Trees beginning 6019' from DER, 795' right of centerline, up to 1357' MSL.
Trees beginning 6072' from DER, 15' right of centerline, up to 1364' MSL.
Trees beginning 6072' from DER, 203' right of centerline, up to 1365' MSL.
Trees beginning 1 NM from DER, 26' right of centerline, up to 1389' MSL.
Trees beginning 1 NM from DER, 25' left of centerline, up to 1325' MSL.
Trees beginning 1 NM from DER, 332' right of centerline, up to 1393' MSL.
Trees beginning 1 NM from DER, 84' right of centerline, up to 1406' MSL.
Tree, ground beginning 1 NM from DER, 430' right of centerline, up to 76' AGL/1418' MSL.
Trees beginning 1 NM from DER, 943' right of centerline, up to 1416' MSL.
Transmission tower, tree, ground beginning 1.1 NM from DER, 687' right of centerline, up to 122' AGL/1450' MSL.
Tree 1.4 NM from DER, 2655' left of centerline, 1359' MSL.
Tree 1.4 NM from DER, 2747' left of centerline, 1360' MSL.

ELKHART, IN

ELKHART MUNI (EKM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22SEP11 (11265) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, trees beginning 2039' from DER, 768' right of centerline, up to 68' AGL/845' MSL.
Trees beginning 2649' from DER, 774' left of centerline, up to 90' AGL/867' MSL.
Rwy 18, trees and spire beginning 592' from DER, 63' right of centerline, up to 63' AGL/835' MSL.
Trees beginning 508' from DER, 87' left of centerline, up to 71' AGL/843' MSL.
Rwy 27, trees beginning 1195' from DER, 241' right of centerline, up to 90' AGL/861' MSL.
Trees beginning 1714' from DER, 49' left of centerline, up to 89' AGL/860' MSL.
Rwy 36, tree and building beginning 845' from DER, 212' right of centerline, up to 58' AGL/836' MSL.
Trees beginning1193' from DER, 240' left of centerline, up to 61' AGL/839' MSL.

ELYRIA, OH

ELYRIA (1G1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKEOFF OBSTACLE NOTES:

Rwy 9, road 1198' from DER, 275' left of centerline, 15' AGL/774' MSL.
Tree 2077' from DER, 778' right of centerline, 100' AGL/859' MSL.
Rwy 27, tree 68' from DER, 237' left of centerline, 100' AGL/859' MSL.
Tree 527' from DER, 454' right of centerline, 100' AGL/854' MSL.

EVANSVILLE, IN

EVANSVILLE RGNL (EVV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 9 16OCT14 (14289) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, 300-1 or std. w/min. climb of 650' per NM to 700.
Rwy 27, 300-1¾ or std. w/min. climb of 402' per NM to 800.
Rwy 36, 300-1½ or std. w/min. climb of 615' per NM to 700.

TAKEOFF OBSTACLE NOTES:

Rwy 9, fence 293' from DER, 294' right of centerline, 9' AGL/399' MSL.
Train on railroad tracks and vehicles on roadway beginning 610' from DER, 291' right of centerline, up to 23' AGL/424' MSL.
Building 1446' from DER, 84' right of centerline, 37' AGL/445' MSL.
Trees and vehicles on roadway beginning 2070' from DER, 905' right of centerline, up to 100' AGL/583' MSL.
Trees beginning 3093' from DER, 385' left of centerline, up to 91' AGL/516' MSL.
Trees beginning 4145' from DER, 1575' right of centerline, up to 100' AGL/509' MSL.
Rwy 18, electrical system 10' from DER, 80' right of centerline, 13' AGL/396' MSL.
Vehicles on roadway beginning 265' from DER, left and right of centerline, up to 15' AGL/398' MSL.
Trains on railroad tracks beginning 328' from DER, 17' left of centerline, up to 23' AGL/412' MSL.
Buildings beginning 560' from DER, 137' right of centerline, up to 53' AGL/447' MSL.
Trees beginning 1595' from DER, 162' left of centerline, up to 51' AGL/433' MSL.
Tower 4136' from DER, 1569' left of centerline, 132' AGL/513' MSL.
Rwy 22, weather sensor 141' from DER, 458' left of centerline, 18' AGL/458' MSL.
GS building 146' from DER, 401' left of centerline, 10' AGL/392' MSL.
Tower 165' from DER, 399' left of centerline, 45' AGL/429' MSL.
Aircraft on taxiway beginning 1305' from DER, 833' right of centerline, up to 70' AGL/452' MSL.
Rwy 27, vehicles on roadway and trains on railroad tracks beginning 295' from DER, left and right of centerline, up to 23' AGL/407' MSL.
Sign 389' from DER, 228' right of centerline, 21' AGL/401' MSL.
Pole and trees beginning 710' from DER, left and right of centerline, up to 102' AGL/559' MSL.
Trees beginning 4114' from DER, left and right of centerline, up to 124' AGL/617' MSL.
Towers beginning 1.3 NM from DER, 1157' left of centerline, up to 181' AGL/649' MSL.
Trees beginning 1.33 NM from DER, 442' left of centerline, up to 112' AGL/610' MSL.
Rwy 36, trees beginning 1389' from DER, 702' left of centerline, up to 100' AGL/539' MSL.
Trees beginning 2160' from DER, 479' right of centerline, up to 105' AGL/567' MSL.
Trees beginning 4224' from DER, 1025' right of centerline, up to 110' AGL/597' MSL.
Trees beginning 6131' from DER, 1152' right of centerline, up to 126' AGL/618' MSL.
Trees beginning 1.1 NM from DER, 1556' right of centerline, up to 100' AGL/579' MSL.

FINDLAY, OH

FINDLAY (FDY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 06DEC18 (18340) (FAA)

TAKEOFF MINIMUMS:

Rwy 25, 300-1⅝ or std. w/min. climb of 210' per NM to 1100, or alternatively with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1400 feet prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 7, road with vehicles beginning 55' from DER, 308' right of centerline, up to 15' AGL/821' MSL.
Wall, pole beginning 121' from DER, 48' left of centerline, up to 10' AGL/816' MSL.
Tree, road with vehicles, pole beginning 154' from DER, 69' right of centerline, up to 32' AGL/838' MSL.
Road with vehicles beginning 210' from DER, 1' left of centerline, up to 15' AGL/821' MSL.
Trees beginning 279' from DER, 45' right of centerline, up to 33' AGL/839' MSL.
Tree, pole, building beginning 338' from DER, 33' left of centerline, up to 26' AGL/832' MSL.
Tree 1715' from DER, 959' right of centerline, 54' AGL/860' MSL.
Trees beginning 1846' from DER, 407' right of centerline, up to 64' AGL/870' MSL.
Building 2374' from DER, 1054' right of centerline, 110' AGL/916' MSL.
Building, tree, wind indicator beginning 2417' from DER, 109' right of centerline, up to 121' AGL/927' MSL.
Rwy 18, tree 2786' from DER, 150' left of centerline, 876' MSL.
Rwy 25, fence, vegetation beginning 26' from DER, 141' left of centerline, up to 6' AGL/799' MSL.
Road with vehicles beginning 133' from DER, 108' right of centerline, up to 15' AGL/803' MSL.
Sign, tree, pole beginning 473' from DER, 421' right of centerline, up to 64' AGL/852' MSL.
Tree, pole, road with vehicles beginning 785' from DER, 397' right of centerline, up to 15' AGL/802' MSL.
Elevator, tree beginning 1824' from DER, 295' right of centerline, up to 78' AGL/869' MSL.
Trees beginning 2207' from DER, 454' right of centerline, up to 88' AGL/876' MSL.
Elevator 1.2 NM from DER, 1040' right of centerline, 206' AGL/999' MSL.
Elevator 1.3 NM from DER, 1114' right of centerline, 207' AGL/1000' MSL.
Rwy 36, pole 1191' from DER, 742' right of centerline, 39' AGL/835' MSL.
Tree 1559' from DER, 498' left of centerline, 51' AGL/847' MSL.

FORT WAYNE, IN

FORT WAYNE INTL (FWA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 17SEP15 (15260) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, lighted structures beginning 9' from DER, left and right of centerline, up to 3' AGL/800' MSL.
Fence and trees beginning 152' from DER, 521' right of centerline, up to 42' AGL/842' MSL.
Railroad 834' from DER, 582' right of centerline, 23' AGL/820' MSL.
Trees beginning 927' from DER, 499' left of centerline, 40' AGL/836' MSL.
Rwy 9, lighted structures beginning 11' from DER, left and right of centerline, up to 2' AGL/794' MSL.
Pole 86' from DER, 442' right of centerline, 28' AGL/820' MSL.
Pole 380' from DER, 505' right of centerline, 32' AGL/822' MSL.
Tower 3124' from DER, 1109' left of centerline, 111' AGL/910' MSL.
Rwy 14, lighted structures beginning 9' from DER, left and right of centerline, up 2' AGL/797' MSL.
Tree 1079' from DER, 667' left of centerline, 23' AGL/825' MSL.
Rwy 23, lighted structures beginning 8' from DER, left and right of centerline, up to 2' AGL/815' MSL.
Rwy 27, lighted structures beginning 9' from DER, 48' left of centerline, up 2' AGL/800' MSL.
fences beginning 28' from DER, 470' right of centerline, up to 6' AGL/804' MSL.
Tower 194' from DER, 523' left of centerline, 19' AGL/809' MSL.
Obstruction light 370' from DER, 230' left of centerline, 14' AGL/812' MSL.
Trees beginning 3587' from DER, left and right of centerline, up to 104' AGL/910' MSL.
Rwy 32, lighted structures beginning 9' from DER, left and right of centerline, up to 2' AGL/803' MSL.
Trees beginning 3672' from DER, 611' left of centerline, up to 100' AGL/901' MSL.

SMITH FIELD (SMD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 18NOV10 (10322) (FAA)

TAKEOFF MINIMUMS:

Rwy 23, 800-3 or std. with a min. climb of 420' per NM to 1900.

DEPARTURE PROCEDURE:

Rwy 13, climb on heading between 133° CW to 185° from DER or climb on heading between 313° CW to 133° from DER to 2700 before proceeding on course or min. climb of 250' per NM to 2000 for all other courses.
Rwy 23, climb on heading 236° to 1900 before proceeding on course.
Rwy 31, climb on heading between 313° CW to 133° from DER or climb on heading between 250° CW to 313° from DER to 2700 before proceeding on course or min. climb of 250' per NM to 1900 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 5, vehicle on road 465' from DER, on centerline, 15' AGL/844' MSL.
Trees, light poles, flag poles, power poles, buildings, bus garages and cell tower beginning 345' from DER, 34' right of centerline, up to 153' AGL/974' MSL.
Trees, buildings and light poles beginning 234' from DER, 11' left of centerline, up to 72' AGL/896' MSL.

CON'T

FORT WAYNE, IN (CON'T)

SMITH FIELD (SMD) (CON'T)

Rwy 13, vehicle on road 458' from DER, on centerline, 15' AGL/842' MSL.
Trees, houses and light pole beginning 21' from DER, 38' right of centerline, up to 100' AGL/929' MSL.
Trees, buildings, power poles, hanger, terminal, light pole and flag pole beginning 330' from DER, 25' left of centerline, up to 128' AGL/ 936' MSL.
Rwy 23, power poles, light poles, trees, building, house and shed beginning 469' from DER, 6' right of centerline, up to 82' AGL/909' MSL.
Trees, houses and light poles beginning 193' from DER, 43' left of centerline, up to 81' AGL/906' MSL.
Rwy 31, trees, buildings, power poles, garages, light pole and antenna beginning 237' from DER, 30' right of centerline, up to 95' AGL/936' MSL.
Trees and vert tank beginning 488' from DER, 202' left of centerline, up to 73' AGL/910' MSL.

FOSTORIA, OH

FOSTORIA METROPOLITAN (FZI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JUN10 (10154) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 9, trees beginning 343' from DER, 584' left of centerline, up to 74' AGL/823' MSL.
Trees beginning 26' from DER, 277' right of centerline, up to 75' AGL/820' MSL.
Rwy 27, trees beginning 938' from DER, 342' left of centerline, up to 100' AGL/859' MSL.
Trees beginning 379' from DER, 444' right of centerline, up to 64' AGL/806' MSL.
Building 2' from DER, 500' left of centerline, 8' AGL/758' MSL.
Building 262' from DER, 523' right of centerline, 34' AGL/776' MSL.
SILO 292' from DER, 376' right of centerline, 36' AGL/778' MSL.
Pole 898' from DER, 413' right of centerline, 39' AGL/778' MSL.
Power pole 961' from DER, 562' right of centerline, 48' AGL/790' MSL.

FRANKFORT, IN

FRANKFORT MUNI (FKR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 4, vehicles on highway, beginning 148' from DER, left to right of centerline, 17' AGL/894' MSL.
Building 442' from DER, 601' right of centerline, 40' AGL/897' MSL.
Building 606' from DER, 373' left of centerline, 40' AGL/917' MSL.
Plant 3169' from DER, 712' right of centerline, 87' AGL/942' MSL.
Rwy 9, crops 389' from DER, left to right of centerline, 10' AGL/872' MSL.
Rwy 22, crops 200' from DER, left to right of centerline, 10' AGL/867' MSL.
Vehicles on roadway beginning 369' from DER, 583' right of centerline, 17' AGL/876' MSL.
Rwy 27, crops 299' from DER, left to right of centerline, 10' AGL/867' MSL.
Vehicles on roadway 743' from DER, left and right of centerline, 17' AGL/876' MSL.

FREMONT, OH

FREMONT (14G)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 22OCT09 (09295) (FAA)

TAKEOFF MINIMUMS:
Rwys 18,36, NA-Environmental.

TAKEOFF OBSTACLE NOTES:
Rwy 9, train 268' from DER, 516' right of centerline, 23' AGL/677' MSL.
Trees beginning 3269' from DER, 1265' right of centerline, up to 100' AGL/754' MSL.
Multiple trees and buildings beginning 320' from DER, left and right of centerline, up to 100' AGL/749' MSL.
Rwy 27, road 65' from DER, 4' right of centerline, 15' AGL/669' MSL.
Trees beginning 2230' from DER, 834' left of centerline, up to 100' AGL/754' MSL.

SANDUSKY COUNTY RGNL (S24)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25AUG11 (11237) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 6, REILs 39' from DER, 93' right of centerline, 8' AGL/659' MSL.
REILs 39' from DER, 93' left of centerline, 7' AGL/658' MSL.
Trees beginning 796' from DER, 709' left of centerline, up to 91' AGL/737' MSL.
Rwy 24, REILs 41' from DER, 94' right of centerline, 7' AGL/668' MSL.
REILs 41' from DER, 93' left of centerline, 7' AGL/668' MSL.
Trees beginning 1569' from DER, left and right of centerline, up to 145' AGL/786' MSL.

FRENCH LICK, IN

FRENCH LICK MUNI (FRH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10APR08 (08101) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 8, Terrain 59' from DER, 86' left of centerline, 0' AGL/799' MSL.
Trees beginning 184' from DER, 391' left of centerline, up to 100' AGL/889' MSL.
Trees beginning 215' from DER, 148' right of centerline, up to 100' AGL/849' MSL.
Rwy 26, Trees beginning 429' from DER, 90' left of centerline, up to 100' AGL/849' MSL.
Trees beginning 580' from DER, 57' right of centerline, up to 100' AGL/909' MSL.

GALION, OH

GALION MUNI (GQQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25AUG11 (11237) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 354' from DER, 335' right of centerline, up to 50' AGL/1269' MSL.
Rwy 23, vehicles on road beginning 0' from DER, 348' right of centerline, up to 15' AGL/1244' MSL.
Vehicles on road beginning 0' from DER, 362' left of centerline, up to 17' AGL/1236' MSL.
Train and power lines 0' from DER, 351' left of centerline, up to 30' AGL/1252' MSL.
Trees beginning 341' from DER, right and left of centerline, up to 50' AGL/1279' MSL.

GALLIPOLIS, OH

GALLIA-MEIGS RGNL (GAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, 400-2½ or std. w/min. climb of 465' per NM to 1300.
Rwy 23, 300-1 w/min. climb of 350' per NM to 1600 or std. w/min. climb of 460' per NM to 1300 or 1300-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 5, climb heading 55° to 1800 before proceeding on course.
Rwy 23, climb heading 235° to 1200 before proceeding on course.

VCOA:

Rwy 23, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Gallia-Meigs Regional airport at or above 1700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 5, vehicle on road 5' from DER, 391' left of centerline, 17' AGL/586' MSL.
Tree and power poles beginning 72' from DER, 388' right of centerline, up to 100' AGL/669' MSL.
Tree, sign, light pole beginning 99' from DER, 326' left of centerline, up to 100' AGL/659' MSL.
Tree 293' from DER, 409' right of centerline, 100' AGL/669' MSL.
Trees beginning 426' from DER, 346' right of centerline, up to 100' AGL/669' MSL.
Trees, light pole, vehicle on road beginning 438' from DER, 267' left of centerline, up to 100' AGL/669' MSL.
Vehicle on road 935' from DER, on and left of centerline, 17' AGL/586' MSL.
Tree and vehicle on overpass beginning 937' from DER, 440' left of centerline, up to 100' AGL/669' MSL.
Sign 1124' from DER, 285' right of centerline, 30' AGL/599' MSL.
Trees beginning 1297' from DER, 113' right of centerline, up to 100' AGL/669' MSL.
Trees beginning 1.5 NM from DER, 1270' right of centerline, up to 940' MSL.
Rwy 23, vehicles on road, train beginning 2' from DER, 207' right of centerline, up to 15' AGL/594' MSL.
Trees beginning 4' from DER, 451' left of centerline, up to 100' AGL/669' MSL.
Power poles, train 90' from DER, 407' right of centerline, up to 30' AGL/599' MSL.
Vehicles on road beginning 179' from DER, on and left of centerline, up to 15' AGL/575' MSL.
Tree 187' from DER, 424' left of centerline, 100' AGL/669' MSL.
Vehicle on road 551' from DER, 70' left of centerline, 15' AGL/575' MSL.
Buildings beginning 923' from DER, 220' left of centerline, up to 40' AGL/609' MSL.
Power poles, tank, tree beginning 1238' from DER, 510' left of centerline, up to 50' AGL/619' MSL.
Trees beginning 2322' from DER, 1074' right of centerline, up to 100' AGL/699' MSL.

GARY, IN

GARY/CHICAGO INTL (GYY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 25JUN15 (15176) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, 300-1½ or std. with min. climb of 323' per NM to 900.

DEPARTURE PROCEDURE:

Rwy 20, climb heading 203° to 1300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, tree, pole, building and vehicles on road beginning 554' from DER, 264' right of centerline, up to 26' AGL/617' MSL.
Tower 3432' from DER, 1125' right of centerline, 120' AGL/708' MSL.
Stacks and towers beginning 4434' from DER, 1004' right of centerline, up to 201' AGL/791' MSL.
Tree 1489' from DER, 236' left of centerline, 56' AGL/647' MSL.
Towers beginning 4598' from DER, 1080' left of centerline, up to 139' AGL/731' MSL.

CON'T

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GARY, IN (CON'T)

GARY/CHICAGO INTL (GYY) (CON'T)

Rwy 2 (CON'T) stacks and tower beginning 5921' from DER, 460' left of centerline, up to 236' AGL/823' MSL.
Vehicles on road 571' from DER, on runway centerline, 15' AGL/605' MSL.
Rwy 12, trees and poles beginning 790' from DER, 221' right of centerline, up to 86' AGL/685' MSL.
trees beginning 1617' from DER, 743' left of centerline, up to 65' AGL/656' MSL.
Towers beginning 4246' from DER, 444' left of centerline, up to 105' AGL/700' MSL.
Rwy 20, trees and poles beginning 651' from DER, 108' right of centerline, up to 96' AGL/685' MSL.
Trees, poles and vehicles on road beginning 884' from DER, 26' left of centerline, up to 63' AGL/658' MSL.
Vehicles on road 1048' from DER, on runway centerline, 17' AGL/631' MSL.
Rwy 30, tree and poles beginning 2021' from DER, 390' right of centerline, up to 105' AGL/710' MSL.
Terrain 137' from DER, 351' left of centerline, 22' AGL/612' MSL.
Poles and road sign beginning 1263' from DER, 60' left of centerline, up to 49' AGL/638' MSL.

GEORGETOWN, OH

BROWN COUNTY (GEO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 26AUG10 (10238) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, vehicle on road beginning 430' from DER, 116' right of centerline, up to 15' AGL/974' MSL.
Vehicle on road beginning 400' from DER, 155' left of centerline, up to 15' AGL/974' MSL.
Rwy 36, trees 328' from DER, 232' right of centerline, up to 100' AGL/1059' MSL.
Trees 301' from DER, 452' left of centerline, up to 100' AGL, 1069' MSL.

GOSHEN, IN

GOSHEN MUNI (GSH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 24MAY18 (18144) (FAA)

TAKEOFF MINIMUMS:

Rwys 5, 23, NA - environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 9, Post 42' from DER, 251' right of centerline, 12' AGL/831' MSL.
Pole 1030' from DER, 619' right of centerline, 37' AGL/862' MSL.
Pole 986' from DER, 465' left of centerline, 30' AGL/855' MSL.
Trees beginning 2493' from DER, 515' left of centerline, up to 100' AGL/966' MSL.
Rwy 27, Trees beginning 2173' from DER, 210' right of centerline, up to 100' AGL/914' MSL.
Trees beginning 2072' from DER, 124' left of centerline, up to 100' AGL/914' MSL.

GREENCASTLE, IN

PUTNAM COUNTY RGNL (GPC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05JAN17 (17005) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, grd 91' from DER, 299' left of centerline, 817' MSL.
Fence 113' from DER, 306' left of centerline, 3' AGL/822' MSL.
Fence 199' from DER, 307' left of centerline, 7' AGL/825' MSL.
Trees, poles, and bldgs beginning 538' from DER, 373' right of centerline, up to 873' MSL.
Tree 997' from DER, 266' left of centerline, 855' MSL.
Tree 1015' from DER, 360' left of centerline, 859' MSL.
Tree 2728' from DER, 1049' right of centerline, 894' MSL.
Rwy 36, grd 4' from DER, 486' right of centerline, 850' MSL.
Trees beginning 656' from DER, 596' right of centerline, up to 910' MSL.
Trees and bldg beginning 1269' from DER, 206' right of centerline, up to 912' MSL.
Trees, spire, and bldg beginning 1861' from DER, 217' right of centerline, up to 67' AGL/918' MSL.
Tree 1862' from DER, 535' left of centerline, 42' AGL/889' MSL.
Trees beginning 2227' from DER, 199' left of centerline, up to 64' AGL/912' MSL.
Tree and bldg beginning 2334' from DER, 18' left of centerline, up to 913' MSL.

GREENSBURG, IN

GREENSBURG MUNI (I34)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 09APR09 (09099) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 300-1.

GRIFFITH, IN

GRIFFITH - MERRILLVILLE (05C)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 8, 300-1 or std. w/min. climb of 510' per NM to 1000.

TAKEOFF OBSTACLE NOTES:

Rwy 26, vegetation 164' from DER, 471' left of centerline, 653' MSL.
Building beginning 192' from DER, 156' right of centerline, up to 672' MSL.
Pole beginning 1247' from DER, 199' right of centerline, up to 40' AGL/675' MSL.
Tree 1286' from DER, 285' left of centerline, 667' MSL.
Tree, pole beginning 1298' from DER, 58' right of centerline, up to 693' MSL.
Tree, pole beginning 1380' from DER, 25' left of centerline, up to 703' MSL.
Tree 1498' from DER, 80' right of centerline, 703' MSL.
Tree 1523' from DER, 271' left of centerline, 709' MSL.
Pole, tree beginning 1590' from DER, 21' left of centerline, up to 75' AGL/713' MSL.
Trees beginning 1613' from DER, 93' right of centerline, up to 710' MSL.
Trees beginning 1739' from DER, 25' left of centerline, up to 723' MSL.
Trees beginning 1826' from DER, 60' right of centerline, up to 716' MSL.
Trees beginning 1920' from DER, 68' right of centerline, up to 717' MSL.
Trees beginning 2144' from DER, 12' right of centerline, up to 739' MSL.
Tree 3205' from DER, 716' left of centerline, 725' MSL.
Rwy 8, tree, pole, vehicle on road beginning 164' from DER, 135' right of centerline, up to 703' MSL.
Pole 307' from DER, 514' left of centerline, 44' AGL/675' MSL.
Tree, vehicle on road beginning 432' from DER, 169' left of centerline, up to 695' MSL.
Trees beginning 444' from DER, 6' right of centerline, up to 708' MSL.
Pole, building beginning 454' from DER, 191' left of centerline, up to 75' AGL/704' MSL.
Tree, pole beginning 831' from DER, 7' left of centerline, up to 712' MSL.
Trees beginning 1055' from DER, 5' right of centerline, up to 709' MSL.
Trees beginning 1980' from DER, 58' left of centerline, up to 717' MSL.
Tree 2967' from DER, 388' right of centerline, 714' MSL.
Trees beginning 3166' from DER, 259' left of centerline, up to 718' MSL.
Trees beginning 3288' from DER, 153' left of centerline, up to 724' MSL.
Tree 3747' from DER, 284' left of centerline, 726' MSL.
Tower 4136' from DER, 1383' left of centerline, 257' AGL/896' MSL.

HAMILTON, OH

BUTLER COUNTY RGNL-HOGAN FIELD (HAO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwy 29, 300-1 or std. w/min. climb of 482' per NM to 900..

DEPARTURE PROCEDURE:

Rwy 11, climb heading 125° to 1700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 11, tree 939' from DER, 750' right of centerline, 667' MSL.
Pole 2962' from DER, 617' left of centerline, 29' AGL/694' MSL.
Pole 3320' from DER, 614' left of centerline, 53' AGL/706' MSL.
Pole 3559' from DER, 167' left of centerline, 62' AGL/711' MSL.
Tree 3624' from DER, 128' right of centerline, 717' MSL.
Rwy 29, vegetation 155' from DER, 277' right of centerline, 641' MSL.
Building 533' from DER, 374' left of centerline, 29' AGL/657' MSL.
Tree 964' from DER, 416' right of centerline, 667' MSL.
Tree 1123' from DER, 722' left of centerline, 698' MSL.
Tree 1395' from DER, 758' left of centerline, 702' MSL.
Vehicle on road, trees beginning 1946' from DER, 243' right of centerline, up to 703' MSL.
Pole 2217' from DER, 422' right of centerline, 22' AGL/721' MSL.
Tree, building beginning 2243' from DER, 370' right of centerline, up to 782' MSL.
Tree 2580' from DER, 289' left of centerline, 705' MSL.
Trees beginning 2595' from DER, 104' right of centerline, up to 788' MSL.
Trees beginning 2667' from DER, 57' left of centerline, up to 723' MSL.
Trees beginning 3548' from DER, 241' right of centerline, up to 814' MSL.

HARRISON, OH
CINCINNATI WEST (I67)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 08OCT20 (20282) (FAA)
TAKEOFF MINIMUMS:
Rwy 1, 500-3 or std. w/min. climb of 385' per NM to 1200.
Rwy 19, 500-3 or std. w/ min. climb of 253' per NM to 1300.
TAKEOFF OBSTACLE NOTES:
Rwy 1, multiple trees beginning 5364' from DER, 180' right of centerline, up to 100' AGL/915' MSL.
Multiple trees beginning 5596' from DER, 1180' left of centerline up to 100' AGL/909' MSL.
Multiple trees beginning 1.5 NM from DER, 2293' left of centerline, up to 200' AGL/849' MSL.
Rwy 19, road 23' from DER, on centerline, 15' AGL/599' MSL.

HILLSBORO, OH
HIGHLAND COUNTY (HOC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 19JUL18 (18200) (FAA)
TAKEOFF MINIMUMS:
Rwy 5, 300-1¾ or std. w/ min. climb of 285' per NM to 1300.
DEPARTURE PROCEDURES:
Rwy 23, climb on heading 234° to 1600 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 20' from DER, 40' left of centerline, up to 1023' MSL.
Fence 105' from DER, 326' right of centerline, 9' AGL/952' MSL.
Trees beginning 145' from DER, 13' right of centerline, up to 1023' MSL.
Tree 4652' from DER, 205' right of centerline, 1051' MSL.
Trees beginning 4692' from DER, 31' right of centerline, up to 100' AGL/1078'MSL.
Tree 1.1 NM from DER, 2294' right of centerline, 100' AGL/1170' MSL.
Rwy 23, tree 49' from DER, 444' right of centerline, 999' MSL.
Trees beginning 90' from DER, 185' right of centerline, up to 100' AGL/1075' MSL.
Tree, pole beginning 109' from DER, 42' left of centerline, up to 100' AGL/1062' MSL.
Trees beginning 448' from DER, 109' right of centerline, up to 100' AGL/1081' MSL.
Trees beginning 627' from DER, 33' right of centerline, up to 100' AGL/1085' MSL.

HUNTINGBURG, IN
HUNTINGBURG (HNB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
TAKEOFF MINIMUMS:
Rwy 9, 300-1.

HUNTINGTON, IN
HUNTINGTON MUNI (HHG)
TAKEOFF MINIMUMS AND (OBSTACLE)DEPARTURE PROCEDURES
AMDT 2 25MAY17 (17145) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 2' from DER, 324' right of centerline, 854' MSL.
Pole 47' from DER, 198' left, 23' AGL/812' MSL.
Trees beginning 291' from DER, 9' left of centerline, up to 882' MSL.
Trees beginning 745' from DER, 3' right of centerline, up to 838' MSL.
Trees beginning 888', 17' right of centerline, up to 848' MSL.
Trees beginning 1006' from DER, 189' left of centerline, up to 892' MSL.
Trees beginning 1141' from DER, 36' right of centerline, up to 866' MSL.
Tree 2112' from DER, 510' right of centerline, 872' MSL.
Rwy 27, tree 113' from DER, 498' left of centerline, 855' MSL.
Trees, bushes, vehicles on road, and poles beginning 159' from DER, 21' left of centerline, up to 875' MSL.
Pole 267' from DER, 82' right of centerline, 8' AGL/814' MSL.
Building 269' from DER, 519' right of centerline, 20' AGL/826' MSL.
Pole, and trees beginning 457' from DER, 26' right of centerline, up to 41' AGL/846' MSL.
Trees, and pole beginning 833' from DER, 1' right of centerline, up to 851' MSL.
Tree 2727' from DER, 815' right of centerline, 900' MSL.

INDIANAPOLIS, IN

EAGLE CREEK AIRPARK (EYE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 31MAR16 (16091) (FAA)

DEPARTURE PROCEDURE:

Rwy 3, climb heading 031° to 2100 before turning on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, pole 507' from DER, 631' left of centerline, 38' AGL/860' MSL.
Building 859' from DER, 524' right of centerline, 35' AGL/851' MSL.
Trees beginning 2015' from DER, 583' left of centerline, up to 87' AGL/904' MSL.
Rwy 21, airport beacon 10' from DER, 464' left of centerline, 54' AGL/867' MSL.
Pole 167' from DER, 385' left of centerline, 33' AGL/848' MSL.
Vehicles on road 310' from DER, right and left of centerline, up to 15' AGL/833' MSL.
Building 363' from DER, 258' left of centerline, 14' AGL/828' MSL.
Trees beginning 677' from DER, 267' right of centerline, up to 89' AGL/901' MSL.
Poles and power lines beginning 699' from DER, 451' left of centerline, up to 38' AGL/849' MSL.
Trees beginning 1623' from DER, 57' left of centerline, up to 90' AGL/890' MSL.

INDY SOUTH GREENWOOD (HFY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 01FEB18 (18032) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, climb heading 010° to 1500 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 1, poles beginning 7' from DER, 224' left of centerline, up to 17' AGL/835' MSL.
Tree 41' from DER, 364' right of centerline, 26' AGL/846' MSL.
Building 105' from DER, 495' right of centerline, 27' AGL/848' MSL.
Building 430' from DER, 603' left of centerline, 37' AGL/857' MSL.
Building, tree, pole beginning 458' from DER, 378' right of centerline, up to 40' AGL/858' MSL.
Building, pole beginning 463' from DER, 562' left of centerline, up to 39' AGL/859' MSL.
Building, pole, tree beginning 506' from DER, 470' left of centerline, up to 45' AGL/865' MSL.
Pole 671' from DER, 464' right of centerline, 51' AGL/868' MSL.
Pole, traverse way, sign, building, tree beginning 690' from DER, 245' right of centerline, up to 53' AGL/872' MSL.
Transmission line, pole beginning 1555' from DER, 659' right of centerline, up to 70' AGL/893' MSL.
Trees beginning 1917' from DER, 321' left of centerline, up to 90' AGL/899' MSL.
Trees beginning 2026' from DER, 328' left of centerline, up to 103' AGL/907' MSL.
Tree, transmission line beginning 2328' from DER, 795' right of centerline, up to 76' AGL/894' MSL.
Tree, transmission line beginning 2463' from DER, 376' right of centerline, up to 77' AGL/898' MSL.
Building 5365' from DER, 1405' right of centerline, 135' AGL/957' MSL.
Rwy 19, terrain 2' from DER, 496' left of centerline, 824' MSL.
Fence 12' from DER, 490' right of centerline, 4' AGL/826' MSL.
Tree 212' from DER, 549' left of centerline, 52' AGL/873' MSL.
Tree 543' from DER, 417' right of centerline, 18' AGL/845' MSL.
Tree, building beginning 564' from DER, 612' left of centerline, up to 62' AGL/884' MSL.
Tree 638' from DER, 402' right of centerline, 20' AGL/849' MSL.
Tree 752' from DER, 383' right of centerline, 24' AGL/852' MSL.
Trees beginning 782' from DER, 65' right of centerline, up to 41' AGL/868' MSL.
Tree, pole beginning 953' from DER, 9' left of centerline, up to 62' AGL/886' MSL.
Tree, pole beginning 1155' from DER, 145' right of centerline, up to 69' AGL/896' MSL.
Trees beginning 1487' from DER, 83' right of centerline, up to 78' AGL/902' MSL.
Trees beginning 1561' from DER, 25' right of centerline, up to 76' AGL/904' MSL.
Trees beginning 2035' from DER, 270' right of centerline, up to 87' AGL/908' MSL.
Trees beginning 2161' from DER, 634' left of centerline, up to 76' AGL/908' MSL.
Trees beginning 2706' from DER, 156' left of centerline, up to 80' AGL/916' MSL.
Trees beginning 2730' from DER, 248' right of centerline, up to 98' AGL/923' MSL.
Tree 3079' from DER, 1113' left of centerline, 60' AGL/918' MSL.
Trees beginning 3080' from DER, 181' left of centerline, up to 64' AGL/921' MSL.
Trees beginning 3246' from DER, 131' left of centerline, up to 72' AGL/923' MSL.
Tree 4071' from DER, 127' left of centerline, 79' AGL/944' MSL.

HENRICKS COUNTY-GORDON GRAHAM FLD (2R2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05JUN08 (08157) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, Pole 746' from DER, on centerline, 60' AGL/919' MSL.
trees 2091' from DER, 625' left of centerline, 100' AGL/949' MSL.
Rwy 36, Trees 1302' from DER, 648' right of centerline, 100' AGL/1009' MSL.
Tree 3529' from DER, 788' right of centerline, 100' AGL/1009' MSL.
Tree 5244' from DER, 1005' left of centerline, 100' AGL/1029' MSL.

INDIANAPOLIS, IN (CON'T)

INDIANAPOLIS EXECUTIVE (TYQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20OCT11 (11293) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, tree 1870' from DER, 524' left of centerline, 52' AGL/971' MSL.
Rwy 36, poles 1115' from DER, 321' left of centerline, 33' AGL/958' MSL.
Multiple trees beginning 1257' from DER, 320' right of centerline, up to 80' AGL/999' MSL.
Multiple trees beginning 2266' from DER, left and right of centerline, up to 126' AGL/1035' MSL.

INDIANAPOLIS INTL (IND)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 18JAN07 (07018) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5R, tower 3756' from DER, 1048' left of centerline, 111' AGL/901' MSL.
Rod on obstruction light dome 3765' from DER, 1076' left of centerline, 107' AGL/901' MSL.
Rwy 5L, rod on obstruction light MCWV tower 5052' from DER, 140' right of centerline, 129' AGL/923' MSL.
Tower 5073' from DER, 93' right of centerline, 128'AGL/923'MSL.
Rwy 23R, tree 5159' from DER, 1144' right of centerline, 101' AGL/870' MSL.
Tree 3295' from DER, 948' right of centerline, 78' AGL/822' MSL.
Rwy 32, antenna 2370' from DER, 755' right of centerline, 70' AGL/849' MSL.
Tree 2244' from DER, 707' right of centerline, 66' AGL/845' MSL.

INDIANAPOLIS METROPOLITAN (UMP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 05MAY11 (11125) (FAA)

TAKEOFF MINIMUMS:

Rwy 15, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwy 33, climb heading 329° to 1400 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 33, vehicles on road 367' from DER, crossing left and right of centerline, up to 15' AGL/799' MSL.
Trees beginning 682' from DER, 69' right of centerline, up to 100' AGL/879' MSL.
Trees beginning 1805 from DER, 648' left of centerline, up to 100' AGL/874' MSL.

INDIANAPOLIS RGNL (MQJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 20SEP12 (12264) (FAA)

TAKEOFF MINUMUMS:

Rwy 34, 300-1 or std. w/min. climb of 347' per NM to 1100.

DEPARTURE PROCEDURE:

Rwy 25, climb heading 270° to 2000 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 7, airplane on taxiway, 177' from DER, 518' left of centerline, up to 17' AGL/871' MSL.
Trees beginning 4074' from DER, 434' left of centerline, up to 100' AGL/969' MSL.
Trees beginning 4626' from DER, 837' right of centerline, up to 100' AGL/979' MSL.
Rwy 16, airplane on taxiway, 183' from DER, 479' right of centerline, up to 17' AGL/871' MSL.
Pole 234' from DER, 550' right of centerline, 6' AGL/864' MSL.
Trees beginning 1634' from DER, 666' left of centerline, up to 78' AGL/929' MSL.
Rwy 25, trees beginning 2347' from DER, 927' left of centerline, up to 100' AGL/969' MSL.
Rwy 34, trees beginning 1309' from DER, 7' left of centerline, up to 98' AGL/954' MSL.
Pole 1587' from DER, 295' left of centerline, 41' AGL/900' MSL.
Trees beginning 3099' from DER, 1043' right of centerline, up to 86' AGL/960' MSL.
Antennas and towers beginning 3682' from DER, 1364' right of centerline, up to 167' AGL/1022' MSL.

JACKSON, OH

JAMES A. RHODES (I43)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 20DEC07 (07354) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-2.

Rwy 19, 300-1½.

DEPARTURE PROCEDURE:

Rwy 1, climb heading 010° to 1500 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 1, car on road 475' from DER, on centerline, 15' AGL/754' MSL.
Trees 2570' from DER, 613' left of centerline, 100' AGL/936' MSL.
Trees 2810' from DER, 1243' left of centerline, 100' AGL/989' MSL.
Trees 1.1 NM from DER, 1355' right of centerline, 100' AGL/949' MSL.
Tank 1.4 NM from DER, 1870' left of centerline, 112' AGL/1008' MSL.
Rising terrain beginning 1320' from DER, 316' left of centerline, up to 889' MSL.
Rwy 19, pole 1137' from DER, 114' left of centerline, 39' AGL/779' MSL.
Trees 1869' from DER, 138' right of centerline, 100' AGL/840' MSL.
Trees 2349' from DER, 103' right of centerline, 100' AGL/899' MSL.
Rising terrain beginning 386' from DER, 587' right of centerline, up to 989' MSL.

JEFFERSONVILLE, IN

CLARK RGNL (JVY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 14, 300-1⅞ or std. w/min. climb of 230' per NM to 900.

Rwy 32, std. w/min. climb of 225' per NM to 1600 or 1900-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 14, climb heading 140° to 1300 before turning right.

Rwy 18, climb heading 182° to 1600 before turning right.

Rwy 32, climb heading 320° to 2000 before turning left.

Rwy 36, climb heading 002° to 1600 before turning left.

VCOA:

Rwy 32, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Clark RGNL Airport at or above 2200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, sign and tree beginning 22' from DER, 88' right of centerline, up to 7' AGL/465' MSL.
Tree 73' from DER, 266' left of centerline, 529' MSL.
Tree 123' from DER, 377' left of centerline, 540' MSL.
Tree and pole beginning 126' from DER, 29' left of centerline, up to 92' AGL/553' MSL.
Tree 205' from DER, 176' right of centerline, 21' AGL/468' MSL.
Tree 248' from DER, 179' right of centerline, 23' AGL/470' MSL.
Trees beginning 372' from DER, 41' right of centerline, up to 41' AGL/491' MSL.
Trees beginning 397' from DER, 129' right of centerline, up to 51' AGL/503' MSL.
Trees beginning 420' from DER, 22' right of centerline, up to 506' MSL.
Tree 563' from DER, 266' right of centerline, 518' MSL.
Trees beginning 565' from DER, 422' right of centerline, up to 526' MSL.
Trees beginning 596' from DER, 175' right of centerline, up to 100' AGL/536' MSL.
Catenary, tree and pole beginning 1615' from DER, 252' left of centerline, up to 563' MSL.
Tree 1693' from DER, 858' right of centerline, 537' MSL.
Tree 1793' from DER, 790' right of centerline, 550' MSL.
Trees beginning 1884' from DER, 732' right of centerline, up to 551' MSL.
Pole, catenary and tree beginning 2085' from DER, 242' left of centerline, up to 566' MSL.
Catenary and transmission line beginning 2148' from DER, 316' left of centerline, up to 580' MSL.
Tower 2207' from DER, 734' left of centerline, 594' MSL.
Tower, catenary, tree and transmission line beginning 2216' from DER, 201' left of centerline, up to 110' AGL/600' MSL.
Tree and catenary beginning 2388' from DER, 321' right of centerline, up to 558' MSL.
Catenary and tree beginning 2507' from DER, 165' left of centerline, up to 607' MSL.
Catenary and tree beginning 2742' from DER, 1025' right of centerline, up to 572' MSL.
Catenary 3380' from DER, 10' right of centerline, 119' AGL/578' MSL.
Catenary 3763' from DER, 202' right of centerline, 95' AGL/590' MSL.
Catenary 4265' from DER, 508' right of centerline, 593' MSL.
Antenna 1.5 NM from DER, 1335' left of centerline, 171' AGL/730' MSL.
Rwy 18, tree 262' from DER, 523' left of centerline, 50' AGL/490' MSL.
Tree 301' from DER, 515' right of centerline, 53' AGL/492' MSL.
Trees beginning 320' from DER, 475' right of centerline, up to 496' MSL.
Tree 369' from DER, 543' left of centerline, 493' MSL.
Tree and building beginning 545' from DER, 94' right of centerline, up to 508' MSL.
Trees beginning 559' from DER, 105' left of centerline, up to 512' MSL.
Trees beginning 1223' from DER, 691' left of centerline, up to 526' MSL.
Trees beginning 1375' from DER, 791' left of centerline, up to 90' AGL/538' MSL.
Tree 1716' from DER, 777' left of centerline, 545' MSL.
Tree and tank beginning 1720' from DER, 29' right of centerline, up to 96' AGL/559' MSL.

CON'T

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

JEFFERSONVILLE, IN (CON'T)

CLARK RGNL (JVY) (CON'T)

Rwy 18 (CON'T), trees beginning 1778' from DER, 746' left of centerline, up to 552' MSL.
Trees beginning 1946' from DER, 676' left of centerline, up to 559' MSL.
Trees beginning 2254' from DER, 164' left of centerline, up to 563' MSL.
Trees beginning 3221' from DER, 678' right of centerline, up to 562' MSL.
Trees beginning 3833' from DER, 303' left of centerline, up to 86' AGL/570' MSL.
Catenary and transmission line beginning 4274' from DER, 564' left of centerline, up to 603' MSL.
Catenary and transmission line beginning 4976' from DER, 254' left of centerline, up to 125' AGL/610' MSL.
Catenary 5675' from DER, 681' right of centerline, 606' MSL.
Rwy 32, sign 19' from DER, 87' left of centerline, 8' AGL/474' MSL.
Tree 40' from DER, 419' right of centerline, 87' AGL/542' MSL.
Tree 145' from DER, 447' right of centerline, 101' AGL/557' MSL.
Tree, pole and building beginning 192' from DER, 12' right of centerline, up to 91' AGL/546' MSL.
Tree, pole and traverse way beginning 386' from DER, 8' left of centerline, up to 70' AGL/531' MSL.
Trees beginning 1054' from DER, 9' right of centerline, up to 101' AGL/560' MSL.
Tree 1638' from DER, 744' left of centerline, 534' MSL.
Trees beginning 1648' from DER, 608' left of centerline, up to 541' MSL.
Trees beginning 1819' from DER, 518' left of centerline, up to 542' MSL.
Trees beginning 2052' from DER, 11' left of centerline, up to 101' AGL/569' MSL.
Tree 2824' from DER, 1250' left of centerline, 575' MSL.
Trees beginning 3038' from DER, 1195' left of centerline, up to 576' MSL.
Trees beginning 3296' from DER, 895' right of centerline, up to 567' MSL.
Trees beginning 3501' from DER, 821' right of centerline, up to 582' MSL.
Trees beginning 3880' from DER, 563' left of centerline, up to 600' MSL.
Trees beginning 4783' from DER, 1553' left of centerline, up to 616' MSL.
Rwy 36, fence 172' from DER, 462' right of centerline, 482' MSL.
Traverse way 330' from DER, 508' right of centerline, 494' MSL.
Tree 418' from DER, 596' left of centerline, 505' MSL.
Trees beginning 604' from DER, 596' left of centerline, up to 527' MSL.
Pole 1130' from DER, 791' right of centerline, 513' MSL.
Pole 1310' from DER, 568' right of centerline, 515' MSL.
Transmission line 1648' from DER, 888' right of centerline, 92' AGL/544' MSL.
Catenary, tree and pole beginning 1648' from DER, 603' right of centerline, up to 548' MSL.
Trees beginning 2148' from DER, 821' left of centerline, up to 94' AGL/552' MSL.
Trees beginning 2216' from DER, 555' left of centerline, up to 553' MSL.
Tree 2823' from DER, 871' right of centerline, 550' MSL.
Tree 3009' from DER, 1296' right of centerline, 552' MSL.
Tree 3055' from DER, 818' right of centerline, 562' MSL.
Transmission line and tree beginning 3192' from DER, 321' right of centerline, up to 71' AGL/564' MSL.

KENDALLVILLE, IN

KENDALLVILLE MUNI (C62)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 16JAN86 (86016) (FAA)

DEPARTURE PROCEDURE:

Rwys 10, 28, climb runway heading to 1500 before turning south.

KENT, OH

KENT STATE UNIV (1G3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 31MAY12 (12152) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 1, trees, transmission poles, and a chimney beginning 72' from DER, 369' right of centerline, up to 69' AGL/1179' MSL.
Trees and a transmission pole beginning 394' from DER, 249' left of centerline, up to 97' AGL/1203' MSL.
Rwy 19, vehicles on road, poles, and a tree beginning 331' from DER, 325' left of centerline, up to 42' AGL/1144' MSL.
Trees and a building beginning 61' from DER, 412' from centerline, up to 81' AGL/1185' MSL.
Trees beginning 1240' from DER, left and right of centerline, up to 109' AGL/1218' MSL.

KENTLAND, IN

KENTLAND MUNI (50I)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 14SEP17 (17257)

DEPARTURE PROCEDURE:

Rwy 27, climb heading 260° to 1100' before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 9, vehicle on road 486' from DER, crossing centerline, 715' MSL/15' AGL.
Trees beginning 571' from DER, 116' right of centerline, up to 770' MSL/70' AGL.
Rwy 27, trees, building, pole beginning 533' from DER, 146' right of centerline, up to 765' MSL.
Pole beginning 746' from DER, 25' left of centerline, up to 23' AGL/723' MSL.
Pole beginning 925' from DER, 130' left of centerline, up to 27' AGL/724' MSL.
Tree 1215' from DER, 450' left of centerline, 733' MSL.

EC-2, 25 FEB 2021 to 22 APR 2021
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KENTON, OH

HARDIN COUNTY (I95)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 13JAN11 (11013) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 4, trees, buildings, antenna on building, light poles, and flag poles beginning 31' from DER, 240' left of centerline, up to 29' AGL/1027' MSL.
Sign 103' from DER, 204' right of centerline, 8' AGL/1012' MSL.
Trees beginning 877' from DER, left and right of centerline, up to 103' AGL/1093' MSL.
Rwy 22, trees and buildings beginning 7' from DER, 484' left of centerline, up to 77' AGL/1103' MSL.
Trees beginning 179' from DER, 51' right of centerline, up to 108' AGL/1122' MSL.
Trees beginning 1345' from DER, left and right of centerline, up to 115' AGL/1158' MSL.

KNOX, IN

STARKE COUNTY (OXI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25SEP08 (08269) (FAA)

TAKEOFF MINIMUMS:

Rwys 9, 27, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 36, tree 1234' from DER, 477' left of centerline, 35' AGL/715' MSL.
Rwy 18, trees beginning 2442' from DER, 135' right of centerline, up to 86' AGL/769' MSL.
Tree 21' from DER, 449' left of centerline, 5' AGL/668' MSL.

KOKOMO, IN

KOKOMO MUNI (OKK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 23JUN16 (16175) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, sign 20’ from DER, 210’ left of centerline, 3’ AGL/821’ MSL.
Trees beginning 501’ from DER, 361’ right of centerline, up to 57’ AGL/870’ MSL.
Tree 640’ from DER, 466’ left of centerline, 20’ AGL/835’ MSL.
Pole 642’ from DER, 653’ left of centerline, 843’ MSL.
Buildings beginning 908’ from DER, 706’ left of centerline, up to 37’ AGL/856’ MSL.
Pole 971’ from DER, 610’ left of centerline, up to 39’ AGL/858’ MSL.
Trees, poles beginning 1042’ from DER, 609’ left of centerline, up to 48’ AGL/870’ MSL.
Elevator 1835’ from DER, 361’ right of centerline, 41’ AGL/867’ MSL.
Trees beginning 3730’ from DER, 1373’ left of centerline, up to 928’ MSL.
Trees beginning 3747’ from DER, 1245’ left of centerline, up to 936’ MSL.
Rwy 14, tree, bush beginning 6’ from DER, 196’ left of centerline, up to 31’ AGL/849’ MSL.
Tree, fence, vertical structure beginning 53’ from DER, 153’ right of centerline, up to 9’ AGL/831’ MSL.
Bush, fence beginning 116’ from DER, 297’ right of centerline, up to 842’ MSL.
Building 2117’ from DER, 488’ left of centerline, 58’ AGL/880’ MSL.
Building, elevator beginning 2120’ from DER, 485’ left of centerline, up to 885’ MSL.
Tree 2181’ from DER, 215’ left of centerline, 64’ AGL/890’ MSL.
Trees beginning 2186’ from DER, 213’ left of centerline, up to 77’ AGL/904’ MSL.
Tree 2945’ from DER, 1073’ right of centerline, 899’ MSL.
Rwy 32, post 0’ from DER, 149’ right of centerline, 4’ AGL/828’ MSL.
Buildings beginning 133’ from DER, 493’ right of centerline, up to 15’ AGL/837’ MSL.
Buildings beginning 155’ from DER, 490’ right of centerline, up to 20’ AGL/843’ MSL.
Poles beginning 706’ from DER, 520’ right of centerline, up to 49’ AGL/873’ MSL.
Buildings, elevator, trees beginning 1592’ from DER, 414’ left of centerline, up to 68’ AGL/889’ MSL.
Tree 4804’ from DER, 500’ left of centerline, 121’ AGL/949’ MSL.

LA PORTE, IN

LA PORTE MUNI (PPO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05JUL07 (07186) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 14, power line beginning 4937' from DER, 670' right of centerline, 150' AGL/934' MSL.
Rwy 20, power line beginning 3978' from DER, 1566' left of centerline, 150' AGL/959' MSL.

LAFAYETTE, IN
PURDUE UNIVERSITY (LAF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10MAY07 (07130) (FAA)
TAKEOFF MINIMUMS:
Rwy 5, 300-1¼ or std. w/ min. climb of 342' per NM to 1000.
Rwy 23, 400-2¼ or std. w/ min. climb of 220' per NM to 1100.
TAKEOFF OBSTACLE NOTES:
Rwy 5, multiple trees and buildings beginning 290' from DER, 33' right of centerline, up to 167' AGL/782' MSL.
Multiple trees, buildings, and antennas beginning 45' from DER, 25' left of centerline, up to 227' AGL/850' MSL.
Rwy 10, multiple trees beginning 1230' from DER, 394' right of centerline, up to 80' AGL/639' MSL.
Antenna 258' from DER, 323' left of centerline, 14' AGL/613' MSL.
Rwy 23, rod on obstruction light tower 1.9 NM from DER, 272' left of centerline, 314' AGL/915' MSL.
Tree 90' from DER, 235' left of centerline, 34' AGL/613' MSL.
Rwy 28, multiple trees beginning 397' from DER, 461' left of centerline, up to 57' AGL/656' MSL.
Tree 3382' from DER, 973' right of centerline, 68' AGL/697' MSL.

LANCASTER, OH
FAIRFIELD COUNTY (LHQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 12DEC13 (13346) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 400-2 or std. w/min. climb of 310' per NM to 1400.
DEPARTURE PROCEDURE:
Rwy 10, climb heading 100° to 1600 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees beginning 1571' from DER, 647' right of centerline, up to 56' AGL/927' MSL.
Trees beginning 1617' from DER, 509' left of centerline, up to 89' AGL/974' MSL.
Trees beginning 2131' from DER, 460' right of centerline, up to 74' AGL/945' MSL.
Trees beginning 5480' from DER, 173' right of centerline, up to 76' AGL/1037' MSL.
Trees beginning 1.1 NM from DER, 724' left of centerline, up to 84' AGL/1061' MSL.
Tree 1.9 NM from DER, 1990' right of centerline, 100' AGL/1259' MSL.
Rwy 28, trees beginning 738' from DER, 315' left of centerline, up to 77' AGL/912' MSL.
Trees 1509' from DER, 97' right of centerline, up to 76' AGL/897' MSL.
Trees beginning 1906' from DER, 358' right of centerline, up to 107' AGL/942' MSL.
Silo 2230' from DER, 267' left of centerline, 60' AGL/915' MSL.

LEBANON, OH
LEBANON-WARREN COUNTY (I68)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 20SEP12 (12264) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 1, terrain and tree beginning 36' from DER, 320' left of centerline, up to 50' AGL/958' MSL.
Trees beginning 1084' from DER, left and right of centerline, up to 65' AGL/955' MSL.
Trees beginning 1510' from DER, left and right of centerline, up to 80' AGL/986' MSL.
Trees beginning 2001' from DER, 83' left of centerline, up to 100' AGL/1015' MSL.
Rwy 19, vehicles on roadway beginning abeam the DER, left and right of centerline, up to 15' AGL/901' MSL.
Terrain beginning 32' from DER, left and right of centerline, up to 886' MSL.
Buildings 74' from DER, 425' right of centerline, up to 15' AGL/892' MSL.
Trees 252' from DER, 359' right of centerline, up to 60' AGL/948' MSL.
Trees beginning 1089' from DER, 179' left of centerline, up to 55' AGL/952' MSL.
Trees beginning 1804' from DER, left and right of centerline, up to 85' AGL/960' MSL.

LIMA, OH
LIMA ALLEN COUNTY (AOH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 16AUG18 (18228) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 10, bush beginning 162' from DER, 310' right of centerline, up to 4' AGL/983' MSL.
Rwy 28, multiple trees beginning 1343' from DER, 160' right of centerline, up to 71' AGL/1015' MSL.

LOGANSPORT, IN
LOGANSPORT/CASS COUNTY (GGP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 05MAY11 (11125) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 2218' from DER, 489' right of centerline, 65' AGL/794' MSL.
Rwy 27, power poles beginning 925' from DER, 334' left of centerline, 40' AGL/773' MSL.
Tree 2042' from DER, 143' left of centerline, 72' AGL/801' MSL.
Power poles beginning 639' from DER, 332' right of centerline, 40' AGL/767' MSL.

LONDON, OH
MADISON COUNTY (UYF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 30JAN20 (20030) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 164' from DER, 484' left of centerline, 1059' MSL.
Trees beginning 289' from DER, 417' left of centerline, up to 1065' MSL.
Pole 1154' from DER, 791' left of centerline, 1080' MSL.
Trees beginning 1330' from DER, 301' left of centerline, up to 1096' MSL.
Tree 1495' from DER, 416' left of centerline, 1103' MSL.
Tree 2591' from DER, 511' left of centerline, 1121' MSL.
Rwy 27, vertical structure 53' from DER, 206' left of centerline, 1089' MSL.
Vertical structure 134' from DER, 188' right of centerline, 1085' MSL.
Tree 2091' from DER, 973' right of centerline, 1142' MSL.

LORAIN/ELYRIA, OH
LORAIN COUNTY RGNL (LPR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 24MAY18 (18144) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7, terrain beginning 21' from DER, 83' left of centerline, up to 801' MSL.
Terrain 180' from DER, 288' right of centerline, 794' MSL.
Terrain beginning 229' from DER, 261' left of centerline, up to 804' MSL.
Terrain 308' from DER, 13' right of centerline, 801' MSL.
Trees beginning 839' from DER, 520' left of centerline, up to 832' MSL.
Tree 972' from DER, 294' right of centerline, 823' MSL.
Trees beginning 1181' from DER, 52' left of centerline, up to 836' MSL.
Tree 1294' from DER, 538' right of centerline, 847' MSL.
Tree 1852' from DER, 431' right of centerline, 861' MSL.
Tree 1875' from DER, 653' right of centerline, 865' MSL.
Rwy 25, vegetation 582' from DER, 468' right of centerline, 809' MSL.
Tree 1587' from DER, 697' left of centerline, 838' MSL.
Tree 2180' from DER, 785' right of centerline, 848' MSL.
Tree 2276' from DER, 435' right of centerline, 854' MSL.

MADISON, IN
MADISON MUNI (IMS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 31JUL08 (08213) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 3, Vehicle on road 625' from DER, on centerline, 15' AGL/844' MSL.
Antenna on building and trees beginning 170' from DER, 432' left of centerline, up to 85' AGL/904' MSL.
Poles and trees beginning 526' from DER, 64' right of centerline, up to 130' AGL/959' MSL.
Rwy 21, Vehicle on road 575' from DER, on centerline, 15' AGL/824' MSL.
Trees and poles beginning 285' from DER, 16' left of centerline, up to 157' AGL/947' MSL.
Trees and pole beginning 116' from DER, 1' right of centerline, up to 123' AGL/912' MSL.

MANSFIELD, OH
MANSFIELD LAHM RGNL (MFD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (09071) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees 1337' from DER, 209' right of centerline, 78' AGL/1318' MSL.
Trees 1494' from DER, 410' left of centerline, 80' AGL/1330' MSL.
Rwy 32, trees 2399' from DER, 868' right of centerline, 90' AGL/1310' MSL.

MARION, IN

MARION MUNI - MCKINNEY FIELD (MZZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20JUN19 (21056) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 4, terrain, NAVAID, pole beginning abeam DER, 124' left of centerline, up to 854' MSL.
Pole, NAVAID beginning 34' from DER, 124' right of centerline, up to 852' MSL.
Terrain beginning 68' from DER, 412' right of centerline, up to 856' MSL.
Tree 534' from DER, 612' left of centerline, 890' MSL.
Trees beginning 775' from DER, 435' left of centerline, up to 895' MSL.
Trees beginning 929' from DER, 694' right of centerline, up to 65' AGL/914' MSL.
Trees beginning 1082' from DER, 13' left of centerline, up to 915' MSL.
Trees beginning 1283' from DER, 8' right of centerline, up to 921' MSL.
Trees beginning 1672' from DER, 107' left of centerline, up to 927' MSL.
Trees beginning 1852' from DER, 30' left of centerline, up to 936' MSL.
Trees beginning 2280' from DER, 42' right of centerline, up to 927' MSL.
Trees beginning 2749' from DER, 838' left of centerline, up to 942' MSL.
Tree 3145' from DER, 1200' right of centerline, 937' MSL.
Rwy 15, trees beginning 77' from DER, 224' left of centerline, up to 921' MSL.
Terrain 116' from DER, 462' right of centerline, 855' MSL.
Vegetation, terrain beginning 162' from DER, 282' right of centerline, up to 858' MSL.
Trees beginning 431' from DER, 239' left of centerline, up to 925' MSL.
Tree 539' from DER, 269' right of centerline, 51' AGL/901' MSL.
Tree, pole, vehicle on traverse way beginning 569' from DER, 63' left of centerline, up to 926' MSL.
Tree 676' from DER, 393' right of centerline, 904' MSL.
Tree 701' from DER, 331' right of centerline, 73' AGL/914' MSL.
Trees beginning 780' from DER, 361' right of centerline, up to 95' AGL/941' MSL.
Trees beginning 870' from DER, 361' right of centerline, up to 102' AGL/943' MSL.
Tree, pole beginning 1102' from DER, 20' right of centerline, up to 107' AGL/948' MSL.
Trees beginning 2580' from DER, 70' left of centerline, up to 942' MSL.
Rwy 22, pole 902' from DER, 572' left of centerline, 24' AGL/881' MSL.
Tree 1651' from DER, 605' right of centerline, 45' AGL/904' MSL.
Tree, pole beginning 1717' from DER, 760' right of centerline, up to 921' MSL.
Rwy 33, sign 11' from DER, 72' right of centerline, 3' AGL/859' MSL.
Vegetation 61' from DER, 242' left of centerline, 11' AGL/864' MSL.
Pole, vehicle on traverse way, tree, transmission line beginning 366' from DER, 261' left of centerline, up to 38' AGL/895' MSL.
Tree 725' from DER, 427' left of centerline, 908' MSL.
Trees beginning 795' from DER, 507' right of centerline, up to 928' MSL.
Tree, pole beginning 815' from DER, 362' left of centerline, up to 58' AGL/913' MSL.
Tree, pole beginning 889' from DER, 4' right of centerline, up to 931' MSL.
Tree 986' from DER, 741' left of centerline, 88' AGL/941' MSL.
Trees beginning 1006' from DER, 130' left of centerline, up to 94' AGL/946' MSL.
Tree 2839' from DER, 1245' left of centerline, 948' MSL.
Tree 2989' from DER, 1133' left of centerline, 950' MSL.
Trees beginning 3140' from DER, 1063' left of centerline, up to 959' MSL.
Trees beginning 3257' from DER, 1' left of centerline, up to 111' AGL/965' MSL.
Tree 3426' from DER, 106' right of centerline, 947' MSL.
Tree 3579' from DER, 144' right of centerline, 952' MSL.
Trees beginning 3695' from DER, 29' right of centerline, up to 958' MSL.

MARION, OH

MARION MUNI (MNN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30AUG07 (07242) (FAA)

DEPARTURE PROCEDURE:

Rwy 25, climb heading 245° to 1600 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees 3283' from DER, 273' left of centerline, up to 89' AGL/1088' MSL.
Multiple trees beginning 36' from DER, 280' right of centerline, up to 43' AGL/1033' MSL.
Rwy 13, trees 512' from DER, 277' left of centerline, up to 100' AGL/1089' MSL.
Road 491' from DER, 15' AGL/1004' MSL.
Rwy 25, obstruction light on antenna 419' from DER, 407' left of centerline, up to 13' AGL/1008' MSL.
Road 434' from DER, 15' AGL/1004' MSL.
Rwy 31, trees 2186' from DER, up to 100' AGL/1089' MSL.
Road 355' from DER, 485' left of centerline, 15' AGL/1004' MSL.

MARYSVILLE, OH
UNION COUNTY (MRT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 16NOV89 (89320) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 300-1.

MEDINA, OH
MEDINA MUNI (1G5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 18NOV10 (10322) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 1, vehicle on road 534' from DER, on centerline 15' AGL/1214' MSL.
Trees beginning 562' from DER, 588' left of centerline, up to 100' AGL/1279' MSL.
Trees beginning 1925' from DER on centerline, up to 100' AGL/1319' MSL.
Rwy 9, trees beginning 305' from DER, 396' right of centerline, up to 100' AGL/1249' MSL.
Tower 3626' from DER, 533' left of centerline, 189' AGL/1321' MSL.
Rwy 19, trees beginning at DER, 112' left of centerline, up to 100' AGL/1289' MSL.
Trees beginning 1490' from DER, 150' right of centerline, up to 100' AGL/1289' MSL.
Rwy 27, trees beginning at DER, 345' left of centerline, up to 100' AGL/1319' MSL.
Trees beginning at DER, 366' right of centerline, up to 100' AGL/1279' MSL.
Vehicle on road 501' from DER, on centerline, 15' AGL/1184' MSL.

MICHIGAN CITY, IN
MICHIGAN CITY MUNI-PHILLIPS FIELD (MGC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 23SEP10 (10266) (FAA)
DEPARTURE PROCEDURE:
Rwy 20, climb heading 203° to 1200 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 2, vehicle on road beginning 97' from DER, 191' left of centerline, up to 15' AGL/654' MSL.
Vehicle on road 374' from DER, 555' right of centerline, 15' AGL/674' MSL.
Trees beginning 169' from DER, left and right of centerline, up to 50' AGL/709' MSL.
Rwy 20, trees beginning at DER, 181' right of centerline, up to 50' AGL/709' MSL.
Vehicles on road 208' from DER, left and right of centerline, 17' AGL/676' MSL.
Trees beginning 1418' from DER, left and right of centerline, up to 50' AGL/719' MSL.

MIDDLEFIELD, OH
GEAUGA COUNTY (7G8)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 08JUN06 (06159) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 11, railroad 331' from DER, 315' left of centerline, 23' AGL/1182' MSL.
Trees 3144' from DER, 671' left of centerline, 100' AGL/1249' MSL.
Rwy 29, railroad 349' from DER, 521' left of centerline, 23' AGL/1212' MSL.
Multiple buildings 993' from DER, 294' right of centerline, 40' AGL/1239' MSL.
Trees 1875' from DER, 791' right of centerline, 100' AGL/1319' MSL.
Tank 2251' from DER, 578' right of centerline, 125' AGL/1315' MSL.

MIDDLETOWN, OH
MIDDLETOWN RGNL/HOOK FIELD (MWO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 20SEP12 (12264) (FAA)
TAKEOFF MINIMUMS:
Rwys 8, 26, NA -environmental.
Rwy 23, 300-1¾ or std. w/min. climb of 880' per NM to 1000.
DEPARTURE PROCEDURE:
Rwy 5, climb heading 053° to 1500' before proceeding on course.
Rwy 23, climb heading 233° to 1300' before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 5, vehicles on roadway 17' from DER, left and right of centerline, up to 15' AGL/669' MSL.
Terrain 106' from DER, 447' left of centerline, 661' MSL.
Terrain 335' from DER, 395' left of centerline, 659' MSL.
Trees beginning 676' from DER, left and right of centerline, up to 126' AGL/766' MSL.
Poles beginning 1003' from DER, 259' right of centerline, up to 55' AGL/695' MSL.
Rwy 23, trees 1119' from DER, 76' right of centerline, 109' AGL/739' MSL.
Tower 1794' from DER, 603' left of centerline, 63' AGL/703' MSL.
Stack 1997' from DER, 961' left of centerline, 205' AGL/855' MSL.
Tree 1930' from DER, 903' left of centerline, 109' AGL/749' MSL.

MILLERSBURG, OH
HOLMES COUNTY (10G)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 20AUG15 (15232) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 27, 300-1.
TAKEOFF OBSTACLE NOTES:
Rwy 9, bushes 136' from DER, 235 left of centerline, up to 25' AGL/1200' MSL.
Rwy 27, trees beginning 212' from DER, 443' right of center line, up to 100' AGL/1287' MSL.
Trees and poles beginning 1220' from DER, 158' right of centerline, up to 100' AGL/1315' MSL.
Trees and buildings beginning 1116' from DER, 272' left of centerline, up to 100' AGL/1337' MSL.

MONTICELLO, IN
WHITE COUNTY (MCX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10NOV16 (16315) (FAA)
TAKEOFF MINIMUMS:
Rwy 36, 600-3 or std. w/min. climb of 265' per NM to 1400.
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 23' from DER, 309' left of centerline, up to 739' MSL.
Trees beginning 35' from DER, 296' right of centerline, 731' MSL.
Trees and pole beginning 51' from DER, 16' right of centerline, up to 744' MSL.
Trees and building beginning 436' from DER, 3' left of centerline, up to 757' MSL.
Trees beginning 1284' from DER, 11' left of centerline, up to 775' MSL.
Trees beginning 1961' from DER, 27' right of centerline, up to 753' MSL.
Rwy 36, tree 983' from DER, 571' right of centerline, 754' MSL.
Tower 1.7 NM from DER, 1101' right of centerline, 292' AGL/973' MSL.
Tower 2.5 NM from DER, 4185' left of centerline, 420' AGL/1134' MSL.

MT. GILEAD, OH
MORROW COUNTY (4I9)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 18NOV10 (10322)
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees 858' from DER, 331' right of centerline, 100' AGL/1189' MSL.
Trees 963' from DER, 380' left of centerline, 100' AGL/1189' MSL.
Rwy 28, trees beginning 877' from DER, 302' right of centerline, up to 100' AGL/1159' MSL.
Trees 324' from DER, 494' right of centerline, 100' AGL/1169' MSL.
Vehicles on road beginning 228' from DER, extending from 542' right to 674' left of centerline up to 15' AGL/1084' MSL.

MT. VERNON, OH
KNOX COUNTY (4I3)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 28, trees 2121' from DER, 361' right of centerline, 47' AGL/1246' MSL.

MUNCIE, IN
DELAWARE COUNTY RGNL (MIE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A 12DEC13 (13346) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 3, pole 717' from DER, 596' right of centerline, 19' AGL/954' MSL.
Trees beginning 771' from DER, 413' right of centerline, up to 56' AGL/991' MSL.
Trees beginning 2463' from DER, 44' left of centerline, up to 76' AGL/1007' MSL.
Towers and pole 3802' from DER, 702' left of centerline, up to 121' AGL/1049' MSL.
Rwy 14, trees beginning 2062' from DER, 1005' right of centerline, up to 68' AGL/1013' MSL.
Rwy 21, rising terrain beginning 6' from DER, 304' right of centerline, up to 943' MSL.
Flag pole 851' from DER, 627' left of centerline, 25' AGL/962' MSL.
Building 941' from DER, 670' left of centerline, 32' AGL/969' MSL.
Trees beginning 946' from DER, 39' left of centerline, up to 81' AGL/1033' MSL.
Trees beginning 1119' from DER, 207' right of centerline, up to 96' AGL/1032' MSL.
Rwy 32, trees and bushes beginning 86' from DER, 447' left of centerline, up to 17' AGL/940' MSL.

NAPOLEON, OH
HENRY COUNTY (7W5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18NOV10 (10322) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees 1128' from DER, 774' left of centerline, 100' AGL/784' MSL.
Trees 1910' from DER, 419' right of centerline, 100' AGL/784' MSL.
Rwy 28, vehicle on road 270' from DER, on centerline, 15' AGL/699' MSL.
Trees 575' from DER, 427' right of centerline, 100' AGL/784' MSL.
Trees 2140' from DER, 389' left of centerline, 100' AGL/789' MSL.
Trees 3167' from DER, 390' right of centerline, 100' AGL/784' MSL.

NAPPANEE, IN
NAPPANEE MUNI (C03)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19FEB81 (81036) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 300-1.

NEW CASTLE, IN
NEW CASTLE-HENRY COUNTY MARLATT FIELD (UWL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 20JUN19 (19171) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees beginning 1657' from DER, 156' right of centerline, up to 1142' MSL.
Tree 1821' from DER, 92' left of centerline, 65' AGL/1146' MSL.
Trees beginning 1865' from DER, 22' right of centerline, up to 69' AGL/1153' MSL.
Tree 1931' from DER, 697' right of centerline, 1154' MSL.
Tree 1932' from DER, 817' right of centerline, 91' AGL/1176' MSL.
Trees beginning 1951' from DER, 571' right of centerline, up to 93' AGL/1179' MSL.
Trees beginning 2029' from DER, 530' right of centerline, up to 103' AGL/1190' MSL.
Rwy 28, pole, traverse way beginning 160' from DER, 464' right of centerline, up to 30' AGL/1101' MSL.
Pole beginning 346' from DER, 461' right of centerline, up to 32' AGL/1105' MSL.
Pole 444' from DER, 462' right of centerline, 35' AGL/1107' MSL.

NEW LEXINGTON, OH
PERRY COUNTY (I86)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 30AUG84 (84243) (FAA)
TAKEOFF MINIMUMS:
Rwys 8, 26, 300-1.

NEW PHILADELPHIA, OH
HARRY CLEVER FIELD (PHD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 01FEB18 (18032) (FAA)
TAKEOFF MINIMUMS:
Rwys 12, 30, NA - Environmental.
Rwy 15, 500-2½ or std. with a min. climb to 420' per NM to 1500.
Rwy 33, std. w/min. climb of 210' per NM to 1500.
DEPARTURE PROCEDURE:
Rwy 15, climb heading 147° to 1500 before turning.
Rwy 33, climb heading 327° to 1600 before turning.
TAKEOFF OBSTACLE NOTES:
Rwy 15, poles beginning 194' from DER, 431' left of centerline, up to 56' AGL/935' MSL.
Vehicle on road beginning 240' from DER, 146' left of centerline, up to 15' AGL/902' MSL.
Rising terrain and trees beginning 320' from DER, 37' left of centerline, up to 100' AGL/1319' MSL.
Siren 383' from DER, 584' left of centerline, 81' AGL/940' MSL.
Tower 3659' from DER, 9' left of centerline, 124' AGL/983' MSL.
Vehicle on road beginning 78' from DER, 45' right of centerline, up to 15' AGL/904' MSL.
Trees beginning 79' from DER, 13' right of centerline, up to 100' AGL/972' MSL.
Poles beginning 678' from DER, 3' right of centerline, up to 61' AGL/920' MSL.
Rwy 33, trees beginning 41' from DER, 64' left of centerline, up to 100' AGL/965' MSL.
Vehicle on road beginning 108' from DER, 26' left of centerline, up to 15' AGL/914' MSL.
Headstone 142' from DER, 272' left of centerline, 6' AGL/900' MSL.
Building 167' from DER, 511' left of centerline, 34' AGL/928' MSL.
OL on pole 261' from DER, 213' left of centerline, 37' AGL/931' MSL.
Vehicle on road beginning 12' from DER, 28' right of centerline, up to 15' AGL/914' MSL.
Rising terrain and trees beginning 36' from DER, 22' right of centerline, up to 100' AGL/984' MSL.
Fence 83' from DER, 217' right of centerline, 6' AGL/900' MSL.
Poles beginning 502' from DER, 368' right of centerline, up to 28' AGL/924' MSL.
Tower 2.6 NM from DER, 2107' right of centerline, 406' AGL/1319' MSL.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

NEWARK, OH

NEWARK-HEATH (VTA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, 600-3 w/min. climb of 225' per NM to 1700 or std. w/min climb of 300' per NM to 1600 or 1000-3 for VCOA.

Rwy 27, 400-2½ or std. w/min. climb of 220' per NM to 1200.

DEPARTURE PROCEDURE:

Rwy 9, climb heading 093° to 1700 before proceeding on course.

Rwy 27, climb on heading 273º to 1400 before proceeding on course.

VCOA:

Rwy 9, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Newark-Heath Airport at or above 1700 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 9, tree, terrain beginning 25' from DER, 173' left of centerline, up to 889' MSL.
Lighting 40' from DER, 77' right of centerline, 871' MSL.
Building 93' from DER, 510' right of centerline, 879' MSL.
Transmission line, fence beginning 105' from DER, 249' right of centerline, up to 907' MSL.
Trees, poles, building beginning 107' from DER, 454' left of centerline, up to 71' AGL/934' MSL.
Tree 237' from DER, 554' right of centerline, 922' MSL.
Trees, pole beginning 558' from DER, 29' right of centerline, up to 942' MSL.
Tree 2651' from DER, 263' right of centerline, 949' MSL.
Trees beginning 2741' from DER, 473' right of centerline, up to 953' MSL.
Tree 4800' from DER, 1713' right of centerline, 1005' MSL.
Trees beginning 4884' from DER, 1409' right of centerline, up to 1008' MSL.
Trees, buildings beginning 5018' from DER, 1522' right of centerline, up to 1018' MSL.
Trees, building beginning 5164' from DER, 1437' right of centerline, up to 1032' MSL.
Trees, buildings beginning 5288' from DER, 1367' right of centerline, up to 1041' MSL.
Trees, building beginning 5679' from DER, 1429' right of centerline, up to 1055' MSL.
Trees beginning 5909' from DER, 1352' right of centerline, up to 1058' MSL.
Tree 1 NM from DER, 1488' right of centerline, 1065' MSL.
Trees, building beginning 1 NM from DER, 1429' right of centerline, up to 1076' MSL.
Trees beginning 1 NM from DER, 1430' right of centerline, up to 1101' MSL.
Trees beginning 1 NM from DER, 1834' right of centerline, up to 1110' MSL.
Trees beginning 1.1 NM from DER, 1580' right of centerline, up to 69' AGL/1118' MSL.
Trees beginning 1.1 NM from DER, 1546' right of centerline, up to 1120' MSL.
Trees, building beginning 1.1 NM from DER, 1318' right of centerline, up to 1121' MSL.
Trees beginning 1.1 NM from DER, 1230' right of centerline, up to 1122' MSL.
Trees buildings beginning 1.1 NM from DER, 1399' right of centerline, up to 1125' MSL.
Trees beginning 1.3 NM from DER, 1932' right of centerline, up to 1130' MSL.
Tree 1.3 NM from DER, 2058' right of centerline, 1132' MSL.
Trees, buildings beginning 1.3 NM from DER, 297' right of centerline, up to 90' AGL/1151' MSL.
Trees beginning 1.3 NM from DER, 223' left of centerline, up to 1121' MSL.
Trees beginning 1.3 NM from DER, 168' left of centerline, up to 1127' MSL.
Trees beginning 1.3 NM from DER, 66' left of centerline, up to 1150' MSL.
Trees beginning 1.4 NM from DER, 62' left of centerline, up to 151' AGL/1151' MSL.
Trees beginning 1.6 NM from DER, 659' right of centerline, up to 1163' MSL.
Trees beginning 1.6 NM from DER, 8' right of centerline, up to 1168' MSL.
Trees, building beginning 1.6 NM from DER, 107' right of centerline, up to 82' AGL/1179' MSL.
Antenna 2.4 NM from DER, 2425' left of centerline, 360' AGL/1394' MSL.
Tower 2.4 NM from DER, 2371' left of centerline, 362' AGL/1396' MSL.
Antenna 2.4 NM from DER, 2430' left of centerline, 360' AGL/1396' MSL.

Rwy 27, terrain 2' from DER, 251' right of centerline, 884' MSL.
Terrain 11' from DER, 486' right of centerline, 886' MSL.
Pole, vehicles on road beginning 49' from DER, 199' left of centerline, up to 910' MSL.
Pole, vehicles on road beginning 188' from DER, 32' left of centerline, up to 29' AGL/912' MSL.
Trees, poles, bldg twr beginning 543' from DER, 120' left of centerline, up to 968' MSL.
Vehicles on road 604' from DER, 31' right of centerline, 902' MSL.
Pole 697' from DER, 139' right of centerline, 919' MSL.
Poles, building beginning 796' from DER, 206' right of centerline, up to 920' MSL.
Pole 972' from DER, 313' right of centerline, 926' MSL.
Trees beginning 1033' from DER, 11' right of centerline, up to 933' MSL.
Trees, pole beginning 1196' from DER, 64' right of centerline, up to 963' MSL.
Tree 1533' from DER, 7' right of centerline, 971' MSL.
Tree 1591' from DER, 682' right of centerline, 973' MSL.
Trees beginning 1645' from DER, 189' right of centerline, up to 976' MSL.
Trees beginning 1750' from DER, 321' right of centerline, up to 979' MSL.
Trees, poles beginning 2005' from DER, 58' right of centerline, up to 985' MSL.
Tree, poles beginning 2270' from DER, 154' left of centerline, up to 970' MSL.
Tree 3354' from DER, 1131' right of centerline, 993' MSL.
Tree 3381' from DER, 384' left of centerline, 974' MSL.
Tree 3776' from DER, 1384' left of centerline, 983' MSL.
Tree 3791' from DER, 1212' right of centerline, 996' MSL.
Tree 3892' from DER, 1160' right of centerline, 998' MSL.
Tree 3899' from DER, 1424' left of centerline, 992' MSL.

CON'T

NEWARK, OH (CON'T)

NEWARK-HEATH (VTA) (CON'T)

Rwy 27 (CON'T), tree 3984' from DER, 1537' left of centerline, 994' MSL.
Trees beginning 4015' from DER, 1135' right of centerline, up to 1003' MSL.
Trees beginning 4020' from DER, 1325' left of centerline, up to 998' MSL.
Trees beginning 4550' from DER, 755' left of centerline, up to 1009' MSL.
Tree 4739' from DER, 913' left of centerline, 1011' MSL.
Trees beginning 4835' from DER, 634' left of centerline, up to 1021' MSL.
Trees beginning 4982' from DER, 966' left of centerline, up to 1029' MSL.
Tree 1.3 NM from DER, 1932' right of centerline, 1094' MSL.
Tree 1.3 NM from DER, 2173' right of centerline, 1099' MSL.
Trees beginning 1.3 NM from DER, 1874' right of centerline, up to 1109' MSL.
Tree 2.1 NM from DER, 2988' right of centerline, 121' AGL/1204' MSL.

NORTH VERNON, IN

NORTH VERNON (OVO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27AUG09 (09239) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, tree 1866' from DER, 690' left of centerline, 62' AGL/821' MSL.
Tree 428' from DER, 516' right of centerline, 22' AGL/781' MSL.
Rwy 15, fence beginning 259' from DER, crossing left to right, 11' AGL/765' MSL.
Trees beginning 469' from DER, 100' left of centerline, up to 115' AGL/864' MSL.
Tree 1509' from DER, 472' right of centerline, 59' AGL/818' MSL.
Rwy 23, trees beginning 1856' from DER, 94' left of centerline, up to 93' AGL/842' MSL.
Tree 3348' from DER 675' right of centerline, 97' AGL/846' MSL.
Rwy 33, fence beginning 304' from DER, 138' left of centerline, 11' AGL/761' MSL.
Tree 2592' from DER, 596' left of centerline, 90' AGL/839' MSL.
Power pole 751' from DER, 102' right of centerline, 25' AGL/774' MSL.

NORWALK, OH

NORWALK-HURON COUNTY (5A1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 27OCT83 (83286) (FAA)

TAKEOFF MINIMUMS:

Rwys 10, 28, 300-1.

OTTAWA, OH

PUTNAM COUNTY (OWX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27AUG09 (09239) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, trees 1342' from DER, 578' right of centerline, 100' AGL/854' MSL.
Tree 1978' from DER, 5' left of centerline, 50' AGL/814' MSL.
Rwy 27, road 1' from DER, 219' right of centerline, 15' AGL/768' MSL.
Multiple trees and pole beginning 1606' from DER, 303' left of centerline, up to 100' AGL/854' MSL.

OXFORD, OH

MIAMI UNIVERSITY (OXD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 31MAY12 (12152) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 314' from DER, left and right of centerline, up to 100' AGL/1129' MSL.
Vehicles on roadway beginning 320' from DER, 282' right of centerline, up to 15' AGL/1044' MSL.
Poles beginning 695' from DER, 209' left of centerline, up to 35' AGL/1061' MSL.
Rod on building 764' from DER, 501' left of centerline, 33' AGL/1060' MSL.
Light poles beginning 966' from DER, 518' right of centerline, up to 70' AGL/1084' MSL.
Rwy 23, vehicles on roadway beginning 136' from DER, left and right of centerline, up to 15' AGL/1054' MSL.
Poles beginning 139' from DER, 178' left of centerline, up to 33' AGL/1072' MSL.
Trees beginning 256' from DER, left and right of centerline, up to 100' AGL/1149' MSL.
Buildings beginning 269' from DER, left and right of centerline, up to 33' AGL/1068' MSL.
Chimney 327' from DER, 432' left of centerline, 34' AGL/ 1070' MSL.
Antenna 1076' from DER, 243' left of centerline, 43' AGL/1073' MSL.

PAINESVILLE, OH
CONCORD AIRPARK (2G1)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 18NOV10 (10322) (FAA)
TAKEOFF MINIMUMS:
Rwy 20, 400-2¾ or std. w/ a min. climb of 400' per NM to 1500.
DEPARTURE PROCEDURE:
Rwy 20, climb heading 209° to 1500 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 2, trees beginning 336' from DER, 42' left of centerline, up to 100' AGL/1039' MSL.
Trees beginning 1064' from DER, 217' right of centerline, up to 100' AGL/1039' MSL.
Rwy 20, trees beginning 131' from DER, left and right of centerline, up to 100' AGL/1220' MSL.
Tower 1.2 NM from DER, 2020' right of centerline, 114' AGL/1223' MSL.

PERU, IN
PERU MUNI (I76)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 18JAN07 (07018) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 1, multiple trees beginning 2201' from DER, 321' left of centerline, 100' AGL/879' MSL.
Road plus vehicle beginning 407' from DER, 1524' right of centerline, 15' AGL/794' MSL.
Trees beginning 1656' from DER, 815' right of centerline, 100' AGL/879' MSL.
Rwy 19, multiple trees beginning 44' from DER, 204' left of centerline, 100' AGL/869' MSL.
Multiple trees beginning 588' from DER, 134' right of centerline, 100' AGL/859' MSL.

PIQUA, OH
PIQUA AIRPORT-HARTZELL FIELD (I17)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20OCT11 (11293) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 8, tree 2006' from DER, 515' left of centerline, 76' AGL/1062' MSL.
Rwy 26, vehicles on roadway, beginning 347' from DER, 578' left of centerline, up to 15' AGL/1024' MSL.
Trees and grain bin beginning 61' from DER, 321' left of centerline, up to 100' AGL/1119' MSL.

PLYMOUTH, IN
PLYMOUTH MUNI (C65)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18JUL74 (74199) (FAA)
TAKEOFF MINIMUMS:
Rwys 10, 28, 300-1.

PORT CLINTON, OH
ERIE-OTTAWA INTL (PCW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6A 12NOV15 (15316) (FAA)
TAKEOFF MINIMUMS:
Rwy 27, std. w/ min. climb of 250' per NM to 1600 or 1000-2½ for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 27, for climb in visual conditions: cross Carl R Keller Field at or above 1400 MSL before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 9, multiple trees and poles beginning 417' from DER, 398' left of centerline, up to 78' AGL/668' MSL.
Multiple trees and poles beginning 407' from DER, 550' right of centerline, up to 67' AGL/657' MSL.
Rwy 18, multiple trees beginning 626' from DER, 424' left of centerline, up to 100' AGL/684' MSL.
Trees 511' from DER, 471' right of centerline, 100' AGL/684' MSL.
Vehicles on road 475' from DER, 31' right of centerline, 15' AGL/604' MSL.
Rwy 27, multiple trees beginning 1210' from DER, 176' left of centerline, up to 65' AGL/650' MSL.
Pole 1066' from DER, 609' right of centerline, 35' AGL/620' MSL.
Multiple trees beginning 2558' from DER, 311' right of centerline, up to 91' AGL/676' MSL.
Rwy 36, trees 558' from DER, 406' left of centerline, 100' AGL/684' MSL.
Trees 770' from DER, 564' right of centerline, 100' AGL/679' MSL.
Trees 5097' from DER, 1661' right of centerline, 100' AGL/719' MSL.

PORTLAND, IN
PORTLAND MUNI (PLD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, poles, trees and fence beginning 29' from DER, 348' right of centerline, up to 53' AGL/979' MSL.
Poles and trees beginning 102' from DER, 514' left of centerline, up to 51' AGL/972' MSL.
Trees and poles beginning 1026' from DER, 80' right of centerline, up to 71' AGL/994' MSL.
Trees and poles beginning 1036' from DER, 12' left of centerline, up to 46' AGL/972' MSL.
Trees beginning 2044' from DER, 47' right of centerline, up to 113' AGL/1035' MSL.
Trees beginning 2797' from DER, 15' left of centerline, up to 104' AGL/1027' MSL.
Rwy 27, Trees beginning 262' from DER, 317' left of centerline, up to 28' AGL/932' MSL.
Trees 293' from DER, 474' right of centerline, 16' AGL/922' MSL.
Building 1124' from DER, 617' right of centerline, 32' AGL/942' MSL.

PORTSMOUTH, OH
GREATER PORTSMOUTH RGNL (PMH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 31MAY12 (12152) (FAA)
TAKEOFF MINIMUMS:
Rwy 18, 300-1¾ or std. w/min. climb of 257' per NM to 1100.
DEPARTURE PROCEDURE:
Rwy 18, climb heading 170° to 1300 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 4' from DER, 290' left of centerline, up to 100' AGL/721' MSL.
Trees beginning 678' from DER, 495' right of centerline, up to 100' AGL/931' MSL.
Rwy 36, trees beginning 1' from DER, 180' left of centerline, up to 100' AGL/780' MSL.
Trees beginning 687' from DER, 388' right of centerline, up to 100' AGL/710' MSL.

RAVENNA, OH
PORTAGE COUNTY (POV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 18NOV10 (10322) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 9, power poles and road 19' from DER, 368' left of centerline, up to 35' AGL/1238' MSL.
Power pole 413' from DER, 549' right of centerline, 35' AGL/1218' MSL.
Rwy 27, tree 751' from DER, 148' right of centerline, 56' AGL/1226' MSL.
Pole 105' from DER, 523' right of centerline, 35'AGL/1200' MSL.
Power poles 357' from DER, 408' left of centerline, up to 35' AGL/1244' MSL.

RENSSELAER, IN
JASPER COUNTY (RZL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 14JAN88 (88014) (FAA)
TAKEOFF MINIMUMS:
Rwys 9, 18, 27, 36, 300-1.
DEPARTURE PROCEDURE:
Rwys 9, 18, 27, 36, climb to 1100 on runway heading before proceeding on course.

RICHMOND, IN
RICHMOND MUNI (RID)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 02JUL09 (09183) (FAA)
TAKEOFF MINIMUMS:
Rwys 10, 28, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 15, tree 2970' from DER, 198' right of centerline, 86' AGL/1226' MSL.
Rwy 24, road and antenna beginning 298' from DER, 7' right of centerline, up to 22' AGL/1156' MSL.
Trees beginning 1185' from DER, 529' left of centerline, up to 40' AGL/1174' MSL.
Obstruction light on localizer 300' from DER, on centerline, 8' AGL/1142' MSL.
Rwy 33, trees beginning 515' from DER, 283' right of centerline, up to 48' AGL/1175' MSL.
Antenna and trees beginning 1041' from DER, 141' left of centerline, up to 71' AGL/1198' MSL.

ROCHESTER, IN

FULTON COUNTY (RCR)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25SEP08 (08269) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 11, terrain 469' right of centerline, 797' MSL.
Trees beginning 619' from DER, 181' right of centerline, up to 105' AGL/894' MSL.
Trees beginning 2534' from DER, 27' left of centerline, up to 97' AGL/886' MSL.
Rwy 29, pole 1' from DER, 480' left of centerline, 28' AGL/817' MSL.
Pole 195' from DER, 460' left of centerline, 28' AGL/817' MSL.
Pole 524' from DER, 503' left of centerline, 33' AGL/823' MSL.
Vehicle on road 578' from DER, 100' left of centerline, 15' AGL/804' MSL.
Vent on building 890' from DER, 262' left of centerline, 23' AGL/812' MSL.
Trees beginning 614' from DER, 355' left of centerline, up to 87' AGL/876' MSL.
Vent on building 229' from DER, 525' right of centerline, 40' AGL/829' MSL.
Pole 843' from DER, 94' right of centerline, 23' AGL/812' MSL.
Trees beginning 883' from DER, 152' right of centerline, up to 103' AGL/892' MSL.

ST. CLAIRSVILLE, OH

ALDERMAN (2P7)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 16DEC10 (10350) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 300-1¼ or std. w/min. climb of 395' per NM to 1800.
Rwy 19, 500-3 or std. w/min. climb of 244' per NM to 1800.

DEPARTURE PROCEDURE:

Rwy 1, Climb heading 013° to 1800 before turning right.
Rwy 19, Climb heading 193° to 1800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 1, trees 49' from DER, 170' left of centerline, up to 90' AGL/1269' MSL.
Trees 179' from DER, 53' left of centerline, up to 90' AGL/1249' MSL.
Trees 210' from DER, 37' right of centerline, up to 90' AGL/1249' MSL.
Rwy 19, trees 141' from DER, 138' left of centerline, up to 90' AGL/1229' MSL.
Trees 154' from DER, 168' right of centerline up to 90' AGL/1249' MSL.
Trees 385' from DER, 34' right of centerline, up to 90' AGL/1229' MSL.
Trees 1764' from DER, 958' right of centerline, up to 90' AGL/1309' MSL.

SALEM, OH

SALEM AIRPARK INC (38D)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

TAKEOFF MINIMUMS:

Rwys 10R, 28L, NA - environmental.
Rwy 10L, std. w/ min. climb of 217' per NM to 1800, or 1400-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 28R, climb on heading 277° to 2200 before turning left.

VCOA:

Rwy 10L, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Salem Airpark Inc at or above 2400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, tower, 3186' from DER, 654' left of centerline, 72' AGL/1305' MSL.

SEBRING, OH

TRI-CITY (3G6)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05FEB76 (76036) (FAA)

DEPARTURE PROCEDURE:

Rwys 17, 35, climb runway heading to 3000 before turning east.

SEYMOUR, IN

FREEMAN MUNI (SER)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10MAY07 (07130) (FAA)

DEPARTURE PROCEDURE:

Rwy 5, climb heading 046° to 1100 before turning left.
Rwy 14, climb heading 136° to 1100 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 5, multiple trees beginning 845' from DER, 523' left of centerline, up to 90' AGL/669' MSL.
Multiple towers beginning 2870' from DER, 1231' left of centerline, up to 73' AGL/657' MSL.
Multiple trees beginning 1035' from DER, 691' right of centerline, up to 73' AGL/652' MSL.
Rwy 14, multiple trees beginning 2285' from DER, 309' right of centerline, up to 78' AGL/657' MSL.
Rwy 32, multiple trees beginning 2339' from DER, 383' left of centerline, up to 63' AGL/662' MSL.

SHELBY, OH
SHELBY COMMUNITY (12G)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 15AUG19 (19227) (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 21, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 9' from DER, 171' left of centerline, up to 100' AGL/1219' MSL.
Vehicles beginning 24' from DER, 303' left of centerline, up to 15' AGL/1134' MSL.
Trees beginning 338' from DER, 447' right of centerline, up to 100' AGL/1229' MSL.
Transmission line beginning 2127' from DER, 170' left and right of centerline, up to 91' AGL/1200' MSL.
Rwy 36, vehicles beginning 30' from DER, left and right of centerline, up to 17' AGL/1136' MSL.
Buildings beginning 63' from DER, left and right of centerline, up to 53' AGL/1172' MSL.
Trees beginning 561' from DER, 85' left of centerline, up to 100' AGL/1209' MSL.
Grain silos beginning 1799' from DER, 225' right of centerline, up to 100' AGL/1229' MSL.

SHELBYVILLE, IN
SHELBYVILLE MUNI (GEZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 20OCT11 (11293) (FAA)
TAKEOFF MINIMUMS:
Rwys 9,27, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 1, trees 1111' from DER, 753' right of centerline, 69' AGL/869' MSL.
Rwy 19, trees 2180' from DER, 261' right of centerline, 100' AGL/899' MSL.
Trees 2696' from DER, 498'left of centerline, 100' AGL/899' MSL.

SIDNEY, OH
SIDNEY MUNI (SCA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 06FEB14 (14037) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 1695' from DER, 686' right of centerline, up to 100' AGL/1149' MSL.
Power poles beginning 2125' from DER, crossing centerline, up to 100' AGL/1149' MSL.
Trees beginning 3071' from DER, 402' right of centerline, up to 100' AGL/1149' MSL.
Tree 3247' from DER, 894' left of centerline, 100' AGL/1149' MSL.
Trees beginning 3723' from DER, 208' left of centerline, up to 100' AGL/1149' MSL.
Rwy 10, terrain beginning 26' from DER, 72' right of centerline, up to 1048' MSL.
Terrain beginning 36' from DER, 109' left of centerline, up to 1048' MSL.
Tree 834' from DER, 238' left of centerline, 49' AGL/1100' MSL.
Trees beginning 1060' from DER, 492' right of centerline, up to 100' AGL/1154' MSL.
Trees beginning 3577' from DER, 48' right of centerline, up to 90' AGL/1141' MSL.
Rwy 23, vehicles and aircraft on ramp beginning at DER, 138' left of centerline, up to 15' AGL/1054' MSL.
Trees beginning at DER, 308' left of centerline, up to 100' AGL/1149' MSL.
Vehicles on road beginning 110' from DER, crossing centerline, up to 15' AGL/1054' MSL.
Trees beginning 902' from DER, crossing centerline, up to 100' AGL/1149' MSL.
Rwy 28, sign 5' from DER, 56' left of centerline, 2' AGL/1041' MSL.
Trees beginning 1261' from DER, 405' right of centerline, up to 71' AGL/1102' MSL.
Trees beginning 1658' from DER, crossing centerline, up to 93' AGL/1114' MSL.

SOUTH BEND, IN
SOUTH BEND (SBN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9 27AUG09 (09239) (FAA)
TAKEOFF MINIMUMS:
Rwy 27R, 300-1¼ or std. w/min. climb of 240' per NM to 1100. Alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1800' prior to DER.
DEPARTURE PROCEDURE:
Rwy 9R, climb heading 092° to 2000 before turning South.
Rwy 18, climb heading 182° to 2000 before turning East.
TAKEOFF OBSTACLE NOTES:
Rwy 9L, tree 1226' from DER, 367' left of centerline, 60' AGL/831' MSL.
Tree 1332' from DER, 93' right of centerline, 50' AGL/822' MSL.
Transmission tower 2159' from DER, 392' left of centerline, 117' AGL/872' MSL.
Rwy 18, power line and fence 199' from DER, left and right of centerline, up to 20' AGL/775' MSL.
Multiple trees and poles beginning 684' from DER, from 829' left to 720' right of centerline, up to 80' AGL/849' MSL.
Rwy 27L, light pole 665' from DER, 479' left of centerline, 22' AGL/810' MSL.
Trees beginning 1190' from DER, from 948' left to 900' right of centerline, up to 100' AGL/923' MSL.
Rwy 27R, tree 207' from DER, 502' right of centerline, 60' AGL/849' MSL.
Tree 1541' from DER, 93' left of centerline, 60' AGL/850' MSL.
Transmission tower 5542' from DER, 1922' right of centerline, 100' AGL/954' MSL.
CON'T

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

SOUTH BEND, IN (CON'T)

SOUTH BEND (SBN) (CON'T)

Rwy 36, terrain 98' from DER, 390' left of centerline, 803' MSL.
Barricade 130' from DER, 418' left of centerline, 10' AGL/807' MSL.
Trees beginning 340' from DER, 332' right of centerline, up to 36' AGL/815' MSL.
Tree 2726' from DER, 443' left of centerline, 60' AGL/867' MSL.

SPRINGFIELD, OH

SPRINGFIELD-BECKLEY MUNI (SGH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05JUN08 (08157) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 6, Trees beginning 642' from DER, 664' left of centerline, up to 96' AGL/1133' MSL.
Tree 66' from DER, 514' right of centerline, 27' AGL/1064' MSL.
Rwy 15, Multiple trees beginning 1357' from DER, 160' left of centerline, up to 86' AGL/1127' MSL.
Tree 1763' from DER, 410' right of centerline, 51' AGL/1092' MSL.
Rwy 24, Trees beginning 1387' from DER, 66' left of centerline, up to 58' AGL/1109' MSL.
Windsock 1' from DER, 228' right of centerline, 20' AGL/1071' MSL.
Rwy 33, Tree 183' from DER, 438' right of centerline, 24' AGL/1066' MSL.

STEUBENVILLE, OH

JEFFERSON COUNTY AIRPARK (2G2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10NOV16 (16315) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, 300-1¾ or std. w/min. climb of 280' per NM to 1600.

DEPARTURE PROCEDURE:

Rwy 14, climb on heading 142° to 2100 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 32' from DER, 500' right of centerline, 73' AGL/1240' MSL.
Tree 58' from DER, 448' right of centerline, 71' AGL/1245' MSL.
Trees beginning 113' from DER, 329' left of centerline, up to 43' AGL/1207' MSL.
Trees, beginning 162' from DER, 210' right of centerline, up to 74' AGL/1251' MSL.
Trees, beginning 196' from DER, 186' left of centerline, up to 60' AGL/1208' MSL.
Trees, beginning 221' from DER, 184' left of centerline, up to 54' AGL/1209' MSL.
Trees, beginning 240' from DER, 24' right of centerline, up to 96' AGL/1258' MSL.
Tree 376' from DER, 513' left of centerline, 96' AGL/1235' MSL.
Rwy 32, tree, bush, beginning 0' from DER, 334' left of centerline, up to 59' AGL/1244' MSL.
Tree, ground, bush, beginning 113' from DER, 392' left of centerline, up to 67' AGL/1246' MSL.
Ant 1.3 NM from DER, 760' left of centerline, 193' AGL/1405' MSL.
Tower 1.3 NM from DER, 764' left of centerline, 199' AGL/1411' MSL.

SULLIVAN, IN

SULLIVAN COUNTY (SIV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 30DEC99 (99364) (FAA)

TAKEOFF MINIMUMS:

Rwys 18, 36, 200-1 or std. with a min. climb of 320' per NM to 1800.

DEPARTURE PROCEDURE:

Rwy 18, climb runway heading to 1500 before turning west on course.
Rwys 18,36, climb runway heading to 1800 before turning east on course.

TELL CITY, IN

PERRY COUNTY MUNI (TEL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 25AUG11 (11237) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, fence, terrain, buildings, and trees beginning 6' from DER, 131' left of centerline, up to 49' AGL/ 740' MSL.
Terrain, trees, and poles beginning 93' from DER, 19' right of centerline, up to 30' AGL/750' MSL.
Rwy 31, trees, terrain, and pole beginning 125' from DER, 141' left of centerline, up to 25' AGL/702' MSL.
Trees, terrain. and tower beginning 68' from DER, 64' right of centerline, up to 56' AGL/ 648' MSL.

TERRE HAUTE, IN

SKY KING (3I3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 08NOV18 (18312) (FAA)

TAKEOFF MINIMUMS:

Rwys 18 ,36, NA - Environmental.

DEPARTURE PROCEDURE:

Rwy 27, climb heading 268° to 1300 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 8, multiple power lines beginning 34' from DER, left and right of centerline, up to 30' AGL/529' MSL.
Vehicle on road beginning 54' from DER, left and right of centerline, up to 15' AGL/519' MSL.
Fence beginning 33' from DER, left and right of centerline, up to 6' AGL/505' MSL.
Multiple buildings beginning 167' from DER, left and right of centerline, up to 60' AGL/589' MSL.
Rwy 26, trees beginning abeam DER, 235' right of centerline, up to 60' AGL/559' MSL.
Trees beginning abeam DER, 382' left of centerline, up to 60' AGL/539' MSL.
Trees beginning 1057' from DER, 47' left of centerline, up to 60' AGL/539' MSL.

TERRE HAUTE RGNL (HUF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26APR18 (18116) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 5, Terrain beginning 118' from DER, left and right of centerline, 0' AGL/591' MSL.
Floodlight 967' from DER, 673' right of centerline, 32' AGL/621' MSL.
Trees beginning 2019' from DER, 317' left of centerline, up to 100' AGL/689' MSL.
Tree 3340' from DER, 533' right of centerline, 79' AGL/668' MSL.
Rwy 14, trees beginning 1266' from DER, 570' left of centerline, up to 100' AGL/689' MSL.
Trees beginning 1,520' from DER 462' right of centerline, up to 100' AGL/689' MSL.
Power lines 3084' from DER, left and right of centerline, 98' AGL/682' MSL.
Rwy 23, trees beginning 412' from DER, 537' left of centerline, up to 34' AGL/593' MSL.
Tree 1201' from DER, 376' right of centerline, 38' AGL/607' MSL.
Rwy 32, trees and a pole beginning 397' from DER, 308' left of centerline, up to 82' AGL/651' MSL.
Tree 1195' from DER 544' left of centerline, 68' AGL/637' MSL.
Trees beginning 2597' from DER, 340' right of centerline, up to 100' AGL/669' MSL.

TIFFIN, OH

SENECA COUNTY(16G)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 02JUL09 (09183) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 6, multiple trees and buildings beginning 2' from DER, 186' right of centerline, up to 98' AGL/868' MSL.
Antenna 129' from DER, 438' left of centerline, 66' AGL/836' MSL.
Pole 408' from DER, 477' left of centerline, 39' AGL/809' MSL.
Vehicle on road 501' from DER, 414' left of centerline, 26' AGL/796' MSL.
Trees 2421' from DER, 207' left of centerline, 83' AGL/853' MSL.
Rwy 24, multiple trees beginning 27' from DER, 280' left of centerline, up to 124' AGL/904' MSL.
Building 1291' from DER, 528' left of centerline, 44' AGL/824' MSL.
Multiple trees beginning 1071' from DER, 337' right of centerline, up to 92' AGL/872' MSL.
Pole 1460' from DER, 562' right of centerline, 48' AGL/828' MSL.

TOLEDO, OH

TOLEDO EXECUTIVE (TDZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 21MAY20 (20142) (FAA)

TAKEOFF MINIMUMS:

Rwy 4, std. w/min. climb of 230' per NM to 2500, or 1300-2½ for VCOA.

DEPARTURE PROCEDURE:

Rwy 4, climb on heading 046° to 2100 before turning left.

Rwy 32, climb on heading 321° to 1400 before turning right.

VCOA:

Rwy 4, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Toledo Executive Airport at or above 1800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, electrical system 10' from DER, 26' left of centerline, 3' AGL/621' MSL.
Sign 22' from DER, 168' right of centerline, 3' AGL/622' MSL.
Vehicle on road, pole beginning 284' from DER, 186' right of centerline, up to 646' MSL.
Tree, pole, vehicle on road beginning 372' from DER, 95' right of centerline, up to 655' MSL.
Trees, vehicle on road beginning 403' from DER, 1' right of centerline, up to 660' MSL.
Vehicle on road 489' from DER, 164' left of centerline, 647' MSL.
Trees, vehicle on road beginning 558' from DER, 1' left of centerline, up to 651' MSL.
Trees beginning 639' from DER, 437' right of centerline, up to 679' MSL.
Trees beginning 785' from DER, 412' right of centerline, up to 681' MSL.
Trees, pole beginning 1096' from DER, 162' right of centerline, up to 694' MSL.
Trees beginning 1996' from DER, 50' left of centerline, up to 680' MSL.
Towers beginning 3309' from DER, 1030' left of centerline, up to 761' MSL.
Rwy 14, sign 23' from DER, 248' left of centerline, 3' AGL/622' MSL.
Sign 39' from DER, 467' left of centerline, 4' AGL/623' MSL.
Vehicle on road beginning 137' from DER, 283' right of centerline, up to 638' MSL.
Vehicle on road, signs, pole beginning 169' from DER, 168' left of centerline, up to 15' AGL/638' MSL.
Vehicle on road, poles beginning 478' from DER, 84' left of centerline, up to 639' MSL.
Vehicle on road beginning 487' from DER, 155' right of centerline, up to 639' MSL.
Poles beginning 573' from DER, 143' left of centerline, up to 20' AGL/640' MSL.
Poles beginning 629' from DER, 384' left of centerline, up to 20' AGL/641' MSL.
Pole 685' from DER, 585' left of centerline, 32' AGL/652' MSL.
Poles, buildings beginning 694' from DER, 428' left of centerline, up to 35' AGL/654' MSL.
Sign 739' from DER, 6' right of centerline, 22' AGL/644' MSL.
Building 996' from DER, 672' left of centerline, 657' MSL.
Poles, building beginning 1043' from DER, 305' left of centerline, up to 45' AGL/664' MSL.
Pole beginning 1285' from DER, 565' left of centerline, up to 47' AGL/667' MSL.
Pole 1419' from DER, 252' right of centerline, 38' AGL/658' MSL.
Pole 1487' from DER, 328' right of centerline, 40' AGL/661' MSL.
Trees beginning 1712' from DER, 72' left of centerline, up to 689' MSL.
Rwy 22, electrical system 10' from DER, 26' left of centerline, 2' AGL/623' MSL.
Electrical system 45' from DER, 299' left of centerline, 4' AGL/624' MSL.
Fence 112' from DER, 311' left of centerline, 7' AGL/627' MSL.
Fence 207' from DER, 298' left of centerline, 9' AGL/629' MSL.
Pole 251' from DER, 467' left of centerline, 35' AGL/655' MSL.
Poles, vehicle on road, tree beginning 251' from DER, 108' left of centerline, up to 40' AGL/660' MSL.
Vehicle on road 568' from DER, 2' right of centerline, 637' MSL.
Poles, transmission line, vehicle on road, tree beginning 582' from DER, 246' right of centerline, up to 48' AGL/671' MSL.
Trees, vehicle on road, sign, poles, transmission lines, fence, bridge beginning 595' from DER, 23' left of centerline, up to 684' MSL.
Tower, transmission line beginning 797' from DER, 307' right of centerline, up to 101' AGL/726' MSL.
Tower, vehicle on road, poles, trees, transmission line beginning 807' from DER, 32' right of centerline, up to 98' AGL/727' MSL.
Tree 2062' from DER, 524' left of centerline, 685' MSL.
Trees beginning 2130' from DER, 589' left of centerline, up to 692' MSL.
Tree 2534' from DER, 1053' left of centerline, 75' AGL/697' MSL.
Rwy 32, fence beginning 43' from DER, 424' left of centerline, up to 7' AGL/626' MSL.
Tree 177' from DER, 521' left of centerline, 648' MSL.
Tree, poles, vehicle on road beginning 242' from DER, 346' left of centerline, up to 662' MSL.
Poles, vehicle on road, trees beginning 556' from DER, 18' left of centerline, up to 40' AGL/681' MSL.
Tree 683' from DER, 373' right of centerline, 640' MSL.
Pole 1042' from DER, 79' right of centerline, 659' MSL.
Transmission line 1092' from DER, 193' right of centerline, 46' AGL/665' MSL.
Pole 1206' from DER, 29' right of centerline, 43' AGL/666' MSL.
Transmission line, poles beginning 1271' from DER, 62' right of centerline, up to 55' AGL/674' MSL.
Transmission lines 1605' from DER, 559' right of centerline, 61' AGL/680' MSL.
Transmission line 1676' from DER, 559' right of centerline, 61' AGL/682' MSL.
Pole, transmission line beginning 1679' from DER, 559' right of centerline, up to 71' AGL/691' MSL.
Poles, transmission lines beginning 1781' from DER, 639' right of centerline, up to 74' AGL/692' MSL.
Trees beginning 1998' from DER, 144' left of centerline, up to 693' MSL.
Pole, tower beginning 2903' from DER, 1189' right of centerline, up to 716' MSL.
Transmission line 3372' from DER, 478' right of centerline, 139' AGL/755' MSL.

TOLEDO, OH (CON'T)

EUGENE F KRANZ TOLEDO EXPRESS (TOL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 05NOV20 (20310) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 7, vehicles on road beginning 246' from DER, 525' right of centerline, up to 10' AGL/671' MSL.
Tree 1339' from DER, 667' left of centerline, 700' MSL.
Trees beginning 1903' from DER, 799' right of centerline, up to 741' MSL.
Tree 2392' from DER, 852' left of centerline, 734' MSL.
Tree 2604' from DER, 1047' left of centerline, 756' MSL.
Rwy 16, terrain 59' from DER, 496' left of centerline, 671' MSL.
Tree 618' from DER, 659' right of centerline, 739' MSL.
Trees beginning 719' from DER, 42' right of centerline, up to 752' MSL.
Tree 985' from DER, 478' left of centerline, 694' MSL.
Tree 1021' from DER, 518' left of centerline, 714' MSL.
Tree 1043' from DER, 571' left of centerline, 730' MSL.
Tree 1139' from DER, 711' left of centerline, 732' MSL.
Tree 1279' from DER, 806' left of centerline, 745' MSL.
Tree 1318' from DER, 689' left of centerline, 753' MSL.
Trees beginning 1388' from DER, 648' left of centerline, up to 757' MSL.
Trees beginning 1491' from DER, 80' left of centerline, up to 758' MSL.
Trees beginning 2607' from DER, 155' right of centerline, up to 765' MSL.
Trees beginning 2704' from DER, 36' right of centerline, up to 767' MSL.
Trees beginning 3029' from DER, 45' right of centerline, up to 786' MSL.
Rwy 25, vegetation 245' from DER, 473' right of centerline, 692' MSL.
Vegetation 485' from DER, 527' right of centerline, 695' MSL.
Tree 2214' from DER, 870' right of centerline, 746' MSL.
Tree 2362' from DER, 907' left of centerline, 780' MSL.
Rwy 34, vehicles on road beginning 247' from DER, 488' left of centerline, up to 10' AGL/689' MSL.
Pole, vehicles on road beginning 445' from DER, 533' left of centerline, up to 38' AGL/713' MSL.
Vehicles on road beginning 574' from DER, 622' right of centerline, up to 10' AGL/689' MSL.
Pole 632' from DER, 539' left of centerline, 38' AGL/714' MSL.
Poles, tree beginning 704' from DER, 522' left of centerline, up to 38' AGL/715' MSL.
Trees, pole beginning 1036' from DER, 411' left of centerline, up to 718' MSL.
Trees beginning 1272' from DER, 156' left of centerline, up to 752' MSL.
Pole 1287' from DER, 699' right of centerline, 36' AGL/711' MSL.
Trees beginning 1826' from DER, 102' right of centerline, up to 760' MSL.
Trees beginning 2489' from DER, 90' left of centerline, up to 761' MSL.
Trees, tower, grain elevator beginning 2726' from DER, 92' left of centerline, up to 780' MSL.
Tree 2912' from DER, 119' right of centerline, 766' MSL.
Trees beginning 2953' from DER, 451' right of centerline, up to 780' MSL.

UPPER SANDUSKY, OH

WYANDOT COUNTY (56D)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15MAY80 (80150) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 300-1.

URBANA, OH

GRIMES FIELD (I74)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 23SEP10 (10266) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 2, numerous trees beginning 995' from DER, 6' left of centerline, up to 100' AGL/1152' MSL.
Numerous trees beginning from 2106' from DER, 327' right of centerline, up to 100' AGL/1140' MSL.
Numerous power poles 1204' from DER, 654' right of centerline, 55' AGL/1125' MSL.
Rwy 20, numerous trees beginning 5' from DER, 487' left of centerline, up to 100' AGL/1111' MSL.
Tank 5459' from DER, 1062' left of centerline, 170' AGL/1195' MSL.
Numerous trees beginning 672' from DER, 92' right of centerline, up to 100' AGL/1120' MSL.

VALPARAISO, IN

PORTER COUNTY RGNL (VPZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14FEB08 (08045) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, Tree 51' from DER, 350' right of centerline, 100' AGL/874' MSL.
Tree 1219' from DER, 775' left of centerline, 57' AGL/807' MSL.
Rwy 18, Tower and multiple trees beginning 140' from DER, 157' right of centerline, up to 100' AGL/865' MSL.
Trees 143' from DER, 71' left of centerline, 100' AGL/865' MSL.
Rwy 27, Multiple trees, 1038' from DER, 308' left of centerline, up to 68' AGL/828' MSL.
Sign, 1847' from DER, 263' right of centerline, 49' AGL/817' MSL.
Rwy 36, Trees 105' from DER, 99' right of centerline, 100' AGL/895' MSL
Trees 108' from DER, 129' left of centerline, 100' AGL/874' MSL.

VAN WERT, OH

VAN WERT COUNTY (VNW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 15JAN09 (09015) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, 300-1¼ or std. w/ min. climb of 306' per NM to 1100.
Rwys 18, 36, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 9, tower 6084' from DER, 1963' left of centerline, 170' AGL/955' MSL.

VERSAILLES, OH

DARKE COUNTY (VES)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 08NOV18 (18312) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, pole 20' from DER, 83' left of centerline, 1006' MSL.
Pole 20' from DER, 81' right of centerline, 1005' MSL.
Tree, antenna, pole, buildings beginning 169' from DER, 357' left of centerline, up to 44' AGL/1045' MSL.
Tree, vehicles on road, buildings beginning 237' from DER, 131' left of centerline, up to 1053' MSL.
Tree, vehicles on road beginning 366' from DER, 15' left of centerline, up to 1072' MSL.
Vehicles on road beginning 410' from DER, left and right of centerline, up to 1017' MSL.
Trees beginning 835' from DER, 688' right of centerline, up to 1086' MSL.
Tree 1066' from DER, 696' right of centerline, 1095' MSL.
Trees beginning 1149' from DER, 472' right of centerline, up to 1101' MSL.
Trees beginning 1341' from DER, 295' right of centerline, up to 1108' MSL.
Trees beginning 1445' from DER, 235' right of centerline, up to 1112' MSL.
Rwy 27, pole 121' from DER, 356' left of centerline, 1028' MSL.
Pole, tree beginning 121' from DER, 447' right of centerline, up to 1037' MSL.
Trees beginning 982' from DER, 503' right of centerline, up to 1043' MSL.
Tree 1404' from DER, 162' left of centerline, 1052' MSL.
Tree 1461' from DER, 64' right of centerline, 1051' MSL.
Trees beginning 1722' from DER, 328' left of centerline, up to 1065' MSL.
Tree 1923' from DER, 353' left of centerline, 1067' MSL.
Trees beginning 2062' from DER, 741' left of centerline, up to 1076' MSL.

WABASH, IN

WABASH MUNI (IWH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10DEC15 (15344) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, trees beginning 194' from DER, left and right of centerline, up to 110' AGL/910' MSL.
Rwy 18, trees beginning 310' from DER, 128' left of centerline, up to 83' AGL/873' MSL.
Rwy 27, poles and power line beginning 484' from DER, left and right of centerline, up to 44' AGL/840' MSL.
Vehicles on road beginning 502' from DER, left and right of centerline, up to 15' AGL/813' MSL.
Tree 517' from DER, 618' left of centerline, 77' AGL/871' MSL.
Trees beginning 624' from DER, left and right of centerline, up to 64' AGL/855' MSL.
Poles and power line beginning 1613' from DER, left and right of centerline, up to 48' AGL/853' MSL.
Rwy 36, buildings beginning 31' from DER, 272' left of centerline, up to 25' AGL/815' MSL.
Trees beginning 459' from DER, left and right of centerline, up to 70' AGL/876' MSL.
Vehicles on road 469' from DER, left and right of centerline, up to 15' AGL/804' MSL.

WADSWORTH, OH

WADSWORTH MUNI (3G3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 08NOV18 (18312) (FAA)

TAKEOFF MINIMUMS:

Rwy 2, 400-2¼ w/min. climb of 280' per NM to 1900 or std. w/min. climb of 445' per NM to 1500 or 1100-3 for VCOA.
Rwy 10, 700-3 or std. w/min. climb of 760' per NM to 1500.
Rwy 20, 300-1⅝ or std. w/min. climb of 380' per NM to 1300.
Rwy 28, 400-2¾ or std. w/min. climb of 475' per NM to 1400.

DEPARTURE PROCEDURE:

Rwy 10, climb heading 097° to 1700 before proceeding on course.
Rwy 28, climb heading 277° to 1500 before turning right.

VCOA:

Rwy 2, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Wadsworth Muni Airport at or above 1900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 2, fence 9' from DER, 268' right of centerline, up to 6' AGL/979' MSL.
Vehicles on road beginning 90' from DER, 368' right of centerline, up to 1001' MSL.
Tree 98' from DER, 197' left of centerline, 1011' MSL.
Trees, vehicles on road, building, power poles beginning 393' from DER, 193' right of centerline, up to 100' AGL/1079' MSL.
Tree, power poles beginning 1220' from DER, 342' left of centerline, up to 100' AGL/1079' MSL.
Tree 1626' from DER, 915' right of centerline, 100' AGL/1109' MSL.
Tree 1852' from DER, 986' right of centerline, 100' AGL/1119' MSL.
Tree 2796' from DER, 1245' right of centerline, 100' AGL/1129' MSL.
Tree 3167' from DER, 1337' right of centerline, 100' AGL/1139' MSL.
Tree 3461' from DER, 1401' right of centerline, 100' AGL/1149' MSL.
Tree 3800' from DER, 1488' right of centerline, 100' AGL/1159' MSL.
Tree 4451' from DER, 1684' right of centerline, 100' AGL/1169' MSL.
Trees beginning 4895' from DER, 1351' right of centerline, up to 100' AGL/1179' MSL.
Tree 5592' from DER, 1977' right of centerline, 100' AGL/1189' MSL.
Tree 5763' from DER, 2016' right of centerline, 100' AGL/1199' MSL.
Trees beginning 5999' from DER, 1592' right of centerline, up to 100' AGL/1209' MSL.
Tree 1.1 NM from DER, 2323' right of centerline, 100' AGL/1219' MSL.
Tree 1.1 NM from DER, 2363' right of centerline, 100' AGL/1229' MSL.
Tree 1.1 NM from DER, 2384' right of centerline, 100' AGL/1239' MSL.
Tree 1.2 NM from DER, 2540' right of centerline, 100' AGL/1249' MSL.
Tree 1.4 NM from DER, 2776' right of centerline, 100' AGL/1259' MSL.
Tree 1.4 NM from DER, 545' left of centerline, 100' AGL/1259' MSL.
Tree 1.4 NM from DER, 2911' right of centerline, 100' AGL/1269' MSL.
Tree 1.5 NM from DER, 2963' right of centerline, 100'AGL/1279' MSL.
Tree 1.5 NM from DER, 614' left of centerline, 100' AGL/1269' MSL.
Tree 1.6 NM from DER, 1988' left of centerline, 100' AGL/1279' MSL.
Tower, tree, tank beginning 1.6 NM from DER, 2010' left of centerline, up to 211' AGL/1368' MSL.
Tree 1.7 NM from DER, 3304' right of centerline, 100' AGL/1289' MSL.
Tree 1.8 NM from DER, 2997' right of centerline, 100' AGL/1299' MSL.
Tree beginning 1.9 NM from DER, 3077' right of centerline, up to 100' AGL/1309' MSL.
Tree 2.4 NM from DER, 4211' right of centerline, 100' AGL/1379' MSL.
Rwy 10, trees beginning 197' from DER, 284' right of centerline, up to 991' MSL.
Tree 254' from DER, 489' right of centerline, 993' MSL.
Trees, vehicles on road beginning 298' from DER, 366' right of centerline, up to 996' MSL.
Trees, vehicles on road beginning 412' from DER, 114' right of centerline, up to 100' AGL/1089' MSL.
Vehicles on road 421' from DER, 445' left of centerline, 1000' MSL.
Vehicles on road beginning 428' from DER, 2' left of centerline, up to 1001' MSL.
Tree 866' from DER, 53' left of centerline, 100' AGL/1087' MSL.
Tree 905' from DER, 719' right of centerline, 100' AGL/1099' MSL.
Tree 1161' from DER, 390' left of centerline, 100' AGL/1109' MSL.
Trees beginning 1241' from DER, 718' left of centerline, up to 100' AGL/1119' MSL.
Trees beginning 1253' from DER, 90' right of centerline, up to 100' AGL/1109' MSL.
Trees beginning 1654' from DER, 637' right of centerline, up to 100' AGL/1129' MSL.
Trees beginning 1985' from DER, 628' right of centerline, up to 100' AGL/1139' MSL.
Tree 2355' from DER, 567' right of centerline, 100' AGL/1149' MSL.
Trees beginning 2422' from DER, 869' right of centerline, up to 100' AGL/1169' MSL.
Trees beginning 2516' from DER, 610' right of centerline, up to 100' AGL/1189' MSL.
Trees beginning 3033' from DER, 998' right of centerline, up to 100' AGL/1219' MSL.
Tree 4103' from DER, 1592' right of centerline, 100' AGL/1239' MSL.
Building 5022' from DER, 1164' left of centerline, 31' AGL/1123' MSL.
Tree 1 NM from DER, 1236' left of centerline, 100' AGL/1239' MSL.
Tree 1 NM from DER, 1310' left of centerline, 100' AGL/1249' MSL.
Tree 1 NM from DER,1494' left of centerline, 100' AGL/1259' MSL.
Tree 1 NM from DER, 1656' left of centerline, 100' AGL/1269' MSL.
Tree 1.1 NM from DER, 1767' left of centerline, 100' AGL/1279' MSL.
Tree 1.1 NM from DER, 1840' left of centerline, 100' AGL/1289' MSL.
Tree 1.1 NM from DER, 1958' left of centerline, 100' AGL/1299' MSL.

CON'T

WADSWORTH, OH (CON'T)

WADSWORTH MUNI (3G3) (CON'T)

Rwy 10 (CON'T), trees beginning 1.1 NM from DER, 2252' left of centerline, up to 100' AGL/1309' MSL.
Trees 1.4 NM from DER, 2522' left of centerline, 100' AGL/1319' MSL.
Tree 1.9 NM from DER, 3653' left of centerline, 100' AGL/1359' MSL.
Tree 2.1 NM from DER, 3881' left of centerline, 100' AGL/1369' MSL.
Tower 2.3 NM from DER, 2131' left of centerline, 416' AGL/1581' MSL.
Tower 2.3 NM from DER, 2131' left of centerline, 416' AGL/1581' MSL.
Rwy 20, tree 27' from DER, 216' left of centerline, 991' MSL.
Vehicles on road 28' from DER, 320' right of centerline, 976' MSL.
Trees, vehicles on road, beginning 38' from DER, 303' left of centerline, up to 1034' MSL.
Trees, vehicles on road, beginning 349' from DER, 81' left of centerline, up to 1067' MSL.
Vehicles on road beginning 417' from DER, 22' right of centerline, up to 982' MSL.
Trees, vehicles on road beginning 707' from DER, on and left of centerline, up to 1072' MSL.
Tree 4551' from DER, 156' left of centerline, 1086' MSL.
Tree 4602' from DER, 58' right of centerline, 1092' MSL.
Trees beginning 4627' from DER, 556' left of centerline, 1095' MSL.
Tree 4692' from DER, 478' from centerline, 1101' MSL.
Tree 4709' from DER, 1737' left of centerline, 100' AGL/1179' MSL.
Trees beginning 4767' from DER, 6' left of centerline, up to 100' AGL/1189' MSL.
Tree 1.2 NM from DER, 2431' left of centerline, 100' AGL/1179' MSL.
Rwy 28, building 172' from DER, 429' right of centerline, up to 26' AGL/991' MSL.
Tree 1035' from DER, 434' left of centerline, 100' AGL/1069' MSL.
Trees beginning 1265' from DER, 197' left of centerline, up to 100' AGL/1079' MSL.
Tree 3301' from DER, 66' right of centerline, 100' AGL/1089' MSL.
Tree 3401' from DER, 101' right of centerline, 100' AGL/1099' MSL.
Tree 3531' from DER, 108' right of centerline, 100' AGL/1109' MSL.
Tree 3643' from DER, 111' right of centerline, 100' AGL/1119' MSL.
Tree 3746' from DER, 127' right of centerline, 100' AGL/1129' MSL.
Tree 3838' from DER, 162' right of centerline, 100' AGL/1139' MSL.
Tree 3909' from DER, 176' right of centerline, 100' AGL/1149' MSL.
Tree 3987' from DER, 176' right of centerline, 100' AGL/1159' MSL.
Tree 4058' from DER, 211' right of centerline, 100' AGL/1169' MSL.
Tree 4150' from DER, 204' right of centerline, 100' AGL/1179' MSL.
Tree 4185' from DER, 210' right of centerline, 100' AGL/1189' MSL.
Tree 4249' from DER, 224' right of centerline, 100' AGL/1199' MSL.
Trees beginning 4297' from DER, 71' left of centerline, up to 100' AGL/1209' MSL.
Tree 4468' from DER, 125' right of centerline, 100' AGL/1219' MSL.
Tree 4575' from DER, 322' right of centerline, 100' AGL/1229' MSL.
Tree 4780' from DER, 364' right of centerline, 100' AGL/1239' MSL.
Tree 4865' from DER, 335' right of centerline, 100' AGL/1249' MSL.
Trees beginning 5125' from DER, 299' right of centerline, up to 100' AGL/1259' MSL.
Trees beginning 5329' from DER, 797' right of centerline, up to 100' AGL/1269' MSL.
Tree 5693' from DER, 1171' right of centerline, 100' AGL/1279' MSL.
Trees beginning 5693' from DER, 1171' right of centerline, up to 100' AGL/1279' MSL.
Trees beginning 1.5 NM from DER, 974' right of centerline, up to 100' AGL/1299' MSL.
Tree 1.6 NM from DER, 2779' left of centerline, 100' AGL/1269' MSL.
Tree 2.1 NM from DER, 3933' right of centerline, 100' AGL/1299' MSL.

WAPAKONETA, OH

NEIL ARMSTRONG (AXV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 31JUL08 (08213) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 8, vehicle on road, 1' from DER, 403' right of centerline, 15' AGL/926' MSL.
Fence 70' from DER, 222' right of centerline, 6' AGL/919' MSL.
Fence 149' from DER, 270' left of centerline, 8' AGL/921' MSL.
Obstruction light on pole, 348' from DER, 239' left of centerline, 15' AGL/928' MSL.
Building, 614' from DER, 463' left of centerline, 15' AGL/929' MSL.
Trees beginning 2385' from DER, 51' left of centerline, up to 101' AGL/1014' MSL.
Trees beginning 2263' from DER, 268' right of centerline, up to 75' AGL/988' MSL.
Rwy 26, obstruction light on DME, 401' from DER, 268' right of centerline, 9' AGL/922' MSL.
Trees beginning 496' from DER, 51' right of centerline, up to 83' AGL/996' MSL.
Trees beginning 563' from DER, 120' left of centerline, up to 72' AGL/985' MSL.
Pole 620' from DER, 332' left of centerline, 25' AGL/938' MSL.
Stack, 3021' from DER, 577' left of centerline, 125' AGL/1035' MSL.
Tower, 3265' from DER, 729' right of centerline, 149' AGL/1050' MSL.

WARSAW, IN

WARSAW MUNI (ASW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 30JAN20 (20030) (FAA)

TAKEOFF MINIMUMS:

Rwy 9, 300-1⅞ or std. w/min. climb of 266' per NM to 1100, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2000' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 9, fence beginning 148' from DER, 476' left of centerline, up to 5' AGL/856' MSL.
Vehicle on road beginning 181' from DER, 22' right of centerline, up to 865' MSL.
Vehicle on road 183' from DER, 264' left of centerline, 865' MSL.
Vehicle on road beginning 184' from DER, 404' left of centerline, up to 866' MSL.
Trees beginning 835' from DER, 447' right of centerline, up to 65' AGL/914' MSL.
Trees beginning 1258' from DER, 755' left of centerline, up to 50' AGL/888' MSL.
Tree 1283' from DER, 763' left of centerline, 52' AGL/890' MSL.
Trees beginning 1287' from DER, 524' left of centerline, up to 58' AGL/897' MSL.
Trees beginning 1367' from DER, 476' left of centerline, up to 61' AGL/898' MSL.
Trees beginning 1472' from DER, 72' right of centerline, up to 77' AGL/928' MSL.
Trees beginning 1529' from DER, 176' left of centerline, up to 66' AGL/908' MSL.
Trees beginning 1701' from DER, 824' right of centerline, up to 91' AGL/944' MSL.
Trees beginning 2231' from DER, 841' right of centerline, up to 99' AGL/949' MSL.
Tree 2497' from DER, 969' left of centerline, 69' AGL/913' MSL.
Transmission line 4888' from DER, 1104' left of centerline, 167' AGL/1012' MSL.
Transmission line 5638' from DER, 106' left of centerline, 173' AGL/1018' MSL.
Tower 5639' from DER, 106' left of centerline, 172' AGL/1020' MSL.
Catenary 5730' from DER, 3' right of centerline, 169' AGL/1014' MSL.

Rwy 18, terrain 6' from DER, 193' left of centerline, 837' MSL.
Poles beginning 712' from DER, 360' left of centerline, up to 47' AGL/880' MSL.
Poles, tree beginning 744' from DER, 150' right of centerline, up to 33' AGL/866' MSL.
Trees beginning 832' from DER, 572' left of centerline, up to 63' AGL/896' MSL.
Trees beginning 932' from DER, 17' left of centerline, up to 75' AGL/905' MSL.
Trees beginning 1041' from DER, 172' right of centerline, up to 40' AGL/870' MSL.
Trees beginning 1267' from DER, 115' right of centerline, up to 86' AGL/905' MSL.
Trees beginning 1846' from DER, 305' right of centerline, up to 103' AGL/917' MSL.

Rwy 27, tree 1341' from DER, 650' right of centerline, 41' AGL/872' MSL.
Pole 1715' from DER, 387' left of centerline, 60' AGL/883' MSL.
Pole 1717' from DER, 462' right of centerline, 57' AGL/884' MSL.

Rwy 36, building 199' from DER, 528' left of centerline, 15' AGL/849' MSL.
Pole 313' from DER, 537' left of centerline, 43' AGL/877' MSL.
Tree 366' from DER, 520' left of centerline, 59' AGL/893' MSL.
Trees, poles, vehicle on road beginning 448' from DER, 237' left of centerline, up to 77' AGL/910' MSL.
Pole, vehicle on road beginning 483' from DER, 5' right of centerline, up to 27' AGL/864' MSL.
Pole 524' from DER, 544' right of centerline, 29' AGL/866' MSL.
Tree 560' from DER, 507' right of centerline, 51' AGL/887' MSL.
Trees, buildings, pole beginning 568' from DER, 404' right of centerline, up to 56' AGL/891' MSL.
Trees beginning 1666' from DER, 643' right of centerline, up to 87' AGL/916' MSL.
Trees beginning 1766' from DER, 519' right of centerline, up to 91' AGL/919' MSL.
Trees beginning 1783' from DER, 357' left of centerline, up to 105' AGL/928' MSL.
Trees beginning 1952' from DER, 380' left of centerline, up to 108' AGL/929' MSL.
Trees beginning 2148' from DER, on centerline, up to 109' AGL/932' MSL.
Trees beginning 2740' from DER, 183' right of centerline, up to 103' AGL/925' MSL.
Trees beginning 2857' from DER, 165' right of centerline, up to 125' AGL/945' MSL.
Trees beginning 3244' from DER, 148' left of centerline, up to 106' AGL/934' MSL.
Trees beginning 3309' from DER, 11' left of centerline, up to 107' AGL/936' MSL.

WASHINGTON, IN

DAVIESS COUNTY (DCY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 28FEB19 (19059) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, 300-1 or std. w/min. climb of 295' per NM to 700.

TAKEOFF OBSTACLE NOTES:

Rwy 18, NAVAID 38' from DER, 113' right of centerline, 2' AGL/469' MSL.
Traverse way 201' from DER, 525' right of centerline, 485' MSL.
Trees beginning 1036' from DER, 247' left of centerline, up to 526' MSL.
Tree 1526' from DER, 153' left of centerline, 542' MSL.
Tree 1957' from DER, 222' right of centerline, 538' MSL.
Trees beginning 2628' from DER, 264' right of centerline, up to 575' MSL.
Elevator, tank beginning 4160' from DER, 18' left of centerline, up to 606' MSL.
Elevator 4221' from DER, 10' left of centerline, 121' AGL/621' MSL.

WASHINGTON COURT HOUSE, OH

FAYETTE COUNTY (I23)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20DEC07 (07354) (FAA)

TAKEOFF MINIMUMS:

Rwy 5, 300-1¾ or std. w/ min. climb of 268' per NM to 1400.

TAKEOFF OBSTACLE NOTES:

Rwy 5, train on railroad tracks 384' from DER, 243' right of centerline, 23' AGL/997' MSL.
Terrain 81' from DER, 184' left of centerline, 0' AGL/978' MSL.
Silo 8848' from DER, 772' right of centerline, 238' AGL/1213' MSL.
Rwy 23, train on railroad tracks 509' from DER, 257' left of centerline, 23' AGL/1003' MSL.

WAUSEON, OH

FULTON COUNTY (USE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwys 18, 36, NA - Environmental.
Rwys 9, 27, 300-1.

TAKEOFF OBSTACLE NOTES:

Rwy 9, antenna, building beginning 1137' from DER, 637' left of centerline, up to 808' MSL.
Trees beginning 1309' from DER, 414' right of centerline, up to 840' MSL.
Trees beginning 1371' from DER, 562' right of centerline, up to 80' AGL/848' MSL.
Tree 1455' from DER, 543' right of centerline, 83' AGL/850' MSL.
Trees beginning 1569' from DER, 635' right of centerline, up to 90' AGL/854' MSL.
Trees beginning 2161' from DER, 4' left of centerline, up to 111' AGL/876' MSL.
Rwy 27, building 11' from DER, 460' left of centerline, 799' MSL.
Pole 26' from DER, 487' left of centerline, 808' MSL.
Antenna, building, road, tree, flagpole, tk, pole beginning 88' from DER, 47' left of centerline, up to 45' AGL/824' MSL.
Trees beginning 3976' from DER, 170' left of centerline, up to 889' MSL.

WAVERLY, OH

PIKE COUNTY (EOP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05FEB15 (15036) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 7, REILs 39' from DER, 78' left and 75' right of centerline, 2' AGL/663' MSL.
Fence at DER, 434' right of centerline, 6' AGL/668' MSL.
Fence beginning 88' from DER, 462' left of centerline, 9' AGL/671' MSL.
Buildings beginning 602' from DER, 437' right of centerline, up to 21' AGL/680' MSL.
Trees beginning 237' from DER, 162' left of centerline, up to 100' AGL/752' MSL.
Trees beginning 95' from DER, 286' right of centerline, up to 100' AGL/736' MSL.
Rwy 25, REILs 40' from DER, 79' left and 78' right of centerline, 2' AGL/662' MSL.
Antenna, poles, and vehicle on road beginning 55' from DER, 223' left of centerline, up to 46' AGL/705' MSL.
Trees, poles, fence, and vehicle on road beginning 79' from DER, 200' right of centerline, up to 100' AGL/739' MSL.
Vehicles on road beginning 487' from DER, crossing centerline, up to 15' AGL/674' MSL.
Trees beginning 666' from DER, 444' right of centerline, up to 100' AGL/726' MSL.
Trees beginning 596' from DER, 267' left of centerline, up to 100' AGL/728' MSL.
Trees beginning 1422' from DER, crossing centerline, up to 115' AGL/769' MSL.

WEST UNION, OH

ALEXANDER SALAMON (AMT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 13DEC90 (90347) (FAA)

TAKEOFF MINIMUMS:

Rwys 5, 23, 300-1.

DEPARTURE PROCEDURE:

Rwys 5, 23, climb straight ahead to 1700 before turning west.

WILLARD, OH

WILLARD (8G1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13SEP18 (18256) (FAA)

DEPARTURE PROCEDURE:

Rwy 10, climb on heading 103° to 1400 before turning left.

TAKEOFF OBSTACLE NOTES :

Rwy 10, building 705' from DER, 149' left of centerline, 19' AGL/959' MSL.
Transmission line 783' from DER, 289' left of centerline, 39' AGL/980' MSL.
Pole 1900' from DER, 418' left of centerline, 32' AGL/985' MSL.
Pole 1965' from DER, 985' left of centerline, 32' AGL/986' MSL.
Rwy 28, building beginning 6' from DER, 159' right of centerline, up to 30' AGL/969' MSL.
Pole 78' from DER, 306' left of centerline, up to 30' AGL/969' MSL.
Pole 125' from DER, 326' right of centerline, up to 40' AGL/979' MSL.
Trees beginning 201' from DER, 279' right of centerline, up to 100' AGL/1039' MSL.
Trees beginning 406' from DER, 487' right of centerline, up to 100' AGL/1049' MSL.
Trees beginning 1239' from DER, 144' left of centerline, up to 100' AGL/1069' MSL.
Trees beginning 1300' from DER, 4' right of centerline, up to 100' AGL/1069' MSL.

WILLOUGHBY, OH

LAKE COUNTY EXECUTIVE (LNN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3B 26MAR20 (20086) (FAA)

DEPARTURE PROCEDURE:

Rwy 10, climb on heading 099° to 1600 before turning right.
Rwy 23, climb on heading 233° to 1400 before turning right.
Rwy 28, climb on heading 279° to 1400 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 5, fence, tree beginning 3' from DER, 273' left of centerline, up to 13' AGL/633' MSL.
Terrain 40' from DER, 382' right of centerline, 625' MSL.
Tree, pole beginning 50' from DER, 343' right of centerline, up to 56' AGL/673' MSL.
Tree 403' from DER, 584' right of centerline, 62' AGL/679' MSL.
Trees beginning 416' from DER, 351' left of centerline, up to 24' AGL/640' MSL.
Tree, building beginning 428' from DER, 538' right of centerline, up to 62' AGL/680' MSL.
Tree, building, fence, electrical system beginning 455' from DER, 244' right of centerline, up to 703' MSL.
Trees beginning 522' from DER, 466' left of centerline, up to 660' MSL.
Trees beginning 662' from DER, 587' left of centerline, up to 62' AGL/674' MSL.
Tree 802' from DER, 558' left of centerline, 76' AGL/688' MSL.
Trees beginning 811' from DER, 528' left of centerline, up to 101' AGL/714' MSL.
Trees beginning 1070' from DER, 15' left of centerline, up to 109' AGL/728' MSL.
Tree, electrical system beginning 1286' from DER, 168' right of centerline, up to 98' AGL/716' MSL.
Trees beginning 1994' from DER, 356' right of centerline, up to 101' AGL/720' MSL.
Tree, electrical system beginning 2034' from DER, 434' right of centerline, up to 725' MSL.
Tree, electrical system, pole, transmission line beginning 2120' from DER, 10' right of centerline, up to 116' AGL/734' MSL.
Trees beginning 2613' from DER, 31' left of centerline, up to 109' AGL/732' MSL.
Tree 3426' from DER, 525' right of centerline, 107' AGL/736' MSL.
Trees beginning 3427' from DER, 328' right of centerline, up to 119' AGL/737' MSL.
Trees beginning 3667' from DER, 29' right of centerline, up to 124' AGL/740' MSL.
Trees beginning 4179' from DER, 303' left of centerline, up to 737' MSL.
Rwy 10, fence 77' from DER, 478' right of centerline, 10' AGL/633' MSL.
Trees beginning 168' from DER, 353' right of centerline, up to 63' AGL/684' MSL.
Tree, building, pole beginning 348' from DER, 139' right of centerline, up to 76' AGL/698' MSL.
Pole, tree beginning 405' from DER, 142' left of centerline, up to 34' AGL/656' MSL.
Tree, building, electrical system, transmission line, pole, vertical point beginning 437' from DER, 3' right of centerline, up to 95' AGL/717' MSL.
Electrical system, vertical point, transmission line, pole, lighting beginning 607' from DER, 26' left of centerline, up to 55' AGL/677' MSL.
Electrical system, tree, pole beginning 694' from DER, 54' left of centerline, up to 60' AGL/682' MSL.
Tree, electrical system, building beginning 733' from DER, 66' left of centerline, up to 67' AGL/695' MSL.
Tree, electrical system beginning 773' from DER, 10' left of centerline, up to 78' AGL/701' MSL.
Tree, building beginning 850' from DER, 520' left of centerline, up to 86' AGL/709' MSL.
Tree, electrical system beginning 955' from DER, 78' left of centerline, up to 89' AGL/711' MSL.
Tree, electrical system beginning 1081' from DER, 142' right of centerline, up to 98' AGL/721' MSL.
Tree, electrical system beginning 1112' from DER, 83' left of centerline, up to 105' AGL/727' MSL.
Trees beginning 1226' from DER, 4' right of centerline, up to 730' MSL.
Trees beginning 1260' from DER, 1' right of centerline, up to 108' AGL/732' MSL.
Trees beginning 2218' from DER, 4' left of centerline, up to 112' AGL/733' MSL.
Trees beginning 2349' from DER, 85' right of centerline, up to 112' AGL/736' MSL.
Trees beginning 2428' from DER, 15' right of centerline, up to 116' AGL/742' MSL.
Trees beginning 3541' from DER, 187' left of centerline, up to 110' AGL/736' MSL.
Rwy 23, fence 4' from DER, 489' left of centerline, 8' AGL/633' MSL.
Tree, fence, electrical system, building beginning 94' from DER, 62' left of centerline, up to 687' MSL.
Building 195' from DER, 495' right of centerline, 29' AGL/652' MSL.
Building, fence, electrical system, pole beginning 200' from DER, 448' right of centerline, up to 49' AGL/672' MSL.

CON'T

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WILLOUGHBY, OH (CON'T)

LAKE COUNTY EXECUTIVE (LNN) (CON'T)

Rwy 23 (CON'T), tree 526' from DER, 591' right of centerline, 77' AGL/698' MSL.
Tree, transmission line, pole, electrical system beginning 529' from DER, 363' right of centerline, up to 79' AGL/701' MSL.
Tree, pole, transmission line, electrical system beginning 628' from DER, 166' right of centerline, up to 87' AGL/709' MSL.
Trees beginning 1582' from DER, 204' left of centerline, up to 78' AGL/701' MSL.
Trees beginning 1659' from DER, 119' left of centerline, up to 714' MSL.
Trees beginning 1971' from DER, 260' right of centerline, up to 722' MSL.
Trees beginning 1987' from DER, 22' right of centerline, up to 100' AGL/724' MSL.
Tree 3023' from DER, 52' left of centerline, 94' AGL/717' MSL.
Trees beginning 3037' from DER, 269' left of centerline, up to 111' AGL/721' MSL.
Trees beginning 3445' from DER, 327' right of centerline, up to 105' AGL/728' MSL.
Trees beginning 3792' from DER, 1078' right of centerline, up to 108' AGL/730' MSL.
Rwy 28, antenna 579' from DER, 325' right of centerline, 20' AGL/640' MSL.
Building 835' from DER, 209' left of centerline, 23' AGL/645' MSL.
Building 845' from DER, 561' left of centerline, 29' AGL/652' MSL.
Building, electrical system, pole beginning 876' from DER, 410' left of centerline, up to 49' AGL/672' MSL.
Electrical system 965' from DER, 470' right of centerline, 34' AGL/653' MSL.
Electrical system, transmission line, pole, building beginning 985' from DER, 338' right of centerline, up to 44' AGL/661' MSL.
Tree 1134' from DER, 436' left of centerline, 77' AGL/698' MSL.
Tree 1140' from DER, 188' right of centerline, 45' AGL/664' MSL.
Trees beginning 1141' from DER, 397' left of centerline, up to 706' MSL.
Trees beginning 1143' from DER, 541' right of centerline, up to 692' MSL.
Trees beginning 1186' from DER, 386' right of centerline, up to 74' AGL/694' MSL.
Trees beginning 1213' from DER, 8' left of centerline, up to 87' AGL/709' MSL.
Tree 1240' from DER, 378' right of centerline, 76' AGL/695' MSL.
Trees beginning 1278' from DER, 21' right of centerline, up to 700' MSL.
Trees beginning 1711' from DER, 21' right of centerline, up to 95' AGL/711' MSL.
Tree 2447' from DER, 207' left of centerline, 99' AGL/715' MSL.
Trees beginning 2467' from DER, 200' left of centerline, up to 102' AGL/723' MSL.
Trees beginning 2671' from DER, 172' left of centerline, up to 108' AGL/728' MSL.
Tree 3022' from DER, 1211' left of centerline, 116' AGL/735' MSL.
Tree, antenna beginning 3105' from DER, 248' left of centerline, up to 123' AGL/743' MSL.

WILMINGTON, OH

WILMINGTON AIR PARK (ILN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27AUG09 (09239) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 4L, tree 1032' from DER, 644' right of centerline, 35' AGL/1114' MSL.
Rwy 22L, tree 2437' from DER, 468' left of centerline, 100' AGL/1134' MSL.

CLINTON FIELD (I66)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 05JUL07 (07186) (FAA)

TAKEOFF MINIMUMS:
Rwy 3, 300-1¼ or std. w/ a min. climb of 224' per NM to 1300', or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to DER.

TAKEOFF OBSTACLE NOTES:
Rwy 3, multiple trees beginning 76' from DER, 76' right of centerline, up to 88' AGL/1137' MSL.
Multiple trees beginning 279' from DER, 140' left of centerline, up to 96' AGL/1105' MSL.
Water tank 1 NM from DER, 554' left of centerline, 176' AGL/1205' MSL.
Rwy 21, multiple trees beginning 187' from DER, 509' right of centerline, up to 87' AGL/1111' MSL.
Multiple trees beginning 243' from DER, 214' left of centerline, up to 77' AGL/1086' MSL.

WINAMAC, IN

ARENS FIELD (RWN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 11OCT18 (18284) (FAA)

TAKEOFF MINIMUMS:
Rwy 9, 300-1½ or std. w/ min. climb of 225' per NM to 1000

TAKEOFF OBSTACLE NOTES:
Rwy 9, fence 195' from DER, 190' right of centerline, 5' AGL/712' MSL.
Pole, NAVAID and vehicle beginning 268' from DER, 21' left of centerline, up to 26' AGL/735' MSL.
Tree 356' from DER, 172' right of centerline, 723' MSL.
Pole 595' from DER, 409' right of centerline, 34' AGL/741' MSL.
Pole 729' from DER, 393' left of centerline, 31' AGL/740' MSL.
Poles beginning 736' from DER, 172' right of centerline, up to 37' AGL/745' MSL.
Tree 2466' from DER, 463' left of centerline, 782' MSL.
Tower 1 NM from DER, 24' left of centerline, 181' AGL/894' MSL.
Rwy 27, fence 6' from DER, 203' left of centerline, 2' AGL/707' MSL.
Tree 99' from DER, 190' left of centerline, 715' MSL.
Fence 108' from DER, 208' right of centerline, 3' AGL/709' MSL.
Tree 1660' from DER, 852' right of centerline, 757' MSL.

WINCHESTER, IN
RANDOLPH COUNTY (I22)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10MAR11 (11069) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 8, power poles beginning 503' from DER, 433' right of centerline, up to 26' AGL/1155' MSL.
Trees 1013' from DER, 586' right of centerline, 38' AGL/1167' MSL.
Trees beginning 3523' from DER, 112' right of centerline, up to 101' AGL/1220' MSL.
Tree 1745' from DER, 718' left of centerline, 61' AGL/1180' MSL.
Rwy 26, trees and power pole beginning 389' from DER, 461' right of centerline, up to 59' AGL/1178' MSL.
Barn and silo beginning 590' from DER, 360' right of centerline, up to 32' AGL/1151' MSL.
Tree 479' from DER, 571' left of centerline, 23' AGL/ 1142' MSL.
Power poles, antenna, and barn beginning 913' from DER, 444' left of centerline, up to 34' AGL/ 1153' MSL.
Tree and antenna beginning 1023' from DER, 424' left of centerline, up to 43' AGL/1162' MSL.

WOODSFIELD, OH
MONROE COUNTY (4G5)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 30MAY91 (91150) (FAA)
TAKEOFF MINIMUMS:
Rwy 25, 300-1.

WOOSTER, OH
WAYNE COUNTY (BJJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 26APR18 (18116) (FAA)
TAKEOFF MINIMUMS:
Rwy 28, 300-1.
TAKEOFF OBSTACLE NOTES :
Rwy 10, traverse way 11' from DER, 479' right of centerline, 1141' MSL.
Traverse way beginning 61' from DER, 359' left of centerline, up to 1143' MSL.
Pole, traverse way beginning 126' from DER, 40' right of centerline, up to 34' AGL/1159' MSL.
Pole, traverse way beginning 165' from DER, 69' left of centerline, up to 33' AGL/1157' MSL.
Rwy 28, vegetation 44' from DER, 467' right of centerline, 5' AGL/1116' MSL.
Trees, beginning 1243' from DER, 400' left of centerline, up to 1240' MSL.
Trees, beginning 2584' from DER, 229' right of centerline, up to 1203' MSL.

WRIGHT-PATTERSON AFB (KFFO)
DAYTON, OH
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
22OCT09 (09295)
TAKEOFF MINIMUMS:
Rwy 5R, 200-1½*
Rwy 23R, 400-2¾**
Rwy 23L, 400-2¾***
* Or std. w/min. climb of 240ft/NM to 1100'.
** Or std. w/min. climb of 260ft/NM to 1300'.
*** Or std. w/min. climb of 210ft/NM to 1300'.
Rwy 5R, climb on track 050° until reaching 1100.
TAKEOFF OBSTACLE NOTES:
Rwy 23L: 43' AGL VORTAC, 850' from DER, 662' right of centerline.
Rwy 5L: Up to 105' AGL tree line beginning 3000' from DER, 700' right of centerline to 5100' from DER, 1300' left of centerline.

YOUNGSTOWN, OH
YOUNGSTOWN ELSER METRO (4G4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 05FEB15 (15036) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 300-1¾ or std. w/min. climb of 237' per NM to 1500.
Rwy 28, 300-2½ or std. w/min. climb of 463' per NM to 1300.
DEPARTURE PROCEDURE:
Rwy 10, climb heading 098° to 2000 before proceeding on course.
Rwy 28, climb heading 278° to 1700 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 10, vehicle on road 200' from DER, on centerline, 15' AGL/1104' MSL.
Hangar and trees beginning 34' from DER, 203' right of centerline, up to 100' AGL/1189' MSL.
Trees and tower beginning 283' from DER, 322' left of centerline, up to 138' AGL/1332' MSL.
Rwy 28, trees on centerline, beginning 3380' from DER, up to 100' AGL/1209' MSL.
Trees beginning at DER, 222' right of centerline, up to 100' AGL/1119' MSL.
Trees beginning at DER, 191' left of centerline, up to 100' AGL/1119' MSL.

YOUNGSTOWN-WARREN, OH

YOUNGSTOWN-WARREN RGNL (YNG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 26JUL90 (90207) (FAA)

TAKEOFF MINIMUMS:

Rwy 23, 300-1.

ZANESVILLE, OH

ZANESVILLE MUNI (ZZV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25DEC03 (03359) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 22, tree 303' from DER, 427' left of centerline, 948' MSL.
Tree 182' from DER, 350' right of centerline, 942' MSL.
Rwy 34, tree 2370' from DER, 189' left of centerline, 968' MSL.
Tree 2309' from DER, 388' left of centerline, 962' MSL.

EC-2, 25 FEB 2021 to 22 APR 2021

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME — ALTERNATE MINIMUMS

AKRON, OH
AKRON FULTON
INTL (AKR)…….....**LOC Rwy 25**
NDB Rwy 25
RNAV (GPS) Rwy 25
Category D, 800-2½.

ANDERSON, IN
ANDERSON MUNI-DARLINGTON
FIELD (AID)……..……**ILS or LOC Rwy 30[12]**
NDB Rwy 30[1]
RNAV (GPS) Rwy 30[3]
[1]NA when control tower closed.
[2]ILS, Categories C, D, 700-2.
[3]NA when local weather not available.

ATHENS/ALBANY, OH
OHIO
UNIVERSITY (UNI)……**RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25
Category D, 800-2¼.

AUBURN, IN
DE KALB
COUNTY (GWB)……..**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR-A
Category C, 900-2½; Category D, 900-2¾.

BATAVIA, OH
CLERMONT
COUNTY (I69)……..**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
VOR-B
NA when local weather not available.

BEDFORD, IN
VIRGIL I. GRISSOM
MUNI (BFR)……**RNAV (GPS) Rwy 13**
NA when local weather not available.

BELLEFONTAINE, OH
BELLEFONTAINE
RGNL (EDJ)…….....**VOR Rwy 7**
NA when local weather not available.

NAME — ALTERNATE MINIMUMS

BLOOMINGTON, IN
MONROE
COUNTY (BMG)……**ILS or LOC/DME Rwy 35**
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 24
RNAV (GPS) Rwy 35
VOR Rwy 17
VOR/DME Rwy 6
NA when local weather not available.

CAMBRIDGE, OH
CAMBRIDGE MUNI (CDI)…..**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
NA when local weather not available.
Category C, 1100-3.

CHILLICOTHE, OH
ROSS COUNTY (RZT)……**RNAV (GPS) Rwy 23**
NA when local weather not available.
Category D, 800-2¼.

CINCINNATI, OH
CINCINNATI MUNI AIRPORT-LUNKEN
FIELD (LUK)……...**ILS or LOC Rwy 21L[12]**
LOC BC Rwy 3R[16]
RNAV (GPS) Rwy 3R[3]
RNAV (GPS) Rwy 21L[4]
RNAV (GPS) Rwy 25[5]
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category B, 900-2; Category C, 900-2½; Category D,1000-3.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[4]Categories A, B, 900-2¼; Category C, 900-2½; Category D, 900-2¾.
[5]Categories A, B, C, 900-2½; Category D, 900-2¾.
[6]Categories A, B, 900-2; Category C, 900-2½; Category D,1000-3.

NAME ALTERNATE MINIMUMS

CIRCLEVILLE, OH

PICKAWAY COUNTY
MEMORIAL (CYO)……..**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19
VOR Rwy 19
NA when local weather not available.

CLEVELAND, OH

BURKE
LAKEFRONT (BKL)…..…... **ILS or LOC Rwy 24R[1]**
RNAV (GPS) Rwy 24R[2]
[1]NA when control tower closed.
[2]Categories A, B, 1100-2; Categories C, D, 1100-3.

CUYAHOGA
COUNTY (CGF)……**ILS or LOC Rwy 24[1]**
RNAV (GPS) Rwy 6[2]
RNAV (GPS) Rwy 24[3]
[1]LOC, Category D, 800-2½.
[2]Category D, 800-2¼.
[3]Category D, 800-2½.

COLUMBUS, IN

COLUMBUS
MUNI (BAK)…….....…**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 14[1]
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 32
NA when local weather not available.
[1]Category D, 800-2½.

COLUMBUS, OH

BOLTON FIELD (TZR)…….....**ILS or LOC Rwy 4[12]**
NDB Rwy 4[1]
RNAV (GPS) Rwy 22[2]
[1]NA when control tower closed.
[2]NA when local weather not available.

JOHN GLENN COLUMBUS
INTL (CMH)…….....**ILS or LOC Rwy 10L[1]**
ILS or LOC Rwy 10R[2]
ILS or LOC Rwy 28L[4]
ILS or LOC Rwy 28R[2]
RNAV (GPS) Y Rwy 10L[5]
RNAV (GPS) Y Rwy 10R[5]
RNAV (GPS) Y Rwy 28L[3]
RNAV (GPS) Y Rwy 28R[5]
[1]ILS, LOC, Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.
[2]ILS, Categories A, B, 700-2; Category C, 800-2; Category D, 800-2¼; LOC, Category D, 800-2¼.
[3]Category D, 800-2¾.
[4]ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 800-2½; LOC Category C, 800-2¼; Category D, 800-2½.
[5]Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

COLUMBUS, OH (CON'T)

OHIO STATE
UNIVERSITY (OSU)……**ILS or LOC Rwy 9R[1]**
NDB Rwy 9R[1]
RNAV (GPS) Rwy 9R
RNAV (GPS) Rwy 27L
NA when local weather not available.
[1]NA when control tower closed.

RICKENBACKER
INTL (LCK)……..……..**ILS or LOC Rwy 5L**
ILS or LOC Rwy 23L
RNAV (GPS) Rwy 5L
RNAV (GPS) Rwy 5R
RNAV (GPS) Rwy 23L
RNAV (GPS) Rwy 23R
NA when local weather not available.

CRAWFORDSVILLE, IN

CRAWFORDSVILLE
RGNL (CFJ)……..…..…**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
NA when local weather not available.
Category D, 800-2¼.

DAYTON, OH

DAYTON-WRIGHT
BROTHERS (MGY)……..…...**RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
NA when local weather not available.
Category D, 800-2¼.

JAMES M COX DAYTON
INTL (DAY)……**ILS or LOC Rwy 6L**
ILS, Category D, 700-2.

DEFIANCE, OH

DEFIANCE
MEMORIAL (DFI)……....…..**RNAV (GPS) Rwy 12**
Category D, 800-2¼.

ELKHART, IN

ELKHART
MUNI (EKM)…….....**ILS or LOC Rwy 27[1]**
RNAV (GPS) Rwy 9[2]
RNAV (GPS) Rwy 18[2]
RNAV (GPS) Rwy 27[2]
RNAV (GPS) Rwy 36[2]
VOR Rwy 9[2]
[1]ILS, NA when control tower closed. LOC, NA.
[2]NA when local weather not available.

EVANSVILLE, IN

EVANSVILLE
RGNL (EVV)……..…..…...**ILS or LOC Rwy 4[1]**
ILS or LOC Rwy 22[2]
NA when control tower closed.
[1]ILS, Categories A, B, 800-2; Categories C, D, 800 -2½; LOC, Categories C, D, 800-2½.
[2]ILS, Categories A, B, C, D, 700-2.

NAME ALTERNATE MINIMUMS

FINDLAY, OH
FINDLAY (FDY)……**VOR Rwy 7**
NA when local weather not available.

FORT WAYNE, IN
FORT WAYNE
INTL (FWA)……**ILS or LOC Rwy 5**[1]
ILS or LOC Rwy 32[2]
RADAR-1[3]
RNAV (GPS) Rwy 5[3]
RNAV (GPS) Rwy 14[4]
RNAV (GPS) Rwy 23[3]
RNAV (GPS) Rwy 32[4]
VOR or TACAN Rwy 5[3]
VOR or TACAN Rwy 14[3]
VOR or TACAN Rwy 23[3]
[1]ILS, Category C, 700-2; Category D, 800-2¼; Category E, 800-2½; LOC, Category D, 800-2¼; Category E, 800-2½.
[2]LOC, Category D, 800-2¼, Category E, 800-2½.
[3]Category D, 800-2¼, Category E, 800-2½.
[4]Category D, 800-2¼.

SMITH FIELD (SMD)……**RNAV (GPS) Rwy 5**
Categories A, B, 1100-2; Category C, 1200-3.

FOSTORIA, OH
FOSTORIA
METROPOLITAN (FZI)……**RNAV (GPS) Rwy 9**
NA when local weather not available.

FRENCH LICK, IN
FRENCH LICK
MUNI (FRH)……**RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26
Category D, 800-2¼.

GARY, IN
GARY/CHICAGO
INTL (GYY)……**COPTER ILS or LOC Rwy 30**[1]
ILS or LOC Rwy 30[14]
RNAV (GPS) Rwy 2[23]
RNAV (GPS) Y Rwy 12[3]
RNAV (GPS) Y Rwy 30[23]
RNAV (RNP) Z Rwy 30[2]
[1]NA when control tower closed.
[2]NA when local weather not available.
[3]Category C, 900-2¼; Category D, 900-2¾.
[4]ILS Categories A, B, 700-2; Category C, 900-2¼; Category D, 900-2¾; LOC Category C, 900-2¼; Category D, 900-2¾.

GOSHEN, IN
GOSHEN MUNI (GSH)……**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
NA when local weather not available.

NAME ALTERNATE MINIMUMS

HAMILTON, OH
BUTLER COUNTY RGNL-HOGAN
FIELD (HAO)……**ILS or LOC Rwy 29**[12]
RNAV (GPS) Rwy 11[3]
RNAV (GPS) Rwy 29[3]
[1]NA when local weather not available.
[2]LOC, Categories A, B, 900-2;
Category C, 900-2½; Category D, 1200-3.
[3]Category D, 1200-3.

HUNTINGBURG, IN
HUNTINGBURG (HNB)……**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
NA when local weather not available.

HUNTINGTON, IN
HUNTINGTON
MUNI (HHG)……**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR-A
Category D, 800-2¼.

INDIANAPOLIS, IN
EAGLE CREEK
AIRPARK (EYE)……**RNAV (GPS) Rwy 21**
VOR-A
NA when local weather not available.

INDIANAPOLIS
EXECUTIVE (TYQ)……**RNAV (GPS) Rwy 18**
VOR Rwy 18
NA when local weather not available.

INDIANAPOLIS
INTL (IND)……**ILS or LOC Rwy 5L**[1]
ILS or LOC Rwy 5R[1]
ILS or LOC Rwy 14[1]
ILS or LOC Rwy 23L[1]
ILS or LOC Rwy 23R[1]
ILS or LOC Rwy 32[1]
RNAV (GPS) Y Rwy 5L[2]
RNAV (GPS) Y Rwy 5R[2]
RNAV (GPS) Y Rwy 14[2]
RNAV (GPS) Y Rwy 23L[2]
RNAV (GPS) Y Rwy 23R[2]
RNAV (GPS) Y Rwy 32[2]
[1]ILS Categories A, B, C, 700-2; Category D, 800-2½; LOC Category D, 800-2½.
[2]Category D, 800-2½.

INDIANAPOLIS
RGNL (MQJ)……**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 25[1]
Category D, 800-2½.
[1]NA when local weather not available.

INDY SOUTH
GREENWOOD (HFY)……**RNAV (GPS) Rwy 1**
Category D, 1100-3.

NAME ALTERNATE MINIMUMS

JEFFERSONVILLE, IN
CLARK RGNL (JVY)……**RNAV (GPS) Rwy 18**
NA when local weather not available.

KENDALLVILLE, IN
KENDALLVILLE
MUNI (C62)……..**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
NA when local weather not available.

KNOX, IN
STARKE COUNTY (OXI)…….**RNAV (GPS) Rwy 18**
NA when local weather not available.

KOKOMO, IN
KOKOMO MUNI (OKK)……...**ILS or LOC Rwy 23[13]**
RNAV (GPS) Rwy 5[12]
RNAV (GPS) Rwy 14[12]
RNAV (GPS) Rwy 23[12]
RNAV (GPS) Rwy 32[12]
VOR Rwy 32[2]
[1]NA when local weather not available.
[2]Category D, 900-2½.
[3]ILS, LOC, Category D, 900-2½.

LAFAYETTE, IN
PURDUE
UNIVERSITY (LAF)……...**ILS or LOC Rwy 10[1]**
RNAV (GPS) Rwy 10[34]
RNAV (GPS) Rwy 28[34]
VOR-A[25]
[1]ILS, Category D, 800-2¼. NA when control tower closed. LOC, NA.
[2]NA when control tower closed.
[3]Category D, 800-2¼.
[4]NA when local weather not available.
[5]Category D, 800-2¼.

LANCASTER, OH
FAIRFIELD
COUNTY (LHQ)……**RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 28
NA when local weather not available.

LA PORTE, IN
LA PORTE
MUNI (PPO)……**RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
NA when local weather not available.
Category C, 800-2¼, Category D, 800-2½.

LIMA, OH
LIMA ALLEN
COUNTY (AOH)……...**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
NA when local weather not available.

NAME ALTERNATE MINIMUMS

LOGANSPORT, IN
LOGANSPORT/
CASS COUNTY (GGP)……**VOR-A**
NA when local weather not available.

LORAIN/ELYRIA, OH
LORAIN COUNTY
RGNL (LPR)…….....**ILS or LOC Rwy 7[1]**
VOR-A
NA when local weather not available.
[1]ILS, Categories C, D, 700-2.

MADISON, IN
MADISON MUNI (IMS)……**RNAV (GPS) Y Rwy 3**
Category C, 1000-3.

MANSFIELD, OH
MANSFIELD LAHM
RGNL (MFD)……...……...**ILS or LOC Rwy 32[13]**
NDB Rwy 32[4]
RNAV (GPS) Rwy 5[4]
RNAV (GPS) Rwy 14[2]
RNAV (GPS) Rwy 23[4]
RNAV (GPS) Rwy 32[2]
VOR Rwy 14[4]
VOR Rwy 32[4]
[1]NA when control tower closed.
[2]NA when local weather not available.
[3]LOC, Category D, 800-2¼.
[4]Category D, 800-2¼;

MARION, OH
MARION MUNI (MNN)……**RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 25
VOR-A
NA when local weather not available.

MARYSVILLE, OH
UNION COUNTY (MRT)…….**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
NA when local weather not available.

MICHIGAN CITY, IN
MICHIGAN CITY MUNI-PHILLIPS
FIELD (MGC)…….....**RNAV (GPS) Rwy 20**
Category C, 900-2½.

MIDDLETOWN, OH
MIDDLETOWN RGNL/HOOK
FIELD (MWO)……**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
NA when local weather not available.
Category D, 1200-3.

NAME ALTERNATE MINIMUMS

MOUNT VERNON, OH
KNOX
COUNTY (4I3)…….....**RNAV (GPS) Rwy 10**
NA when local weather not available.

MONTICELLO, IN
WHITE
COUNTY (MCX)….....….**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.
Category C, 900-2½; Category D, 900-2¾.

MUNCIE, IN
DELAWARE
COUNTY RGNL (MIE)….....…**ILS or LOC Rwy 32[1]**
RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 21
RNAV (GPS) Rwy 32
VOR Rwy 14
VOR Rwy 21
NA when local weather not available.
[1]NA when control tower closed.

NEW PHILADELPHIA, OH
HARRY CLEVER
FIELD (PHD)…….....**VOR-A**
Categories A, B, 900-2; Category C, 900-2½.

NEWARK, OH
NEWARK-HEATH (VTA)…….**RNAV (GPS) Rwy 9[1]**
RNAV (GPS) Rwy 27[2]
VOR-A[34]
[1]Category C, 900-2½; Category D, 900-2¾.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[3]Categories A, B, 1100-2; Categories C, D, 1100-3.
[4]NA when local weather not available.

PORT CLINTON, OH
ERIE-OTTAWA
INTL (PCW)……..……...**RNAV (GPS) Rwy 9[1]**
RNAV (GPS) Rwy 27
NA when local weather not available.
[1]Category D, 1000-3.

RAVENNA, OH
PORTAGE
COUNTY (POV)……..……**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR-A
NA when local weather not available.

RENSSELAER, IN
JASPER
COUNTY (RZL)……...**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

NAME ALTERNATE MINIMUMS

SHELBYVILLE, IN
SHELBYVILLE
MUNI (GEZ)…...……**RNAV (GPS) Rwy 1[1]**
RNAV (GPS) Rwy 19[1]
VOR Rwy 19
Category D, 800-2¼.
[1]NA when local weather not available.

SOUTH BEND, IN
SOUTH BEND
INTL (SBN)…….....…**ILS or LOC Rwy 9R[1]**
ILS or LOC Rwy 27L[12]
RNAV (GPS) Rwy 9L[3]
RNAV (GPS) Rwy 9R[3]
RNAV (GPS) Rwy 18[3]
RNAV (GPS) Rwy 27L[3]
RNAV (GPS) Rwy 27R[3]
RNAV (GPS) Rwy 36[4]
VOR Rwy 18[3]
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.
[4]NA when local weather not available.

SPRINGFIELD, OH
SPRINGFIELD-BECKLEY
MUNI (SGH)……**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
NA when local weather not available.

TERRE HAUTE, IN
TERRE HAUTE
RGNL (HUF)…….....**ILS or LOC Rwy 5[1]**
RADAR-1[23]
RNAV (GPS) Rwy 5[4]
RNAV (GPS) Rwy 14[4]
RNAV (GPS) Rwy 23[4]
RNAV (GPS) Rwy 32[4]
VOR Rwy 5[4]
VOR Rwy 23[4]
[1]LOC, NA when local weather not available.
[2]Category E, 800-2½.
[3]NA when control tower closed.
[4]NA when local weather not available.

TOLEDO, OH
TOLEDO
EXECUTIVE (TDZ)……..……**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 32
NA when local weather not available.
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

TOLEDO, OH (CON'T)
EUGENE F KRANZ TOLEDO
EXPRESS (TOL)……..…...**ILS Z or LOC Z Rwy 7[12]**
ILS Z or LOC Z Rwy 25[34]
RADAR-1[5]
RNAV (GPS) Rwy 7[5]
RNAV (GPS) Rwy 16[6]
RNAV (GPS) Rwy 25[5]
RNAV (GPS) Rwy 34[6]
[1]ILS, NA when local weather not available.
[2]ILS, NA when control tower closed.
[3]NA when local weather not available.
[4]LOC, Category D, 800-2¼; Category E, 800-2½.
[5]Category D, 800-2¼, Category E, 800-2½.
[6]Category D, 800-2¼.

URBANA, OH
GRIMES FIELD (I74)…..……**RNAV (GPS) Rwy 2**
RNAV (GPS) Rwy 20
VOR-A
NA when local weather not available.

VALPARAISO, IN
PORTER COUNTY
RGNL (VPZ)…… **ILS Rwy 27[1]**
RNAV (GPS) Rwy 18[2]
RNAV (GPS) Rwy 27[2]
[1]LOC, NA.
[2]NA when local weather not available.

VAN WERT, OH
VAN WERT
COUNTY (VNW)……**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
NA when local weather not available.

WARSAW, IN
WARSAW MUNI (ASW)……...**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR Rwy 9
NA when local weather not available.

WASHINGTON, IN
DAVIESS
COUNTY (DCY)……...**RNAV (GPS) Rwy 18**
NA when local weather not available.

WASHINGTON COURT HOUSE, OH
FAYETTE COUNTY (I23)….....……**NDB Rwy 23**
NA when local weather not available.
Category D, 800-2¼.

WILLOUGHBY, OH
LAKE COUNTY
EXECUTIVE (LNN)……....**RNAV (GPS) Rwy 5[1]**
RNAV (GPS) Rwy 10[2]
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 28
NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2½.
[2]Categories A, B, 1000-2; Category C, 1000-2¾.

NAME ALTERNATE MINIMUMS

WILMINGTON, OH
WILMINGTON
AIR PARK (ILN)……**ILS or LOC Rwy 4L[12]**
ILS or LOC Rwy 4R[23]
ILS or LOC Rwy 22L[23]
ILS or LOC Rwy 22R[145]
RNAV (GPS) Rwy 22R[1]
[1]NA when local weather not available.
[2]ILS, Category D, 700-2.
[3]NA when control tower closed except for operators with approved weather reporting service.
[4]NA when control tower closed.
[5]LOC, Category C, 800-2¼; Category D, 800-2½.

WOOSTER, OH
WAYNE COUNTY (BJJ)…...**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
VOR Rwy 10[1]
NA when local weather not available.
[1]Category D, 800-2¼.

YOUNGSTOWN-WARREN, OH
YOUNGSTOWN-WARREN
RGNL (YNG)……..**RADAR-1**
NA when Youngstown approach control closed.

ZANESVILLE, OH
ZANESVILLE
MUNI (ZZV)……**RNAV (GPS) Rwy 4[1]**
RNAV (GPS) Rwy 22[1]
VOR Rwy 4[1]
VOR Rwy 22[2]
NA when local weather not available.
[1]Category D, 800-2¼.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

EVANSVILLE, IN

Amdt 7A, 13SEP18 (18256) (FAA) ELEV **422**

EVANSVILLE RGNL (EVV)

RADAR-1 124.025 290.9 T

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	4		AB	**860**-1	471	(500-1)	CD	**860**-1⅜	471	(500-1⅜)
	18		AB	**880**-1	484	(500-1)	CD	**880**-1⅜	484	(500-1⅜)
	22		AB	**900**/24	478	(500-½)	CD	**900**/45	478	(500-⅞)
	36		AB	**920**-1	536	(600-1)	CD	**920**-1½	536	(600-1½)
C CIRCLING			A	**940**-1	518	(600-1)	B	**1040**-1	618	(700-1)
			C	**1040**-1¾	618	(700-1¾)	D	**1040-2**	618	(700-2)

When control tower closed, procedure NA.
Rwy 18, 36: Helicopter visibility reduction below ¾ SM not authorized.
Circling Rwy 9 NA at night.

FORT WAYNE, IN

Amdt 26A, 22JUN17 (17173) (FAA) ELEV **815**

FORT WAYNE INTL (FWA)

RADAR-1 127.2 284.6 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	32		AB	**1280**/24	480	(500-½)	CDE	**1280**/50	480	(500-1)
	23		AB	**1300**/55	501	(500-1¼)	CDE	**1300**-1⅜	501	(500-1⅜)
	14		AB	**1320**-1	518	(600-1)	CDE	**1320**-1⅜	518	(600-1⅜)
	5		AB	**1320**/24	505	(600-½)	CDE	**1320**/55	505	(600-1¼)
C CIRCLING			AB	**1320**-1	505	(600-1)	C	**1420**-1¾	605	(700-1¾)
			D	**1520**-2¼	705	(800-2¼)	E	**1520**-2½	705	(800-2½)

Rwy 23 helicopter visibility reduction below RVR 4000 NA.
For inoperative ALS, increase S-5 and S-32 CAT C/D/E visibility to 1⅜ SM

TERRE HAUTE, IN

Amdt 5C, 25FEB21 (21056) (FAA) ELEV **589**

TERRE HAUTE RGNL (HUF)

RADAR-1 125.45 339.8 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	32		AB	**980**-1	391	(400-1)	CDE	**980**-1⅛	391	(400-1⅛)
	23		AB	**1100**-1	518	(600-1)	CDE	**1100**-1⅜	518	(600-1⅜)
	5		AB	**1220**/24	642	(700-½)	CDE	**1220**-1⅜	642	(700-1⅜)
C CIRCLING			AB	**1220**-1	631	(700-1)	C	**1220**-1⅞	631	(700-1⅞)
			D	**1220**-2	631	(700-2)	E	**1400**-3	811	(900-3)

Circling NA NW of Rwy 5-23 for Cat E aircraft.
When control tower closed, procedure NA.
Rwy 5, for inoperative ALS, increase Cat E visibility to 1⅞ SM.
Rwy 32, helicopter visibility reduction below ¾ SM NA.

TOLEDO, OH

Amdt 19D, 10SEP20 (20254) (FAA) ELEV **683**

EUGENE F KRANZ TOLEDO EXPRESS (TOL)

RADAR-1 134.35 317.55 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	25		AB	**1040**/24	362	(400-½)	C	**1040**/35	362	(400-⅝)
			DE	**1040**/55	362	(400-1)				
	16		ABC	**1060**-1	386	(400-1)	DE	**1060**-1¼	386	(400-1¼)
	34		AB	**1080**-1	412	(500-1)	CD	**1080**-1¼	412	(500-1¼)
			E	**1080**-1½	412	(500-1½)				
	7		AB	**1140**/24	457	(500-½)	C	**1140**/45	457	(500-1⅞)
			DE	**1140**/50	457	(500-1)				
C CIRCLING			AB	**1200**-1	517	(600-1)	C	**1300**-1¾	617	(700-1¾)
			D	**1360**-2¼	677	(700-2¼)	E	**1400**-2½	717	(800-2½)

When Control Tower closed, ASR NA.
Rwy 16 helicopter visibility reduction below ¾ SM not authorized.
Rwy 34 helicopter visibility reduction below ¾ SM not authorized.
For inoperative ALS, increase S-7 CAT D/E visibility to 1⅜ SM.
For inoperative ALS, increase S-25 CAT C/E visibility to RVR 5500.

YOUNGSTOWN-WARREN, OH

Amdt 14, 25APR19 (19115) (FAA) ELEV **1192**

YOUNGSTOWN-WARREN RGNL (YNG)

RADAR-1 133.95 322.3 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	14		AB	**1520**-½	386	(400-½)	CD	**1520**-⅝	386	(400-⅝)
	5		ABCD	**1540**-1	376	(400-1)				
	23		AB	**1580**-1	388	(400-1)	CD	**1580**-1⅛	388	(400-1⅛)
	32		AB	**1600**/24	414	(500-½)	CD	**1600**/40	414	(500-¾)
C CIRCLING			A	**1640**-1	448	(500-1)	B	**1660**-1	468	(500-1)
			C	**1740**-1½	548	(600-1½)	D	**1760**-2	568	(600-2)

Straight-in/Circling Rwy 5 NA at night.
Rwy 5 helicopter visibility reduction below 1 SM NA.
Rwy 23 helicopter visibility reduction below ¾ SM NA.
For inoperative ALS increase ASR-32 Cat C/D visibility to RVR 6000.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
21056

N3

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LAND AND HOLD-SHORT OPERATIONS (LAHSO)

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

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

CITY/AIRPORT	LDG RWY	HOLD-SHORT POINT	AVBL LDG DIST
AKRON, OH			
AKRON-CANTON RGNL (CAK)	05	01-19	5,723 feet
	19	05-23	3,100 feet
BLOOMINGTON, IN			
MONROE COUNTY (BMG)	17	06-24	6,100 feet
LAFAYETTE, IN			
PURDUE UNIVERSITY (LAF)	10	05-23	4,600 feet
MANSFIELD, OH			
MANSFIELD LAHM RGNL (MFD)	05	14-32	4,363 feet
	14	05-23	6,100 feet
MUNCIE, IN			
DELAWARE COUNTY RGNL (MIE)	14	03-21	4,300 feet
	21	14-32	3,500 feet
TERRE HAUTE, IN			
TERRE HAUTE RGNL (HUF)	05	14-32	7,240 feet
	32	05-23	4,237 feet

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O1

HOT SPOTS

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

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

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
AKRON, OH		
AKRON-CANTON RGNL (CAK)	HS 1	ILS hold short line proximity to transient parking ramp.
	HS 2	Rwy 01-19 and Rwy 05-23 hold short line on Twy C east of Rwy 01-19.
	HS 3	Hold short lines on Twy K between Rwy 01-19 and Rwy 05-23 are nearly co-located.
CINCINNATI, OH		
CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUK)	HS 1	Twy C and Rwy 03L apch area.
	HS 2	Twy A and Rwy 21R.
	HS 3	Departing acft on Rwy 21L can expect to hold short of Rwy 25 on Twy A.
	HS 4	Terminal ramp and Rwy 07, need ATC authorization to depart terminal ramp area.
CLEVELAND, OH		
CLEVELAND-HOPKINS INTL (CLE)	HS 1	Complex int of Rwy 06R-24L and Twy S, Twy L.
COLUMBUS, IN		
COLUMBUS MUNI (BAK)	HS 1	Twy A and Twy B.
COLUMBUS, OH		
OHIO STATE UNIVERSITY (OSU)	HS 1	When holding short of Rwy 09R, aircraft must clear Rwy 05 hold short line on Twy A, west of Rwy 05.
	HS 2	Rwy 05 hold short line close proximity to west ramp on Twy A.
	HS 3	Int Rwy 27R, Rwy 23 -wrong rwy departure risk.
COLUMBUS, OH		
JOHN GLENN COLUMBUS INTL (CMH)	HS 1	Area not visible from the twr.
DAYTON, OH		
JAMES M COX DAYTON INTL (DAY)	HS 1	Taxiing via Twy D, Rwy 36, Twy H.
EVANSVILLE, IN		
EVANSVILLE RGNL (EVV)	HS 1	Twy G and Rwy 18-36, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering twy G.
	HS 2	Rwy 27 and Twy A.

(SEE CONTINUATION PAGE FOR MORE LISTINGS)

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HOT SPOTS

(CONTINUED)

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
LAFAYETTE, IN		
PURDUE UNIVERSITY (LAF)	HS 1	Complex int Twy B, Twy B3, Twy C.
YOUNGSTOWN-WARREN, OH		
YOUNGSTOWN-WARREN RGNL (YNG)	HS 1	Rwy 23 hold short line on Twy H southeast of Rwy 23.

*See appropriate Chart Supplement HOT SPOT table for additional information.

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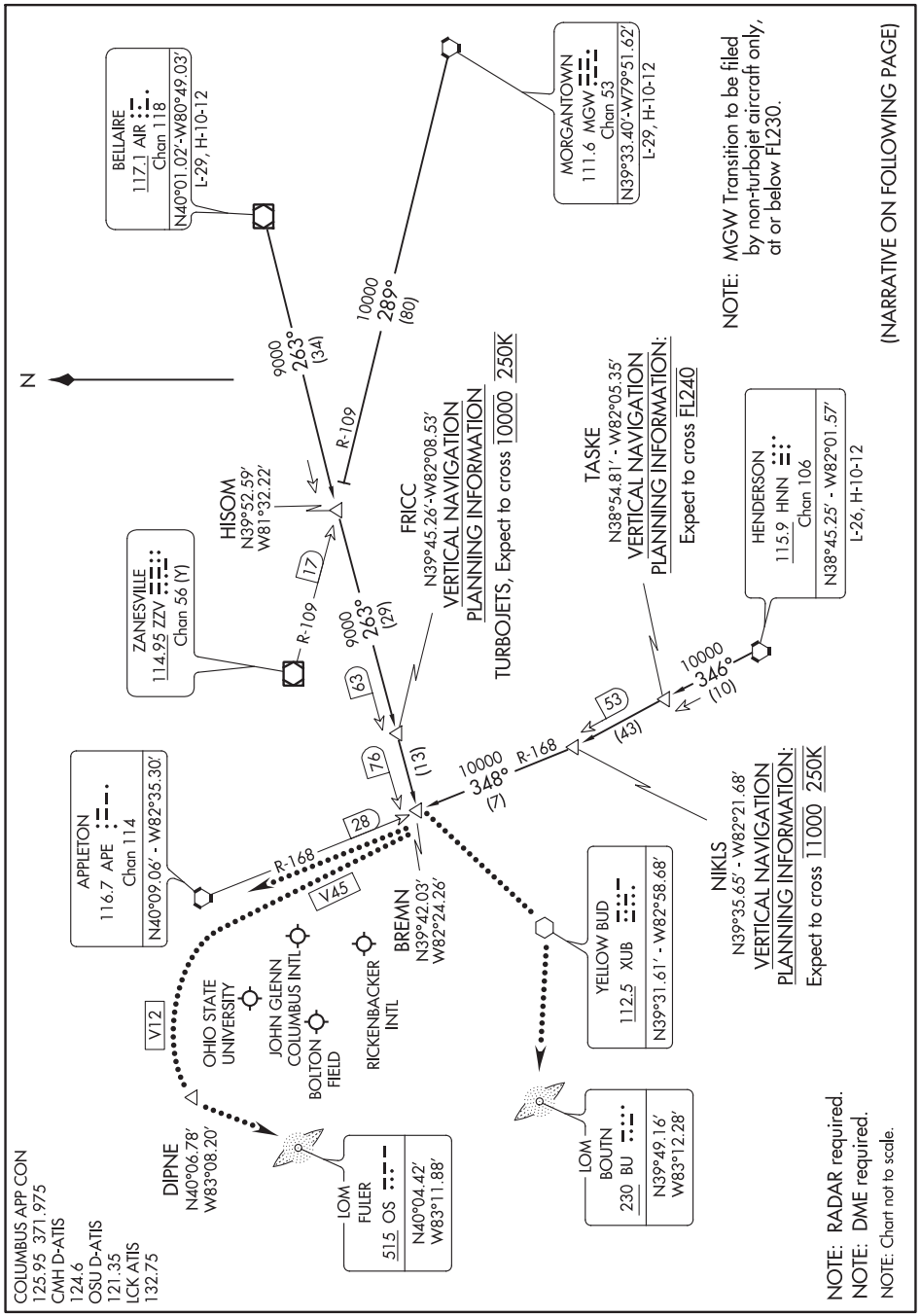
N
BELLAIRE
117.1 AIR
Chan 118
N40°01.02'-W80°49.03'
L-29, H-10-12
MORGANTOWN
111.6 MGW
Chan 53
N39°33.40'-W79°51.62'
L-29, H-10-12
NOTE: MGW Transition to be filed by non-turbojet aircraft only, at or below FL230.
(NARRATIVE ON FOLLOWING PAGE)
10000
289°
(80)
9000
263°
(34)
R-109
HISOM
N39°52.59'
W81°32.22'
FRICC
N39°45.26'-W82°08.53'
VERTICAL NAVIGATION
PLANNING INFORMATION
TURBOJETS, Expect to cross 10000 250K
TASKE
N38°54.81' - W82°05.35'
VERTICAL NAVIGATION
PLANNING INFORMATION:
Expect to cross FL240
ZANESVILLE
114.95 ZZV
Chan 56 (Y)
17
R-109
9000
263°
(29)
63
HENDERSON
115.9 HNN
Chan 106
N38°45.25' - W82°01.57'
L-26, H-10-12
10000
346°
(10)
53
(43)
76
(13)
10000
348°
(7)
R-168
APPLETON
116.7 APE
Chan 114
N40°09.06' - W82°35.30'
28
R-168
V45
BREMN
N39°42.03'
W82°24.26'
NIKLS
N39°35.65' - W82°21.68'
VERTICAL NAVIGATION
PLANNING INFORMATION:
Expect to cross 11000 250K
YELLOW BUD
112.5 XUB
N39°31.61' - W82°58.68'
V12
OHIO STATE UNIVERSITY
JOHN GLENN COLUMBUS INTL
BOLTON FIELD
RICKENBACKER INTL
DIPNE
N40°06.78'
W83°08.20'
LOM
FULER
515 OS
N40°04.42'
W83°11.88'
LOM
BOUTN
230 BU
N39°49.16'
W83°12.28'
COLUMBUS APP CON
125.95 371.975
CMH D-ATIS
124.6
OSU D-ATIS
121.35
LCK ATIS
132.75
NOTE: RADAR required.
NOTE: DME required.
NOTE: Chart not to scale.
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ARRIVAL ROUTE DESCRIPTION

BELLAIRE TRANSITION (AIR.BREMN5): From over AIR VOR/DME on AIR R-263 to BREMN. Thence. . . .

HENDERSON TRANSITION (HNN.BREMN5): From over HNN VORTAC on HNN R-346 to NIKLS, then on APE R-168 to BREMN. Thence. . . .

MORGANTOWN TRANSITION (MGW.BREMN5): From over MGW VORTAC on MGW R-289 and ZZV R-109 to HISOM, then on AIR R-263 to BREMN. Thence. . . .

. . . . from over BREMN, expect radar vectors to final approach course.

LOST COMMUNICATION PROCEDURE:

LANDING JOHN GLENN COLUMBUS INTL: In the event of lost communications from BREMN direct APE VORTAC, maintain 3000 until APE VORTAC.

LANDING OHIO STATE UNIVERSITY: In the event of lost communications from BREMN on V45 to APE VORTAC then on V12 to DIPNE then direct FULER (OS) LOM, maintain 3000 until FULER (OS) LOM (ADF Required).

LANDING BOLTON FIELD: In the event of lost communications from BREMN to XUB VOR direct BOUTN (BU) LOM, maintain 3000 until BOUTN (BU) LOM (ADF Required).

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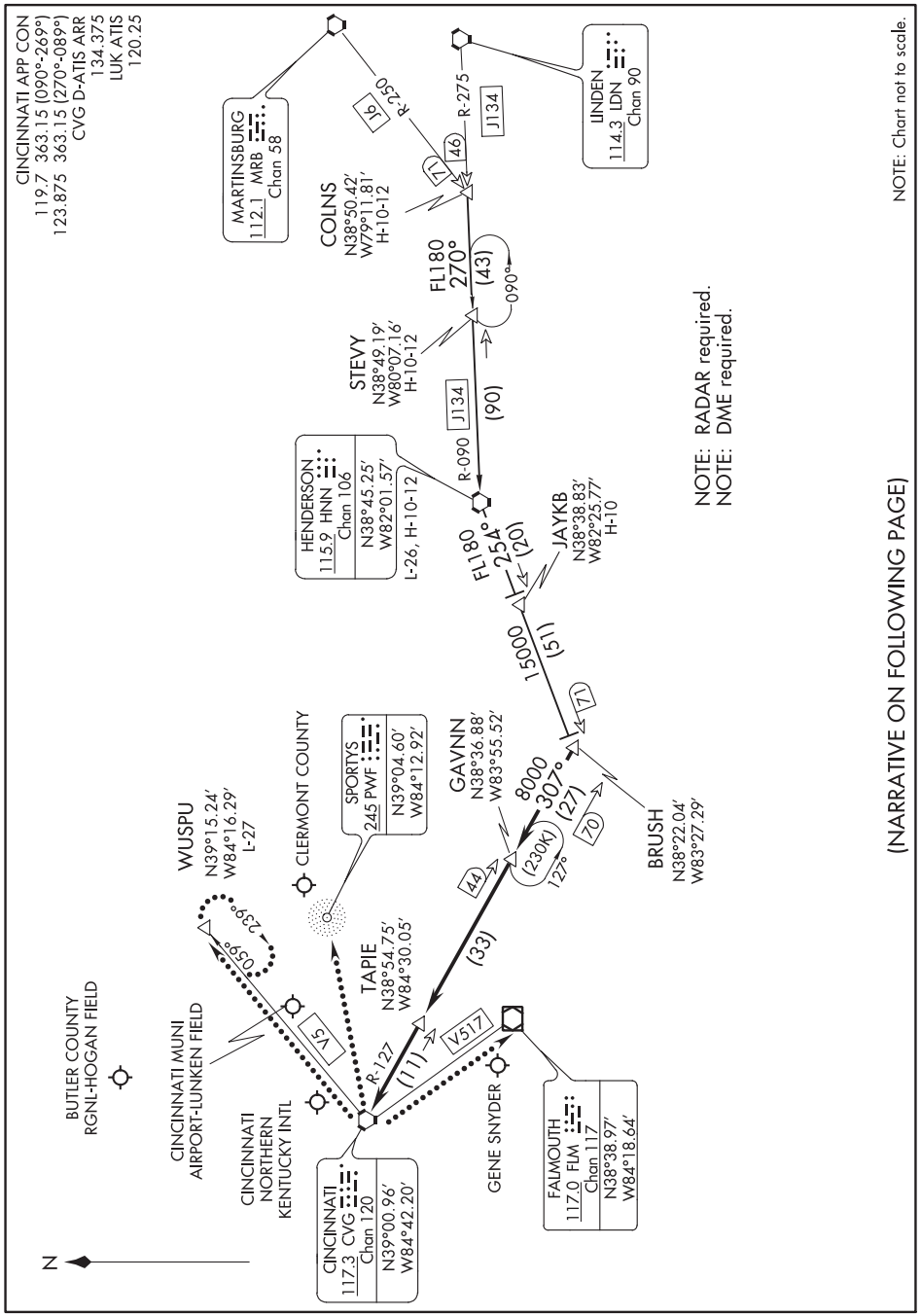
BRUSH FOUR ARRIVAL

CINCINNATI, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

BRUSH FOUR ARRIVAL

CINCINNATI, OHIO

ARRIVAL ROUTE DESCRIPTION

COLNS TRANSITION (COLNS.BRUSH4): From over COLNS on HNN R-090 to HNN VORTAC, then on HNN R-254 to BRUSH. Thence. . . .

HENDERSON TRANSITION (HNN.BRUSH4): From over HNN VORTAC on HNN R-254 to BRUSH. Thence. . . .

. . . .from over BRUSH on CVG R-127 to CVG VORTAC. Expect vectors to final approach course after GAVNN.

LOST COMMUNICATIONS

In the event of lost communications:
For LUK: At CVG VORTAC, proceed on V5 to WUSPU and hold, maintain 4000.
For I69: At CVG VORTAC, proceed to SPORTYS (PWF) maintain 4000 until SPORTYS (PWF).
For K62: At CVG VORTAC proceed on V517 to FLM VOR/DME, maintain 3000 until FLM VOR/DME.

EC-2, 25 FEB 2021 to 22 APR 2021

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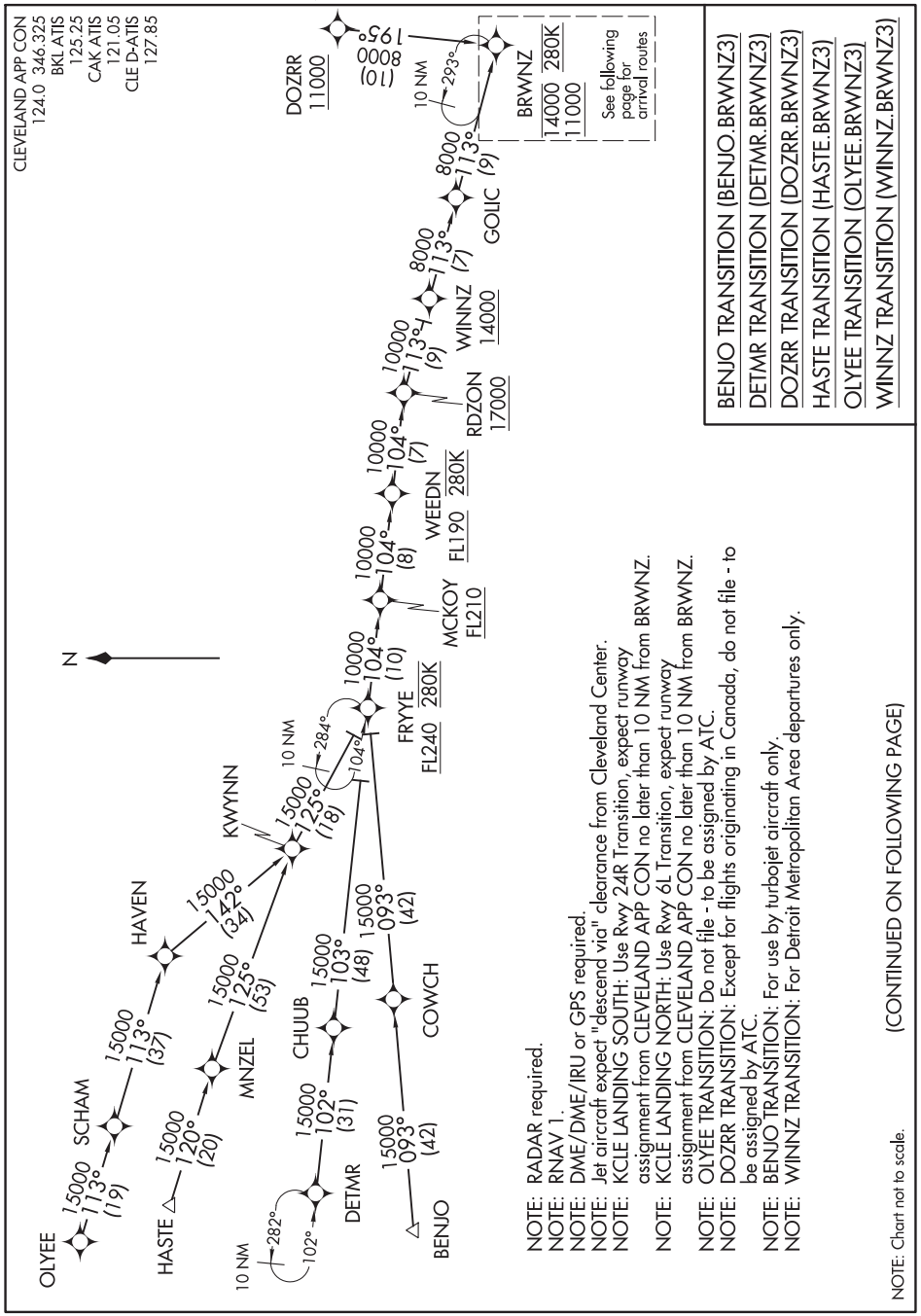
BRWNZ THREE ARRIVAL (RNAV) Transition Routes

CLEVELAND, OHIO



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Jet aircraft expect "descend via" clearance from Cleveland Center.
NOTE: KCLE LANDING SOUTH: Use Rwy 24R Transition, expect runway assignment from CLEVELAND APP CON no later than 10 NM from BRWNZ.
NOTE: KCLE LANDING NORTH: Use Rwy 6L Transition, expect runway assignment from CLEVELAND APP CON no later than 10 NM from BRWNZ.
NOTE: OLYEE TRANSITION: Do not file - to be assigned by ATC.
NOTE: DOZRR TRANSITION: Except for flights originating in Canada, do not file - to be assigned by ATC.
NOTE: BENJO TRANSITION: For use by turbojet aircraft only.
NOTE: WINNZ TRANSITION: For Detroit Metropolitan Area departures only.

NOTE: Chart not to scale.

(CONTINUED ON FOLLOWING PAGE)

EC-2, 25 FEB 2021 to 22 APR 2021

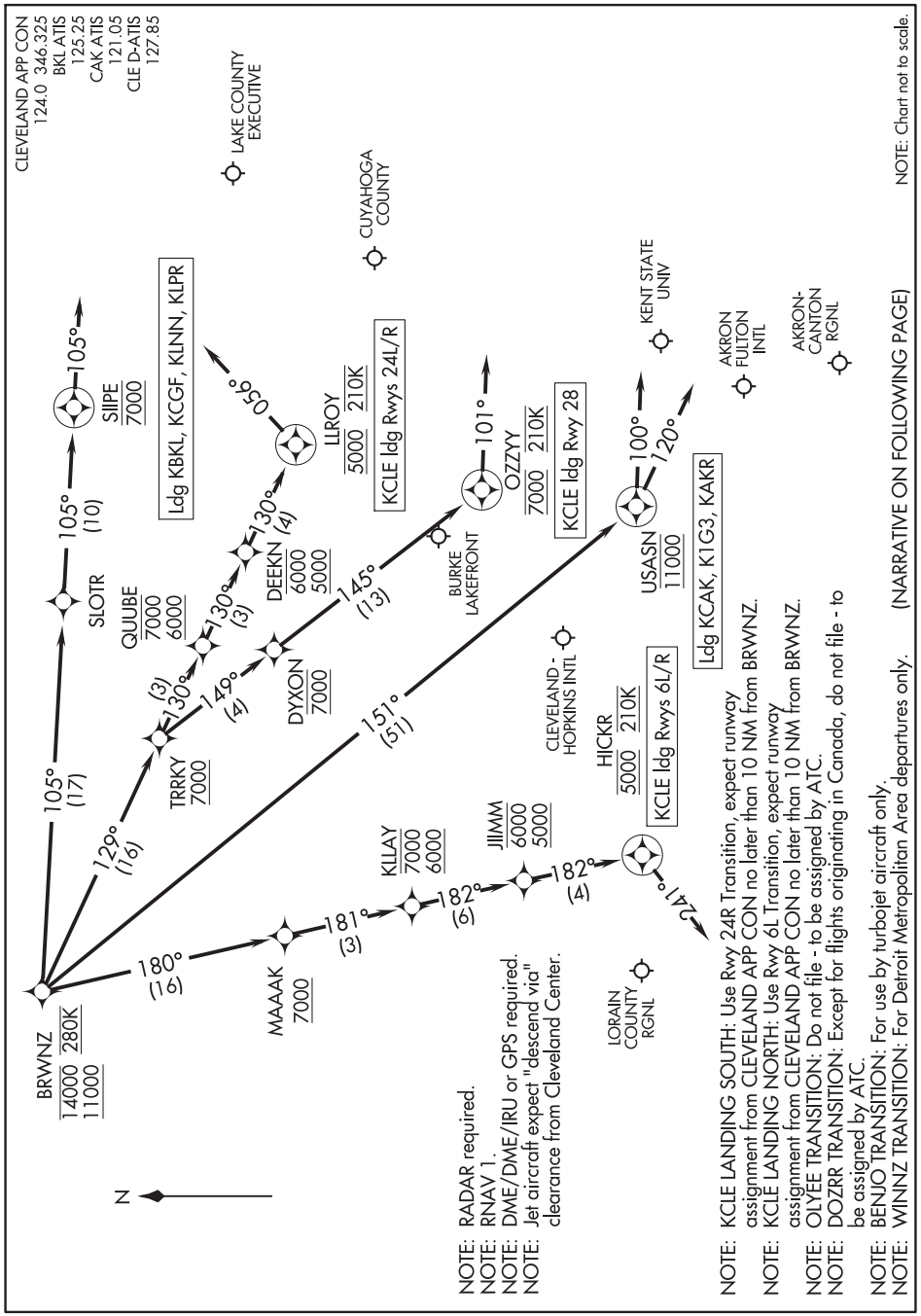
BRWNZ THREE ARRIVAL (RNAV) Transition Routes

CLEVELAND, OHIO

(BRWNZ.BRWNZ3) 20198

BRWNZ THREE ARRIVAL (RNAV) Arrival Routes

CLEVELAND, OHIO



BRWNZ THREE ARRIVAL (RNAV) Arrival Routes

CLEVELAND, OHIO

(BRWNZ.BRWNZ3) 26MAR20

EC-2, 25 FEB 2021 to 22 APR 2021

ARRIVAL ROUTE DESCRIPTION

LANDING KCLE RUNWAYS 6L/R: From BRWNZ on track 180° to cross MAAAK at or above 7000, then on track 181° to cross KLLAY between 6000 and 7000, then on track 182° to cross JIIMM between 5000 and 6000, then on track 182° to cross HICKR at 5000 and at 210K, then on heading 241° or as assigned by ATC. Expect ILS, RNAV (RNP), or RNAV (GPS) approach from HICKR, or RADAR vectors to final approach course.

LANDING KCLE RUNWAYS 24L/R: From BRWNZ on track 129° to cross TRRKY at or above 7000, then on track 130° to cross QUUBE between 6000 and 7000, then on track 130° to cross DEEKN between 5000 and 6000, then on track 130° to cross LLROY at 5000 and at 210K, then on heading 056° or as assigned by ATC. Expect ILS, RNAV (RNP), or RNAV (GPS) approach from LLROY, or RADAR vectors to final approach course.

LANDING KCLE RUNWAY 28: From BRWNZ on track 129° to cross TRRKY at or above 7000, then on track 149° to cross DYXON at 7000, then on track 145° to cross OZZYY at 7000 and at 210K, then on heading 101° or as assigned by ATC. Expect RADAR vectors to final approach course.

LANDING K1G3/KAKR: From BRWNZ on track 151° to cross USASN at 11000, then on track 100°. Expect RADAR vectors to final approach course.

LANDING KLPR/KLNN/KCGF/KBKL: From BRWNZ on track 105° to SLOTR, then on track 105° to cross SIIPE at 7000, then on track 105°. Expect RADAR vectors to final approach course.

LANDING KCAK: From BRWNZ on track 151° to cross USASN at 11000, then on track 120°. Expect RADAR vectors to final approach course.

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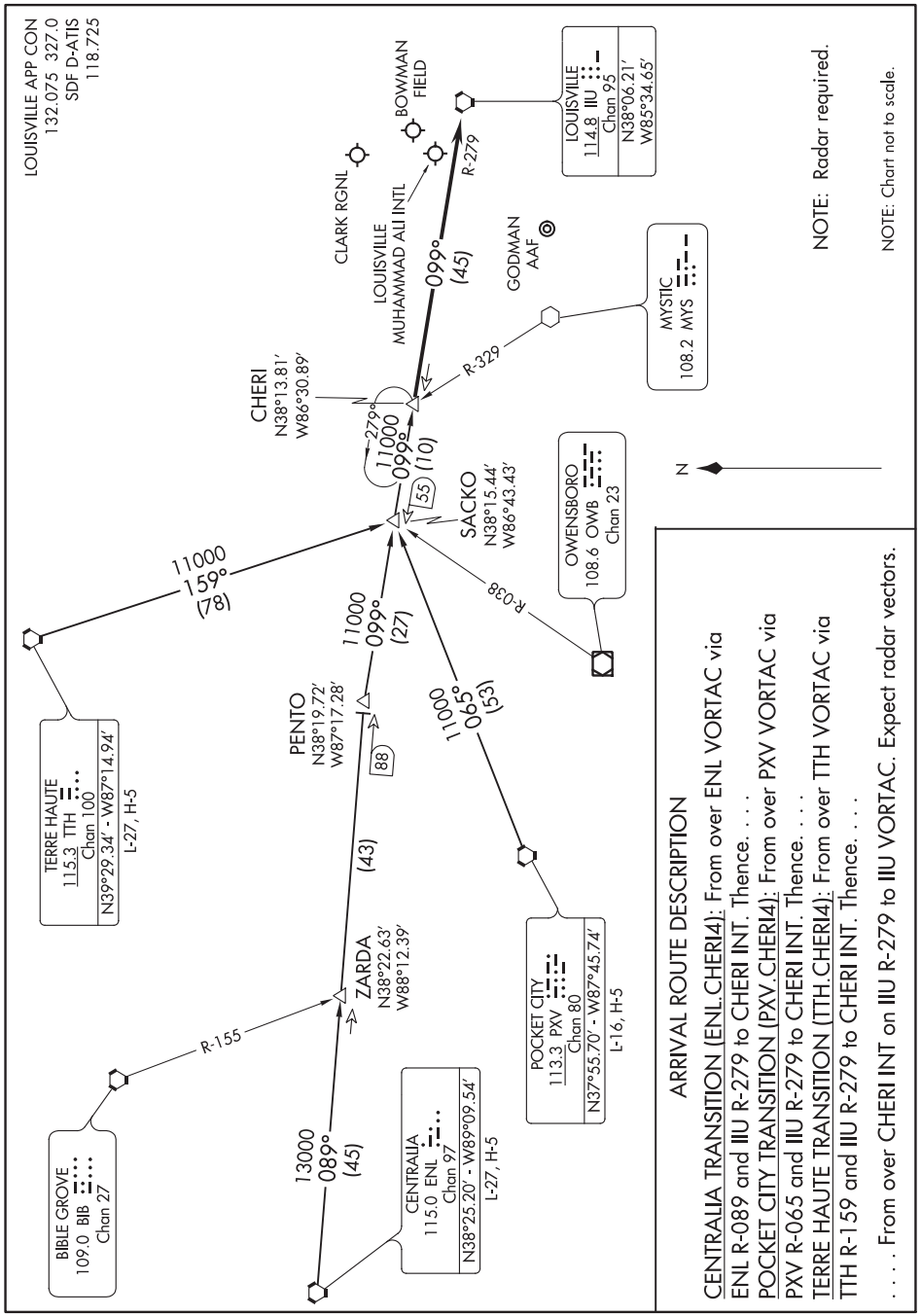
(CHERI.CHERI4) 20310

CHERI FOUR ARRIVAL

LOUISVILLE, KENTUCKY



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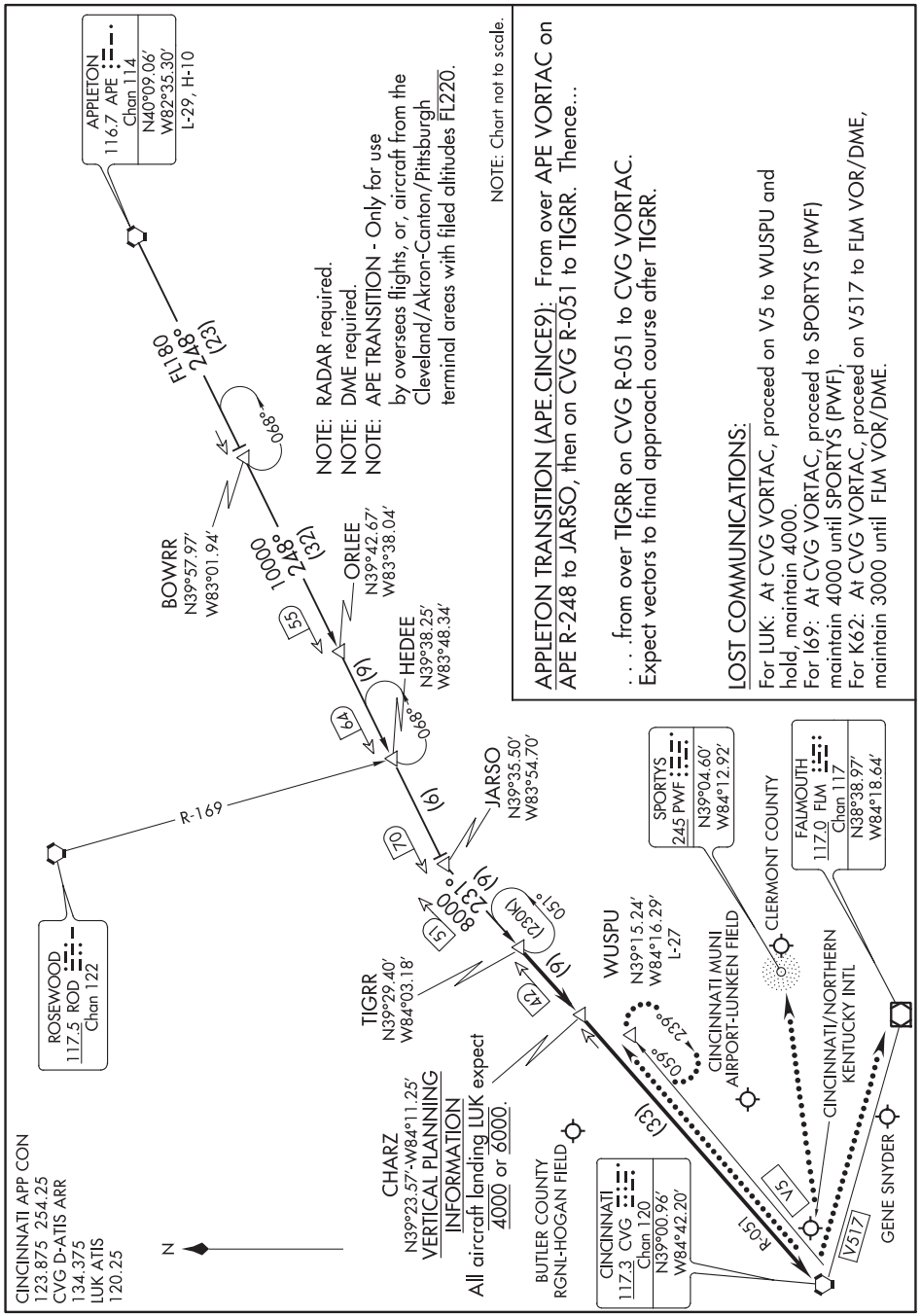
CHERI FOUR ARRIVAL
LOUISVILLE, KENTUCKY

(CHERI.CHERI4) 15AUG19

CINCE NINE ARRIVAL

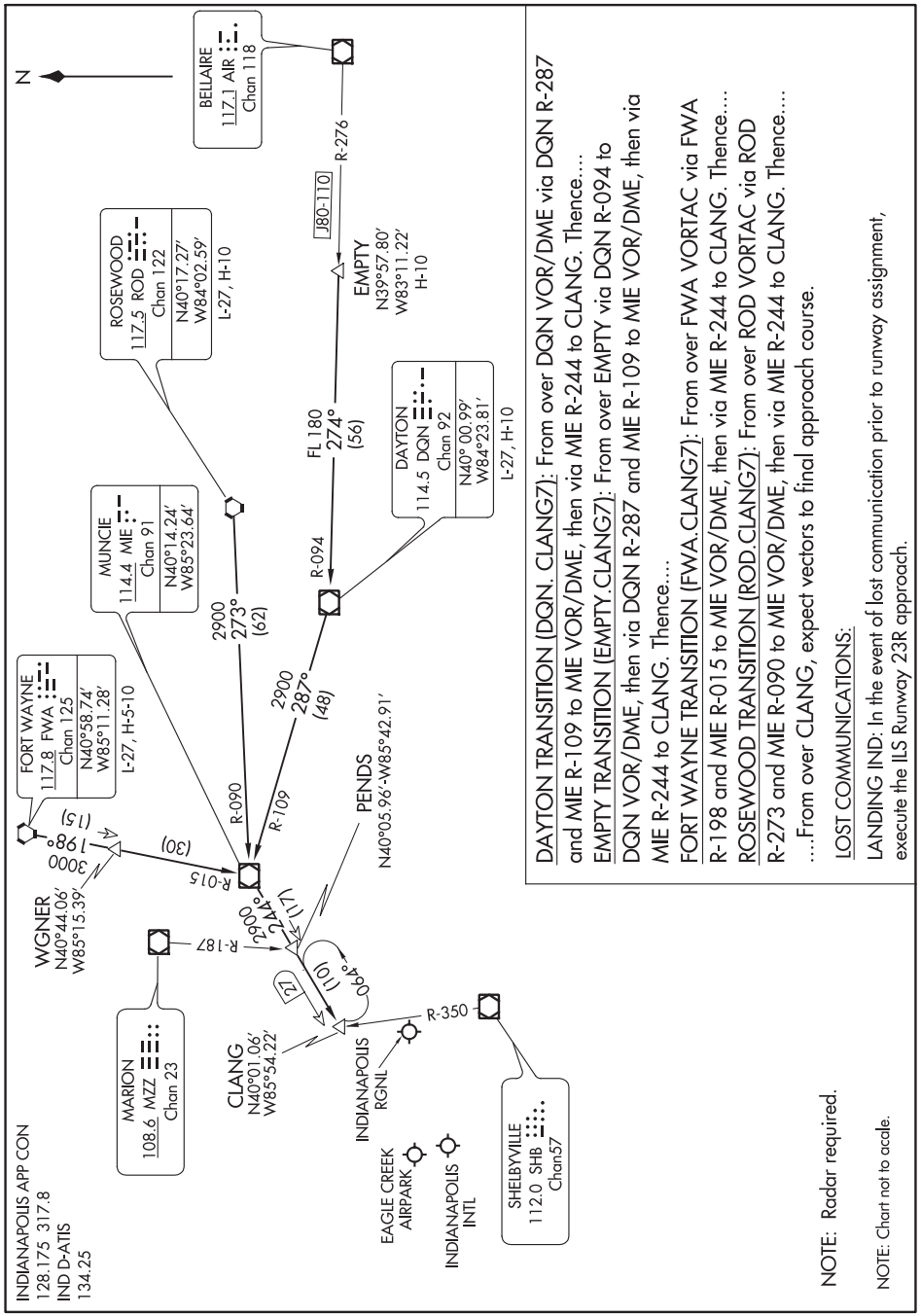
CINCINNATI, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

CINCE NINE ARRIVAL

CINCINNATI, OHIO



DAYTON TRANSITION (DQN. CLANG7): From over DQN VOR/DME via DQN R-287 and MIE R-109 to MIE VOR/DME, then via MIE R-244 to CLANG. Thence....

EMPTY TRANSITION (EMPTY.CLANG7): From over EMPTY via DQN R-094 to DQN VOR/DME, then via DQN R-287 and MIE R-109 to MIE VOR/DME, then via MIE R-244 to CLANG. Thence....

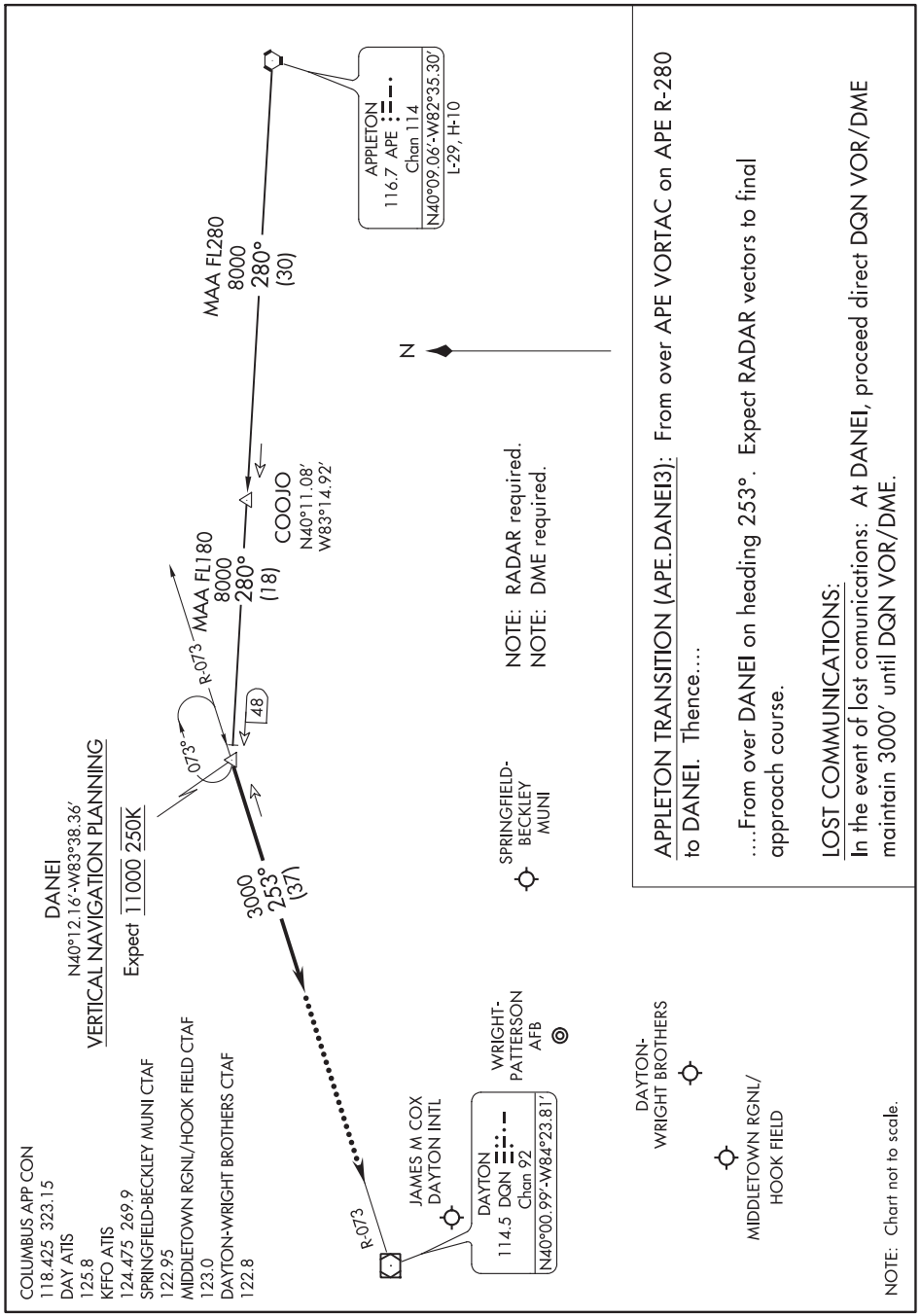
FORT WAYNE TRANSITION (FWA.CLANG7): From over FWA VORTAC via FWA R-198 and MIE R-015 to MIE VOR/DME, then via MIE R-244 to CLANG. Thence....

ROSEWOOD TRANSITION (ROD.CLANG7): From over ROD VORTAC via ROD R-273 and MIE R-090 to MIE VOR/DME, then via MIE R-244 to CLANG. Thence....

....From over CLANG, expect vectors to final approach course.

LOST COMMUNICATIONS:

LANDING IND: In the event of lost communication prior to runway assignment, execute the ILS Runway 23R approach.


COLUMBUS APP CON
118.425 323.15
DAY ATIS
125.8
KFFO ATIS
124.475 269.9
SPRINGFIELD-BECKLEY MUNI CTAF
122.95
MIDDLETOWN RGNL/HOOK FIELD CTAF
123.0
DAYTON-WRIGHT BROTHERS CTAF
122.8
DANEI
N40°12.16'-W83°38.36'
VERTICAL NAVIGATION PLANNING
Expect 11000 250K
073°
R-073
MAA FL180
8000
280°
(18)
48
3000
253°
(37)
R-073
MAA FL280
8000
280°
(30)
COOJO
N40°11.08'
W83°14.92'
APPLETON
116.7 APE
Chan 114
N40°09.06'-W82°35.30'
L-29, H-10
N
JAMES M COX
DAYTON INTL
DAYTON
114.5 DQN
Chan 92
N40°00.99'-W84°23.81'
WRIGHT-
PATTERSON
AFB
SPRINGFIELD-
BECKLEY
MUNI
DAYTON-
WRIGHT BROTHERS
MIDDLETOWN RGNL/
HOOK FIELD
NOTE: RADAR required.
NOTE: DME required.
NOTE: Chart not to scale.
APPLETON TRANSITION (APE.DANEI3): From over APE VORTAC on APE R-280 to DANEI. Thence....
....From over DANEI on heading 253°. Expect RADAR vectors to final approach course.
LOST COMMUNICATIONS:
In the event of lost comunications: At DANEI, proceed direct DQN VOR/DME maintain 3000' until DQN VOR/DME.
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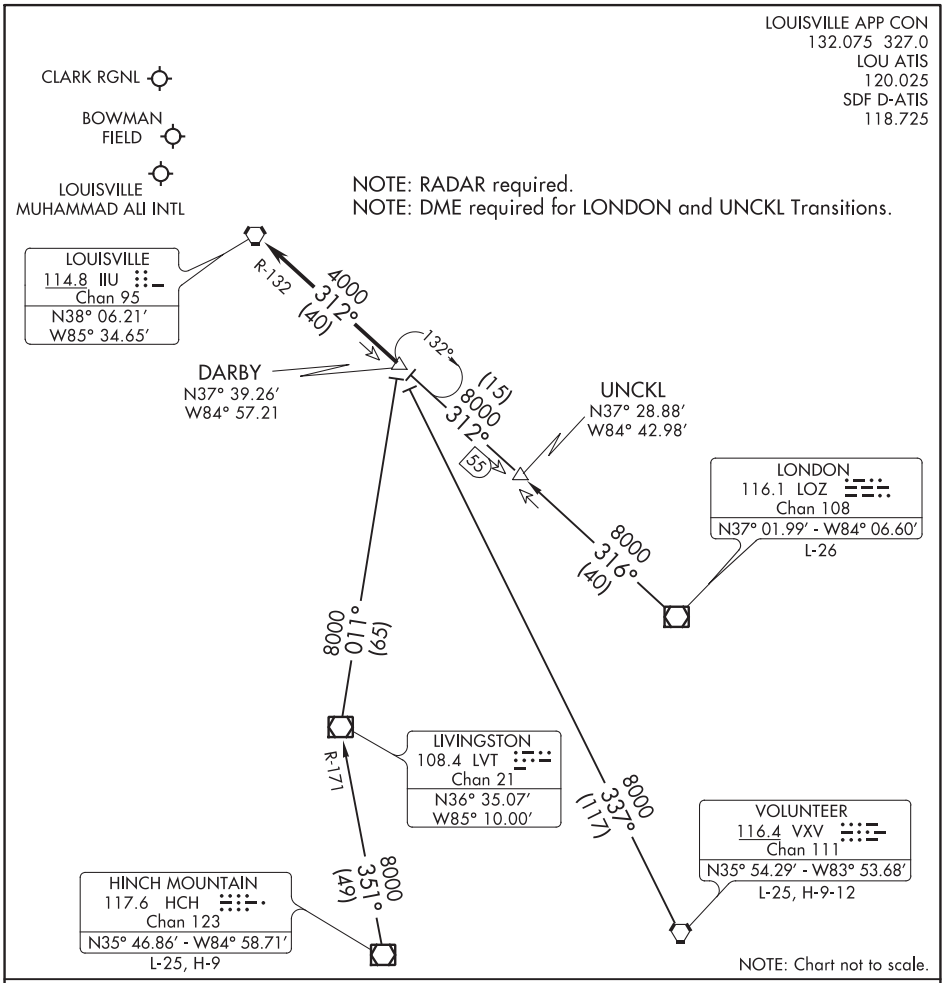
(DARBY.DARBY7) 20198 AL-239 (FAA)

DARBY SEVEN ARRIVAL

LOUISVILLE, KENTUCKY



ARRIVAL ROUTE DESCRIPTION

HINCH MOUNTAIN TRANSITION (HINCH.DARBY7): From over HCH VOR/DME via HCH R-351 and LVT R-171 to LVT VOR/DME, then via LVT R-011 to DARBY INT. Thence. . . .
LONDON TRANSITION (LOZ.DARBY7): From over LOZ VOR/DME via LOZ R-316 to UNCKL INT, then via IIU R-132 to DARBY INT. Thence. . . .
UNCKL TRANSITION (UNCKL.DARBY7): From over UNCKL INT via IIU R-132 to DARBY INT. Thence. . . .
VOLUNTEER TRANSITION (VXV.DARBY7): From over VXV VORTAC via VXV R-337 to DARBY INT. Thence. . . .

. . . . from DARBY INT on IIU R-132 to IIU VORTAC. Expect radar vectors to final course.

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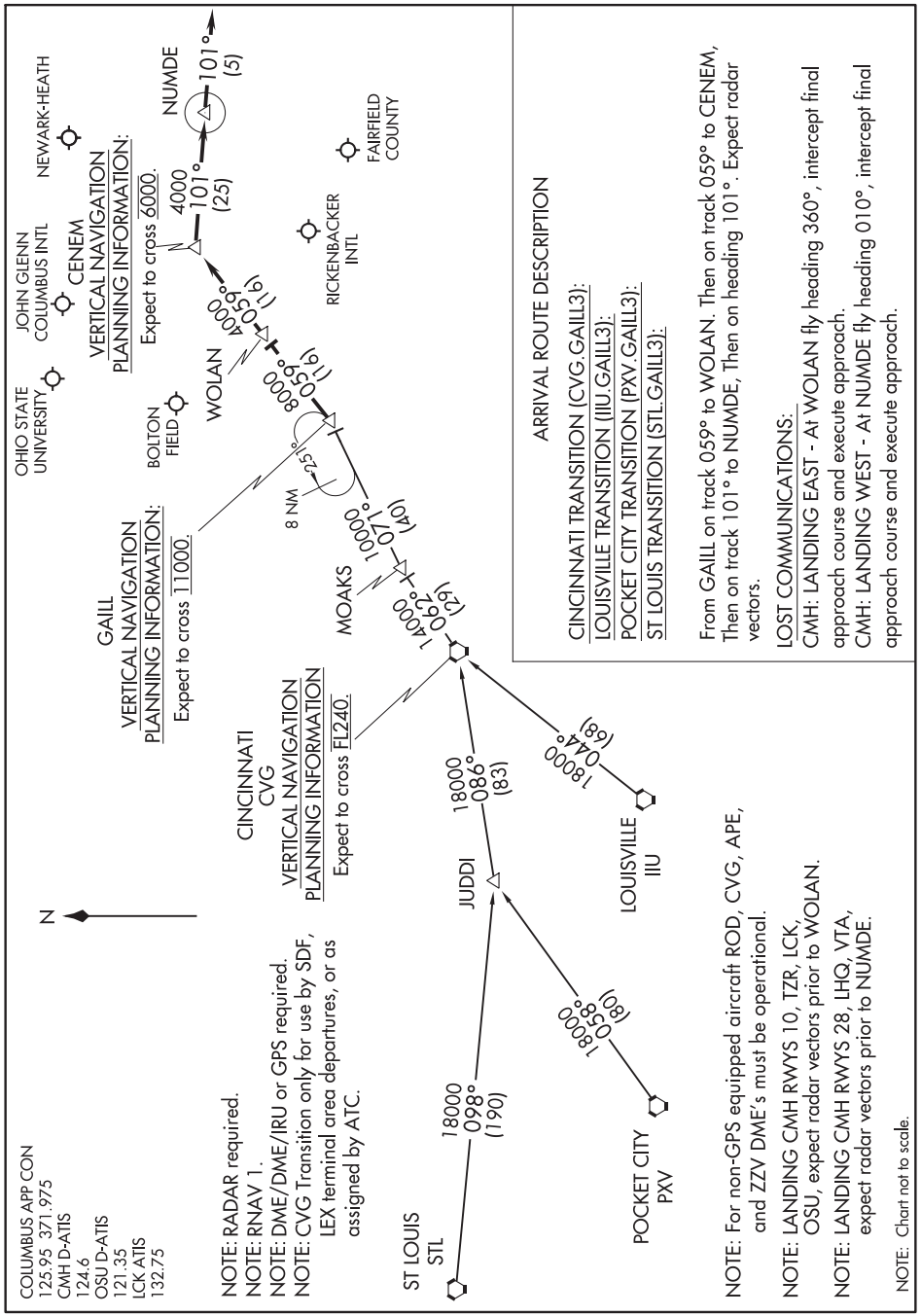
GAILL THREE ARRIVAL(RNAV)

COLUMBUS, OHIO



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GAILL THREE ARRIVAL(RNAV)

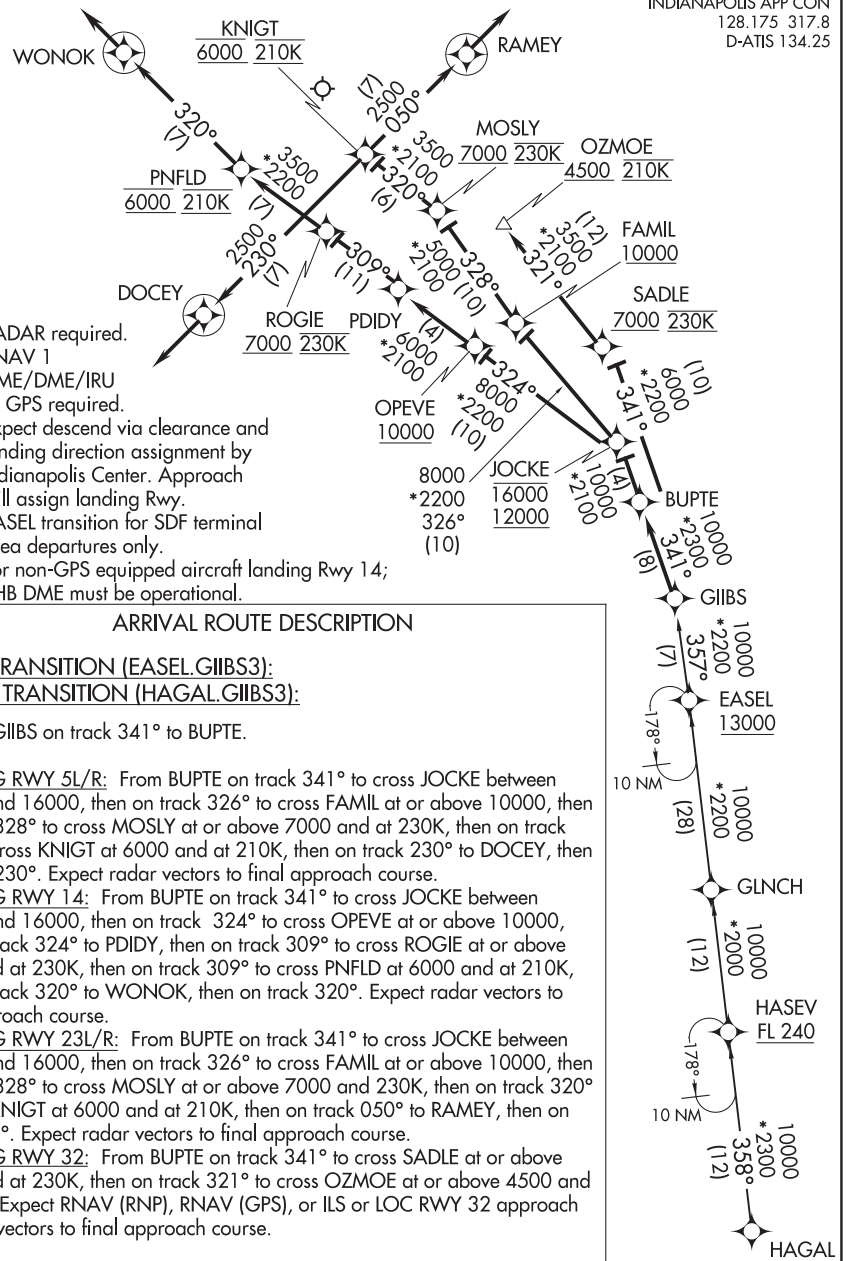
COLUMBUS, OHIO

(GIIBS.GIIBS3) 18200

GIIBS THREE ARRIVAL (RNAV)

INDIANAPOLIS INTL (IND)
INDIANAPOLIS, INDIANA

INDIANAPOLIS APP CON
128.175 317.8
D-ATIS 134.25



NOTE: RADAR required.
NOTE: RNAV 1
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect descend via clearance and landing direction assignment by Indianapolis Center. Approach will assign landing Rwy.
NOTE: EASEL transition for SDF terminal area departures only.
NOTE: For non-GPS equipped aircraft landing Rwy 14; SHB DME must be operational.

ARRIVAL ROUTE DESCRIPTION

EASEL TRANSITION (EASEL.GIIBS3):
HAGAL TRANSITION (HAGAL.GIIBS3):

....From GIIBS on track 341° to BUPTE.

LANDING RWY 5L/R: From BUPTE on track 341° to cross JOCKE between 12000 and 16000, then on track 326° to cross FAMIL at or above 10000, then on track 328° to cross MOSLY at or above 7000 and at 230K, then on track 320° to cross KNIGT at 6000 and at 210K, then on track 230° to DOCEY, then on track 230°. Expect radar vectors to final approach course.
LANDING RWY 14: From BUPTE on track 341° to cross JOCKE between 12000 and 16000, then on track 324° to cross OPEVE at or above 10000, then on track 324° to PDIDY, then on track 309° to cross ROGIE at or above 7000 and at 230K, then on track 309° to cross PNFLD at 6000 and at 210K, then on track 320° to WONOK, then on track 320°. Expect radar vectors to final approach course.
LANDING RWY 23L/R: From BUPTE on track 341° to cross JOCKE between 12000 and 16000, then on track 326° to cross FAMIL at or above 10000, then on track 328° to cross MOSLY at or above 7000 and 230K, then on track 320° to cross KNIGT at 6000 and at 210K, then on track 050° to RAMEY, then on track 050°. Expect radar vectors to final approach course.
LANDING RWY 32: From BUPTE on track 341° to cross SADLE at or above 7000 and at 230K, then on track 321° to cross OZMOE at or above 4500 and at 210K. Expect RNAV (RNP), RNAV (GPS), or ILS or LOC RWY 32 approach or radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment, execute ILS or LOC Rwy 23R approach.

NOTE: Chart not to scale.

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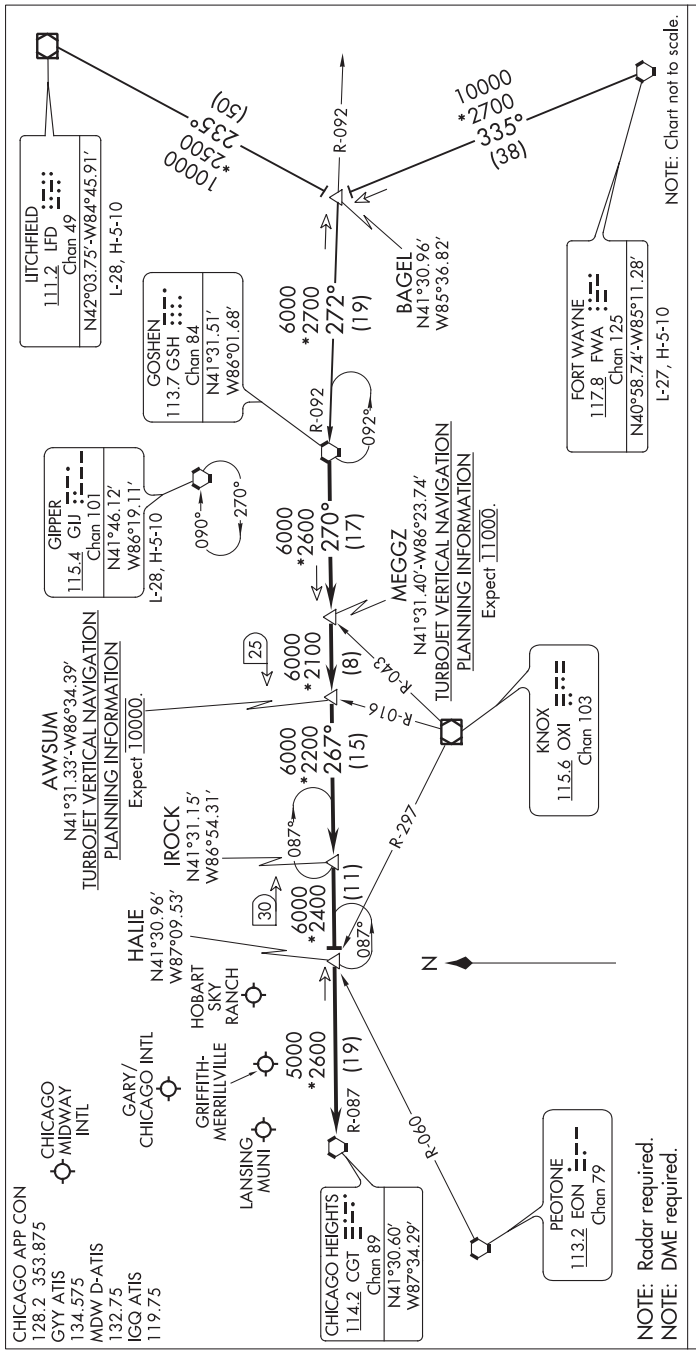

ARRIVAL ROUTE DESCRIPTION

FORT WAYNE TRANSITION (FWA.GSH7): From over FWA VORTAC on FWA R-335 to BAGEL then on GSH R-092 to GSH VORTAC. Thence....

LITCHFIELD TRANSITION (LFD.GSH7): From over LFD VOR/DME on LFD R-235 to BAGEL then on GSH R-092 to GSH VORTAC. Thence....

....From over GSH VORTAC on GSH R-270 to MEGGZ, then on GSH R-270 to AWSUM, then on GSH R-270 and CGT R-087 to IROCK, then on CGT R-087 to HALIE INT, then on CGT R-087 to CGT VORTAC. Expect radar vectors to final approach course.

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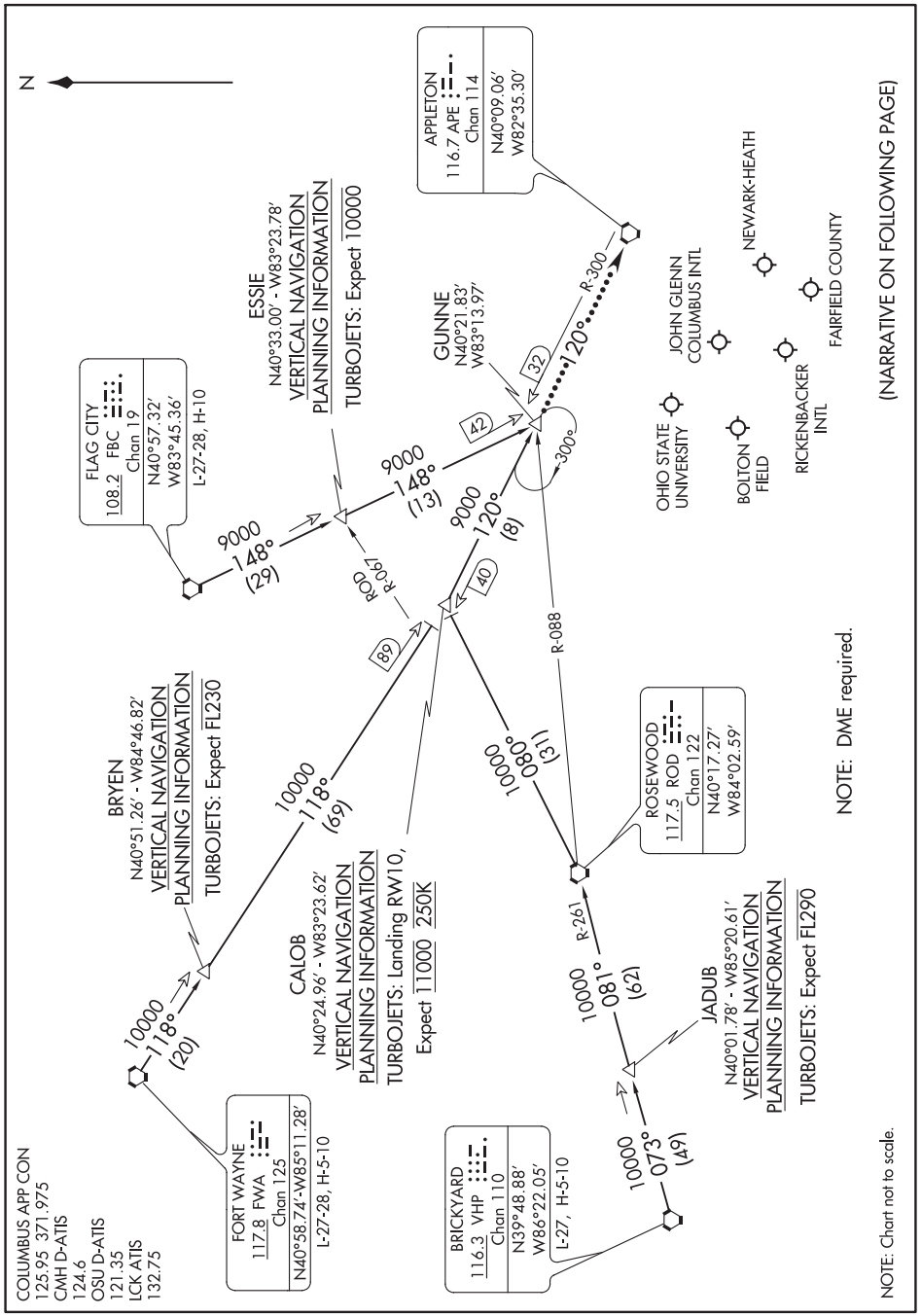
(GUNNE.GUNNE4) 20310

AL-94 (FAA)

GUNNE FOUR ARRIVAL

COLUMBUS, OHIO



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GUNNE FOUR ARRIVAL

COLUMBUS, OHIO

(GUNNE.GUNNE4) 22JUN17

ARRIVAL ROUTE DESCRIPTION

BRICKYARD TRANSITION (VHP.GUNNE4): From over VHP VORTAC on VHP R-073 to JADUB, then on ROD R-261 to ROD VORTAC, then on ROD R-080 to CALOB, then on APE R-300 to GUNNE. Thence. . . .
FLAG CITY TRANSITION (FBC.GUNNE4): From over FBC VORTAC on FBC R-148 to GUNNE. Thence. . . .
FORT WAYNE TRANSITION (FWA.GUNNE4): From over FWA VORTAC on FWA R-118 to CALOB, then on APE R-300 to GUNNE. Thence. . . .

. . . .from over GUNNE, expect radar vectors to final approach course.

LOST COMMUNICATION PROCEDURE:
In the event of lost communications: For all airports - From GUNNE direct APE VORTAC, maintain 4000 until APE VORTAC.

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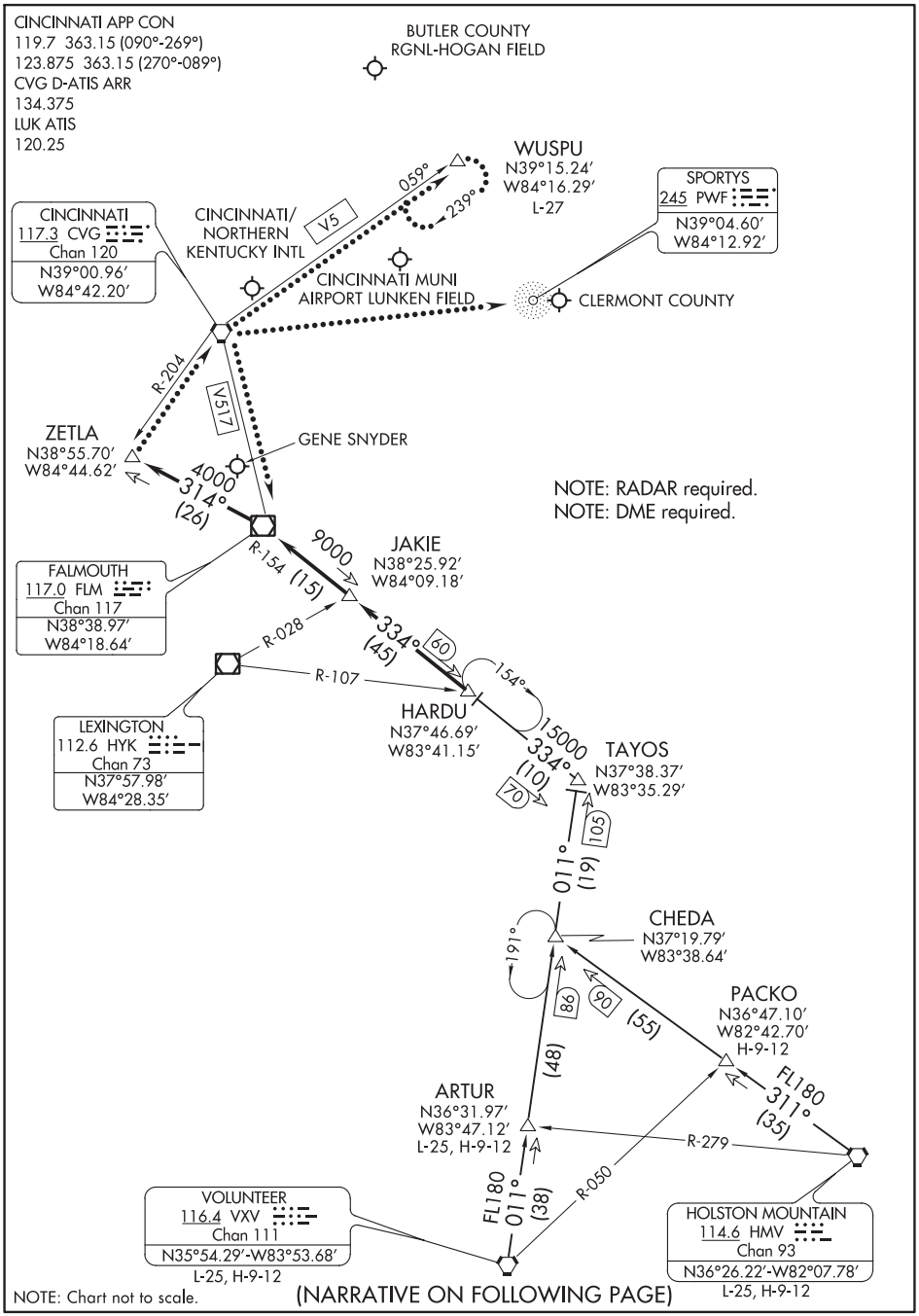
(HARDU.HARDU5) 20198

AL-655 (FAA)

HARDU FIVE ARRIVAL

CINCINNATI, OHIO



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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HARDU FIVE ARRIVAL

CINCINNATI, OHIO

ARRIVAL ROUTE DESCRIPTION

HOLSTON MOUNTAIN TRANSITION (HMV.HARDU5): From over HMV VORTAC on HMV R-311 to CHEDA, then on VXV R-011 to TAYOS, then on FLM R-154 to HARDU. Thence . . .

VOLUNTEER TRANSITION (VXV.HARDU5): From over VXV VORTAC on VXV R-011 to TAYOS, then on FLM R-154 to HARDU. Thence . . .

. . . from over HARDU on FLM VOR/DME R-154 to FLM VOR/DME, then FLM R-314 to ZETLA. Expect vectors to final approach course after JAKIE.

LOST COMMUNICATIONS

For LUK: At ZETLA, proceed to CVG VORTAC then on V5 to WUSPU and hold, maintain 4000.

For HAO: At ZETLA, proceed to CVG VORTAC. Maintain 3000 until CVG VORTAC.

For I69: At ZETLA, proceed to CVG VORTAC then to SPORTYS (PWF). Maintain 4000 until SPORTYS (PWF).

For K62: At ZETLA, proceed to CVG VORTAC then on V517 to FLM VOR/DME. Maintain 3000 until FLM VOR/DME.

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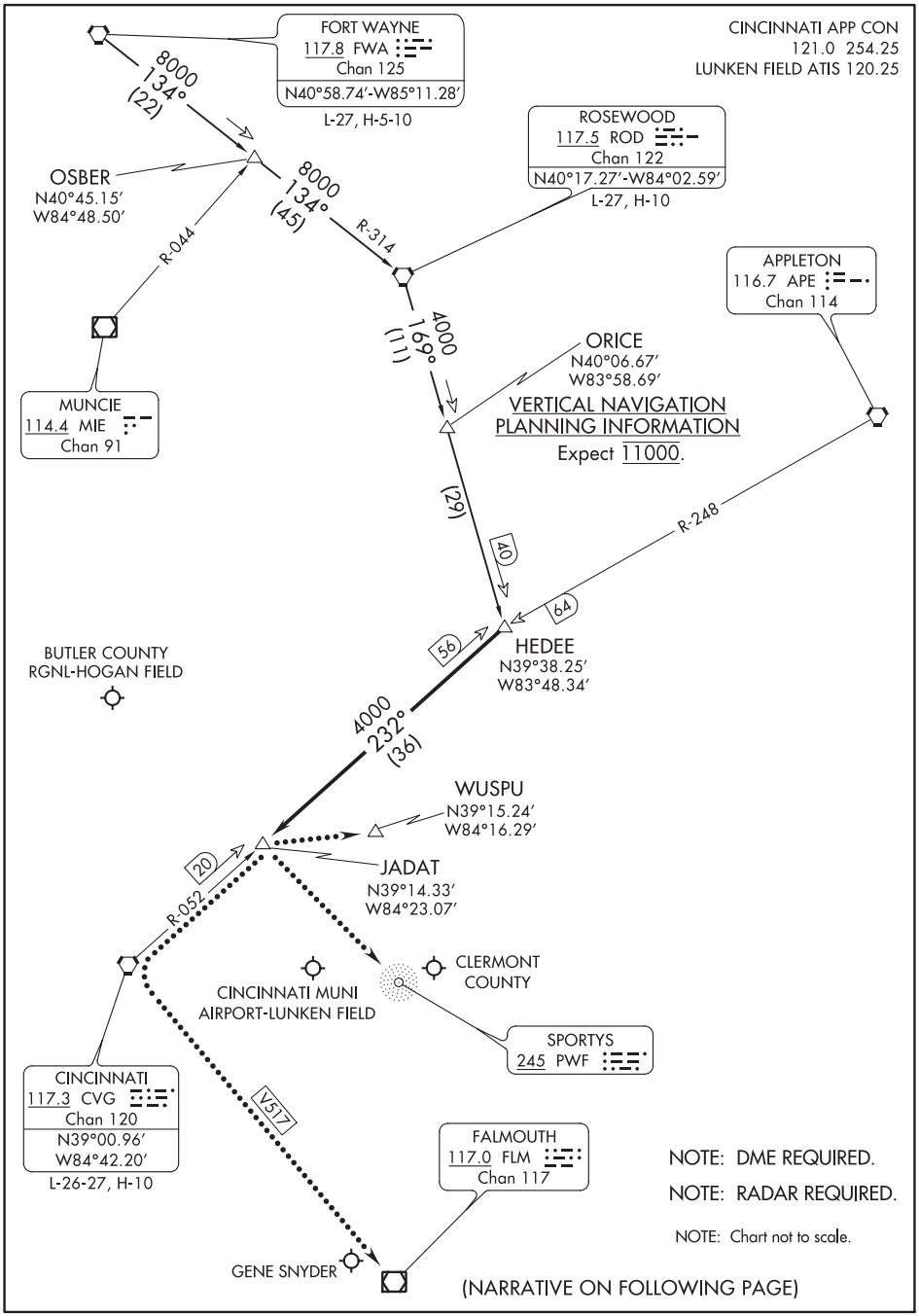
(HEDEE.HEDEE4) 20086 AL-83 (FAA)

HEDEE FOUR ARRIVAL

CINCINNATI, OHIO



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HEDEE FOUR ARRIVAL

CINCINNATI, OHIO

(HEDEE.HEDEE4) 13SEP18

ARRIVAL ROUTE DESCRIPTION

FORT WAYNE TRANSITION (FWA.HEDEE4): From over FWA VORTAC via FWA R-134 to OSBER, then via FWA R-134 and ROD R-314 to ROD VORTAC, then via ROD R-169 to HEDEE. Thence. . . .
ROSEWOOD TRANSITION (ROD.HEDEE4): From over ROD VORTAC via ROD R-169 to HEDEE. Thence. . . .

. . . .From over HEDEE on CVG R-052 (MEA 4000) to JADAT, expect radar vectors to final approach course at JADAT.

LOST COMMUNICATION PROCEDURE

CINCINNATI MUNI AIRPORT - LUNKEN FIELD - At JADAT, turn right to intercept CVG VORTAC R-059 to WUSPU and hold, maintain 4000.
CLERMONT COUNTY - At JADAT, proceed to SPORTYS (PWF) NDB, maintain 4000 until SPORTYS (PWF) NDB.
GENE SNYDER - At JADAT, proceed to CVG VORTAC then on V517 to FLM VOR/DME, maintain 4000 until FLM VOR/DME.

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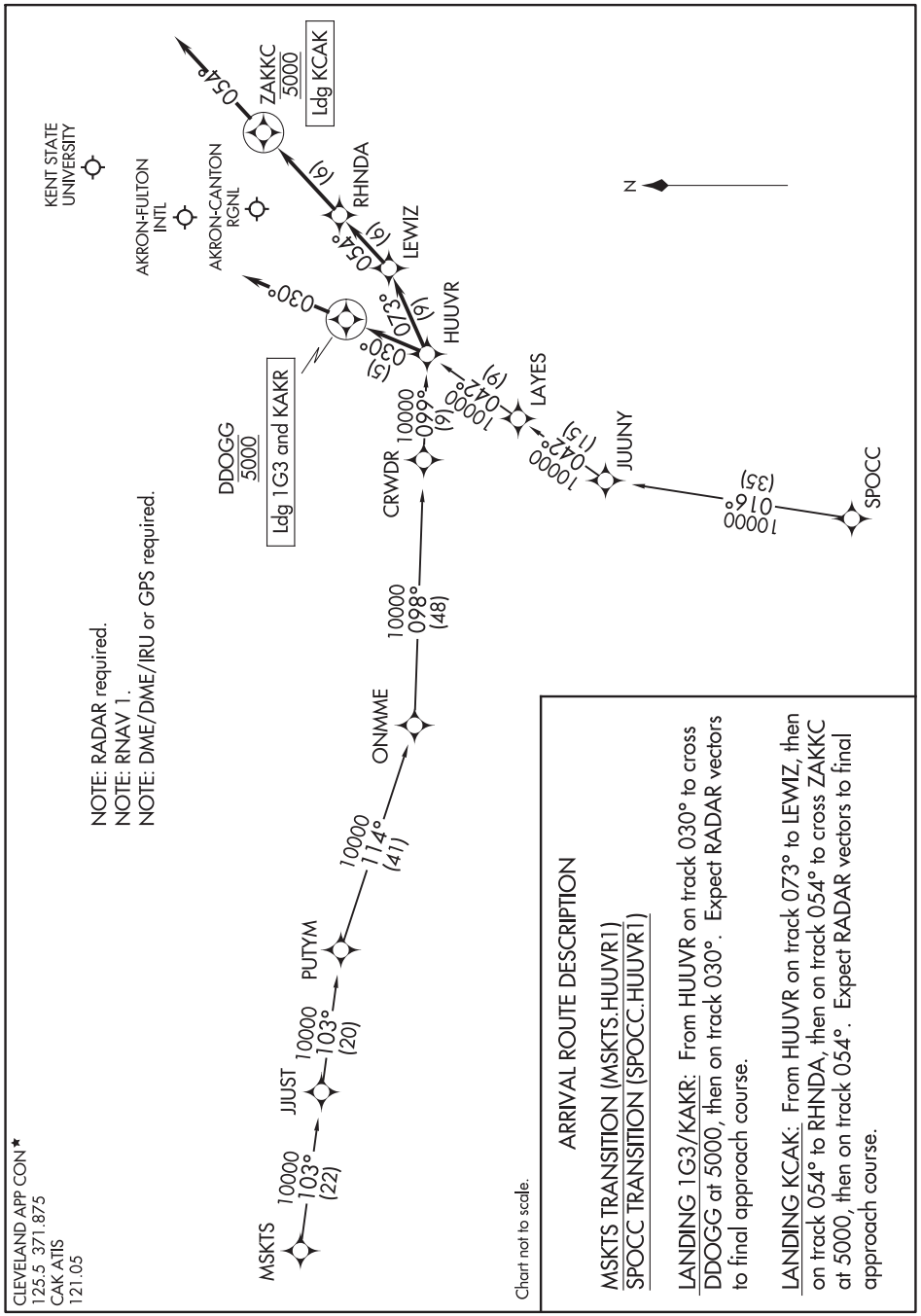
(HUUVR.HUUVR1) 20198 AL-638 (FAA)

HUUVR ONE ARRIVAL (RNAV)

AKRON, OHIO



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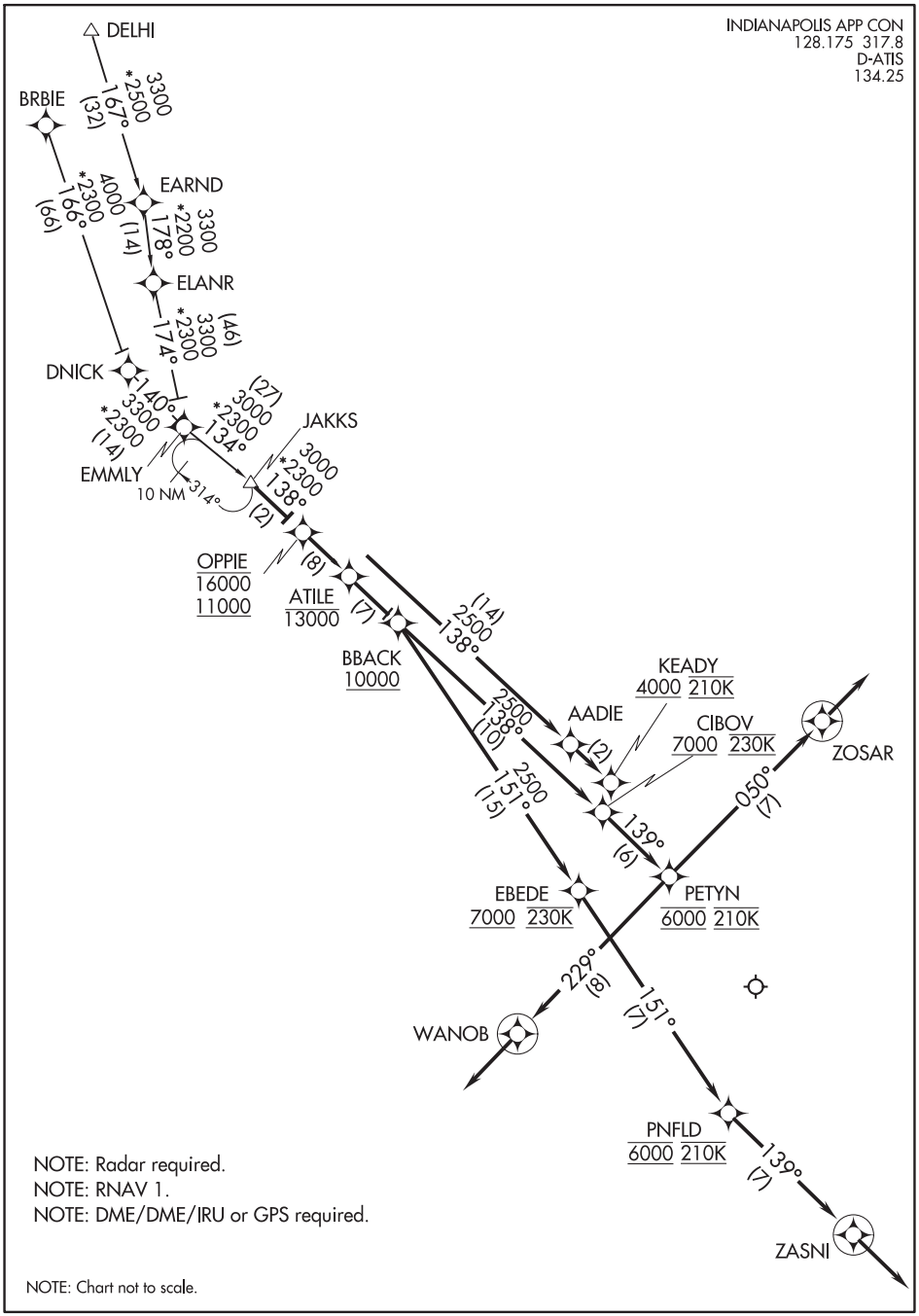
HUUVR ONE ARRIVAL (RNAV)

AKRON, OHIO

(HUUVR.HUUVR1) 24MAY18

JAKKS TWO ARRIVAL (RNAV)



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ARRIVAL ROUTE DESCRIPTION

BRBIE TRANSITION (BRBIE.JAKKS2):
DELHI TRANSITION (DELHI.JAKKS2):
ELANR TRANSITION (ELANR.JAKKS2):

From JAKKS on track 138° to cross OPPIE between 11000 and 16000, then on track 138° to cross ATILE at or below 13000.

LANDING RWY 5L/R: From ATILE on track 138° to cross BBACK at or above 10000, then on track 138° to cross CIBOV at or above 7000 and at 230K, then on track 139° to cross PETYN at 6000 and at 210K, then on track 229° to WANOB, then on track 229°. Expect radar vectors to final approach course.

LANDING RWY 14: From ATILE on track 138° to AADIE, then on track 138° to cross KEADY at or above 4000 and at 210K. Expect RNAV (RNP), RNAV (GPS) or ILS or LOC Rwy 14 or radar vectors to final approach course.

LANDING RWY 23L/R: From ATILE on track 138° to cross BBACK at or above 10000, then on track 138° to cross CIBOV at or above 7000 and at 230K, then on track 139° to cross PETYN at 6000 and at 210K, then on track 050° to ZOSAR, then on track 050°. Expect radar vectors to final approach course.

LANDING RWY 32: From ATILE on track 138° to cross BBACK at or above 10000, then on track 151° to cross EBEDE at or above 7000 and at 230K, then on track 151° to cross PNFLD at 6000 and at 210K, then on track 139° to ZASNI, then on track 139°. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment, execute ILS or LOC RWY 23R approach.

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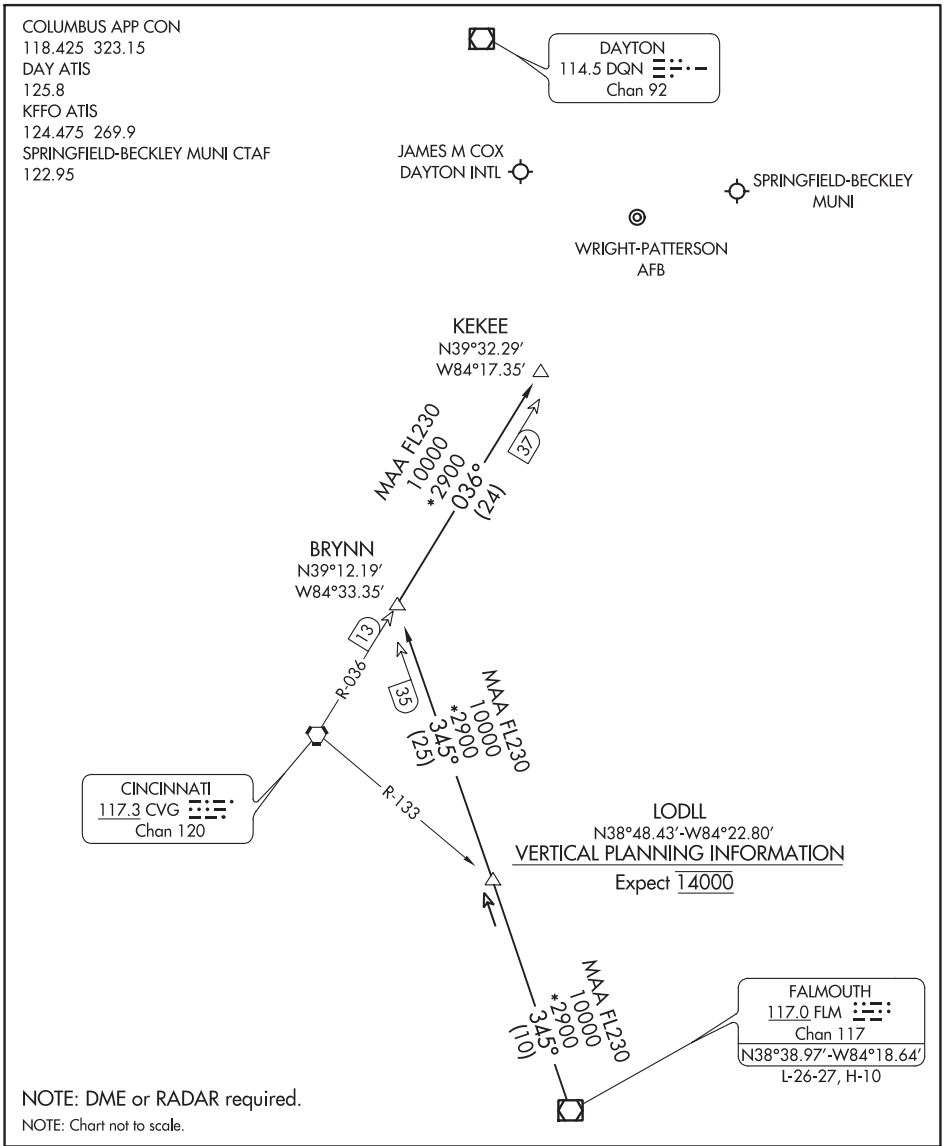

FALMOUTH TRANSITION (FLM.KEKEE4): From over FLM VOR/DME on FLM R-345 to BRYNN, then on CVG R-036 to KEKEE. Thence....

....from over KEKEE: Expect RADAR vectors to join final approach course.

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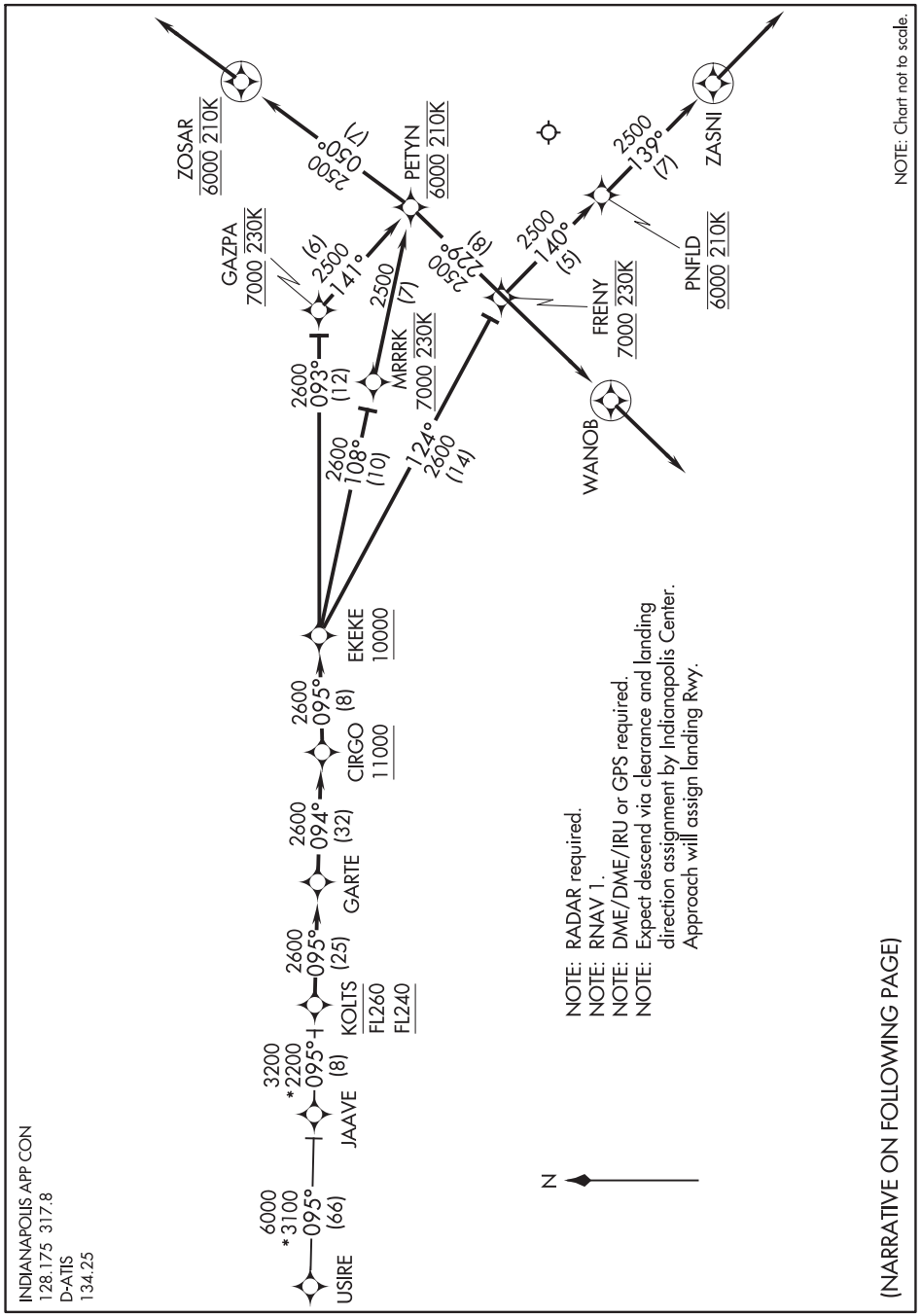
(KOLTS.KOLTS2) 17173 AL-203 (FAA)

KOLTS TWO ARRIVAL (RNAV)

INDIANAPOLIS INTL (IND)
INDIANAPOLIS, INDIANA



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KOLTS TWO ARRIVAL (RNAV)

(KOLTS.KOLTS2) 10NOV16

INDIANAPOLIS, INDIANA
INDIANAPOLIS INTL (IND)

ARRIVAL ROUTE DESCRIPTION

JAAVE TRANSITION (JAAVE.KOLTS2):
USIRE TRANSITION (USIRE.KOLTS2):

From KOLTS on track 095° to GARTE, then on track 094° to cross CIRGO at or above 11000, then on track 095° to cross EKEKE at or above 10000.

LANDING RWYS 5L/R: From EKEKE on track 093° to cross GAZPA at or above 7000 and at 230K, then on track 141° to cross PETYN at 6000 and at 210K, then on track 229° to WANOB, then on track 229°. Expect RADAR vectors to final approach course.

LANDING RWYS 23L/R: From EKEKE on track 108° to cross MRRRK at or above 7000 and at 230K, then on track 108° to cross PETYN at 6000 and at 210K, then on track 050° to cross ZOSAR at 6000 and at 210K, then on track 050°. Expect RADAR vectors to final approach course.

LANDING RWY 32: From EKEKE on track 124° to cross FRENY at or above 7000 and at 230K, then on track 140° to cross PNFLD at 6000 and at 210K, then on track 139° to ZASNI, then on track 139°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment, execute ILS or LOC Rwy 23R approach.

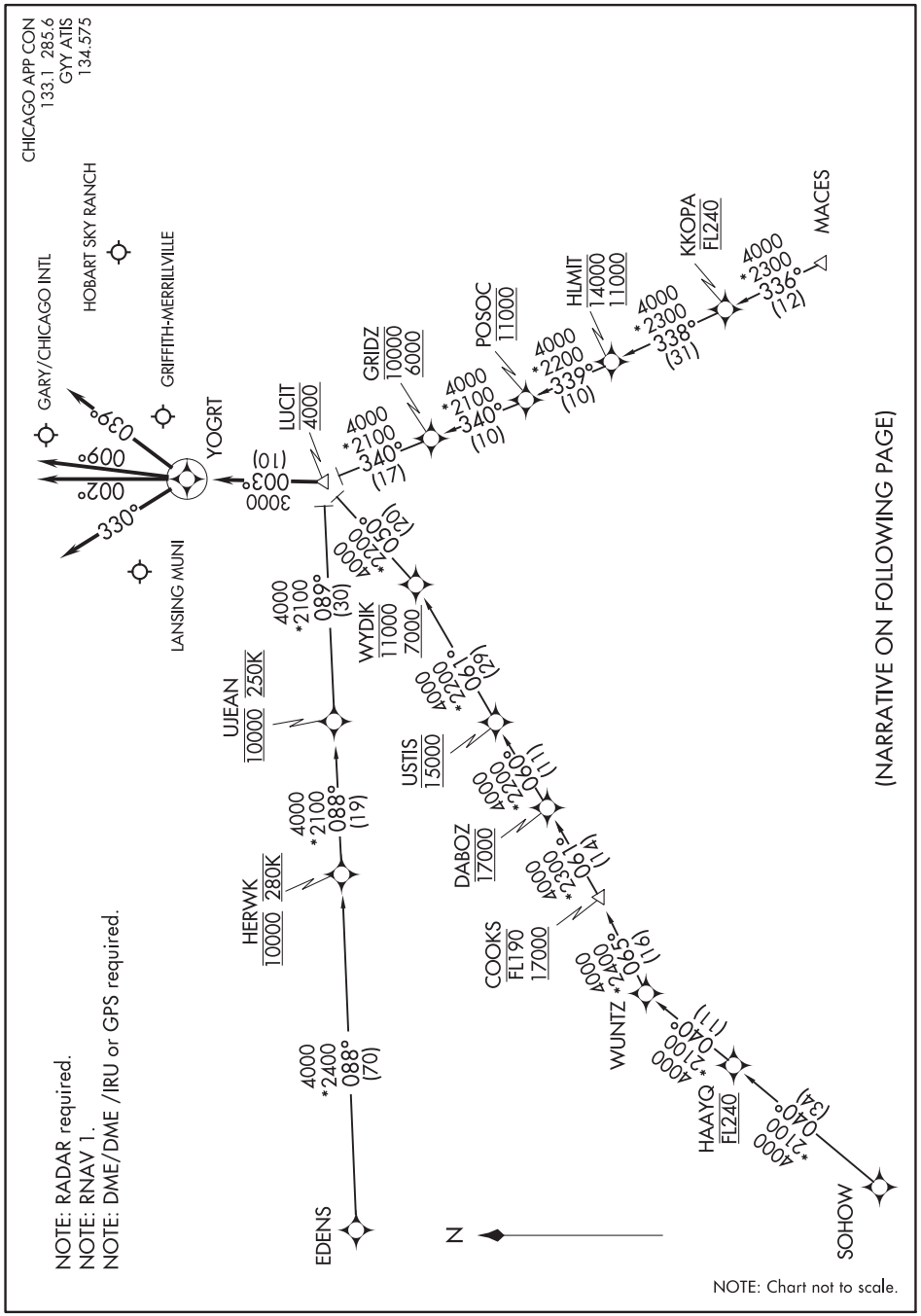
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

(LUCIT.LUCIT1) 20198

AL-748 (FAA)

LUCIT ONE ARRIVAL (RNAV)

GARY, INDIANA



EC-2, 25 FEB 2021 to 22 APR 2021

LUCIT ONE ARRIVAL (RNAV)

GARY, INDIANA

(LUCIT.LUCIT1) 21JUL16

ARRIVAL ROUTE DESCRIPTION

EDENS TRANSITION (EDENS.LUCIT1):
MACES TRANSITION (MACES.LUCIT1):
SOHOW TRANSITION (SOHOW.LUCIT1):

LANDING GRIFFITH MERRILLVILLE:
From LUCIT on track 003° to YOGRT, then on track 009°.
Expect RADAR vectors to final approach course.

LANDING HOBART SKY RANCH:
From LUCIT on track 003° to YOGRT, then on track 039°.
Expect RADAR vectors to final approach course.

LANDING GARY/CHICAGO INTL:
From LUCIT on track 003° to YOGRT, then on track 002°.
Expect RADAR vectors to final approach course.

LANDING LANSING MUNI:
From LUCIT on track 003° to YOGRT, then on track 330°.
Expect RADAR vectors to final approach course.

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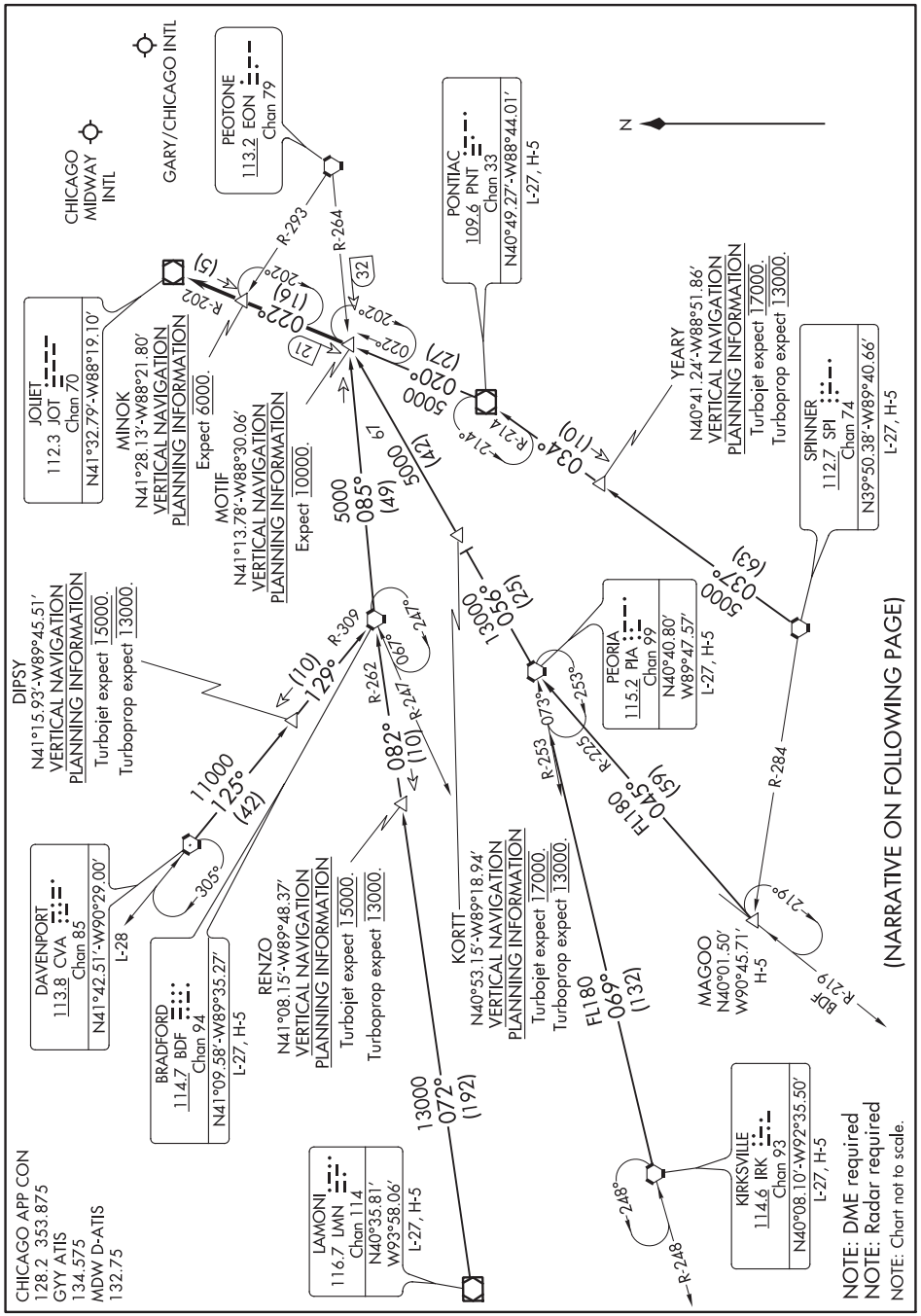
(MOTIF.MOTIF6) 20366

MOTIF SIX ARRIVAL

AL-81 (FAA)

CHICAGO, ILLINOIS



EC-2, 25 FEB 2021 to 22 APR 2021

MOTIF SIX ARRIVAL

CHICAGO, ILLINOIS

(MOTIF.MOTIF6) 29MAR18

ARRIVAL ROUTE DESCRIPTION

BRADFORD TRANSITION (BDF.MOTIF6): From over BDF VORTAC via BDF R-085 to MOTIF INT. Thence....
DAVENPORT TRANSITION (CVA.MOTIF6): From over CVA VORTAC via CVA R-125 and BDF R-309 to BDF VORTAC, then via BDF R-085 to MOTIF INT. Thence....
KIRKSVILLE TRANSITION (IRK.MOTIF6): From over IRK VORTAC via IRK R-069 and PIA R-253 to PIA VORTAC, then via PIA R-056 to MOTIF INT. Thence....
LAMONI TRANSITION (LMN.MOTIF6): From over LMN VOR/DME via LMN R-072 and BDF R-262 to BDF VORTAC, then via BDF R-085 to MOTIF INT. Thence....
MAGOO TRANSITION (MAGOO.MOTIF6): From over MAGOO INT via PIA R-225 to PIA VORTAC, then via PIA R-056 to MOTIF INT. Thence....
PEORIA TRANSITION (PIA.MOTIF6): From over PIA VORTAC via PIA R-056 to MOTIF INT. Thence....
PONTIAC TRANSITION (PNT.MOTIF6): From over PNT VOR/DME via PNT R-020 to MOTIF INT. Thence....
SPINNER TRANSITION (SPI.MOTIF6): From over SPI VORTAC via SPI R-037 and PNT R-214 to PNT VOR/DME, then via PNT R-020 to MOTIF INT. Thence....

....from over MOTIF INT via JOT R-202 to JOT VOR/DME. Expect vector to final approach course.

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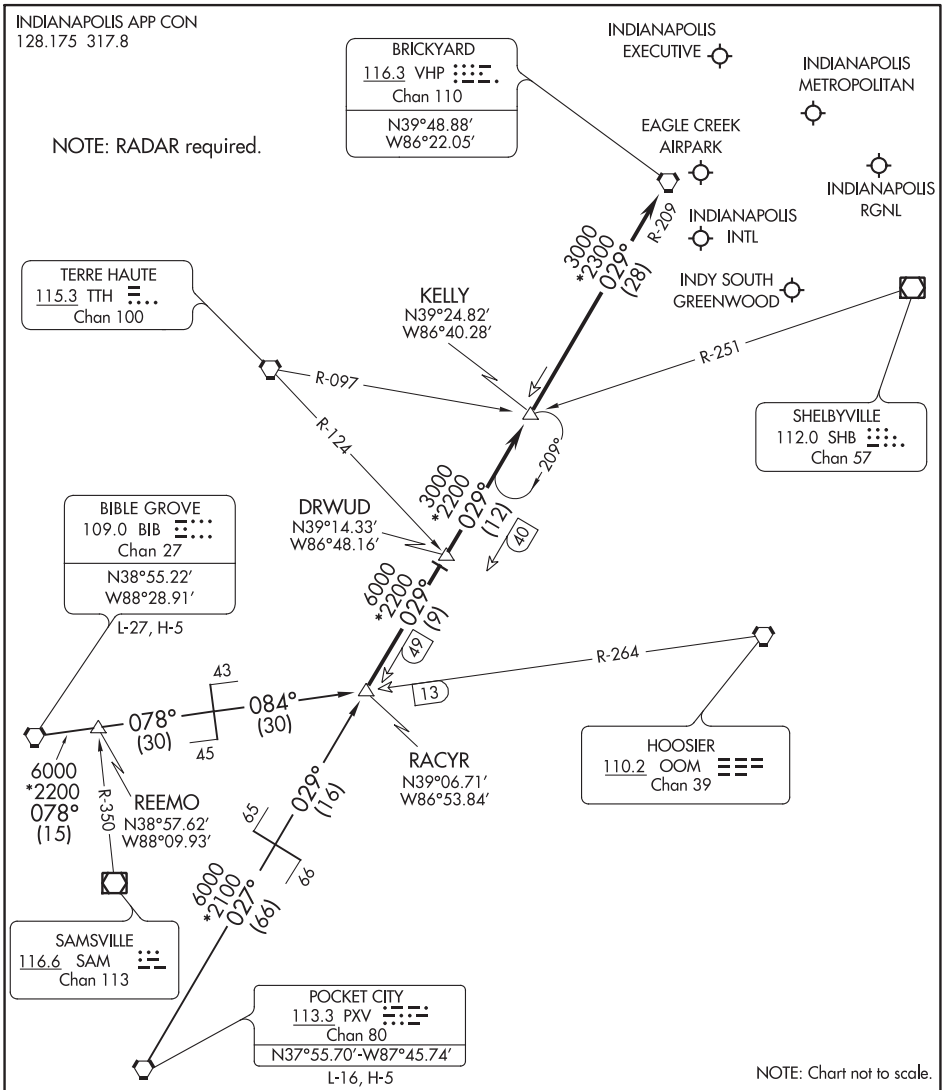
(RACYR.RACYR5) 20086

AL-203 (FAA)

RACYR FIVE ARRIVAL

INDIANAPOLIS, INDIANA



ARRIVAL ROUTE DESCRIPTION

BIBLE GROVE TRANSITION (BIB.RACYR5): From over BIB VORTAC on BIB R-078 and OOM R-264 to RACYR. Thence....

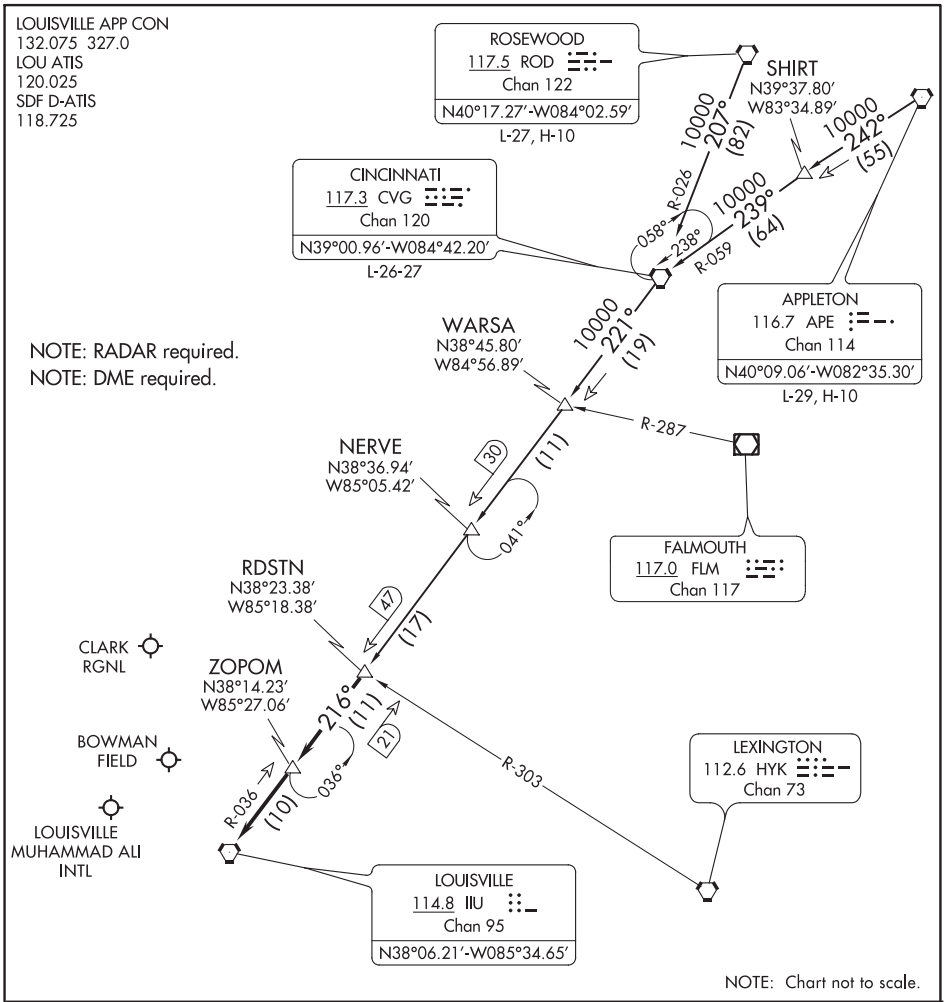
POCKET CITY TRANSITION (PXV.RACYR5): From over PXV VORTAC on PXV R-027 and VHP R-209 to RACYR. Thence....

....From over RACYR on VHP R-209 to DRWUD, then on VHP R-209 to KELLY, then on VHP R-209 to VHP VORTAC. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: Landing IND: In the event of lost communication prior to runway assignment, execute the ILS Runway 23R approach.

REDSTONE SIX ARRIVAL

LOUISVILLE, KENTUCKY



ARRIVAL ROUTE DESCRIPTION

APPLETON TRANSITION (APE.RDSTN6): From over APE VORTAC via APE R-242 and CVG R-059 to CVG VORTAC, then via CVG R-221 to RDSTN. Thence....
CINCINNATI TRANSITION (CVG.RDSTN6): From over CVG VORTAC via CVG R-221 to RDSTN. Thence....
ROSEWOOD TRANSITION (ROD.RDSTN6): From over ROD VORTAC via ROD R-207 and CVG R-026 to CVG VORTAC, then via CVG R-221 to RDSTN. Thence....

....from over RDSTN on IIU R-036 to ZOPOM, then on IIU R-036 to IIU VORTAC.
Expect radar vectors to final approach after ZOPOM.

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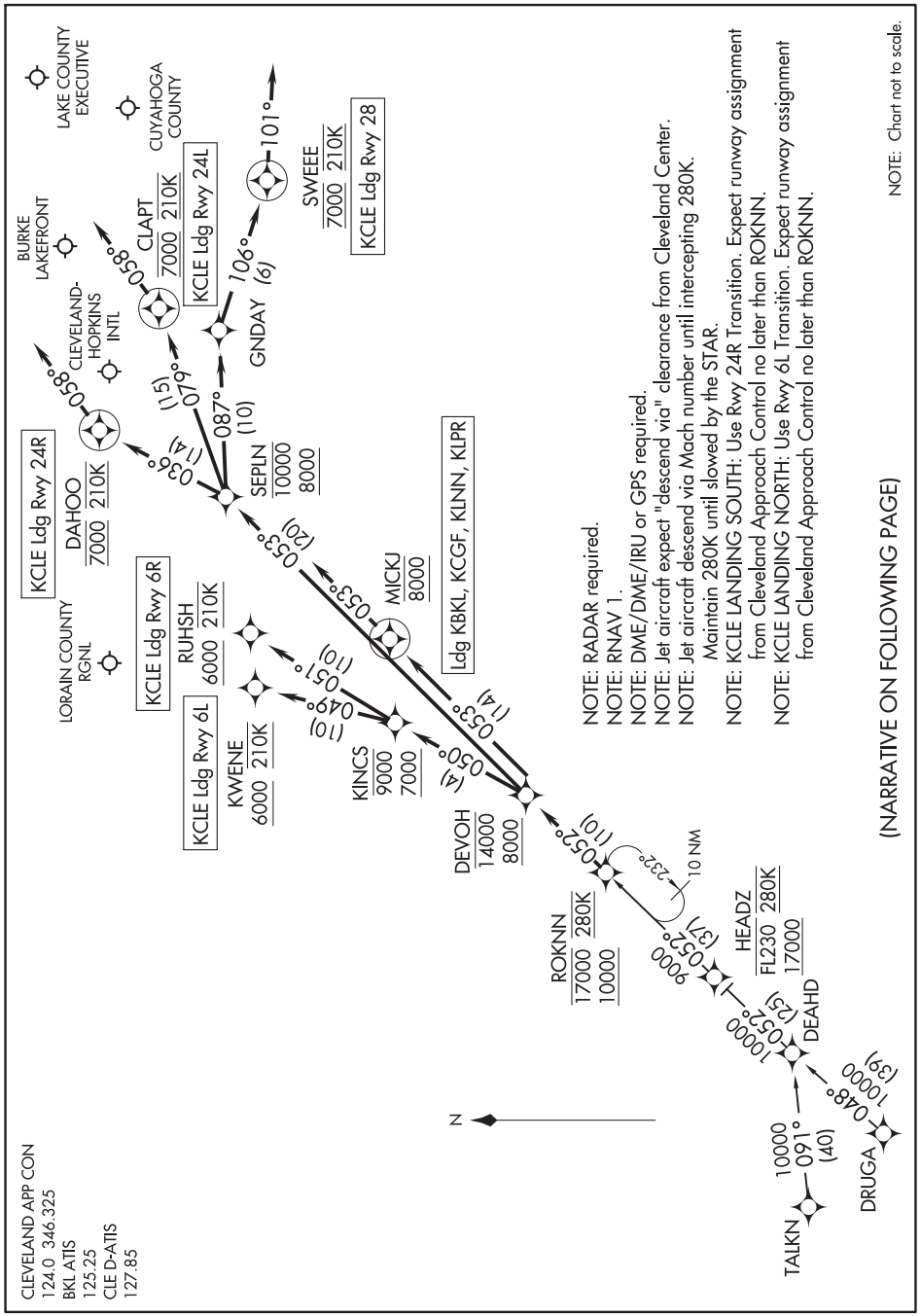
(ROKNN.ROKNN3) 20198 AL-84 (FAA)

ROKNN THREE ARRIVAL (RNAV)

CLEVELAND, OHIO



ROKNN THREE ARRIVAL (RNAV)

CLEVELAND, OHIO

(ROKNN.ROKNN3) 26MAR20

EC-2, 25 FEB 2021 to 22 APR 2021

ARRIVAL ROUTE DESCRIPTION

DRUGA TRANSITION (DRUGA.ROKNN3)
TALKN TRANSITION (TALKN.ROKNN3)

KCLE: From ROKNN on track 052° to cross DEVOH between 8000 and 14000.

LANDING KCLE RUNWAY 06L: From DEVOH on track 050° to cross KINCS between 7000 and 9000, then on track 049° to cross KWENE at or above 6000 and at 210K. Expect ILS, RNAV (RNP) or RNAV (GPS) approach from KWENE.

LANDING KCLE RUNWAY 06R: From DEVOH on track 050° to cross KINCS between 7000 and 9000, then on track 051° to cross RUHSH at or above 6000 and at 210K. Expect ILS, RNAV (RNP) or RNAV (GPS) approach from RUHSH.

LANDING KCLE RUNWAY 24L: From DEVOH on track 053° to cross SEPLN between 8000 and 10000, then on track 079° to cross CLAPT at 7000 and at 210K, then on heading 058° or as assigned by ATC. Expect RNAV (RNP) approach from CLAPT or RADAR vectors to final approach course.

LANDING KCLE RUNWAY 24R: From DEVOH on track 053° to cross SEPLN between 8000 and 10000, then on track 036° to cross DAHOO at 7000 and at 210K, then on heading 058° or as assigned by ATC. Expect RNAV (RNP) approach from DAHOO or RADAR vectors to final approach course.

LANDING KCLE RUNWAY 28: From DEVOH on track 053° to cross SEPLN between 8000 and 10000, then on track 087° to GNDAY, then on track 106° to cross SWEEE at 7000 and at 210K, then on heading 101° or as assigned by ATC. Expect RADAR vectors to final approach course.

LANDING KBKL/KLNN/KCGF/KLPR: From ROKNN on track 052° to cross DEVOH between 8000 and 14000, then on track 053° to cross MICKJ at 8000, then on track 053°. Expect RADAR vectors to final approach course.

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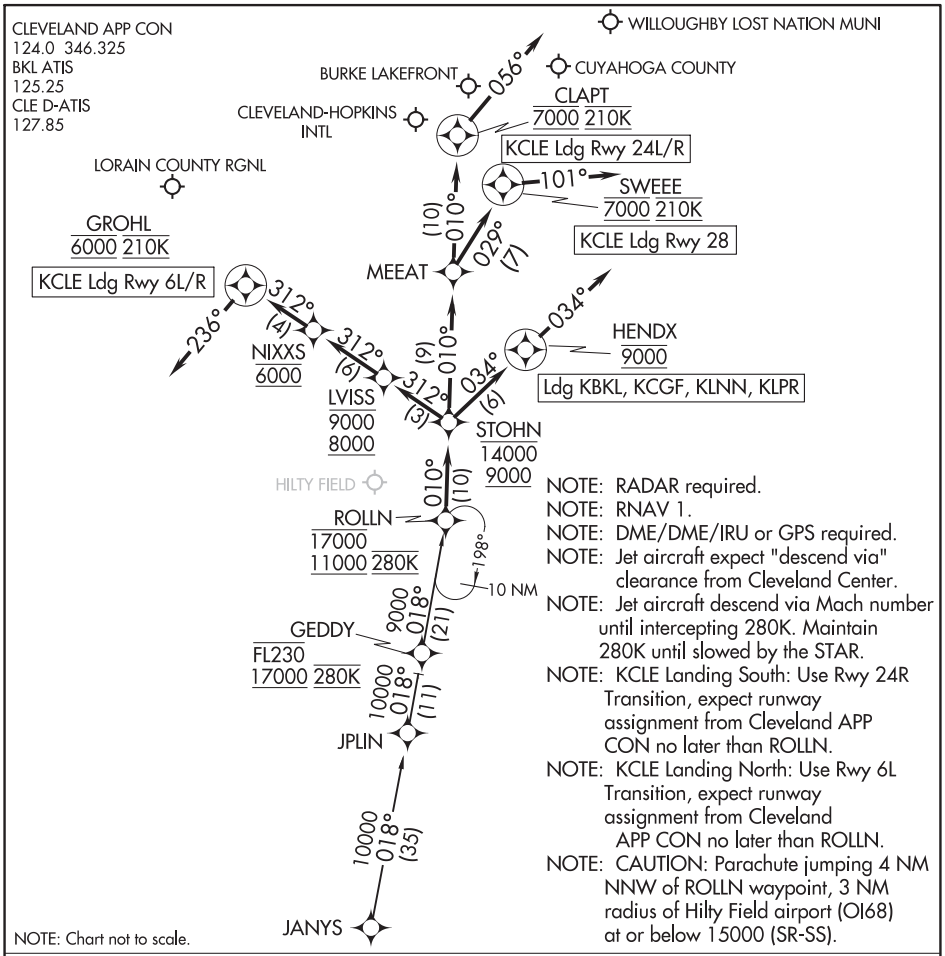
(ROLLN.ROLLN2) 20198

ROLLN TWO ARRIVAL (RNAV)

CLEVELAND, OHIO



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Jet aircraft expect "descend via" clearance from Cleveland Center.
NOTE: Jet aircraft descend via Mach number until intercepting 280K. Maintain 280K until slowed by the STAR.
NOTE: KCLE Landing South: Use Rwy 24R Transition, expect runway assignment from Cleveland APP CON no later than ROLLN.
NOTE: KCLE Landing North: Use Rwy 6L Transition, expect runway assignment from Cleveland APP CON no later than ROLLN.
NOTE: CAUTION: Parachute jumping 4 NM NNW of ROLLN waypoint, 3 NM radius of Hilty Field airport (OI68) at or below 15000 (SR-SS).

ARRIVAL ROUTE DESCRIPTION

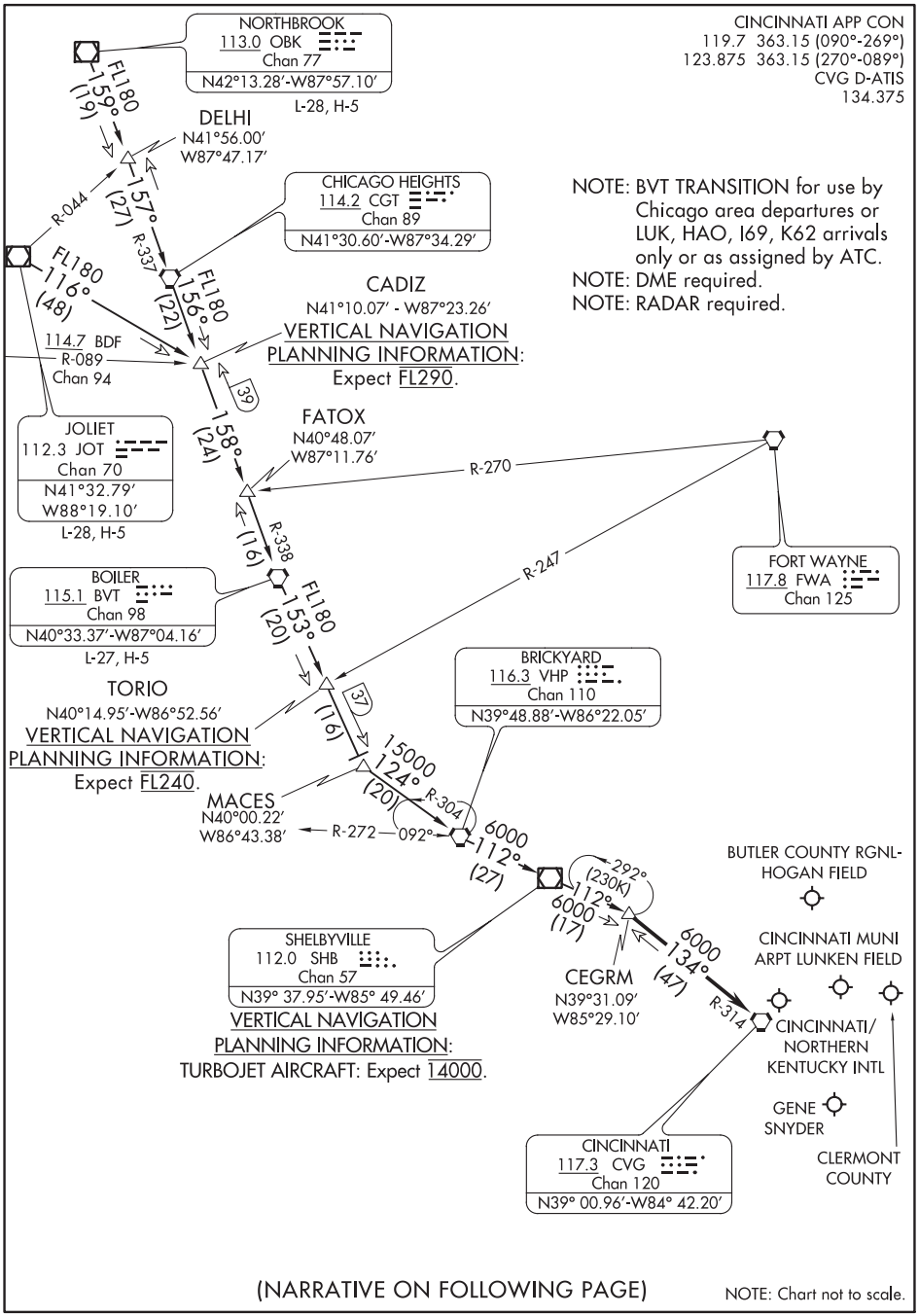
JANYS TRANSITION (JANYS.ROLLN2)

KCLE: From ROLLN on track 010° to cross STOHN between 9000 and 14000.
LANDING KCLE RUNWAYS 6L/R: From STOHN on track 312° to cross LVISS between 8000 and 9000, then on track 312° to cross NIXXS at 6000, then on track 312° to cross GROHL at 6000 and at 210K, then on heading 236° or as assigned by ATC. Expect ILS, RNAV (RNP), or RNAV (GPS) approach from GROHL, or RADAR vectors to final approach course.
LANDING KCLE RUNWAYS 24L/R: From STOHN on track 010° to MEEAT, then on track 010° to cross CLAPT at 7000 and at 210K, then on heading 056° or as assigned by ATC. Expect RNAV (RNP) approach from CLAPT or RADAR vectors to final approach course.
LANDING KCLE RUNWAY 28: From STOHN on track 010° to MEEAT, then on track 029° to cross SWEEE at 7000 and at 210K, then on heading 101° or as assigned by ATC. Expect RADAR vectors to final approach course.
LANDING KLPR/KLNN/KCGF/KBKL: From ROLLN on track 010° to cross STOHN between 9000 and 14000, then on track 034° to cross HENDX at 9000, then on track 034°. Expect RADAR vectors to final approach course.

SHELBYVILLE SIX ARRIVAL

AL-655 (FAA)

COVINGTON, KENTUCKY



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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(CEGRM.SHB6) 18088

SHELBYVILLE SIX ARRIVAL

AL-655 (FAA)

COVINGTON, KENTUCKY

ARRIVAL ROUTE DESCRIPTION

BOILER TRANSITION (BVT.SHB6): From over BVT VORTAC on BVT R-153 to MACES, then on VHP R-304 to VHP VORTAC, then on VHP R-112 to SHB VOR/DME, then on SHB R-112 to CEGRM, thence....

JOLIET TRANSITION (JOT.SHB6): From over JOT VOR/DME on JOT R-116 to CADIZ, then on BVT R-338 to BVT VORTAC, then on BVT R-153 to MACES, then on VHP R-304 to VHP VORTAC, then on VHP R-112 to SHB VOR/DME, then on SHB R-112 to CEGRM, thence....

NORTHBROOK TRANSITION (OBK.SHB6): From over OBK VOR/DME on OBK R-159 to DELHI, then on CGT R-337 to CGT VORTAC, then on CGT R-156 to CADIZ, then on BVT R-338 to BVT VORTAC, then on BVT R-153 to MACES, then on VHP R-304 to VHP VORTAC, then on VHP R-112 to SHB VOR/DME, then on SHB R-112 to CEGRM, thence....

....from over CEGRM on CVG R-314 to CVG VORTAC. Expect RADAR vectors to final approach course after CEGRM.

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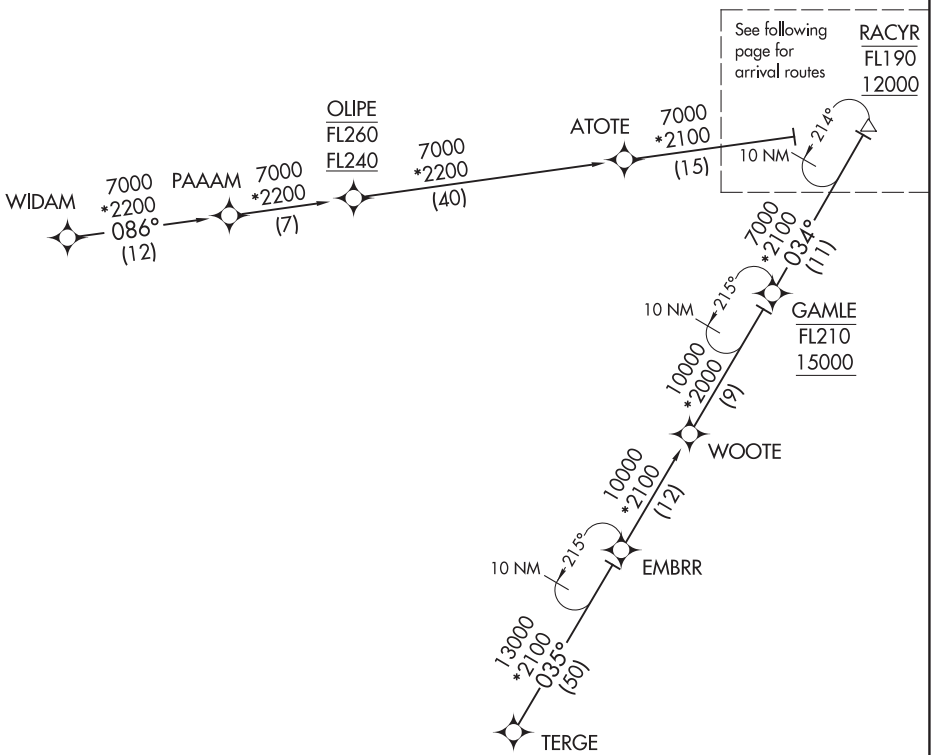
SHELBYVILLE SIX ARRIVAL

COVINGTON, KENTUCKY

SMUKE TWO ARRIVAL (RNAV) Transition Routes

INDIANAPOLIS APP CON
128.175 317.8
D-ATIS
134.25



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect descend via clearance and landing direction assignment by Indianapolis Center. Approach will assign landing Rwy.
NOTE: For non-GPS equipped aircraft landing Rwy 23L; SHB DME must be operational.
NOTE: For non-GPS equpped aircraft landing Rwy 23R; SHB and VHP DMEs must be operational.

(CONTINUED ON FOLLOWING PAGE)

EMBRR TRANSITION (EMBRR.SMUKE2):
TERGE TRANSITION (TERGE.SMUKE2):
WIDAM TRANSITION (WIDAM.SMUKE2):

NOTE: Chart not to acale.

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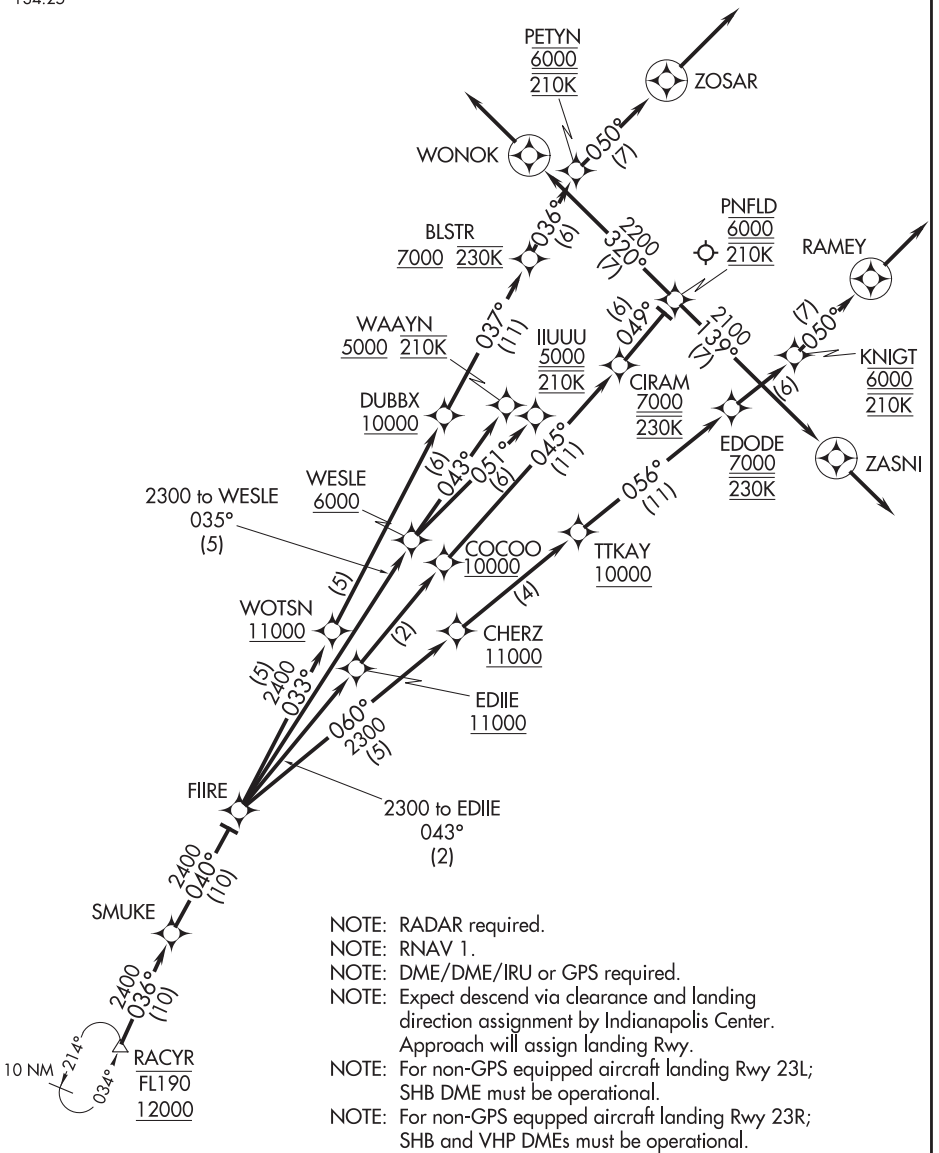
(RACYR.SMUKE2) 17173 AL-203 (FAA)

SMUKE TWO ARRIVAL (RNAV) Arrival Routes

INDIANAPOLIS INTL (IND)
INDIANAPOLIS, INDIANA

INDIANAPOLIS APP CON
128.175 317.8
D-ATIS
134.25



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Expect descend via clearance and landing direction assignment by Indianapolis Center. Approach will assign landing Rwy.
NOTE: For non-GPS equipped aircraft landing Rwy 23L; SHB DME must be operational.
NOTE: For non-GPS equpped aircraft landing Rwy 23R; SHB and VHP DMEs must be operational.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to acale.

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ARRIVAL ROUTE DESCRIPTION

From RACYR on track 036° to SMUKE, then on track 040° to FIIRE.

LANDING RWY 5L: From FIIRE on track 035° to cross WESLE at or above 6000, then on track 043° to cross WAAYN at or above 5000 and at 210K. Expect RNAV (RNP), RNAV (GPS) or ILS or LOC RWY 5L or radar vectors to final approach course.

LANDING RWY 5R: From FIIRE on track 035° to cross WESLE at or above 6000, then on track 051° to cross IIUUU at or above 5000 and at 210K. Expect RNAV (RNP), RNAV (GPS) or ILS or LOC RWY 5R or radar vectors to final approach course.

LANDING RWY 14: From FIIRE on track 043° to cross EDIIE at or above 11000, then on track 043° to cross COCOO at or above 10000, then on track 045° to cross CIRAM at or above 7000 and at 230K, then on track 049° to cross PNFLD at 6000 and at 210K, then on track 320° to WONOK, then on track 320°. Expect radar vectors to final approach course.

LANDING RWY 23L: From FIIRE on track 060° to cross CHERZ at or above 11000, then on track 060° to cross TTKAY at or above 10000, then on track 056° to cross EDODE at or above 7000 and at 230K, then on track 056° to cross KNIGT at 6000 and at 210K, then on track 050° to RAMEY, then on track 050°. Expect radar vectors to final approach course.

LANDING RWY 23R: From FIIRE on track 033° to cross WOTSN at or above 11000, then on track 033° to cross DUBBX at or above 10000, then on track 037° to cross BLSTR at or above 7000 and at 230K, then on track 036° to cross PETYN at 6000 and at 210K, then on track 050° to ZOSAR, then on track 050°. Expect radar vectors to final approach course.

LANDING RWY 32: From FIIRE on track 043° to cross EDIIE at or above 11000, then on track 043° to cross COCOO at or above 10000, then on track 045° to cross CIRAM at or above 7000 and at 230K, then on track 049° to cross PNFLD at 6000 and at 210K, then on track 139° to ZASNI, then on track 139°. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: In the event of lost communication prior to runway assignment, execute ILS or LOC Rwy 23R approach.

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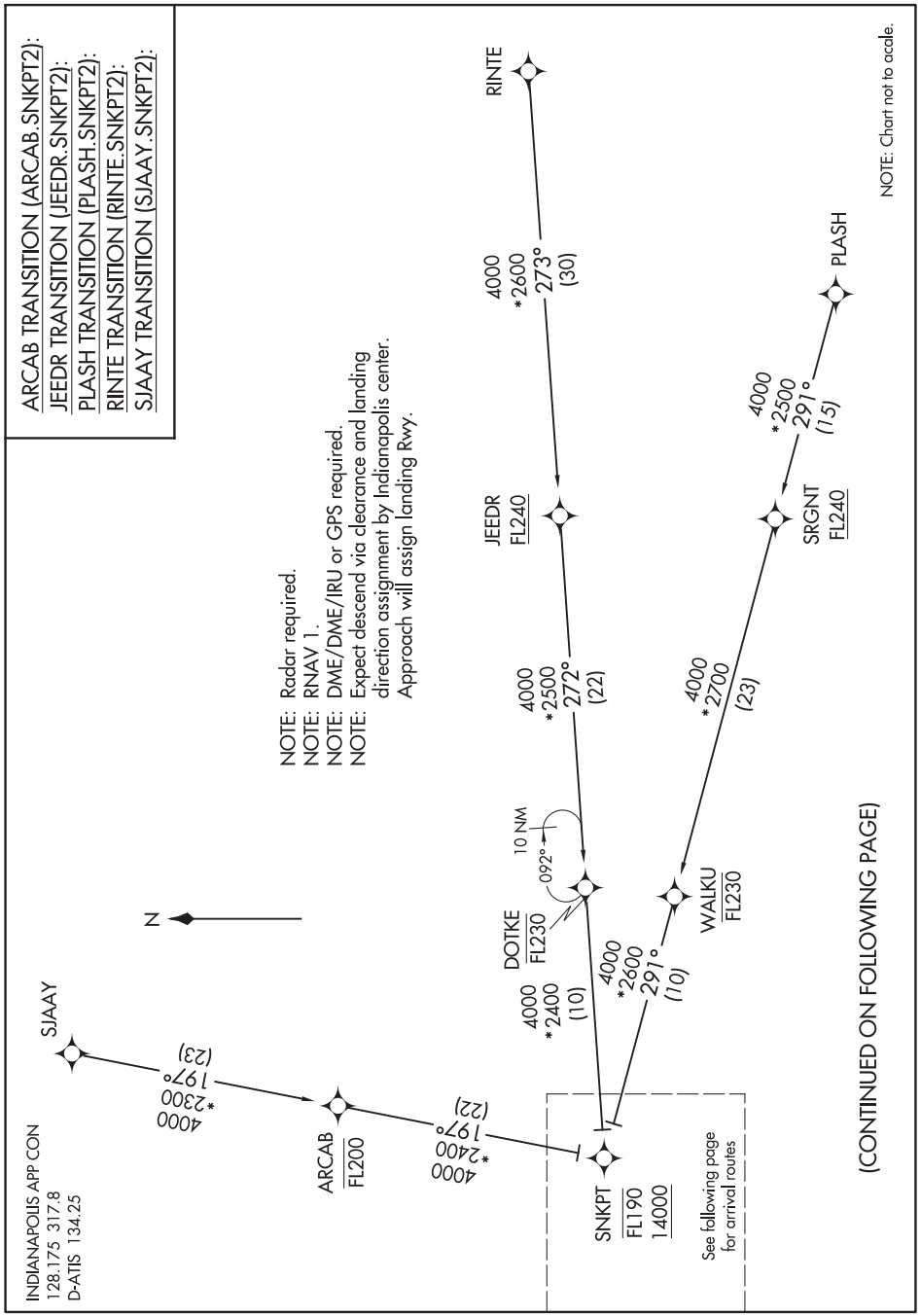
(SNKPT.SNKPT2) 20338 AL-203 (FAA)

SNKPT TWO ARRIVAL (RNAV) Transition Routes

INDIANAPOLIS INTL (IND)
INDIANAPOLIS, INDIANA



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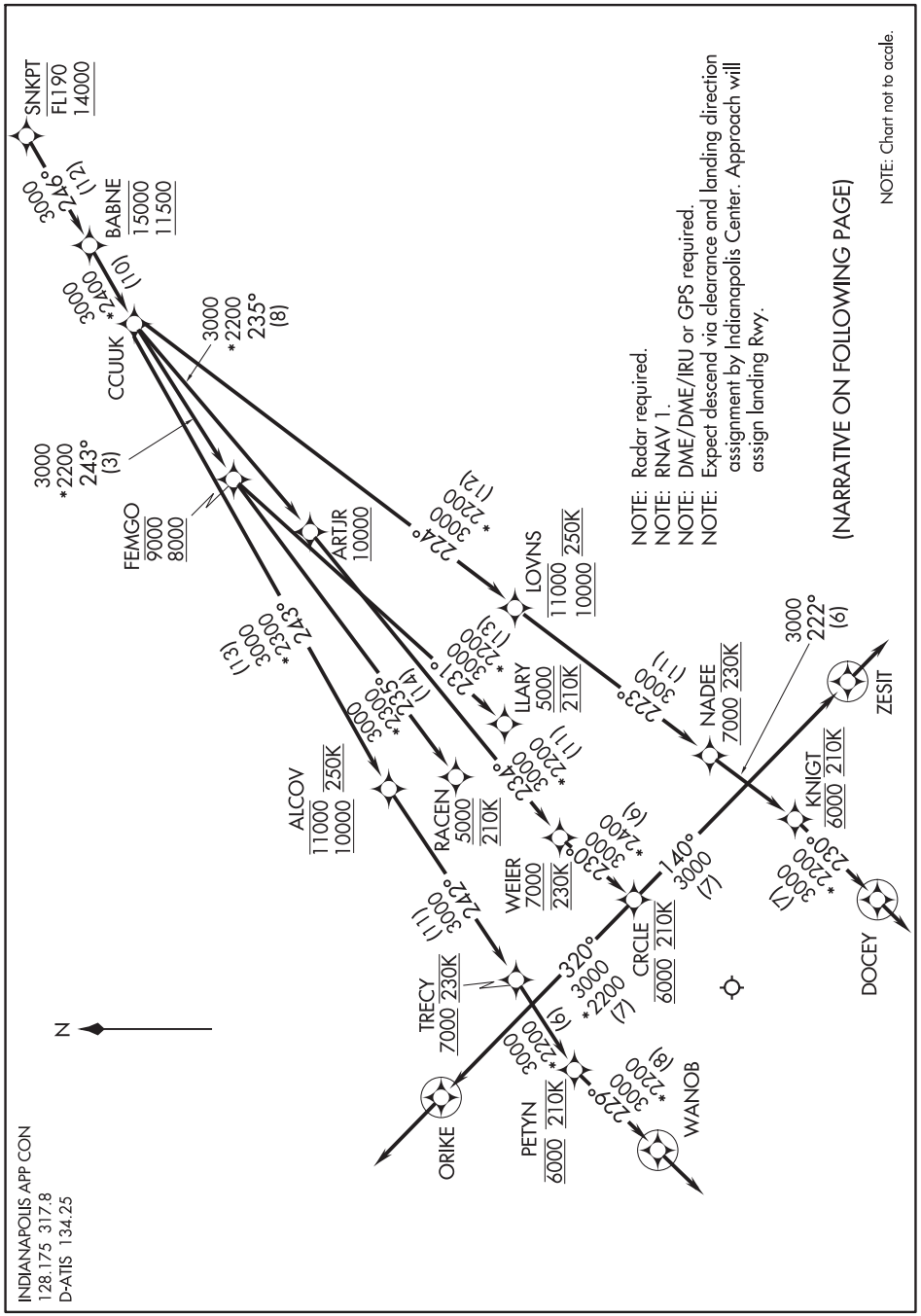
SNKPT TWO ARRIVAL (RNAV) Transition Routes

(SNKPT.SNKPT2) 10NOV16

INDIANAPOLIS, INDIANA
INDIANAPOLIS INTL (IND)

SNKPT TWO ARRIVAL (RNAV) Arrival Routes



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SNKPT TWO ARRIVAL (RNAV) Arrival Routes
(SNKPT.SNKPT2) 10NOV16
INDIANAPOLIS, INDIANA
INDIANAPOLIS INTL (IND)

ARRIVAL ROUTE DESCRIPTION

From SNKPT on track 246° to cross BABNE between 11500 and 15000, then on track 246° to CCUUK.

LANDING RWY 5L: From CCUUK on track 243° to cross ALCOV between 10000 and 11000 and at 250K, then on track 242° to cross TRECY at/above 7000 and at 230K, then on track 242° to cross PETYN at 6000 and at 210K, then on track 229° to WANOB, then on track 229°. Expect radar vectors to final approach course.

LANDING RWY 5R: From CCUUK on track 224° to cross LOVNS between 10000 and 11000 and at 250K, then on track 223° to cross NADEE at/above 7000 and at 230K, then on track 222° to cross KNIGT at 6000 and at 210K, then on track 230° to DOCEY, then on track 230°. Expect radar vectors to final approach course.

LANDING RWY 14: From CCUUK on track 235° to cross ARTJR at/above 10000, then on track 234° to cross WEIER at/above 7000 and at 230K then on track 230° to cross CRCLE at 6000 and at 210K, then on track 320° to ORIKE, then on track 320°. Expect radar vectors to final approach course.

LANDING RWY 23L: From CCUUK on track 243° to cross FEMGO between 8000 and 9000, then on track 231° to cross LLARY at/above 5000 and at 210K. Expect RNAV (RNP), RNAV (GPS) or ILS or LOC to Rwy 23L or radar vectors to final approach course.

LANDING RWY 23R: From CCUUK on track 243° to cross FEMGO between 8000 and 9000, then on track 235° to cross RACEN at/above 5000 and at 210K. Expect RNAV (RNP), RNAV (GPS) or ILS or LOC to Rwy 23R or radar vectors to final approach course.

LANDING RWY 32: From CCUUK on track 235° to cross ARTJR at/above 10000, then on track 234° to cross WEIER at/above 7000 and at 230K then on track 230° to cross CRCLE at 6000 and at 210K, then on track 140° to ZESIT, then on track 140°. Expect radar vectors to final approach course.

LOST COMMUNICATION:
In the event of lost communication prior to runway assignment, execute ILS or LOC Rwy 23R approach.

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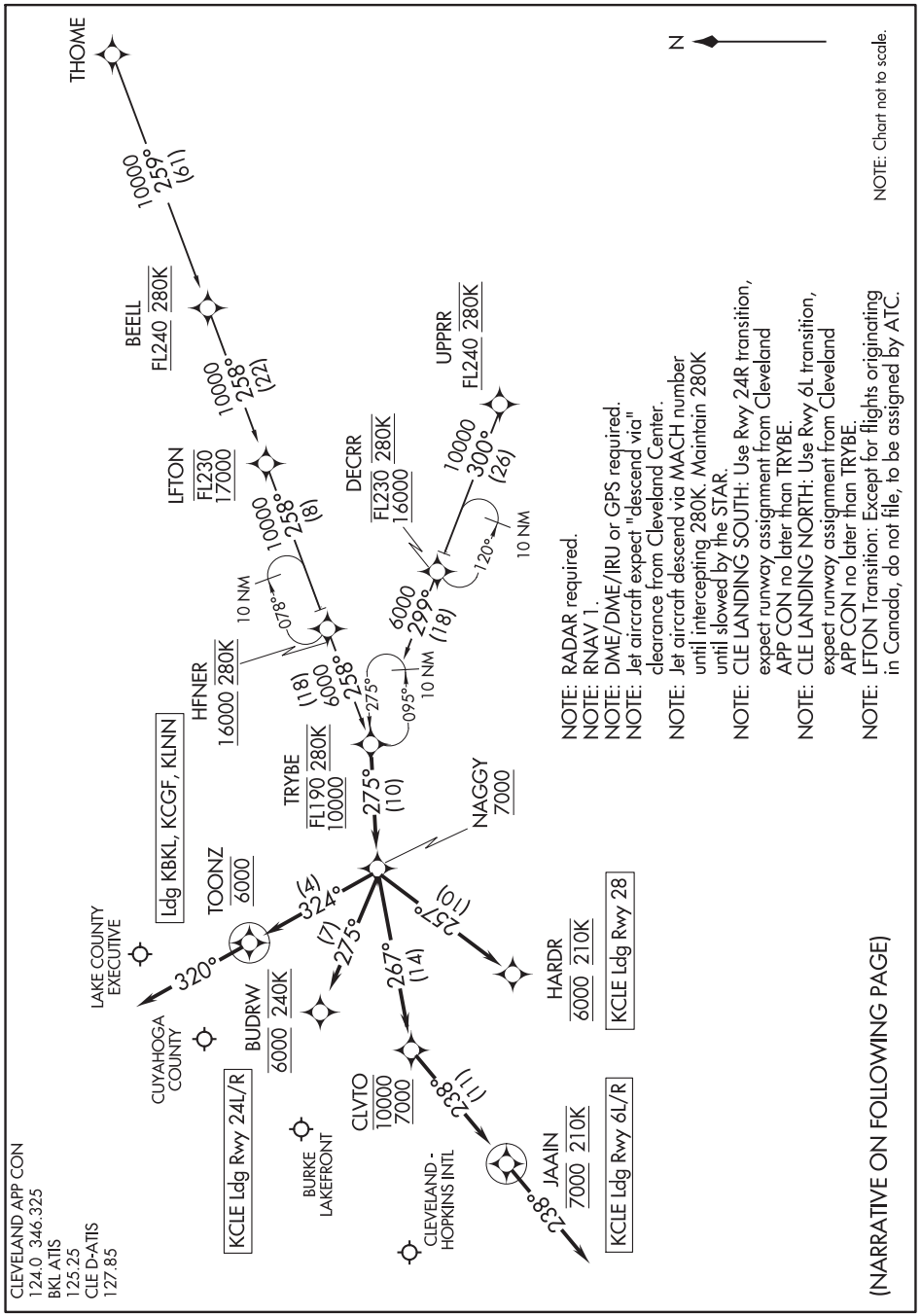
TRYBE FOUR ARRIVAL (RNAV)

CLEVELAND, OHIO



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ARRIVAL ROUTE DESCRIPTION

LFTON TRANSITION (LFTON.TRYBE4)
THOME TRANSITION (THOME.TRYBE4)
UPPRR TRANSITION (UPPRR.TRYBE4)

KCLE: From TRYBE on track 275° to cross NAGGY at or above 7000.

LANDING KCLE RUNWAYS 6R/L: From NAGGY on track 267° to cross CLVTO between 7000 and 10000, then on track 238° to cross JAAIN at 7000 and at 210K, then on heading 238° or as assigned by ATC. Expect RNAV (RNP) approach from JAAIN or RADAR vectors to final approach course.

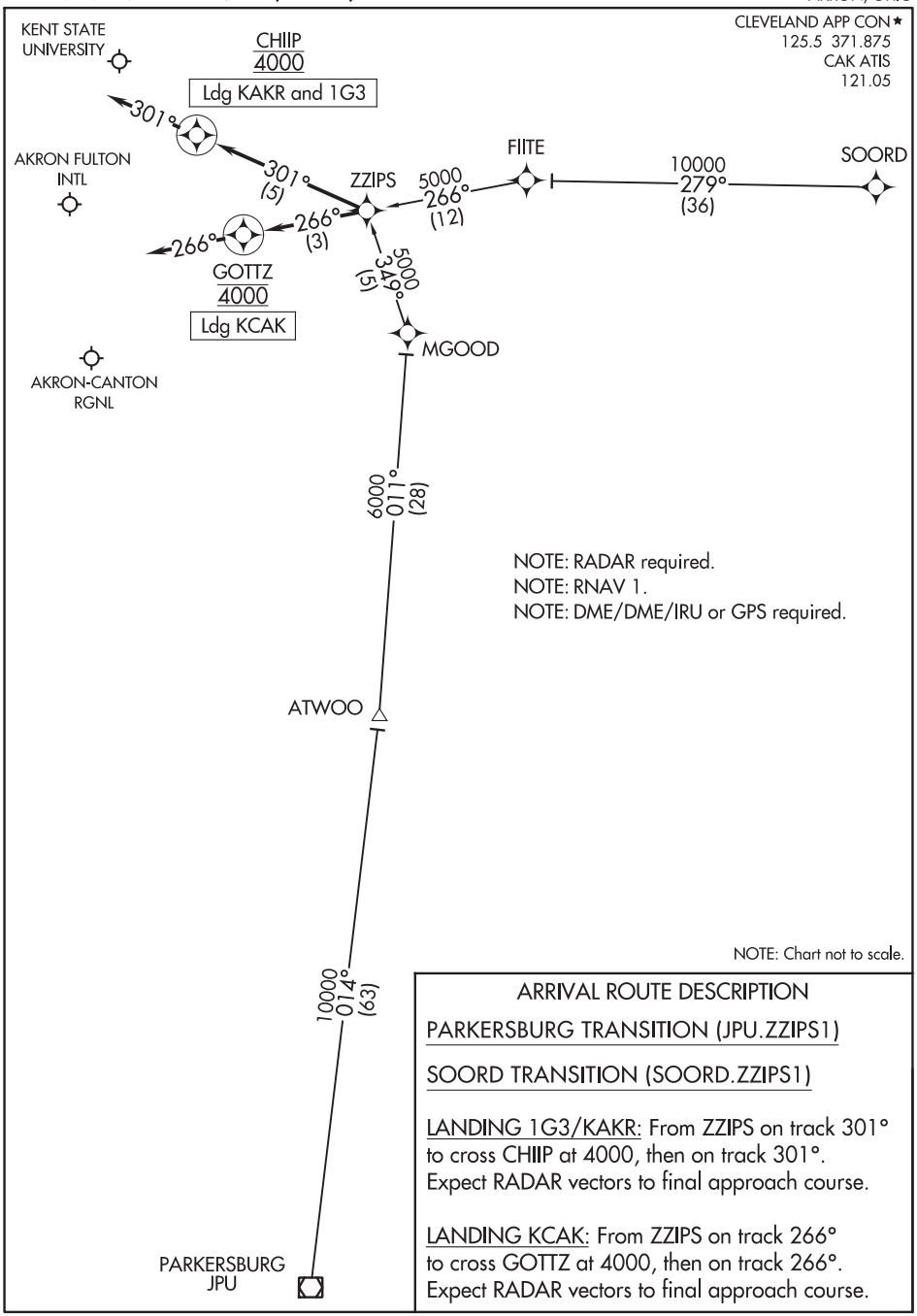
LANDING KCLE RUNWAYS 24L/R: From NAGGY on track 275° to cross BUDRW at 6000 and at 240K. Expect ILS, RNAV (RNP), or RNAV (GPS) approach from BUDRW.

LANDING KCLE RUNWAY 28: From NAGGY on track 257° to cross HARDR at 6000 and at 210K. Expect ILS, RNAV (RNP), or RNAV (GPS) approach from HARDR .

LANDING KBKL/KLNN/KCGF: From TRYBE on track 275° to cross NAGGY at or above 7000 then on track 324° to cross TOONZ at 6000, then on track 320°. Expect RADAR vectors to final approach course.

ZZIPS ONE ARRIVAL (RNAV)

AKRON, OHIO



ARRIVAL ROUTE DESCRIPTION

PARKERSBURG TRANSITION (JPU.ZZIPS1)

SOORD TRANSITION (SOORD.ZZIPS1)

LANDING 1G3/KAKR: From ZZIPS on track 301° to cross CHIIP at 4000, then on track 301°. Expect RADAR vectors to final approach course.

LANDING KCAK: From ZZIPS on track 266° to cross GOTTZ at 4000, then on track 266°. Expect RADAR vectors to final approach course.

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INTENTIONALLY

LEFT

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EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 25
AKRON FULTON INTL (AKR)

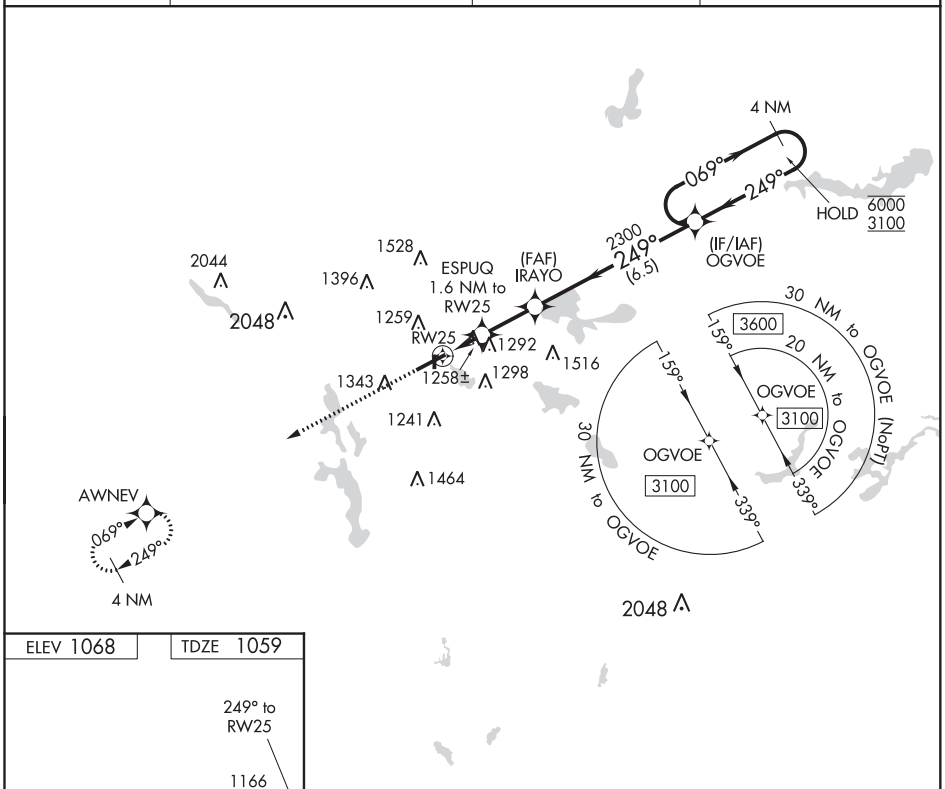
WAAS CH 99735 W25A	APP CRS 249°	Rwy ldg 6077 TDZE 1059 Apt Elev 1068

RNP APCH.

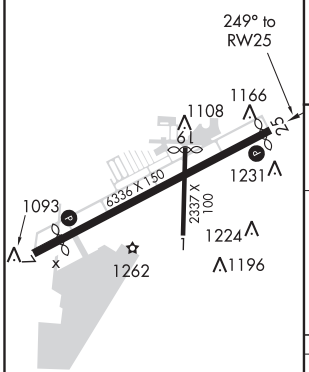
Rwy 25 helicopter visibility reduction below 1 SM NA.

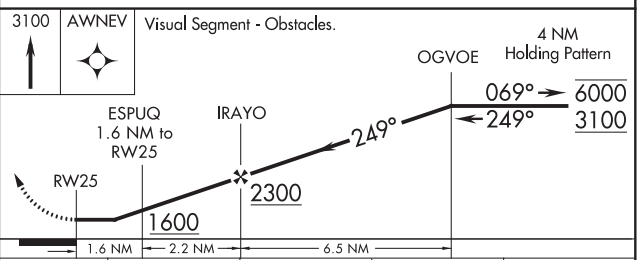
MISSED APPROACH: Climb to 3100 direct AWNEV and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
126.825	118.6 371.875	121.6	123.075 (CTAF) L



ELEV 1068 TDZE 1059





CATEGORY	A	B	C	D
LP MDA	1520-1 461 (500-1)		1520-1⅜ 461 (500-1⅜)	
LNAV MDA	1560-1 501 (500-1)		1560-1⅜ 501 (500-1⅜)	
C CIRCLING	1600-1 532 (600-1)	1680-1 612 (700-1)	1800-2 732 (800-2)	1840-2½ 772 (800-2½)

REIL Rwys 7 and 25 L
MIRL Rwy 1-19 L
HIRL Rwy 7-25 L

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AKRON, OHIO | AL-6 (FAA) | 20198

LOC RWY 25
AKRON FULTON INTL (AKR)

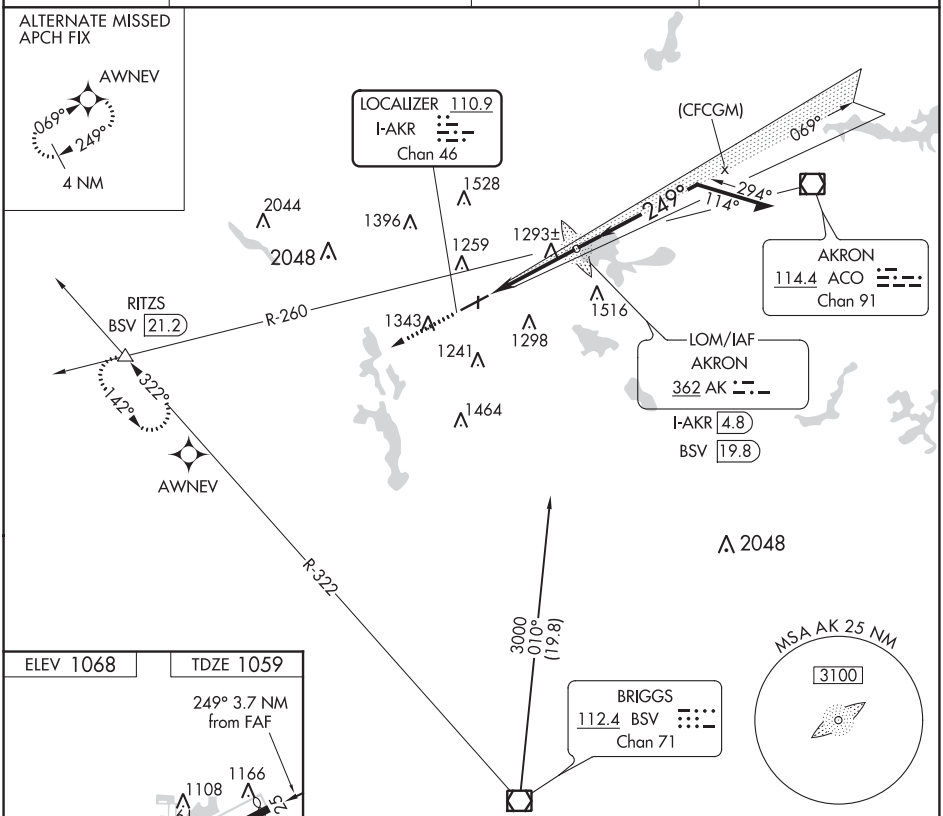
LOC/DME I-AKR	APP CRS	Rwy ldg	6077
110.9	249°	TDZE	1059
Chan 46		Apt Elev	1068

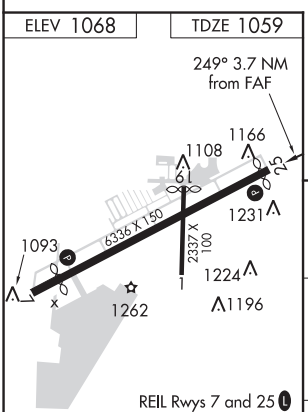
ADF or DME or RADAR required for procedure entry.

Rwy 25 helicopter visibility reduction below 1 SM NA.

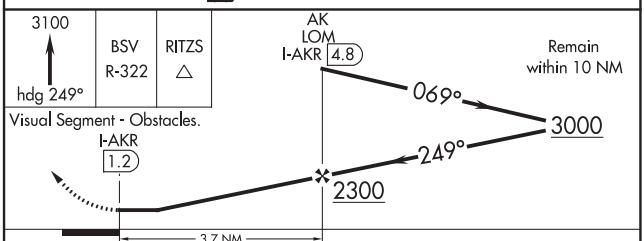
MISSED APPROACH: Climb to 3100 on heading 249° and BSV VOR/DME R-322 to RITZS INT/BSV 21.2 DME and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
126.825	118.6 371.875	121.6	123.075 (CTAF) L





FAF to MAP 3.7 NM					
Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14



CATEGORY	A	B	C	D
S-LOC 25	1560-1 501 (500-1)		1560-1⅜ 501 (500-1⅜)	
C CIRCLING	1600-1 532 (600-1)	1680-1 612 (700-1)	1800-2 732 (800-2)	1840-2½ 772 (800-2½)

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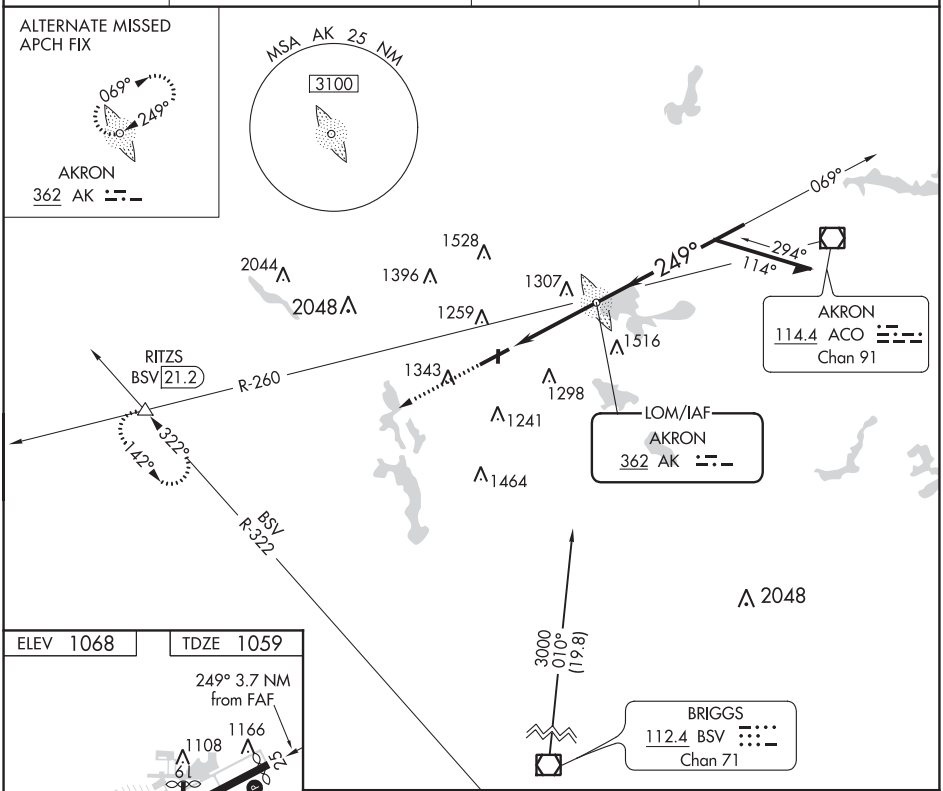
NDB RWY 25
AKRON FULTON INTL (AKR)

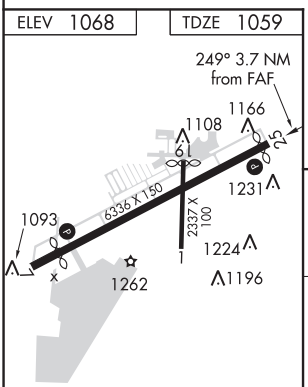
LOM AK	APP CRS	Rwy ldg	6077
362	249°	TDZE	1059
		Apt Elev	1068

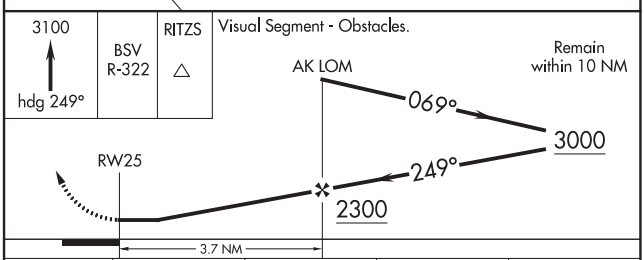
Rwy 25 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3100 on heading 249° and BSV VOR/DME R-322 to RITZS INT/BSV 21.2 DME and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
126.825	118.6 371.875	121.6	123.075 (CTAF) L







REIL Rwys 7 and 25 L
MIRL Rwy 1-19 L
HIRL Rwy 7-25 L

FAF to MAP 3.7 NM					
Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14

CATEGORY	A	B	C	D
S-25	1620-1 561 (600-1)		1620-1⅝ 561 (600-1⅝)	
C CIRCLING	1620-1 552 (600-1)	1680-1 612 (700-1)	1800-2 732 (800-2)	1840-2½ 772 (800-2½)

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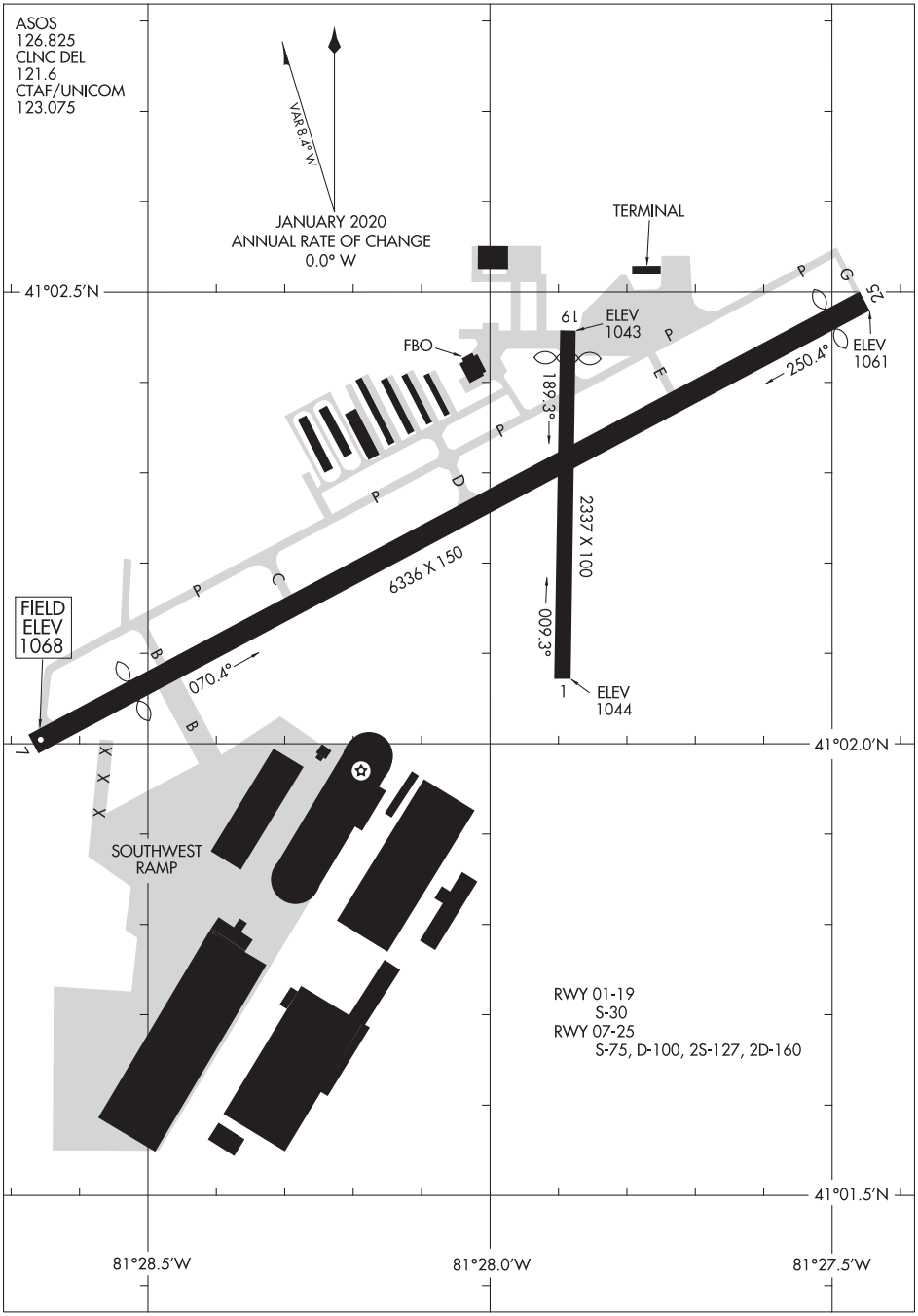
20086

AIRPORT DIAGRAM

AKRON FULTON INTL (AKR)
AKRON,OHIO

AL-6 (FAA)



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AIRPORT DIAGRAM
20086
AKRON,OHIO
AKRON FULTON INTL (AKR)

LOC I-CAK	APP CRS	Rwy ldg	7007
109.5	009°	TDZE	1209
		Apt Elev	1226

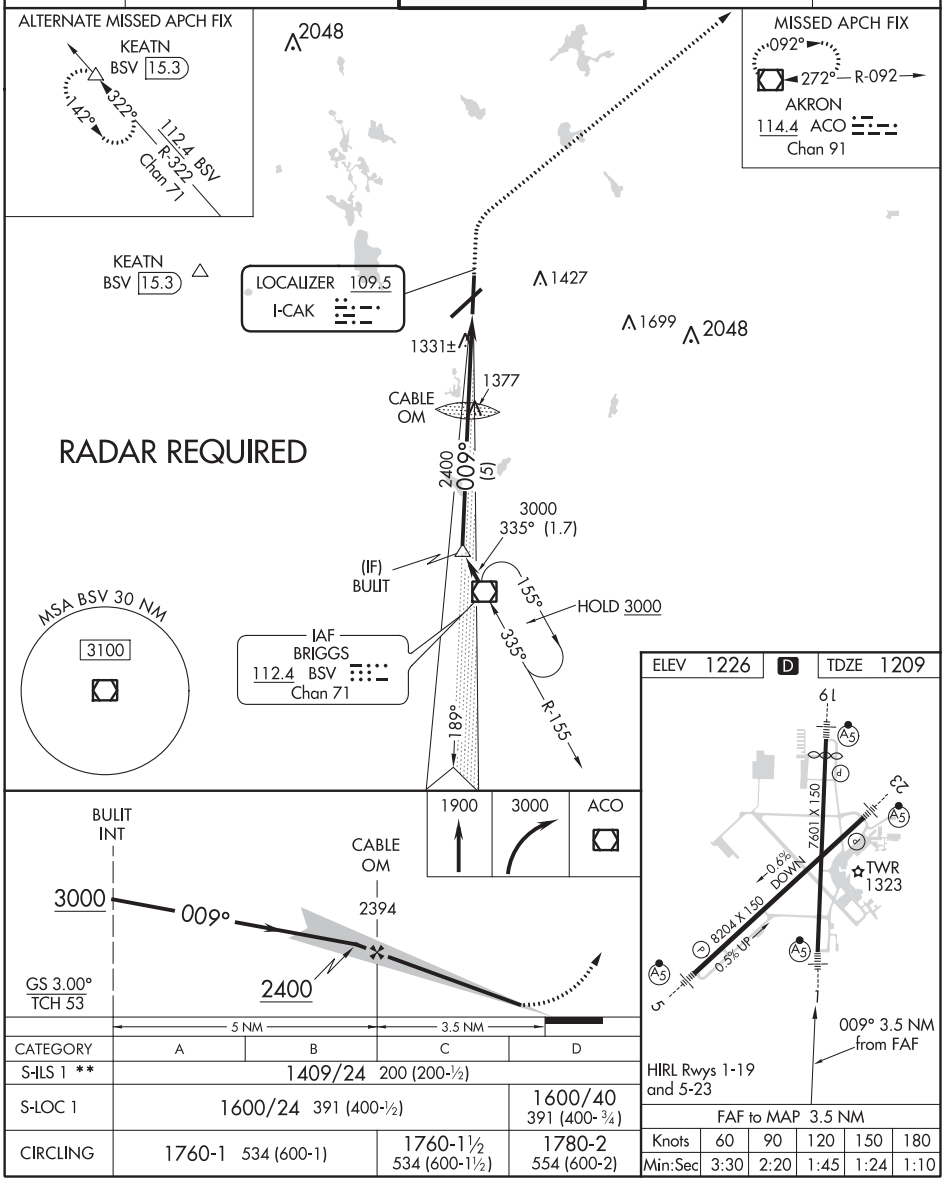
ILS or LOC RWY 1
AKRON-CANTON RGNL (CAK)

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

MALSR A5

MISSED APPROACH: Climb to 1900 then climbing right turn to 3000 direct ACO VOR/DME and hold.

ATIS	CLEVELAND APP CON*	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05



CATEGORY	A	B	C	D
S-ILS 1 **	1409/24 200 (200-½)			
S-LOC 1	1600/24 391 (400-½)			1600/40 391 (400-¾)
CIRCLING	1760-1 534 (600-1)		1760-1½ 534 (600-1½)	1780-2 554 (600-2)

FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10

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ILS or LOC RWY 5
AKRON-CANTON RGNL (CAK)

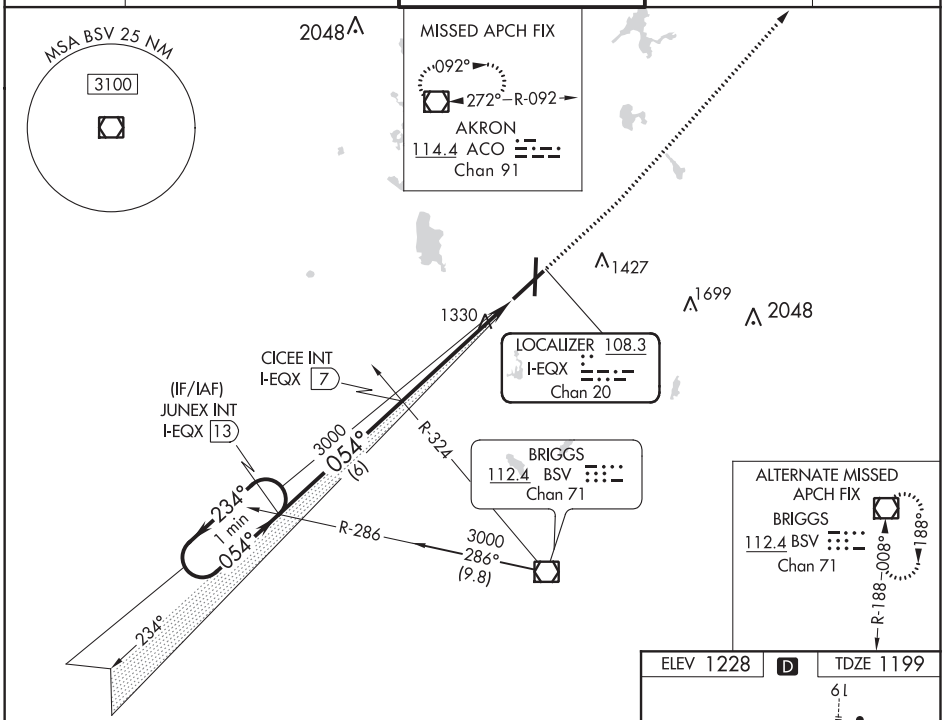
LOC/DME I-EQX	APP CRS	Rwy ldg	8204
108.3	054°	TDZE	1199
Chan 20		Apt Elev	1228

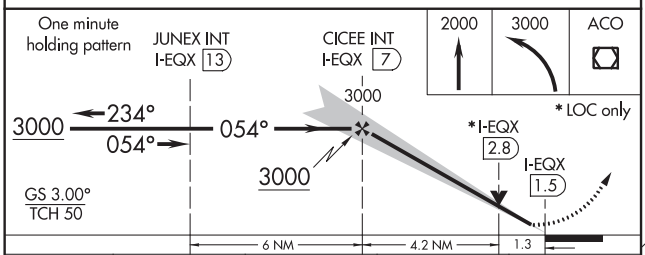
T **RVR 1800 authorized with use of FD or AP or HUD to DA.

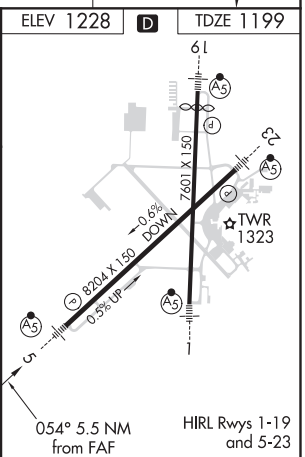
MALSR A5

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct ACO VOR/DME and hold.

ATIS	CLEVELAND APP CON *	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05







CATEGORY	A	B	C	D
S-ILS 5	**1399/24 200 (200-½)			
S-LOC 5	1640/24 441 (500-½)		1640/45 441 (500-⅞)	
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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ILS or LOC RWY 19
AKRON-CANTON RGNL (CAK)

LOC I-RGO	APP CRS	Rwy ldg / TDZE / Apt Elev
109.5	189°	7000 / 1218 / 1226

** RVR 1800 authorized with the use of FD or AP or HUD to DA. For inoperative ALS, increase CAT C/D visibility to RVR 6000. ZEVLO fix minimums: For inoperative ALS, increase Cat C/D visibility to RVR 5500.

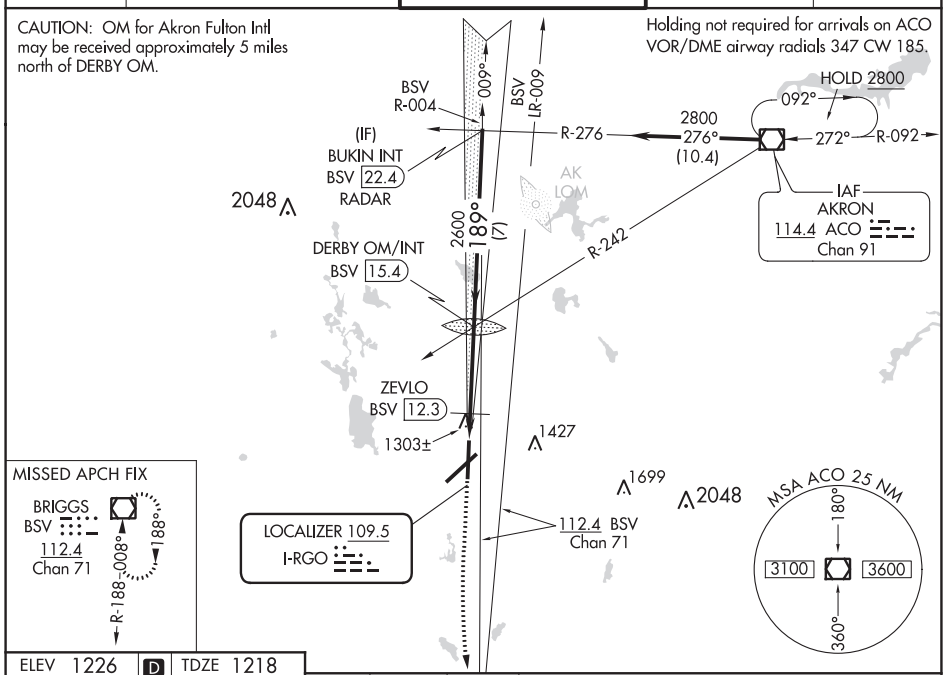
MALSR

MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 direct BSV VOR/DME and hold.

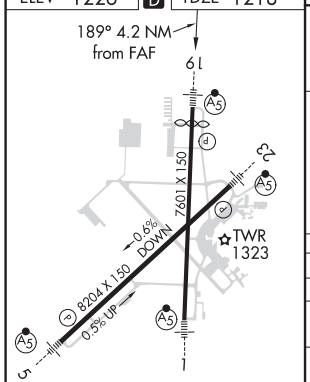
ATIS	CLEVELAND APP CON *	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05

CAUTION: OM for Akron Fulton Intl may be received approximately 5 miles north of DERBY OM.

Holding not required for arrivals on ACO VOR/DME airway radials 347 CW 185.

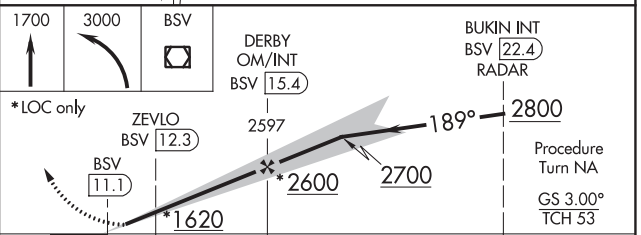


ELEV 1226 D TDZE 1218



HIRL Rwys 1-19 and 5-23

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24



CATEGORY	A	B	C	D
S-ILS 19	**1418/24 200 (200-½)			
S-LOC 19	1620/24 402 (400-½)		1620/40 402 (400-¾)	
CIRCLING	1760-1 534 (600-1)		1760-1½ 534 (600-1½)	1780-2 554 (600-2)
ZEVLO FIX MINIMUMS				
S-LOC 19	1580/24 362 (400-½)			1580/40 362 (400-¾)
CIRCLING	1760-1 534 (600-1)		1760-1½ 534 (600-1½)	1780-2 554 (600-2)

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ILS or LOC RWY 23
AKRON-CANTON RGNL (CAK)

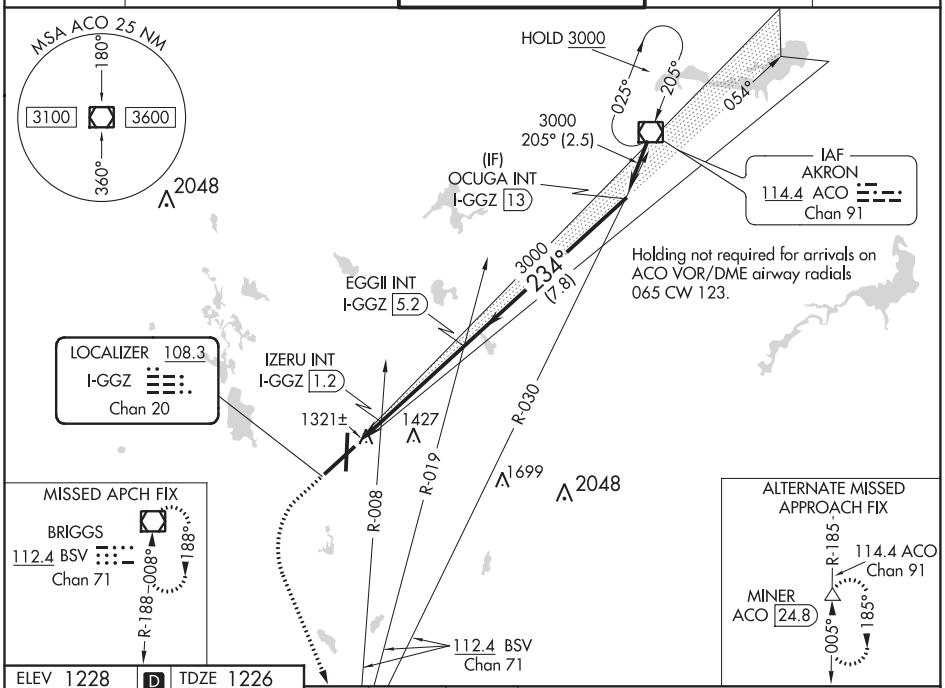
LOC/DME I-GGZ	APP CRS	Rwy ldg	8204
108.3	234°	TDZE	1226
Chan 20		Apt Elev	1228

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

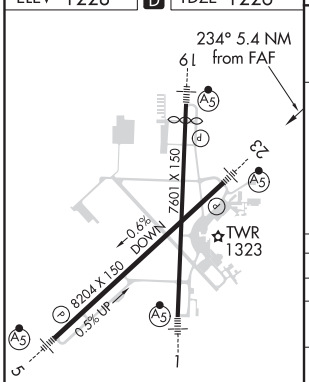
MALSR

MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct BSV VOR/DME and hold.

ATIS	CLEVELAND APP CON ★	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05

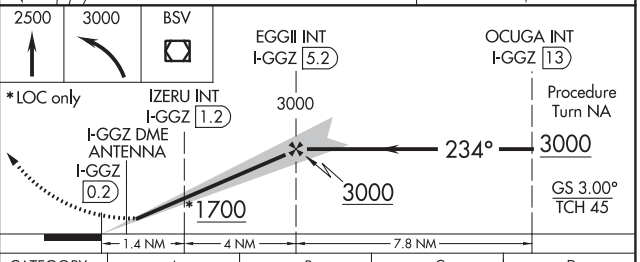


ELEV 1228 | D | TDZE 1226



HIRL Rwys 1-19 and 5-23

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-ILS 23	**1426/24 200 (200-½)			
S-LOC 23	1700/24 474 (500-½)		1700/50 474 (500-1)	
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)
IZERU FIX MINIMUMS				
S-LOC 23	1580/24 354 (400-½)			1580/40 354 (400-¾)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

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WAAS CH 70420 W01A	APP CRS 009°	Rwy ldg 7007 TDZE 1209 Apt Elev 1228

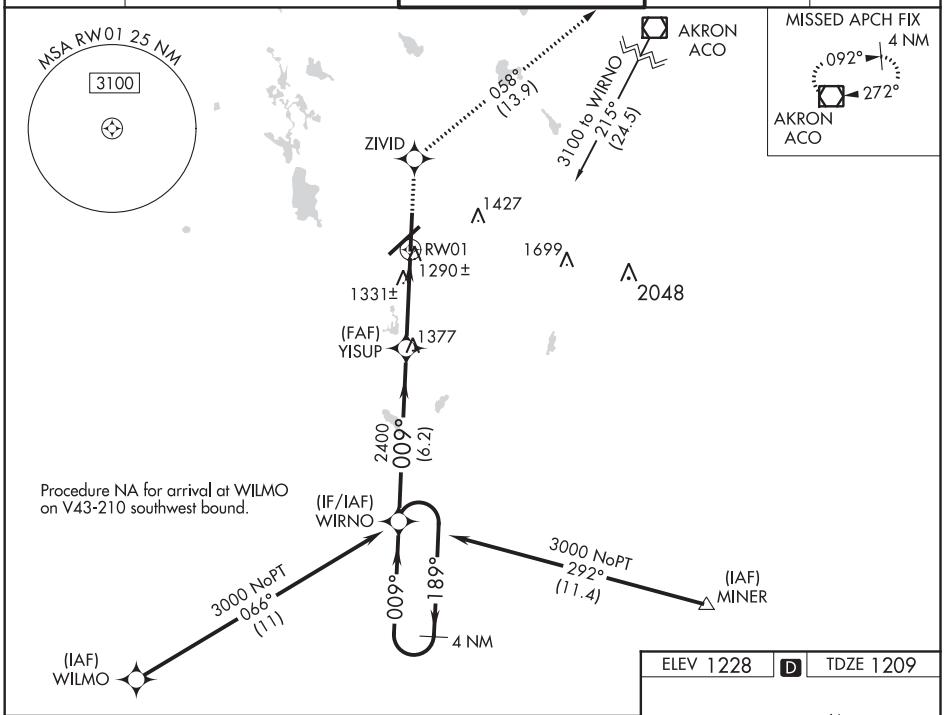
RNAV (GPS) RWY 1
AKRON-CANTON RGNL (CAK)

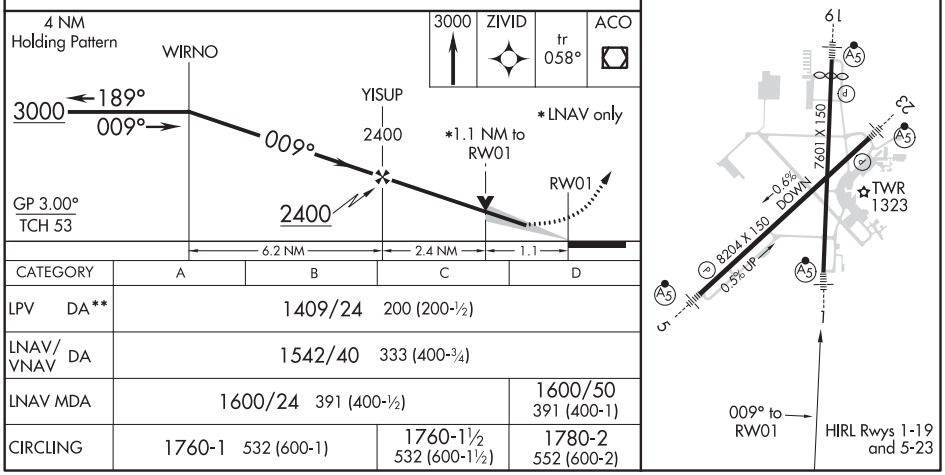
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 45°C (113°F). DME/DME RNP-0.3 NA.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 3000 direct ZIVID and on track 058° to ACO VOR/DME and hold.

ATIS	CLEVELAND APP CON ★	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05





CATEGORY	A	B	C	D
LPV DA**	1409/24 200 (200-½)			
LNAV/VNAV DA	1542/40 333 (400-¾)			
LNAV MDA	1600/24 391 (400-½)			1600/50 391 (400-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

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RNAV (GPS) RWY 5
AKRON-CANTON RGNL (CAK)

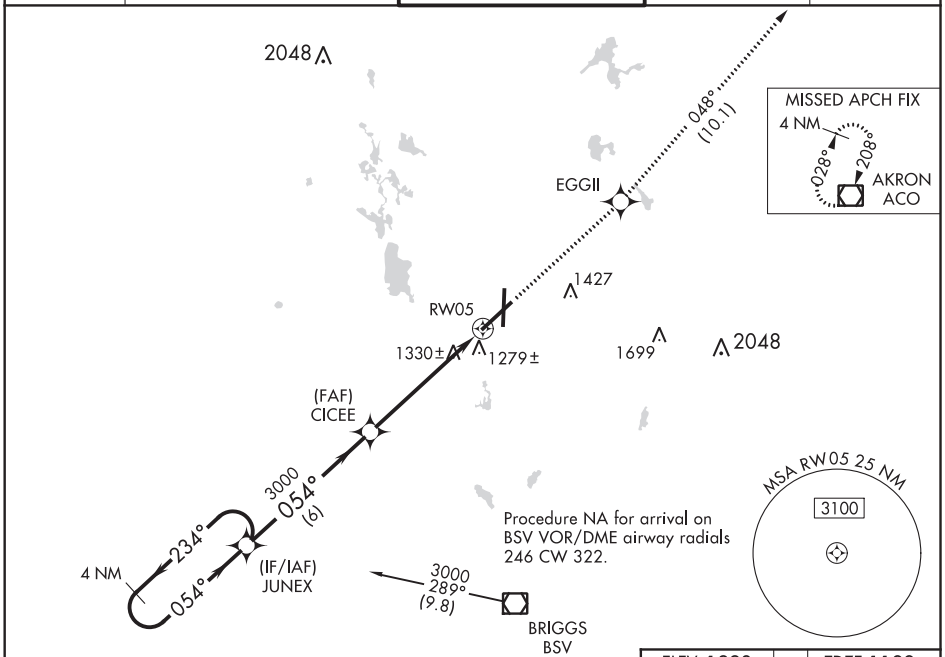
WAAS CH 77620 W05A	APP CRS 054°	Rwy ldg 8204 TDZE 1199 Apt Elev 1228

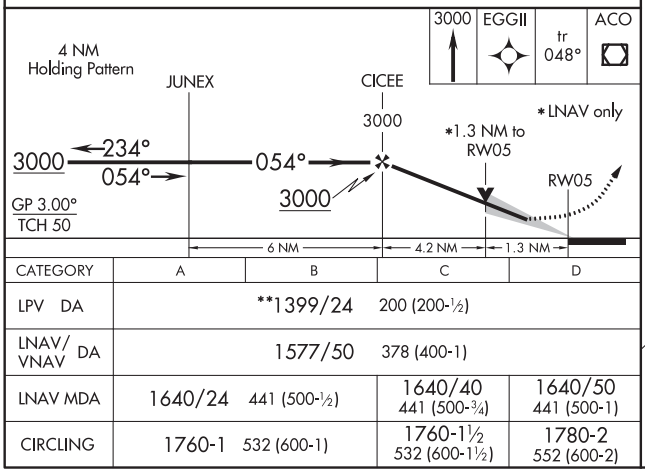
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

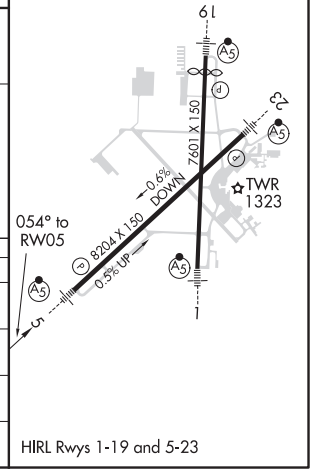
MISSED APPROACH: Climb to 3000 direct EGGII and on track 048° to ACO VOR/DME and hold.

ATIS	CLEVELAND APP CON *	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05





CATEGORY	A	B	C	D
LPV DA	**1399/24 200 (200-½)			
LNAV/VNAV DA	1577/50 378 (400-1)			
LNAV MDA	1640/24 441 (500-½)		1640/40 441 (500-¾)	1640/50 441 (500-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)



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WAAS CH 58020 W19A	APP CRS 189°	Rwy ldg 7000 TDZE 1218 Apt Elev 1228

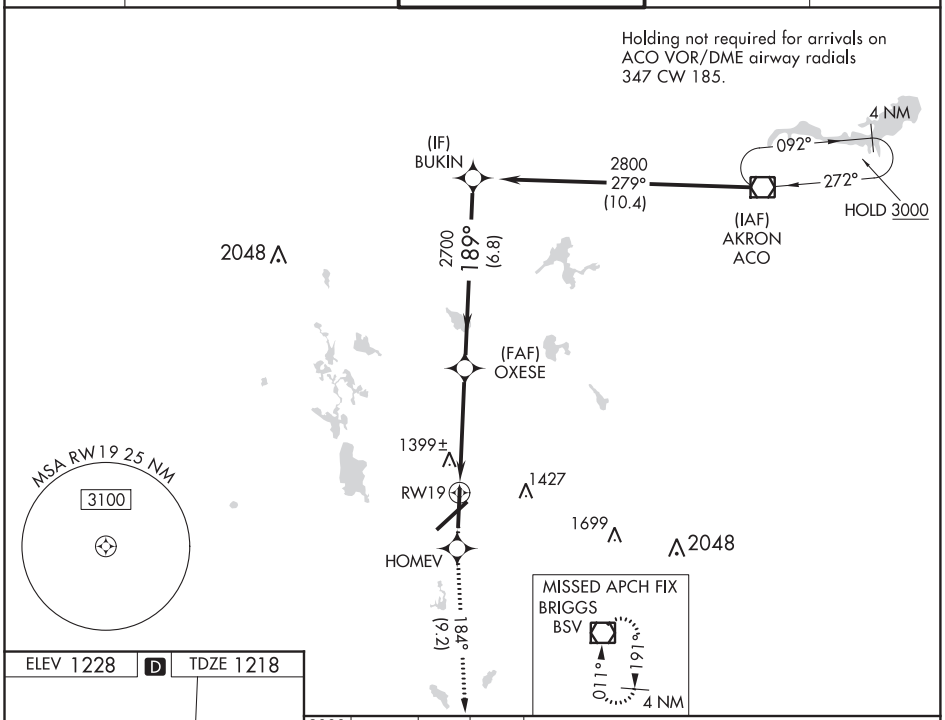
RNAV (GPS) RWY 19
AKRON-CANTON RGNL (CAK)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

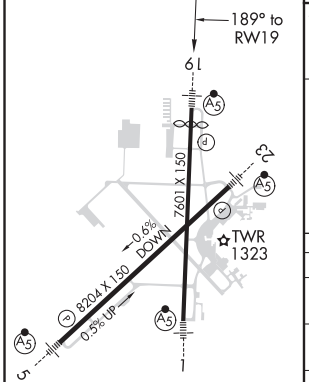
MALSR

MISSED APPROACH: Climb to 3000 direct HOMEV and on track 184° to BSV VOR/DME and hold.

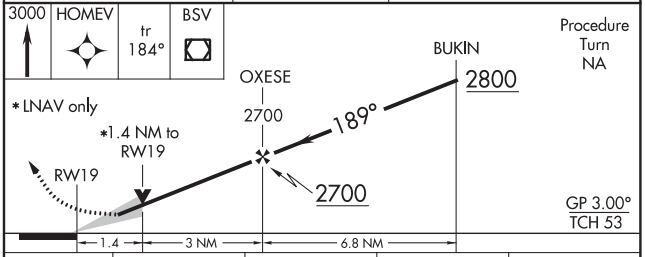
ATIS	CLEVELAND APP CON *	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05



ELEV 1228 D TDZE 1218



HIRL Rwys 1-19 and 5-23



CATEGORY	A	B	C	D
LPV DA	**1418/24 200 (200-½)			
LNAV/VNAV DA	1753-1½ 535 (600-1½)			
LNAV MDA	1700/24 482 (500-½)		1700/40 482 (500-¾)	1700/50 482 (500-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

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RNAV (GPS) RWY 23
AKRON-CANTON RGNL (CAK)

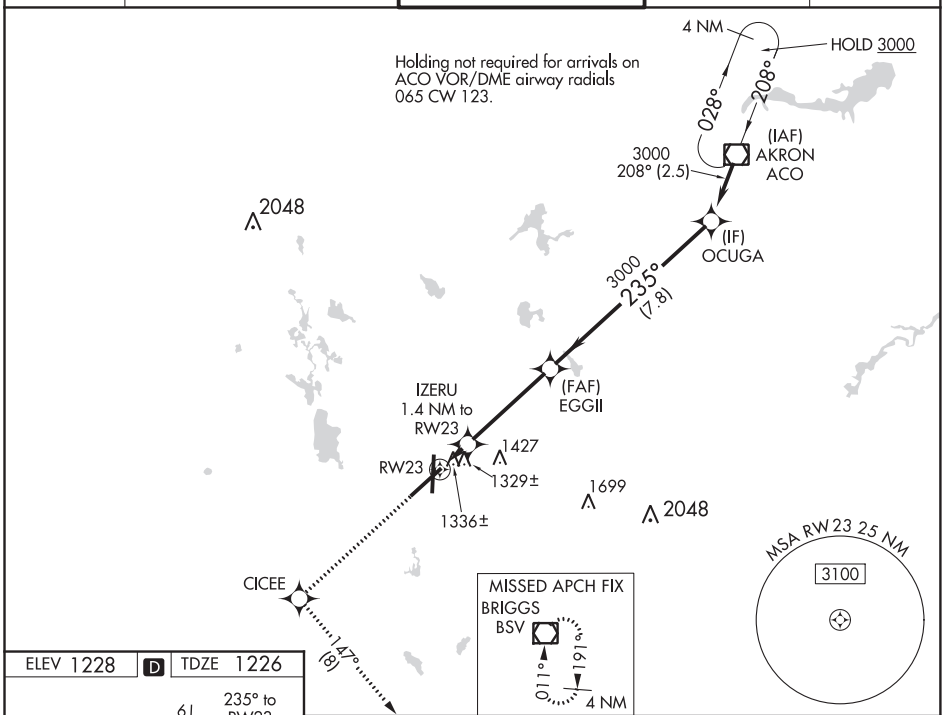
WAAS CH 90220 W23A	APP CRS 235°	Rwy ldg 8204 TDZE 1226 Apt Elev 1228

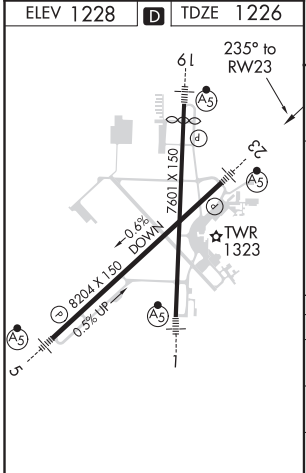
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV Cat D visibility to RVR 6000. ** RVR 1800 authorized with use of FD or AP or HUD to DA.

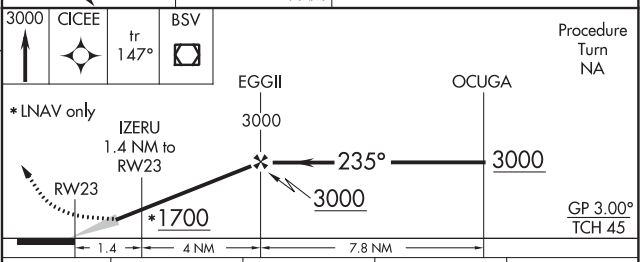
MALSR

MISSED APPROACH: Climb to 3000 direct CICEE and on track 147° to BSV VOR/DME and hold.

ATIS	CLEVELAND APP CON*	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05







CATEGORY	A	B	C	D
LPV DA	**1426/24 200 (200-½)			
LNAV/VNAV DA	1691/60 465 (500-1¼)			
LNAV MDA	1640/24 414 (500-½)		1640/40 414 (500-¾)	1640/50 414 (500-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

HIRL Rwys 1-19 and 5-23

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

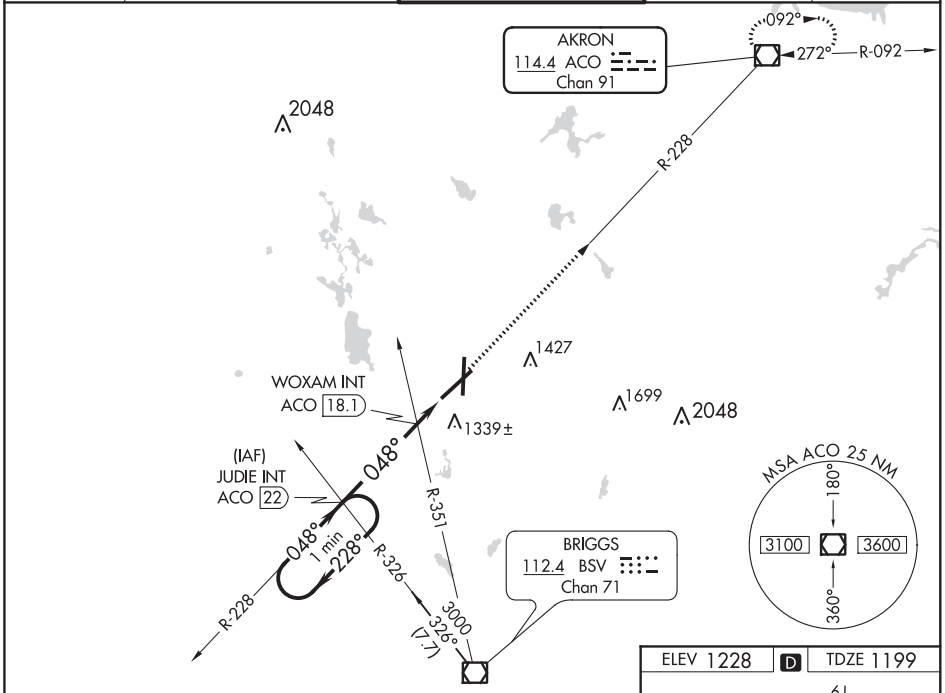
VOR/DME ACO	APP CRS	Rwy ldg	8204
114.4	048°	TDZE	1199
Chan 91		Apt Elev	1228

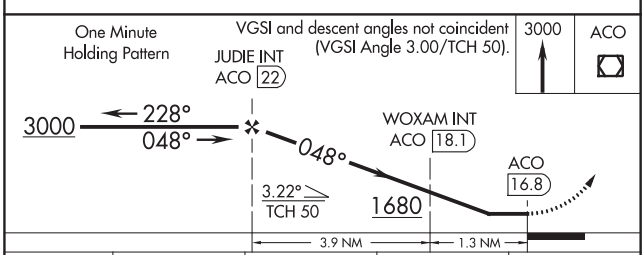
VOR RWY 5
AKRON-CANTON RGNL (CAK)

MALSR

MISSED APPROACH: Climb to 3000 direct ACO VOR/DME and hold.

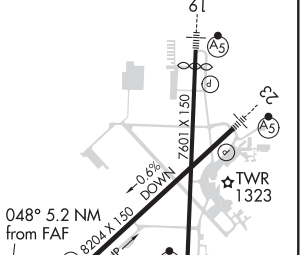
ATIS	CLEVELAND APP CON*	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05





CATEGORY	A	B	C	D
S-5	1680/24 481 (500-½)		1680/40 481 (500-¾)	1680/50 481 (500-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)
WOXAM FIX MINIMUMS				
S-5	1600/24 401 (400-½)		1600/40 401 (400-¾)	1600/50 401 (400-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

ELEV 1228 D TDZE 1199



HIRL Rwys 1-19 and 5-23

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

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

AKRON, OHIO | AL-638 (FAA) | 20366

VOR RWY 23
AKRON-CANTON RGNL (CAK)

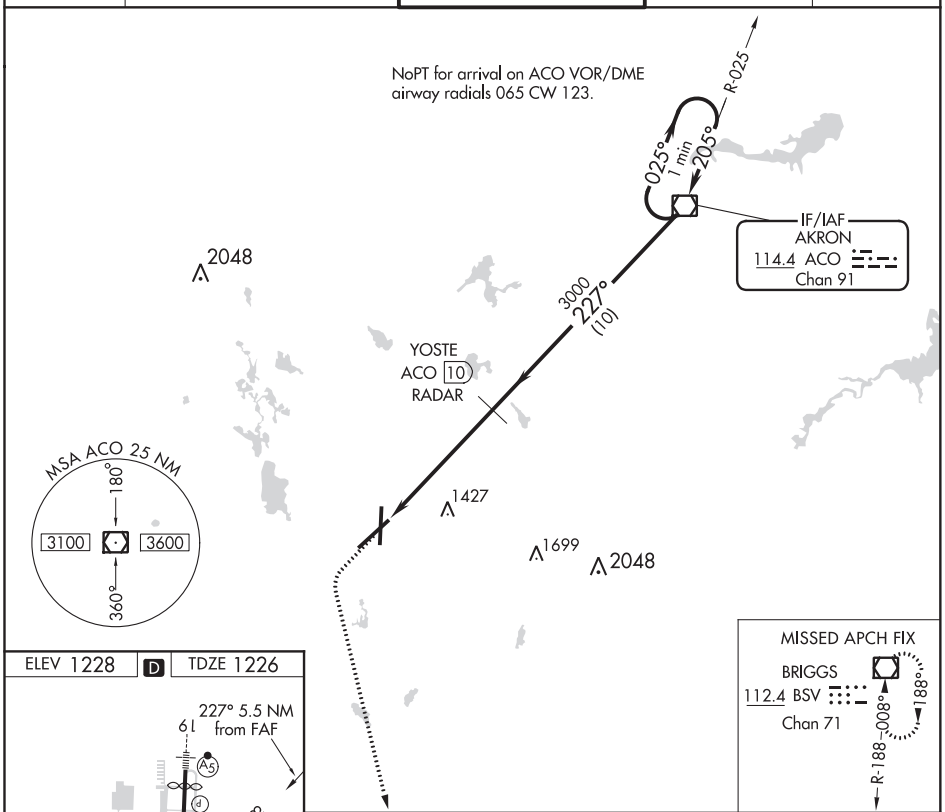
VOR/DME ACO 114.4 Chan 91	APP CRS 227°	Rwy ldg 8204 / TDZE 1226 / Apt Elev 1228

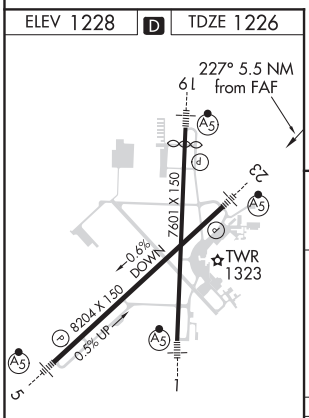
DME or RADAR required.

MALSR

MISSED APPROACH: Climb to 3000 then left turn direct BSV VOR/DME and hold.

ATIS	CLEVELAND APP CON ★	AKRON-CANTON TOWER	GND CON	CLNC DEL
121.05	125.5 269.25	134.75 279.575	121.7 348.6	132.05





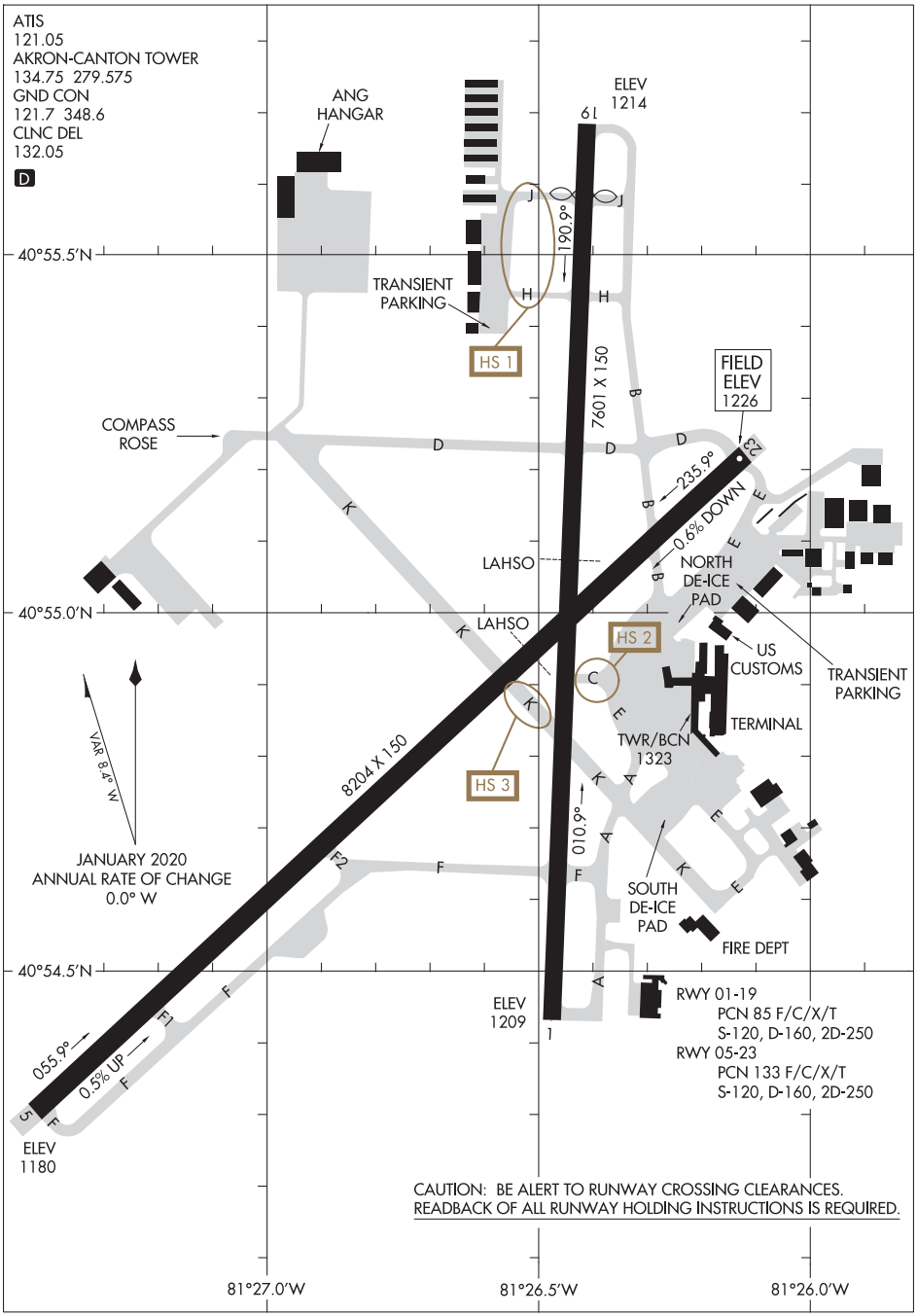
HIRL Rwys 1-19 and 5-23

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

CATEGORY	A	B	C	D
S-23	1680/24 454 (500-½)		1680/40 454 (500-¾)	1680/50 454 (500-1)
CIRCLING	1760-1 532 (600-1)		1760-1½ 532 (600-1½)	1780-2 552 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021


ATIS
121.05
AKRON-CANTON TOWER
134.75 279.575
GND CON
121.7 348.6
CLNC DEL
132.05
D
ANG HANGAR
ELEV 1214
6
1
190.9°
TRANSIENT PARKING
HS 1
7601 X 150
FIELD ELEV 1226
COMPASS ROSE
23
235.9°
0.6% DOWN
LAHSO
NORTH DE-ICE PAD
US CUSTOMS
TRANSIENT PARKING
HS 2
C
TERMINAL
TWR/BCN 1323
HS 3
8204 X 150
VAR 8.4° W
JANUARY 2020
ANNUAL RATE OF CHANGE
0.0° W
010.9°
SOUTH DE-ICE PAD
FIRE DEPT
ELEV 1209
RWY 01-19
PCN 85 F/C/X/T
S-120, D-160, 2D-250
RWY 05-23
PCN 133 F/C/X/T
S-120, D-160, 2D-250
055.9°
0.5% UP
ELEV 1180
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
40°55.5'N
40°55.0'N
40°54.5'N
81°27.0'W
81°26.5'W
81°26.0'W

ANDERSON, INDIANA | AL-5133 (FAA) | 20366

LOC I-AID	APP CRS	Rwy ldg / TDZE / Apt Elev
110.1	298°	5320 / 919 / 919

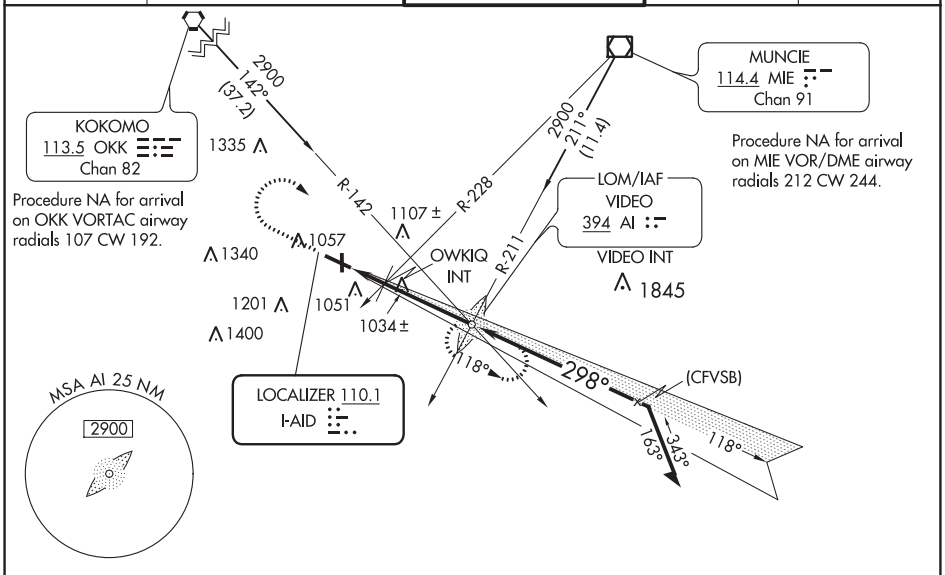
ILS or LOC RWY 30
ANDERSON MUNI-DARLINGTON FIELD (AID)

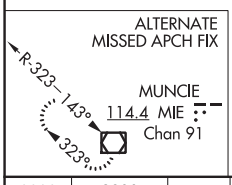
Rwy 30 helicopter visibility reduction below ¾ SM NA.

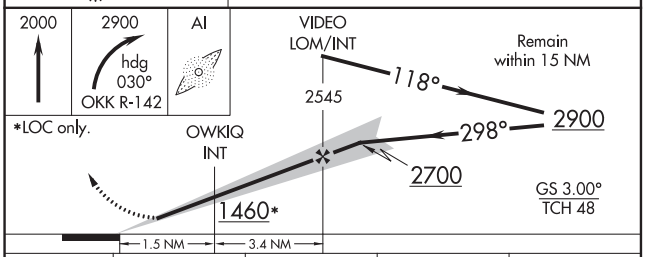
MALSF

MISSED APPROACH: Climb to 2000 then climbing right turn to 2900 heading 030° and OKK VORTAC R-142 to VIDEO LOM and hold.

AWOS-3	INDIANAPOLIS APP CON	ANDERSON TOWER ★	GND CON	UNICOM
128.55	120.65 317.8	126.0 (CTAF) L	121.6	122.95



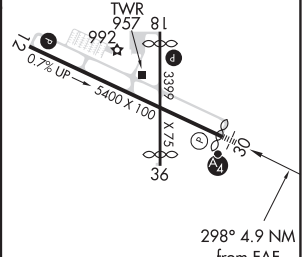




*LOC only.

CATEGORY	A	B	C	D
S-ILS 30	1209-¾ 290 (300-¾)			
S-LOC 30	1360-¾ 441 (500-¾)		1360-1 441 (500-1)	
C CIRCLING	1360-1 441 (500-1)	1400-1 481 (500-1)	1520-1¾ 601 (700-1¾)	1520-2 601 (700-2)

ELEV 919 | TDZE 919



REIL Rwy 12
MIRL Rwys 12-30 and 18-36 L

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 56415 W30A	APP CRS 298°	Rwy ldg 5320 TDZE 919 Apt Elev 919

RNAV (GPS) RWY 30
ANDERSON MUNI-DARLINGTON FIELD (AID)

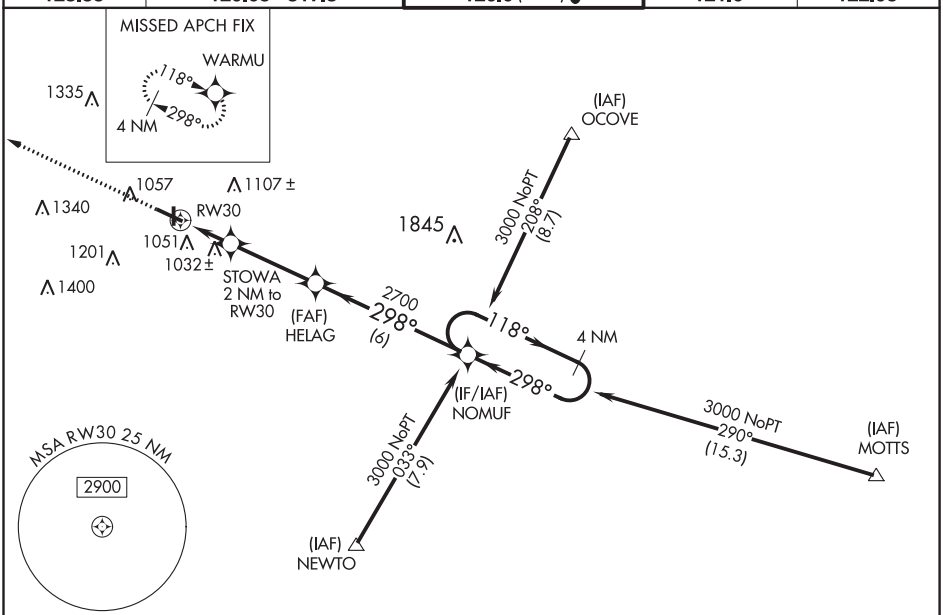
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). When local altimeter setting not received, use Muncie altimeter setting and increase all DA 32 feet and all MDA 40 feet, and increase LPV and LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile. Inoperative table does not apply.
Rwy 30 helicopter visibility reduction below ¾ SM NA.

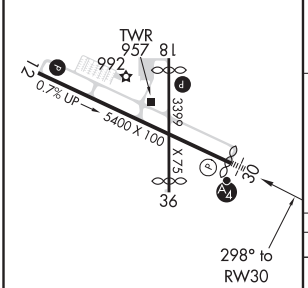
MALSF

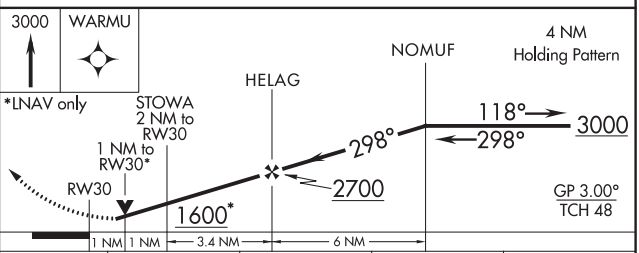
MISSED APPROACH: Climb to 3000 direct WARMU and hold.

AWOS-3	INDIANAPOLIS APP CON	ANDERSON TOWER ★	GND CON	UNICOM
128.55	120.65 317.8	126.0 (CTAF) L	121.6	122.95



ELEV 919	TDZE 919





CATEGORY	A	B	C	D
LPV DA	1234-1 315 (400-1)			
LNAV/VNAV DA	1367-1½ 448 (500-1½)			
LNAV MDA	1300-1 381 (400-1)			1300-1¼ 381 (400-1¼)
C CIRCLING	1360-1 441 (500-1)	1400-1 481 (500-1)	1520-1¾ 601 (700-1¾)	1520-2 601 (700-2)

REIL Rwy 12
MIRL Rwys 12-30 and 18-36 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

ANDERSON, INDIANA | AL-5133 (FAA) | 20366

NDB RWY 30

ANDERSON MUNI-DARLINGTON FIELD (AID)

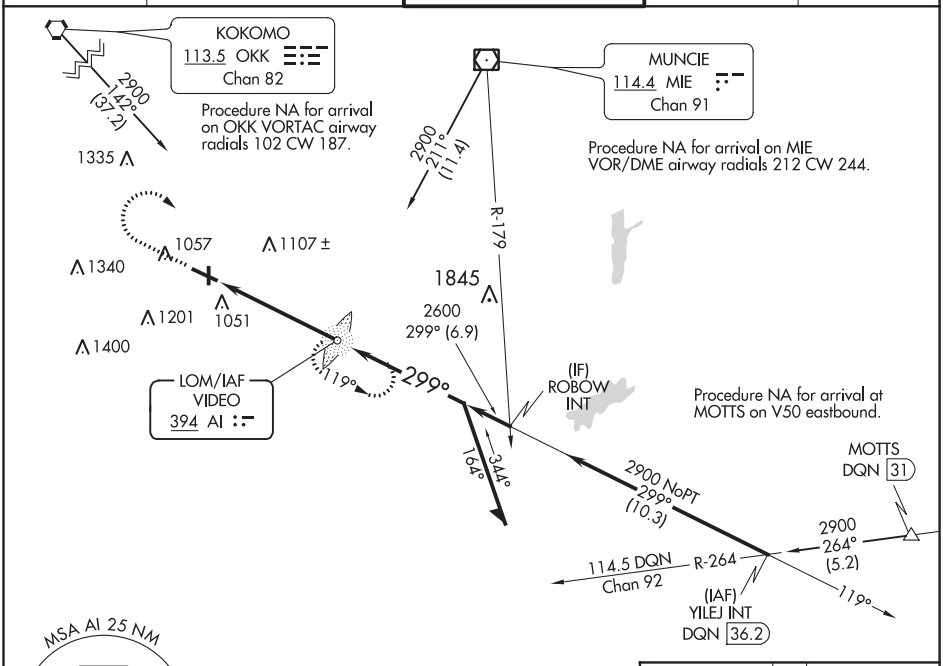
LOM AI	APP CRS	Rwy ldg	5320
394	299°	TDZE	919
		Apt Elev	919

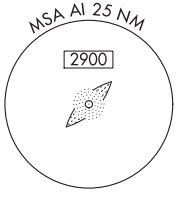
Rwy 30 helicopter visibility reduction below ¾ SM NA.
For inop ALS, increase S-30 Cat C/D visibility to 1¾ SM.

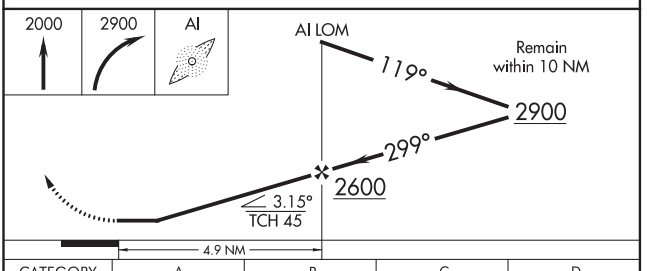
MALSF

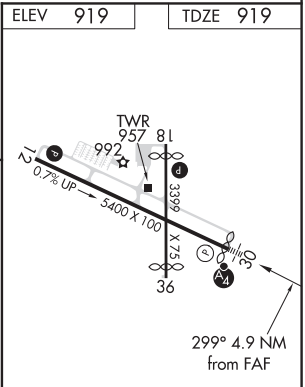
MISSED APPROACH: Climb to 2000 then climbing right turn to 2900 direct VIDEO LOM and hold.

AWOS-3	INDIANAPOLIS APP CON	ANDERSON TOWER ★	GND CON	UNICOM
128.55	120.65 317.8	126.0 (CTAF) L	121.6	122.95









REIL Rwy 12
MIRL Rwys 12-30 and 18-36 L

CATEGORY	A	B	C	D
S-30	1500-¾ 581 (600-¾)		1500-1⅜ 581 (600-1⅜)	
C CIRCLING	1500-1 581 (600-1)		1520-1¾ 601 (700-1¾)	1520-2 601 (700-2)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

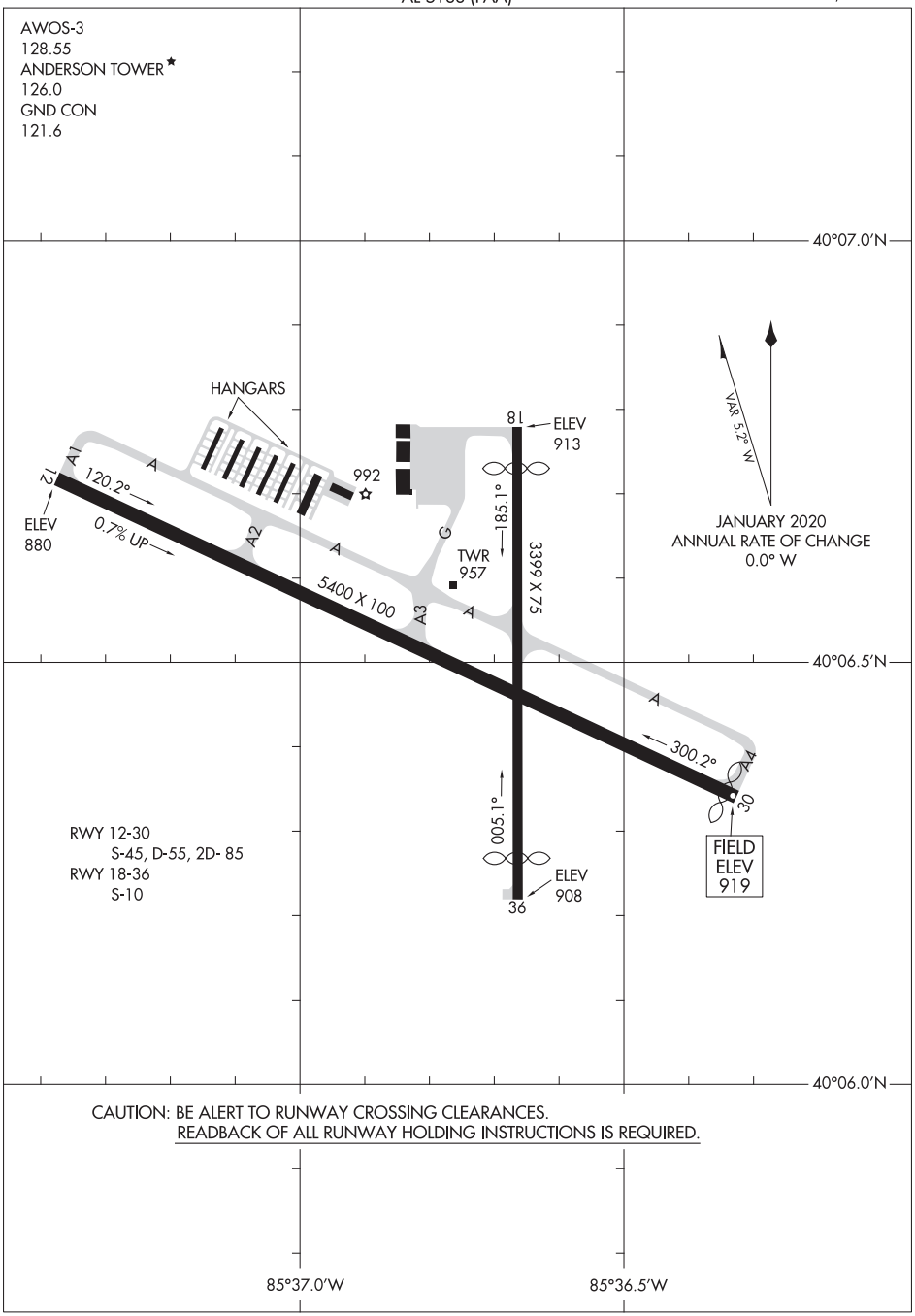
ANDERSON, INDIANA
Amdt 8B 31DEC20

40°07′N-85°37′W

ANDERSON MUNI-DARLINGTON FIELD (AID)
NDB RWY 30

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021



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

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ANGOLA, INDIANA | AL-6196 (FAA) | 20114

APP CRS	Rwy ldg	4000
052°	TDZE	990
	Apt Elev	995

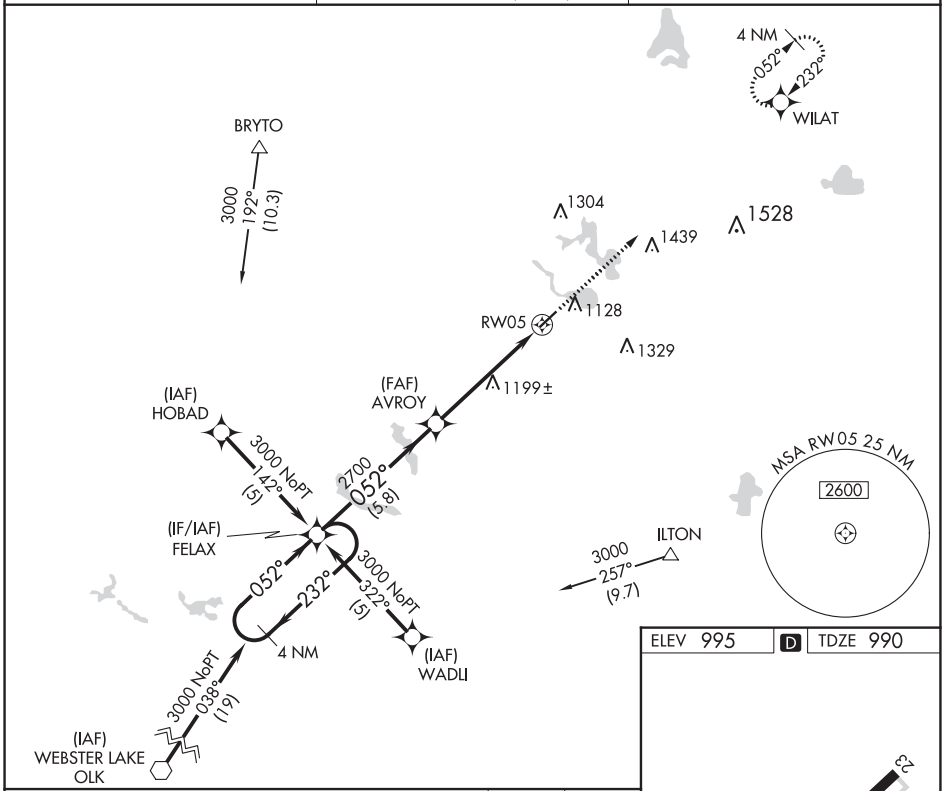
RNAV (GPS) RWY 5
TRI-STATE STEUBEN COUNTY (ANQ)

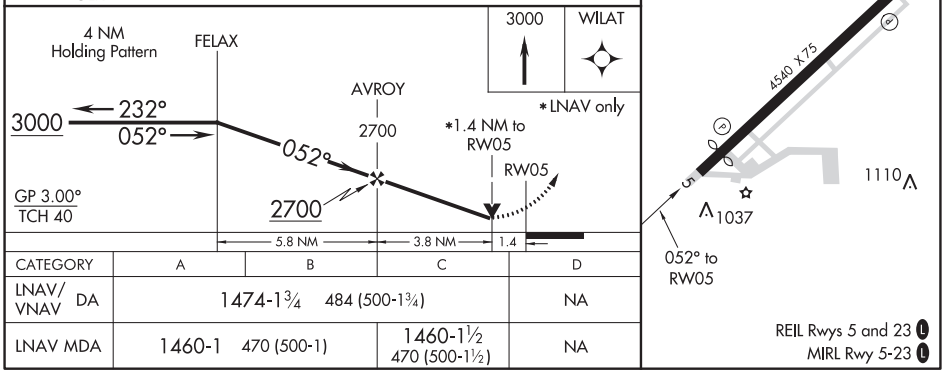
RNP APCH.

NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 5 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct WILAT and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
118.175	127.2 284.6 (SW/NW) 132.15 284.6 (SE/NE)	123.075 (CTAF) L





CATEGORY	A	B	C	D
LNAV/VNAV DA	1474-1¾ 484 (500-1¾)			NA
LNAV MDA	1460-1 470 (500-1)		1460-1½ 470 (500-1½)	NA

REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	4000
232°	TDZE	995
	Apt Elev	995

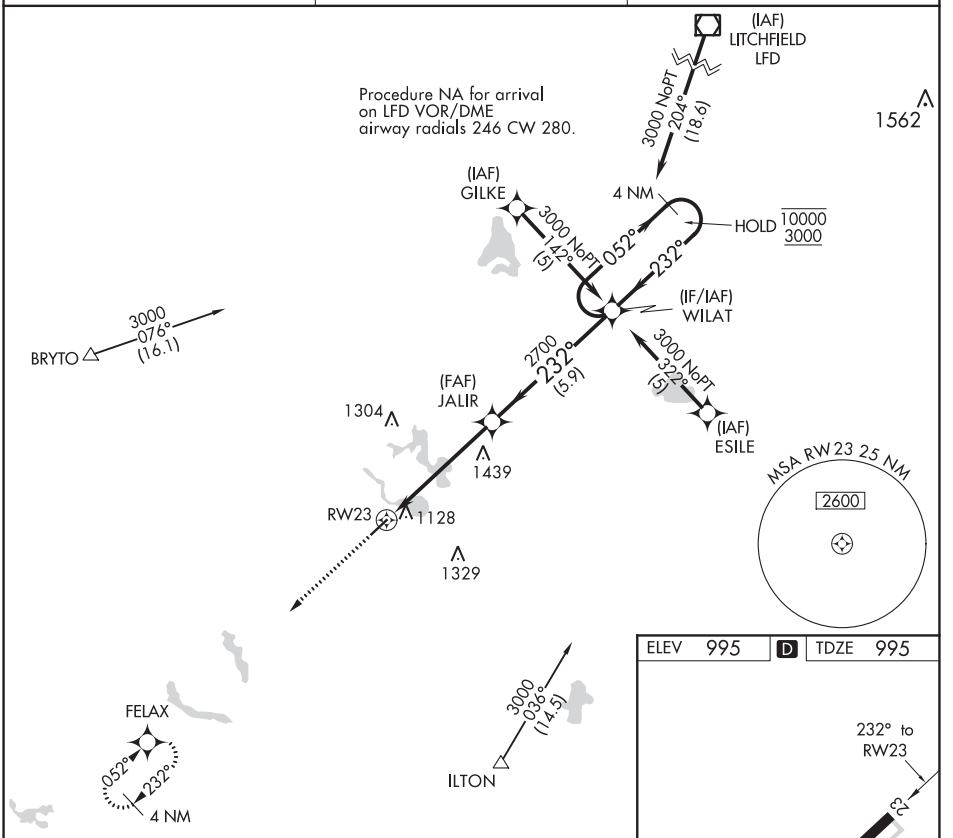
RNAV (GPS) RWY 23
TRI-STATE STEUBEN COUNTY (ANQ)

RNP APCH.

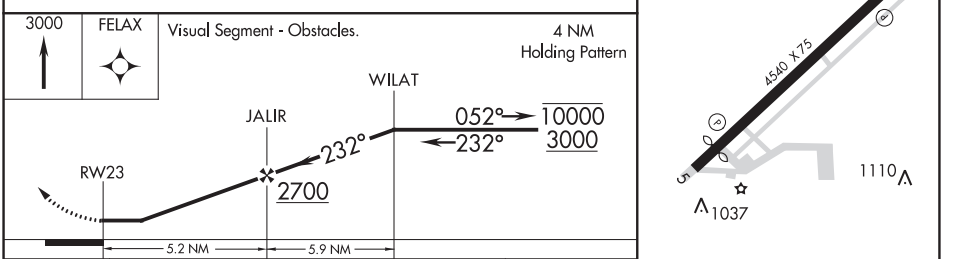
Rwy 23 helicopter visibility reduction below 1 SM NA.
Procedure NA at night.

MISSED APPROACH: Climb to 3000 direct FELAX and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
118.175	127.2 284.6 (SW/NW) 132.15 284.6 (SE/NE)	123.075 (CTAF) L



ELEV	995	D	TDZE	995



CATEGORY	A	B	C	D
LNAV MDA	1700-1 705 (800-1)		1700-2 705 (800-2)	NA

REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

ASHLAND, OHIO | AL-6115 (FAA) | 19283

APP CRS	Rwy ldg	3501
188°	TDZE	1204
	Apt Elev	1207

RNAV (GPS) RWY 19
ASHLAND COUNTY (3G4)

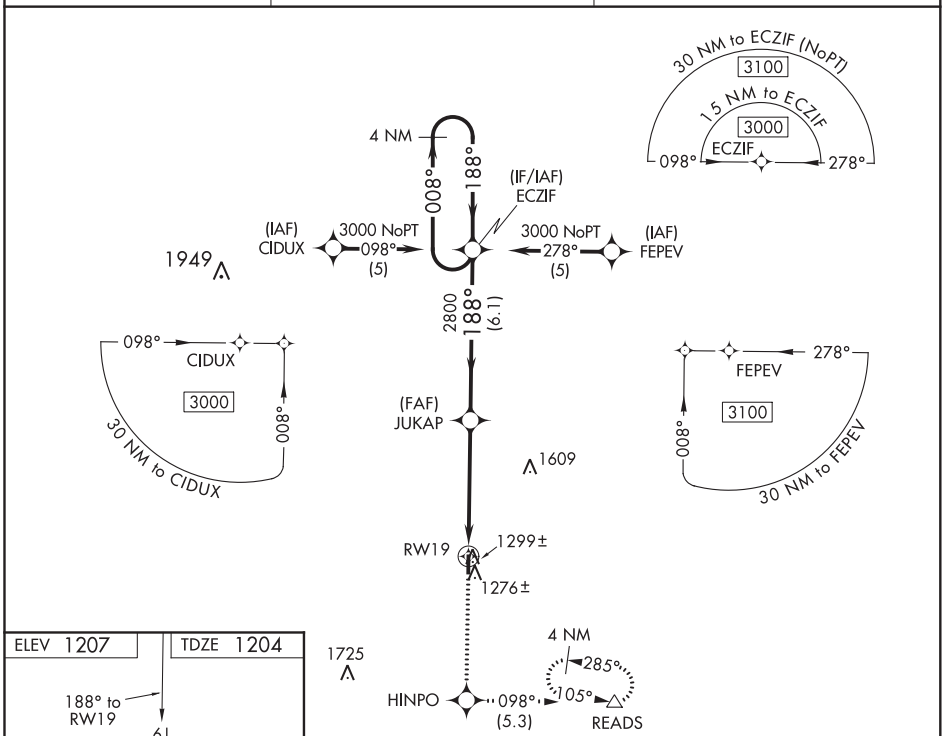
RNP APCH.

NA

Rwy 19 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Use Mansfield altimeter setting, when not received use Wooster altimeter setting.

MISSED APPROACH: Climb to 3000 direct HINPO and left turn on track 098° to READS and hold.

MFD ASOS	CLEVELAND APP CON ★	UNICOM
125.3	124.2 360.65	122.7 (CTAF) L



ELEV 1207 | TDZE 1204

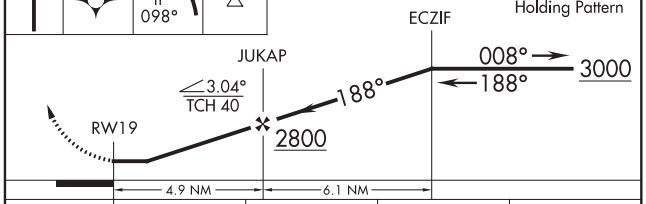
188° to RW19

REIL Rwys 1 and 19 L
MIRL Rwy 1-19 L

3000	HINPO	tr 098°	READS

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 20).

4 NM Holding Pattern



CATEGORY	A	B	C	D
LNAV MDA	1600-1 396 (400-1)		1600-1⅛ 396 (400-1⅛)	NA
CIRCLING	1660-1 453 (500-1)		1660-1½ 453 (500-1½)	NA

ASHLAND, OHIO
Orig-E 24MAY18

40°54'N-82°15'W

ASHLAND COUNTY (3G4)
RNAV (GPS) RWY 19

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

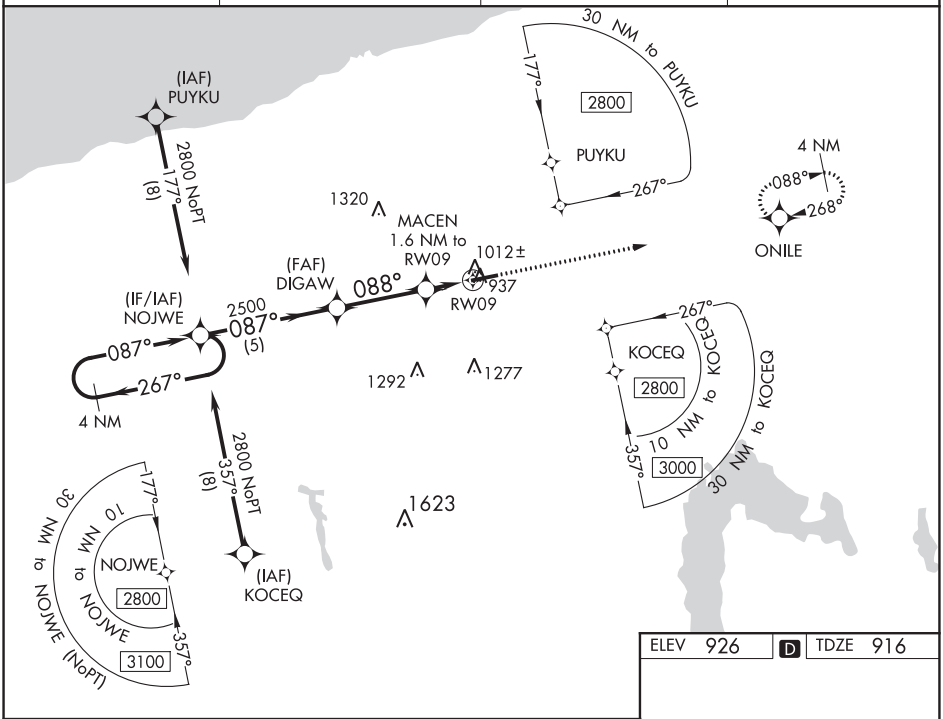
WAAS CH 58013 W09A	APP CRS 088°	Rwy ldg 5100 TDZE 916 Apt Elev 926

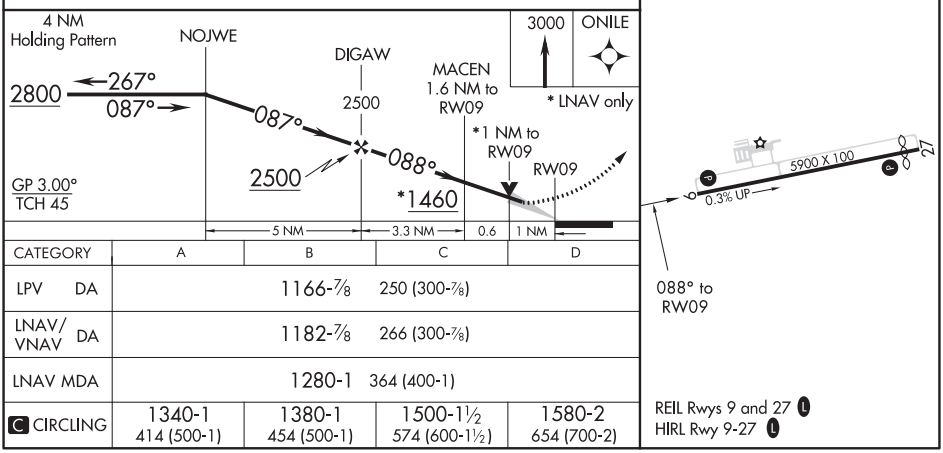
RNAV (GPS) RWY 9
NORTHEAST OHIO RGNL (HZY)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct ONILE and hold.

ASOS	BUFFALO APP CON ★	UNICOM	
118.325	121.0	122.8 (CTAF)	123.3 L





CATEGORY	A	B	C	D
LPV DA	1166-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1182-⅞ 266 (300-⅞)			
LNAV MDA	1280-1 364 (400-1)			
C CIRCLING	1340-1 414 (500-1)	1380-1 454 (500-1)	1500-1½ 574 (600-1½)	1580-2 654 (700-2)

REIL Rwys 9 and 27 L
HIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ASHTABULA, OHIO | AL-5613 (FAA) | 20254

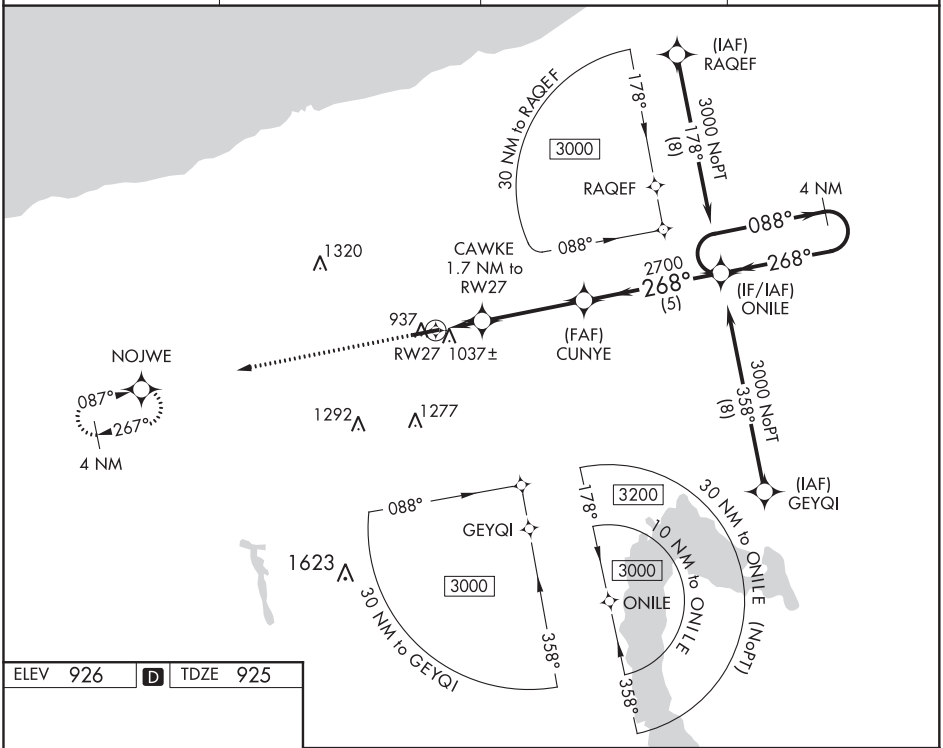
WAAS CH 72713 W27A	APP CRS 268°	Rwy ldg 5100 TDZE 925 Apt Elev 926

RNAV (GPS) RWY 27
NORTHEAST OHIO RGNL (HZY)

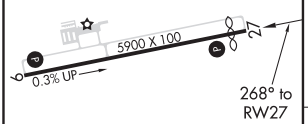
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

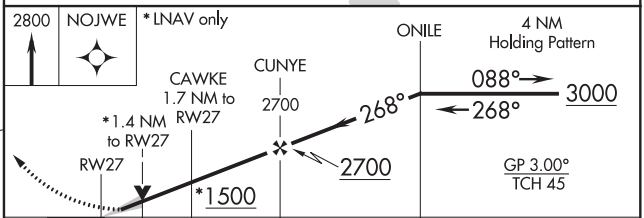
MISSED APPROACH: Climb to 2800 direct NOJWE and hold.

ASOS	BUFFALO APP CON ★	UNICOM	
118.325	121.0	122.8 (CTAF)	123.3 L



ELEV 926 | D | TDZE 925





CATEGORY	A	B	C	D
LPV DA	1184-⅞ 259 (300-⅞)			
LNAV/VNAV DA	1198-⅞ 273 (300-⅞)			
LNAV MDA	1300-1 375 (400-1)			
CIRCLING	1340-1 414 (500-1)	1380-1 454 (500-1)	1500-1½ 574 (600-1½)	1580-2 654 (700-2)

REIL Rwys 9 and 27 L
HIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME JFN 115.2 Chan 99	APP CRS 252°	Rwy ldg 5100 TDZE 925 Apt Elev 926

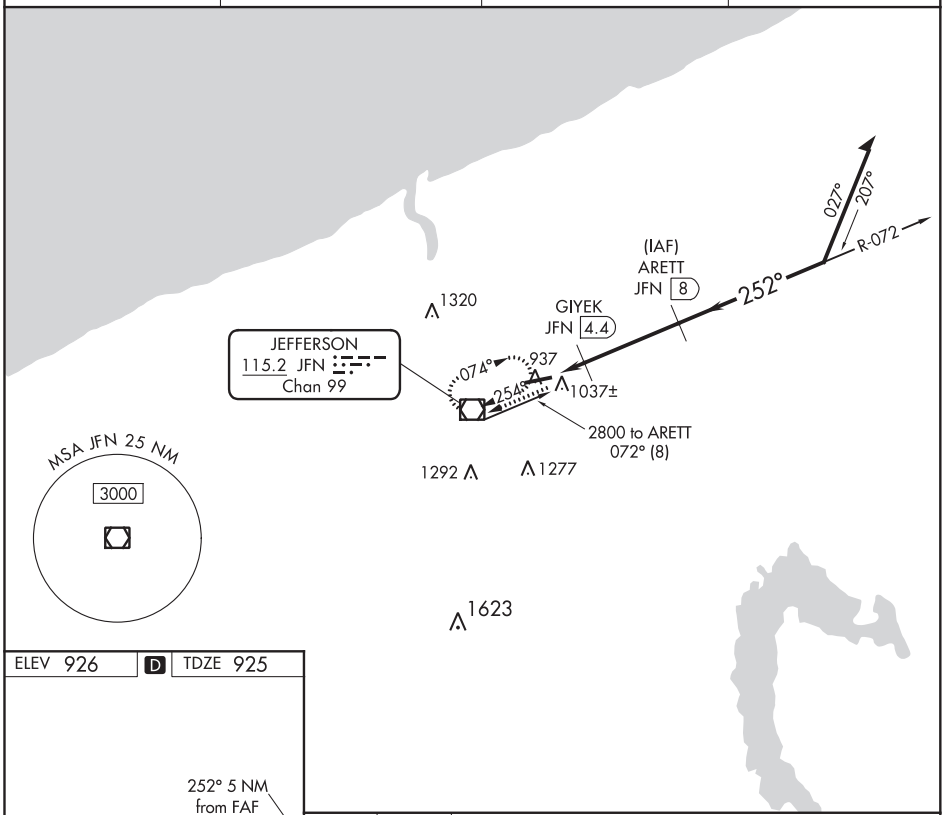
VOR RWY 27
NORTHEAST OHIO RGNL (HZY)

DME Required. RADAR Required for Procedure Entry.

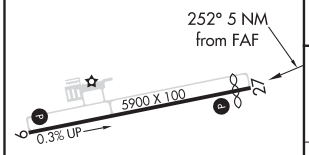
Rwy 27 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 27 NA at night.

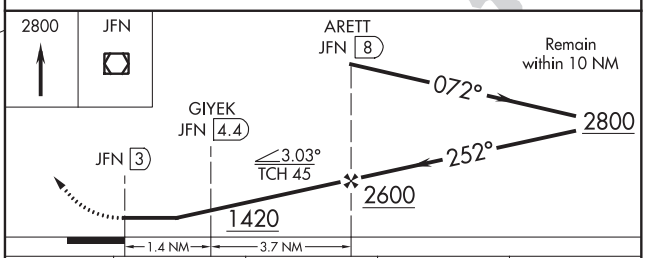
MISSED APPROACH: Climb to 2800 direct JFN VOR/DME and hold, continue climb-in-hold to 2800.

ASOS	BUFFALO APP CON ★	UNICOM	
118.325	121.0	122.8 (CTAF)	123.3 L



ELEV 926 | D | TDZE 925





CATEGORY	A	B	C	D
S-27	1300-1 375 (400-1)			
C CIRCLING	1340-1 414 (500-1)	1380-1 454 (500-1)	1500-1½ 574 (600-1½)	1580-2 654 (700-2)

REIL Rwys 9 and 27 L
HIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ASHTABULA, OHIO | AL-5613 (FAA) | 20254

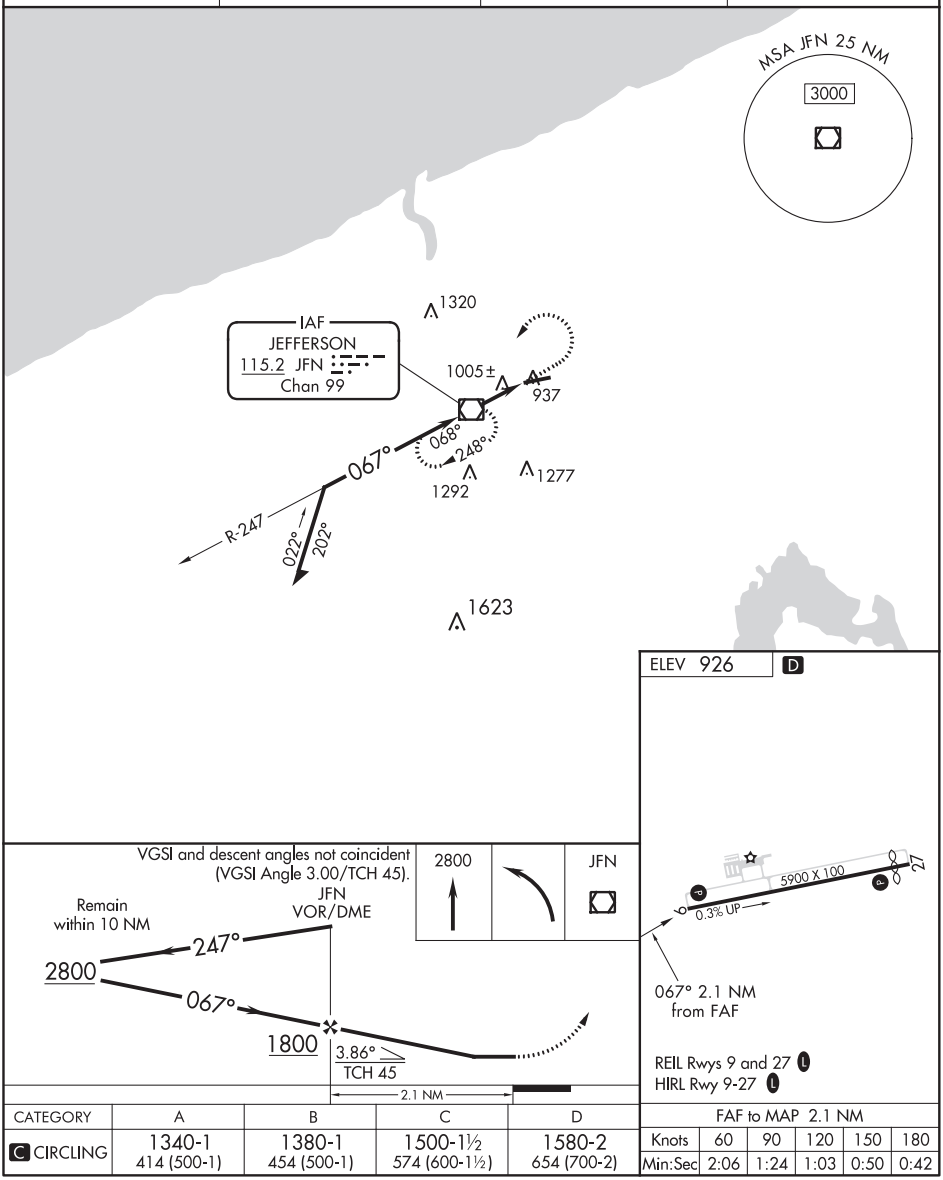
VOR-A
NORTHEAST OHIO RGNL (HZY)

VOR/DME JFN 115.2 Chan 99	APP CRS 067°	Rwy ldg N/A TDZE N/A Apt Elev 926

RADAR Required for Procedure Entry.

MISSED APPROACH: Climb to 2800 then left turn direct JFN VOR/DME and hold.

ASOS	BUFFALO APP CON ★	UNICOM	
118.325	121.0	122.8 (CTAF)	123.3 L



CATEGORY	A	B	C	D
C CIRCLING	1340-1 414 (500-1)	1380-1 454 (500-1)	1500-1½ 574 (600-1½)	1580-2 654 (700-2)

FAF to MAP 2.1 NM					
Knots	60	90	120	150	180
Min:Sec	2:06	1:24	1:03	0:50	0:42

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

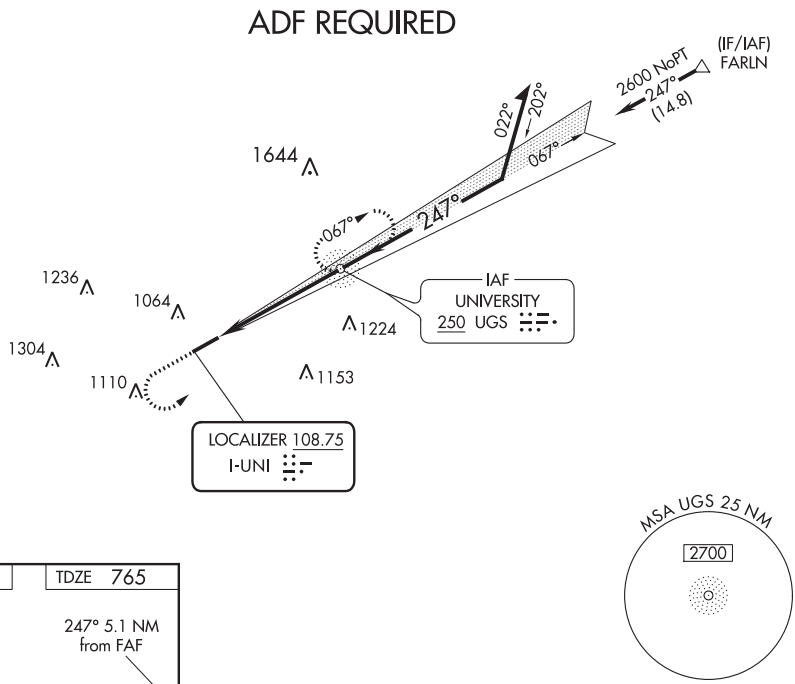
ILS or LOC RWY 25
OHIO UNIVERSITY (UNI)

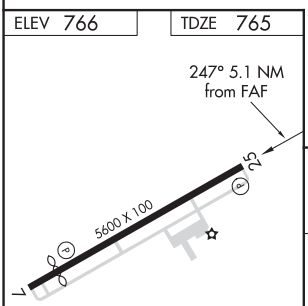
LOC I-UNI	APP CRS	Rwy ldg	5600
108.75	247°	TDZE	765
		Apt Elev	766

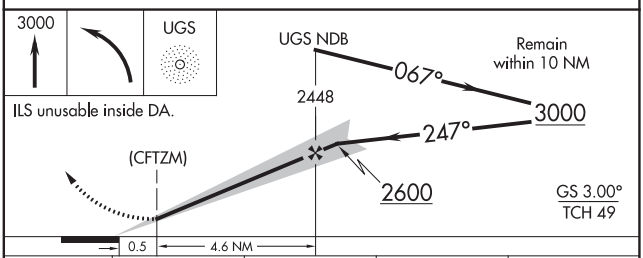
T ADF required.
A NA

MISSED APPROACH: Climb to 3000 then left turn direct UGS NDB and hold.

AWOS-3	HUNTINGTON APP CON	CLNC DEL	UNICOM
128.325	120.95 270.1	120.95	123.075 (CTAF) L







MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

CATEGORY	A	B	C	D
S-ILS 25	974-1 209 (300-1)			
S-LOC 25	1420-1 655 (700-1)		1420-1⅞ 655 (700-1⅞)	
C CIRCLING	1420-1 654 (700-1)		1420-1⅞ 654 (700-1⅞)	1480-2¼ 714 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

ATHENS/ALBANY, OHIO — AL-5861 (FAA) — 19171

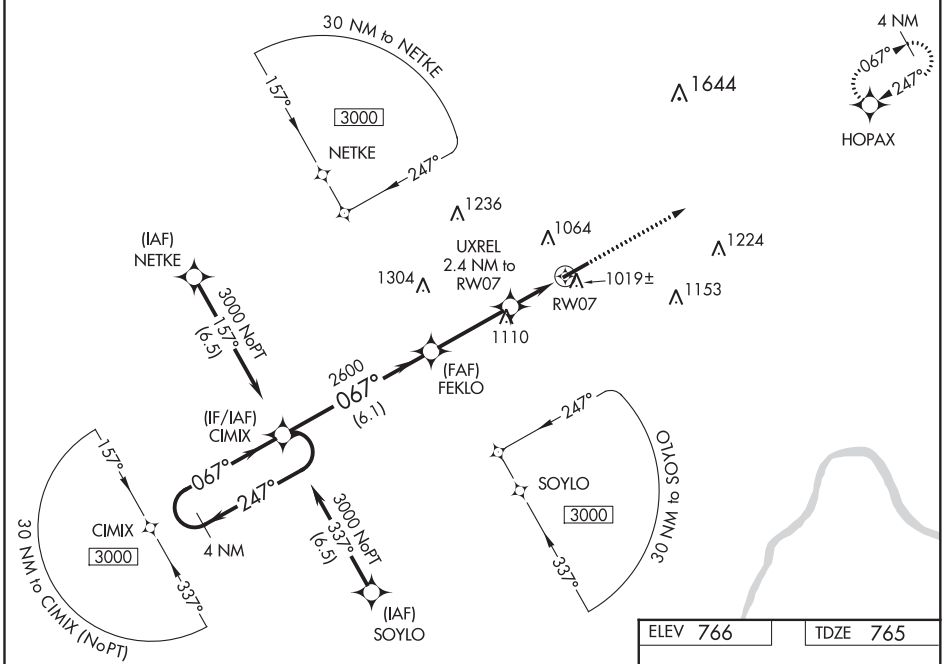
WAAS CH 81916 W07A	APP CRS 067°	Rwy ldg 4700 TDZE 765 Apt Elev 766

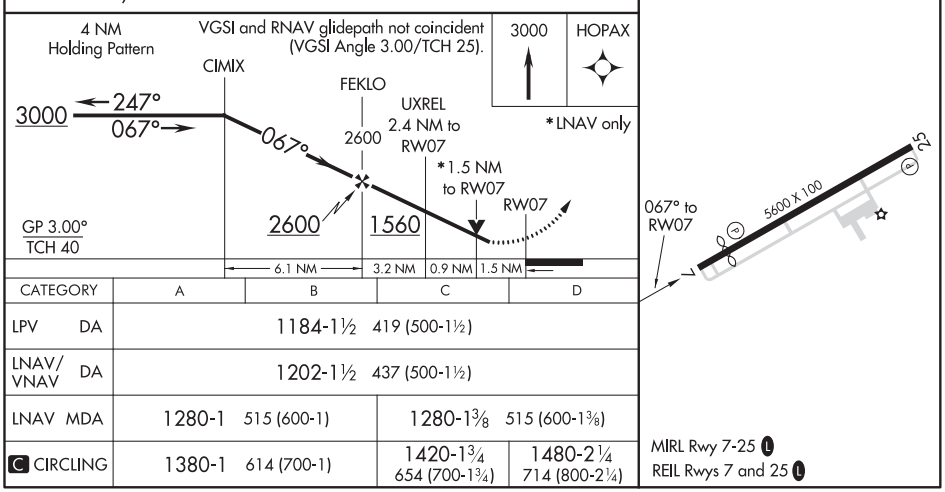
RNAV (GPS) RWY 7
OHIO UNIVERSITY (UNI)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Rwy 7 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct HOPAX and hold.

AWOS-3	HUNTINGTON APP CON	CLNC DEL	UNICOM
128.325	120.95 270.1	120.95	123.075 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1184-1½ 419 (500-1½)			
LNAV/VNAV DA	1202-1½ 437 (500-1½)			
LNAV MDA	1280-1 515 (600-1)		1280-1⅜ 515 (600-1⅜)	
C CIRCLING	1380-1 614 (700-1)		1420-1¾ 654 (700-1¾)	1480-2¼ 714 (800-2¼)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

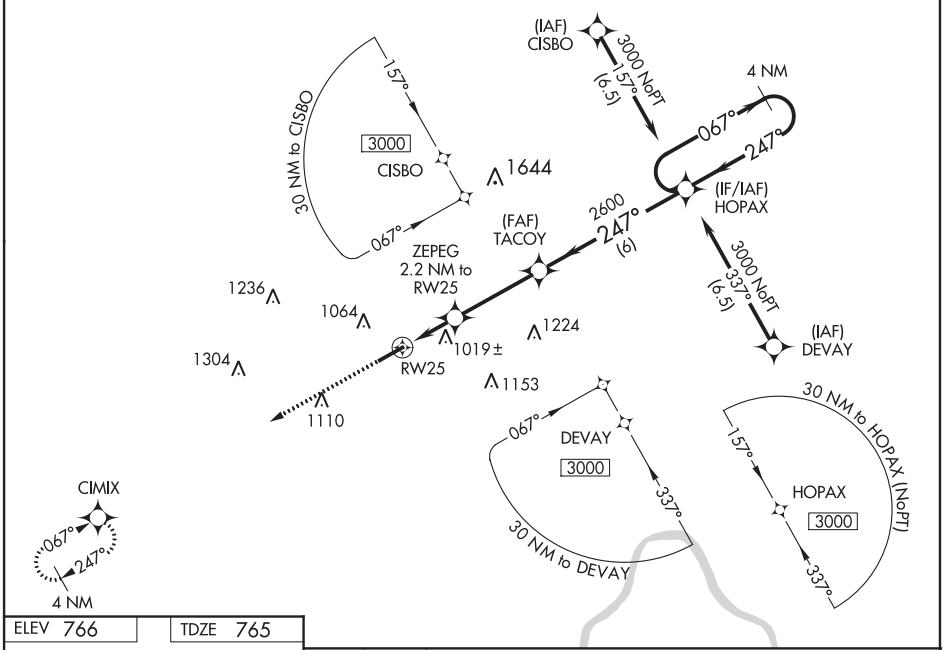
WAAS CH 90316 W25A	APP CRS 247°	Rwy ldg 5600 TDZE 765 Apt Elev 766

RNAV (GPS) RWY 25
OHIO UNIVERSITY (UNI)

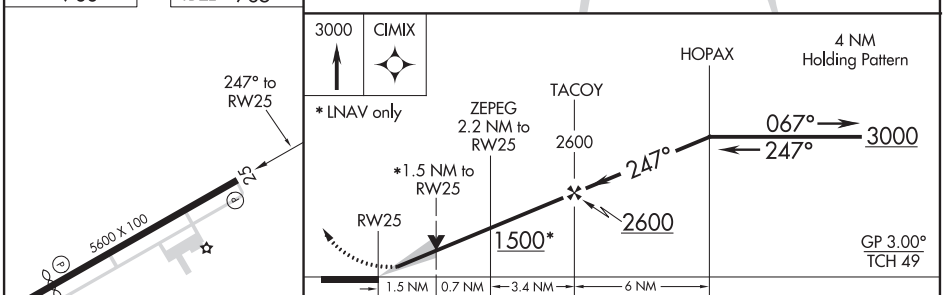
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct CIMIX and hold.

AWOS-3	HUNTINGTON APP CON	CLNC DEL	UNICOM
128.325	120.95 270.1	120.95	123.075 (CTAF) L



ELEV 766	TDZE 765



CATEGORY	A	B	C	D
LPV DA	965-¾ 200 (200-¾)			
LNAV/VNAV DA	1356-2 591 (600-2)			
LNAV MDA	1280-1 515 (600-1)		1280-1⅜ 515 (600-1⅜)	
C CIRCLING	1380-1 614 (700-1)		1420-1¾ 654 (700-1¾)	1480-2¼ 714 (800-2¼)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

ATHENS/ALBANY, OHIO AL-5861 (FAA) 20170

NDB RWY 25
OHIO UNIVERSITY (UNI)

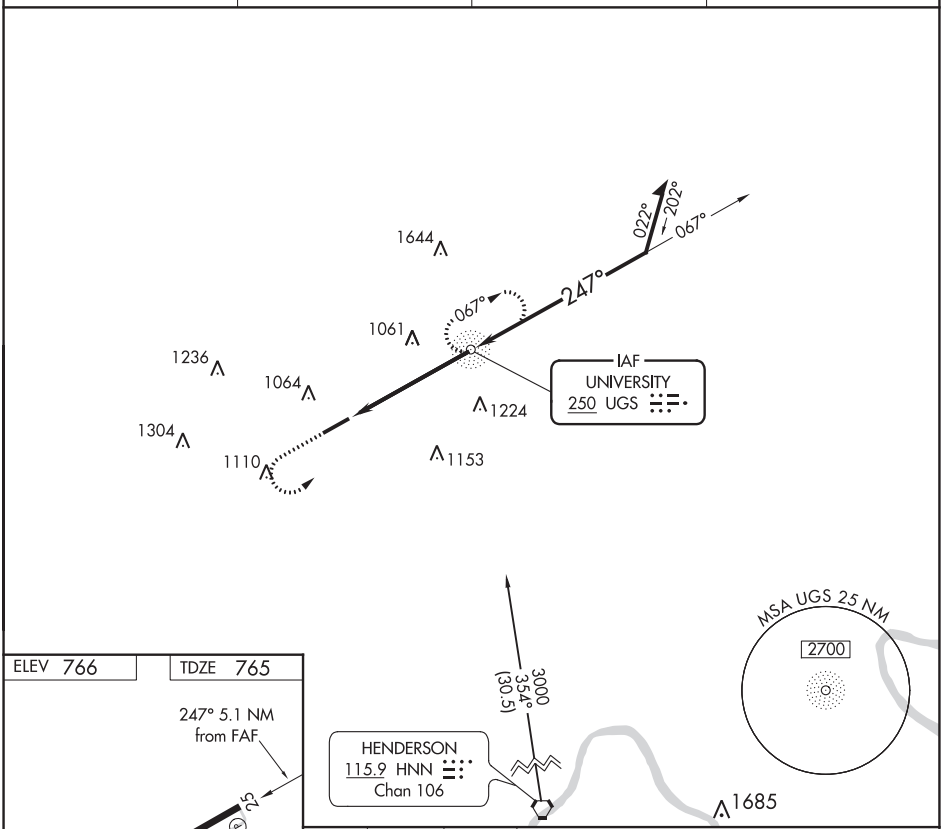
NDB UGS	APP CRS	Rwy ldg / TDZE / Apt Elev
250	247°	5600 / 765 / 766

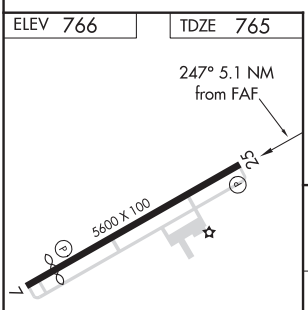
T When local altimeter setting not received, use Parkersburg, WV altimeter setting and increase all MDAs 100 feet. Increase S-25 Cat C visibility ¼ SM and Circling Cat C/D ½ SM.

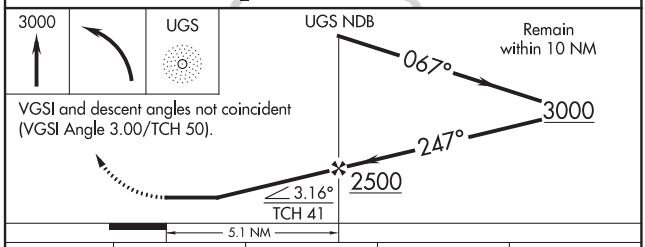
A NA

MISSED APPROACH: Climb to 3000 then left turn direct UGS NDB and hold.

AWOS-3	HUNTINGTON APP CON	CLNC DEL	UNICOM
128.325	120.95 270.1	120.95	123.075 (CTAF) L







VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 50).

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
S-25	1380-1 615 (700-1)		1380-1¾ 615 (700-1¾)	1380-2 615 (700-2)
C CIRCLING	1380-1 614 (700-1)	1420-1 654 (700-1)	1420-1¾ 654 (700-1¾)	1480-2¼ 714 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 27
DE KALB COUNTY (GWB)

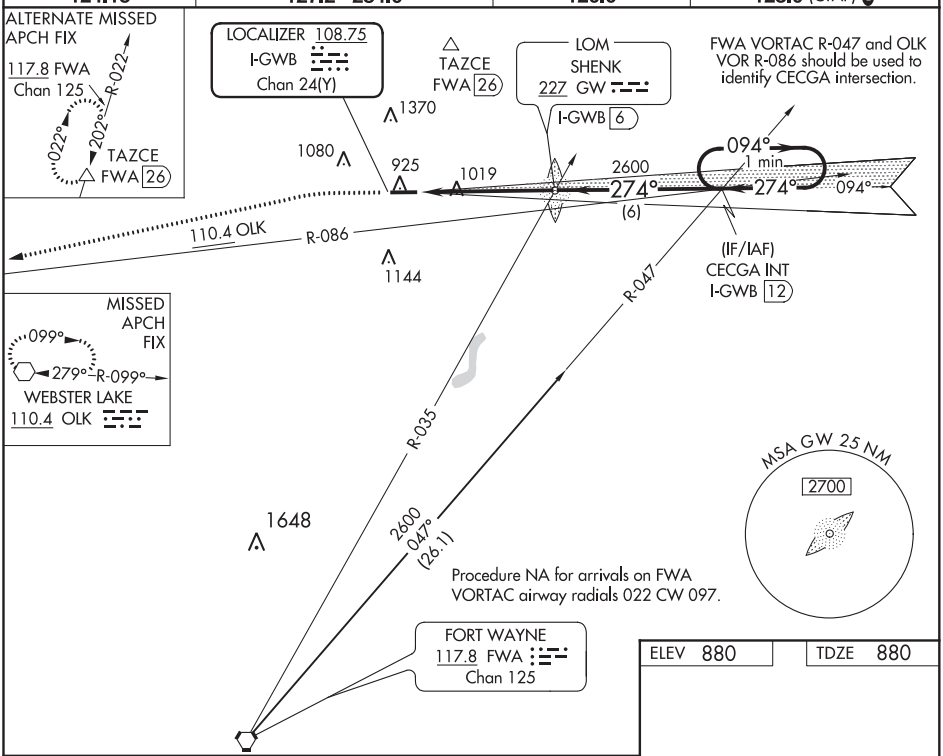
LOC/DME I-GWB	APP CRS	Rwy ldg 5000
108.75	274°	TDZE 880
Chan 24 (Y)		Apt Elev 880

T NA

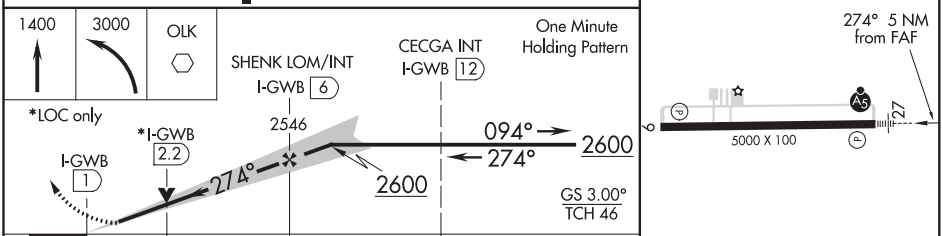
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct OLK VOR and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
124.15	127.2 284.6	126.6	123.0 (CTAF) L



ELEV 880	TDZE 880



CATEGORY	A	B	C	D
S-ILS 27	1080-½ 200 (200-½)			
S-LOC 27	1320-½ 440 (500-½)		1320-¾ 440 (500-¾)	1320-1 440 (500-1)
C CIRCLING	1320-1 440 (500-1)	1560-1 680 (700-1)	1720-2½ 840 (900-2½)	1720-2¾ 840 (900-2¾)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

AUBURN, INDIANA | AL-5266 (FAA) | 20366

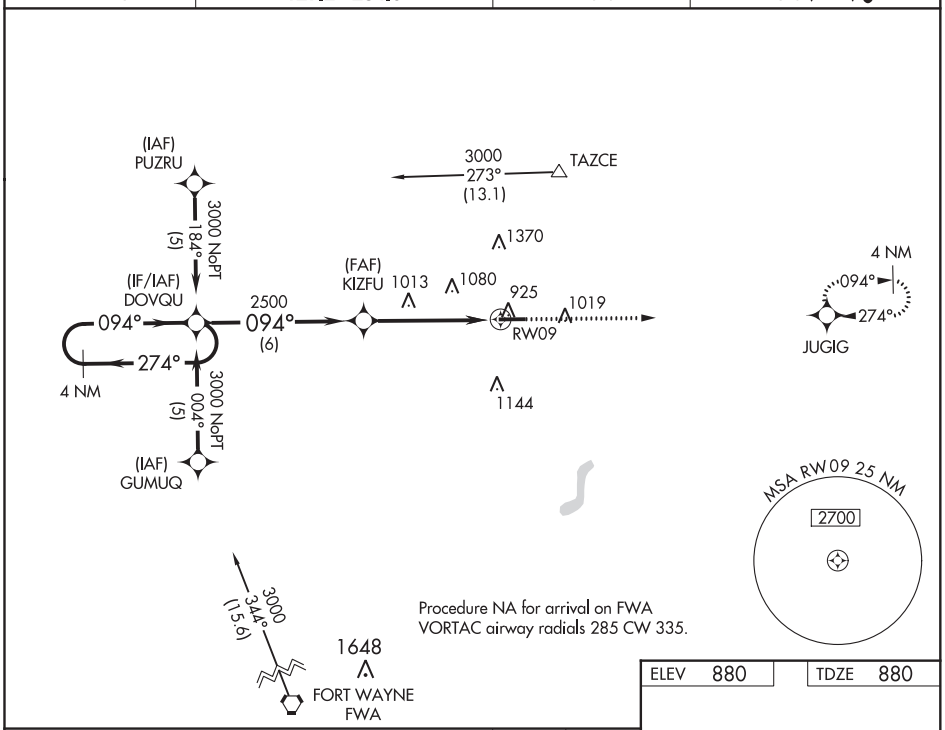
WAAS CH 40201 W09A	APP CRS 094°	Rwy ldg 5000 TDZE 880 Apt Elev 880

RNAV (GPS) RWY 9
DE KALB COUNTY (GWB)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

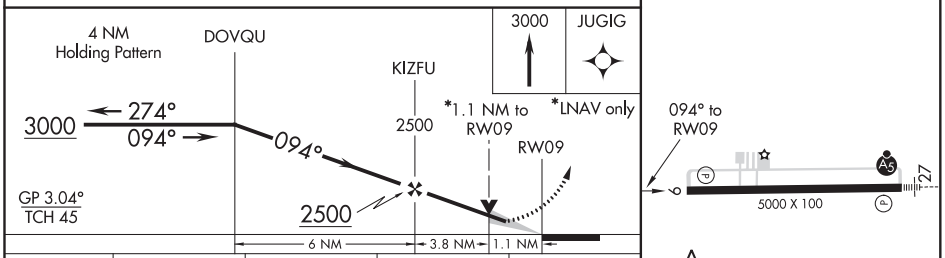
MISSED APPROACH: Climb to 3000 direct JUGIG and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
124.15	127.2 284.6	126.6	123.0 (CTAF) L



Procedure NA for arrival on FWA VORTAC airway radials 285 CW 335.

ELEV 880	TDZE 880



CATEGORY	A	B	C	D
LPV DA	1182-1 302 (400-1)			
LNAV/VNAV DA	1237-1¼ 357 (400-1¼)			
LNAV MDA	1280-1 400 (400-1)		1280-1⅛ 400 (400-1⅛)	1280-1¼ 400 (400-1¼)
C CIRCLING	1320-1 440 (500-1)	1560-1 680 (700-1)	1720-2½ 840 (900-2½)	1720-2¾ 840 (900-2¾)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86401 W27A	APP CRS 274°	Rwy ldg 5000 TDZE 880 Apt Elev 880

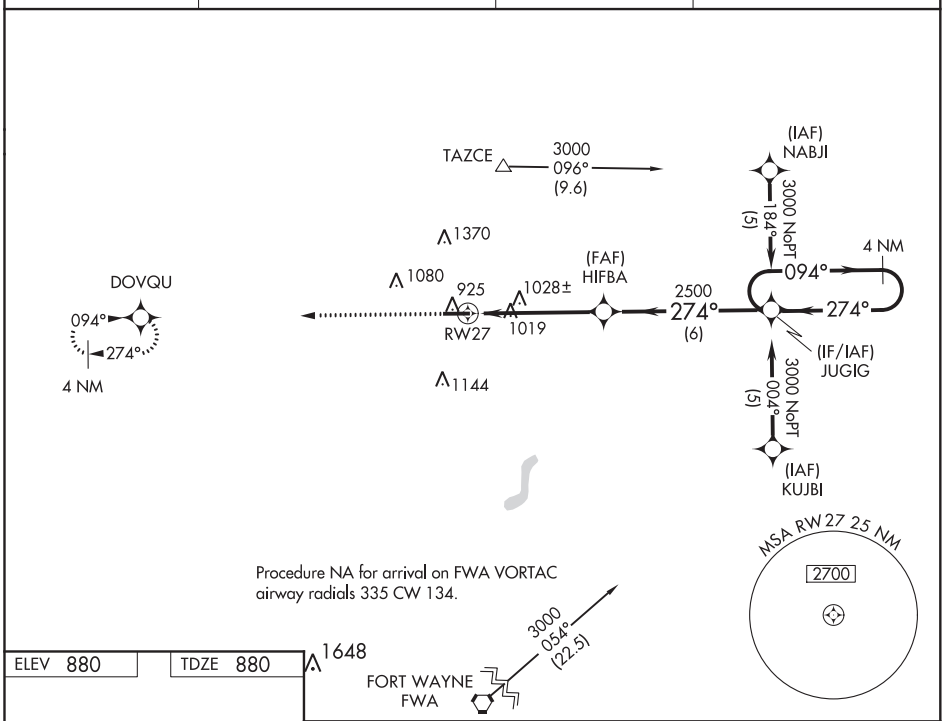
RNAV (GPS) RWY 27
DE KALB COUNTY (GWB)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

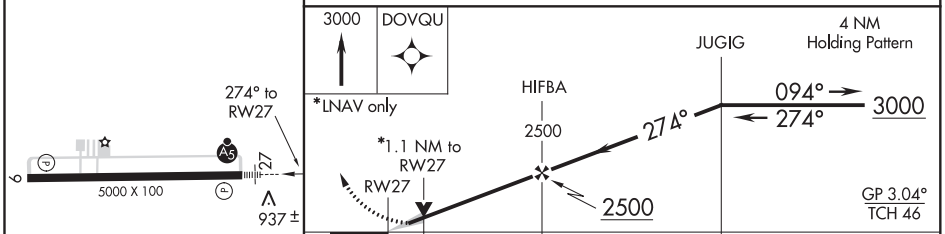
MALSR

MISSED APPROACH: Climb to 3000 direct DOVQU and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
124.15	127.2 284.6	126.6	123.0 (CTAF) L



ELEV 880	TDZE 880



CATEGORY	A	B	C	D
LPV DA	1130-½ 250 (300-½)			
LNAV/VNAV DA	1207-⅝ 327 (400-⅝)			
LNAV MDA	1280-½ 400 (400-½)		1280-¾ 400 (400-¾)	
C CIRCLING	1320-1 440 (500-1)	1560-1 680 (700-1)	1720-2½ 840 (900-2½)	1720-2¾ 840 (900-2¾)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

AUBURN, INDIANA | AL-5266 (FAA) | 20254

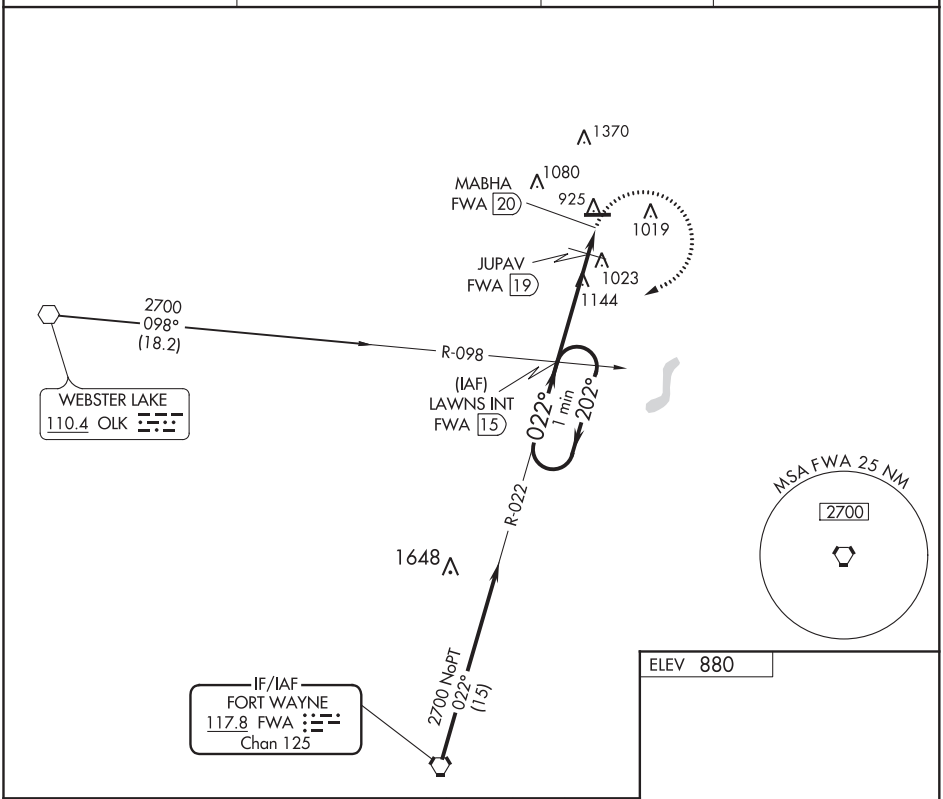
VOR-A

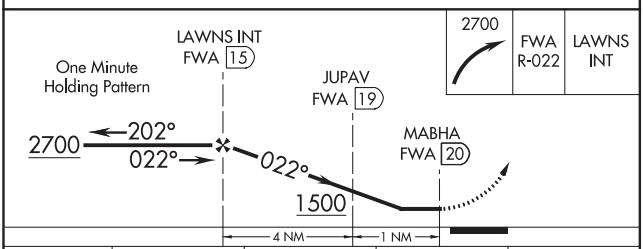
DE KALB COUNTY (GWB)

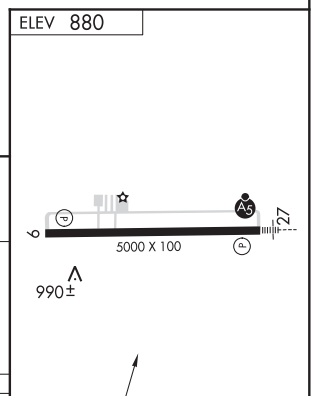
VORTAC FWA 117.8 Chan 125	APP CRS 022°	Rwy ldg N/A TDZE N/A Apt Elev 880

MISSED APPROACH: Climbing right turn to 2700 on FWA R-022 to LAWNS INT/FWA 15 DME and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
124.15	127.2 284.6	126.6	123.0 (CTAF) L







CATEGORY	A	B	C	D
C CIRCLING	1500-1 620 (700-1)	1560-1 680 (700-1)	1720-2½ 840 (900-2½)	1720-2¾ 840 (900-2¾)
JUPAV FIX MINIMUMS				
C CIRCLING	1360-1 480 (500-1)	1560-1 680 (700-1)	1720-2½ 840 (900-2½)	1720-2¾ 840 (900-2¾)

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

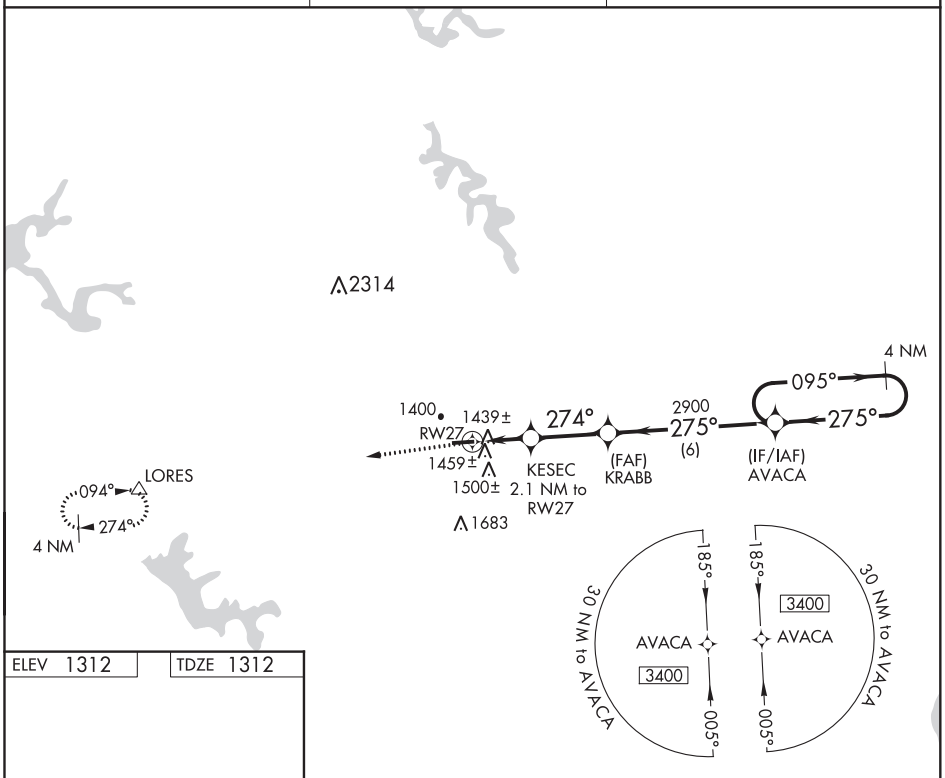
WAAS CH 70427 W27A	APP CRS 274°	Rwy ldg 4003 TDZE 1312 Apt Elev 1312

RNAV (GPS) RWY 27
BARNESVILLE-BRADFIELD (6G5)

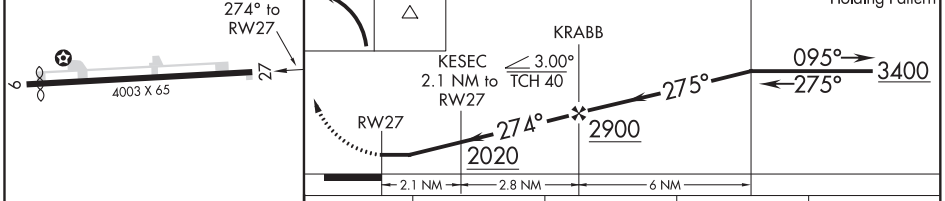
T A NA DME/DME RNP-0.3 NA. Procedure NA at night. Visibility reduction by helicopters NA. Use Wheeling, WV altimeter setting; When not received use Washington, PA altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 3000 direct LORES and hold.

HLG ASOS	CLEVELAND CENTER	UNICOM
127.375	126.95 239.30	123.0 (CTAF) L



ELEV 1312 TDZE 1312



CATEGORY	A	B	C	D
LP MDA	1780-1 468 (500-1)		NA	
LNAV MDA	1800-1 488 (500-1)		NA	
CIRCLING	1880-1 568 (600-1)	1940-1 628 (700-1)	NA	

MIRL Rwy 9-27 L
REIL Rwy 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BARNESVILLE, OHIO | AL-5632 (FAA) | 20086

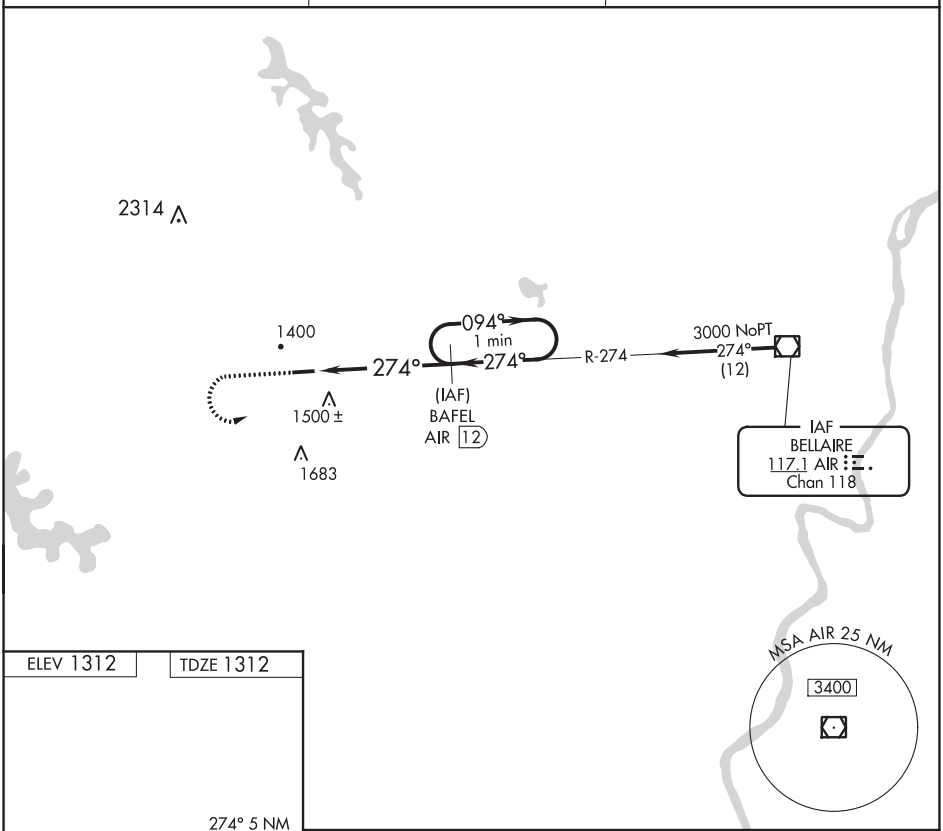
VOR/DME RWY 27
BARNESVILLE-BRADFIELD (6G5)

VOR/DME AIR	APP CRS	Rwy ldg	4003
117.1	274°	TDZE	1312
Chan 118		Apt Elev	1312

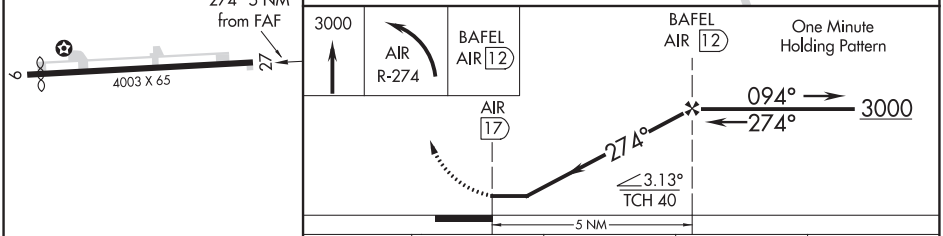
T
A NA — Use Wheeling, WV altimeter setting.

MISSED APPROACH: Climb to 3000, then left turn via AIR R-274 to BAFEL/12 DME and hold.

HLG ASOS	CLEVELAND CENTER	UNICOM
127.375	126.95 239.30	123.0 (CTAF) L



ELEV 1312 | TDZE 1312



CATEGORY	A	B	C	D
S-27	1880-1	568 (600-1)	NA	
CIRCLING	1880-1	568 (600-1)	NA	

MIRL Rwy 9-27 L
REIL Rwy 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

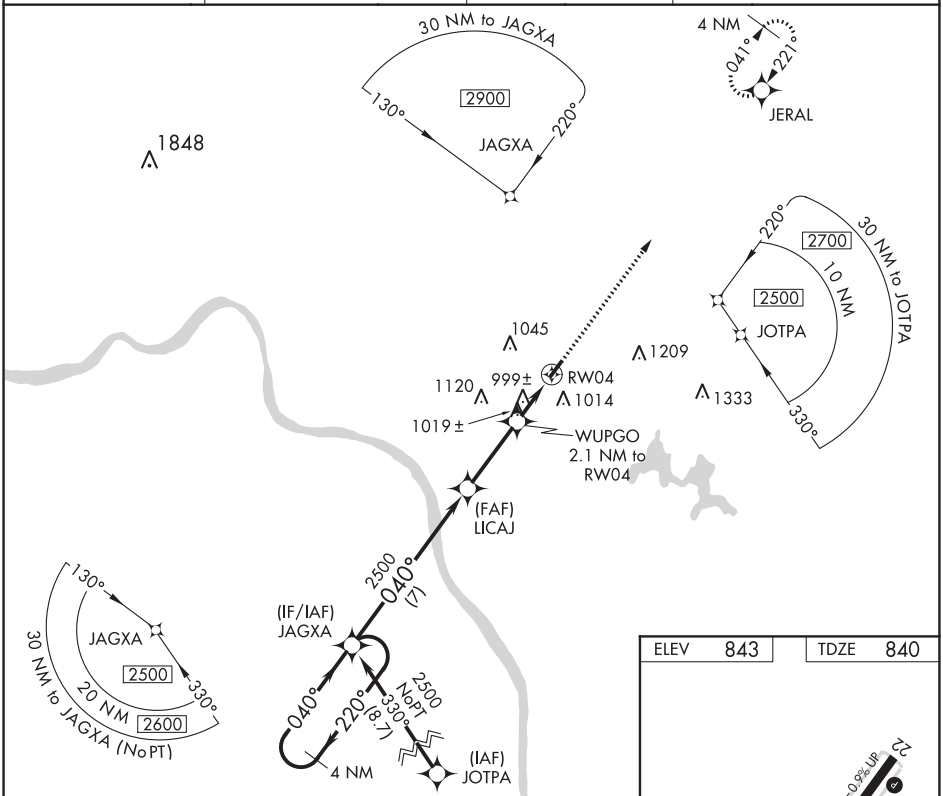
WAAS CH 58327 W04A	APP CRS 040°	Rwy ldg 3170 TDZE 840 Apt Elev 843

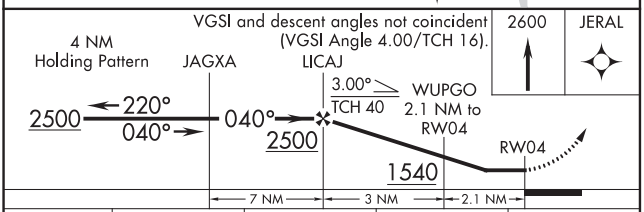
RNAV (GPS) RWY 4
CLERMONT COUNTY (I69)

Circling NA at night. Rwy 4/22 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Cincinnati Muni Airport Lunken Field altimeter setting and increase all MDA 80 feet and all Cat C visibilities ¼ SM.

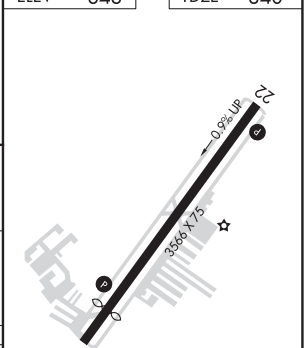
MISSED APPROACH: Climb to 2600 direct JERAL and hold.

AWOS-3	CINCINNATI APP CON	CLNC DEL	UNICOM
127.275	121.0 254.25	124.9	122.975 (CTAF)





CATEGORY	A	B	C	D
LP MDA	1300-1 460 (500-1)		1300-1⅜ 460 (500-1⅜)	NA
LNAV MDA	1320-1 480 (500-1)		1320-1⅜ 480 (500-1⅜)	NA
C CIRCLING	1360-1 517 (600-1)		1520-2 677 (700-2)	NA



EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BATAVIA, OHIO

AL-5955 (FAA)

21056

RNAV (GPS) RWY 22
CLERMONT COUNTY (I69)

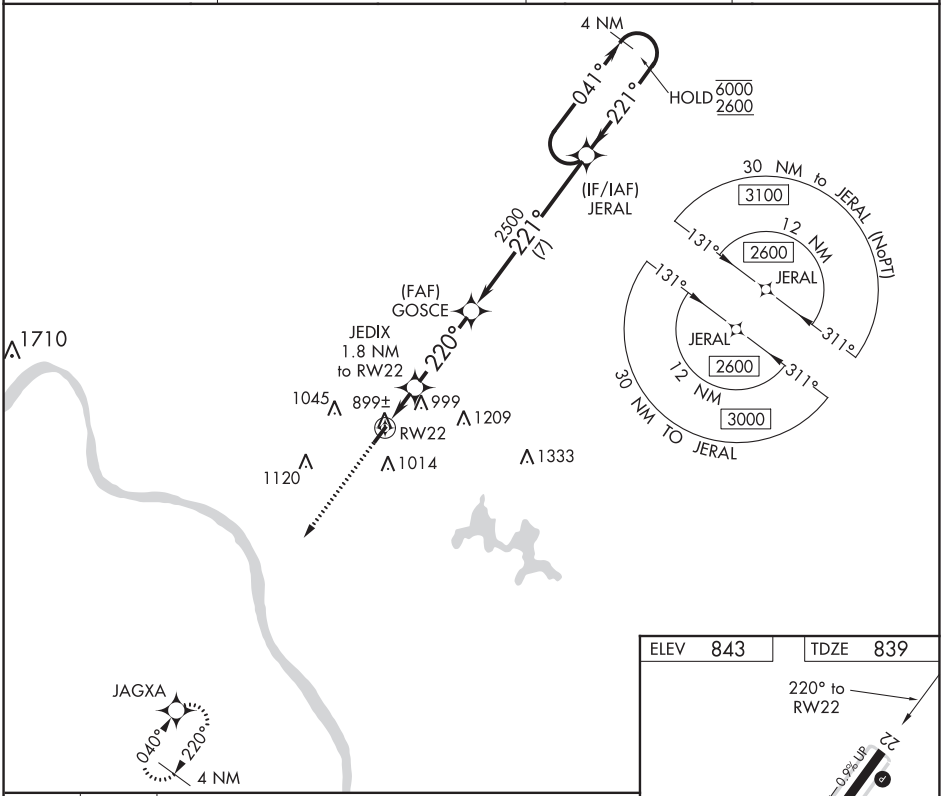
WAAS CH 82227 W22A	APP CRS 220°	Rwy ldg 3566 TDZE 839 Apt Elev 843

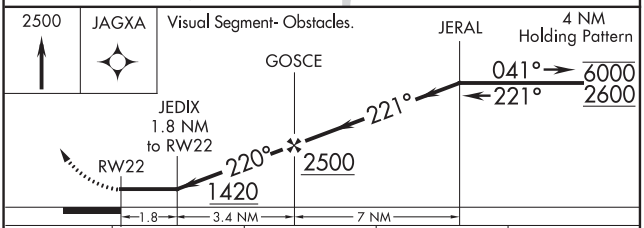
RNP APCH.

Circling Rwy 4 NA at night.
Rwy 22 helicopter visibility reduction below 1 SM NA.

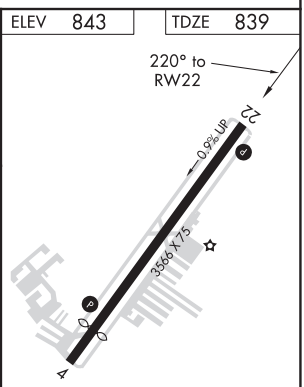
MISSED APPROACH: Climb to 2500 direct JAGXA and hold.

AWOS-3	CINCINNATI APP CON	CLNC DEL	UNICOM
127.275	121.0 254.25	124.9	122.975 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1160-1 321 (400-1)			NA
LNAV MDA	1240-1 401 (400-1)		1240-1⅛ 401 (400-1⅛)	NA
C CIRCLING	1320-1 477 (500-1)	1360-1 517 (600-1)	1520-2 677 (700-2)	NA



MIRL Rwy 4-22 L
REIL Rwys 4 and 22 L

EC-2, 25 FEB 2021 to 22 APR 2021

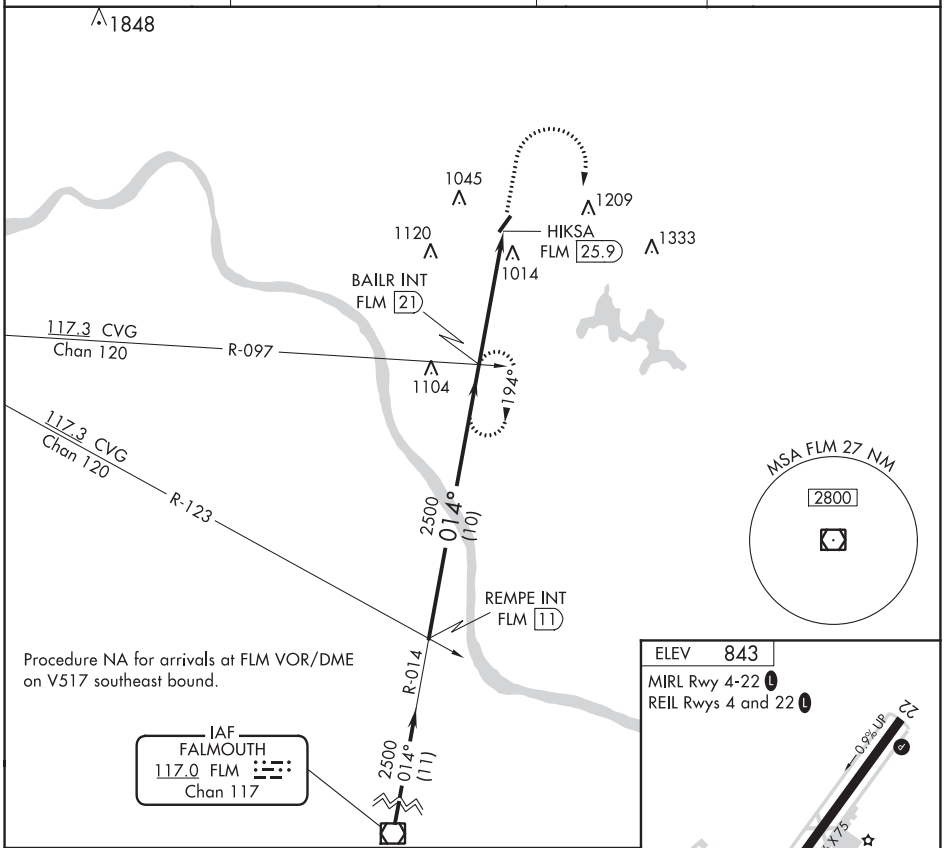
VOR-B
CLERMONT COUNTY (I69)

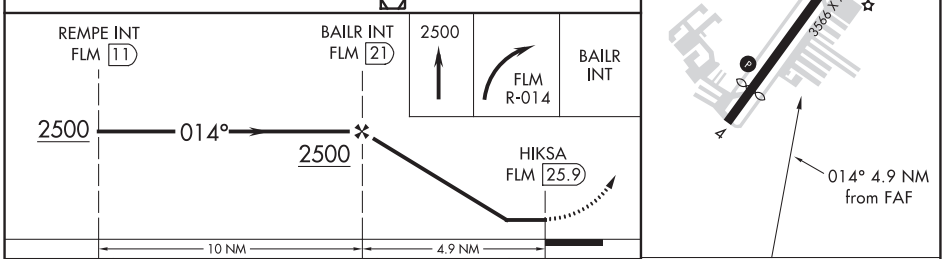
VOR/DME FLM	APP CRS	Rwy ldg	N/A
117.0	014°	TDZE	N/A
Chan 117		Apt Elev	843

Rwy 4/22 helicopter visibility reduction below 1 SM NA. Procedure NA at night. When local altimeter setting not received, use Cincinnati Muni Airport Lunken Field altimeter setting and increase all MDAs 80 feet and visibility Cat C ¼ SM.

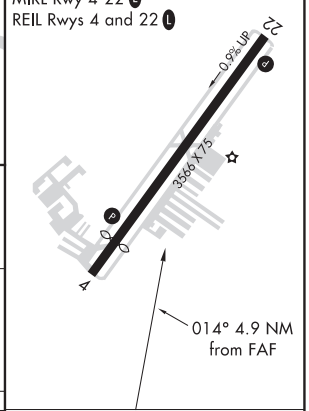
MISSED APPROACH: Climb to 2500 then right turn via FLM VOR/DME R-014 to BAILR INT/21 DME and hold.

AWOS-3	CINCINNATI APP CON	CLNC DEL	UNICOM
127.275	121.0 254.25	124.9	122.975 (CTAF) L





ELEV 843
MIRL Rwy 4-22 L
REIL Rwys 4 and 22 L



CATEGORY	A	B	C	D
C CIRCLING	1420-1 577 (600-1)	1420-1¼ 577 (600-1¼)	1520-2 677 (700-2)	NA

FAF to MAP 4.9 NM

Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

BEDFORD, INDIANA | AL-5546 (FAA) | 19199

WAAS CH 81925 W13A	APP CRS 133°	Rwy ldg 4501 TDZE 721 Apt Elev 727

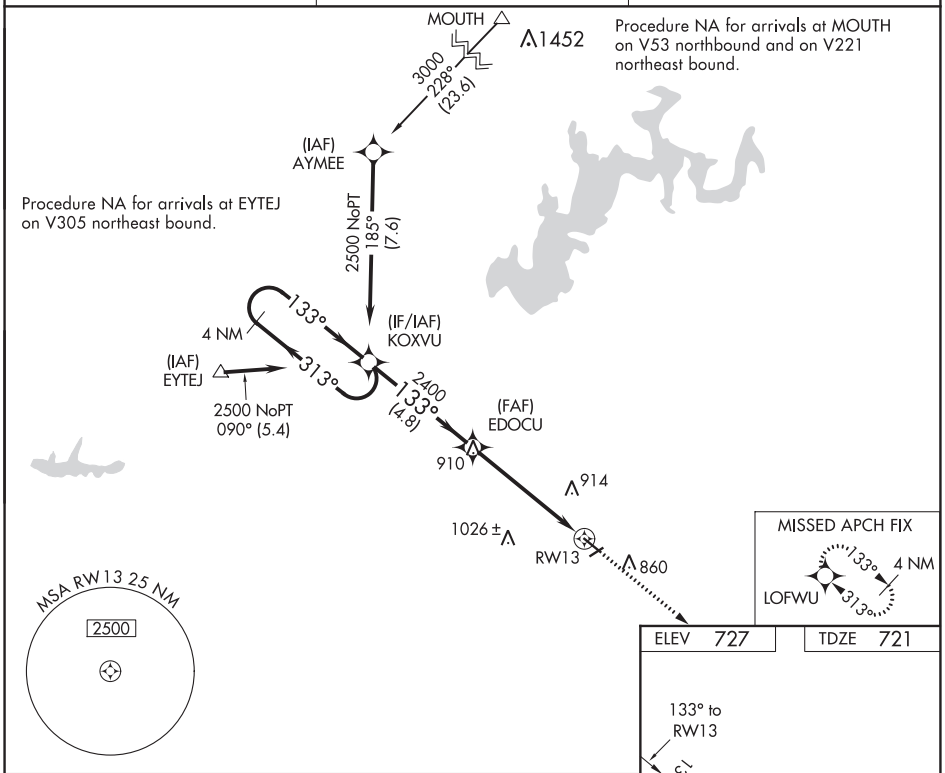
RNAV (GPS) RWY 13
VIRGIL I GRISSOM MUNI (BFR)

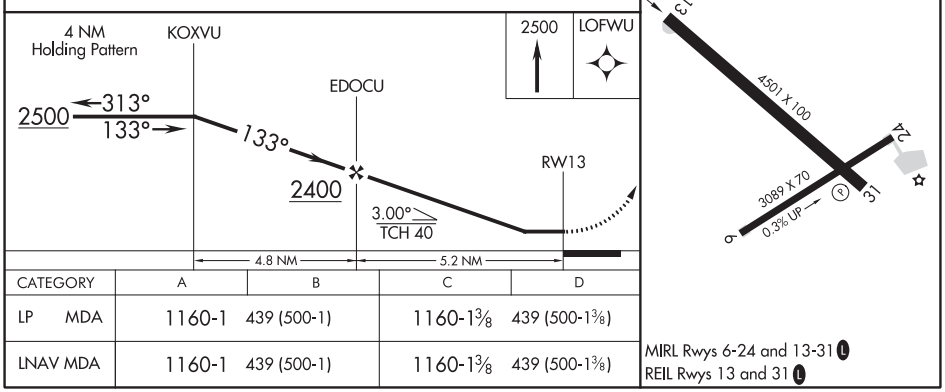
RNP APCH.

Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Bloomington altimeter setting and increase all MDA 80 feet and increase LP and LNAV Cats C and D visibility ⅛ mile. Procedure NA at night.

MISSED APPROACH: Climb to 2500 direct LOFWU and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.125	124.775 269.45	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1160-1 439 (500-1)		1160-1⅜ 439 (500-1⅜)	
LNAV MDA	1160-1 439 (500-1)		1160-1⅜ 439 (500-1⅜)	

MIRL Rwys 6-24 and 13-31 L
REIL Rwys 13 and 31 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

BEDFORD, INDIANA
Orig-B 18JUL19

38°50'N-86°27'W

VIRGIL I GRISSOM MUNI (BFR)
RNAV (GPS) RWY 13

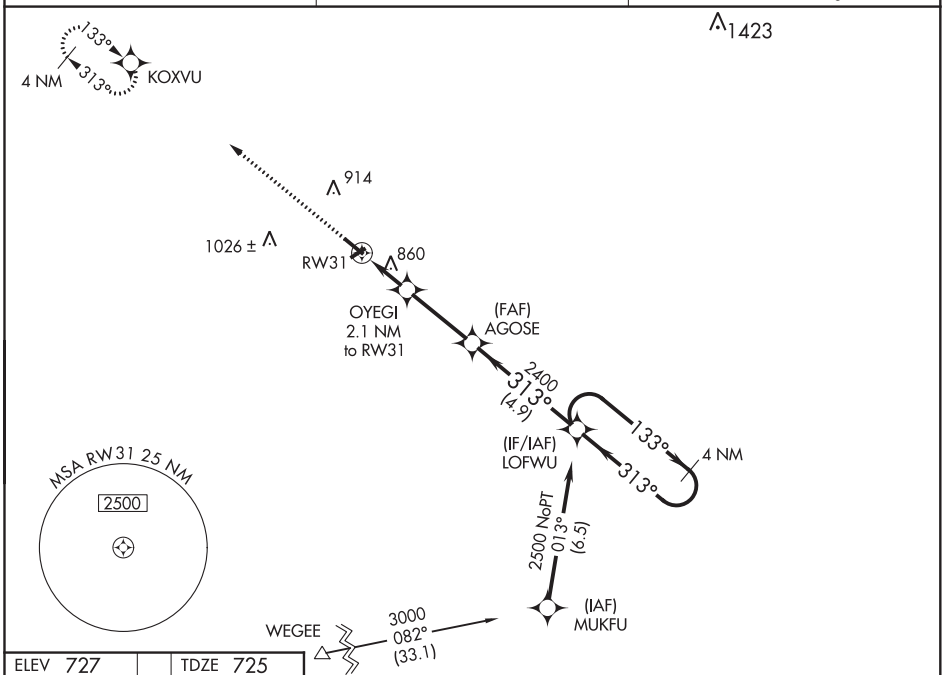
WAAS CH 97525 W31A	APP CRS 313°	Rwy ldg 4501 TDZE 725 Apt Elev 727

RNAV (GPS) RWY 31
VIRGIL I GRISSOM MUNI (BFR)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Bloomington altimeter setting and increase all MDA 80 feet; increase all Cat C/D visibilities ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

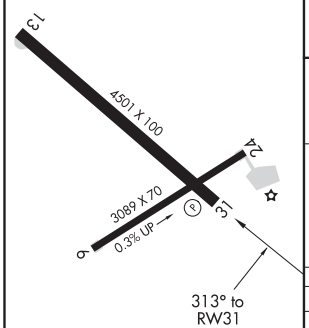
MISSED APPROACH: Climb to 2500 direct KOXVU and hold.

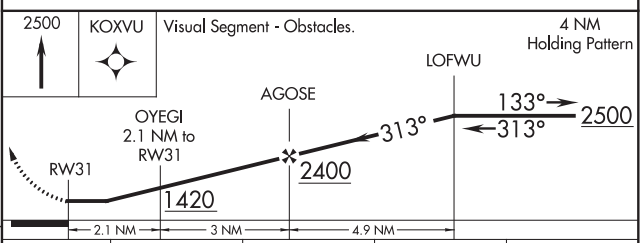
AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.125	124.775 269.45	122.8 (CTAF) L



ELEV 727	TDZE 725

Procedure NA for arrivals at WEGEE on V305 southwest bound.





CATEGORY	A	B	C	D
LP MDA	1160-1 435 (500-1)		1160-1¼ 435 (500-1¼)	
LNAV MDA	1180-1 455 (500-1)		1180-1⅜ 455 (500-1⅜)	
C CIRCLING	1220-1 493 (500-1)	1260-1 533 (600-1)	1380-1¾ 653 (700-1¾)	1380-2 653 (700-2)

MIRL Rwys 6-24 and 13-31 L
REIL Rwys 13 and 31 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BEDFORD, INDIANA | AL-5546 (FAA) | 20254

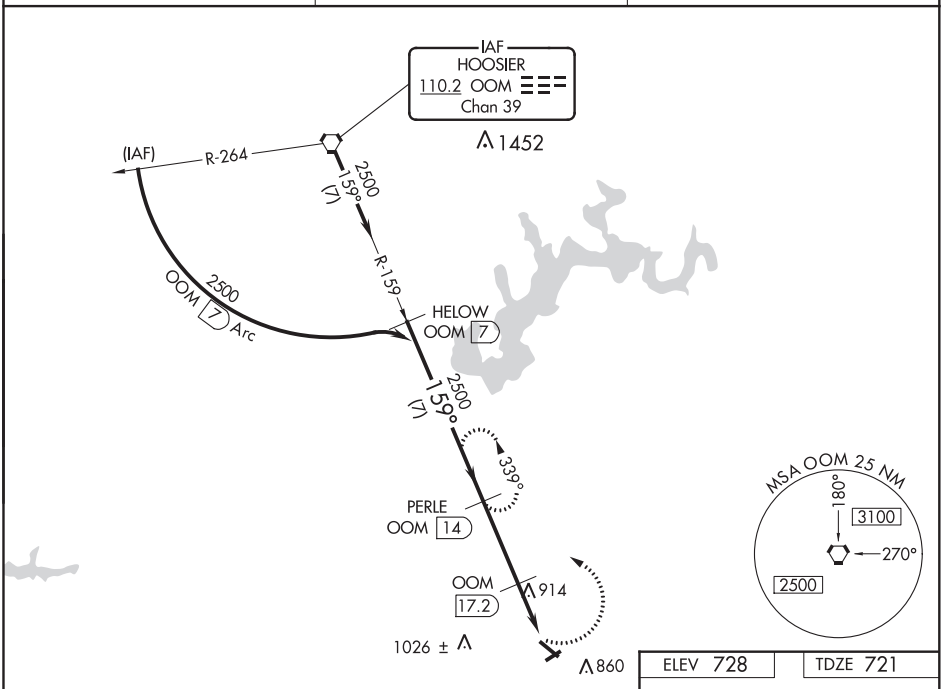
VOR/DME RWY 13
VIRGIL I GRISSOM MUNI (BFR)

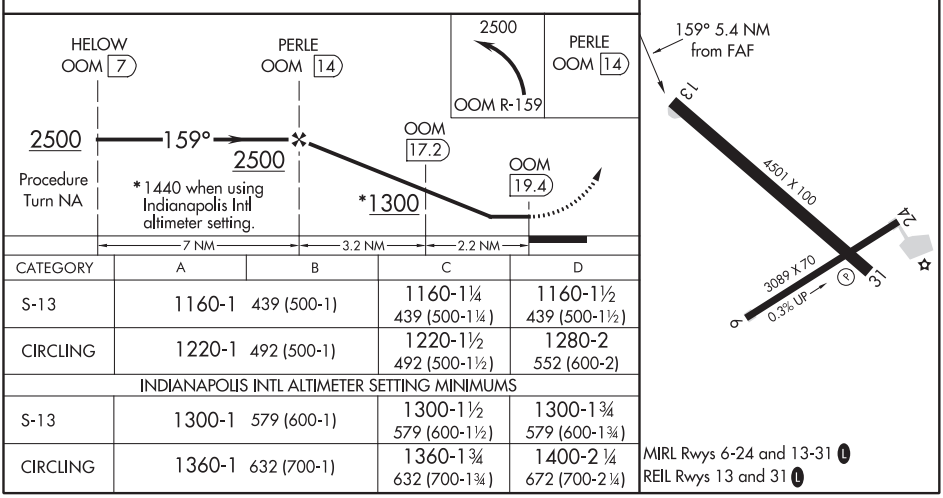
VORTAC OOM	APP CRS	Rwy ldg	4501
110.2	159°	TDZE	721
Chan 39		Apt Elev	728

Obtain local altimeter setting on CTAF; when not received, use Indianapolis Intl altimeter setting. Procedure NA at night. Rwy 13 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 2500 via OOM R-159 to PERLE 14 DME and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.125	124.775 269.45	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-13	1160-1 439 (500-1)		1160-1¼ 439 (500-1¼)	1160-1½ 439 (500-1½)
CIRCLING	1220-1 492 (500-1)		1220-1½ 492 (500-1½)	1280-2 552 (600-2)
INDIANAPOLIS INTL ALTIMETER SETTING MINIMUMS				
S-13	1300-1 579 (600-1)		1300-1½ 579 (600-1½)	1300-1¾ 579 (600-1¾)
CIRCLING	1360-1 632 (700-1)		1360-1¾ 632 (700-1¾)	1400-2¼ 672 (700-2¼)

BEDFORD, INDIANA
Amdt 10C 30JAN20

38°50'N-86°27'W

VIRGIL I GRISSOM MUNI (BFR)
VOR/DME RWY 13

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 42628 W07A	APP CRS 074°	Rwy ldg 5000 TDZE 1112 Apt Elev 1122

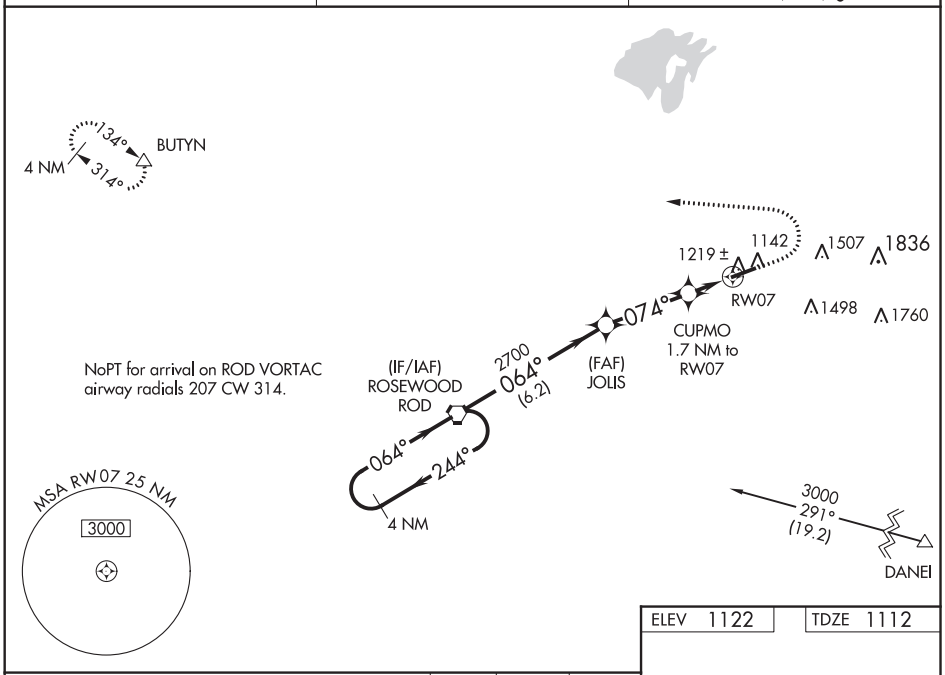
RNAV (GPS) RWY 7
BELLEFONTAINE RGNL (EDJ)

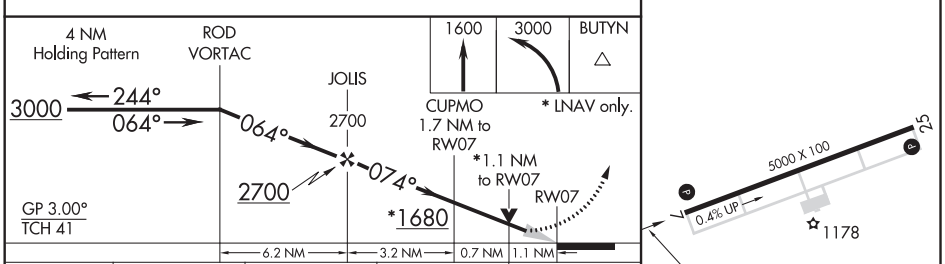
T
NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 37°C (98°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA with James M. Cox Dayton Intl altimeter setting. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting and increase all DA 94 feet and all MDA 100 feet and increase LPV and LNAV/VNAV all Cats visibility ¼ mile, LNAV Cats C and D visibility ⅜ mile, and Circling Cats C and D visibility ¼ mile.

MISSED APPROACH: Climb to 1600 then climbing left turn to 3000 direct BUTYN and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.075	118.425 294.5	122.8 (CTAF) L





ELEV 1122 TDZE 1112

CATEGORY	A	B	C	D
LPV DA	1362-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1504-1⅜ 392 (400-1⅜)			
LNAV MDA	1480-1 368 (400-1)			
CIRCLING	1620-1 498 (500-1)	1640-1 518 (600-1)	1640-1½ 518 (600-1½)	1720-2 598 (600-2)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BELLEFONTAINE, OHIO | AL-10242 (FAA) | 19059

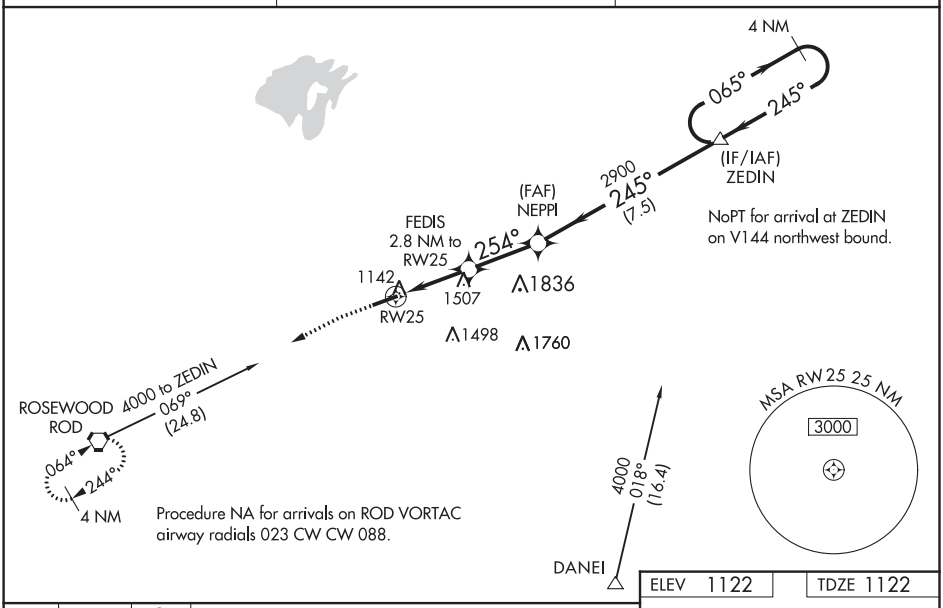
WAAS CH 93628 W25A	APP CRS 254°	Rwy ldg 5000 TDZE 1122 Apt Elev 1122

RNAV (GPS) RWY 25
BELLEFONTAINE RGNL (EDJ)

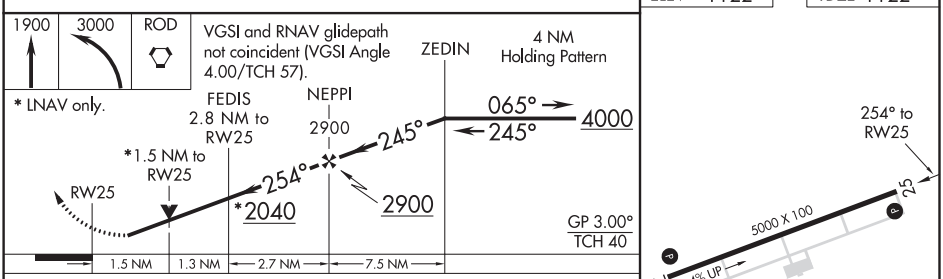
NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 36°C (96°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting and increase all DA 94 feet and increase all MDA 100 feet and increase LPV and LNAV/VNAV visibility all Cats ⅜ mile and increase LNAV Cat B and Circling Cat B visibility ¼ mile and increase LNAV Cats C and D visibility ½ mile and increase Circling Cat C visibility ½ mile and increase Circling Cat D visibility ¼ mile. VDP and Baro-VNAV NA with James M. Cox Dayton Intl altimeter setting.

MISSED APPROACH: Climb to 1900 then climbing left turn to 3000 direct ROD VORTAC and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.075	118.425 294.5	122.8 (CTAF) L



ELEV 1122	TDZE 1122



CATEGORY	A	B	C	D
LPV DA	1457-1⅛ 335 (400-1⅛)			
LNAV/VNAV DA	1664-1⅞ 542 (600-1⅞)			
LNAV MDA	1820-1 698 (700-1)		1820-2 698 (700-2)	
CIRCLING	1820-1 698 (700-1)		1820-2 698 (700-2)	1820-2¼ 698 (700-2¼)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VORTAC ROD	APP CRS	Rwy ldg	5000
117.5	249°	TDZE	1122
Chan 122		Apt Elev	1122

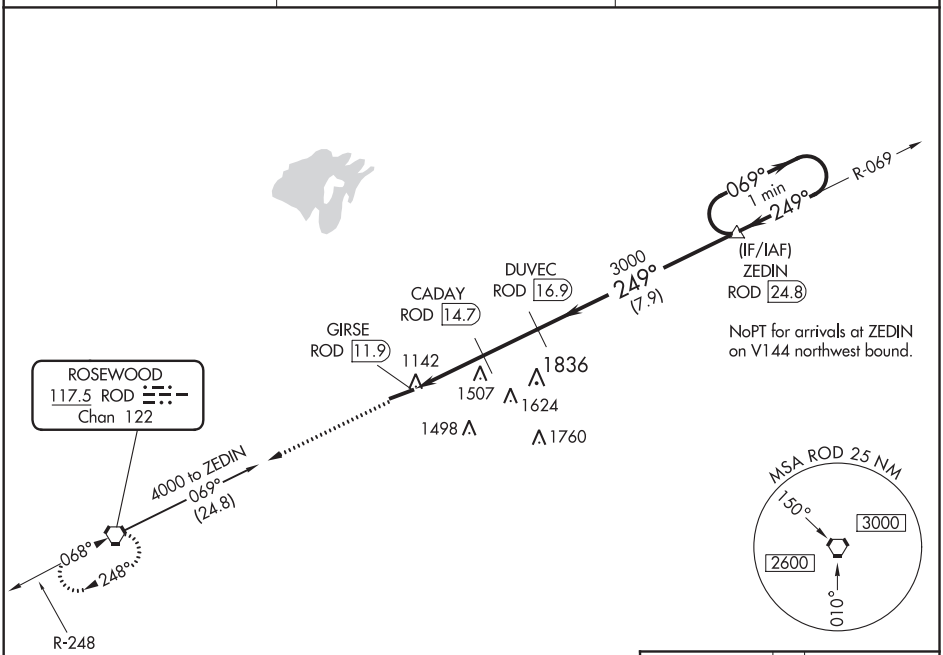
VOR/DME RWY 25
BELLEFONTAINE RGNL (EDJ)

T
A NA

Visibility reduction by helicopters NA. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting.
VDP NA with James M. Cox Dayton Intl altimeter setting.

MISSED APPROACH: Climb to 3000 direct ROD VORTAC and hold.

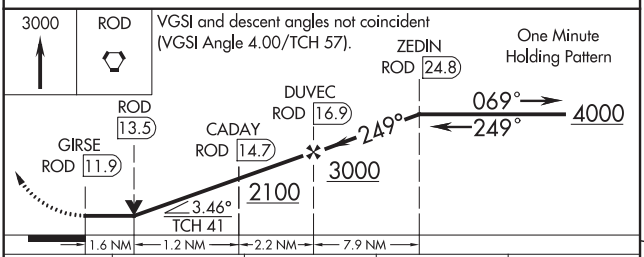
AWOS-3	COLUMBUS APP CON	UNICOM
118.075	118.425 294.5	122.8 (CTAF) L

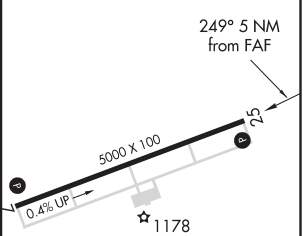


EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ELEV 1122	TDZE 1122





CATEGORY	A	B	C	D
S-25	1860-1 738 (800-1)		1860-2 738 (800-2)	1860-2¼ 738 (800-2¼)
CIRCLING	1860-1 738 (800-1)		1860-2 738 (800-2)	1860-2¼ 738 (800-2¼)
JAMES M. COX DAYTON INTL. ALTIMETER SETTING MINIMUMS				
S-25	1940-1 818 (900-1)	1940-1¼ 818 (900-1¼)	1940-2½ 818 (900-2½)	1940-2¾ 818 (900-2¾)
CIRCLING	1940-1 818 (900-1)	1940-1¼ 818 (900-1¼)	1940-2½ 818 (900-2½)	1940-2¾ 818 (900-2¾)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

BELLEFONTAINE, OHIO | AL-10242 (FAA) | 20086

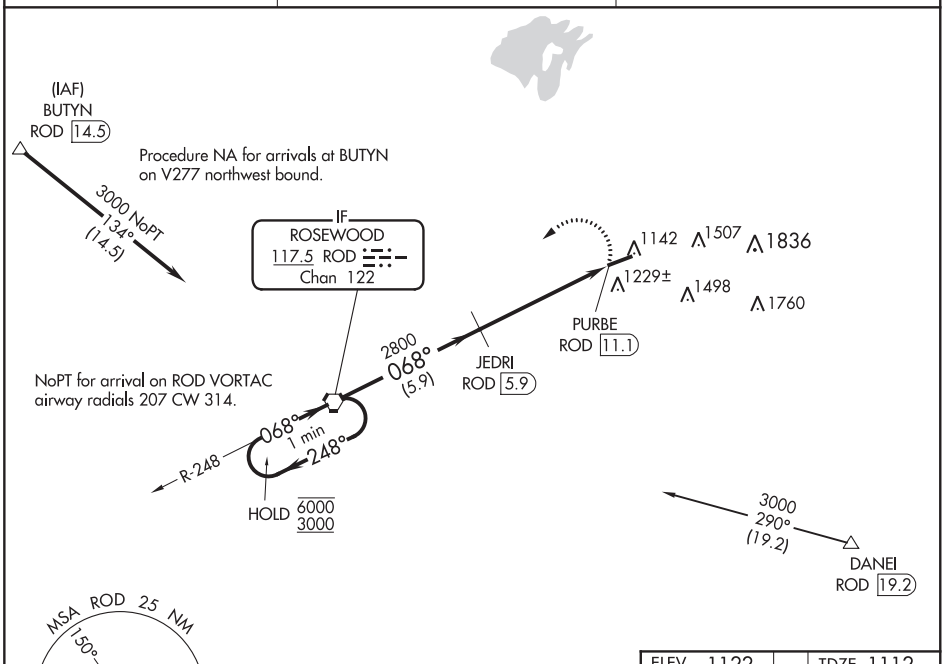
VOR RWY 7
BELLEFONTAINE RGNL (EDJ)

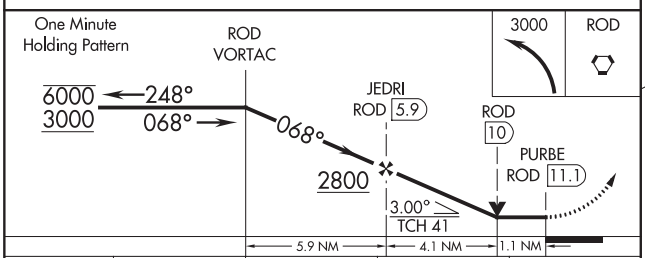
VORTAC ROD	APP CRS	Rwy ldg	5000
117.5	068°	TDZE	1112
Chan 122		Apt Elev	1122

DME required.

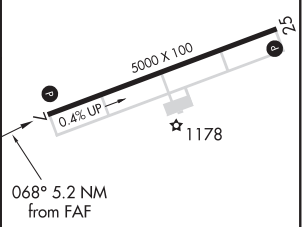
MISSED APPROACH: Climbing left turn to 3000 direct ROD VORTAC and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.075	118.425 294.5	122.8 (CTAF) L





ELEV 1122	TDZE 1112



CATEGORY	A	B	C	D
S-7	1480-1 368 (400-1)			1480-1¼ 368 (400-1¼)
CIRCLING	1540-1 418 (500-1)	1640-1 518 (600-1)	1640-1½ 518 (600-1½)	1720-2 598 (600-2)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-BMG	APP CRS	Rwy ldg	6500
108.3	354°	TDZE	844
		Apt Elev	846

ILS or LOC/DME RWY 35

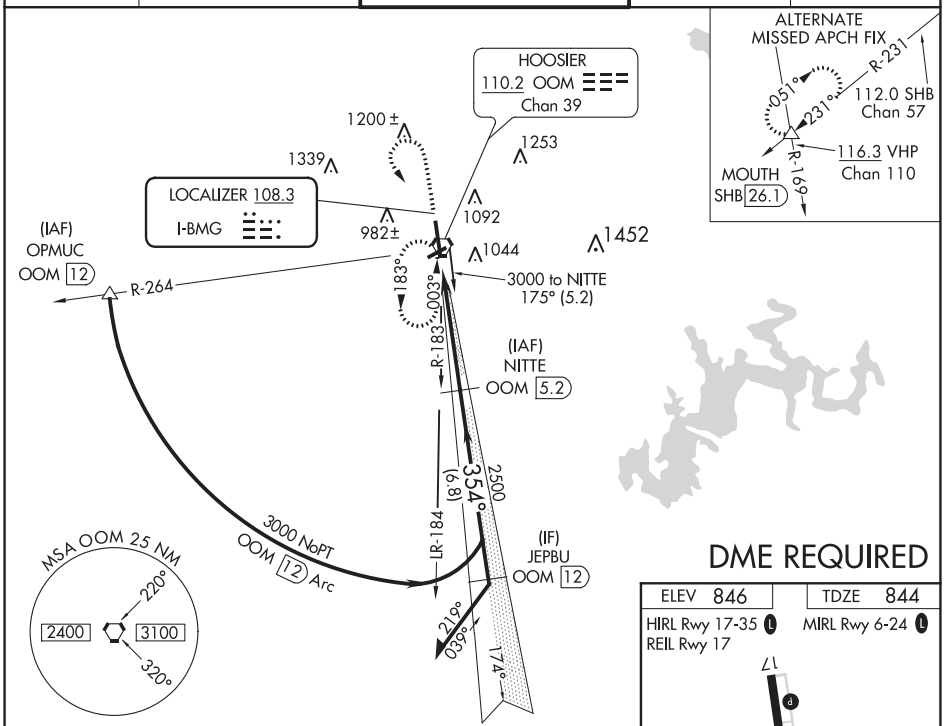
MONROE COUNTY (BMG)

Circling to Rwy 6/24 NA at night. When local altimeter setting not received, use Terre Haute Rgnl altimeter setting and increase all DA 121 feet and all MDA 140 feet and increase S-ILS 35 all Cats visibility ¼ mile, S-LOC 35 Cat C, D and Circling Cat C visibility ½ mile and Circling Cat D visibility ¼ mile. For inoperative MALSR when using Terre Haute Rgnl altimeter setting: increase S-ILS 35 all Cats visibility to 1¼ miles. DME from OOM VORTAC. Simultaneous reception of I-BMG and OOM DME required.

MALSR

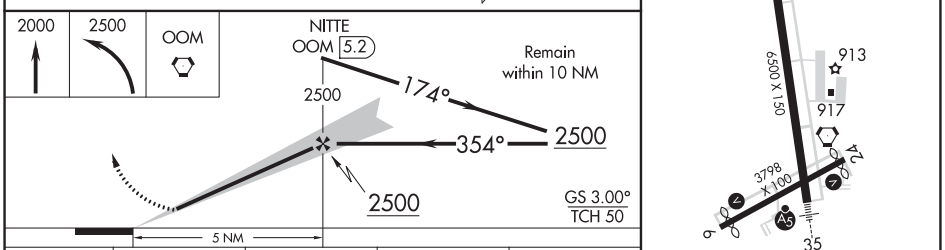
MISSED APPROACH: Climb to 2000 then climbing left turn to 2500 direct OOM VORTAC and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER ★	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95



DME REQUIRED

ELEV 846	TDZE 844
HIRL Rwy 17-35 L	MIRL Rwy 6-24 L
REIL Rwy 17	



CATEGORY	A	B	C	D
S-ILS 35	1044-½ 200 (200-½)			
S-LOC 35	1420-½ 576 (600-½)		1420-1 576 (600-1)	1420-1¼ 576 (600-1¼)
CIRCLING	1420-1 574 (600-1)		1420-1½ 574 (600-1½)	1420-2 574 (600-2)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

EC-2, 25 FEB 2021 to 22 APR 2021

BLOOMINGTON, INDIANA | AL-5168 (FAA) | 21056

APP CRS	Rwy ldg	3494
064°	TDZE	840
	Apt Elev	846

RNAV (GPS) RWY 6
MONROE COUNTY (BMG)

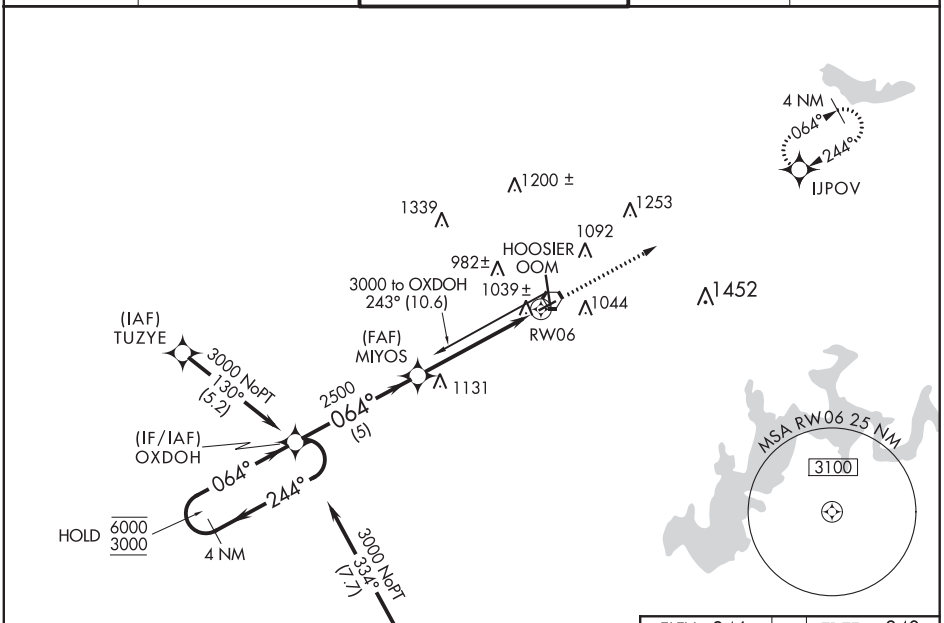
RNP APCH.

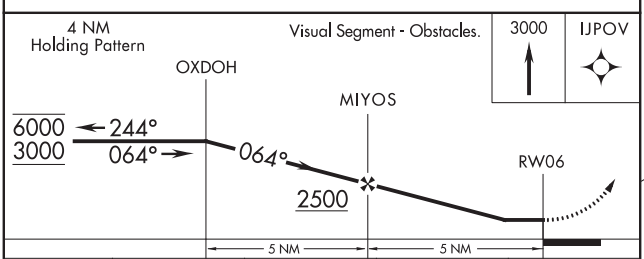
NA

Procedure NA at night.
Rwy 6 helicopter visibility reduction below 1 SM NA.

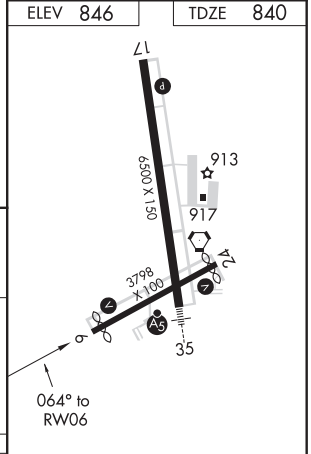
MISSED APPROACH: Climb to 3000 direct IJPOV and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER ★	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95





CATEGORY	A	B	C	D
LNAV MDA	1300-1 460 (500-1)		1300-1¼ 460 (500-1¼)	1300-1½ 460 (500-1½)



MIRL Rwy 6-24 L
HIRL Rwy 17-35 L
REIL Rwy 17

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 56412 W17A	APP CRS 174°	Rwy ldg 6500 TDZE 845 Apt Elev 846

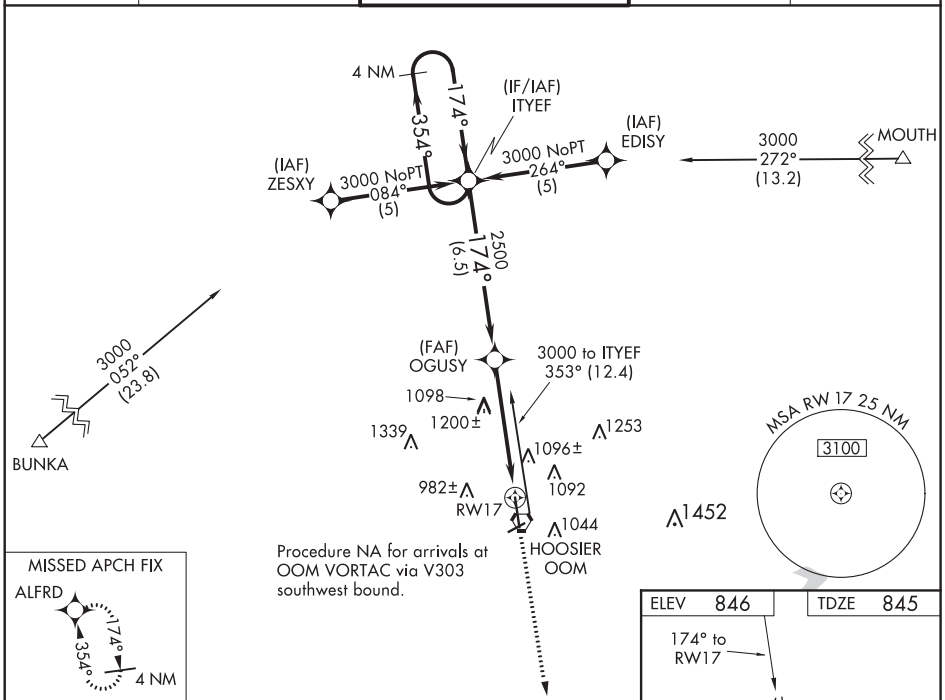
RNAV (GPS) RWY 17
MONROE COUNTY (BMG)

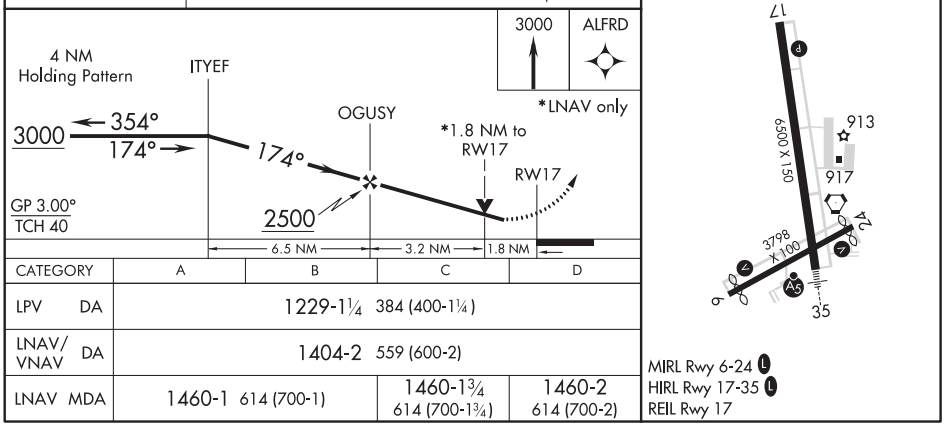
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Rwy 17 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Terre Haute Rgnl altimeter setting and increase all DA 121 feet and all MDA 140 feet. Increase LPV all Cats, LNAV/VNAV all Cats, LNAV Cat C/D visibility ½ mile.

MISSED APPROACH: Climb to 3000 direct ALFRD and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER*	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	1229-1¼ 384 (400-1¼)			
LNAV/VNAV DA	1404-2 559 (600-2)			
LNAV MDA	1460-1 614 (700-1)		1460-1¾ 614 (700-1¾)	1460-2 614 (700-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

BLOOMINGTON, INDIANA | AL-5168 (FAA) | 21056

RNAV (GPS) RWY 24
MONROE COUNTY (BMG)

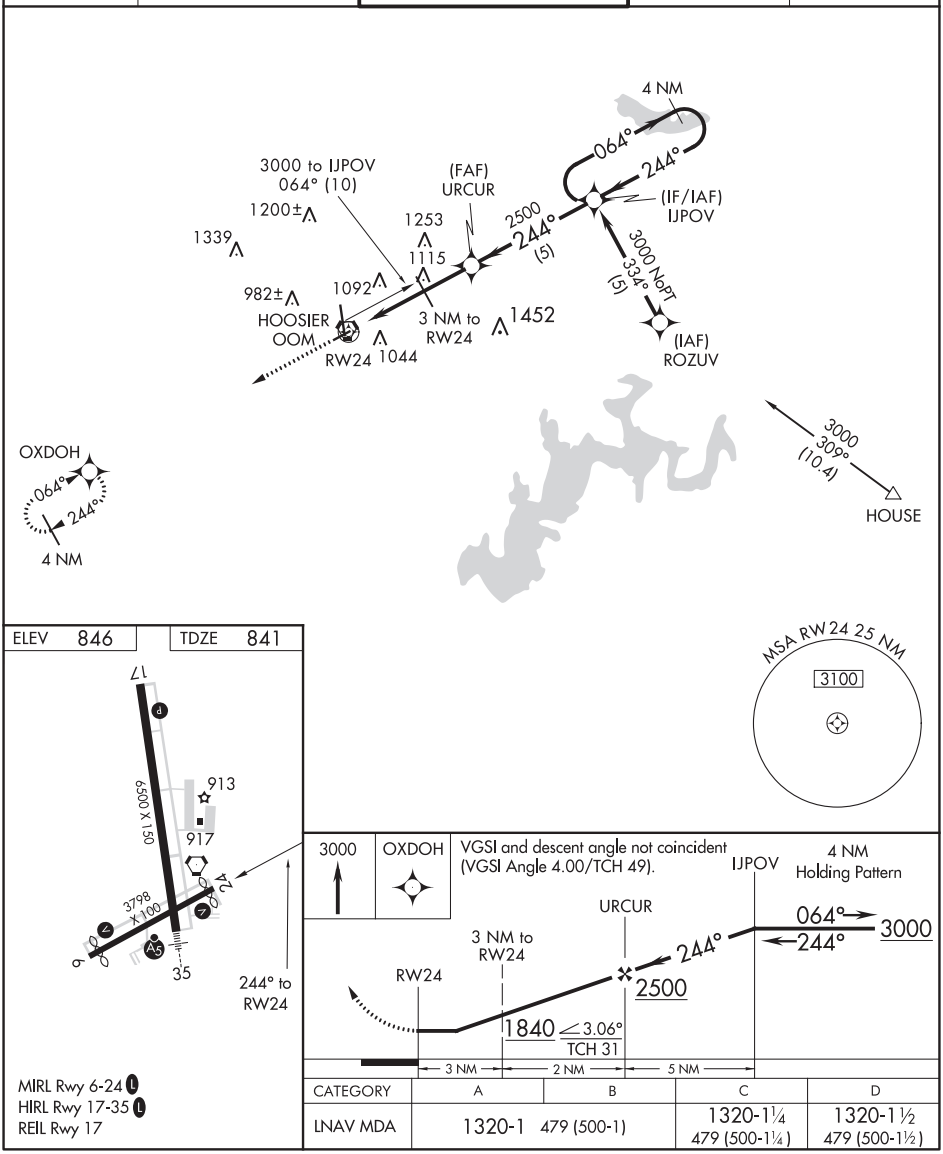
APP CRS	Rwy ldg	3576
244°	TDZE	841
	Apt Elev	846

RNP APCH.

Rwy 24 helicopter visibility reduction below 1 SM NA. Procedure NA at night. When local altimeter setting not received use Terre Haute Rgnl altimeter setting and increase all MDA 140 feet; increase LNAV Cat C/D ¼ mile.

MISSED APPROACH: Climb to 3000 direct OXDOH WP and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER ★	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95



MIRL Rwy 6-24 L
HIRL Rwy 17-35 L
REIL Rwy 17

CATEGORY	A	B	C	D
LNAV MDA	1320-1 479 (500-1)		1320-1¼ 479 (500-1¼)	1320-1½ 479 (500-1½)

BLOOMINGTON, INDIANA
Orig-C 18JUL19

39°09′N-86°37′W

MONROE COUNTY (BMG)
RNAV (GPS) RWY 24

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 72812 W35A	APP CRS 354°	Rwy ldg 6500 TDZE 844 Apt Elev 846

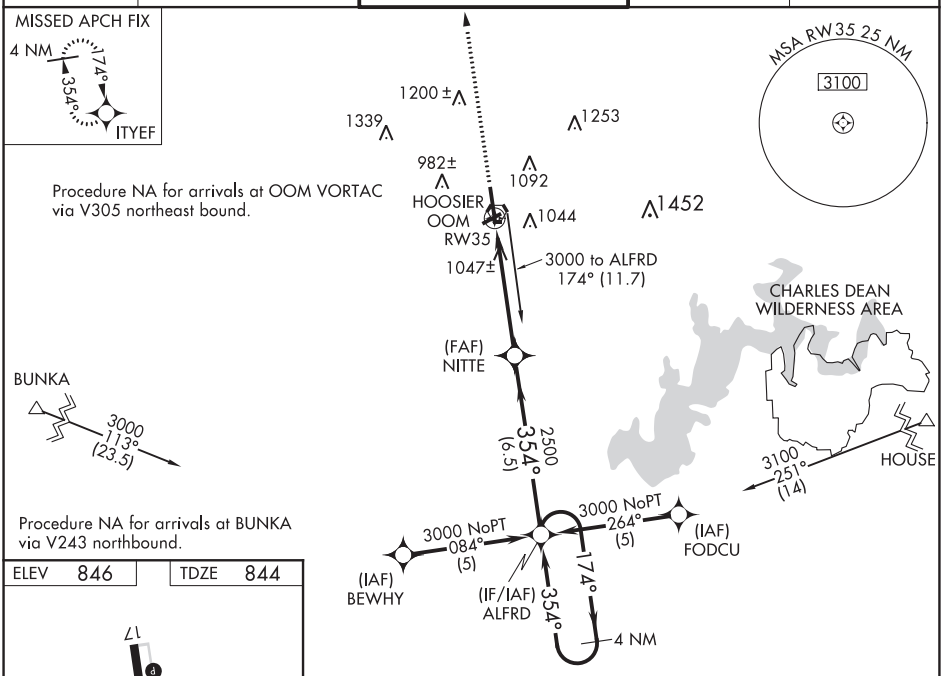
RNAV (GPS) RWY 35
MONROE COUNTY (BMG)

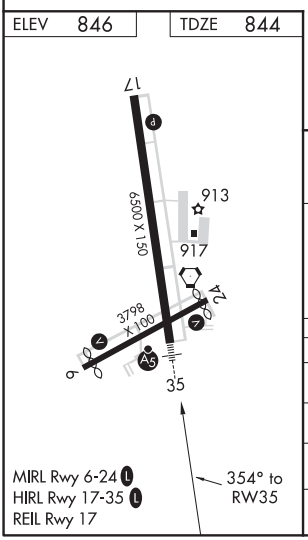
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Terre Haute Rgnl altimeter setting and increase all DA 121 feet and all MDA 140 feet and increase LPV all Cats, LNAV Cat C, D and Circling Cat D visibility ¼ mile, LNAV/VNAV all Cats and Circling C visibility ½ mile. For inoperative MALSR when using Terre Haute Rgnl altimeter setting: increase LPV all Cats visibility ½ mile. Baro-VNAV and VDP NA when using Terre Haute Rgnl altimeter setting. Circling to Rwy 6/24 NA at night.

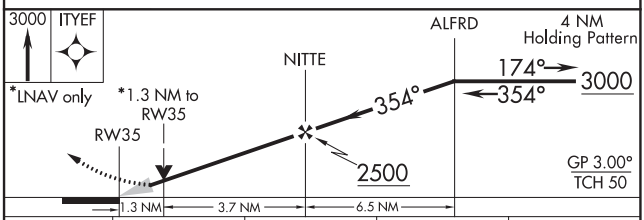
MALSR

MISSED APPROACH: Climb to 3000 direct ITYEF and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER*	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95







CATEGORY	A	B	C	D
LPV DA	1044-½ 200 (200-½)			
LNAV/VNAV DA	1344-1¼ 500 (500-1¼)			
LNAV MDA	1300-½ 456 (500-½)		1300-¾ 456 (500-¾)	1300-1 456 (500-1)
CIRCLING	1380-1 534 (600-1)	1400-1 554 (600-1)	1400-1½ 554 (600-1½)	1400-2 554 (600-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

BLOOMINGTON, INDIANA | AL-5168 (FAA) | 21056

VOR/DME RWY 6

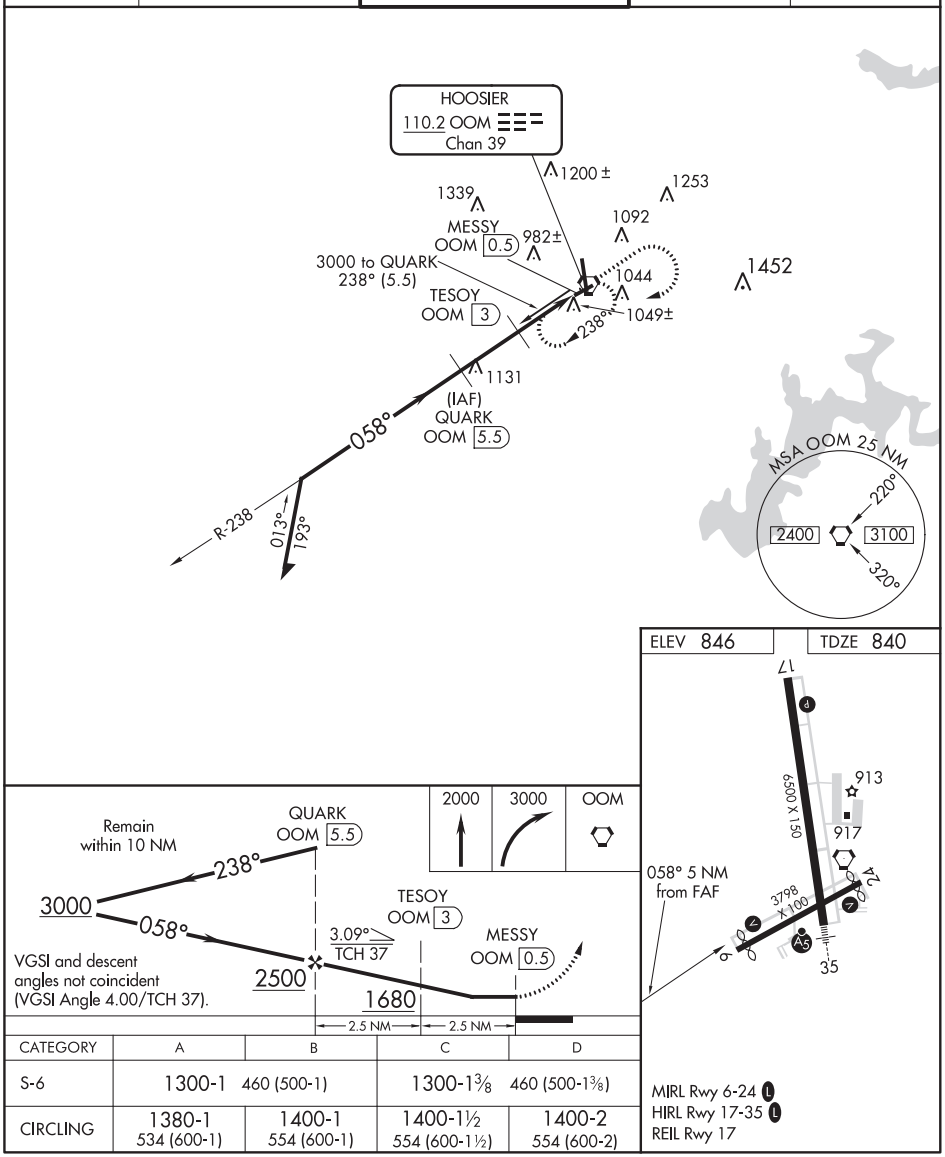
MONROE COUNTY (BMG)

VORTAC OOM	APP CRS	Rwy ldg	3494
110.2	058°	TDZE	840
Chan 39		Apt Elev	846

T A Rwy 6 Straight-in and Circling and Circling to Rwy 24 NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Terre Haute Rgnl altimeter setting and increase all MDA 140 feet and S-6 Cat C and D visibility ⅜ mile, Circling Cat C visibility ½ mile, and Circling Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct OOM VORTAC and hold.

ASOS	HULMAN APP CON	BLOOMINGTON TOWER ★	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95



CATEGORY	A	B	C	D
S-6	1300-1 460 (500-1)		1300-1⅜ 460 (500-1⅜)	
CIRCLING	1380-1 534 (600-1)	1400-1 554 (600-1)	1400-1½ 554 (600-1½)	1400-2 554 (600-2)

BLOOMINGTON, INDIANA
Amdt 19B 25JUN15

39°09′N - 86°37′W

MONROE COUNTY (BMG)

VOR/DME RWY 6

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

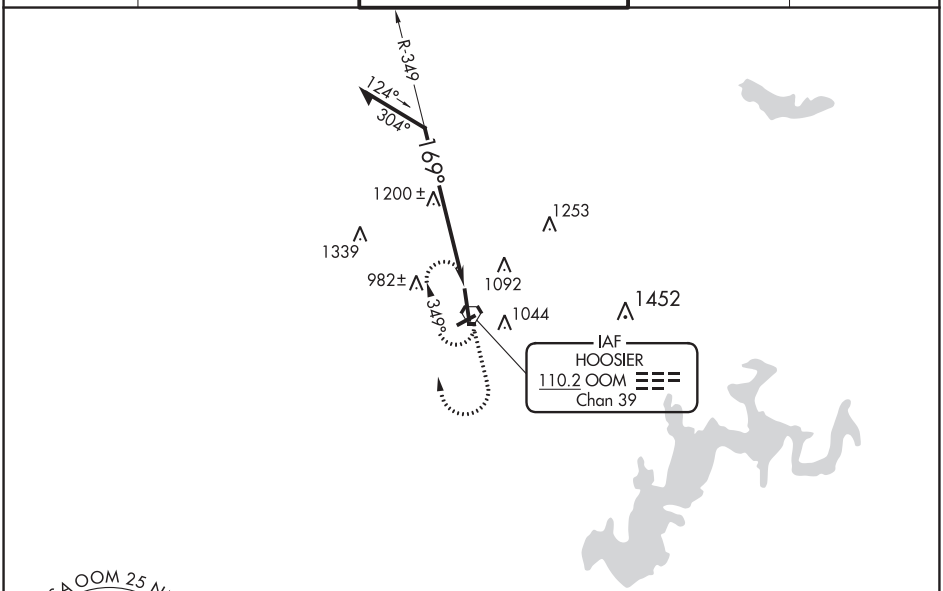
VORTAC OOM	APP CRS	Rwy ldg	6500
110.2	169°	TDZE	846
Chan 39		Apt Elev	846

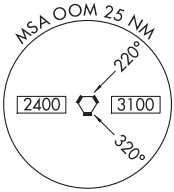
VOR RWY 17
MONROE COUNTY (BMG)

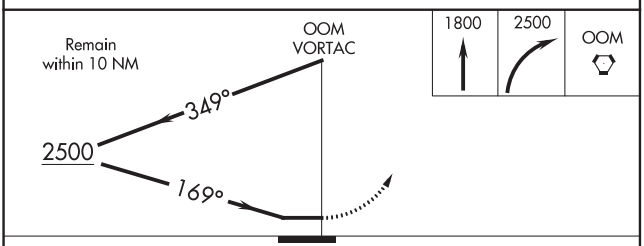
Helicopter visibility reduction below ¾ SM NA. Circling to Rwy 6/24 NA at night. When local altimeter setting not received use Terre Haute Rgnl altimeter setting and increase all MDA 140 feet; increase S-17 and Circling Cat C/D visibility ½ mile.

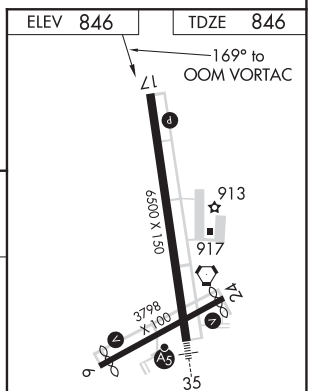
MISSED APPROACH: Climb to 1800 then climbing right turn to 2500 direct OOM VORTAC and hold.

ASOS	HULMAN APP CON ★	BLOOMINGTON TOWER ★	GND CON	UNICOM
134.525	128.025 339.8	120.775 (CTAF) L	121.9	122.95









MIRL Rwy 6-24 L
HIRL Rwy 17-35 L
REIL Rwy 17

CATEGORY	A	B	C	D
S-17	1560-1 714 (800-1)		1560-2 714 (800-2)	1560-2¼ 714 (800-2¼)
CIRCLING	1560-1 714 (800-1)		1560-2 714 (800-2)	1560-2¼ 714 (800-2¼)

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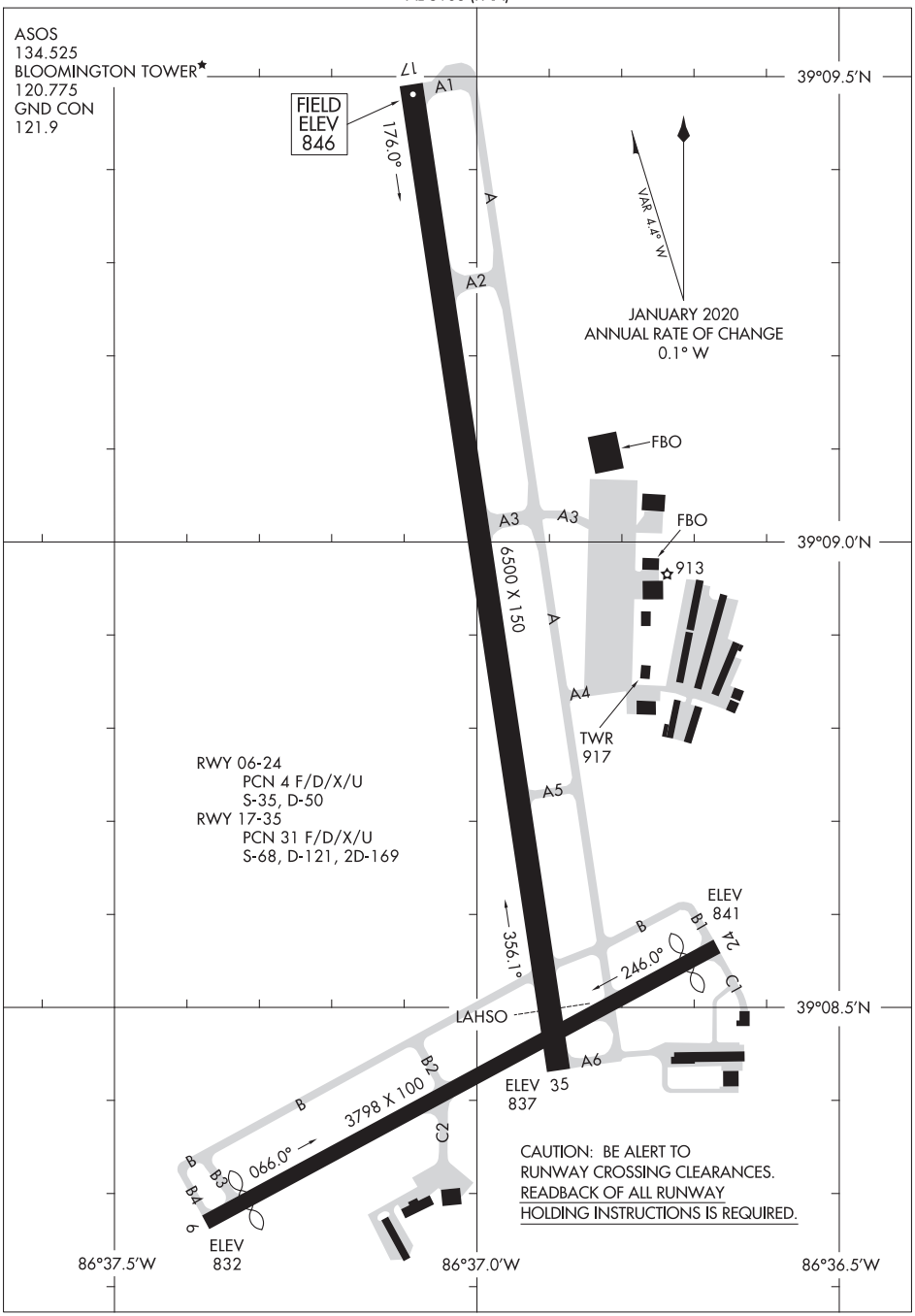
EC-2, 25 FEB 2021 to 22 APR 2021

21056

AIRPORT DIAGRAM

MONROE COUNTY (BMG)
BLOOMINGTON, INDIANA

AL-5168 (FAA)



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
21056
BLOOMINGTON, INDIANA
MONROE COUNTY (BMG)

APP CRS	Rwy ldg	4126
237°	TDZE	850
	Apt Elev	851

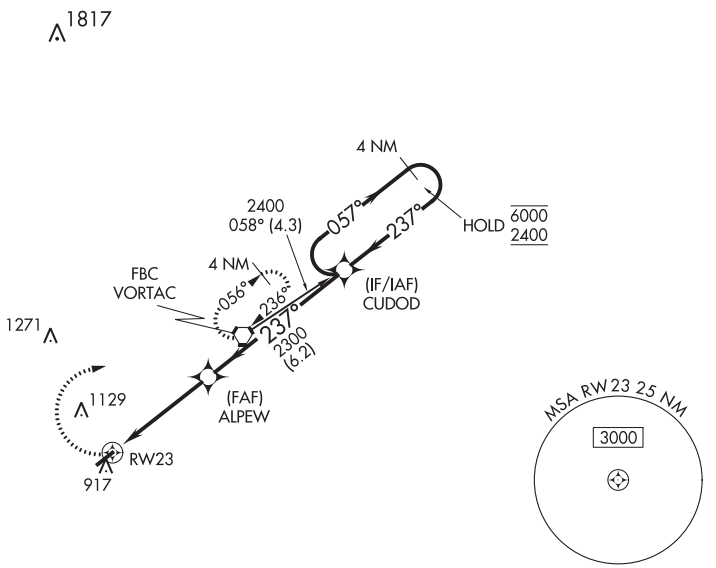
RNAV (GPS) RWY 23
BLUFFTON (5G7)

RNP APCH.

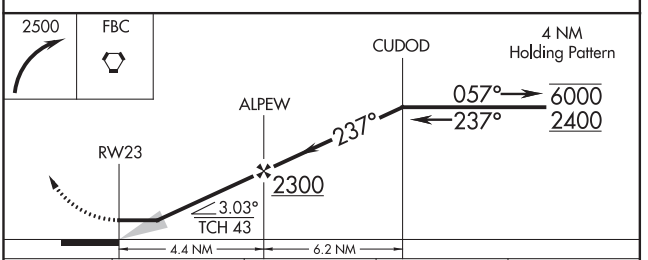
Use Findlay altimeter setting; when not received use Lima altimeter setting and increase all MDA 20 feet and Circling Cat D visibility ¼ SM.

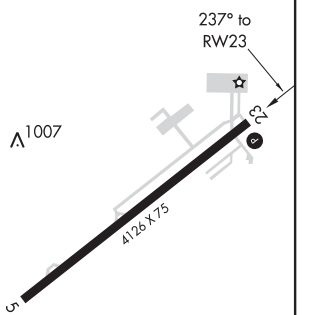
MISSED APPROACH: Climbing right turn to 2500 direct FBC VORTAC and hold.

FDY ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.8 (CTAF) L



ELEV 851	TDZE 850





CATEGORY	A	B	C	D
LNAV MDA	1340-1 490 (500-1)		1340-1⅜ 490 (500-1⅜)	1340-1½ 490 (500-1½)
C CIRCLING	1360-1 509 (600-1)	1520-1 669 (700-1)	1520-1¾ 669 (700-1¾)	1520-2 669 (700-2)

REIL Rwy 5
REIL Rwy 23 L
MIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BLUFFTON, OHIO | AL-5665 (FAA) | 20254

VOR RWY 23
BLUFFTON (5G7)

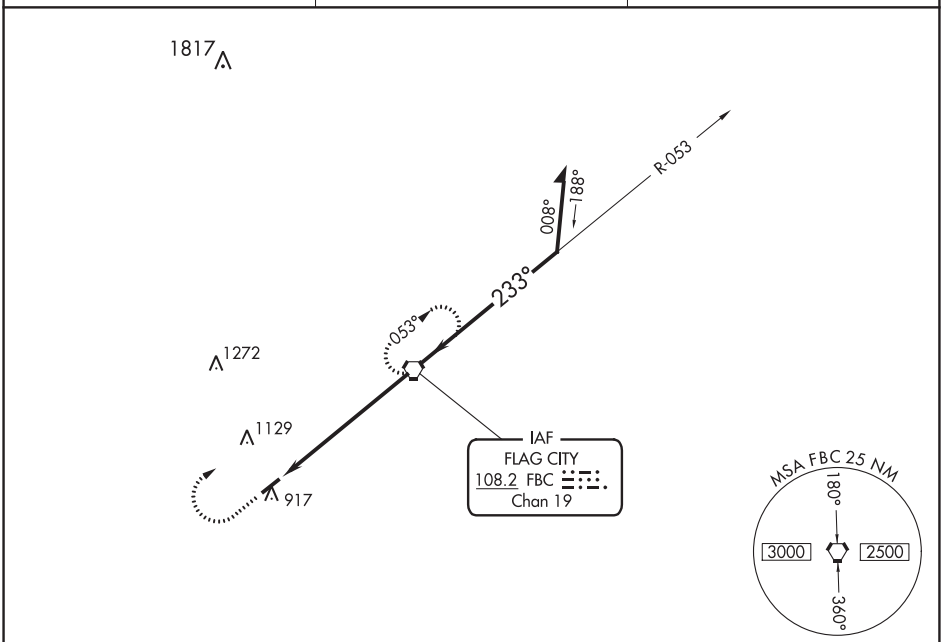
VORTAC FBC	APP CRS	Rwy ldg	4126
108.2	233°	TDZE	850
Chan 19		Apt Elev	851

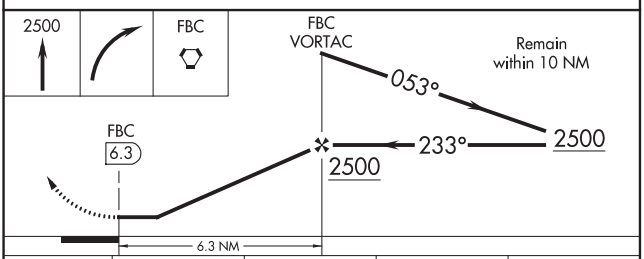
Use Findlay altimeter setting; when not received, use Lima altimeter setting and increase all MDA 20 feet, increase S-23 Cat C ⅛ SM and Circling Cat C/D visibility ¼ SM.

NA

MISSED APPROACH: Climb to 2500 then right turn direct FBC VORTAC and hold.

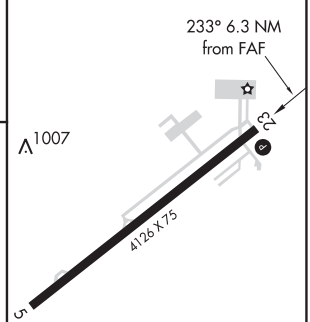
FDY ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-23	1360-1 510 (600-1)		1360-1⅜ 510 (600-1⅜)	1360-1½ 510 (600-1½)
C CIRCLING	1360-1 509 (600-1)	1520-1 669 (700-1)	1520-1¾ 669 (700-1¾)	1520-2 669 (700-2)

ELEV 851	TDZE 850



REIL Rwy 5
REIL Rwy 23 L
MIRL Rwy 5-23 L

FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 10
WOOD COUNTY (1GØ)

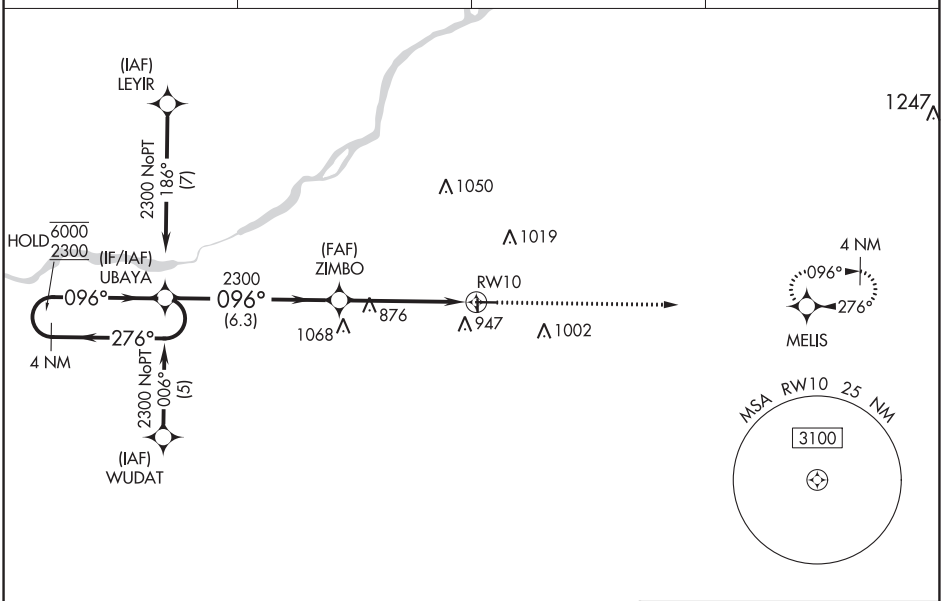
WAAS	APP CRS	Rwy ldg	4199
CH 62803	096°	TDZE	673
W10A		Apt Elev	673

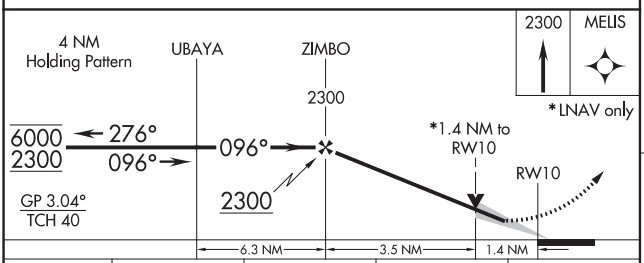
RNP APCH.

Circling Rwy 36 NA at night.
NA VDP NA when using Toledo Express altimeter setting.
When local altimeter setting not received, use Toledo Express altimeter setting: increase DA to 974 feet; increase all MDAs 40 feet and visibility LNAV Cat C and Circling Cat D ¼ SM.

MISSED APPROACH: Climb to 2300 direct MELIS and hold.

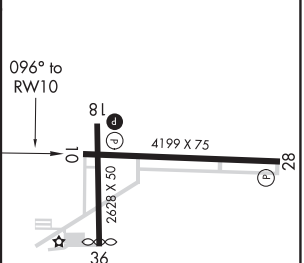
AWOS-3	TOLEDO APP CON	CLNC DEL	UNICOM
120.725	126.1 317.55	125.6	122.975 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	939-1 266 (300-1)			
LNAV MDA	1160-1 487 (500-1)		1160-1⅜ 487 (500-1⅜)	1160-1½ 487 (500-1½)
CIRCLING	1300-1 627 (700-1)		1300-1¾ 627 (700-1¾)	1320-2 647 (700-2)

ELEV 673 TDZE 673



REIL Rwys 10, 18, and 28 L
MIRL Rwys 10-28 and 18-36 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BOWLING GREEN, OHIO | AL-5009 (FAA) | 20310

RNAV (GPS) RWY 18
WOOD COUNTY (1G0)

WAAS CH 97403 W18A	APP CRS 184°	Rwy ldg 2628 TDZE 672 Apt Elev 673

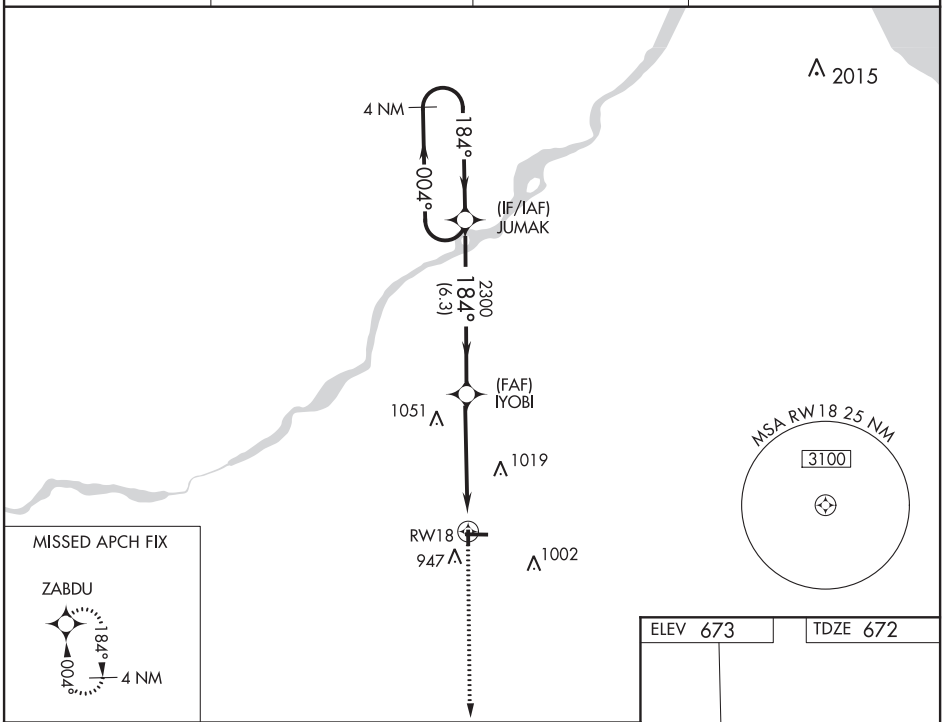
RNP APCH.

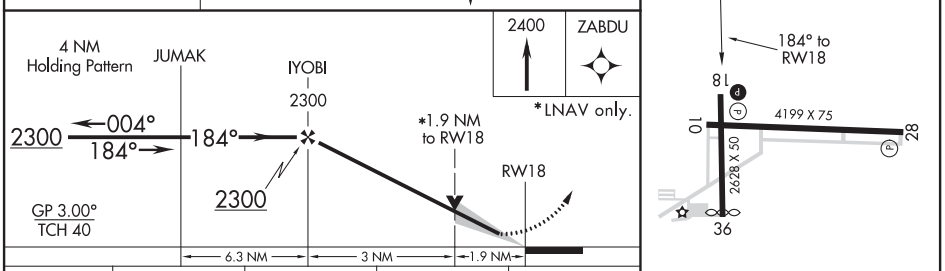
Circling Rwy 36 NA at night. VDP NA when using Toledo Express altimeter setting. When local altimeter setting not received, use Toledo Express altimeter setting and increase DA to 957 feet; increase all MDAs 40 feet.

NA

MISSED APPROACH: Climb to 2400 direct ZABDU and hold.

AWOS-3	TOLEDO APP CON	CLNC DEL	UNICOM
120.725	126.1 317.55	125.6	122.975 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	922-1	250 (300-1)	NA	
LNAV MDA	1320-1	648 (700-1)	NA	
C CIRCLING	1320-1	647 (700-1)	NA	

REIL Rwys 10, 18 and 28 L
MIRL Rwys 10-28 and 18-36 L

BOWLING GREEN, OHIO
Orig-D 05NOV20

41°23'N-83°38'W

WOOD COUNTY (1G0)
RNAV (GPS) RWY 18

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82702 W28A	APP CRS 276°	Rwy ldg 4199 TDZE 673 Apt Elev 673

RNAV (GPS) RWY 28
WOOD COUNTY (1G0)

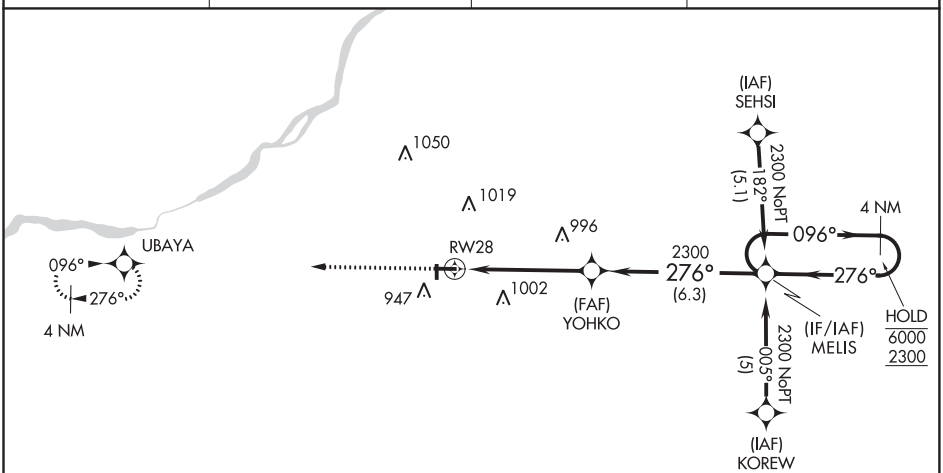
RNP APCH.

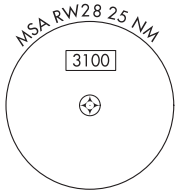
Circling Rwy 36 NA at night. Rwy 28 helicopter visibility reduction below ¾ SM NA. VDP NA when using Toledo Express altimeter setting.

NA When local altimeter setting not received, use Toledo Express altimeter setting: increase DA to 958 feet; increase all MDAs 40 feet and visibility LNAV Cat C ⅛ SM and Circling Cat D ¼ SM.

MISSED APPROACH: Climb to 2300 direct UBAYA and hold.

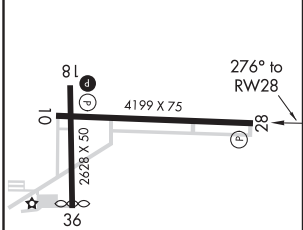
AWOS-3	TOLEDO APP CON	CLNC DEL	UNICOM
120.725	126.1 317.55	125.6	122.975 (CTAF) L

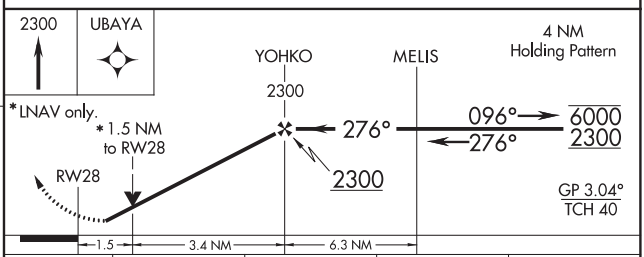




1292

ELEV 673 TDZE 673





CATEGORY	A	B	C	D
LPV DA	923-1 250 (300-1)			
LNAV MDA	1200-1 527 (600-1)		1200-1½ 527 (600-1½)	1200-1¾ 527 (600-1¾)
CIRCLING	1300-1 627 (700-1)		1300-1¾ 627 (700-1¾)	1320-2 647 (700-2)

REIL Rwys 10, 18 and 28 L
MIRL Rwys 10-28 and 18-36 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

BOWLING GREEN, OHIO | AL-5009 (FAA) | 20310

RNAV (GPS) RWY 36
WOOD COUNTY (1G0)

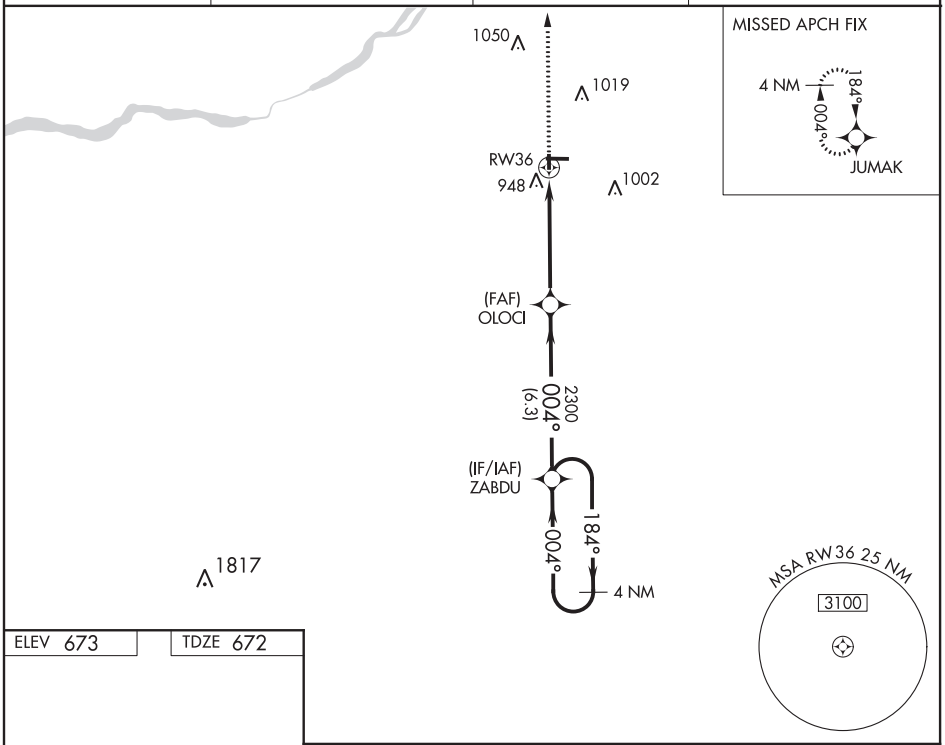
APP CRS	Rwy ldg	2560
004°	TDZE	672
	Apt Elev	673

RNP APCH.

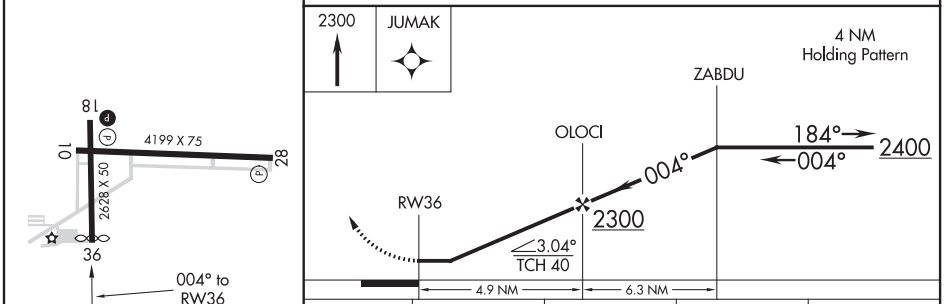
T A NA — Rwy 36 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Toledo Express altimeter setting and increase all MDAs 40 feet. Straight-in and Circling Rwy 36 NA at night.

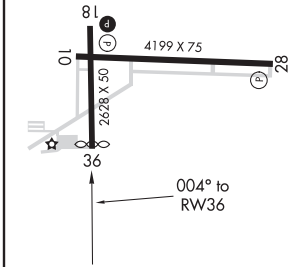
MISSED APPROACH: Climb to 2300 direct JUMAK and hold.

AWOS-3	TOLEDO APP CON	CLNC DEL	UNICOM
120.725	126.1 317.55	125.6	122.975 (CTAF) L



ELEV 673 | TDZE 672





REIL Rwys 10, 18 and 28 L
MIRL Rwys 10-28 and 18-36 L

CATEGORY	A	B	C	D
LNAV MDA	1260-1	588 (600-1)	NA	
C CIRCLING	1300-1	627 (700-1)	NA	

BOWLING GREEN, OHIO
Orig-D 05NOV20

41°23′N-83°38′W

WOOD COUNTY (1G0)
RNAV (GPS) RWY 36

EC-2, 25 FEB 2021 to 22 APR 2021

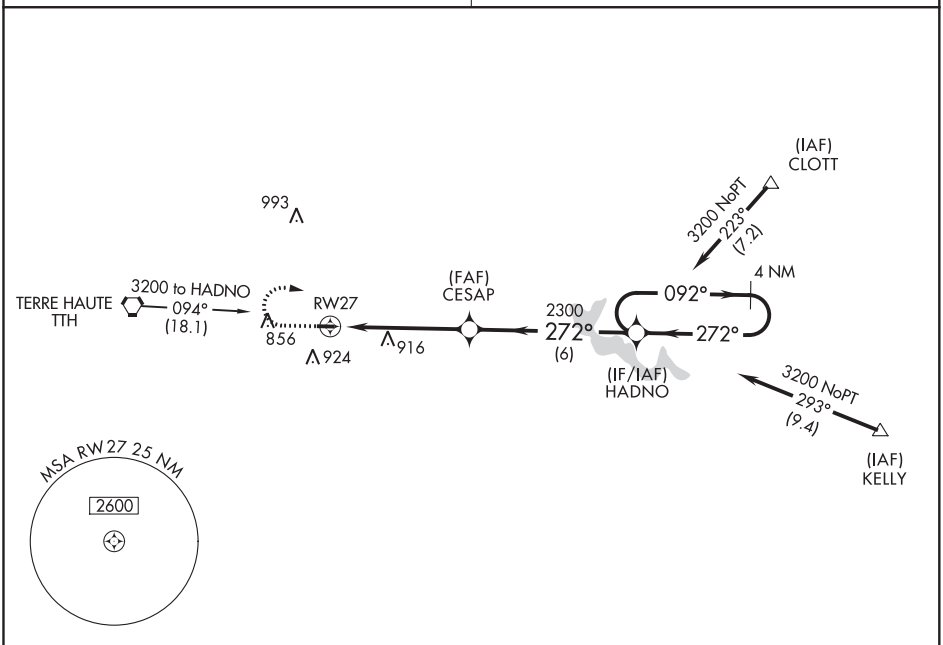
RNAV (GPS) RWY 27
BRAZIL CLAY COUNTY (ØI2)

APP CRS	Rwy ldg	2499
272°	TDZE	645
	Apt Elev	645

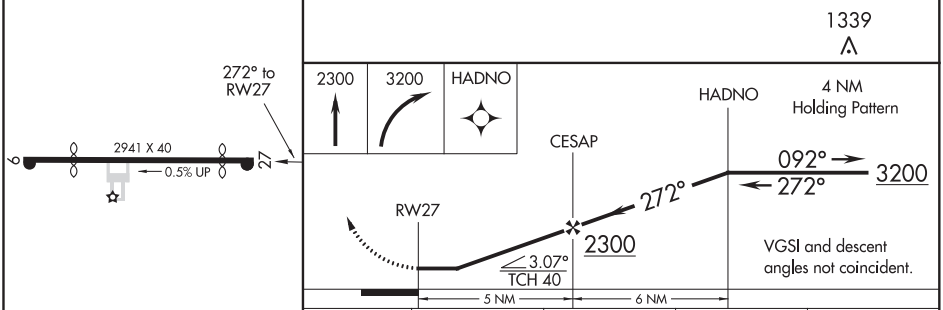
DME/DME RNP-0.3 NA. Use Terre Haute altimeter setting. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2300 then climbing right turn to 3200 direct HADNO WP and hold.

HULMAN APP CON	UNICOM
125.45 339.8	122.8 (CTAF) L



ELEV 645	TDZE 645



CATEGORY	A	B	C	D
LNAV MDA	1240-1 595 (600-1)	NA		
CIRCLING	1240-1 595 (600-1)	NA		

LIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BRYAN, OHIO | AL-5604 (FAA) | 20142

RNAV (GPS) RWY 7

WILLIAMS COUNTY (ØG6)

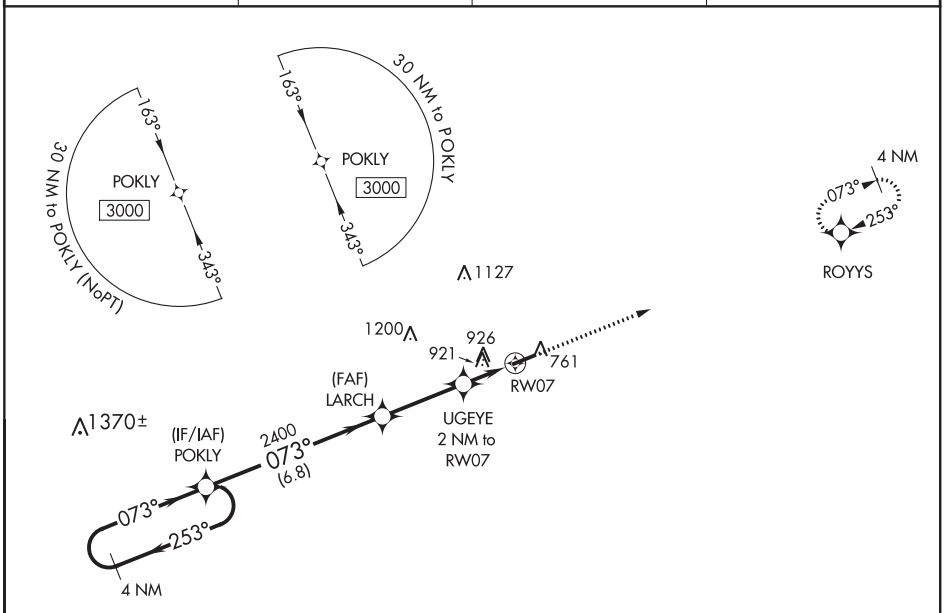
WAAS CH 81927 W07A	APP CRS 073°	Rwy ldg 4491 TDZE 730 Apt Elev 730

T NA

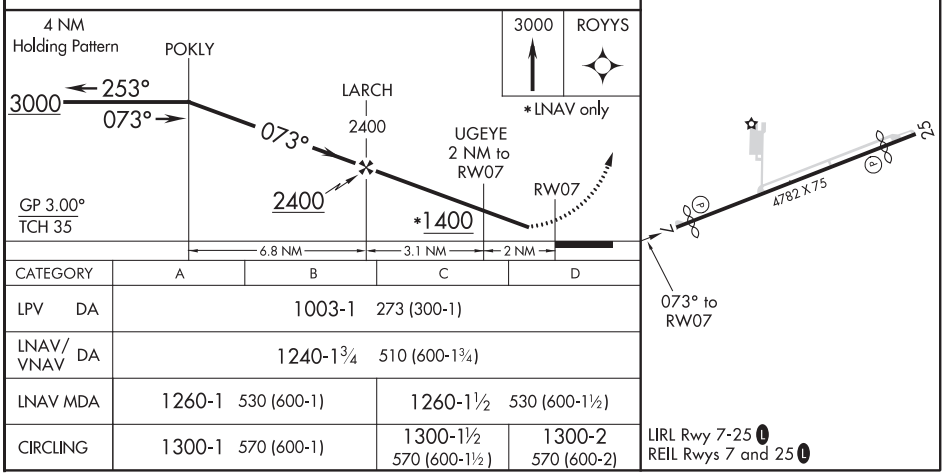
Baro-VNAV NA. When VGSI inop, Straight-in/Circling Rwy 7 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Defiance Memorial altimeter setting; when not received, use De Kalb County altimeter setting and increase all DA/MDA 60 feet, increase LPV visibility ⅛ mile all Cats, LNAV/VNAV ¼ mile all Cats and LNAV Cat C/D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct ROYYS and hold.

DFI ASOS	TOLEDO APP CON	UNICOM	
121.425	134.35 307.0	122.8 (CTAF)	123.0 L



ELEV 730 | TDZE 730



CATEGORY	A	B	C	D
LPV DA	1003-1 273 (300-1)			
LNAV/VNAV DA	1240-1¾ 510 (600-1¾)			
LNAV MDA	1260-1 530 (600-1)		1260-1½ 530 (600-1½)	
CIRCLING	1300-1 570 (600-1)		1300-1½ 570 (600-1½)	1300-2 570 (600-2)

LIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

BRYAN, OHIO
Amdt 1A 02APR15

41°28′N-84°30′W

WILLIAMS COUNTY (ØG6)

RNAV (GPS) RWY 7

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 40427 W25A	APP CRS 253°	Rwy ldg 4153 TDZE 730 Apt Elev 730

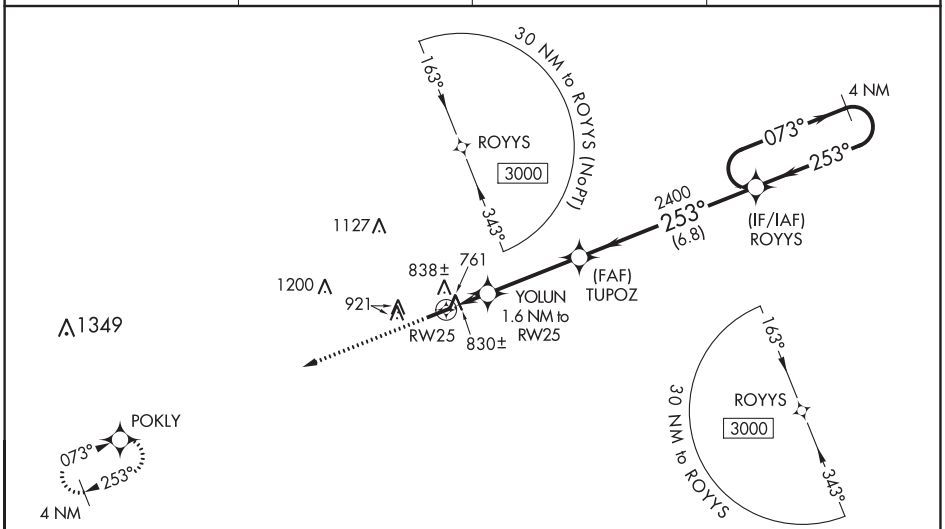
RNAV (GPS) RWY 25

WILLIAMS COUNTY (ØG6)

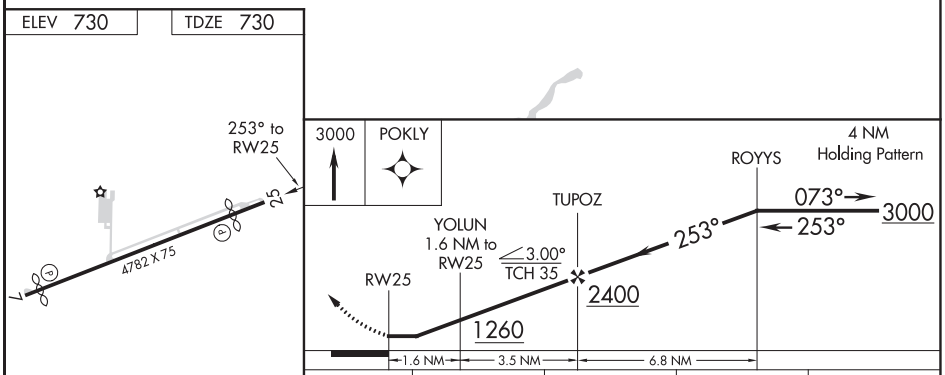
When VGSI inop, Straight-in/Circling Rwy 25 procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Use Defiance Memorial altimeter setting; when not received, use De Kalb County altimeter setting and increase all MDA 60 feet, increase LP and LNAV Cat C/D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct POKLY and hold.

DFI ASOS	TOLEDO APP CON	UNICOM	
121.425	134.35 307.0	122.8 (CTAF)	123.0 L



ELEV 730 TDZE 730



CATEGORY	A	B	C	D
LP MDA	1120-1	390 (400-1)	1120-1⅛	390 (400-1⅛)
LNAV MDA	1140-1	410 (500-1)	1140-1⅛	410 (500-1⅛)
CIRCLING	1300-1	570 (600-1)	1300-1½ 570 (600-1½)	1300-2 570 (600-2)

LIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

BUCYRUS, OHIO | AL-6388 (FAA) | 19227

RNAV (GPS) RWY 4

PORT BUCYRUS-CRAWFORD COUNTY (17G)

APP CRS	Rwy ldg	3619
043°	TDZE	1003
	Apt Elev	1008

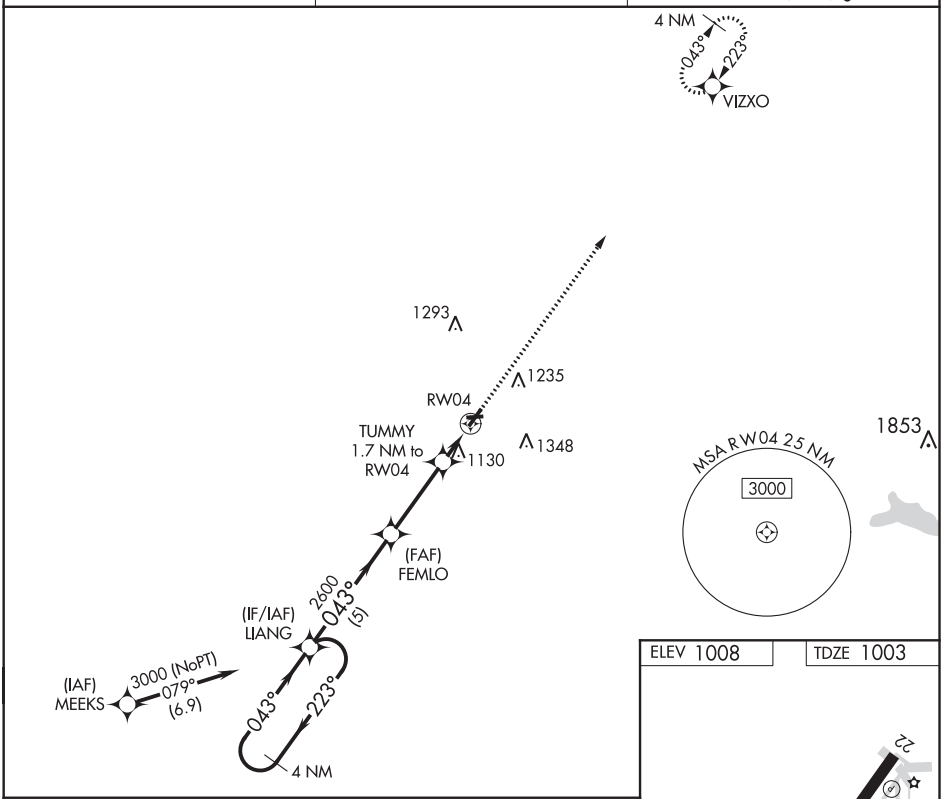
RNP APCH.

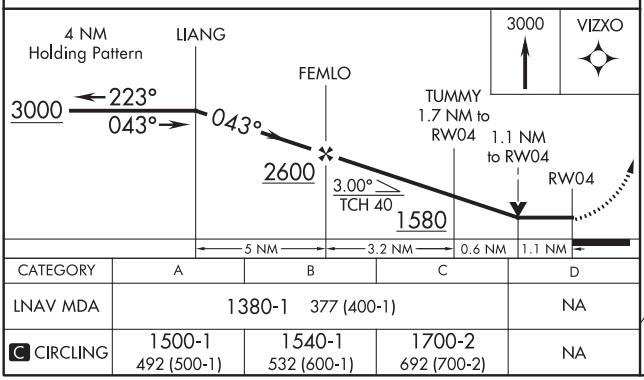
Circling NA to Rwys 9 and 27. Circling Rwy 22 NA at night. Rwy 4 helicopter visibility reduction below ¾ SM NA. VDP NA with Mansfield altimeter setting. When local altimeter setting not received, use Mansfield altimeter setting: increase all MDA 100 feet and visibility Cat C ⅜ SM.

NA

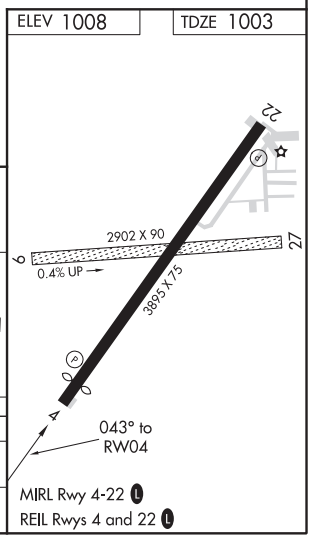
MISSED APPROACH: Climb to 3000 direct VIZXO and hold.

AWOS-3	CLEVELAND APP CON ★	UNICOM
126.625	124.2 360.65	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1380-1 377 (400-1)			NA
C CIRCLING	1500-1 492 (500-1)	1540-1 532 (600-1)	1700-2 692 (700-2)	NA



BUCYRUS, OHIO
Orig-A 24MAY18

40°47′N-82°58′W

PORT BUCYRUS-CRAWFORD COUNTY (17G)

RNAV (GPS) RWY 4

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82033 W22A	APP CRS 223°	Rwy ldg 3895 TDZE 1003 Apt Elev 1008

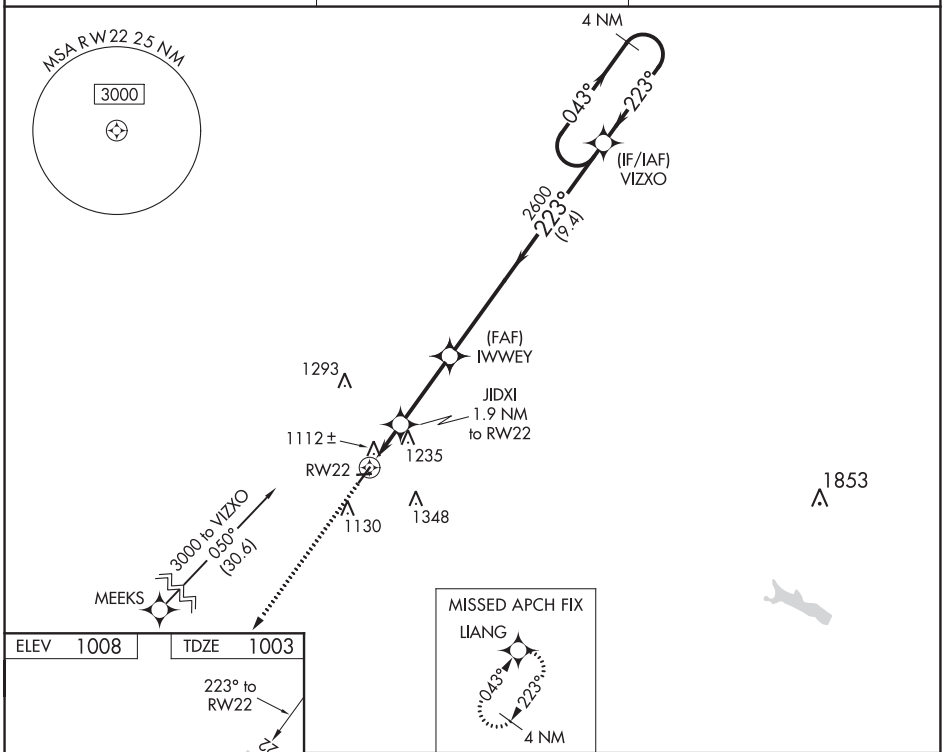
RNAV (GPS) RWY 22
PORT BUCYRUS-CRAWFORD COUNTY (17G)

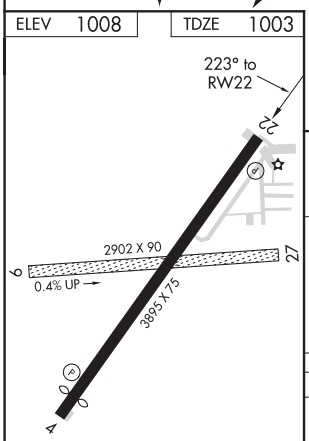
RNP APCH.

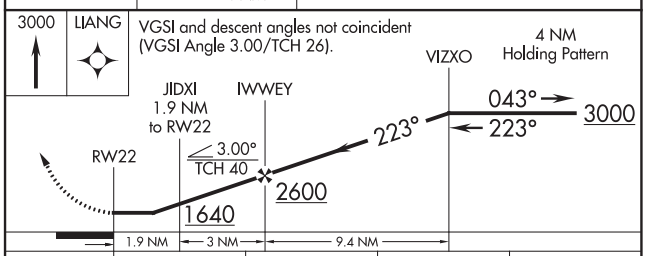
NA Circling NA to Rwys 9 and 27. Rwy 22 helicopter visibility reduction below 1 SM NA. Straight-in and Circling Rwy 22 NA at night. When local altimeter setting not received, use Mansfield altimeter setting: increase all MDA 100 feet and visibility Cat C ⅜ SM.

MISSED APPROACH: Climb to 3000 direct LIANG and hold.

AWOS-3	CLEVELAND APP CON ★	UNICOM
126.625	124.2 360.65	122.8 (CTAF) L







CATEGORY	A	B	C	D
LP MDA	1380-1 377 (400-1)			NA
LNAV MDA	1500-1 497 (500-1)		1500-1⅜ 497 (500-1⅜)	NA
C CIRCLING	1500-1 492 (500-1)	1540-1 532 (600-1)	1700-2 692 (700-2)	NA

REIL Rwys 4 and 22 L
MIRL Rwys 4-22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

BUCYRUS, OHIO

AL-6388 (FAA)

20086

VOR RWY 22

PORT BUCYRUS-CRAWFORD COUNTY (17G)

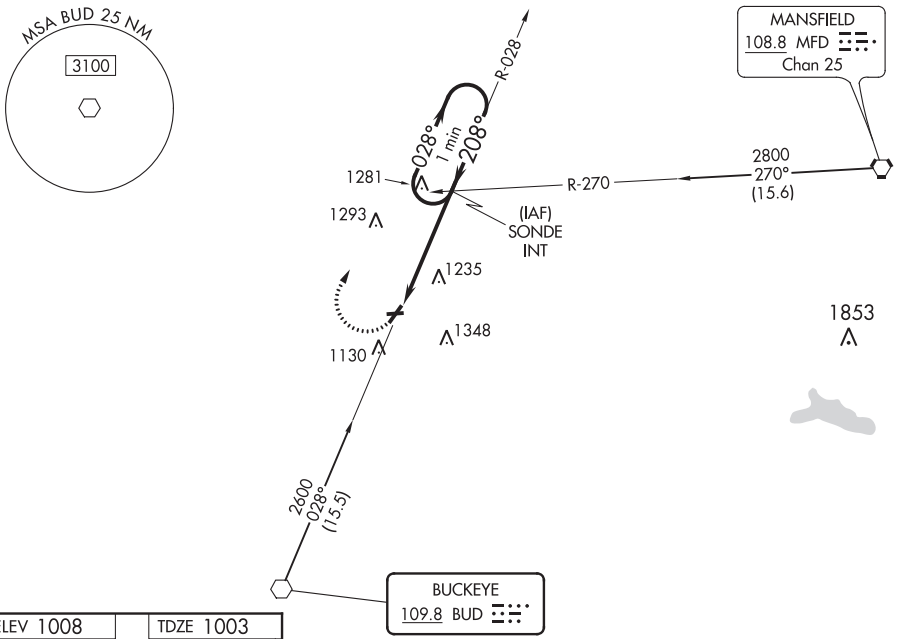
VOR BUD	APP CRS	Rwy ldg	3895
109.8	208°	TDZE	1003
		Apt Elev	1008

T
A NA

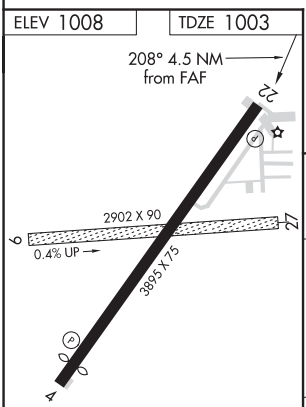
Circling NA to Rwys 9 and 27. Rwy 22 helicopter visibility reduction below 1 SM NA. Straight-in and Circling Rwy 22 NA at night. When local altimeter setting not received, use Mansfield altimeter setting: increase all MDA 100 feet and visibility Cats B and C ½ SM.

MISSED APPROACH: Climbing right turn to 2600 on heading 090°and on BUD VOR R-028 to SONDE INT and hold.

AWOS-3	CLEVELAND APP CON ★	UNICOM
126.625	124.2 360.65	122.8 (CTAF) L



RADAR REQUIRED

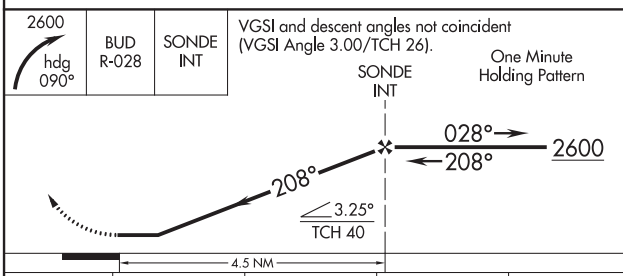


MIRL Rwy 4-22 L
REIL Rwys 4 and 22 L

FAF to MAP 4.5 NM					
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

2600 hdg 090°	BUD R-028	SONDE INT

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



CATEGORY	A	B	C	D
S-22	1700-1	697 (700-1)	1700-2 697 (700-2)	NA
C CIRCLING	1700-1	692 (700-1)	1700-2 692 (700-2)	NA

BUCYRUS, OHIO
Amdt 5A 24MAY18

40°47′N-82°58′W

PORT BUCYRUS-CRAWFORD COUNTY (17G)
VOR RWY 22

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3280
134°	TDZE	1161
	Apt Elev	1174

RNAV (GPS) RWY 13
HARRISON COUNTY (8G6)

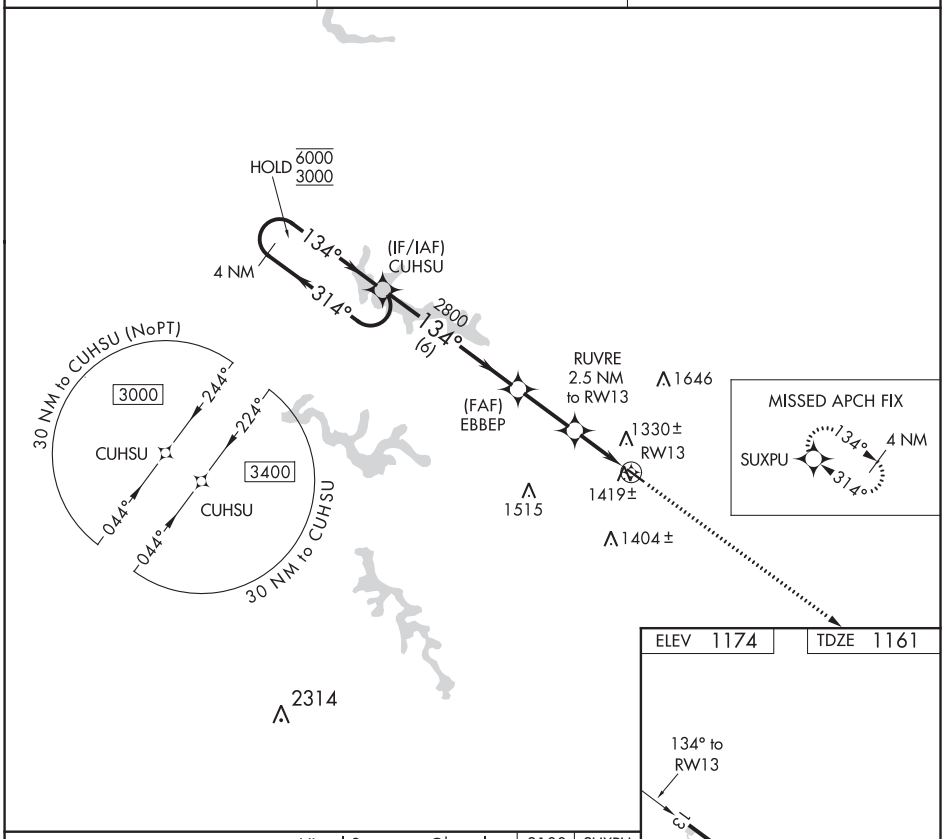
RNP APCH.

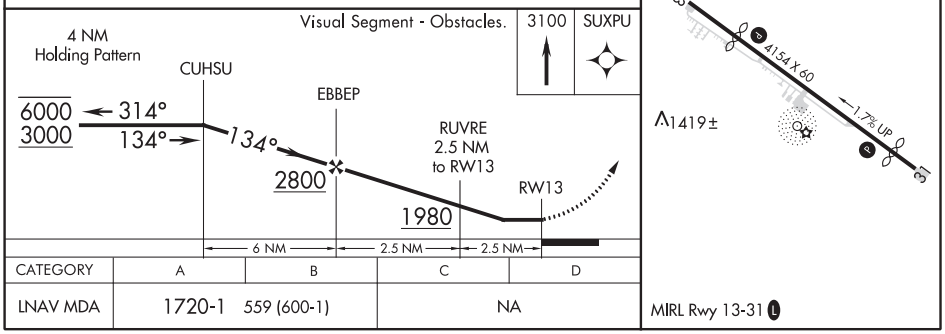
NA

Rwy 13 helicopter visibility reduction below 1 SM NA. Use Wheeling altimeter setting; when not received, use Washington altimeter setting and increase all MDA 40 feet. Procedure NA at night.

MISSED APPROACH: Climb to 3100 direct SUXPU and hold.

HLG ASOS	CLEVELAND CENTER	UNICOM
127.375	126.95 239.30	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1720-1 559 (600-1)		NA	

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CADIZ, OHIO | AL-6205 (FAA) | 20366

APP CRS	Rwy ldg	3744
314°	TDZE	1163
	Apt Elev	1174

RNAV (GPS) RWY 31
HARRISON COUNTY (8G6)

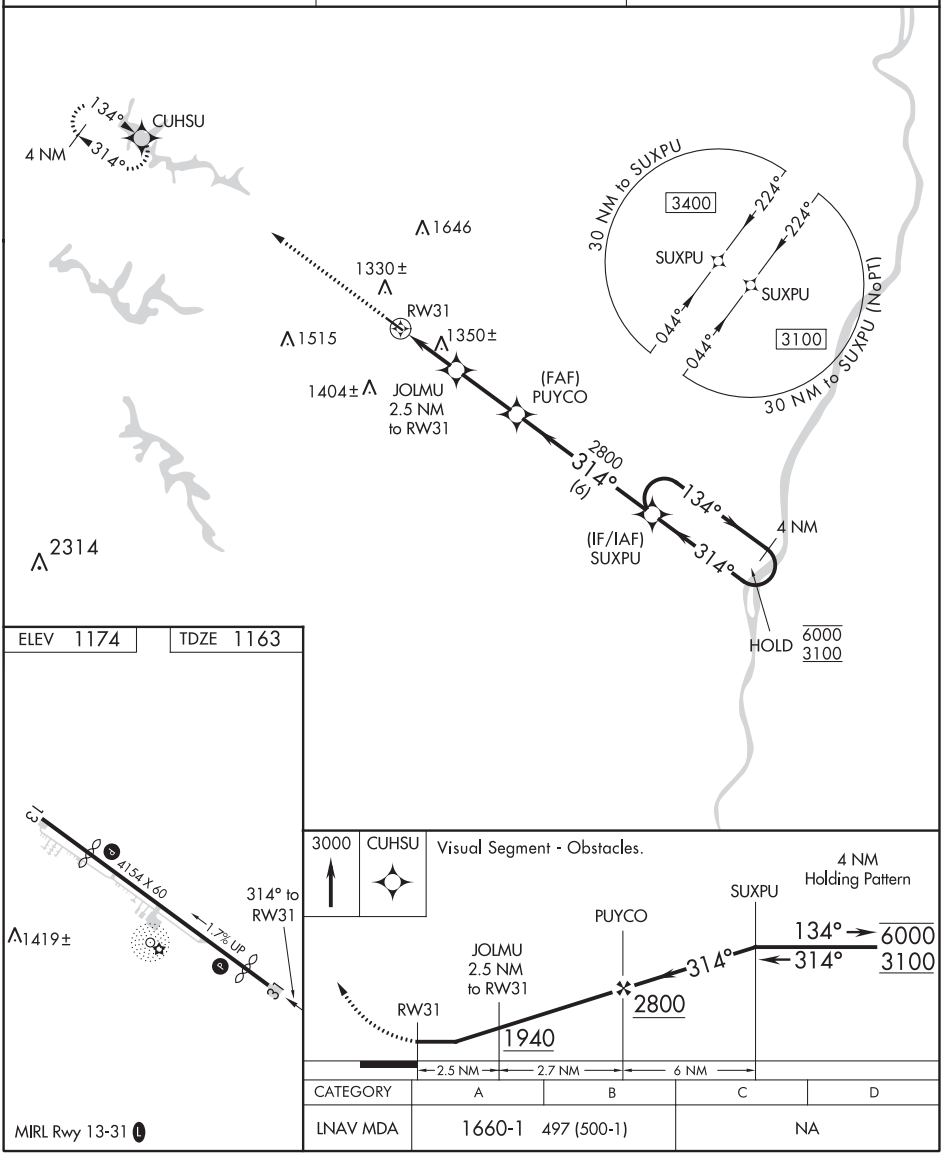
RNP APCH.

Rwy 31 helicopter visibility reduction below 1 SM NA. Use Wheeling altimeter setting; when not received, use Washington altimeter setting and increase all MDA 40 feet. Procedure NA at night.

NA

MISSED APPROACH: Climb to 3000 direct CUHSU and hold.

HLG ASOS	CLEVELAND CENTER	UNICOM
127.375	126.95 239.30	122.8 (CTAF)



CATEGORY	A	B	C	D
LNAV MDA	1660-1 497 (500-1)		NA	

CADIZ, OHIO
Orig-C 07NOV19

40°14′N-81°01′W

HARRISON COUNTY (8G6)
RNAV (GPS) RWY 31

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 48841 W23A	APP CRS 228°	Rwy ldg 3398 TDZE 878 Apt Elev 879

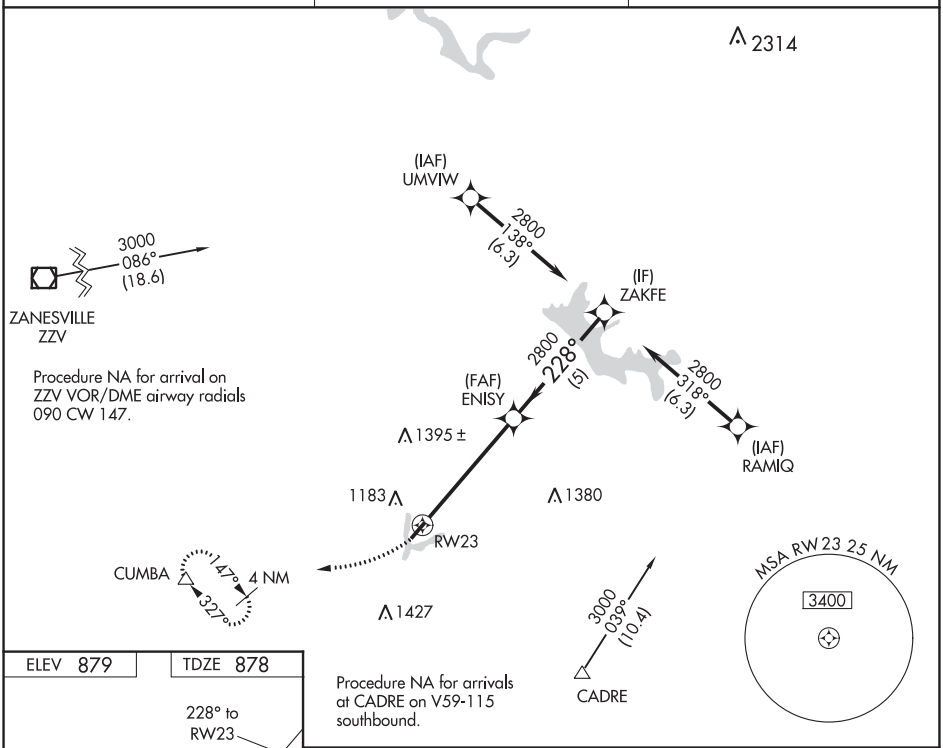
RNAV (GPS) RWY 23
NOBLE COUNTY (I1Ø)

Rwy 23 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. Procedure NA at night. Use Zanesville altimeter setting; when not received, procedure NA.

NA

MISSED APPROACH: Climbing right turn to 3000 direct to CUMBA and hold.

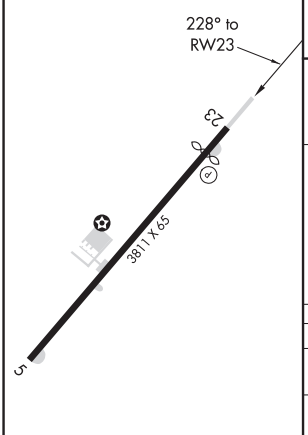
ZZV ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	122.8 (CTAF)



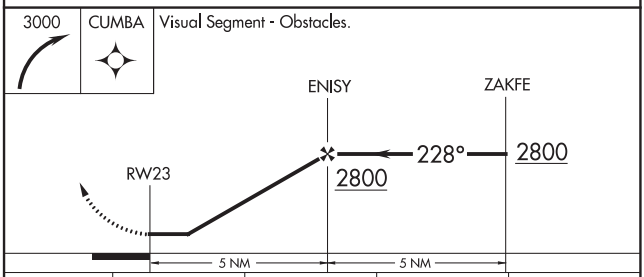
Procedure NA for arrival on ZZV VOR/DME airway radials 090 CW 147.

Procedure NA for arrivals at CADRE on V59-115 southbound.

ELEV 879	TDZE 878



MIRL Rwy 5-23



CATEGORY	A	B	C	D
LP MDA	1580-1	702 (800-1)	1580-2 702 (800-2)	NA
LNAV MDA	1620-1 742 (800-1)	1620-1¼ 742 (800-1¼)	1620-2 742 (800-2)	NA
C CIRCLING	1620-1	741 (800-1)	1660-2¼ 781 (800-2¼)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CAMBRIDGE, OHIO | AL-5993 (FAA) | 20198

RNAV (GPS) RWY 4
CAMBRIDGE MUNI (CDI)

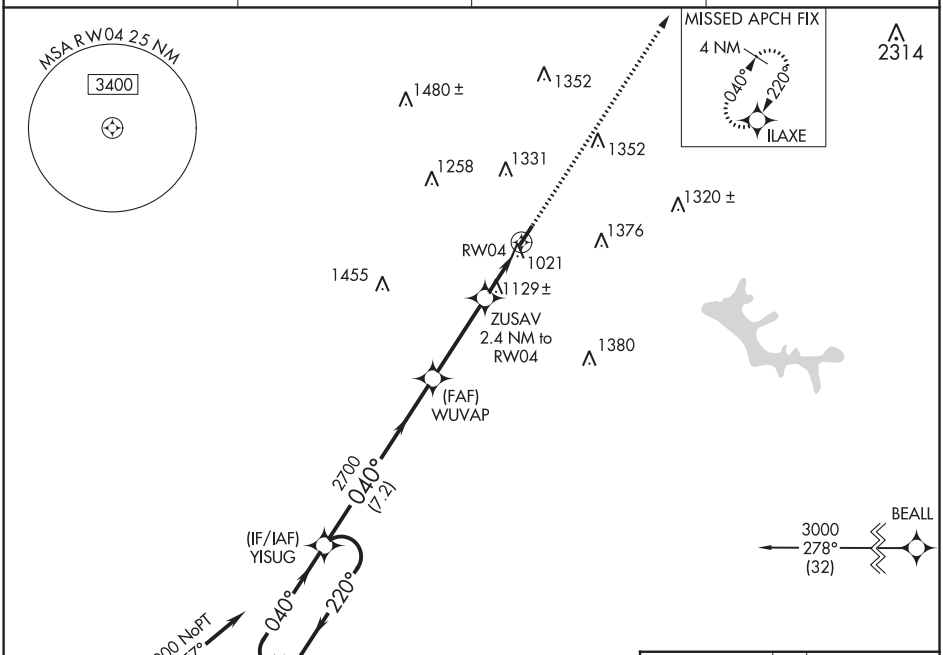
APP CRS	Rwy ldg	3898
040°	TDZE	799
	Apt Elev	799

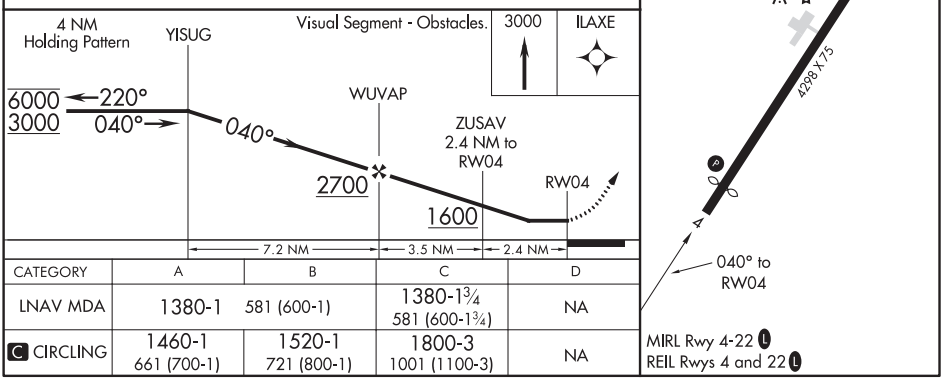
RNP APCH.

Rwy 4 helicopter visibility reduction below 1 SM NA. Straight-in and Circling Rwy 4 NA at night.

MISSED APPROACH: Climb to 3000 direct ILAXE and hold.

AWOS-3	(WEST) INDIANAPOLIS CENTER	(EAST) CLEVELAND CENTER	UNICOM
118.525	124.45 370.9	126.95 239.3	123.075 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1380-1 581 (600-1)		1380-1¾ 581 (600-1¾)	NA
C CIRCLING	1460-1 661 (700-1)	1520-1 721 (800-1)	1800-3 1001 (1100-3)	NA

CAMBRIDGE, OHIO
Orig-E 05DEC19

39°59′N-81°35′W

CAMBRIDGE MUNI (CDI)
RNAV (GPS) RWY 4

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 70334 W22A	APP CRS 220°	Rwy ldg 4298 TDZE 799 Apt Elev 799

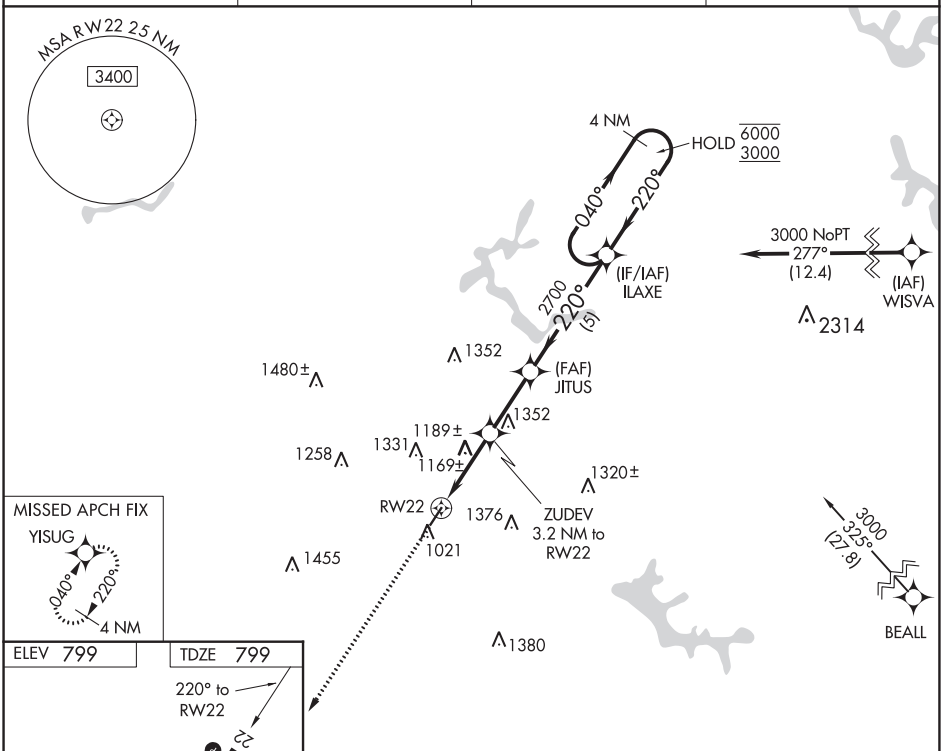
RNAV (GPS) RWY 22
CAMBRIDGE MUNI (CDI)

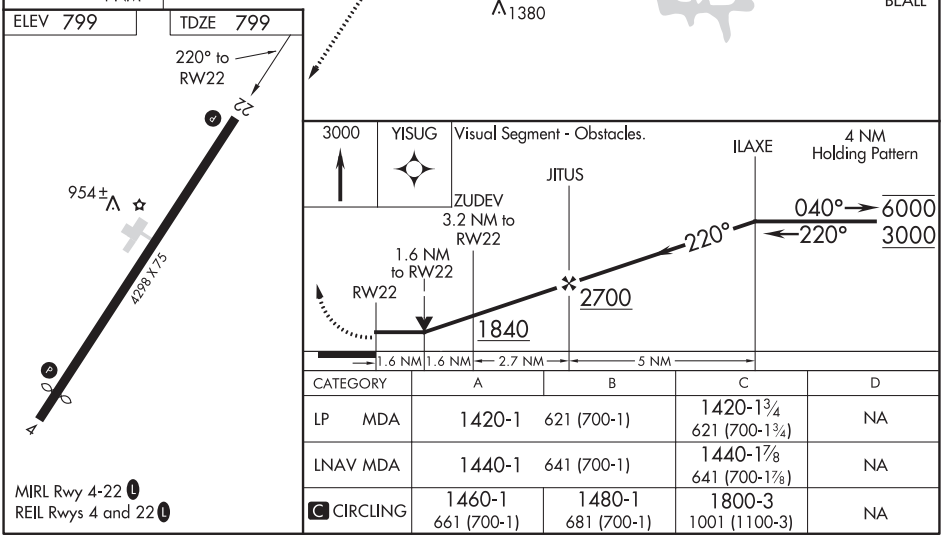
RNP APCH.

Circling Rwy 4 NA at night. Rwy 22 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct YISUG and hold.

AWOS-3	(WEST) INDIANAPOLIS CENTER	(EAST) CLEVELAND CENTER	UNICOM
118.525	124.45 370.9	126.95 239.3	123.075 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1420-1	621 (700-1)	1420-1¾ 621 (700-1¾)	NA
LNAV MDA	1440-1	641 (700-1)	1440-1⅞ 641 (700-1⅞)	NA
C CIRCLING	1460-1 661 (700-1)	1480-1 681 (700-1)	1800-3 1001 (1100-3)	NA

MIRL Rwy 4-22 L
REIL Rwys 4 and 22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

CARROLLTON, OHIO | AL-5994 (FAA) | 20198

RNAV (GPS) RWY 7
CARROLL COUNTY-TOLSON (TSO)

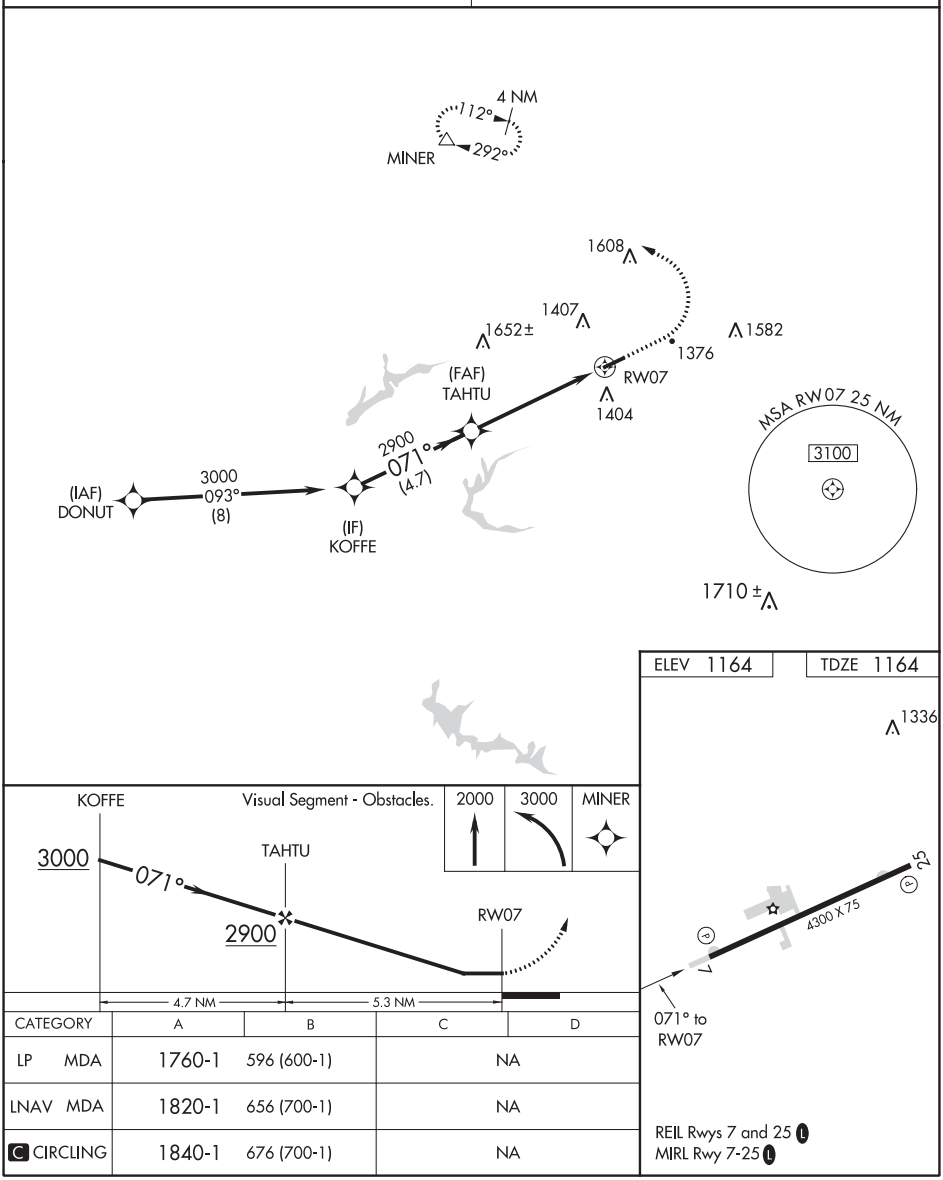
WAAS CH 62930 W07A	APP CRS 071°	Rwy ldg 4300 TDZE 1164 Apt Elev 1164

RNP APCH.

T A NA Procedure NA at night. Use Akron-Canton Rgnl altimeter setting; when not received use New Philadelphia altimeter and increase all MDA 20 feet. Rwy 7 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct MINER and hold.

CLEVELAND APP CON★	UNICOM
125.5 371.875	122.7 (CTAF) L



CATEGORY	A	B	C	D
LP MDA	1760-1	596 (600-1)	NA	
LNAV MDA	1820-1	656 (700-1)	NA	
C CIRCLING	1840-1	676 (700-1)	NA	

CARROLLTON, OHIO
Orig-C 20JUN19

40°34′N-81°05′W

CARROLL COUNTY-TOLSON (TSO)
RNAV (GPS) RWY 7

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR-A
CARROLL COUNTY-TOLSON (TSO)

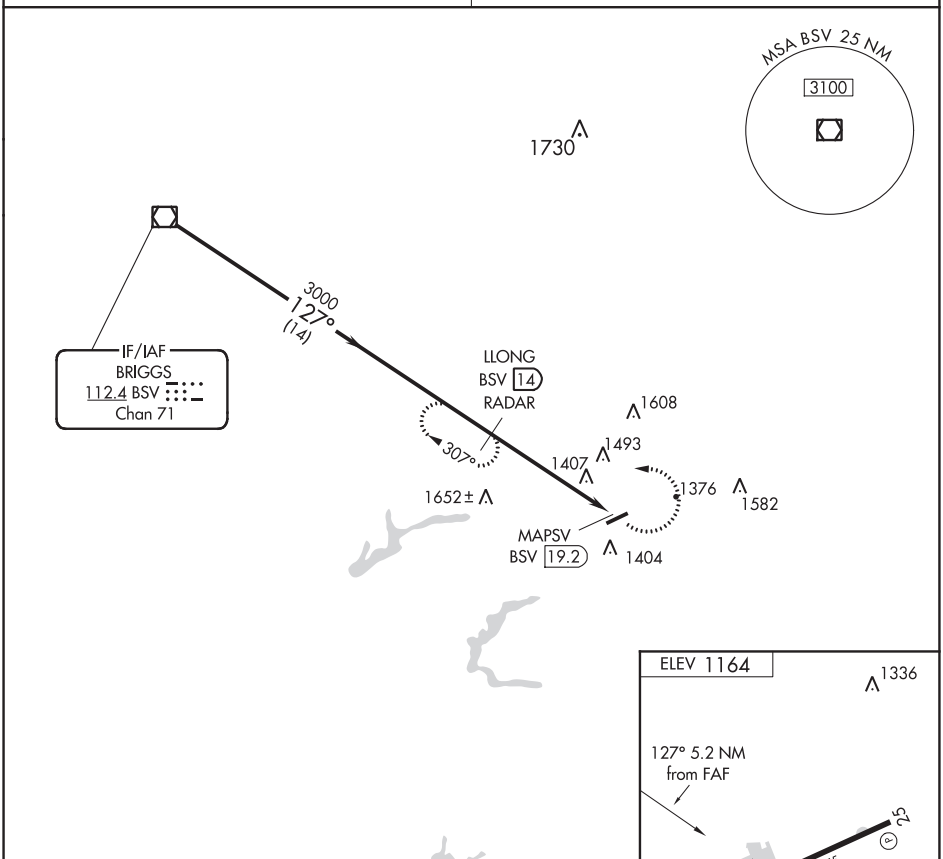
VOR/DME BSV 112.4 Chan 71	APP CRS 127°	Rwy ldg N/A TDZE N/A Apt Elev 1164

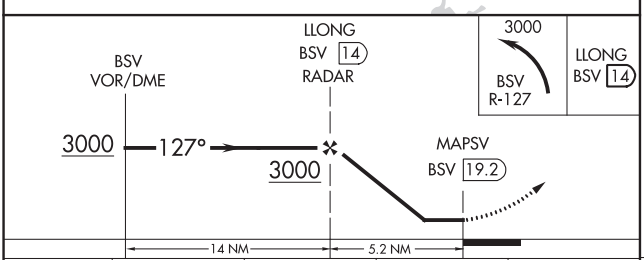
DME or RADAR required.

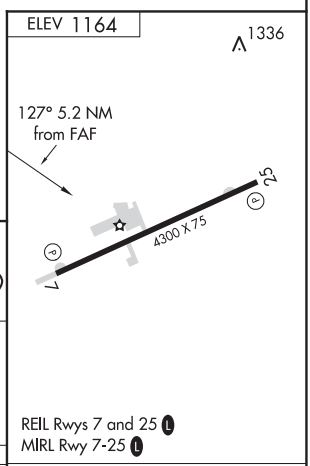
Procedure NA at night. Use Akron-Canton altimeter setting; when not received, use New Philadelphia altimeter setting and increase MDA 20 feet.

MISSED APPROACH: Climbing left turn to 3000 on BSV VOR/DME R-127 to LLONG/BSV 14 DME/RADAR and hold.

CLEVELAND APP CON ★	UNICOM
125.5 371.875	122.7 (CTAF) L







REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

CATEGORY	A	B	C	D
C CIRCLING	1940-1	777 (800-1)	NA	

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

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

CELINA, OHIO | AL-5823 (FAA) | 21056

WAAS CH 61116 W08A	APP CRS 087°	Rwy ldg 4400 TDZE 894 Apt Elev 894

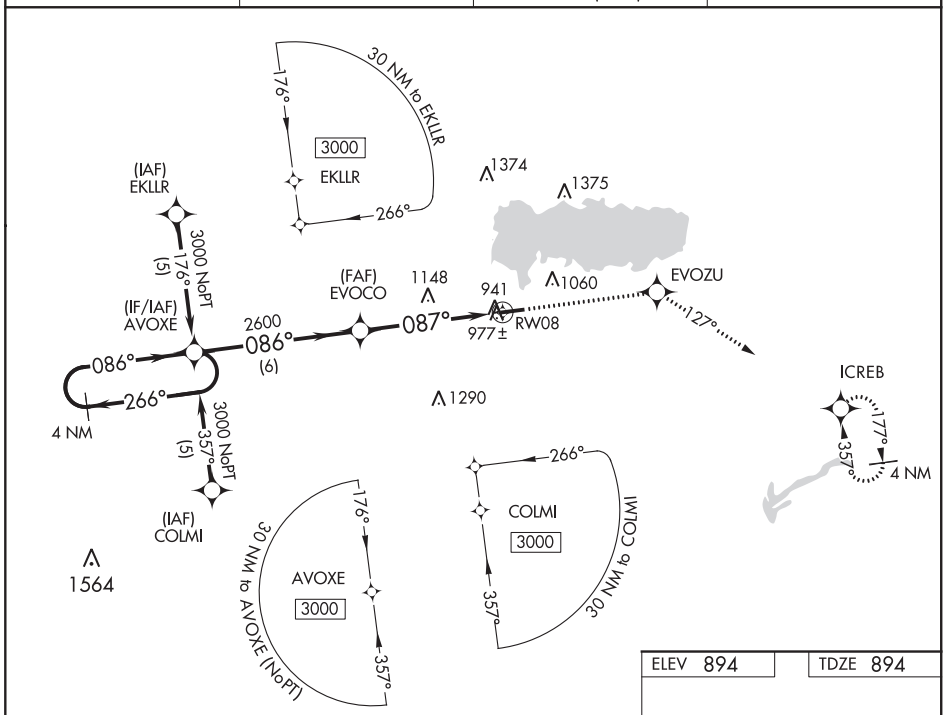
RNAV (GPS) RWY 8
LAKEFIELD (CQA)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA. Use Wapakoneta altimeter setting. When not received use James M. Cox Dayton Intl altimeter setting and increase all DA 73 feet and all MDA 80 feet; increase LPV Cats A/B/C visibility ¼ mile, LNAV/VNAV Cats A/B/C visibility ½ mile and LNAV and Circling Cat C visibility ¼ mile.

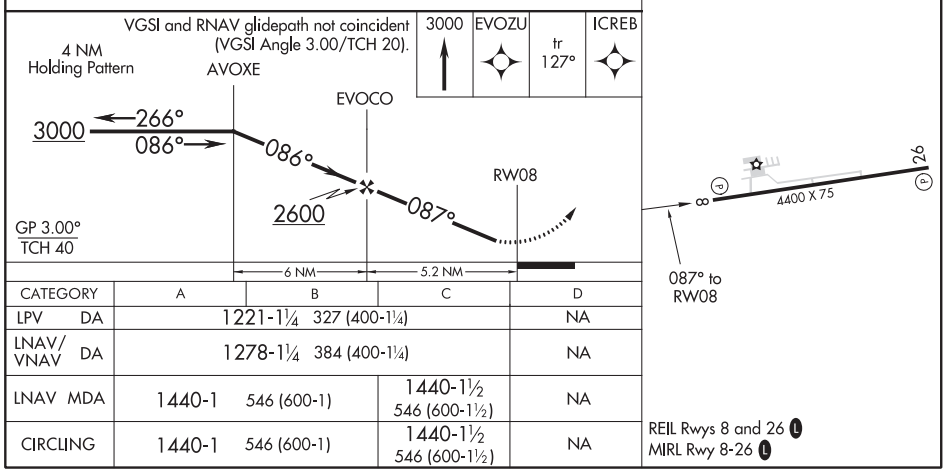
NA

MISSED APPROACH: Climb to 3000 direct EVOZU and via track 127° to ICREB and hold.

AXV AWOS-3-PT	COLUMBUS APP CON	UNICOM	
128.325	118.425 352.05	122.8 (CTAF)	123.3 L



ELEV 894 | TDZE 894



CATEGORY	A	B	C	D
LPV DA	1221-1¼ 327 (400-1¼)			NA
LNAV/VNAV DA	1278-1¼ 384 (400-1¼)			NA
LNAV MDA	1440-1 546 (600-1)		1440-1½ 546 (600-1½)	NA
CIRCLING	1440-1 546 (600-1)		1440-1½ 546 (600-1½)	NA

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

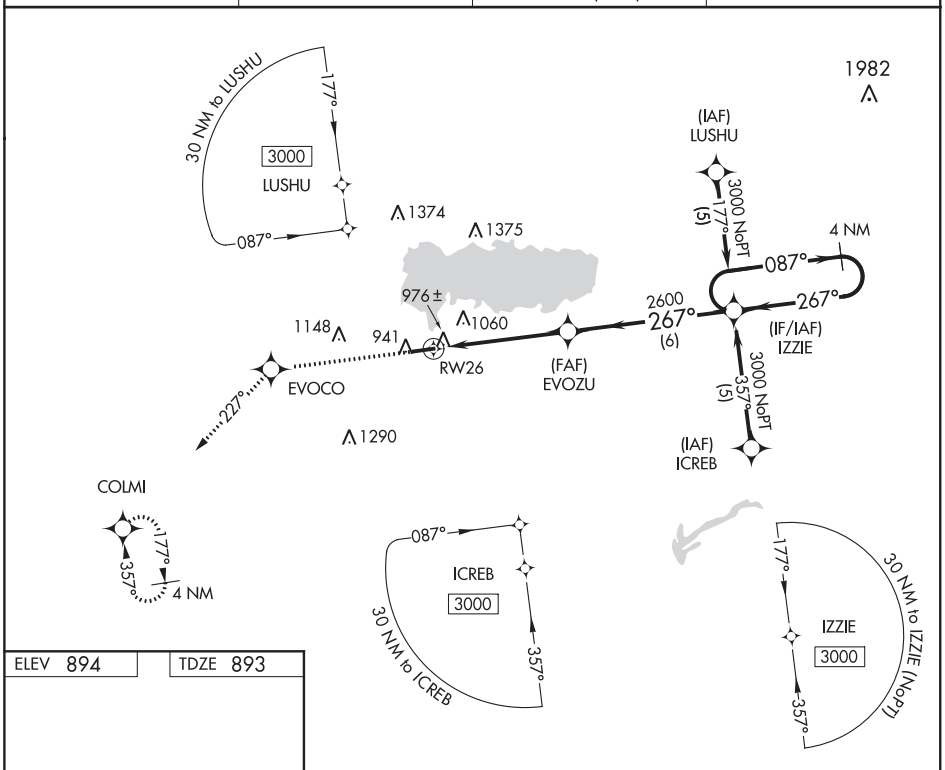
APP CRS	Rwy ldg	4400
267°	TDZE	893
	Apt Elev	894

RNAV (GPS) RWY 26
LAKEFIELD (CQA)

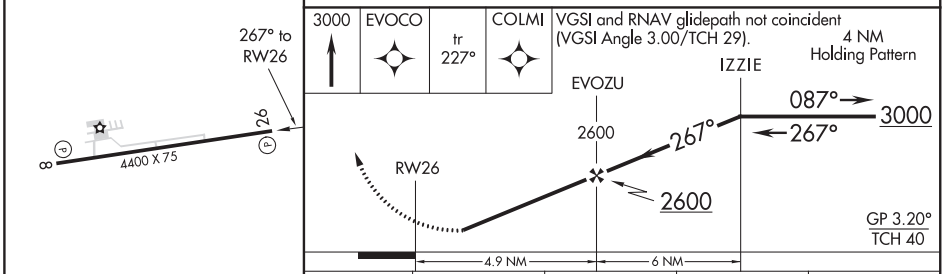
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA. Use Wapakoneta altimeter setting. When not received, use James M. Cox Dayton Intl altimeter setting and increase all DA 73 feet and all MDA 80 feet and increase LNAV/VNAV Cats A/B/C and LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct EVOCO and on track 227° to COLMI and hold.

AXV AWOS-3PT	COLUMBUS APP CON	UNICOM	
128.325	118.425 352.05	122.8 (CTAF)	123.3 L



ELEV 894 TDZE 893



CATEGORY	A	B	C	D
LNAV/VNAV DA	1277-1¼ 384 (400-1¼)			NA
LNAV MDA	1260-1 367 (400-1)			NA
CIRCLING	1320-1 426 (500-1)	1360-1 466 (500-1)	1360-1½ 466 (500-1½)	NA

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CHILLICOTHE, OHIO — AL-6138 (FAA) — 19115

RNAV (GPS) RWY 23
ROSS COUNTY (RZT)

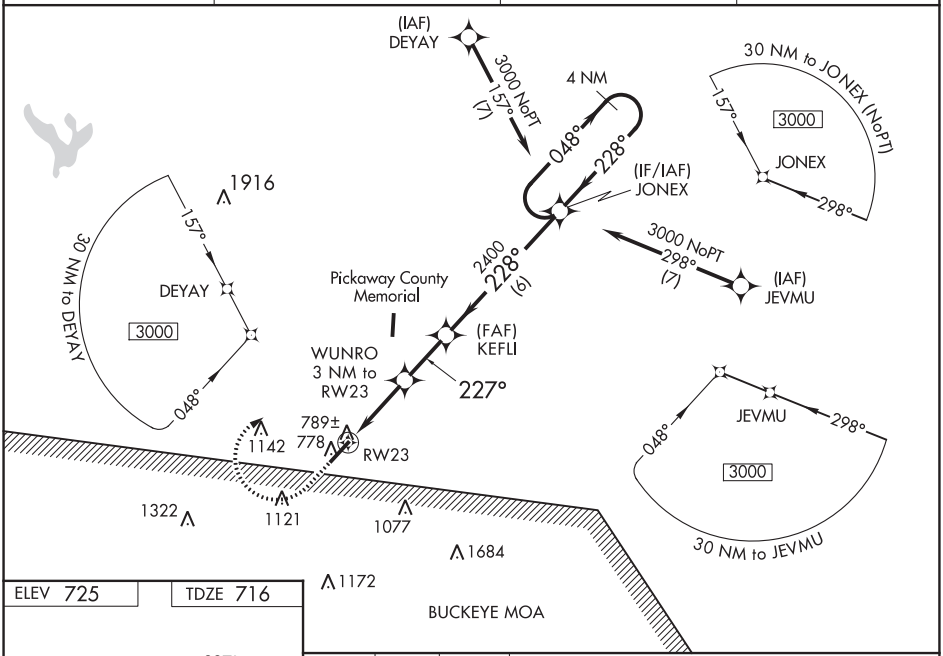
WAAS CH 69329 W23A	APP CRS 227°	Rwy ldg 5405	TDZE 716	Apt Elev 725

RNP APCH.

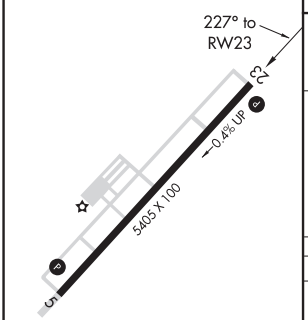
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 39°C (103°F). When local altimeter setting not received, use Rickenbacker Intl altimeter setting and increase all DA/MDA 60 feet, increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cat C and D and Circling Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Rickenbacker Intl altimeter setting. Rwy 23 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct JONEX and hold.

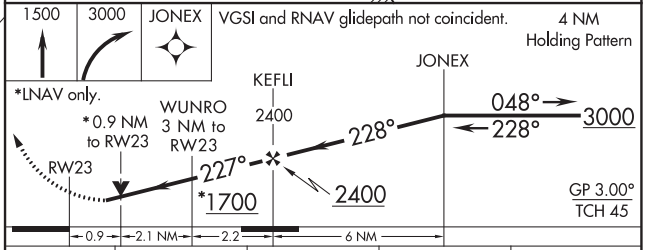
AWOS-3	COLUMBUS APP CON	UNICOM	
119.225	134.0 279.6	122.8 (CTAF)	123.0 L



ELEV 725 | TDZE 716



REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L



CATEGORY	A	B	C	D
LPV DA	966-¾ 250 (300-¾)			
LNAV/VNAV DA	1088-1¼ 372 (400-1¼)			
LNAV MDA	1040-1 324 (400-1)			
CIRCLING	1320-1 595 (600-1)	1380-1 655 (700-1)	1380-1¾ 655 (700-1¾)	1400-2¼ 675 (700-2¼)

CHILLICOTHE, OHIO
Amdt 1B 31JAN19

39°26′N-83°01′W

ROSS COUNTY (RZT)
RNAV (GPS) RWY 23

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR XUB	APP CRS	Rwy ldg	5405
112.5	204°	TDZE	716
		Apt Elev	725

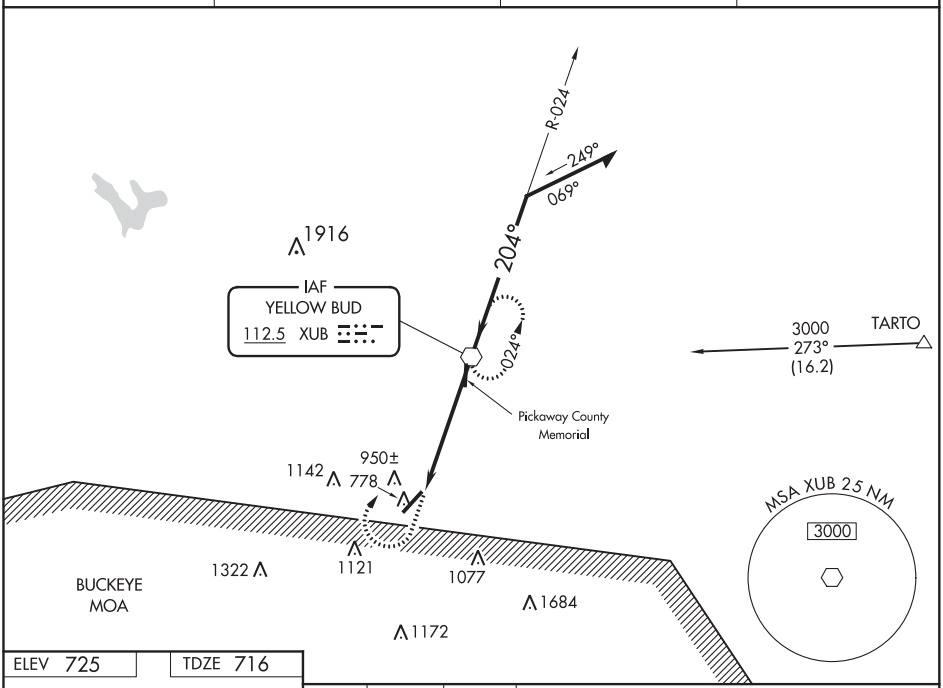
VOR RWY 23
ROSS COUNTY (RZT)

T
A NA

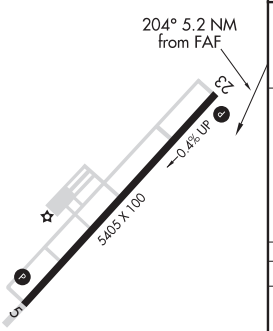
When local altimeter setting not received, use Rickenbacker Intl altimeter setting. When VGSI is inop, Straight-in and Circling Rwy 23 procedures NA at night.

MISSED APPROACH: Climb to 3000 then right turn direct XUB VOR and hold.

AWOS-3	COLUMBUS APP CON	UNICOM	
119.225	134.0 279.6	122.8 (CTAF)	123.0 L

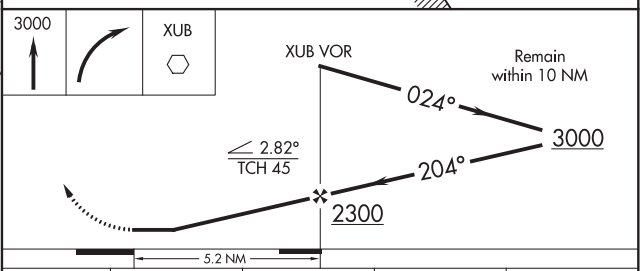


ELEV 725 TDZE 716



REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

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



CATEGORY	A	B	C	D
S-23	1220-1 504 (500-1)		1220-1½ 504 (500-1½)	
CIRCLING	1340-1 615 (700-1)	1360-1 635 (700-1)	1380-1¾ 655 (700-1¾)	1400-2¼ 675 (700-2¼)
RICKENBACKER INTL ALTIMETER SETTING MINIMUMS				
S-23	1280-1 564 (600-1)		1280-1⅝ 564 (600-1⅝)	
CIRCLING	1400-1 675 (700-1)	1420-1 695 (700-1)	1440-2 715 (800-2)	1460-2¼ 735 (800-2¼)

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EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-LUK	APP CRS	Rwy ldg	6101
110.9	205°	TDZE	475
Chan 46		Apt Elev	483

ILS or LOC RWY 21L

CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)

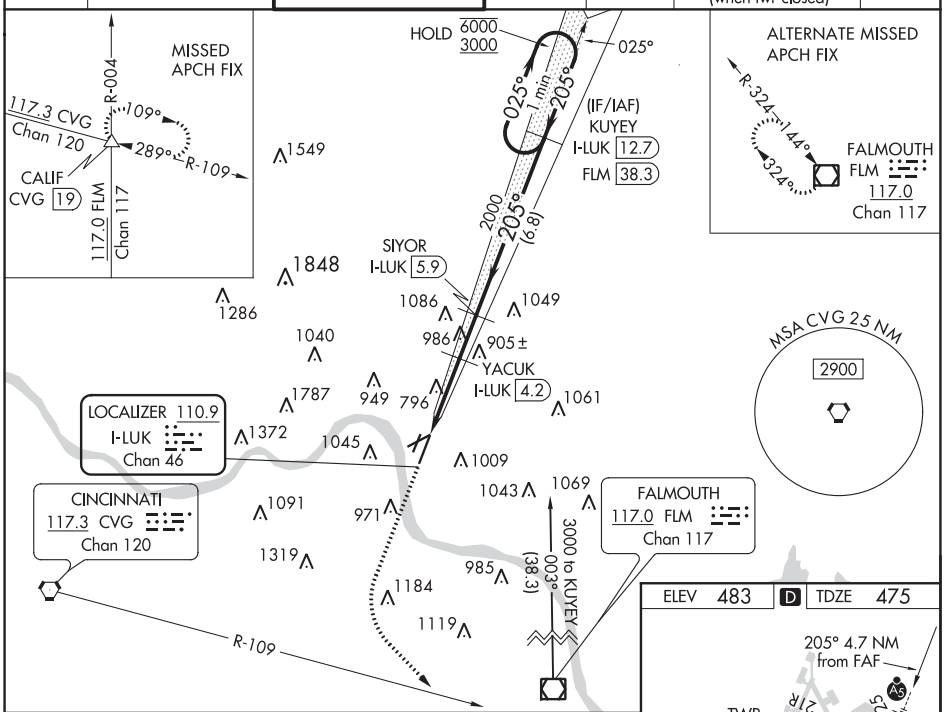
DME required.

Circling NA for Cat D northwest of Rwys 7 and 21R. Rwy 21L helicopter visibility reduction below ¾ SM NA. VDP NA when using Cincinnati/Northern Kentucky Intl altimeter setting. When local altimeter setting not received, use Cincinnati/Northern Kentucky Intl altimeter setting and increase all DA 86 feet and all MDA 100 feet; increase S-LOC 21L Cat A/B visibility to RVR 5500 and Cat C/D to 2 SM. For inop ALS when using Cincinnati/Northern Kentucky Intl altimeter setting and increase S-ILS 21L all Cats visibility to RVR 6000 and S-LOC 21L Cat A to RVR 5500 and Cat C/D to 2½ SM. For inop ALS, increase S-LOC 21L Cat A/B visibility to RVR 5500, and Cat C/D to 2 SM. Circling Rwy 3L, 7, 21R NA at night.

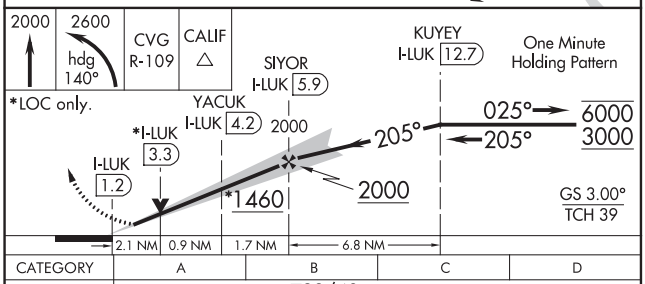
MALSR

MISSED APPROACH: Climb to 2000 then climbing left turn to 2600 on heading 140° and CVG VORTAC R-109 to CALIF/CVG 19 DME and hold.

ATIS	CINCINNATI APP CON	LUNKEN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
120.25	121.0 254.25	118.7 (CTAF) L 257.8	121.9	121.9	124.9	122.95

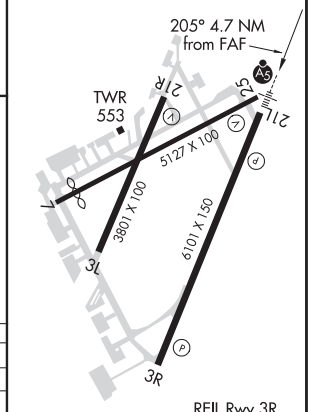


2000	2600 hdg 140°	CVG R-109	CALIF △



CATEGORY	A	B	C	D
S-ILS 21L	798/40 323 (400-¾)			
S-LOC 21L	1200/40 725 (800-¾)		1200-1⅝ 725 (800-1⅝)	
C CIRCLING	1260-1 777 (800-1)	1360-1¼ 877 (900-1¼)	1360-2½ 877 (900-2½)	1400-3 917 (1000-3)

ELEV 483	D	TDZE 475



EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	6101
025°	TDZE	481
	Apt Elev	483

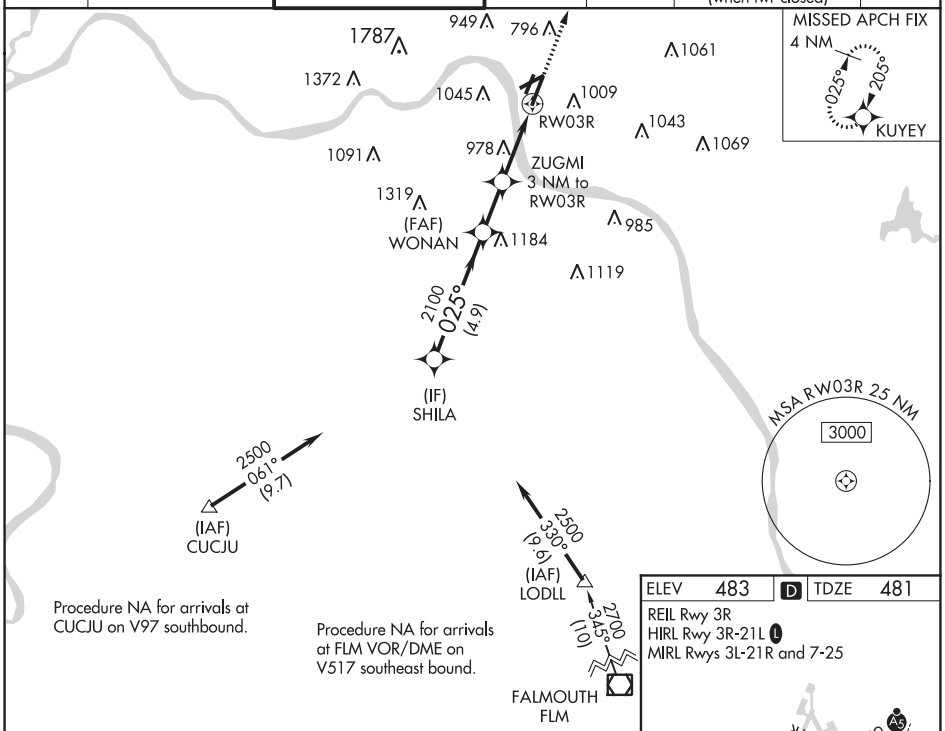
RNAV (GPS) RWY 3R
CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)

RNP APCH.

T A Circling NA for Cat D north of Rwy 7 and northwest of Rwy 21R. Circling Rwy 3L, 7, 21R NA at night. Rwy 3R helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Cincinnati/Northern Kentucky Intl altimeter setting and increase all MDA 100 feet and LNAV Cat A visibility ¼ SM; increase Circling Cat B/D visibility ¼ SM and Circling Cat C visibility ½ SM. VDP NA when using Cincinnati/Northern Kentucky Intl altimeter setting.

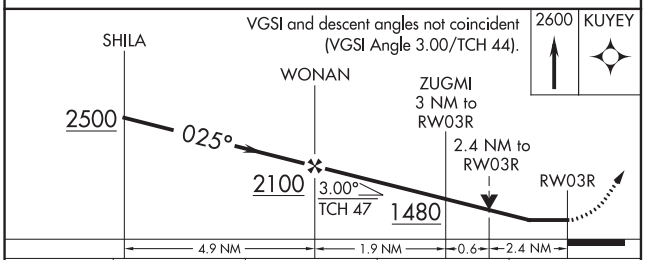
MISSED APPROACH: Climb to 2600 direct KUYEY and hold.

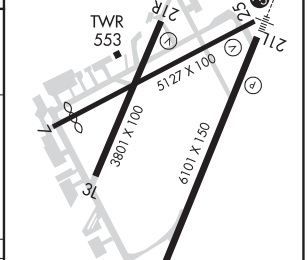
ATIS	CINCINNATI APP CON	LUNKEN TOWER ★	GND CON	CLNC DEL	CLNC DEL	UNICOM
120.25	121.0 254.25	118.7 (CTAF) L 257.8	121.9	121.9	124.9 (when twr closed)	122.95



ELEV	483	D	TDZE	481

REIL Rwy 3R
HIRL Rwy 3R-21L L
MIRL Rwys 3L-21R and 7-25





CATEGORY	A	B	C	D
LNAV MDA	1280-1 799 (800-1)	1280-1¼ 799 (800-1¼)	1280-2½	799 (800-2½)
C CIRCLING	1300-1¼ 817 (900-1¼)	1360-1¼ 877 (900-1¼)	1360-2½ 877 (900-2½)	1360-2¾ 877 (900-2¾)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CINCINNATI, OHIO — AL-83 (FAA) — 19339

WAAS CH 42511 W21A	APP CRS 205°	Rwy ldg 6101 TDZE 475 Apt Elev 483

RNAV (GPS) RWY 21L
CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)

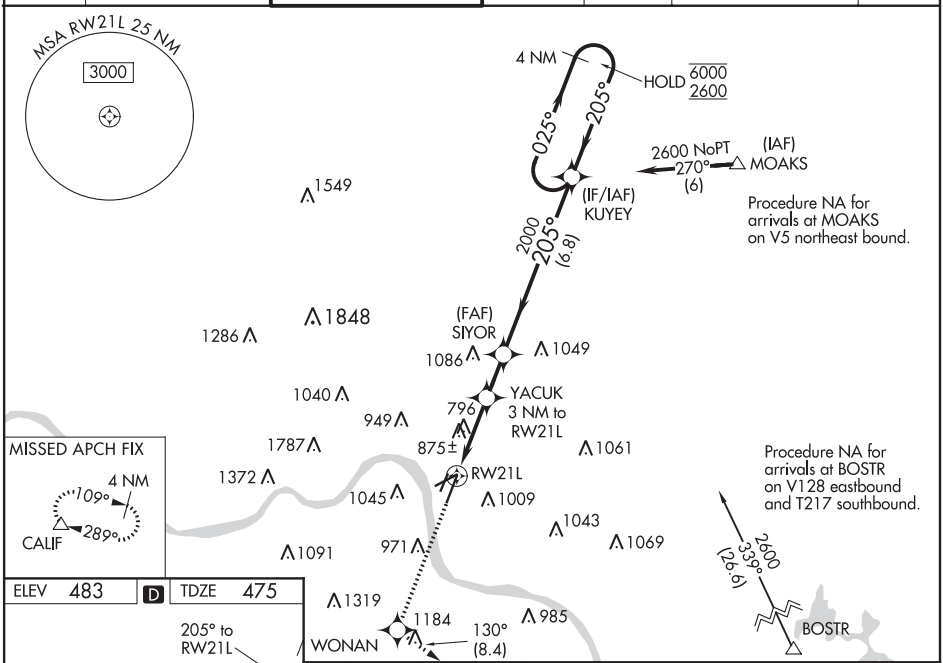
RNP APCH.

Circling NA for Cat D north of Rwy 7 and northwest of Rwy 21R. Circling Rwy 3L, 7, 21R NA at night. Rwy 21L helicopter visibility reduction below ¾SM NA. Inop table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LPV all Cats visibility to RVR 4500, LNAV Cats A/B visibility to RVR 5500 and LNAV Cats C/D visibility to 2 SM.

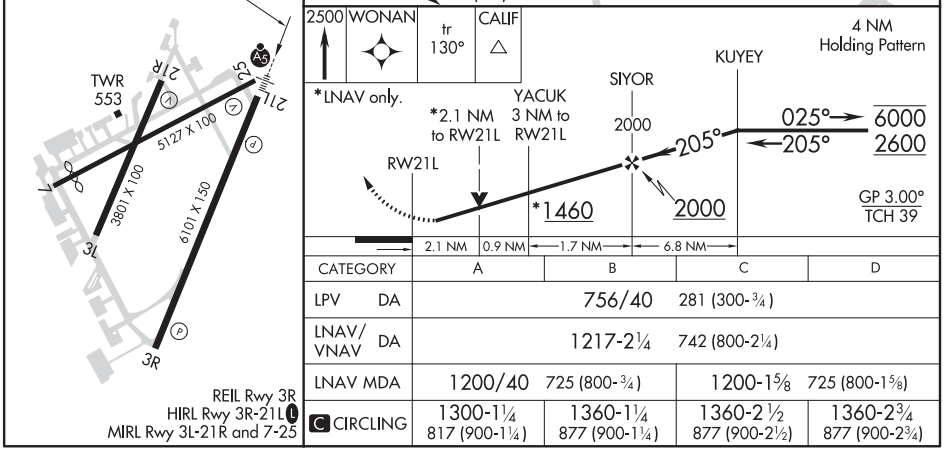
MALSR

MISSED APPROACH: Climb to 2500 direct WONAN and on track 130° to CALIF and hold, continue climb-in-hold to 2600.

ATIS	CINCINNATI APP CON	LUNKEN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
120.25	121.0 254.25	118.7 (CTAF) L 257.8	121.9	121.9	124.9	122.95



ELEV 483 D TDZE 475



REIL Rwy 3R
HIRL Rwy 3R-21L L
MIRL Rwy 3L-21R and 7-25

CATEGORY		A	B	C	D
LPV	DA	756/40 281 (300-¾)			
LNAV/VNAV	DA	1217-2¼ 742 (800-2¼)			
LNAV MDA		1200/40 725 (800-¾)		1200-1⅝ 725 (800-1⅝)	
C CIRCLING		1300-1¼ 817 (900-1¼)	1360-1¼ 877 (900-1¼)	1360-2½ 877 (900-2½)	1360-2¾ 877 (900-2¾)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86701 W25A	APP CRS 246°	Rwy ldg 5127 TDZE 478 Apt Elev 483

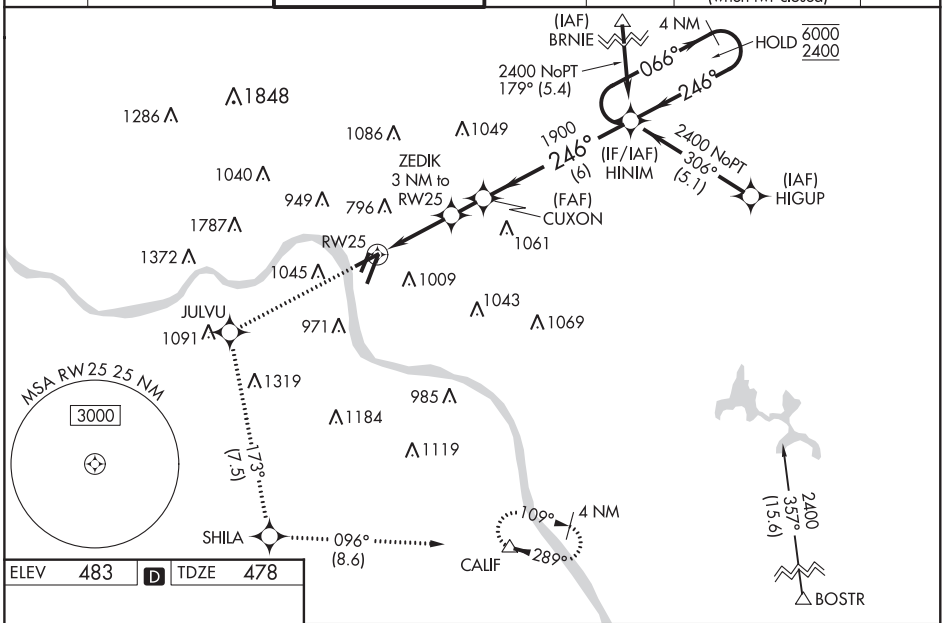
RNAV (GPS) RWY 25
CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)

RNP APCH.

Circling NA for Cat D north of Rwy 7 and northwest of Rwy 21R. Circling Rwy 3L, 7, 21R NA at night. Baro-VNAV and VDP NA when using Cincinnati/Northern Kentucky Intl altimeter setting. Rwy 25 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. When local altimeter setting not received, use Cincinnati/Northern Kentucky Intl altimeter setting and increase LPV DA to 961 feet, all visibilities ⅛ SM; increase LNAV/VNAV DA to 1248 feet; increase all MDAs 100 feet, LNAV Cat B visibility ¼ SM, and LNAV Cat C/D visibility ½ SM; increase Circling Cat B/D visibility ¼ SM and Circling Cat C visibility ½ SM.

MISSED APPROACH: Climb to 2500 direct JULVU and on track 173° to SHILA and on track 096° to CALIF and hold, continue climb-in-hold to 2600.

ATIS	CINCINNATI APP CON	LUNKEN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
120.25	121.0 254.25	118.7 (CTAF) L 257.8	121.9	121.9	124.9	122.95



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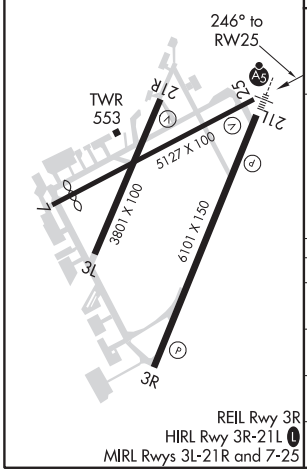
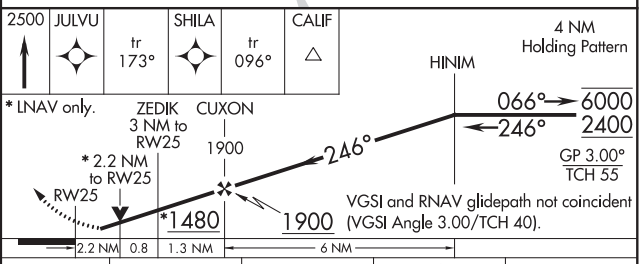
ELEV 483 D TDZE 478



REIL Rwy 3R
HIRL Rwy 3R-21L L
MIRL Rwys 3L-21R and 7-25



CATEGORY	A	B	C	D
LPV DA	875-1¼ 397 (400-1¼)			
LNAV/VNAV DA	1162-2½ 684 (700-2½)			
LNAV MDA	1160-1 682 (700-1)		1160-2 682 (700-2)	
C CIRCLING	1300-1¼ 817 (900-1¼)	1360-1¼ 877 (900-1¼)	1360-2½ 877 (900-2½)	1360-2¾ 877 (900-2¾)

LOC/DME I-LUK 110.9 Chan 46	APP CRS 025°	Rwy ldg 6101 TDZE 481 Apt Elev 483

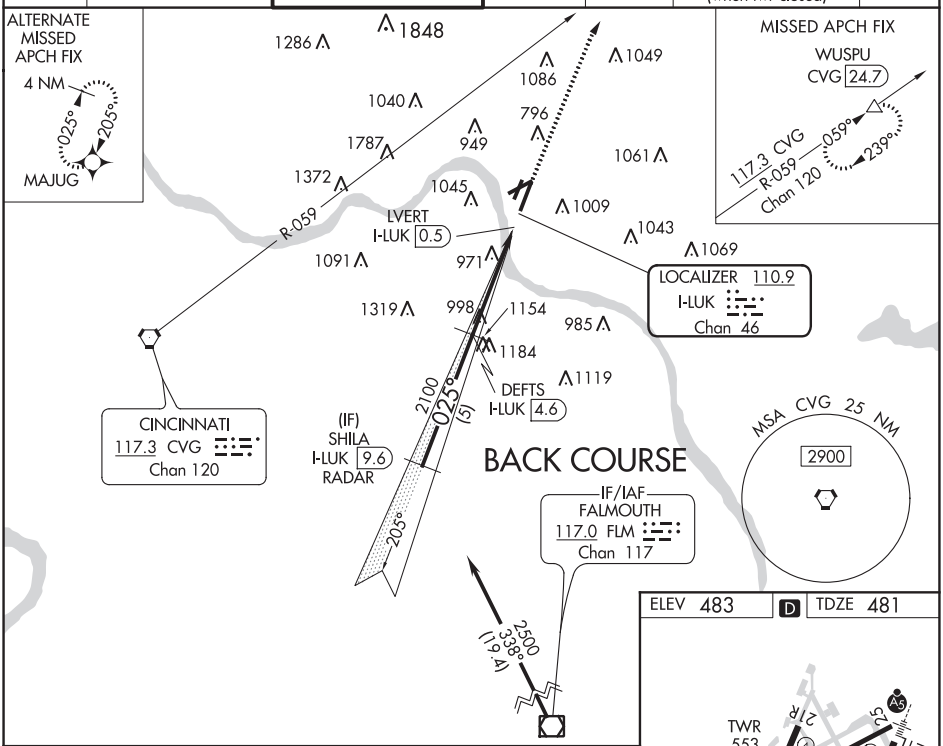
LOC BC RWY 3R
CINCINNATI MUNI AIRPORT LUNKEN FIELD (LUK)

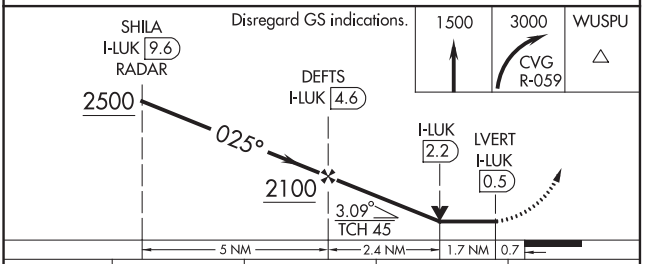
DME or RADAR required for procedure entry.
DME required.

T A Circling NA for Cat D northwest of Rwy 7-21R. Circling Rwy 3L, 7, 21R NA at night. VDP NA with Cincinnati/Northern Kentucky Intl altimeter setting. Rwy 3R helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Cincinnati/Northern Kentucky Intl altimeter setting increase all MDA 100 feet; increase Circling Cat B visibility ¼ mile, increase Circling Cat C visibility ½ mile.

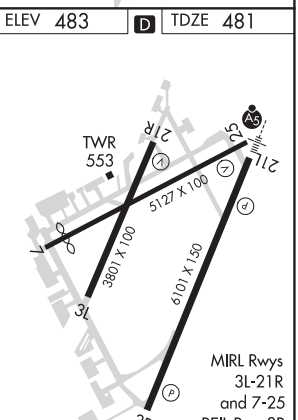
MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on CVG VORTAC R-059 to WUSPU/CVG 24.7 DME and hold.

ATIS	CINCINNATI APP CON	LUNKEN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
120.25	121.0 254.25	118.7 (CTAF) L 257.8	121.9	121.9	124.9	122.95





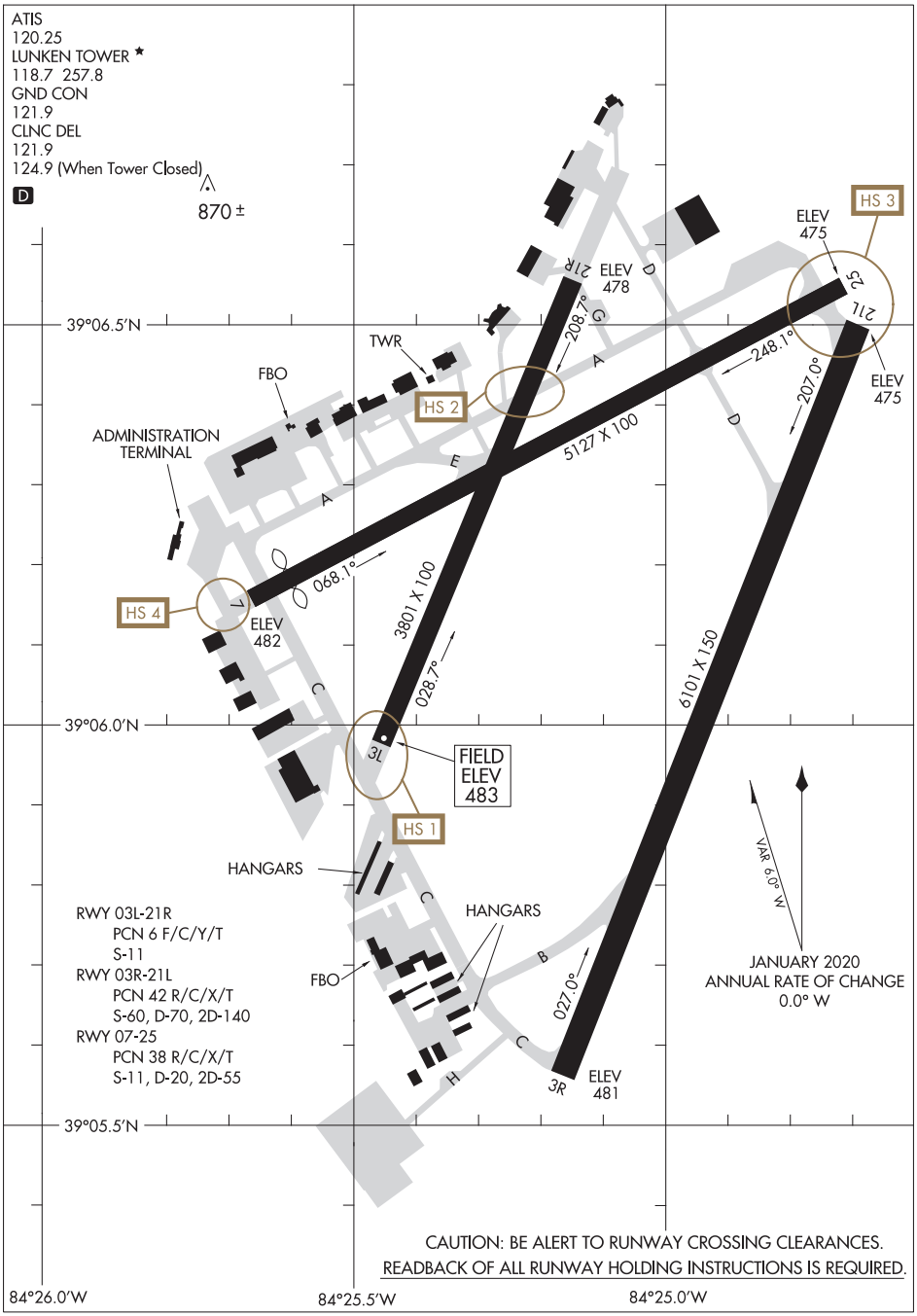
CATEGORY	A	B	C	D
S-LOC 3R	1300-1 819 (900-1)	1300-1¼ 819 (900-1¼)	1300-2½ 819 (900-2½)	
C CIRCLING	1300-1¼ 817 (900-1¼)	1360-1¼ 877 (900-1¼)	1360-2½ 877 (900-2½)	1400-3 917 (1000-3)



FAF to MAP 4.1 NM

Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

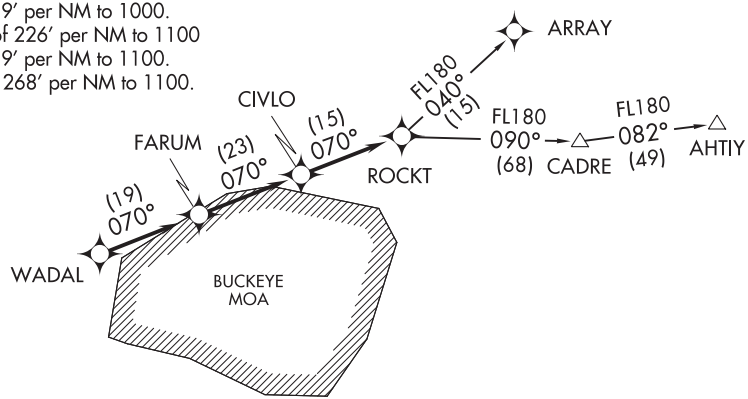
EC-2, 25 FEB 2021 to 22 APR 2021

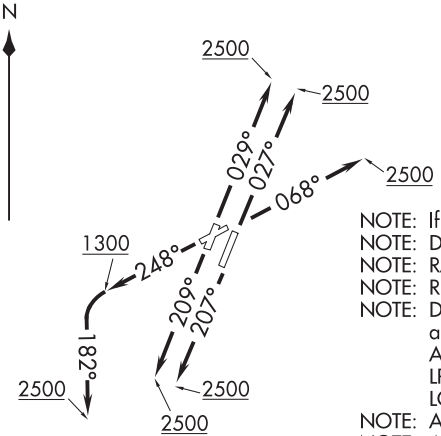
ATIS 120.25
LUNKEN TOWER ★
118.7 (CTAF) 257.8
GND CON
121.9
CLNC DEL
121.9
CLNC DEL
124.9 (When twr closed)
CINCINNATI DEP CON
121.0 254.25

TAKEOFF MINIMUMS

Rwy 3L: 400-2 with minimum climb of 226′ per NM to 1300
or standard with minimum climb of 423′ per NM to 1000.
Rwy 3R: 400-2 with minimum climb of 233′ per NM to 1300
or standard with minimum climb of 384′ per NM to 1100.
Rwy 7: 400-1¾ with minimum climb of 279′ per NM to 1000
or standard with minimum climb of 451′ per NM to 1000.
Rwy 21L: 500-2½ with minimum climb of 254′ per NM to 1100
or standard with minimum climb of 439′ per NM to 1000.
Rwy 21R: 500-2¾ with minimum climb of 226′ per NM to 1100
or standard with minimum climb of 489′ per NM to 1100.
Rwy 25: 600-2½ with minimum climb of 268′ per NM to 1100.

TOP ALTITUDE: ASSIGNED BY ATC.





NOTE: If unable to accept climb rates, advise ATC on initial contact.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: Departure procedure limited to aircraft with the following destination airports and departure times as indicated:
Anytime - ABE, AGC, ALB, AVP, BDL, BKL, BOS, BWI, CAK, CGF, CLE, LNN, LPR, MDT, MHT, PHL, PIT, PNE, PVD, PWM, SWF, TTN, UNV, and overseas flights.
LGA between 1000-1800 UTC.
NOTE: ARRAY TRANSITION (ROCKT1.ARRAY) limited to aircraft landing: BKL, CAK, CLE, CGF, LNN, LPR.
NOTE: Accelerate to 250K, if unable advise ATC.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3L: Climb heading 029° to 2500, for vectors to WADAL, thence . . . .
TAKEOFF RUNWAY 3R: Climb heading 027° to 2500, for vectors to WADAL, thence . . . .
TAKEOFF RUNWAY 7: Climb heading 068° to 2500, for vectors to WADAL, thence . . . .
TAKEOFF RUNWAY 21L: Climb heading 207° to 2500, for vectors to WADAL, thence . . . .
TAKEOFF RUNWAY 21R: Climb heading 209° to 2500, for vectors to WADAL, thence . . . .
TAKEOFF RUNWAY 25: Climb heading 248° to 1300, then climbing left turn heading 182° to 2500, for vectors to WADAL, thence . . . .

. . . . on depicted route to ROCKT. Maintain ATC assigned altitude. Expect clearance to filed altitude within 10 minutes after departure.

AHTIY TRANSITION (ROCKT1.AHTIY)
ARRAY TRANSITION (ROCKT1.ARRAY)

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CIRCLEVILLE, OHIO

AL-5995 (FAA)

19283

RNAV (GPS) RWY 1

PICKAWAY COUNTY MEMORIAL (CYO)

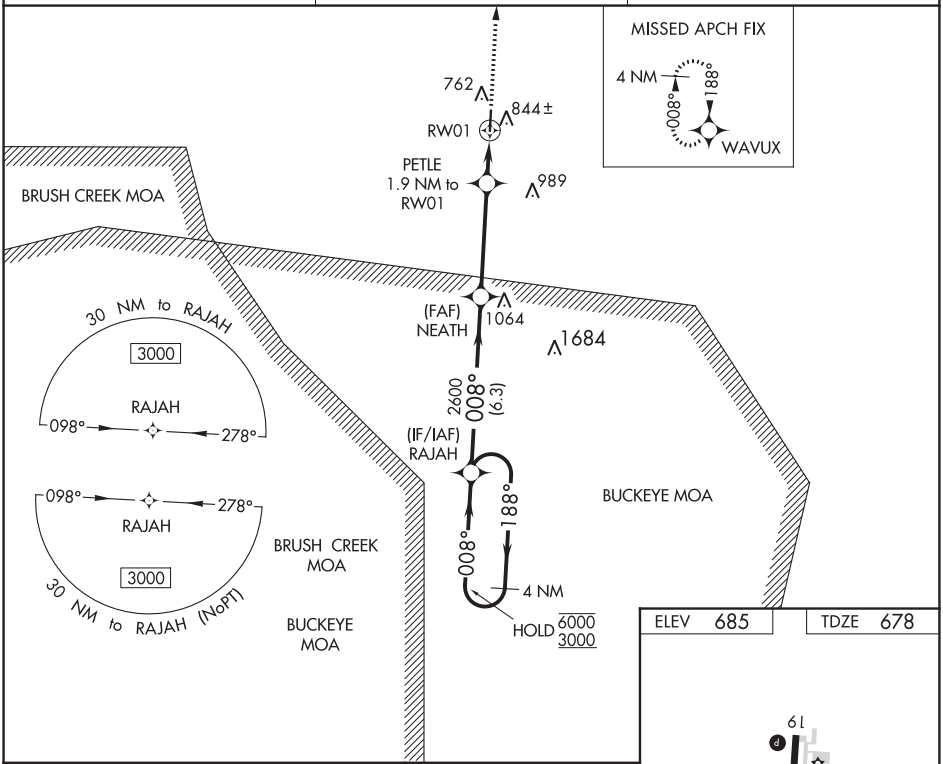
APP CRS	Rwy ldg	4346
008°	TDZE	678
	Apt Elev	685

RNP APCH.

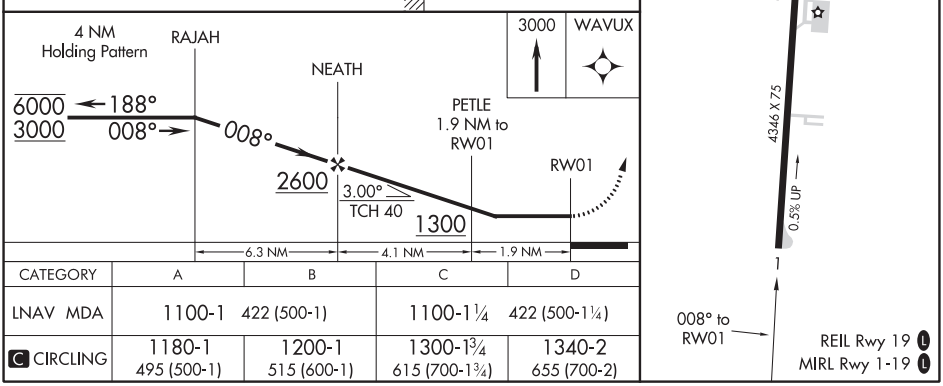
Use Chillicothe altimeter setting, when not received use Rickenbacker Intl altimeter setting and increase all MDAs 60 feet, and Cats C and D visibility ¼ SM. Rwy 1 helicopter visibility reduction below 1 SM NA. Straight-In and Circling Rwy 1 NA at night.

MISSED APPROACH: Climb to 3000 direct WAVUX and hold.

RZT AWOS-3	COLUMBUS APP CON	UNICOM
119.225	134.0 279.6	122.7 (CTAF) L



ELEV 685 | TDZE 678



CATEGORY	A	B	C	D
LNAV MDA	1100-1 422 (500-1)		1100-1¼ 422 (500-1¼)	
C CIRCLING	1180-1 495 (500-1)	1200-1 515 (600-1)	1300-1¾ 615 (700-1¾)	1340-2 655 (700-2)

CIRCLEVILLE, OHIO
Orig-A 20JUN19

39°31′N-82°59′W

PICKAWAY COUNTY MEMORIAL (CYO)
RNAV (GPS) RWY 1

EC-2, 25 FEB 2021 to 22 APR 2021

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WAAS CH 87038 W19A	APP CRS 188°	Rwy ldg 4346 TDZE 685 Apt Elev 685

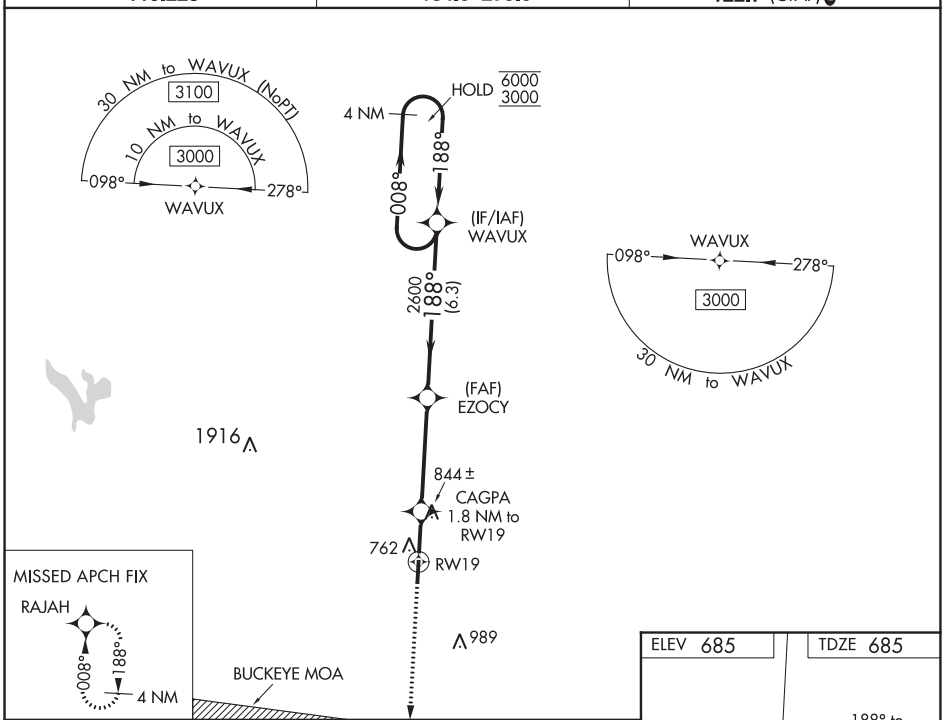
RNAV (GPS) RWY 19
PICKAWAY COUNTY MEMORIAL (CYO)

RNP APCH.

T A Baro-VNAV and VDP NA when using Rickenbacker Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Use Chillicothe altimeter setting, when not received use Rickenbacker Intl altimeter setting and increase LPV DA to 985 feet, LNAV/VNAV DA to 1150 feet, and all visibilities ¼ SM. Increase all MDAs 60 feet and Cats C and D visibility ¼ SM. Circling Rwy 1 NA at night. Rwy 19 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct RAJAH and hold.

RZT AWOS-3	COLUMBUS APP CON	UNICOM
119.225	134.0 279.6	122.7 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	935-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1100-1⅜ 415 (500-1⅜)			
LNAV MDA	1100-1 415 (500-1)		1100-1⅛ 415 (500-1⅛)	
C CIRCLING	1180-1 495 (500-1)	1200-1 515 (600-1)	1300-1¾ 615 (700-1¾)	1340-2 655 (700-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

CIRCLEVILLE, OHIO

AL-5995 (FAA)

20254

VOR RWY 19

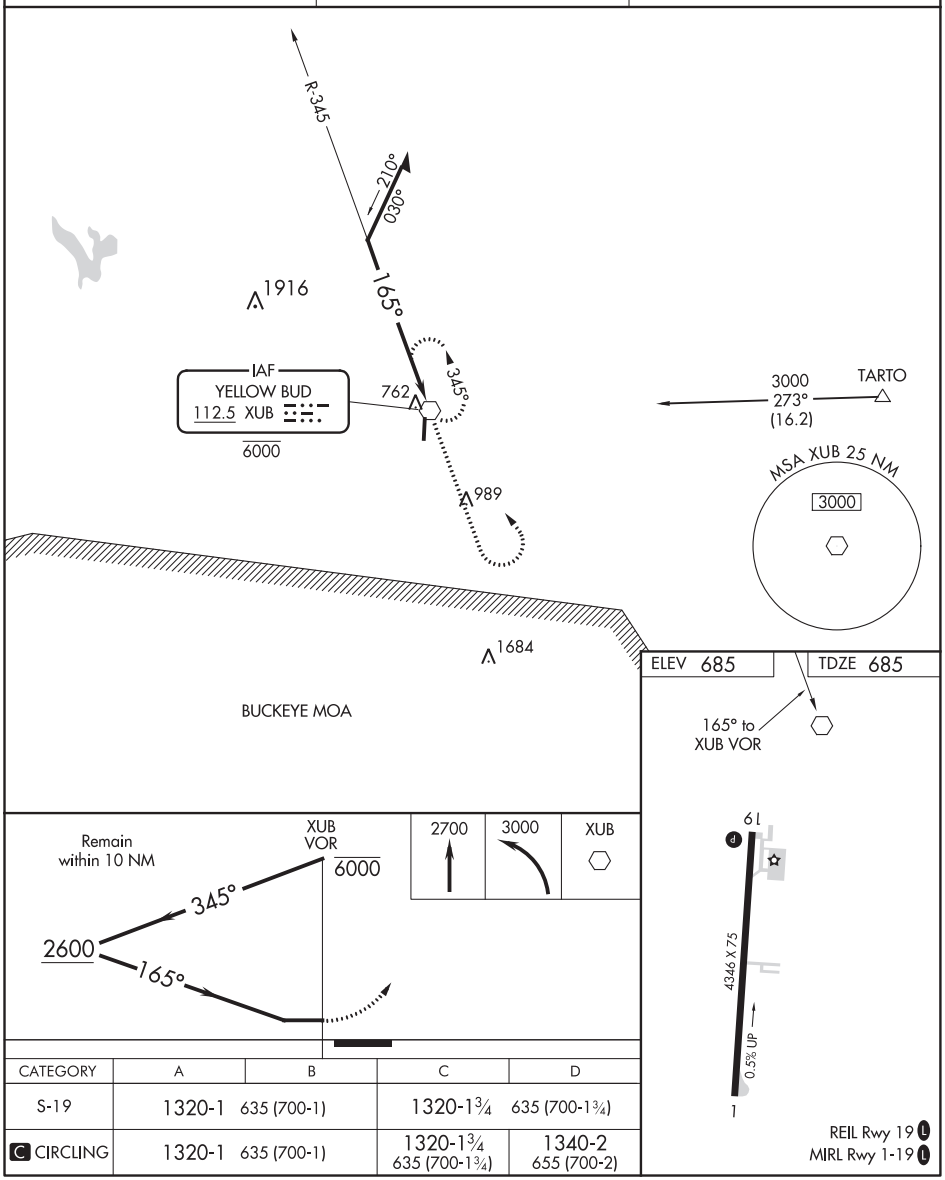
PICKAWAY COUNTY MEMORIAL (CYO)

VOR XUB	APP CRS	Rwy ldg	4346
112.5	165°	TDZE	685
		Apt Elev	685

Use Chillicothe altimeter setting, when not received use Rickenbacker Intl altimeter setting and increase all MDAs 60 feet and Cats C and D visibility ¼ SM. Circling Rwy 1 NA at night. Rwy 19 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 then climbing left turn to 3000 direct XUB VOR and hold.

RZT AWOS-3	COLUMBUS APP CON	UNICOM
119.225	134.0 279.6	122.7 (CTAF) L



CATEGORY	A	B	C	D
S-19	1320-1 635 (700-1)		1320-1¾ 635 (700-1¾)	
C CIRCLING	1320-1 635 (700-1)		1320-1¾ 635 (700-1¾)	1340-2 655 (700-2)

CIRCLEVILLE, OHIO
Amdt 3A 20JUN19

39°31′N - 82°59′W

PICKAWAY COUNTY MEMORIAL (CYO)
VOR RWY 19

EC-2, 25 FEB 2021 to 22 APR 2021

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ILS or LOC RWY 24R
BURKE LAKEFRONT (BKL)

LOC/DME I-BFT	APP CRS	Rwy ldg	24R	24L
109.75	245°	TDZE	6003	5199
Chan 34 (Y)		Apt Elev	583	584
			584	584

RADAR or DME required for procedure entry.

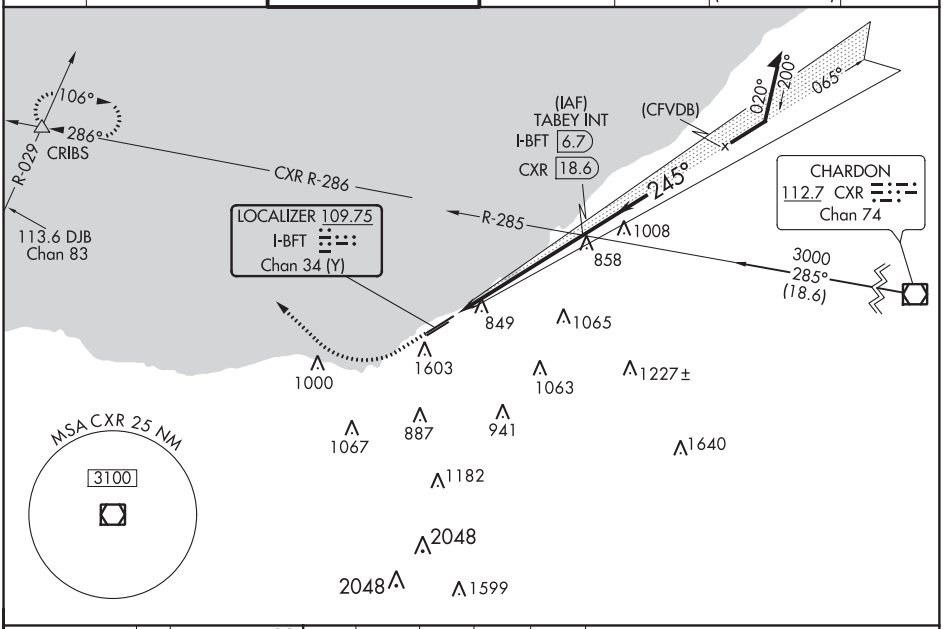
Circling Rwy 6R NA at night. Rwy 24R helicopter visibility reduction below ¾ SM NA. Circling NA southeast of Rwys 6R and 24L. S-ILS minimums NA when control tower closed.

-23°C

MALSF

MISSED APPROACH: Climb to 1000 then climbing right turn to 2000 on heading 350° to CXR R-286 then climb to 3000 on CXR VOR/DME R-286 to CRIBS INT and hold.

ATIS	CLEVELAND APP CON	LAKEFRONT TOWER *	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
125.25	125.35 346.325	124.3 (CTAF) L 339.8	121.9 339.8	339.8	121.9	122.95

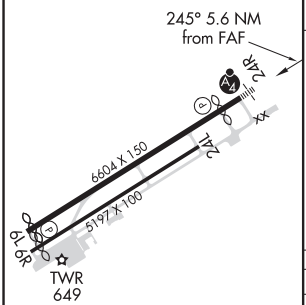


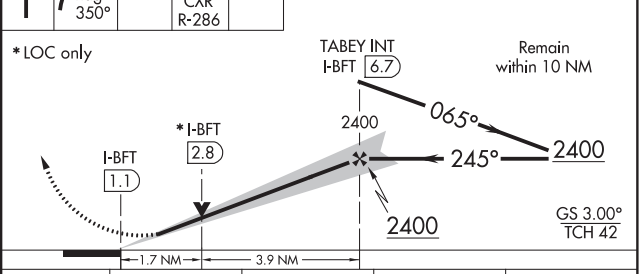
ELEV 584 D

TDZE 24R	583
TDZE 24L	584

1000	2000	CXR R-286	3000	CRIBS
↑	hdg 350°		CXR R-286	△

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 42).





REIL Rwys 6L and 24L
HIRL Rwys 6L-24R and 6R-24L

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

CATEGORY	A	B	C	D
S-ILS 24R	917-¾ 334 (400-¾)			
S-LOC 24R	1160-¾ 577 (600-¾)		1160-1⅜ 577 (600-1⅜)	
SIDESTEP 24L	1160-1 576 (600-1)		1160-1⅝ 576 (600-1⅝)	
CIRCLING	1160-1 577 (600-1)		1160-1⅝ 577 (600-1⅝)	1160-2 577 (600-2)

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CLEVELAND, OHIO | AL-5370 (FAA) | 20310

RNAV (GPS) RWY 24R
BURKE LAKEFRONT (BKL)

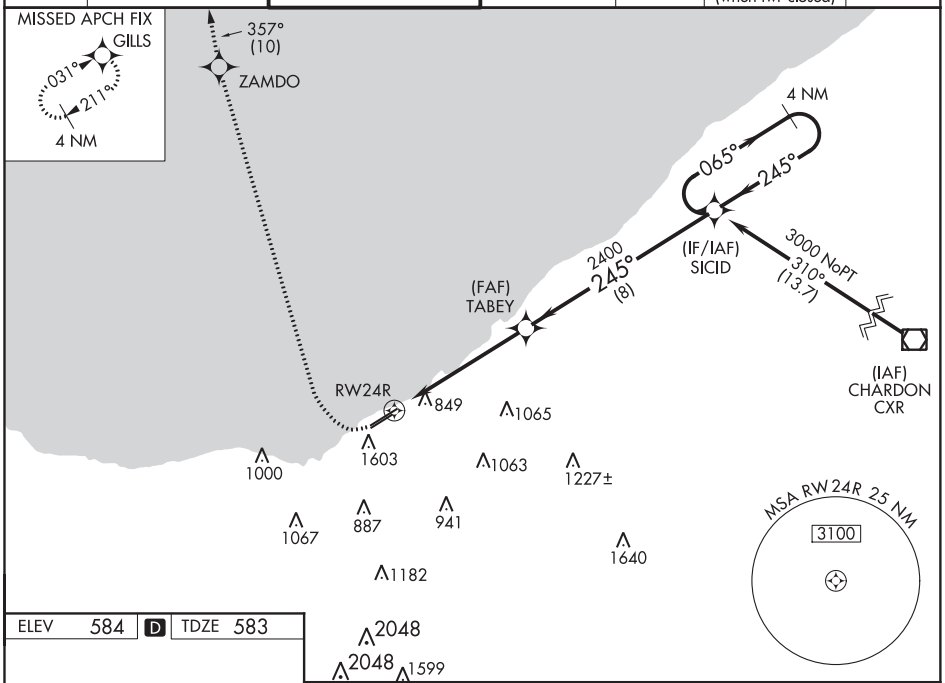
WAAS CH 77621 W24A	APP CRS 245°	Rwy ldg 6003 TDZE 583 Apt Elev 584

RNP APCH.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 40°C (104°F). Circling Rwy 6R NA at night. Rwy 24R helicopter visibility reduction below ¾ SM NA. Circling NA southeast of Rwy 6R and 24L. For inop ALS, increase LNAV Cat C and D visibility to 3 SM.
-23°C

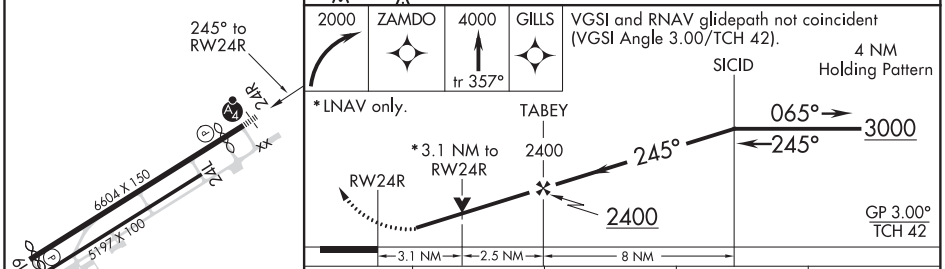
MALSF

MISSED APPROACH: Climbing right turn to 2000 direct ZAMDO then climb to 4000 on track 357° to GILLS and hold. # Missed approach requires minimum climb of 421 feet per NM to 1900.

ATIS	CLEVELAND APP CON	LAKEFRONT TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
125.25	125.35 346.325	124.3 (CTAF) L 339.8	121.9 339.8	339.8	121.9	122.95



ELEV 584 D TDZE 583



CATEGORY	A	B	C	D
LPV DA	1401-2½ 818 (900-2½)			
LPV DA #	NA		1249-1⅞ 666 (700-1⅞)	
LNAV/VNAV DA	1324-2½ 741 (800-2½)			
LNAV MDA	1620-1 1037 (1100-1)	1620-1¼ 1037 (1100-1¼)	1620-2½ 1037 (1100-2½)	
CIRCLING	1620-1¼ 1036 (1100-1¼)		1620-3 1036 (1100-3)	

REIL Rwys 6L and 24L
HIRL Rwys 6L-24R and 6R-24L

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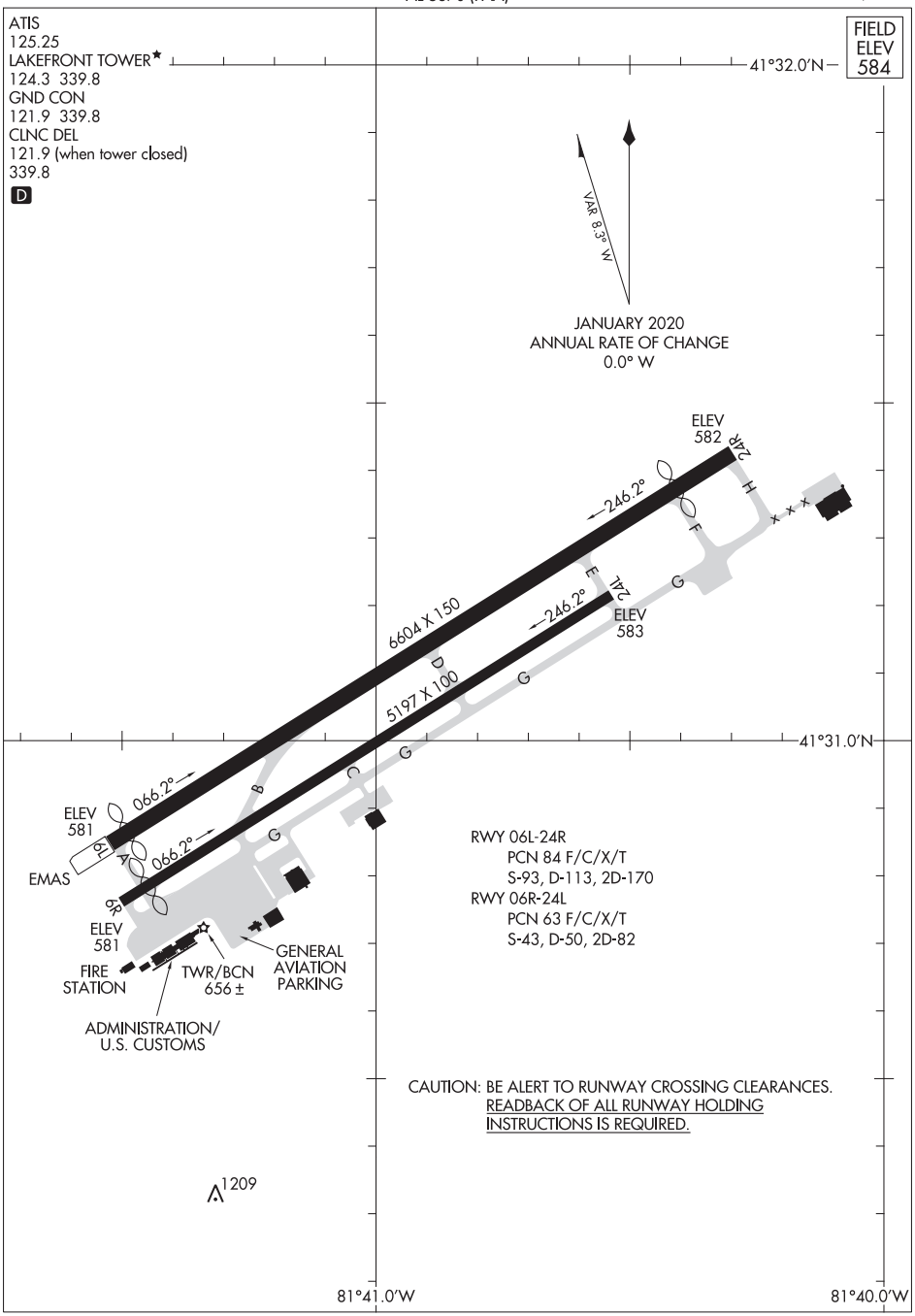
EC-2, 25 FEB 2021 to 22 APR 2021

AL-5370 (FAA)



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EC-2, 25 FEB 2021 to 22 APR 2021

(AHMET4.KKIDS) 20086 AL-5370 (FAA)

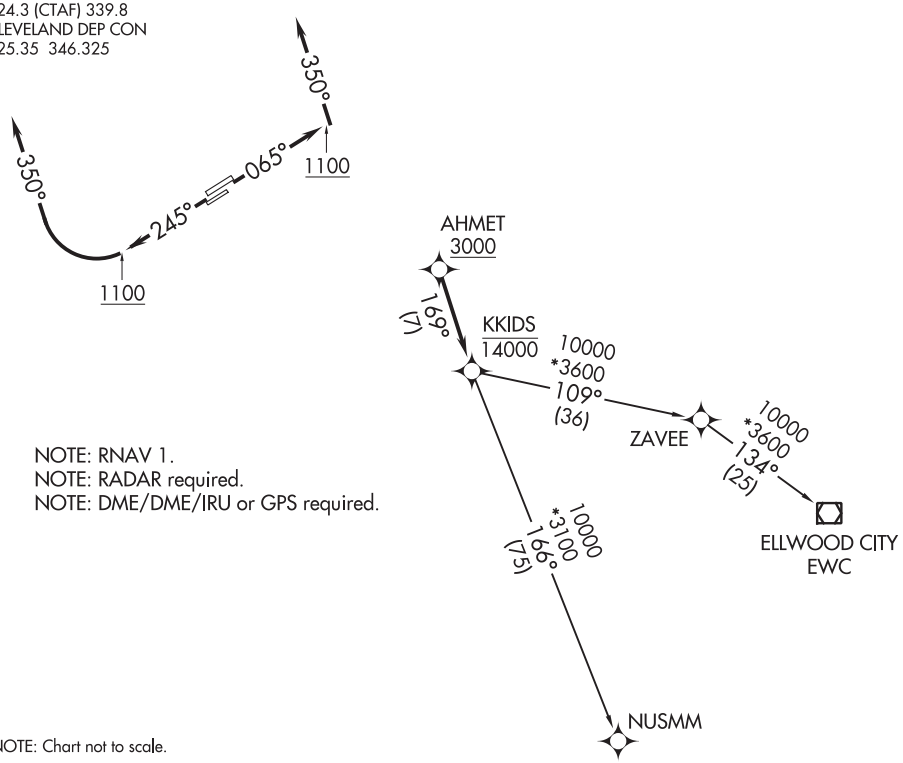
AHMET FOUR DEPARTURE (RNAV)

BURKE LAKEFRONT (BKL)
CLEVELAND, OHIO

ATIS
125.25
CLNC DEL
339.8
121.9 (when tower closed)
GND CON
121.9 339.8
LAKEFRONT TOWER ★
124.3 (CTAF) 339.8
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 6L/R, 24R: Standard with minimum climb of 500′ per NM to 1100.
Rwy 24L: 400-1⅜ or standard with minimum climb of 757′ per NM to 1000.



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

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb on heading 065° to 1100, then on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAYS 24L/R: Climb on heading 245° to 1100, then right turn to heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross AHMET at or above 3000, thence....

....on track 169° to cross KKIDS at or below 14000, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

ELLWOOD CITY TRANSITION (AHMET4.EWC)
NUSMM TRANSITION (AHMET4.NUSMM)

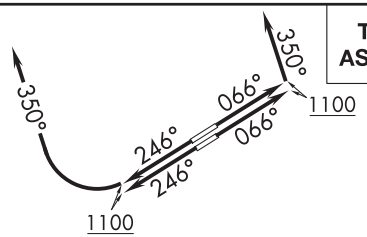
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

CAVVS FOUR DEPARTURE (RNAV)

BURKE LAKEFRONT (BKL)
CLEVELAND, OHIO

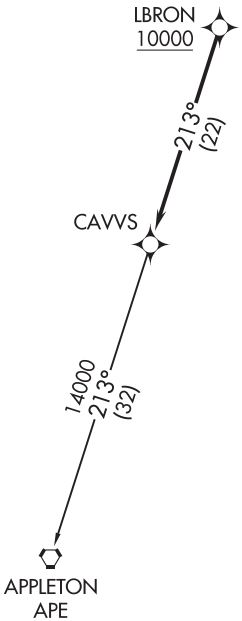
ATIS 125.25
CLNC DEL
339.8
121.9 (when tower closed)
GND CON 121.9 339.8
LAKEFRONT TOWER ★
124.3 (CTAF) 339.8
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC



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

TAKEOFF MINIMUMS:
Rwys 6L/R, 24R: Standard with a minimum climb of 500′ per NM to 1100.
Rwy 24L: 400-1⅜ or standard with minimum climb of 757′ per NM to 1000.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb on heading 066° to 1100, then on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAYS 24L/R: Climb on heading 246° to 1100, then right turn heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross LBRON at or above 10000, thence....

....on track 213° to CAVVS, then on (transition). Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

APPLETON TRANSITION (CAVVS4.APE)

NOTE: Chart not to scale.

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EC-2, 25 FEB 2021 to 22 APR 2021

(GTLKE4.GTLKE) 20086

AL-5370 (FAA)

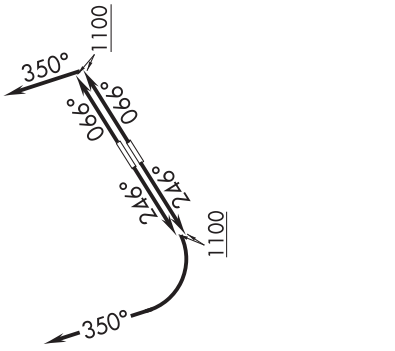
GTLKE FOUR DEPARTURE (RNAV)

BURKE LAKEFRONT (BKL)
CLEVELAND, OHIO

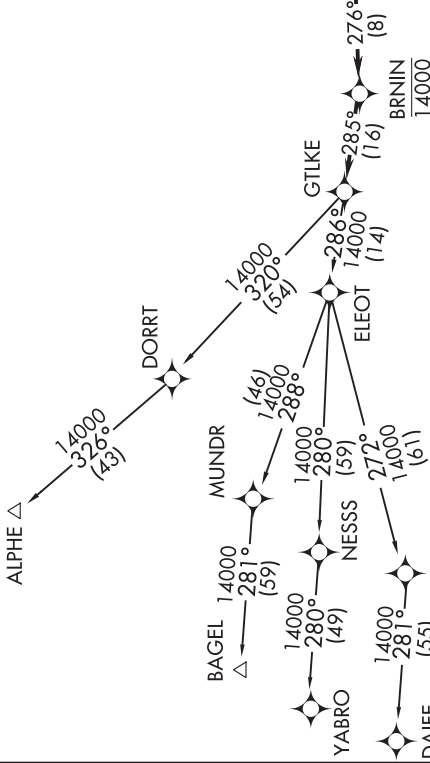
TOP ALTITUDE: ASSIGNED BY ATC

ATIS
125.25
CLNC DEL
339.8
121.9 (when tower closed)
GND CON
121.9 339.8
LAKEFRONT TOWER ★
124.3 (CTAF) 339.8
CLEVELAND DEP CON
125.35 346.325

TAKEOFF MINIMUMS:
Rwys 6L/R, 24R: Standard with a minimum climb of 500' per NM to 1100.
Rwy 24L: 400-1⅜ or standard with a minimum climb of 757' per NM to 1000.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: BAGEL TRANSITION: For aircraft landing MDW only, or as assigned by ATC.
NOTE: DAIFE TRANSITION: For aircraft landing ORD only, or as assigned by ATC.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

GTLKE FOUR DEPARTURE (RNAV)

(GTLKE4.GTLKE) 26MAR20

CLEVELAND, OHIO
BURKE LAKEFRONT (BKL)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb on heading 066° to 1100, then on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross AYYLE at or above 9000, thence....
TAKEOFF RUNWAYS 24L/R: Climb on heading 246° to 1100, then right turn heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross AYYLE at or above 9000, thence....

....on track 276° to cross BRNIN at or below 14000, then on track 285° to GTLKE then on (transition). Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

ALPHE TRANSITION (GTLKE4.ALPHE)
BAGEL TRANSITION (GTLKE4.BAGEL)
DAIFE TRANSITION (GTLKE4.DAIFE)
YABRO TRANSITION (GTLKE4.YABRO)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

(MYCAR4.MYCAR) 20086 AL-5370 (FAA)

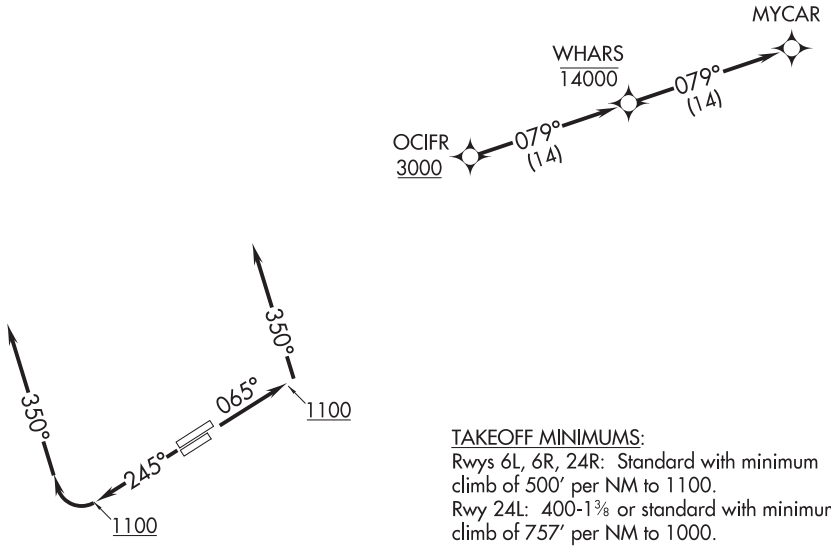
MYCAR FOUR DEPARTURE (RNAV)

BURKE LAKEFRONT (BKL)
CLEVELAND, OHIO

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
125.25
CLNC DEL
339.8
121.9 (when tower closed)
GND CON
121.9 339.8
LAKEFRONT TOWER ★
124.3 (CTAF) 339.8
CLEVELAND DEP CON
125.35 346.325

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



TAKEOFF MINIMUMS:
Rwys 6L, 6R, 24R: Standard with minimum climb of 500′ per NM to 1100.
Rwy 24L: 400-1⅜ or standard with minimum climb of 757′ per NM to 1000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 6L/R: Climb on heading 065° to 1100, then on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAYS 24L/R: Climb on heading 245° to 1100, then right turn on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross OCIFR at or above 3000, thence....

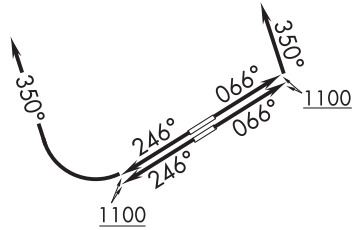
....on track 079° to cross WHARS at or below 14000, then on track 079° to MYCAR. Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

EC-2, 25 FEB 2021 to 22 APR 2021

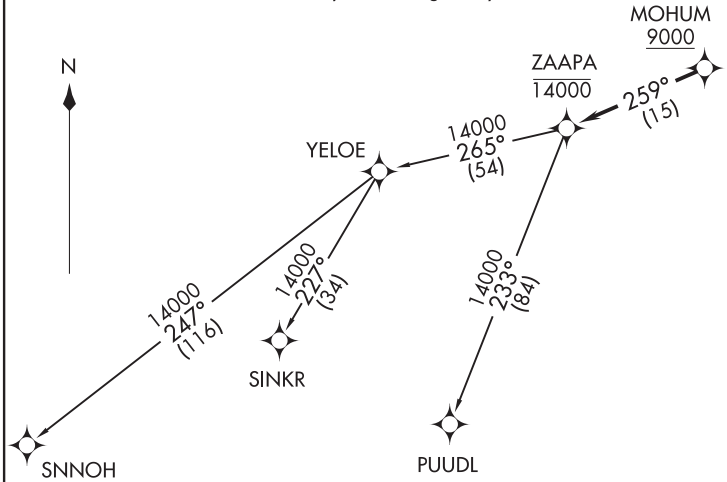
ATIS
125.25
CLNC DEL
339.8
121.9 (when tower closed)
GND CON
121.9 339.8
LAKEFRONT TOWER ★
124.3 (CTAF) 339.8
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 6L/R, 24R: Standard with a minimum climb of 500′ per NM to 1100.
Rwy 24L: 400-1⅜ or standard with minimum climb of 757′ per NM to 1000.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: PUUDL TRANSITION: For aircraft at or below FL220 only or as assigned by ATC.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6L/R: Climb on heading 066° to 1100, then on heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross MOHUM at or above 9000, thence....
TAKEOFF RUNWAY 24L/R: Climb on heading 246° to 1100, then right turn heading 350° or as assigned by ATC, maintain 2000 (do not climb above 2000) for RADAR vectors to cross MOHUM at or above 9000, thence....

....on track 259° to cross ZAAPA at or below 14000, then on (transition). Maintain ATC assigned altitude, expect filed altitude ten minutes after departure.

PUUDL TRANSITION (ZAAPA5.PUUDL)
SINKR TRANSTIION (ZAAPA5.SINKR)
SNNOH TRANSITION (ZAAPA5.SNNOH)

CLEVELAND, OHIO | AL-84 (FAA) | 20366

ILS or LOC RWY 6L
CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-LIZ	APP CRS	Rwy ldg	6L	6R
111.55	058°	TDZE	9000	8029
Chan 52 (Y)		Apt Elev	773	777
			799	799

From GROHL, HICKR, and KWENE: RNAV 1-DME/DME/IRU or GPS required for procedure entry. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1.

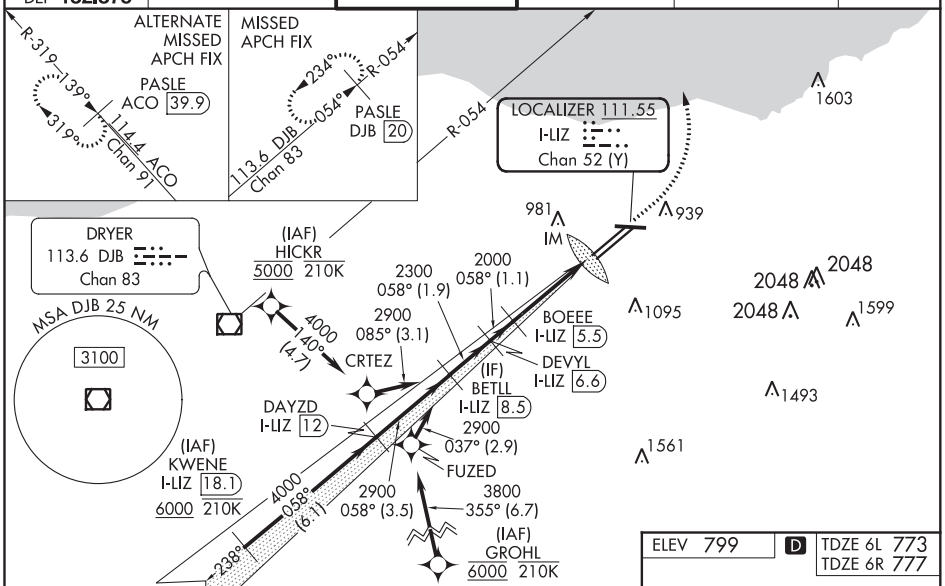
DME required.

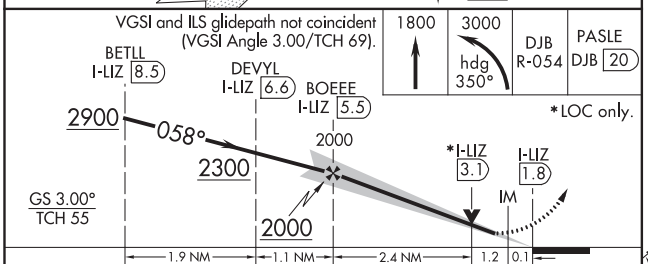
T Circling Rwy 10 NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Inop table does not apply to Sidestep 6R. For inop ALS, increase S-LOC 6L Cats C/D visibility to 1⅜ SM.

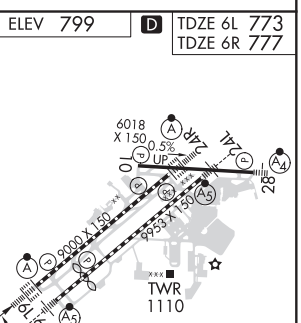
Rwy 6L ALSF-2 (A) | Rwy 6R MALSR (A5)

MISSED APPROACH: Climb to 1800 then climbing left turn to 3000 on heading 350° and DJB VOR/DME R-054 to PASLE/DJB 20 DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	







CATEGORY	A	B	C	D
S-ILS 6L	973/18 200 (200-½)			
S-LOC 6L	1260/24 487 (500-½)		1260/50 487 (500-1)	
SIDESTEP 6R	1260/55 483 (500-1)		1260-1½ 483 (500-1½)	1260-2 483 (500-2)
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

EC-2, 25 FEB 2021 to 22 APR 2021

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ILS or LOC RWY 6R
CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-CLE	APP CRS	Rwy ldg	6R	6L
111.9	058°	TDZE	8029	9000
Chan 56		Apt Elev	777	773
			799	799

From GROHL, HICKR, and RUHSH: RNAV 1-DME/DME/IRU or GPS required for procedure entry. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1.

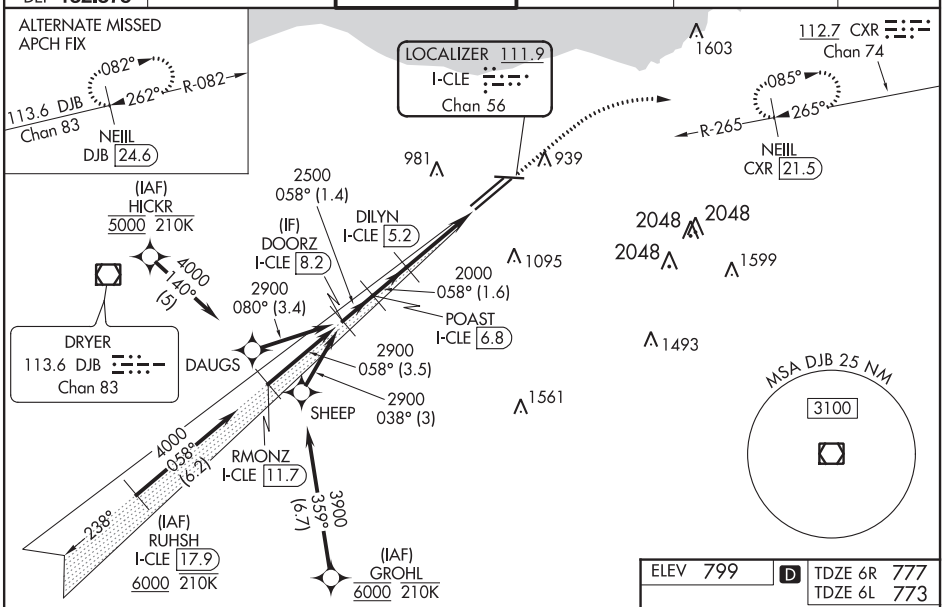
DME required.

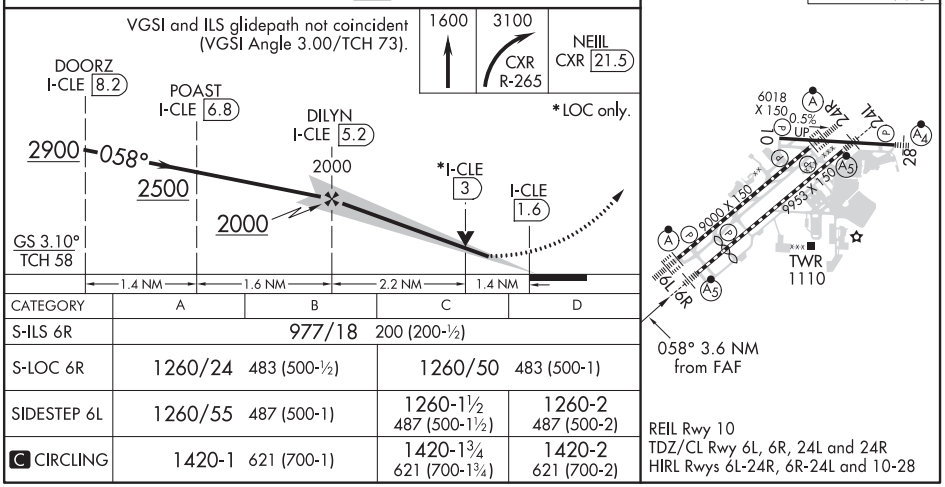
T Circling Rwy 10 NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Inop table does not apply to Sidestep 6L. For inop ALS, increase S-LOC 6R Cats C/D visibility to 1⅜ SM.

Rwy 6L ALSF-2 (A) Rwy 6R MALSR (A5)

MISSED APPROACH: Climb to 1600 then climbing right turn to 3100 on CXR VOR/DME R-265 to NEIIL/CXR 21.5 DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	





CATEGORY	A	B	C	D
S-ILS 6R	977/18 200 (200-½)			
S-LOC 6R	1260/24 483 (500-½)		1260/50 483 (500-1)	
SIDESTEP 6L	1260/55 487 (500-1)		1260-1½ 487 (500-1½)	1260-2 487 (500-2)
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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CLEVELAND, OHIO

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ILS or LOC RWY 24L
CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-HPI	APP CRS		24L	24R
109.9	238°	Rwy ldg	9956	9000
Chan 36		TDZE	786	780
		Apt Elev	799	799

DME required. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1. From LLROY and BUDRW: RNAV 1-DME/DME/IRU or GPS required for procedure entry.

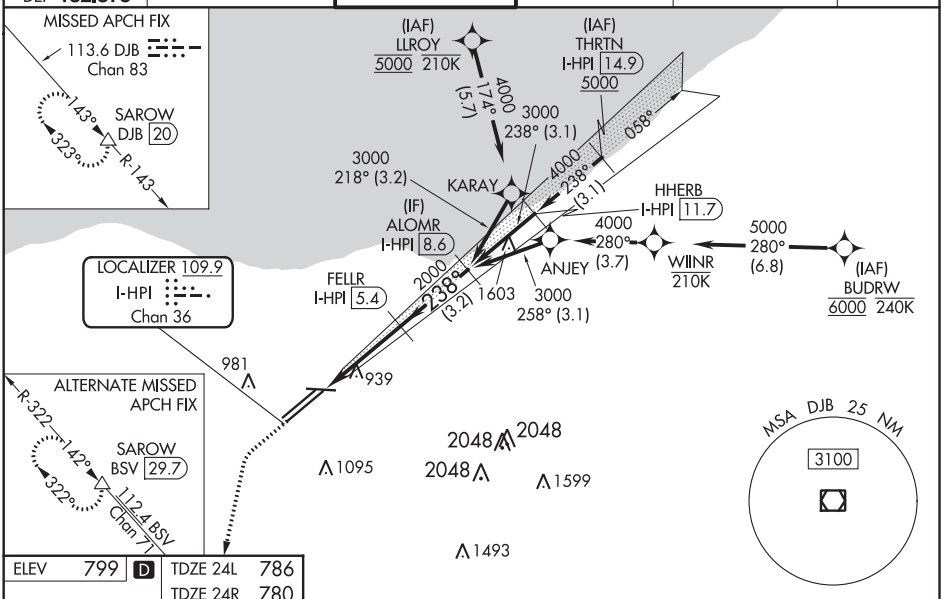
T Circling Rwy 10 NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Inop table does not apply to Sidestep 24R. For inop ALS, increase S-LOC 24L Cats C/D visibility to 1⅜ SM.

Rwy 24L MALSR (A5)

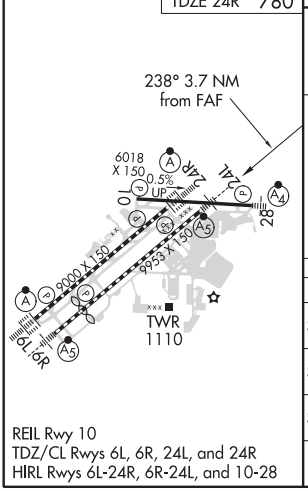
Rwy 24R ALSF-2 (A)

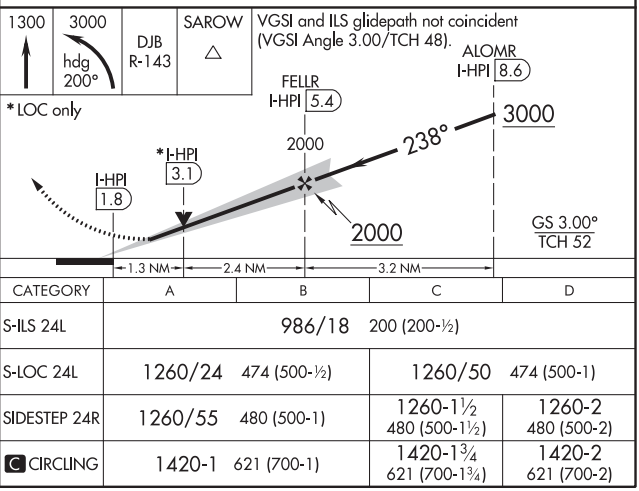
MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 on heading 200° and DJB VOR/DME R-143 to SAROW/DJB 20 DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV	799	D	TDZE 24L	786
			TDZE 24R	780





CATEGORY	A	B	C	D
S-ILS 24L	986/18 200 (200-½)			
S-LOC 24L	1260/24 474 (500-½)		1260/50 474 (500-1)	
SIDESTEP 24R	1260/55 480 (500-1)		1260-1½ 480 (500-1½)	1260-2 480 (500-2)
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwys 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L, and 10-28

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ILS or LOC RWY 24R
CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-PVY	APP CRS		24R	24L
111.55	238°	Rwy ldg	9000	9956
Chan 52 (Y)		TDZE	780	786
		Apt Elev	799	799

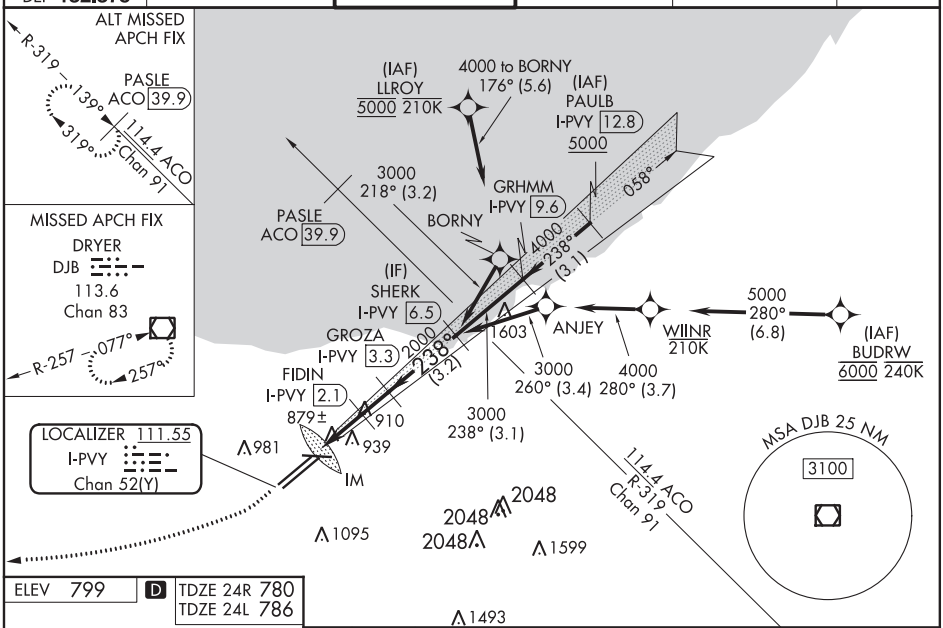
DME required. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1. From LLROY and BUDRW: RNAV 1-DME/DME/IRU or GPS required for procedure entry.

Rwy 24L MALSR (A5) | Rwy 24R ALSF-2 (A)

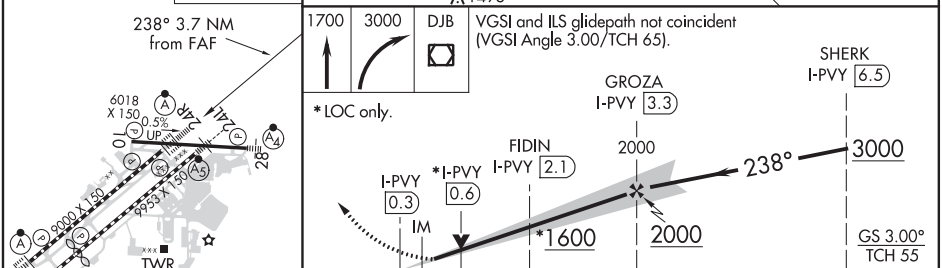
MISSED APPROACH: Climb to 1700 then climbing right turn to 3000 direct DJB VOR/DME and hold.

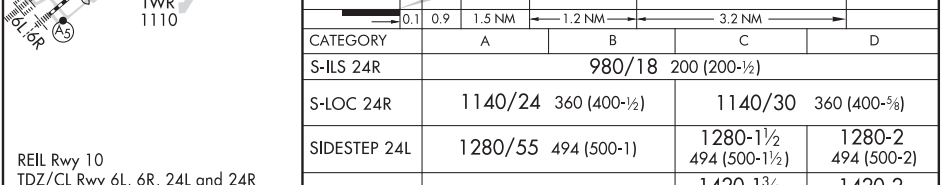
T Circling Rwy 10 NA at night. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Inop table does not apply to sidestep 24L. For inop ALS, increase S-LOC 24R Cats C/D visibility to RVR 5500.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799 | D | TDZE 24R 780 | TDZE 24L 786





CATEGORY	A	B	C	D
S-ILS 24R	980/18 200 (200-½)			
S-LOC 24R	1140/24 360 (400-½)		1140/30 360 (400-⅝)	
SIDESTEP 24L	1280/55 494 (500-1)		1280-1½ 494 (500-1½)	1280-2 494 (500-2)
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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LOC/DME I-PXP	APP CRS	Rwy ldg	6018
110.7	281°	TDZE	799
Chan 44		Apt Elev	799

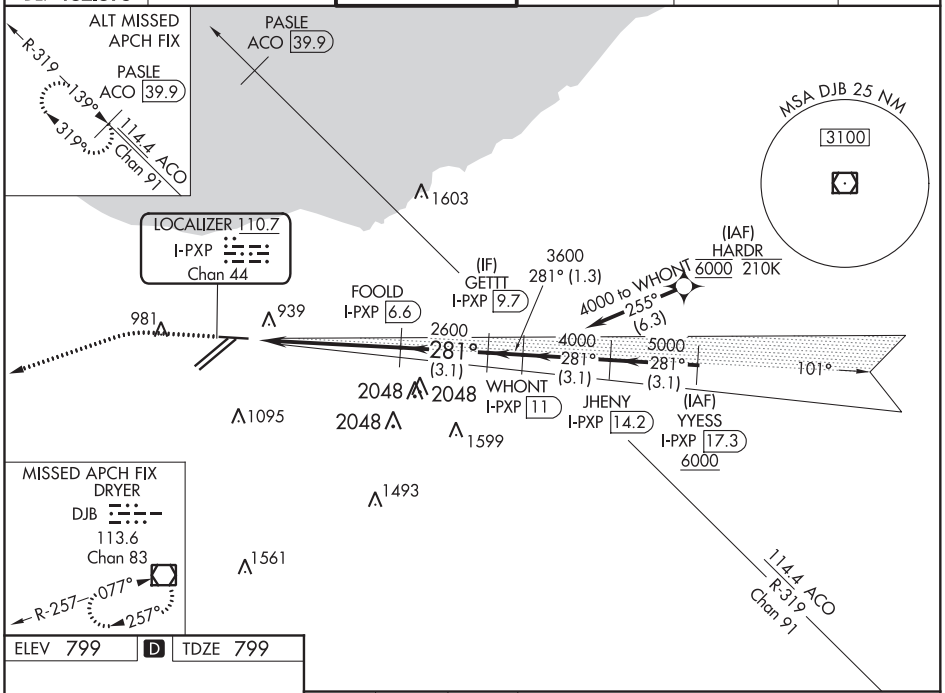
ILS or LOC RWY 28
CLEVELAND-HOPKINS INTL (CLE)

RNAV 1. From HARDR: RNAV 1-DME/DME/IRU or GPS required for procedure entry. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry.
DME required.
T Circling Rwy 10 NA at night. Inop table does not apply to S-ILS 28.

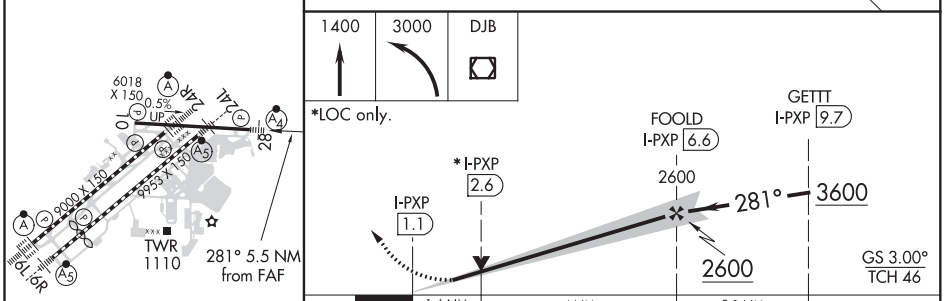
MALSF

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct DJB VOR/DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799	D	TDZE 799



CATEGORY	A	B	C	D
S-ILS 28	999/40 200 (200-¾)			
S-LOC 28	1340/40 541 (600-¾)		1340-1⅜ 541 (600-1⅜)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-PVY	APP CRS	Rwy ldg	9000
111.55	238°	TDZE	780
Chan 52(Y)		Apt Elev	799

ILS RWY 24R (SA CAT I)
CLEVELAND-HOPKINS INTL (CLE)

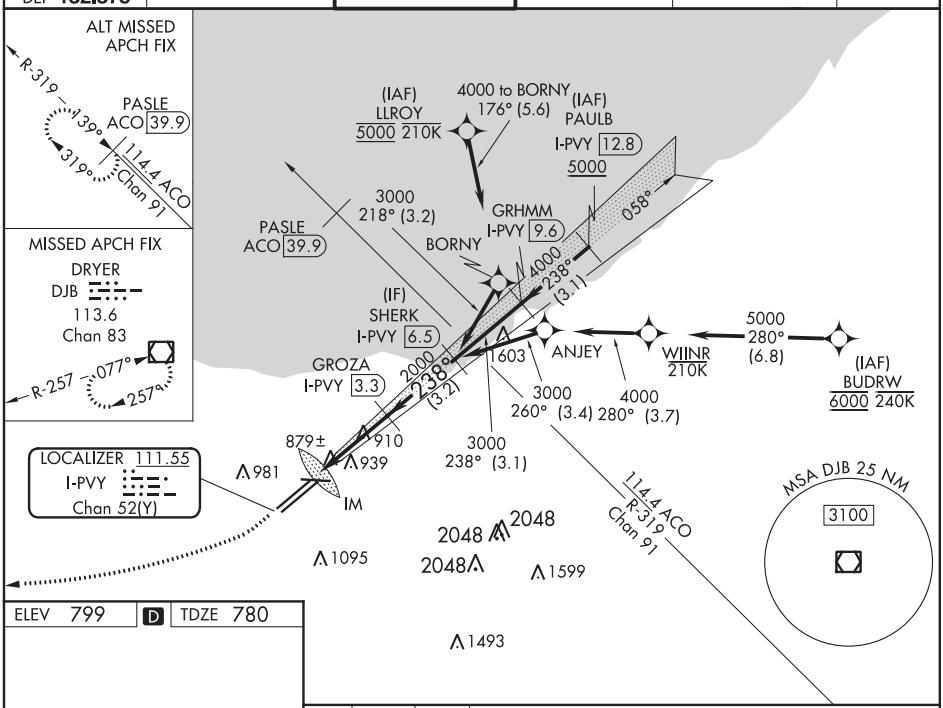
DME required. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1. From LLROY and BUDRW: RNAV 1-DME/DME/IRU or GPS required for procedure entry.

Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.

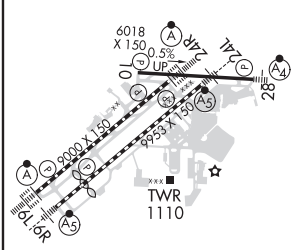
ALSF-2

MISSED APPROACH: Climb to 1700 then climbing right turn to 3000 direct DJB VOR/DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



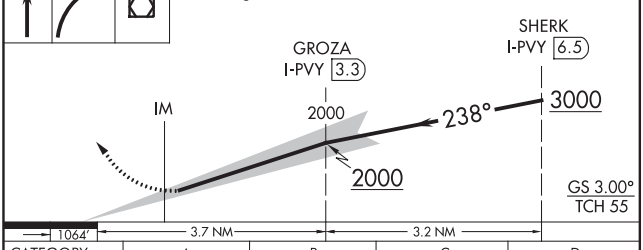
ELEV 799 | D | TDZE 780



REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

1700 | 3000 | DJB

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 65).



CATEGORY	A	B	C	D
S-ILS 24R	RA 150/14 150 DA 930			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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EC-2, 25 FEB 2021 to 22 APR 2021

CLEVELAND, OHIO

AL-84 (FAA)

20366

LOC/DME I-LIZ	APP CRS	Rwy ldg 9000
111.55	058°	TDZE 773
Chan 52 (Y)		Apt Elev 799

ILS RWY 6L (CAT II & III)

CLEVELAND-HOPKINS INTL (CLE)

From GROHL, HICKR, and KWENE: RNAV 1-DME/DME/IRU or GPS required for procedure entry. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1.

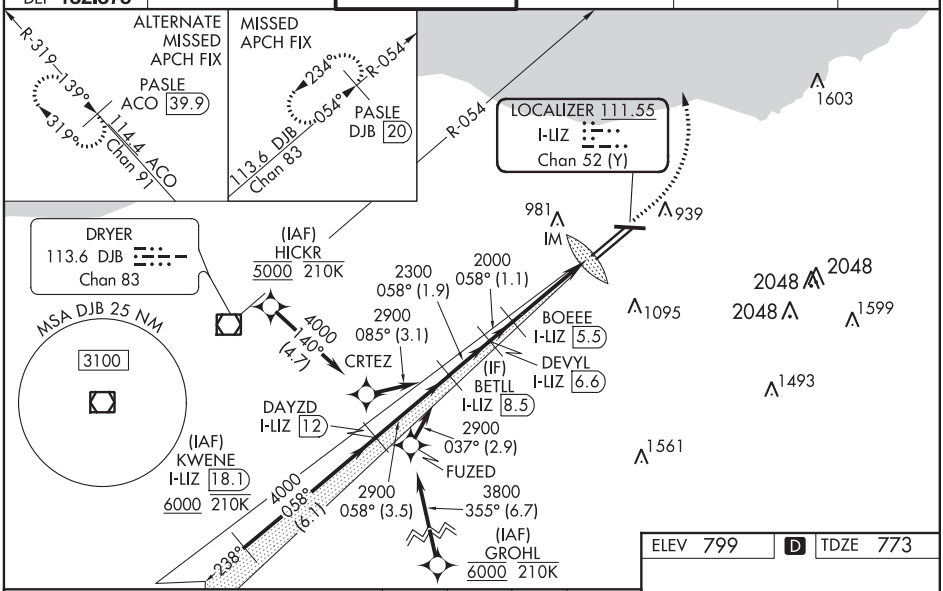
DME required.

Simultaneous approach authorized.
Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.

ALSF-2

MISSED APPROACH: Climb to 1800 then climbing left turn to 3000 on heading 350° and DJB VOR/DME R-054 to PASLE/DJB 20 DME and hold.

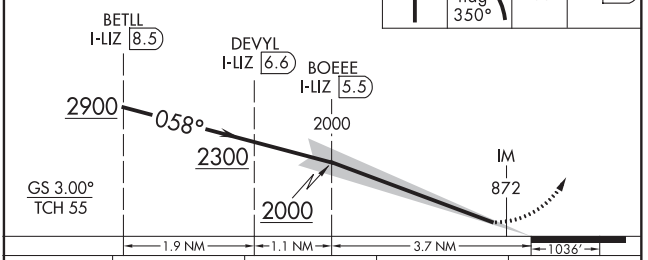
D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	

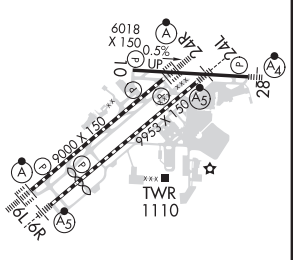


ELEV 799 | D | TDZE 773

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 69).

1800	3000 hdg 350°	DJB R-054	PASLE DJB 20





CATEGORY	A	B	C	D
S-ILS 6L	CAT II RA 111/12 100 DA 873			
S-ILS 6L	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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ILS RWY 24R (CAT II & III)

CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-PVY	APP CRS	Rwy ldg	9000
111.55	238°	TDZE	780
Chan 52 (Y)		Apt Elev	799

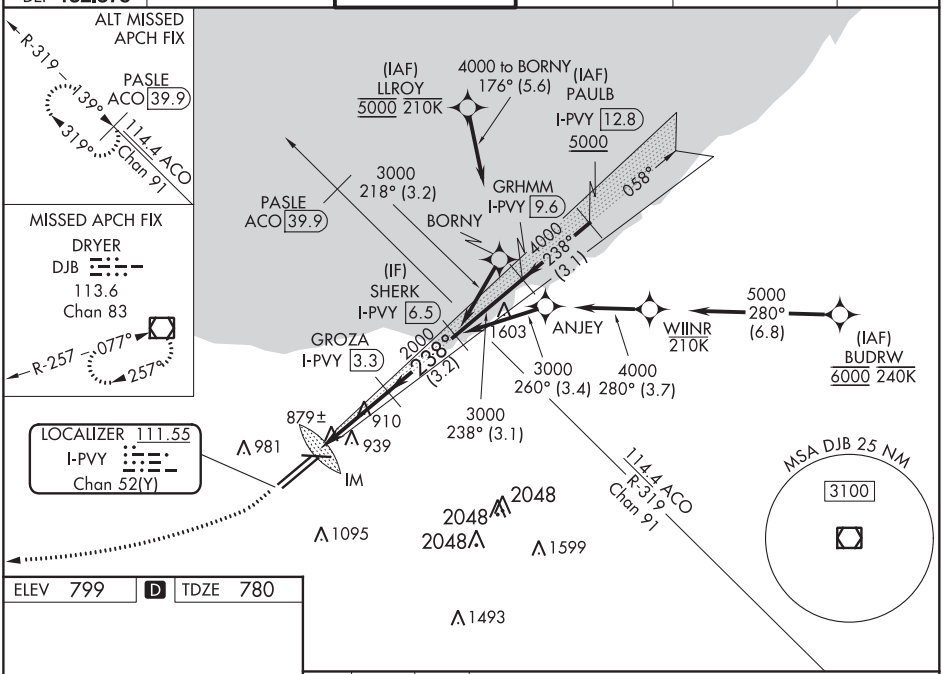
DME required. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1. From LLROY and BUDRW: RNAV 1-DME/DME/IRU or GPS required for procedure entry.

T CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown. Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope.

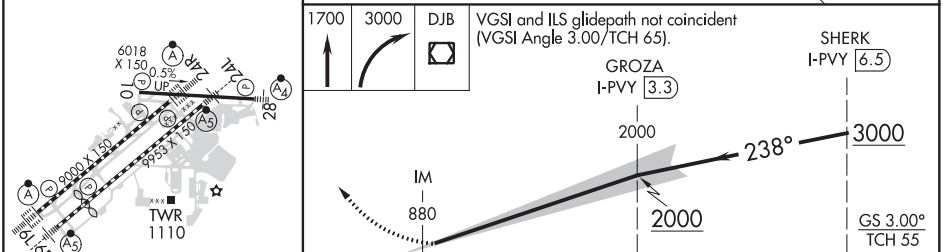
ALSF-2

MISSED APPROACH: Climb to 1700 then climbing right turn to 3000 direct DJB VOR/DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799	D	TDZE 780



CATEGORY	A	B	C	D
S-ILS 24R	CAT II RA 100/12 100 DA 880			
S-ILS 24R	CAT III RVR 06			

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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ILS RWY 6R (SA CAT II)

CLEVELAND-HOPKINS INTL (CLE)

LOC/DME I-CLE	APP CRS	Rwy ldg	8029
111.9	058°	TDZE	777
Chan 56		Apt Elev	799

From GROHL, HICKR, and RUHSH: RNAV 1-DME/DME/IRU or GPS required for procedure entry. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1.

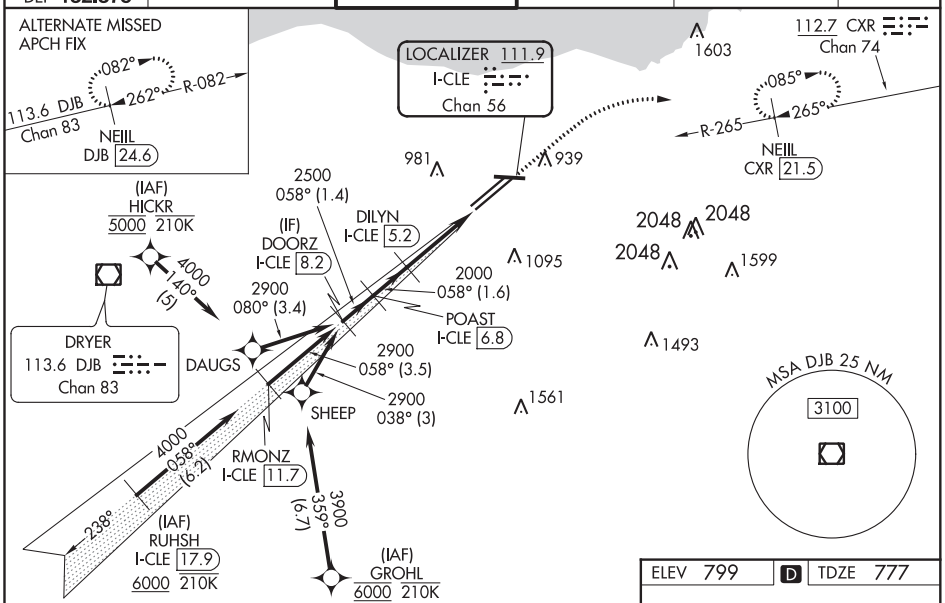
DME required.

T Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Reduced lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

MALSR

MISSED APPROACH: Climb to 1600 then climbing right turn to 3100 on CXR VOR/DME R-265 to NEIIL/CXR 21.5 DME and hold.

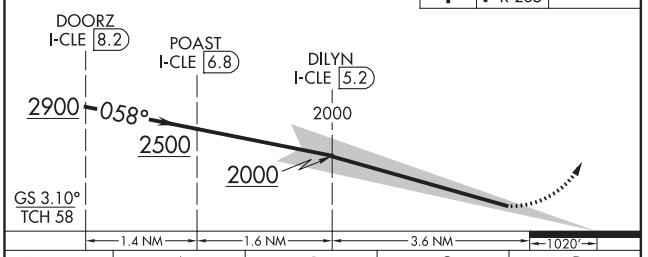
D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	

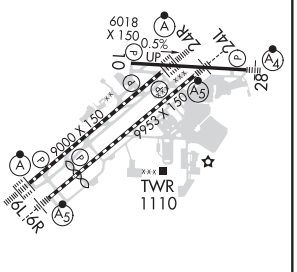


ELEV 799 | D | TDZE 777

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).

1600	3100	NEIIL
	CXR R-265	CXR 21.5





CATEGORY	A	B	C	D
S-ILS 6R	RA 100/12 100 DA 877			

SA CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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LOC/DME I-HPI	APP CRS	Rwy ldg	9956
109.9	238°	TDZE	786
Chan 36		Apt Elev	799

ILS RWY 24L (SA CAT II)
CLEVELAND-HOPKINS INTL (CLE)

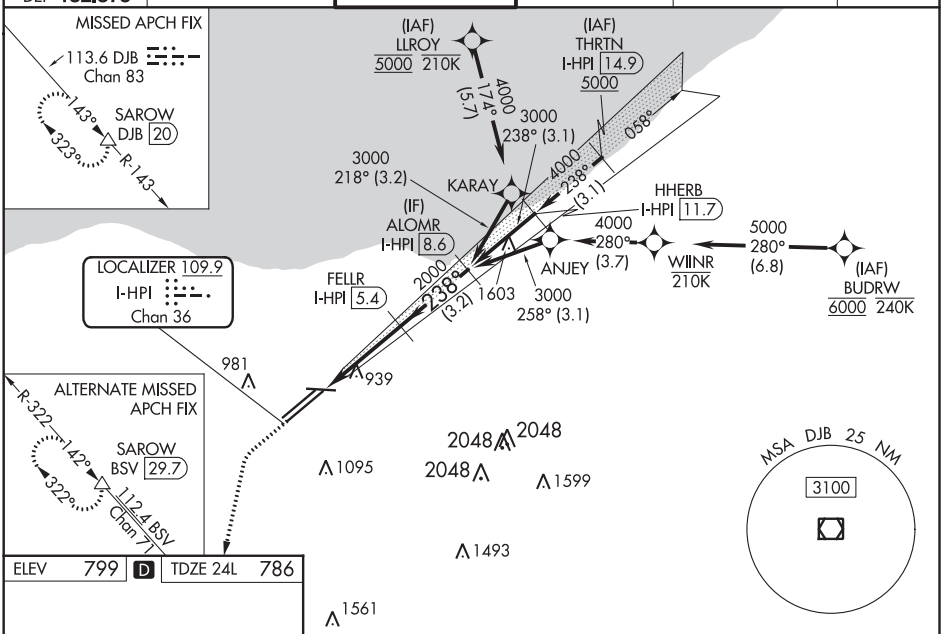
DME required. Aircraft not DME/DME/IRU or GPS equipped - RADAR required for procedure entry. RNAV 1. From LLROY and BUDRW: RNAV 1-DME/DME/IRU or GPS required for procedure entry.

T Simultaneous approach authorized. Simultaneous operations require use of vertical guidance; maintain last assigned altitude until established on glideslope. Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

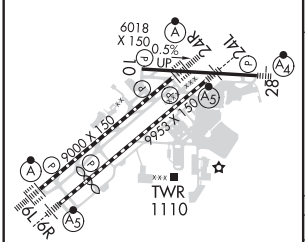
MALSR

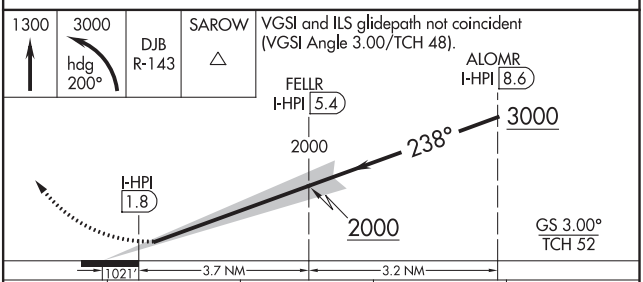
MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 on heading 200° and DJB VOR/DME R-143 to SAROW/DJB 20 DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 364.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV	799	D	TDZE 24L	786





CATEGORY	A	B	C	D
S-ILS 24L	RA 100/12 100 DA 886			

SA CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

REIL Rwy 10
TDZ/CL Rwys 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L, and 10-28

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RNAV (RNP) Z RWY 6L
CLEVELAND-HOPKINS INTL (CLE)

APP CRS	Rwy ldg	9000
058°	TDZE	773
	Apt Elev	799

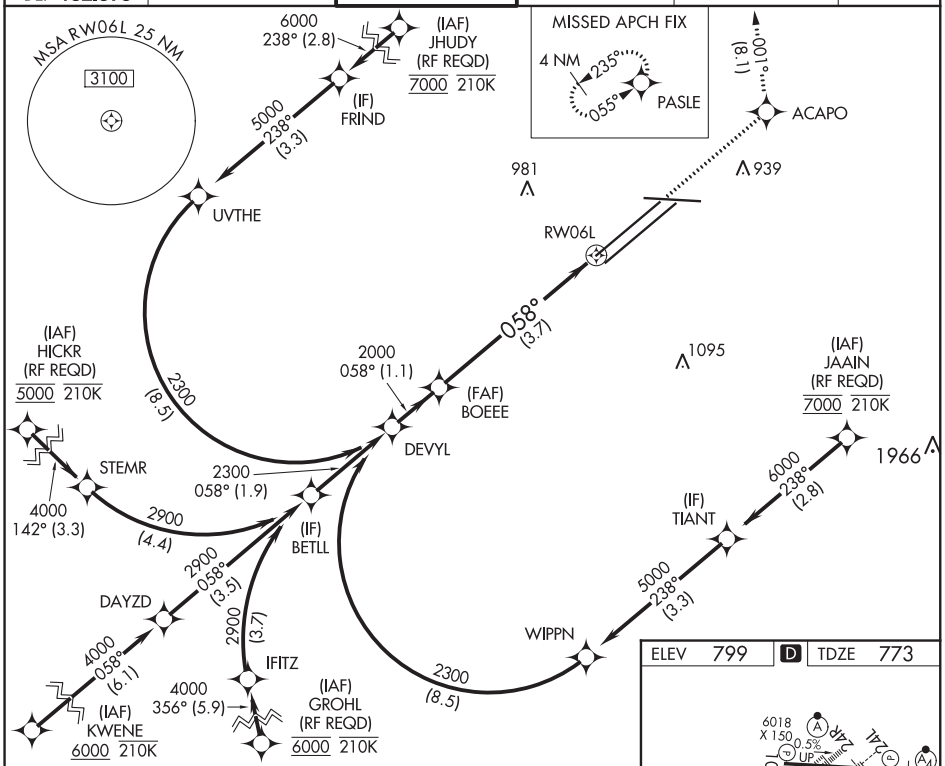
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). For inop ALS, increase RNP 0.17 all Cats visibility to RVR 5500 and RNP 0.30 all Cats visibility to RVR 6000.

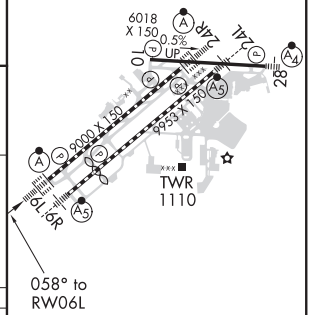
ALSF-2

MISSED APPROACH: Climb to 3000 direct ACAPO and on track 001° to PASLE and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



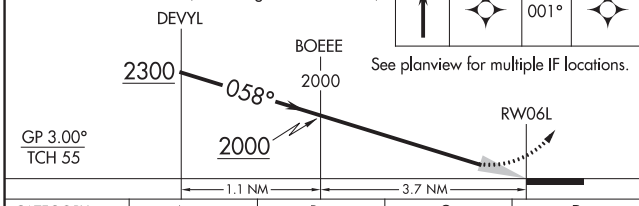
ELEV 799 | D | TDZE 773



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 69).

3000	ACAPO	tr 001°	PASLE

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.17 DA	1123/30	350 (400-⅝)		
RNP 0.30 DA	1176/40	403 (400-¾)		

AUTHORIZATION REQUIRED

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (RNP) Z RWY 6R
CLEVELAND-HOPKINS INTL (CLE)

APP CRS	Rwy ldg	8029
058°	TDZE	777
	Apt Elev	799

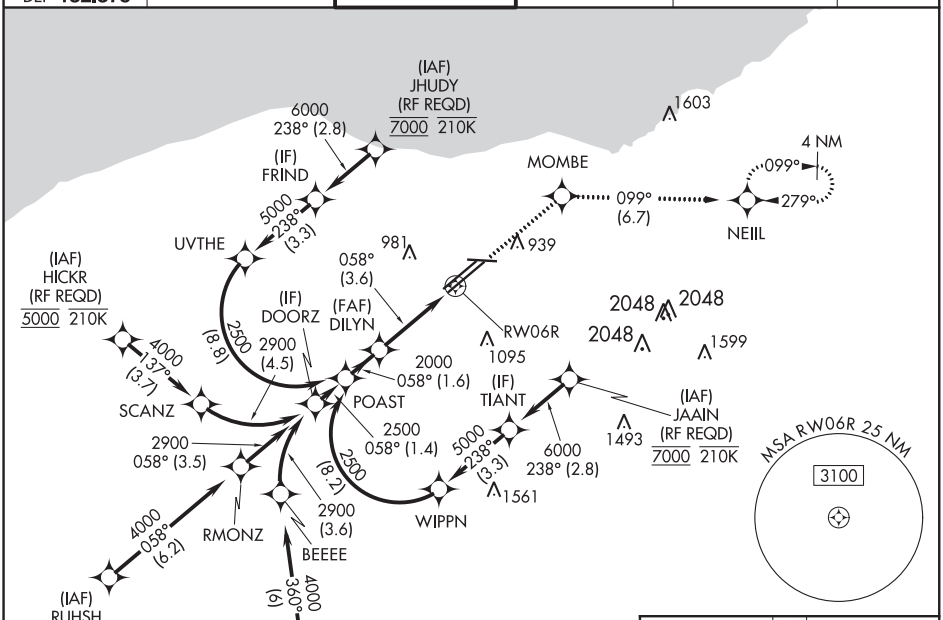
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 46°C (114°F).
For inop ALS, increase RNP 0.15 all Cats visibility to RVR 5500.

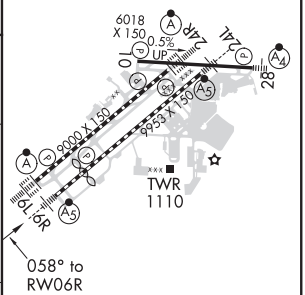
MALSR

MISSED APPROACH: Climb to 3000 direct MOMBE and on track 099° to NEIIL and hold.
*Missed approach requires minimum climb of 270 feet per NM to 1400.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



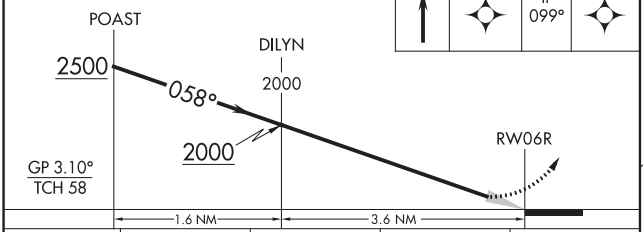
ELEV 799 | D | TDZE 777



REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

See planview for multiple IF locations.

3000	MOMBE	tr 099°	NEIIL



CATEGORY	A	B	C	D
RNP 0.15 DA*	1127/30		350 (400-⅝)	
RNP 0.30 DA	1229/45		452 (500-⅞)	

AUTHORIZATION REQUIRED

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APP CRS	Rwy ldg	9956
238°	TDZE	786
	Apt Elev	799

RNAV (RNP) Z RWY 24L
CLEVELAND-HOPKINS INTL (CLE)

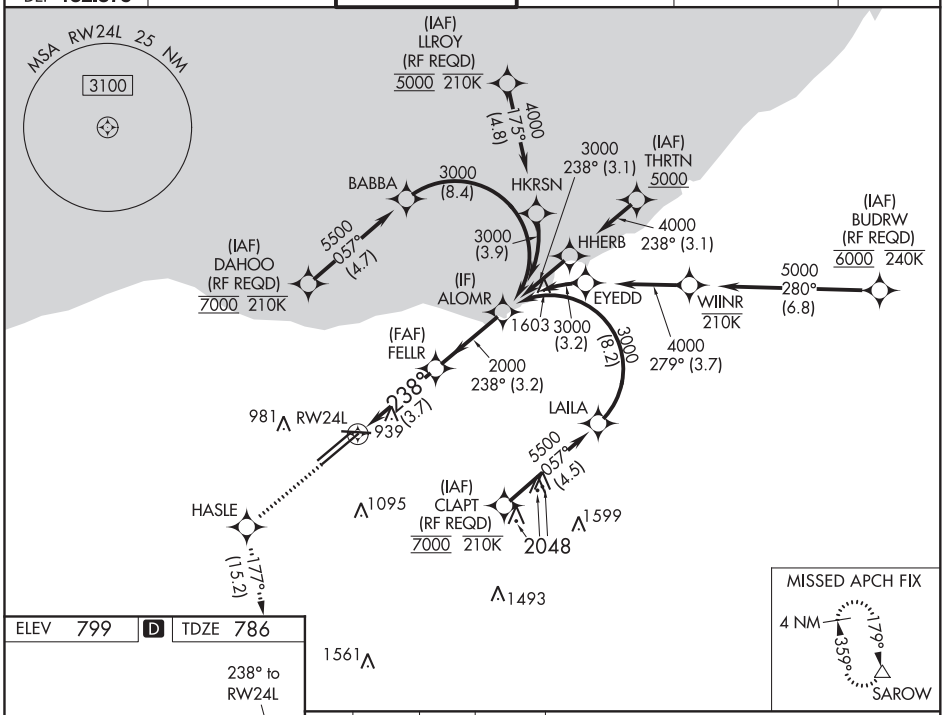
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). For inop ALS, increase RNP 0.19 all Cats visibility to RVR 5500.

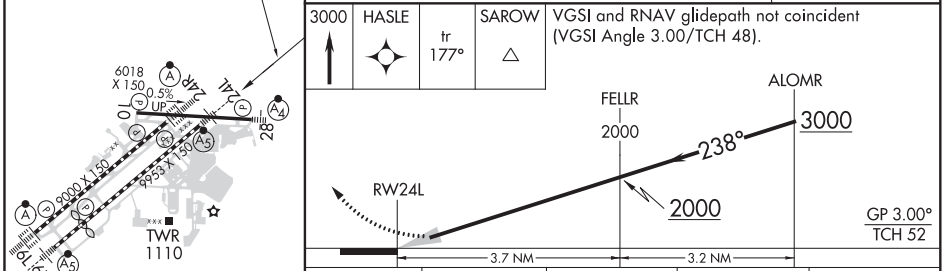
MALSR

MISSED APPROACH: Climb to 3000 direct HASLE and on track 177° to SAROW and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799 | D | TDZE 786



CATEGORY	A	B	C	D
RNP 0.19 DA	1140/30 354 (400-⅝)			
RNP 0.30 DA	1243/45 457 (500-⅞)			

AUTHORIZATION REQUIRED

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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APP CRS	Rwy ldg	9000
238°	TDZE	780
	Apt Elev	799

RNAV (RNP) Z RWY 24R

CLEVELAND-HOPKINS INTL (CLE)

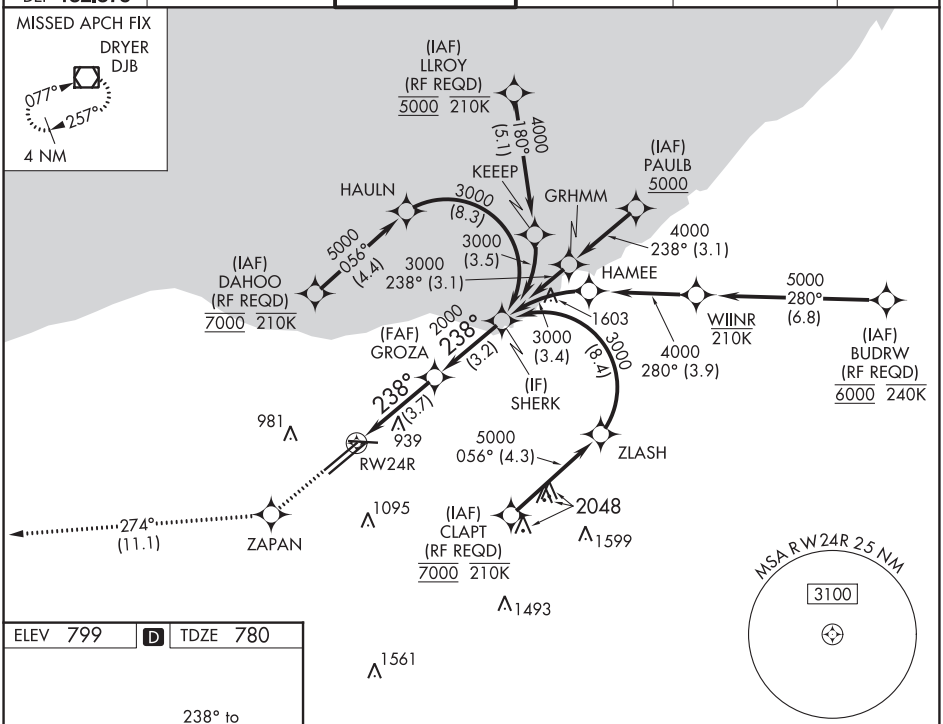
RNP AR APCH.

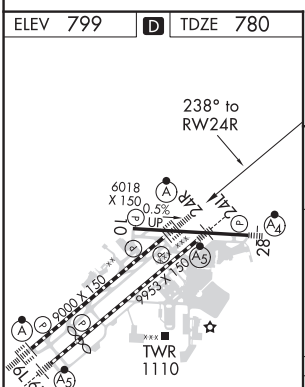
For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). For inop ALS, increase RNP 0.13 all Cats visibility to RVR 4500.

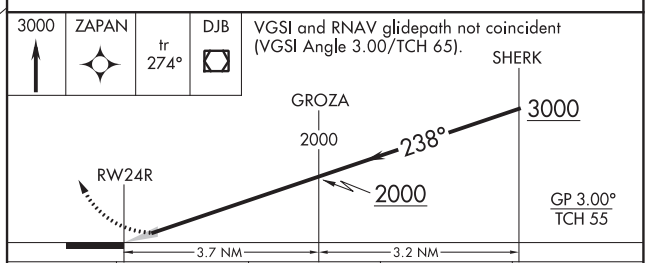
ALSF-2

MISSED APPROACH: Climb to 3000 direct ZAPAN and on track 274° to DJB VOR/DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	







CATEGORY	A	B	C	D
RNP 0.13 DA	1064/24 284 (300-½)			
RNP 0.30 DA	1176/35 396 (400-⅝)			

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6R-24L, and 6L-24R, 10-28

AUTHORIZATION REQUIRED

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RNAV (GPS) RWY 10
CLEVELAND-HOPKINS INTL (CLE)

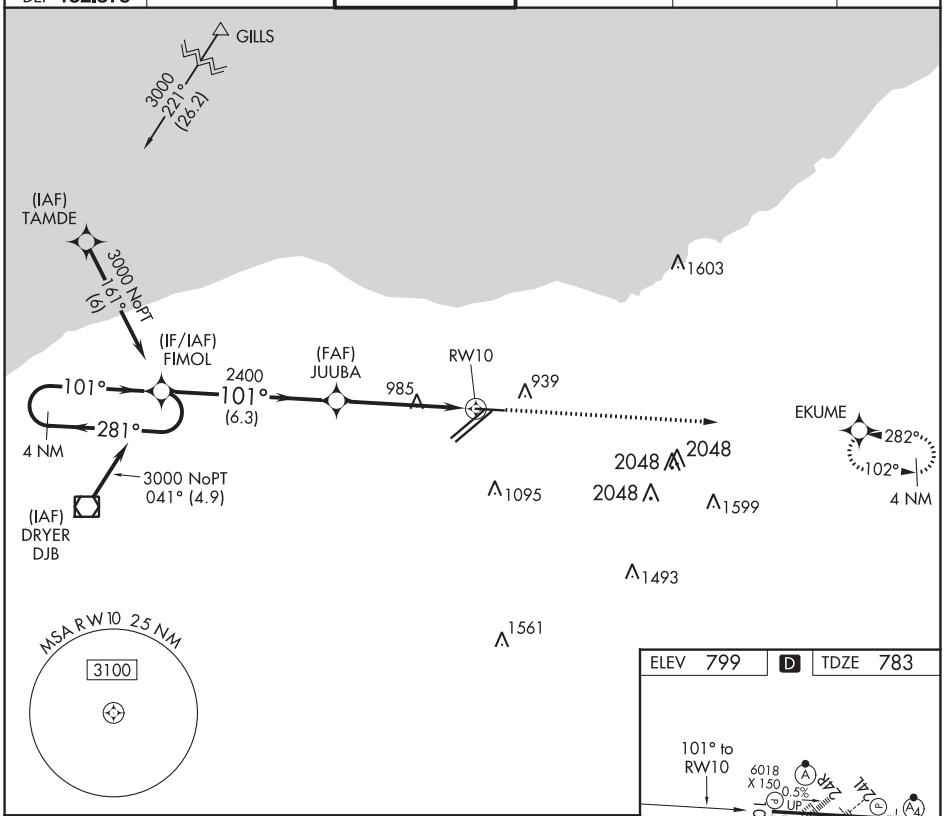
WAAS CH 73026 W10A	APP CRS 101°	Rwy ldg 6018 TDZE 783 Apt Elev 799

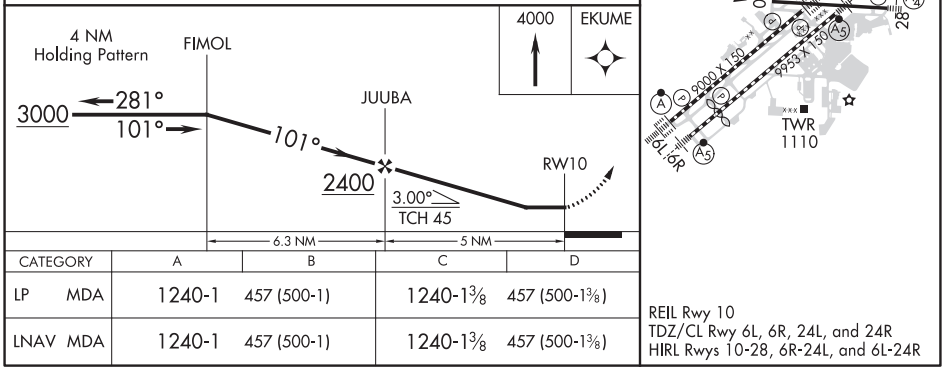
RNP APCH.

Rwy 10 helicopter visibility reduction below 1 SM NA. Procedure NA at night.

MISSED APPROACH: Climb to 4000 direct EKUME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	





CATEGORY	A	B	C	D
LP MDA	1240-1 457 (500-1)		1240-1⅜ 457 (500-1⅜)	
LNAV MDA	1240-1 457 (500-1)		1240-1⅜ 457 (500-1⅜)	

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 10-28, 6R-24L, and 6L-24R

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RNAV (GPS) RWY 28
CLEVELAND-HOPKINS INTL (CLE)

WAAS CH 40109 W28A	APP CRS 281°	Rwy ldg 6018 TDZE 799 Apt Elev 799

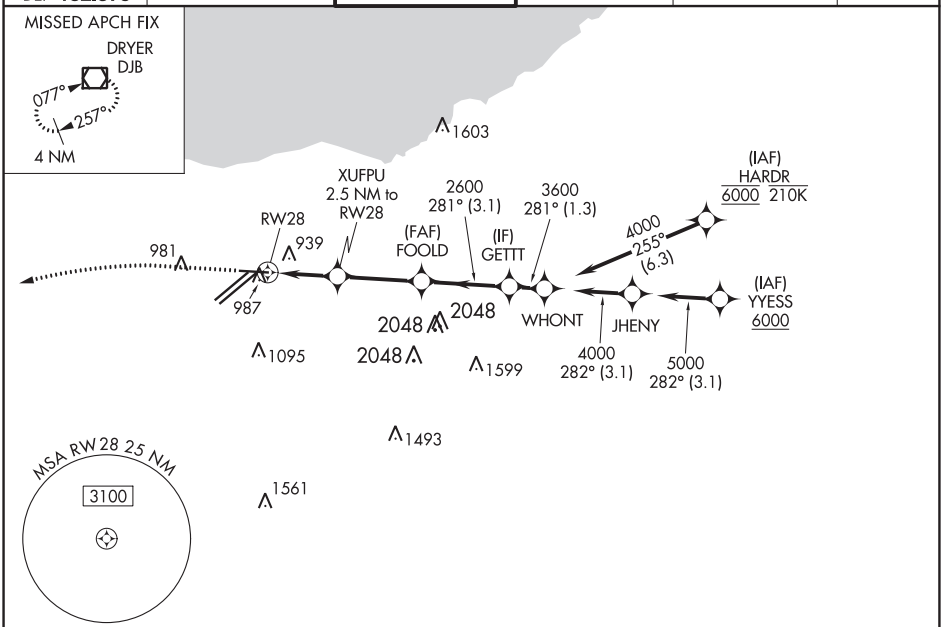
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). Circling Rwy 10 NA at night. Inop table does not apply to LPV.

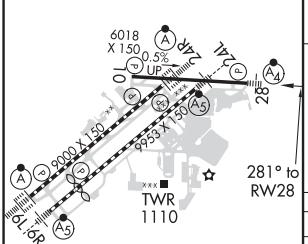
MALSF

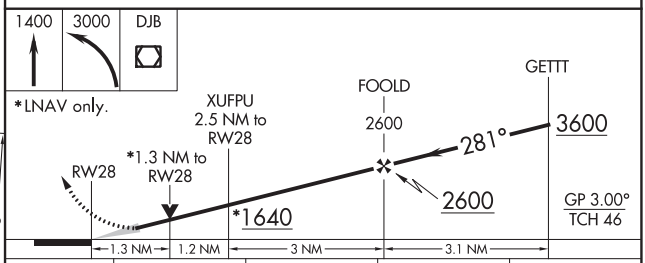
MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct DJB VOR/DME and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799	D	TDZE 799





CATEGORY	A	B	C	D
LPV DA	999/40 200 (200-¾)			
LNAV/VNAV DA	1168/40 369 (400-¾)			
LNAV MDA	1260/40 461 (500-¾)		1260/60 461 (500-1¼)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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RNAV (GPS) Y RWY 6L
CLEVELAND-HOPKINS INTL (CLE)

WAAS CH 56204 W06A	APP CRS 058°	Rwy ldg 9000 TDZE 773 Apt Elev 799

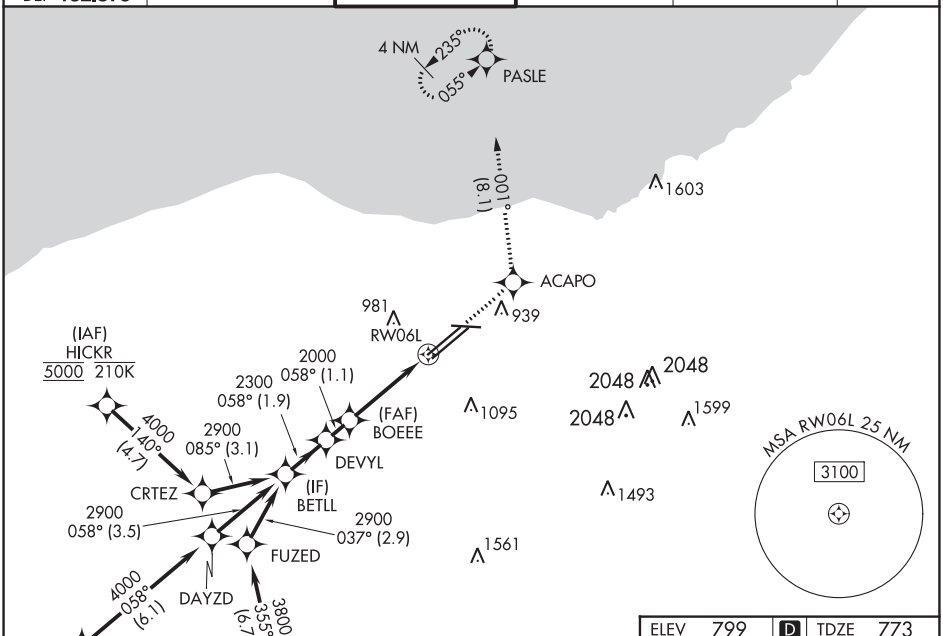
RNP APCH.

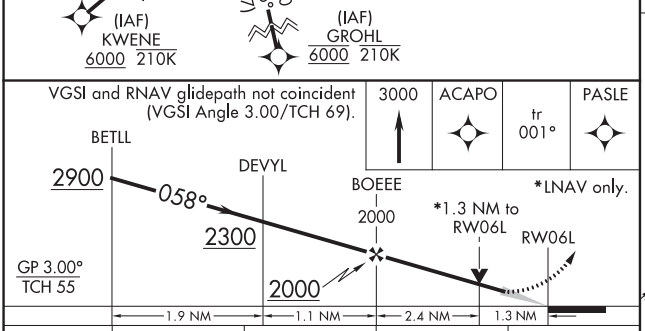
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). Circling Rwy 10 NA at night. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 5500 and increase LNAV Cats C/D visibility to 1⅜ SM.

ALSF-2

MISSED APPROACH: Climb to 3000 direct ACAPO and on track 001° to PASLE and hold.

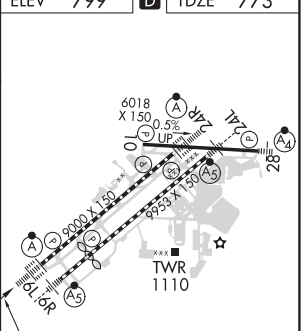
D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	





CATEGORY	A	B	C	D
LPV DA	973/18 200 (200-½)			
LNAV/VNAV DA	1120/30 347 (400-⅝)			
LNAV MDA	1260/24 487 (500-½)		1260/50 487 (500-1)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

ELEV 799 D TDZE 773



REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

EC-2, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS) Y RWY 6R
CLEVELAND-HOPKINS INTL (CLE)

WAAS CH 81806 W06B	APP CRS 058°	Rwy ldg 8029 TDZE 777 Apt Elev 799

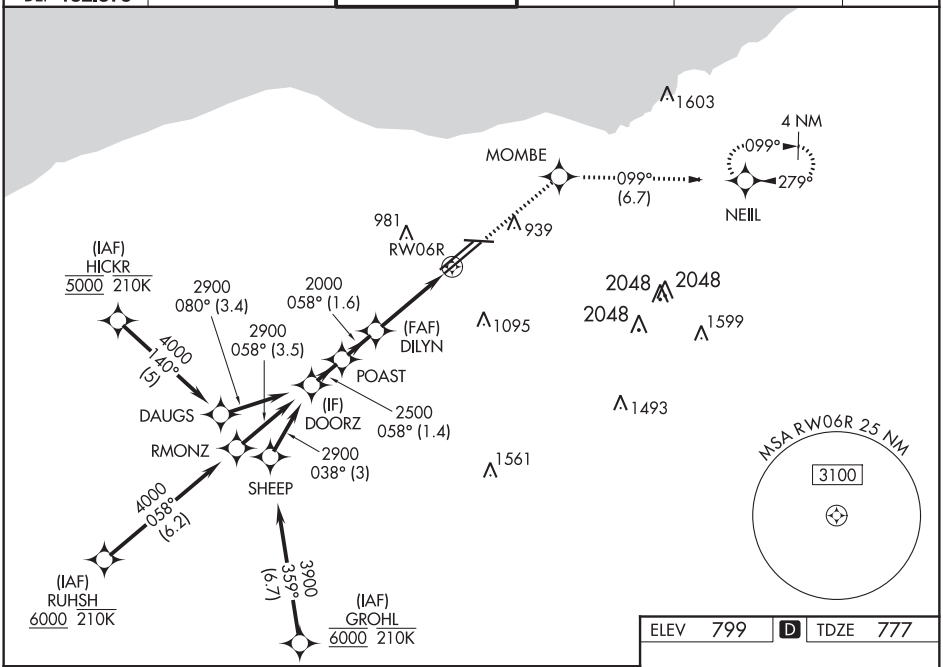
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F). Circling Rwy 10 NA at night. For inop ALS, increase LNAV Cats C/D visibility to 1⅜ SM.

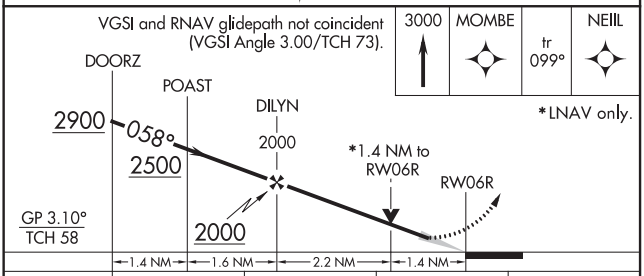
MALSR

MISSED APPROACH: Climb to 3000 direct MOMBE and on track 099° to NEIIL and hold.

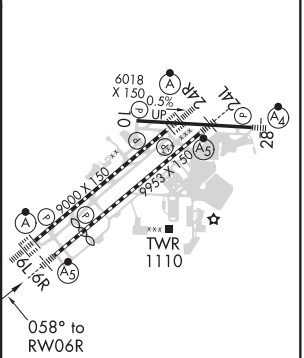
D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



ELEV 799	D	TDZE 777



CATEGORY	A	B	C	D
LPV DA	977/18 200 (200-½)			
LNAV/VNAV DA	1227/45 450 (500-⅞)			
LNAV MDA	1260/24 483 (500-½)		1260/50 483 (500-1)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)



REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L, and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

EC-2, 25 FEB 2021 to 22 APR 2021
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CLEVELAND, OHIO | AL-84 (FAA) | 20366

WAAS CH 77506 W24B	APP CRS 238°	Rwy ldg 9956 TDZE 786 Apt Elev 799

RNAV (GPS) Y RWY 24L
CLEVELAND-HOPKINS INTL (CLE)

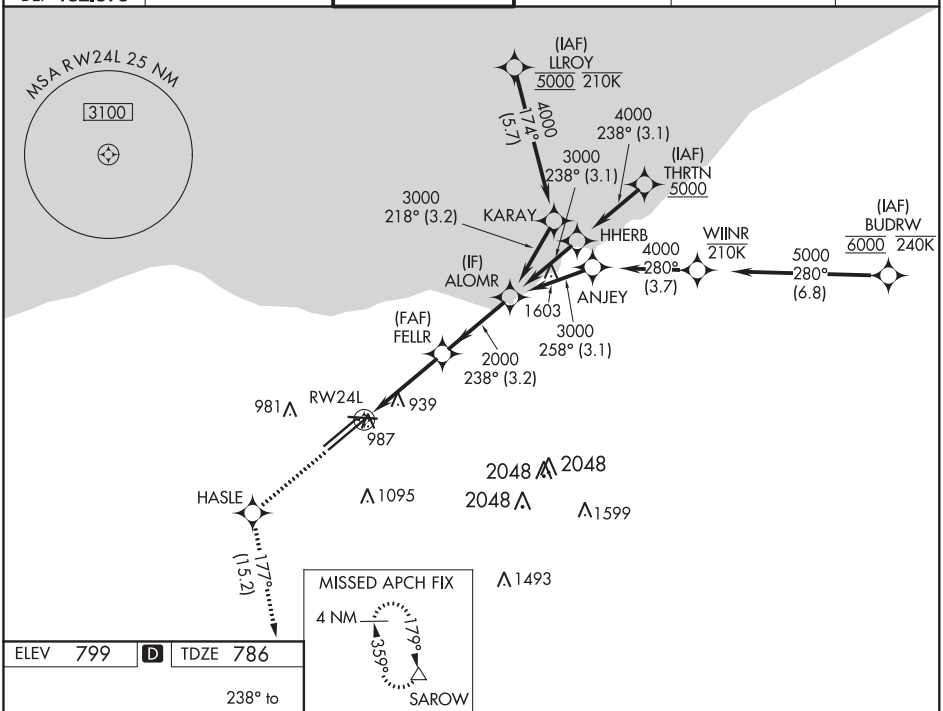
RNP APCH.

Circling Rwy 10 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C.

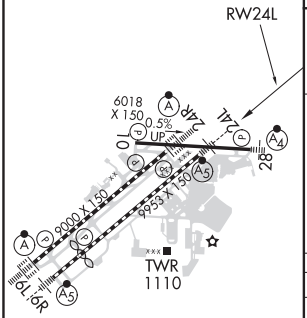
MALSR

MISSED APPROACH: Climb to 3000 direct HASLE and on track 177° to SAROW and hold.

D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



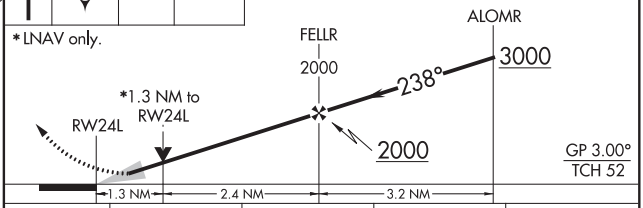
ELEV 799 | D | TDZE 786



3000	HASLE	tr 177°	SAROW

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 48).

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	986/18 200 (200-½)			
LNAV/VNAV DA	1168/35 382 (400-⅝)			
LNAV MDA	1240/24 454 (500-½)		1240/45 454 (500-⅞)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6L-24R, 6R-24L and 10-28

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WAAS CH 60904 W24A	APP CRS 238°	Rwy ldg 9000 TDZE 780 Apt Elev 799

RNAV (GPS) Y RWY 24R
CLEVELAND-HOPKINS INTL (CLE)

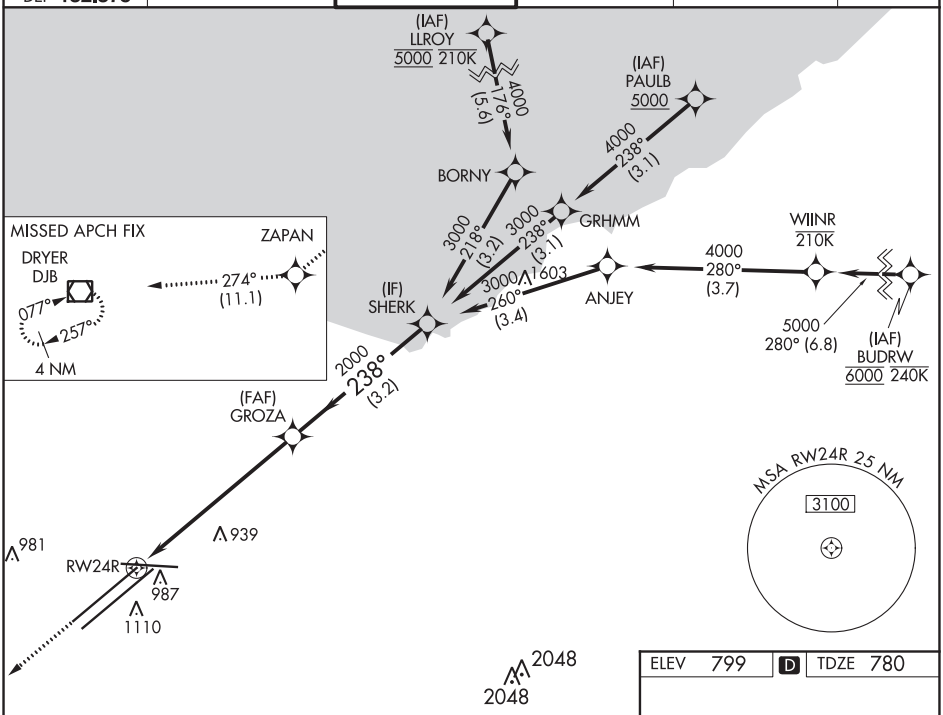
RNP APCH.

Circling Rwy 10 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C.

ALSF-2

MISSED APPROACH: Climb to 3000 direct ZAPAN and on track 274° to DJB VOR/DME and hold.

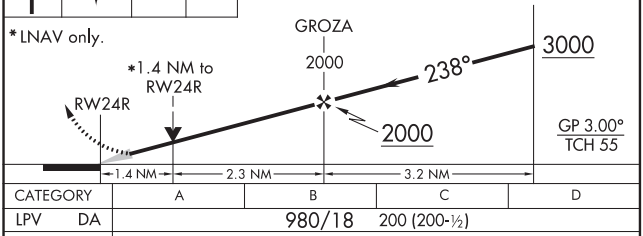
D-ATIS	CLEVELAND APP CON	CLEVELAND TOWER	GND CON	CLNC DEL	CPDLC
ARR 127.85 DEP 132.375	124.0 346.325	124.5 273.45	121.7 273.45	125.05 273.45	



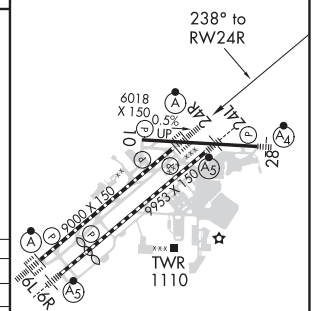
3000	ZAPAN	tr 274°	DJB

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 65).

*LNAV only.



ELEV 799 | D | TDZE 780



CATEGORY	A	B	C	D
LPV DA	980/18 200 (200-½)			
LNAV/VNAV DA	1168/35 388 (400-⅝)			
LNAV MDA	1240/24 460 (500-½)		1240/45 460 (500-⅞)	
C CIRCLING	1420-1 621 (700-1)		1420-1¾ 621 (700-1¾)	1420-2 621 (700-2)

REIL Rwy 10
TDZ/CL Rwy 6L, 6R, 24L and 24R
HIRL Rwys 6R-24L, 6L-24R and 10-28

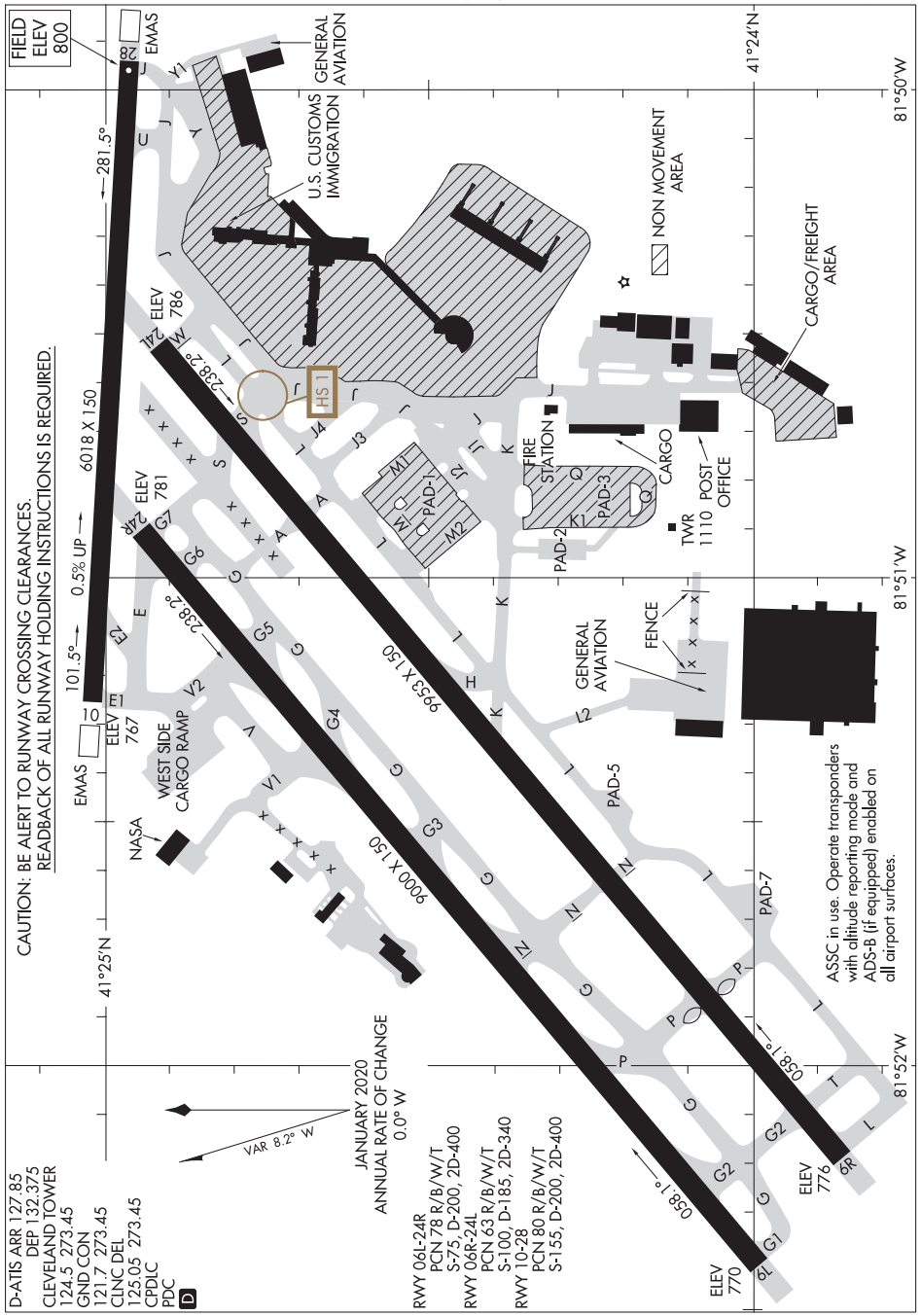
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

20366

AIRPORT DIAGRAM

AL-84 (FAA)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO



AIRPORT DIAGRAM

20366

CLEVELAND, OHIO
CLEVELAND-HOPKINS INTL (CLE)

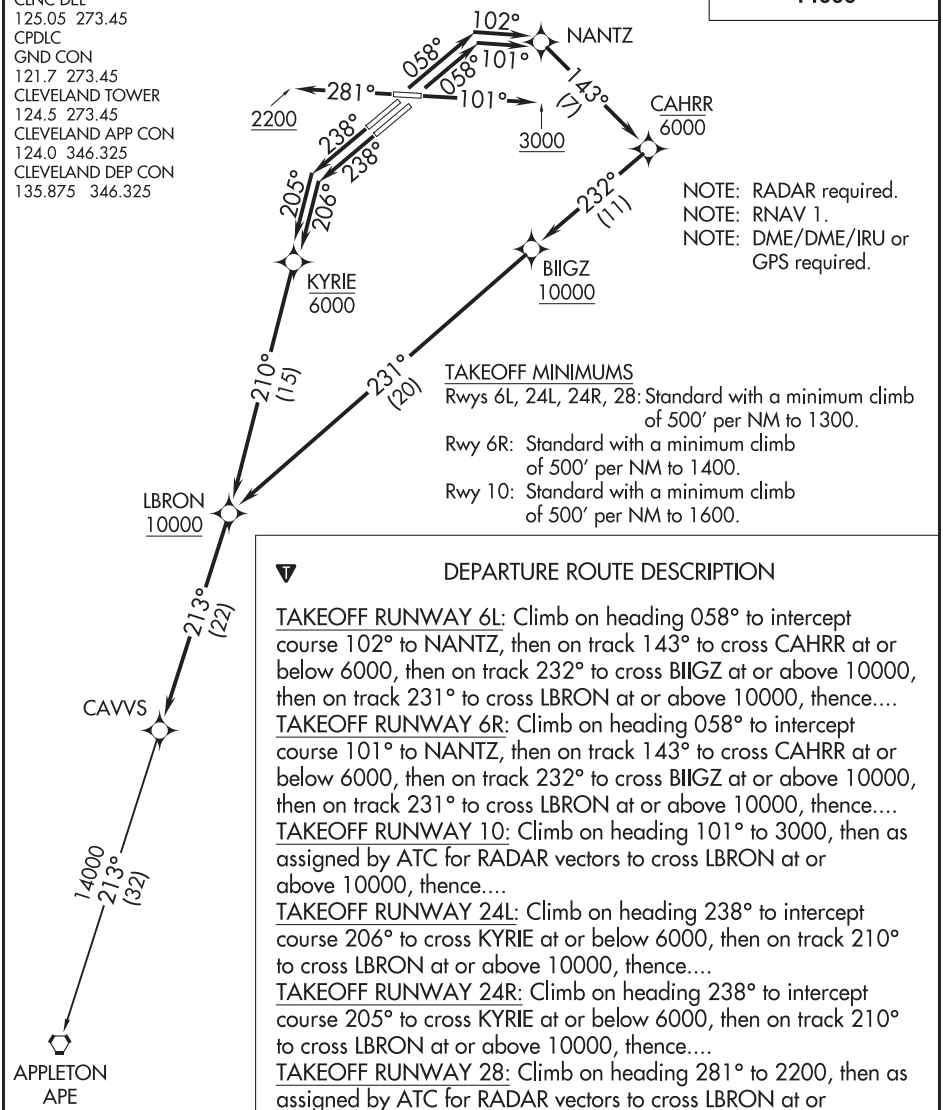
EC-2, 25 FEB 2021 to 22 APR 2021

CAVVS FOUR DEPARTURE (RNAV)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO

D-ATIS
132.375
CLNC DEL
125.05 273.45
CPDLC
GND CON
121.7 273.45
CLEVELAND TOWER
124.5 273.45
CLEVELAND APP CON
124.0 346.325
CLEVELAND DEP CON
135.875 346.325

TOP ALTITUDE: 14000



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

TAKEOFF MINIMUMS
Rwys 6L, 24L, 24R, 28: Standard with a minimum climb of 500′ per NM to 1300.
Rwy 6R: Standard with a minimum climb of 500′ per NM to 1400.
Rwy 10: Standard with a minimum climb of 500′ per NM to 1600.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6L: Climb on heading 058° to intercept course 102° to NANTZ, then on track 143° to cross CAHRR at or below 6000, then on track 232° to cross BIIGZ at or above 10000, then on track 231° to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 6R: Climb on heading 058° to intercept course 101° to NANTZ, then on track 143° to cross CAHRR at or below 6000, then on track 232° to cross BIIGZ at or above 10000, then on track 231° to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 10: Climb on heading 101° to 3000, then as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 24L: Climb on heading 238° to intercept course 206° to cross KYRIE at or below 6000, then on track 210° to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 24R: Climb on heading 238° to intercept course 205° to cross KYRIE at or below 6000, then on track 210° to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 28: Climb on heading 281° to 2200, then as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....

....on track 213° to CAVVS, then on (transition). Maintain 14000, expect filed altitude ten minutes after departure.

APPLETON TRANSITION (CAVVS4.APE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

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(GTLKE4.GTLKE) 20142

AL-84 (FAA)

GTLKE FOUR DEPARTURE (RNAV)

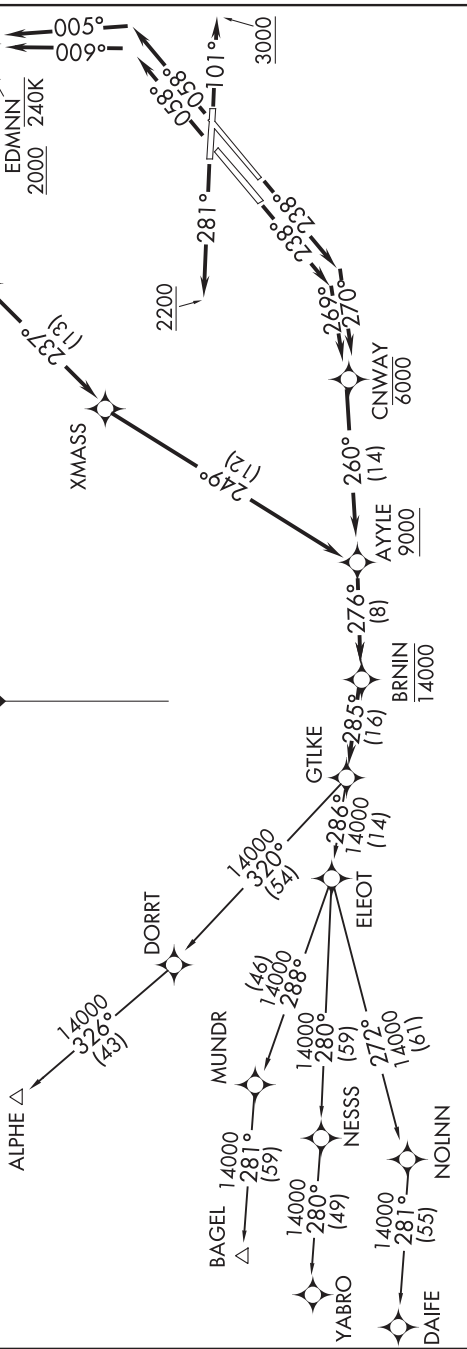
CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO

TOP ALTITUDE: 14000

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: BAGEL TRANSITION: For aircraft landing MDW only, or as assigned by ATC.
NOTE: DAIFE TRANSITION: For aircraft landing ORD only, or as assigned by ATC.

TAKEOFF MINIMUMS
Rwys 6L/R, 24L/R, 28: Standard with a minimum climb of 500' per NM to 1300.
Rwy 10: Standard with a minimum climb of 500' per NM to 1600.

D-ATIS 132.375
CLNC DEL 125.05 273.45
CPDLC
GND CON 121.7 273.45
CLEVELAND TOWER 124.5 273.45
CLEVELAND APP CON 124.0 346.325
CLEVELAND DEP CON 128.25 346.325



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

GTLKE FOUR DEPARTURE (RNAV)

(GTLKE4.GTLKE) 26MAR20

CLEVELAND, OHIO
CLEVELAND-HOPKINS INTL (CLE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6L: Climb on heading 058° to intercept course 009° to cross EDMNN at or above 2000 and at or below 240K, then on track 318° to FTTZZ, then on track 263° to cross GRALD at or above 8000, then on track 237° to XMASS, then on track 249° to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 6R: Climb on heading 058° to intercept course 005° to cross EDMNN at or above 2000 and at or below 240K, then on track 318° to FTTZZ, then on track 263° to cross GRALD at or above 8000, then on track 237° to XMASS, then on track 249° to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 10: Climb on heading 101° to 3000, then as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 24L: Climb on heading 238° to intercept course 270° to cross CNWAY at or below 6000, then on track 260° to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 24R: Climb on heading 238° to intercept course 269° to cross CNWAY at or below 6000, then on track 260° to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 28: Climb on heading 281° to 2200, then as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

....on track 276° to cross BRNIN at or below 14000, then on track 285° to GTLKE then on (transition). Maintain 14000, expect filed altitude ten minutes after departure.

ALPHE TRANSITION (GTLKE4.ALPHE)
BAGEL TRANSITION (GTLKE4.BAGEL)
DAIFE TRANSITION (GTLKE4.DAIFE)
YABRO TRANSITION (GTLKE4.YABRO)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

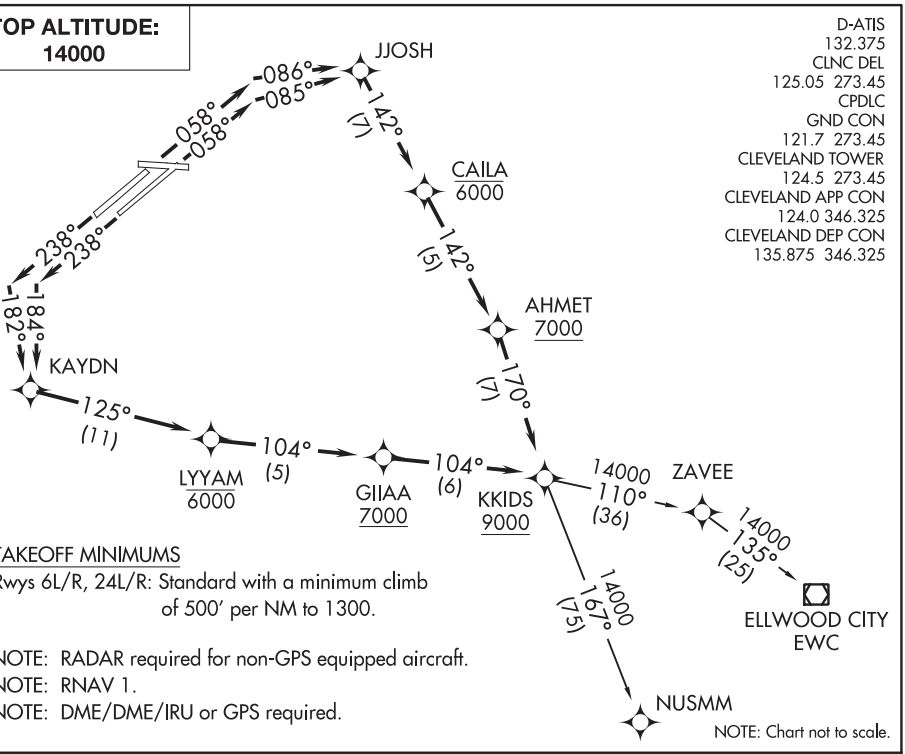
(KKIDS1.KKIDS) 20142 AL-84 (FAA)

KKIDS ONE DEPARTURE (RNAV)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO

TOP ALTITUDE: 14000

D-ATIS
132.375
CLNC DEL
125.05 273.45
CPDLC
GND CON
121.7 273.45
CLEVELAND TOWER
124.5 273.45
CLEVELAND APP CON
124.0 346.325
CLEVELAND DEP CON
135.875 346.325



NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwys 6L/R, 24L/R: Standard with a minimum climb of 500′ per NM to 1300.

NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 06L: Climb on heading 058° to intercept course 086° to JJOSH, then on track 142° to cross CAILA at or below 6000, then on track 142° to cross AHMET at or above 7000, then on track 170° to cross KKIDS at or above 9000 thence....

TAKEOFF RUNWAY 06R: Climb on heading 058° to intercept course 085° to JJOSH, then on track 142° to cross CAILA at or below 6000, then on track 142° to cross AHMET at or above 7000, then on track 170° to cross KKIDS at or above 9000 thence....

TAKEOFF RUNWAY 24L: Climb on heading 238° to intercept course 184° to KAYDN, then on track 125° to cross LYYAM at or below 6000, then on track 104° to cross GIIAA at or above 7000, then on track 104° to cross KKIDS at or above 9000, thence....

TAKEOFF RUNWAY 24R: Climb on heading 238° to intercept course 182° to KAYDN, then on track 125° to cross LYYAM at or below 6000, then on track 104° to cross GIIAA at or above 7000, then on track 104° to cross KKIDS at or above 9000, thence....

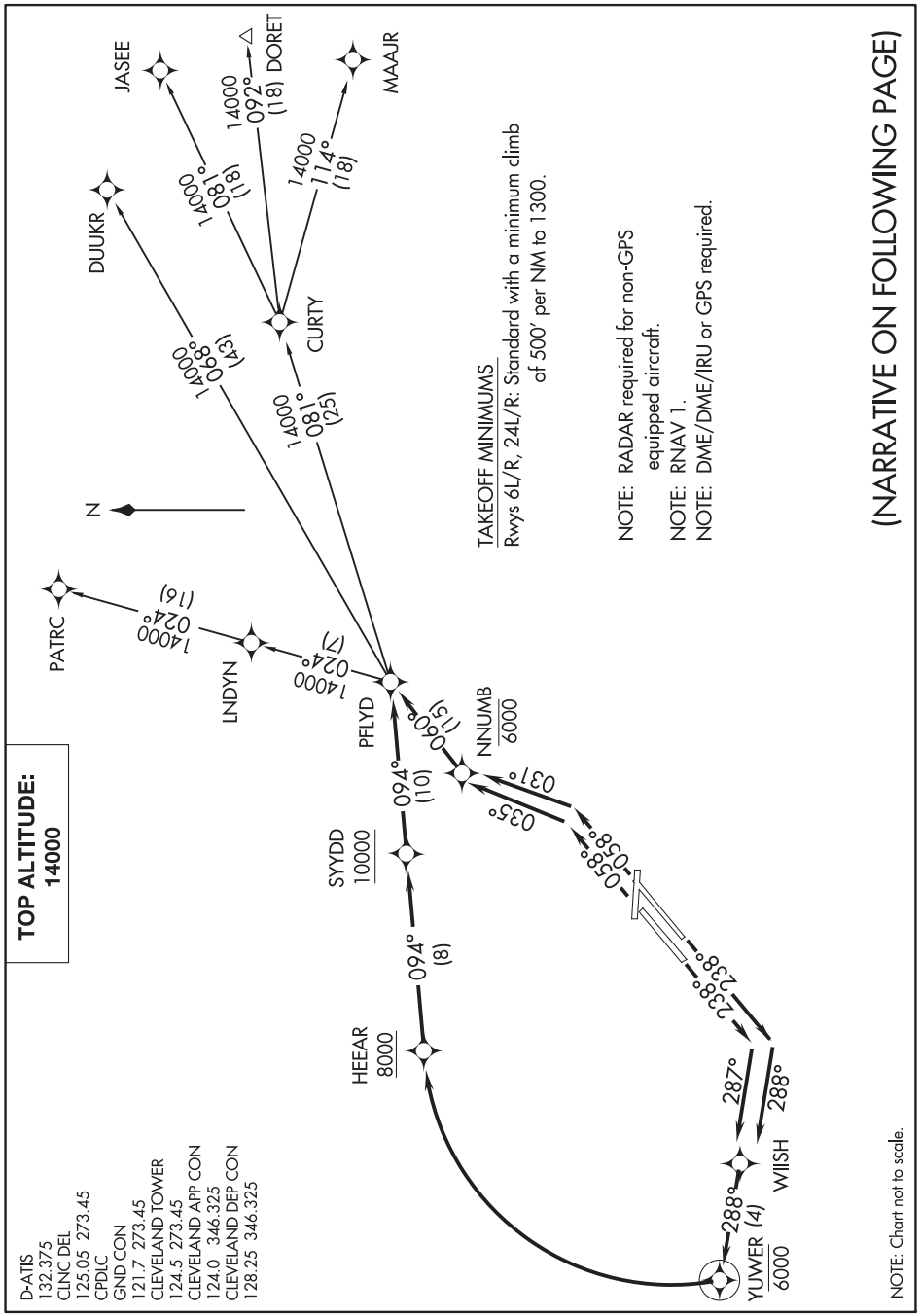
....on (Transition). Maintain 14000, expect filed altitude ten minutes after departure.

ELLWOOD CITY TRANSITION (KKIDS1.EWC)
NUSMM TRANSITION (KKIDS1.NUSMM)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

PFLYD ONE DEPARTURE (RNAV)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

PFLYD ONE DEPARTURE (RNAV)

CLEVELAND, OHIO
CLEVELAND-HOPKINS INTL (CLE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 06L: Climb on heading 058° to intercept course 035° to cross NNUMB at or below 6000, then on track 060° to PFLYD, thence....

TAKEOFF RUNWAY 06R: Climb on heading 058° to intercept course 031° to cross NNUMB at or below 6000, then on track 060° to PFLYD, thence....

TAKEOFF RUNWAY 24L: Climb on heading 238° to intercept course 288° to WIISH, then on track 288° to cross YUWER at or below 6000, then right turn direct to cross HEEAR at or above 8000, then on track 094° to cross SYYDD at or above 10000, then on track 094° to PFLYD, thence....

TAKEOFF RUNWAY 24R: Climb on heading 238° to intercept course 287° to WIISH, then on track 288° to cross YUWER at or below 6000, then right turn direct to cross HEEAR at or above 8000, then on track 094° to cross SYYDD at or above 10000, then on track 094° to PFLYD, thence....

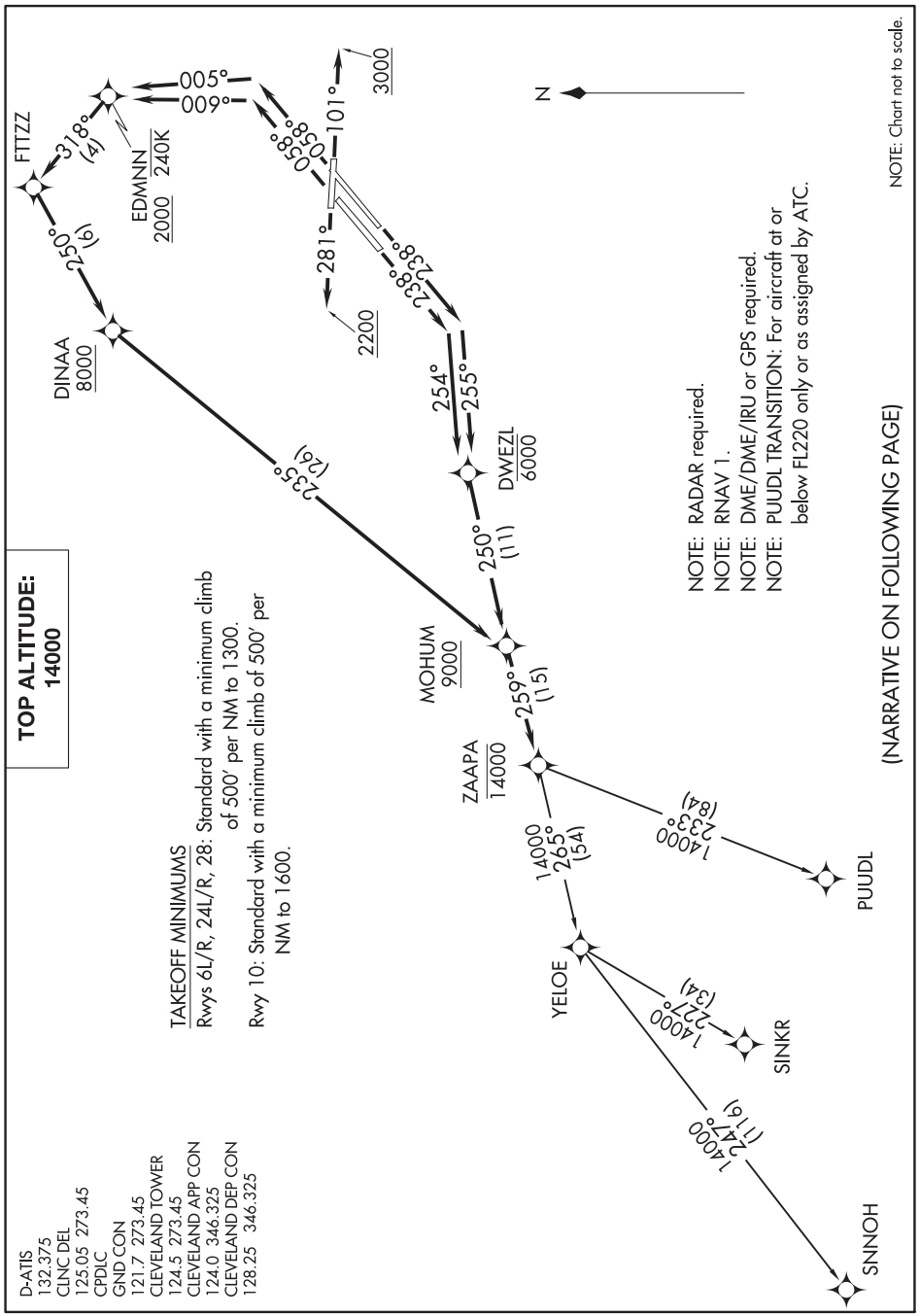
....on (Transition). Maintain 14000, expect filed altitude ten minutes after departure.

DORET TRANSITION (PFLYD1.DORET)
DUUKR TRANSITION (PFLYD1.DUUKR)
JASEE TRANSITION (PFLYD1.JASEE)
MAAJR TRANSITION (PFLYD1.MAAJR)
PATRC TRANSITION (PFLYD1.PATRC)

EC-2, 25 FEB 2021 to 22 APR 2021

ZAAPA FIVE DEPARTURE (RNAV)

CLEVELAND-HOPKINS INTL (CLE)
CLEVELAND, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6L: Climb on heading 058° to intercept course 009° to cross EDMNN at or above 2000 and at or below 240K, then on track 318° to FTTZZ, then on track 250° to cross DINAA at or above 8000, then on track 235° to cross MOHUM at or above 9000, thence....

TAKEOFF RUNWAY 6R: Climb on heading 058° to intercept course 005° to cross EDMNN at or above 2000 and at or below 240K, then on track 318° to FTTZZ, then on track 250° to cross DINAA at or above 8000, then on track 235° to cross MOHUM at or above 9000, thence....

TAKEOFF RUNWAY 10: Climb on heading 101° to 3000, then as assigned by ATC for RADAR vectors to cross MOHUM at or above 9000, thence....

TAKEOFF RUNWAY 24L: Climb on heading 238° to intercept course 255° to cross DWEZL at or below 6000, then on track 250° to cross MOHUM at or above 9000, thence....

TAKEOFF RUNWAY 24R: Climb on heading 238° to intercept course 254° to cross DWEZL at or below 6000, then on track 250° to cross MOHUM at or above 9000, thence....

TAKEOFF RUNWAY 28: Climb on heading 281° to 2200, then as assigned by ATC for RADAR vectors to cross MOHUM at or above 9000, thence....

....on track 259° to cross ZAAPA at or below 14000, then on (transition). Maintain 14000 or as assigned by ATC, expect filed altitude ten minutes after departure.

PUUDL TRANSITION (ZAAPA5.PUUDL)
SINKR TRANSITION (ZAAPA5.SINKR)
SNNOH TRANSITION (ZAAPA5.SNNOH)

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-CGF	APP CRS	Rwy ldg	5000
111.1	237°	TDZE	873
Chan 48		Apt Elev	876

ILS or LOC RWY 24
CUYAHOGA COUNTY (CGF)

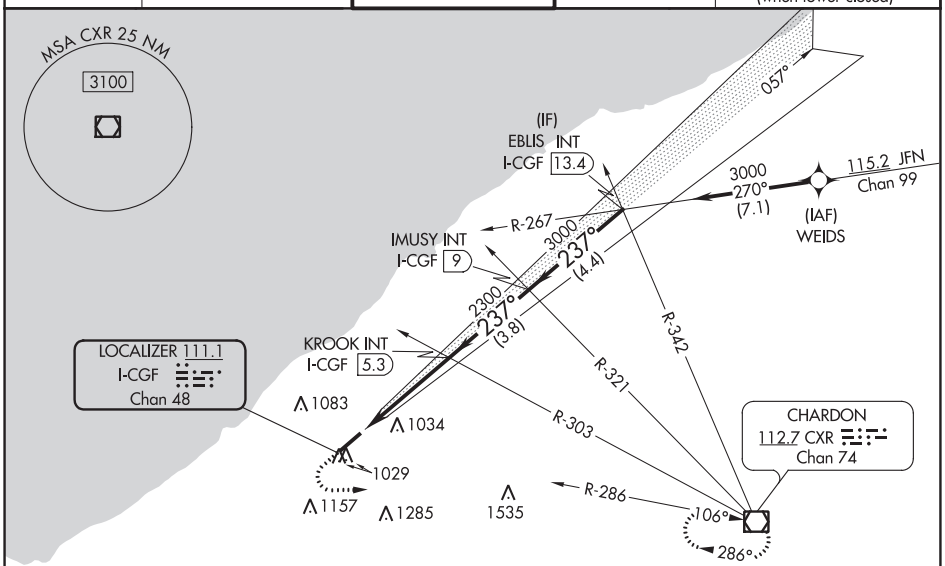
RNAV 1-GPS or RADAR required for procedure entry.
Aircraft not GPS equipped - RADAR required for procedure entry.

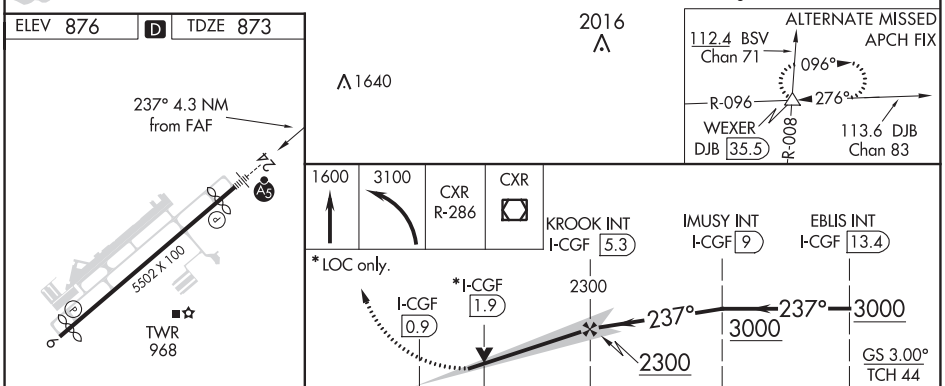
Rwy 24 helicopter visibility reduction below ¾ SM NA.
For inop ALS increase S-LOC Cats C/D to 1 SM.

MALSR

MISSED APPROACH: Climb to 1600 then climbing left turn to 3100 on CXR VOR/DME R-286 to CXR VOR/DME and hold.

AWOS-3	CLEVELAND APP CON	COUNTY TOWER★	GND CON	CLNC DEL
119.95	125.35 346.325	118.5 (CTAF) L	121.85	121.85 (when tower closed)





FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

CATEGORY	A	B	C	D
S-ILS 24	1073-½ 200 (200-½)			
S-LOC 24	1240-½ 367 (400-½)		1240-⅝ 367 (400-⅝)	
C CIRCLING	1400-1 524 (600-1)	1500-1 624 (700-1)	1560-2 684 (700-2)	1620-2½ 744 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

CLEVELAND, OHIO | AL-5027 (FAA) | 20142

WAAS CH 70628 W06A	APP CRS 057°	Rwy ldg 5184 TDZE 874 Apt Elev 876

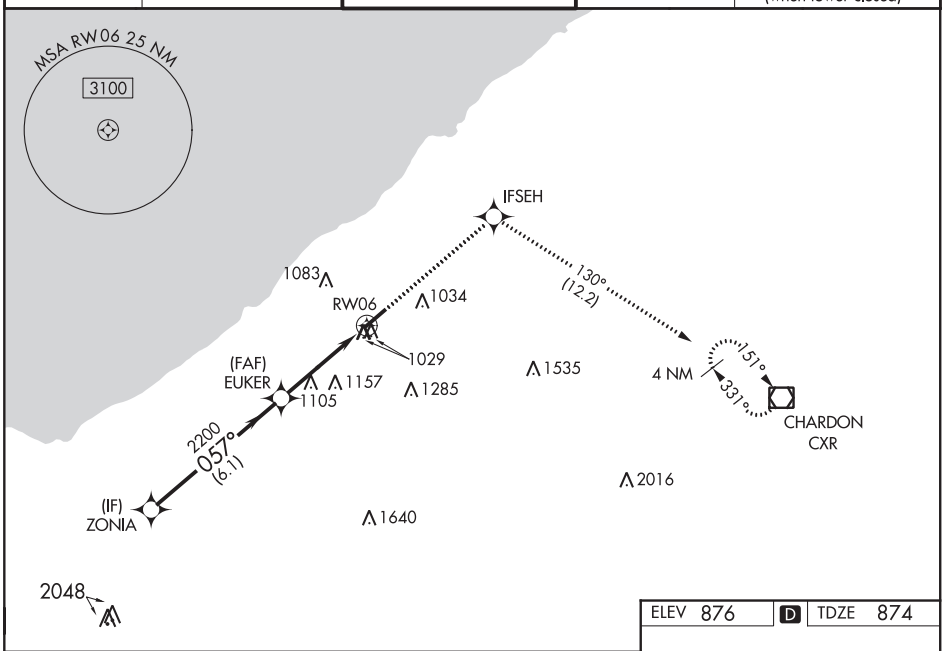
RNAV (GPS) RWY 6
CUYAHOGA COUNTY (CGF)

RNP APCH.

Rwy 6 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 38°C.

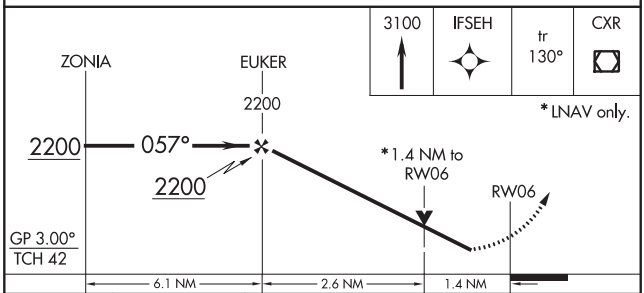
MISSED APPROACH:
Climb to 3100 direct IFSEH and on track 130° to CXR VOR/DME and hold.

AWOS-3	CLEVELAND APP CON	COUNTY TOWER★	GND CON	CLNC DEL
119.95	125.35 346.325	118.5 (CTAF) L	121.85	121.85 (when tower closed)



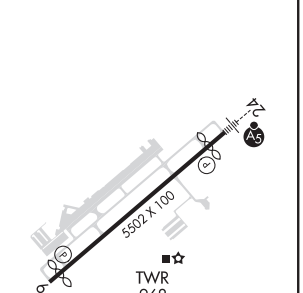
3100	IFSEH	tr 130°	CXR

* LNAV only.



CATEGORY	A	B	C	D
LPV DA	1175-⅞ 301 (300-⅞)			
LNAV/VNAV DA	1375-1⅜ 501 (500-1⅜)			
LNAV MDA	1360-1 486 (500-1)		1360-1⅜ 486 (500-1⅜)	
C CIRCLING	1400-1 524 (600-1)	1500-1 624 (700-1)	1560-2 684 (700-2)	1600-2¼ 724 (800-2¼)

ELEV 876 | D | TDZE 874



REIL Rwy 6 L
HIRL Rwy 6-24 L

CLEVELAND, OHIO
Amdt 2 08NOV18

41°34'N-81°29'W

CUYAHOGA COUNTY (CGF)
RNAV (GPS) RWY 6

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 42528 W24A	APP CRS 238°	Rwy ldg 5000 TDZE 873 Apt Elev 876

RNAV (GPS) RWY 24
CUYAHOGA COUNTY (CGF)

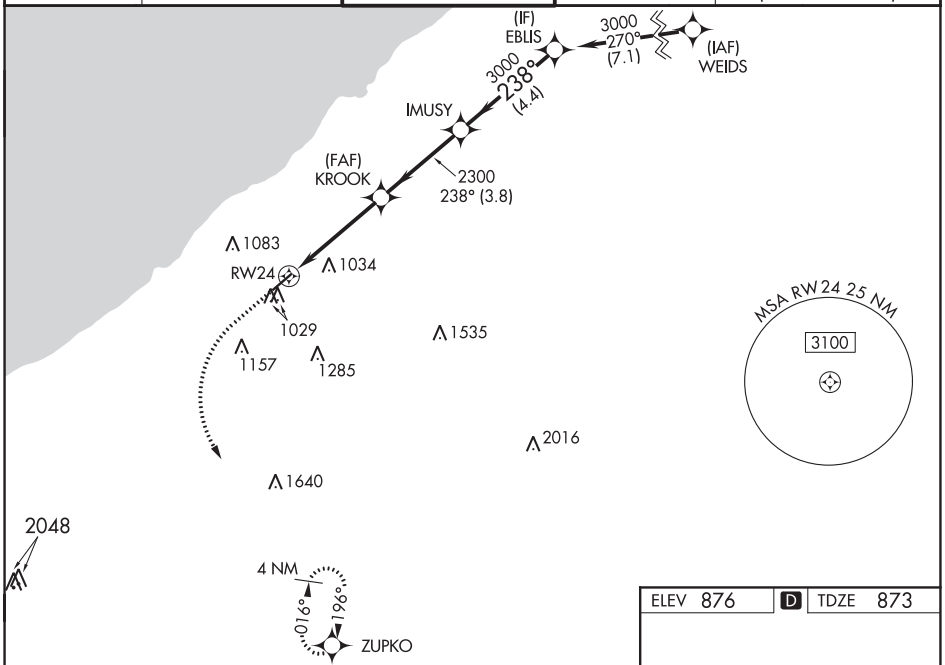
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 38°C . For inop ALS increase LNAV/VNAV visibility all Cats to ⅞ SM, LNAV Cat C, D to 1⅛ SM.

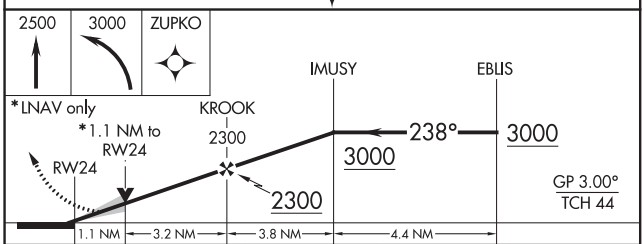
MALSR

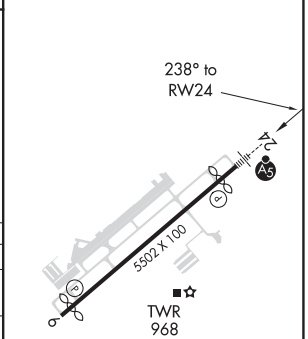
MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct ZUPKO and hold.

AWOS-3	CLEVELAND APP CON	COUNTY TOWER★	GND CON	CLNC DEL
119.95	125.35 346.325	118.5 (CTAF) L	121.85	121.85 (when tower closed)



ELEV 876 D TDZE 873





CATEGORY	A	B	C	D
LPV DA	1073-½ 200 (200-½)			
LNAV/VNAV DA	1178-½ 305 (400-½)			
LNAV MDA	1280-½ 407 (500-½)		1280-¾ 407 (500-¾)	
C CIRCLING	1400-1 524 (600-1)	1500-1 624 (700-1)	1560-2 684 (700-1)	1620-2½ 744 (800-2½)

REIL Rwy 6 L
HIRL Rwy 6-24 L

EC-2, 25 FEB 2021 to 22 APR 2021

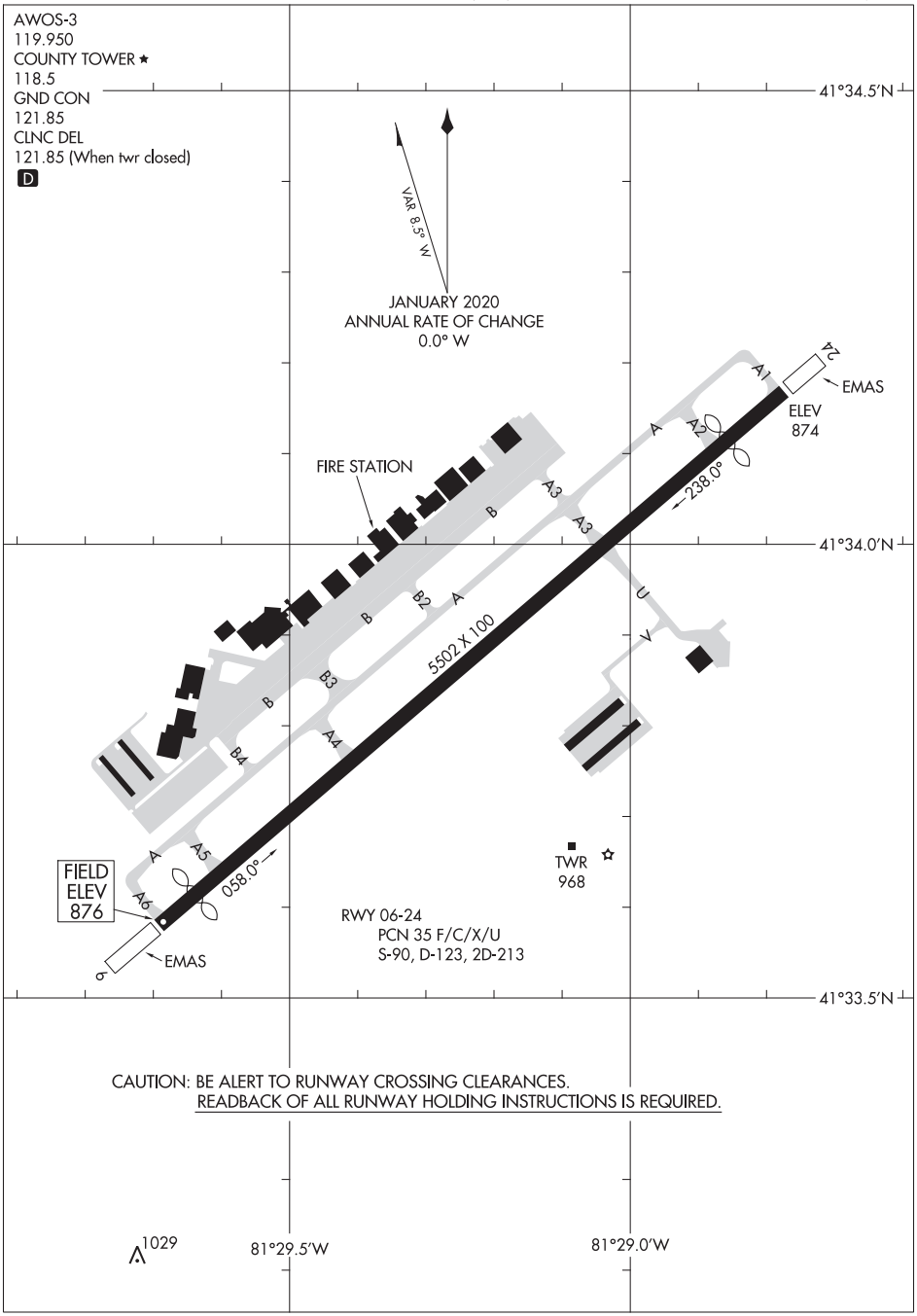
EC-2, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-5027 (FAA)

CUYAHOGA COUNTY (CGF)
CLEVELAND, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

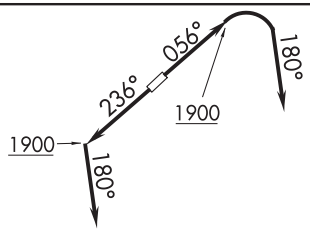
AIRPORT DIAGRAM
20086
CLEVELAND, OHIO
CUYAHOGA COUNTY (CGF)

AHMET FOUR DEPARTURE (RNAV)

CUYAHOGA COUNTY (CGF)
CLEVELAND, OHIO

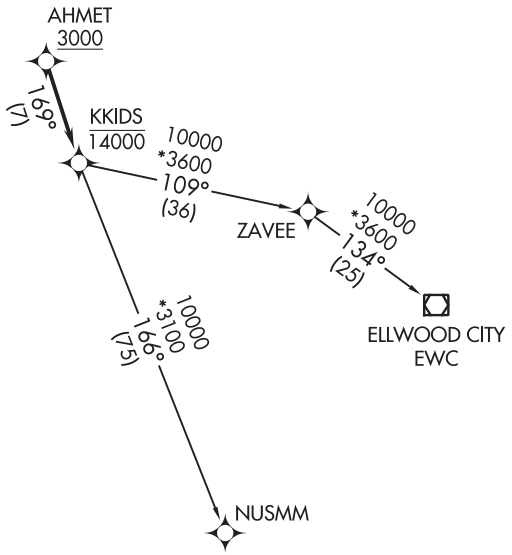
AWOS-3
119.950
CLNC DEL
121.85 (when tower closed)
GND CON
121.85
COUNTY TOWER ★
118.5 (CTAF)
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS:
Rwys 6, 24: Standard with minimum climb of 500′ per NM to 1400.

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



NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb on heading 056° to 1900, then right turn on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAY 24: Climb on heading 236° to 1900, then on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....

....on track 169° to cross KKIDS at or below 14000, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

ELLWOOD CITY TRANSITION (AHMET4.EWC)
NUSMM TRANSITION (AHMET4.NUSMM)

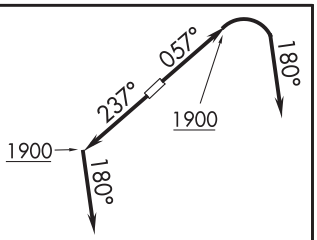
(CAVVS4.CAVVS) 20086 AL-5027 (FAA)

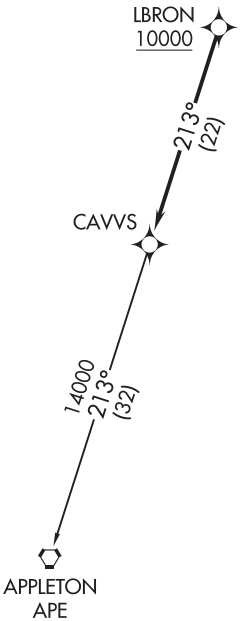
CAVVS FOUR DEPARTURE (RNAV)

CUYAHOGA COUNTY (CGF)
CLEVELAND, OHIO

AWOS-3
119.950
CLNC DEL
121.85 (when tower closed)
GND CON
121.85
COUNTY TOWER ★
118.5 (CTAF)
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC





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

TAKEOFF MINIMUMS:
Rwys 6, 24: Standard with a minimum climb of 500′ per NM to 1400.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb on heading 057° to 1900, then right turn heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 24: Climb on heading 237° to 1900, then on heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....

....on track 213° to CAVVS, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

APPLETON TRANSITION (CAVVS4.APE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GTLKE FOUR DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 6, 24: Standard with a minimum climb of 500′ per NM to 1400.

DEPARTURE ROUTE DESCRIPTION

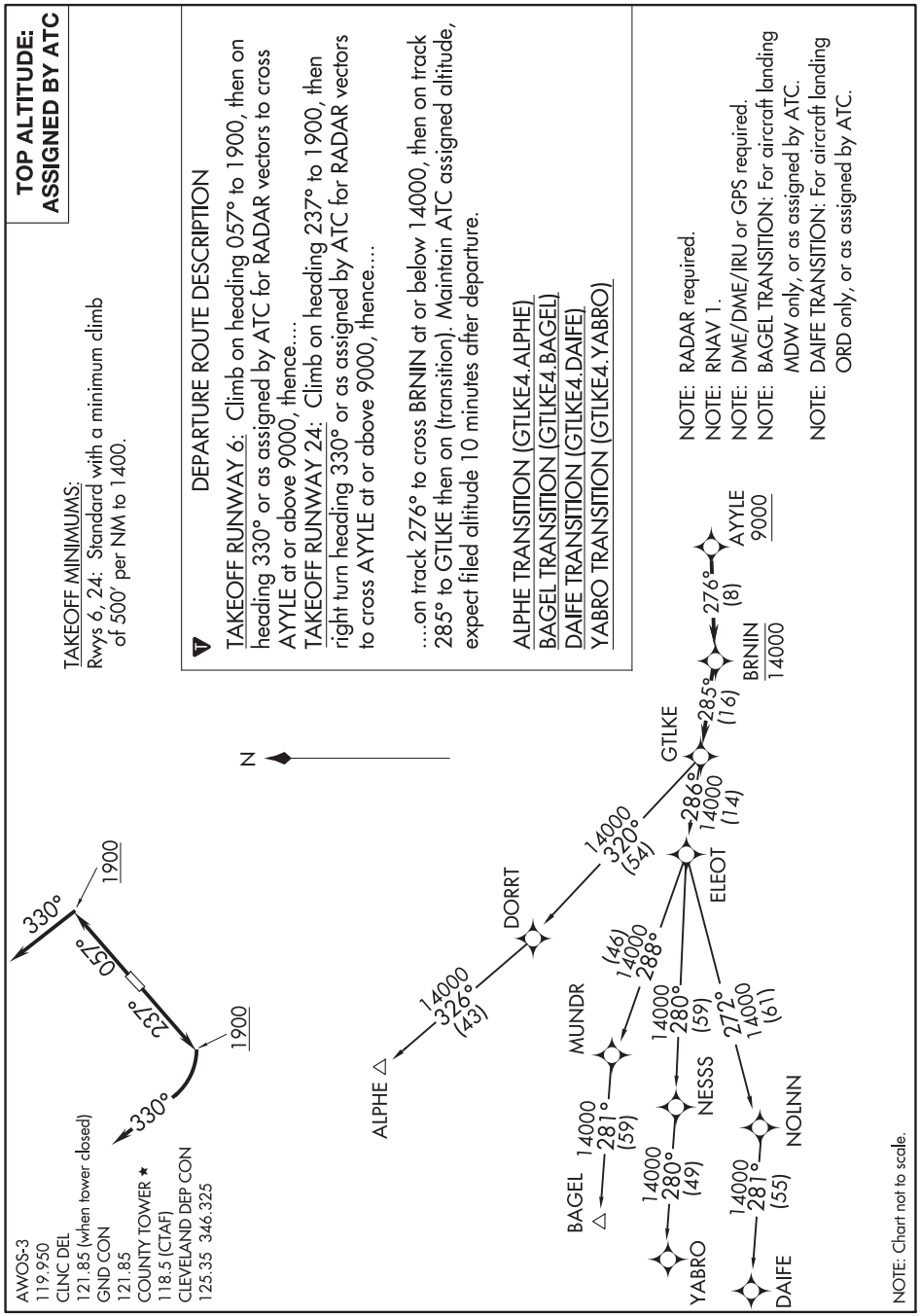
TAKEOFF RUNWAY 6: Climb on heading 057° to 1900, then on heading 330° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 24: Climb on heading 237° to 1900, then right turn heading 330° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

....on track 276° to cross BRNIN at or below 14000, then on track 285° to GTLKE then on (transition). Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

ALPHE TRANSITION (GTLKE4.ALPHE)
BAGEL TRANSITION (GTLKE4.BAGEL)
DAIFE TRANSITION (GTLKE4.DAIFE)
YABRO TRANSITION (GTLKE4.YABRO)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: BAGEL TRANSITION: For aircraft landing MDW only, or as assigned by ATC.
NOTE: DAIFE TRANSITION: For aircraft landing ORD only, or as assigned by ATC.



EC-2, 25 FEB 2021 to 22 APR 2021

GTLKE FOUR DEPARTURE (RNAV)

CLEVELAND, OHIO
CUYAHOGA COUNTY (CGF)

(MYCAR4.MYCAR) 20086 AL-5027 (FAA)

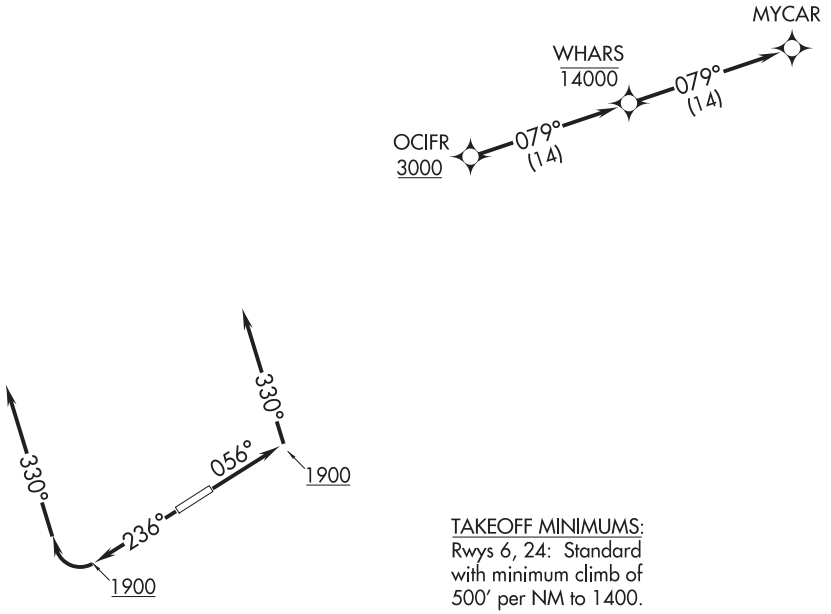
MYCAR FOUR DEPARTURE (RNAV)

CUYAHOGA COUNTY (CGF)
CLEVELAND, OHIO

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.950
CLNC DEL
121.85 (when tower closed)
GND CON
121.85
COUNTY TOWER ★
118.5 (CTAF)
CLEVELAND DEP CON
125.35 346.325

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



TAKEOFF MINIMUMS:
Rwys 6, 24: Standard with minimum climb of 500′ per NM to 1400.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 6: Climb on heading 056° to 1900, then on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAY 24: Climb on heading 236° to 1900, then right turn on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....

....on track 079° to cross WHARS at or below 14000, then on track 079° to MYCAR. Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

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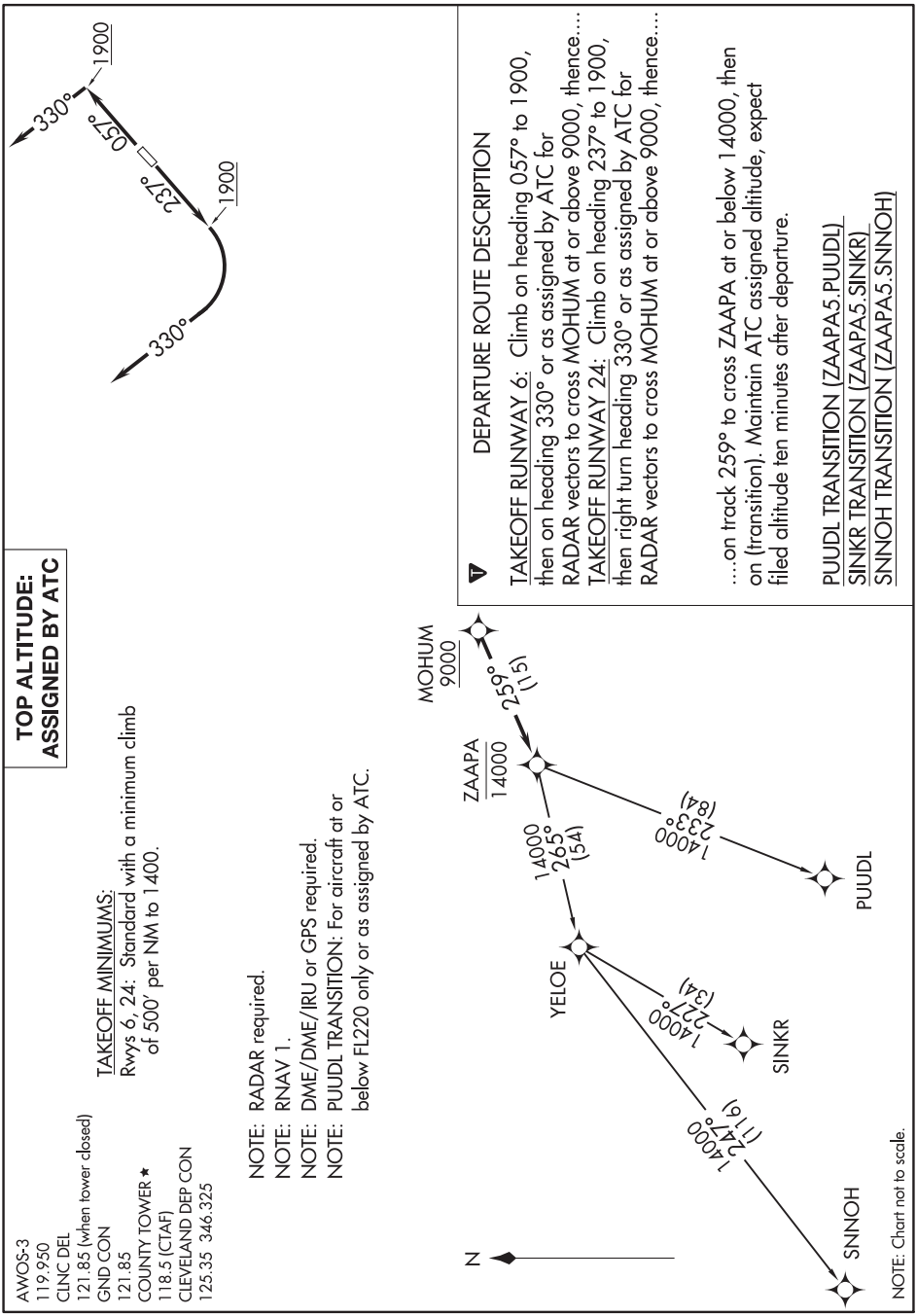
EC-2, 25 FEB 2021 to 22 APR 2021

ZAAPA FIVE DEPARTURE (RNAV)



EC-2, 25 FEB 2021 to 22 APR 2021

ZAAPA FIVE DEPARTURE (RNAV)

CLEVELAND, OHIO
CUYAHOGA COUNTY (CGF)

COLUMBUS, INDIANA

AL-594 (FAA)

20366

ILS or LOC RWY 23
COLUMBUS MUNI (BAK)

LOC I-BAK 110.7	APP CRS 228°	Rwy ldg 6401 TDZE 656 Apt Elev 656

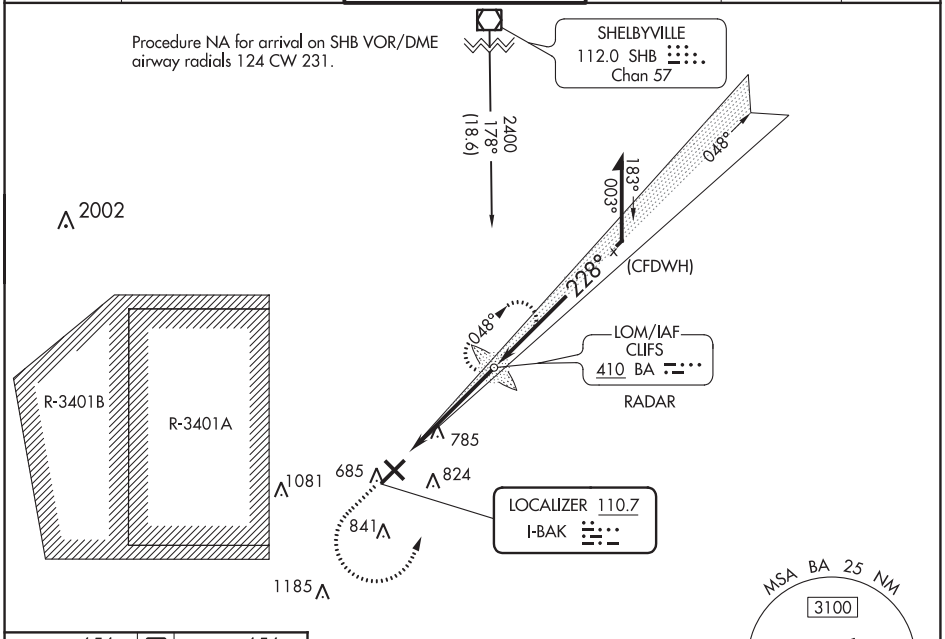
ADF or RADAR required.

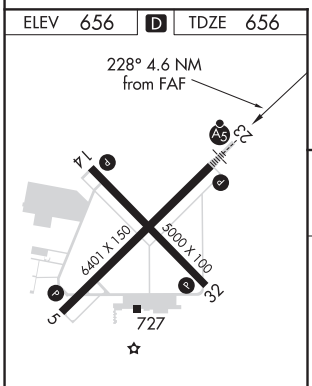
NA

MALSR

MISSED APPROACH: Climb to 1500 then climbing left turn to 2300 direct CLIFS LOM and hold.

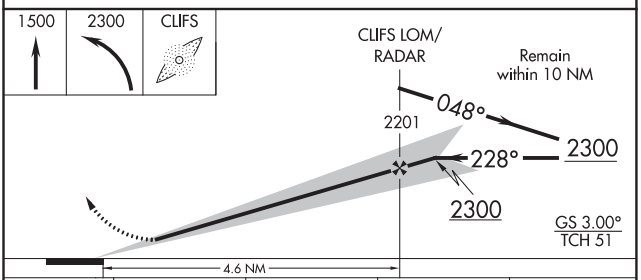
AWOS-3	INDIANAPOLIS APP CON	COLUMBUS TOWER ★	GND CON	CLNC DEL	UNICOM
119.75	134.85 317.8	118.6 (CTAF) L	121.6	134.85	122.95





MIRL Rwy 14-32 L
HIRL Rwy 5-23 L
REIL Rwys 5, 14, and 32 L

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D
S-ILS 23	856-½ 200 (200-½)			
S-LOC 23	1040-½ 384 (400-½)		1040-⅝ 384 (400-⅝)	
C CIRCLING	1140-1 484 (500-1)	1200-1 544 (600-1)	1200-1½ 544 (600-1½)	1400-2½ 744 (800-2½)

COLUMBUS, INDIANA
Amdt 8A 26MAR20

39°16′N-85°54′W

COLUMBUS MUNI (BAK)
ILS or LOC RWY 23

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	6401
033°	TDZE	653
	Apt Elev	656

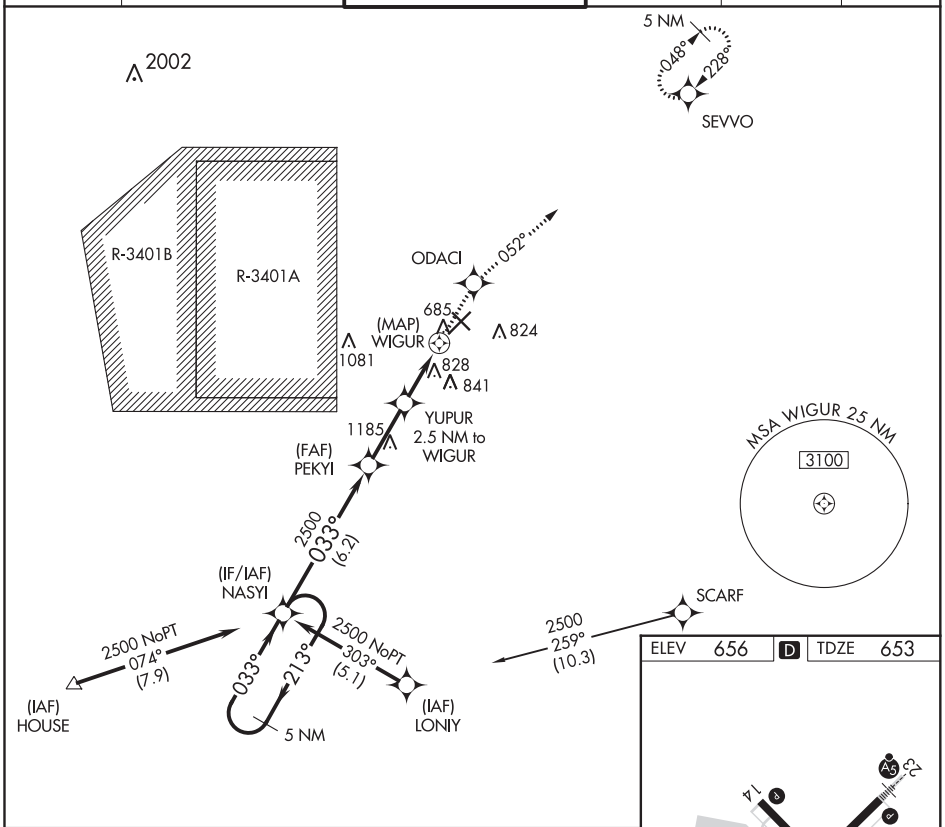
RNAV (GPS) RWY 5
COLUMBUS MUNI (BAK)

RNP APCH.

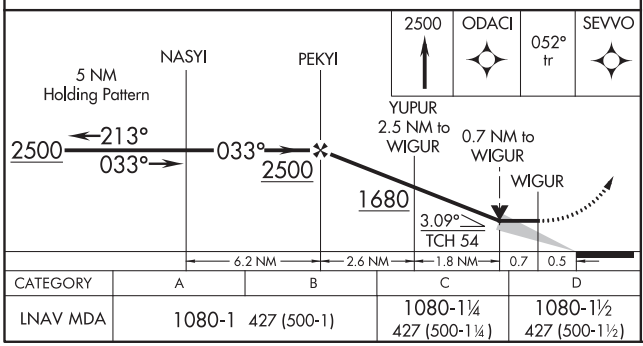
If local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDAs 100 feet. VDP NA when using Indianapolis Intl altimeter setting.

MISSED APPROACH: Climb to 2500 direct ODACI and on 052° track to SEVVO and hold.

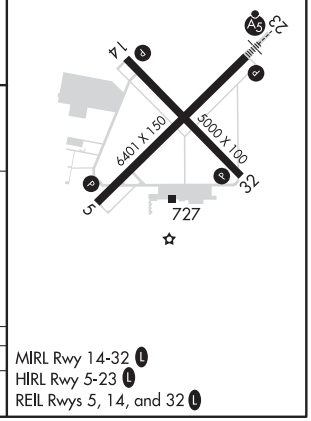
AWOS-3	INDIANAPOLIS APP CON		COLUMBUS TOWER ★	GND CON	CLNC DEL	UNICOM
119.75	134.85	317.8	118.6 (CTAF) L	121.6	134.85	122.95



ELEV	656	D	TDZE	653



CATEGORY	A	B	C	D
LNAV MDA	1080-1 427 (500-1)		1080-1¼ 427 (500-1¼)	1080-1½ 427 (500-1½)



MIRL Rwy 14-32 L
HIRL Rwy 5-23 L
REIL Rwys 5, 14, and 32 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, INDIANA

AL-594 (FAA)

20366

RNAV (GPS) RWY 14
COLUMBUS MUNI (BAK)

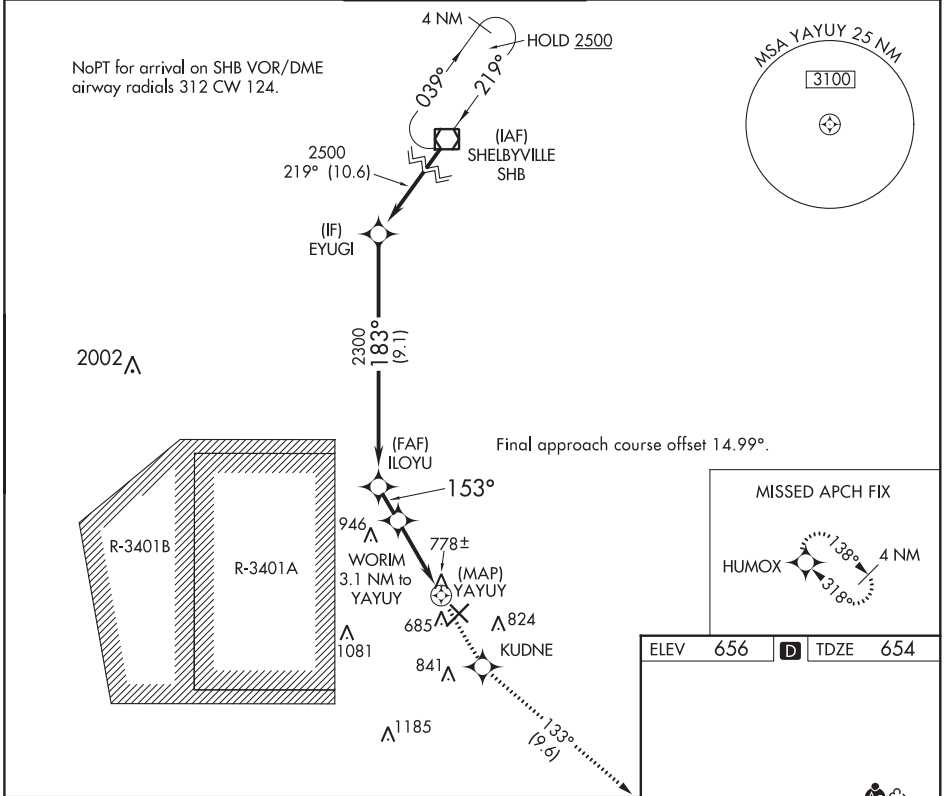
APP CRS	Rwy ldg	5000
153°	TDZE	654
	Apt Elev	656

RNP APCH.

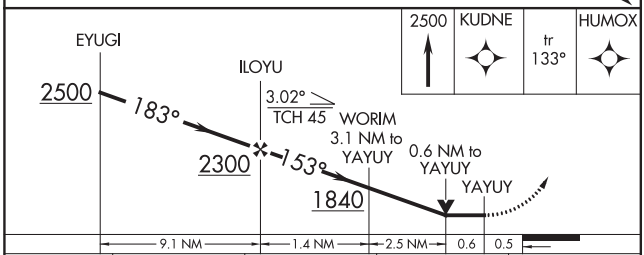
Rwy 14 helicopter visibility reduction below ¾ SM NA.

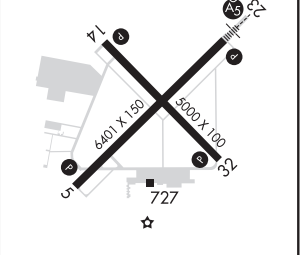
MISSED APPROACH: Climb to 2500 direct KUDNE and on track 133° to HUMOX and hold.

AWOS-3	INDIANAPOLIS APP CON		COLUMBUS TOWER ★	GND CON	CLNC DEL	UNICOM
119.75	134.85	317.8	118.6 (CTAF) L	121.6	134.85	122.95



ELEV	656	D	TDZE	654





CATEGORY	A	B	C	D
LNAV MDA	1040-1 386 (400-1)		1040-1⅛ 386 (400-1⅛)	1040-1¼ 386 (400-1¼)
C CIRCLING	1140-1 484 (500-1)	1200-1 544 (600-1)	1200-1½ 544 (600-1½)	1400-2½ 744 (800-2½)

MIRL Rwy 14-32 L
HIRL Rwy 5-23 L
REIL Rwys 5, 14, and 32 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 90399 W23A	APP CRS 228°	Rwy ldg 6401 TDZE 656 Apt Elev 656

RNAV (GPS) RWY 23
COLUMBUS MUNI (BAK)

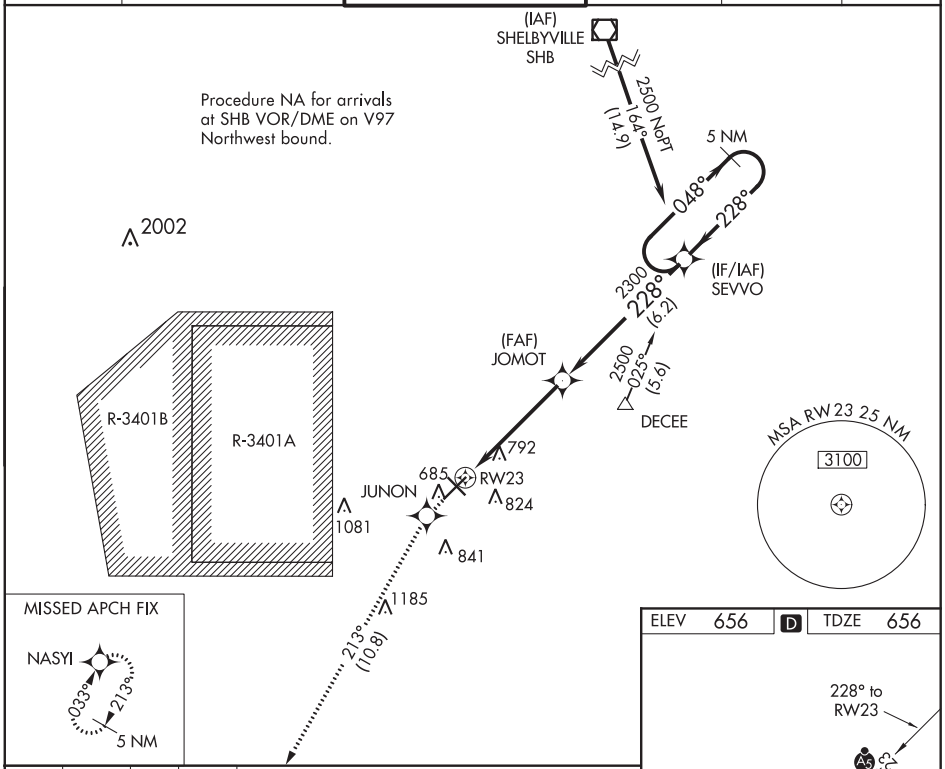
RNP APCH.

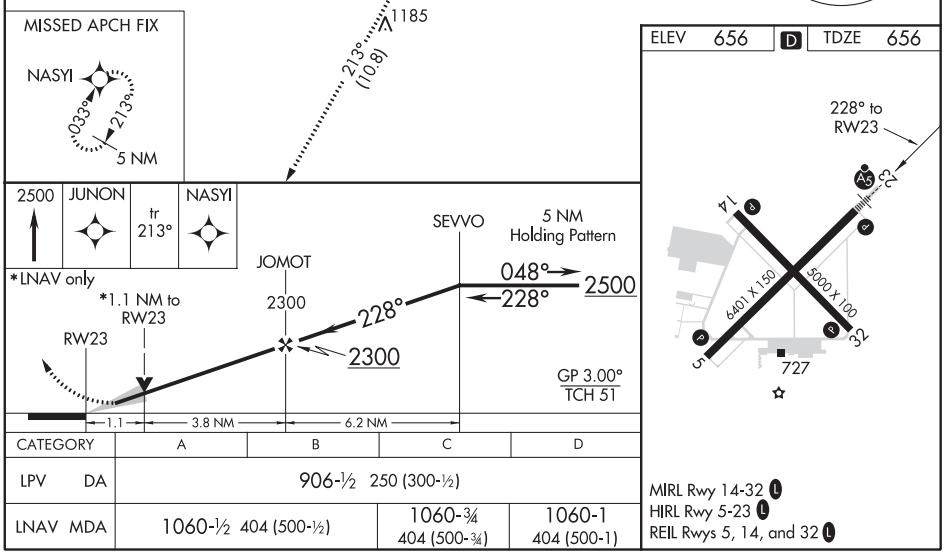
VDP NA when using Indianapolis Intl altimeter setting. If local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all DA's/MDA's 100 feet. For inoperative MALSR, increase LPV all Cats visibility to ¾ and LNAV Cat D visibility to 1¼.

MALSR

MISSED APPROACH: Climb to 2500 direct JUNON and on track 213° to NASYI and hold.

AWOS-3	INDIANAPOLIS APP CON	COLUMBUS TOWER ★	GND CON	CLNC DEL	UNICOM
119.75	134.85 317.8	118.6 (CTAF) L	121.6	134.85	122.95





CATEGORY	A	B	C	D
LPV DA	906-½ 250 (300-½)			
LNAV MDA	1060-½ 404 (500-½)		1060-¾ 404 (500-¾)	1060-1 404 (500-1)

MIRL Rwy 14-32 L
HIRL Rwy 5-23 L
REIL Rwys 5, 14, and 32 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, INDIANA AL-594 (FAA) 20366

WAAS CH 50399 W32A	APP CRS 318°	Rwy ldg 5000 TDZE 653 Apt Elev 656

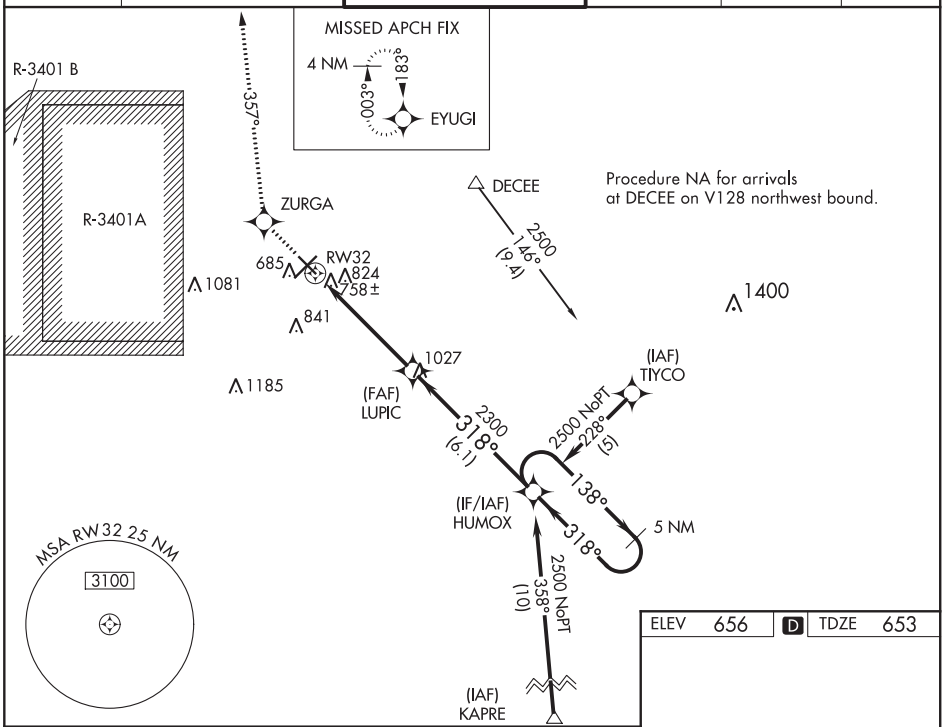
RNAV (GPS) RWY 32
COLUMBUS MUNI (BAK)

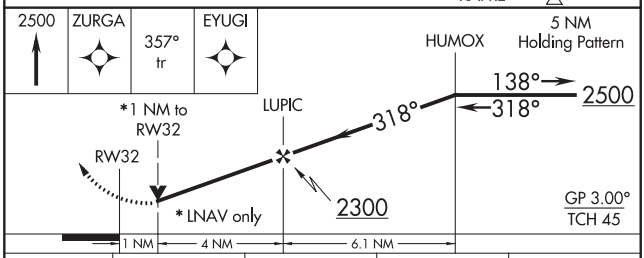
RNP APCH.

If local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all DAs/MDAs 100 feet. Baro-VNAV and VDP NA when using Indianapolis Intl altimeter setting. Baro-VNAV NA below -16°C (4°F). Rwy 32 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct ZURGA and on 357° track to EYUGI and hold.

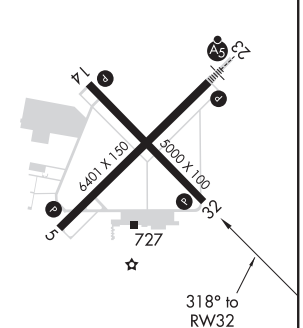
AWOS-3	INDIANAPOLIS APP CON	COLUMBUS TOWER ★	GND CON	CLNC DEL	UNICOM
119.75	134.85 317.8	118.6 (CTAF) L	121.6	134.85	122.95





CATEGORY	A	B	C	D
LPV DA	1016-1¼ 363 (400-1¼)			
LNAV/VNAV DA	1057-1½ 404 (500-1½)			
LNAV MDA	1080-1 427 (500-1)		1080-1¼ 427 (500-1¼)	

ELEV 656 D TDZE 653

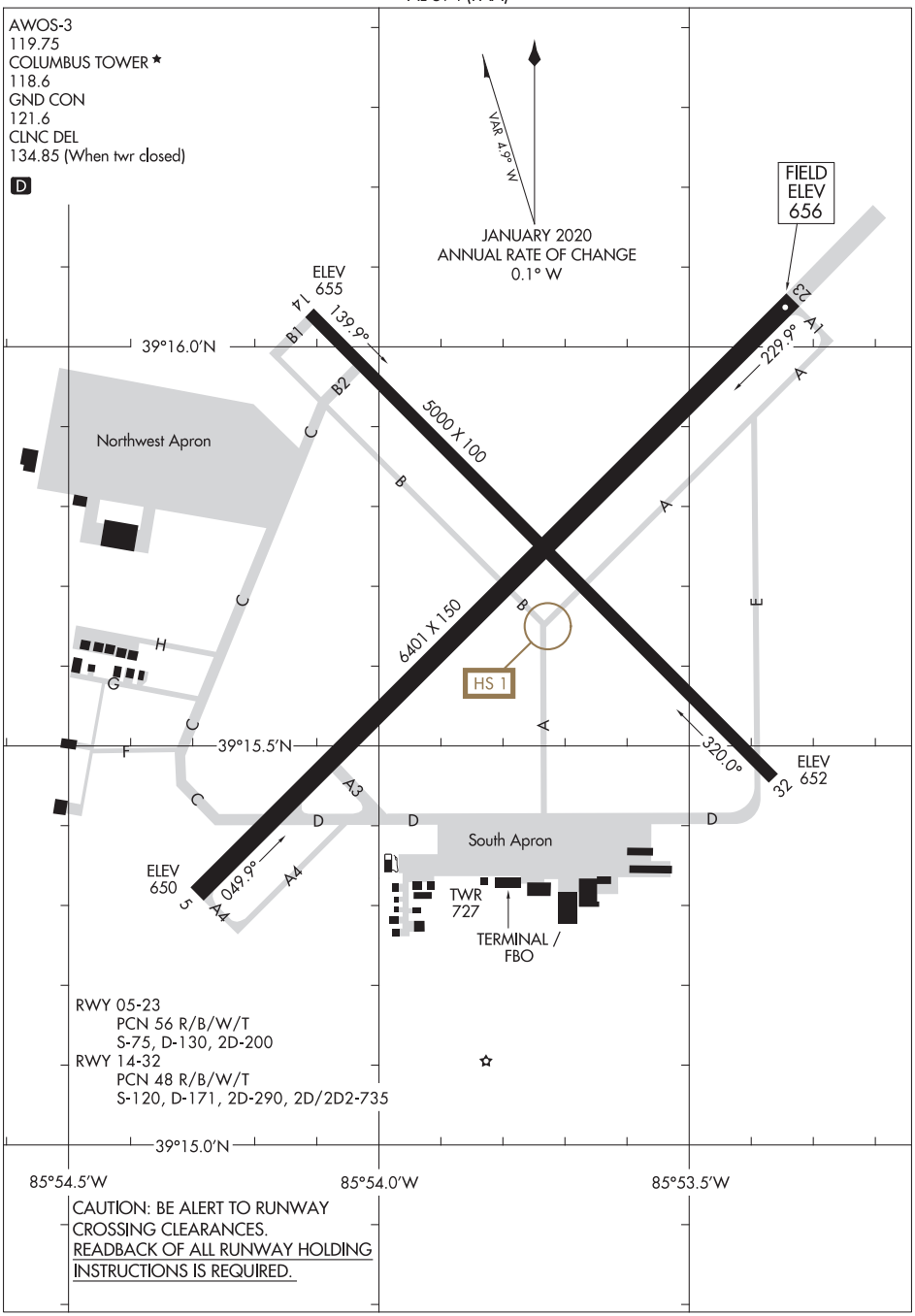


MIRL Rwy 14-32 L
HIRL Rwy 5-23 L
REIL Rwys 5, 14, and 32 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AL-594 (FAA)



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO

AL-5958 (FAA)

19339

ILS or LOC RWY 4
BOLTON FIELD (TZR)

LOC I-BUZ	APP CRS	Rwy ldg	5500
111.7	037°	TDZE	904
		Apt Elev	904

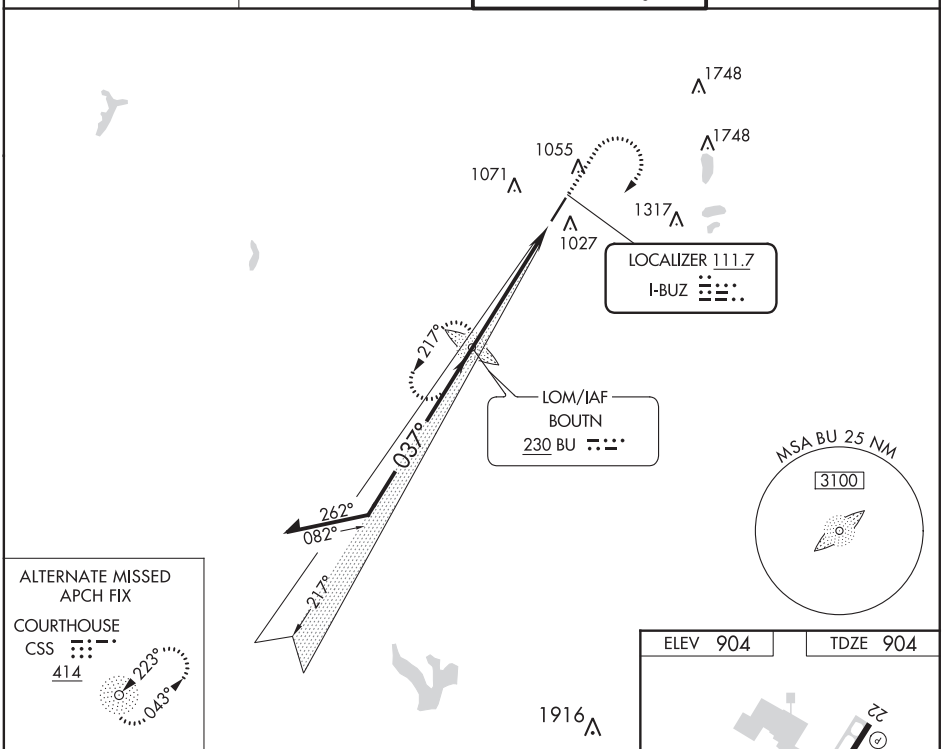
ADF required.
RADAR required for procedure entry.

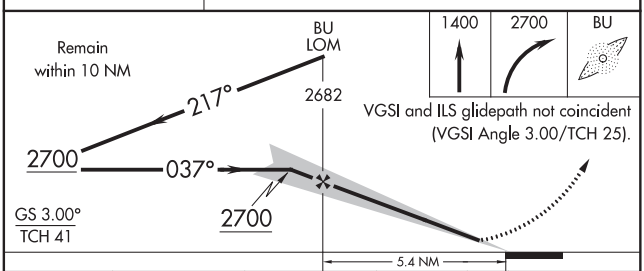
AutoPilot coupled approach NA below 1144.

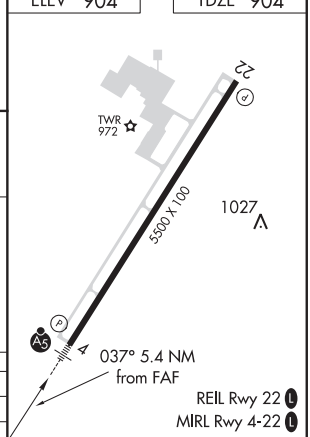
MALSR

MISSED APPROACH: Climb to 1400 then climbing right turn to 2700 direct BU LOM and hold.

AWOS-3	COLUMBUS APP CON	BOLTON TOWER ★	GND CON
135.925	134.0 279.6	128.1 (CTAF) L	121.8







CATEGORY	A	B	C	D
S-ILS 4	1104-½ 200 (200-½)			
S-LOC 4	1360-½ 456 (500-½)		1360-⅞ 456 (500-⅞)	1360-1 456 (500-1)
C CIRCLING	1360-1 456 (500-1)	1380-1 476 (500-1)	1380-1½ 476 (500-1½)	1500-2 596 (600-2)

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 90505 W04A	APP CRS 037°	Rwy ldg 5500 TDZE 904 Apt Elev 904

RNAV (GPS) RWY 4
BOLTON FIELD (TZR)

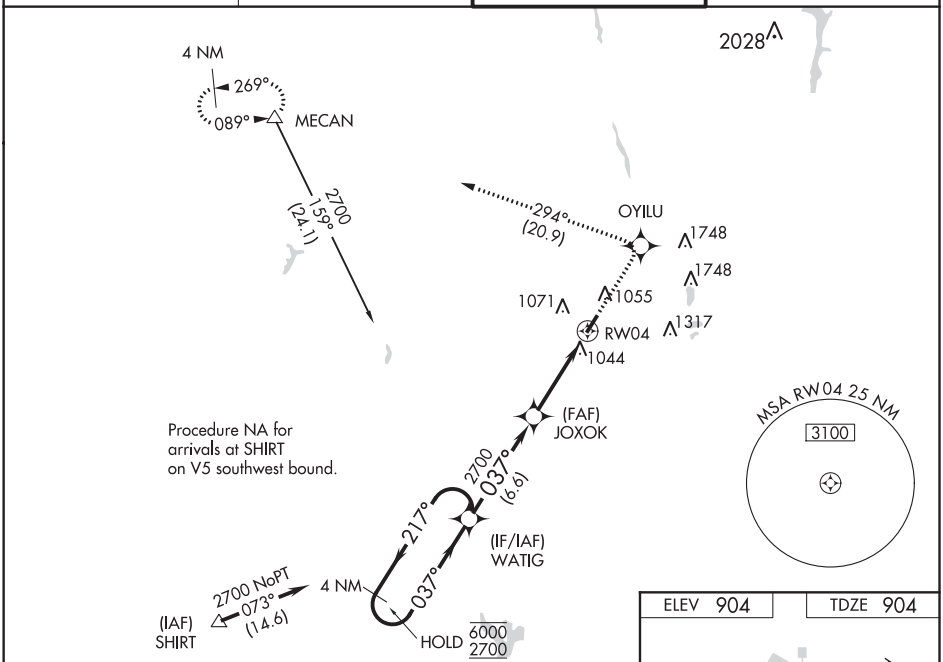
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to 1¼ SM and LNAV Cats C/D visibility to 1⅜ SM.

MALSR

MISSED APPROACH: Climb to 3000 direct OYILU and left turn on track 294° to MECAN and hold.

AWOS-3	COLUMBUS APP CON	BOLTON TOWER ★	GND CON
135.925	134.0 279.6	128.1 (CTAF) L	121.8

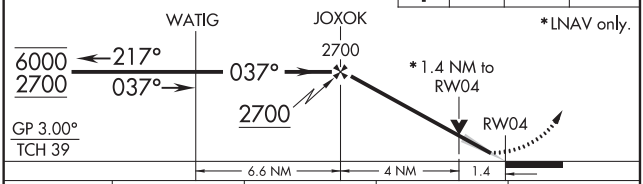


VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 25).

3000	OYILU	tr 294°	MECAN

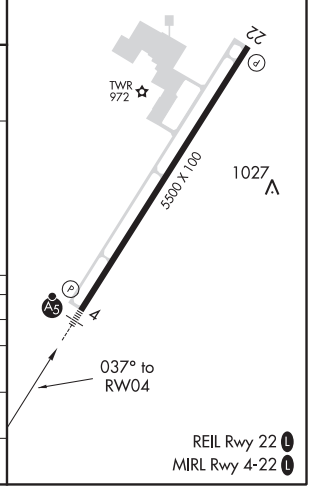
4 NM Holding Pattern

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	1163-½ 259 (300-½)			
LNAV/VNAV DA	1325-1 421 (500-1)			
LNAV MDA	1360-½ 456 (500-½)		1360-⅞ 456 (500-⅞)	1360-1 456 (500-1)
C CIRCLING	1360-1 456 (500-1)	1380-1 476 (500-1)	1380-1½ 476 (500-1½)	1500-2 596 (600-2)

ELEV 904 TDZE 904



REIL Rwy 22 L
MIRL Rwy 4-22 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO | AL-5958 (FAA) | 19143

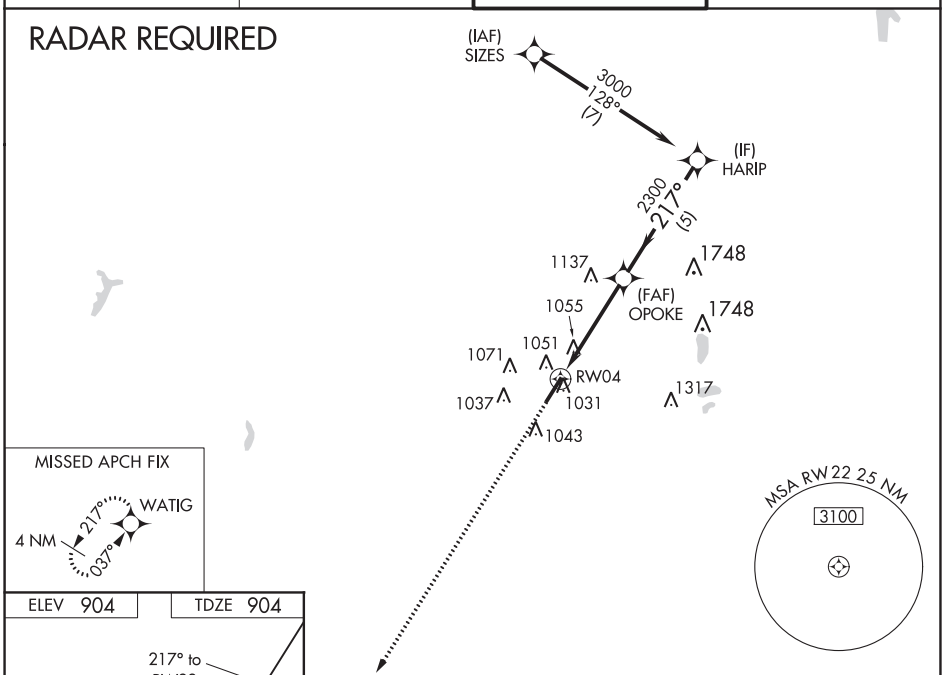
RNAV (GPS) RWY 22
BOLTON FIELD (TZR)

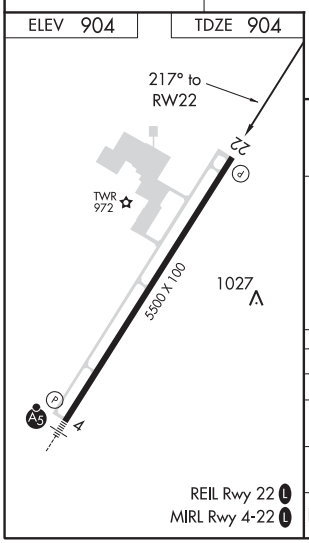
WAAS CH 65641 W22A	APP CRS 217°	Rwy ldg 5500 TDZE 904 Apt Elev 904

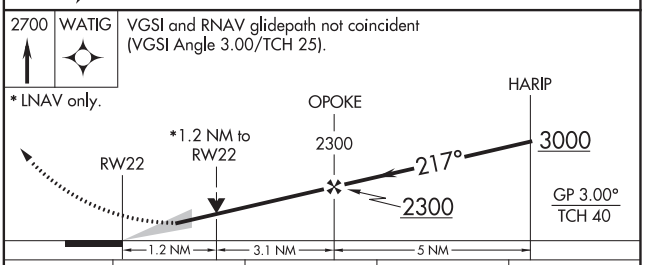
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using John Glenn Columbus Intl altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received use John Glenn Columbus Intl setting and increase LPV DA to 1196 feet and LNAV/VNAV DA to 1382 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility ⅛ SM, and LNAV Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2700 direct WATIG and hold.

AWOS-3	COLUMBUS APP CON	BOLTON TOWER★	GND CON
135.925	134.0 279.6	128.1 (CTAF) L	121.8







CATEGORY	A	B	C	D
LPV DA	1154-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1339-1½ 435 (500-1½)			
LNAV MDA	1320-1 416 (500-1)		1320-1⅛ 416 (500-1⅛)	
C CIRCLING	1360-1 456 (500-1)	1380-1 476 (500-1)	1380-1½ 476 (500-1½)	1500-2 596 (600-2)

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LOM BU	APP CRS	Rwy ldg	5500
230	038°	TDZE	904
		Apt Elev	904

NDB RWY 4
BOLTON FIELD (TZR)

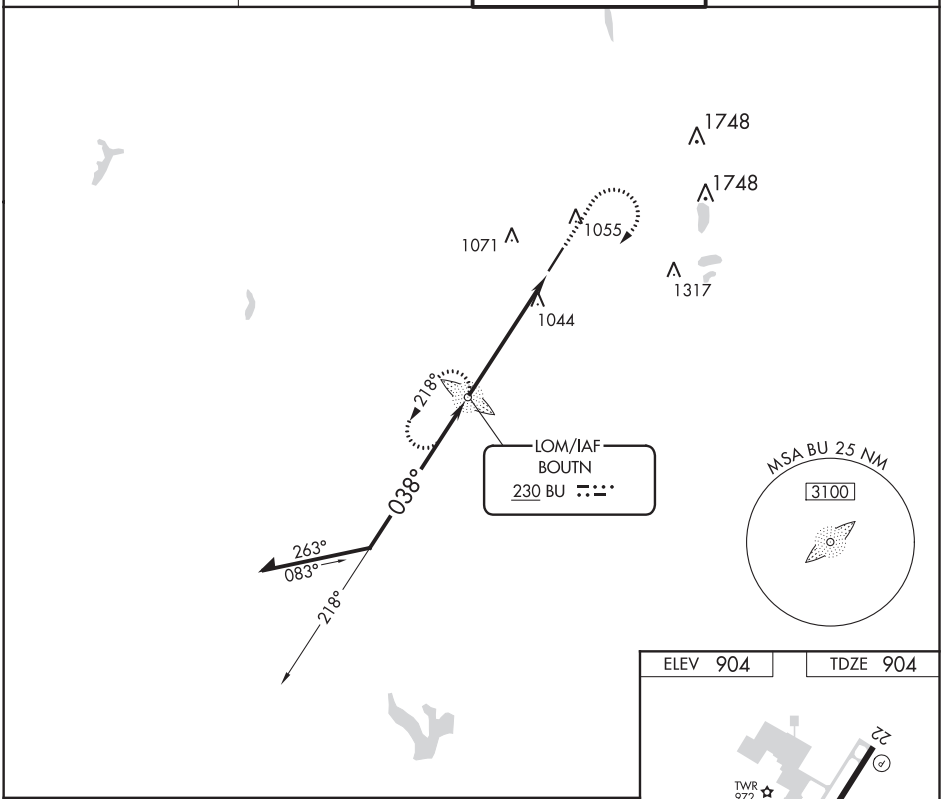
RADAR required for procedure entry.

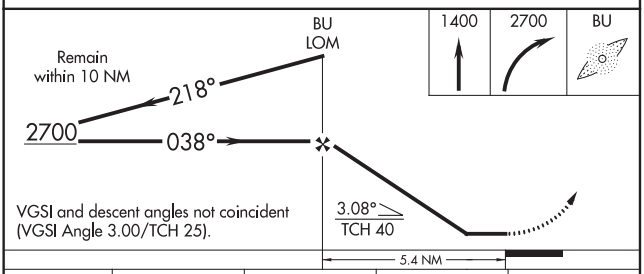
For inop ALS, increase S-4 Cats A/B visibility to 1 SM and S-4 Cats C/D visibility to 1⅜ SM.

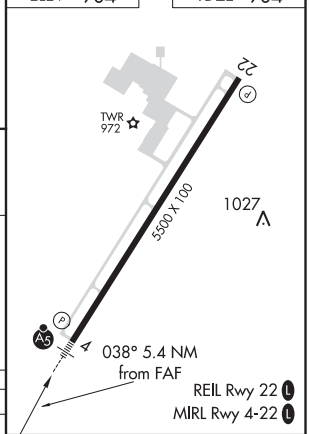
MALSR

MISSED APPROACH: Climb to 1400 then climbing right turn to 2700 direct BU LOM and hold.

AWOS-3	COLUMBUS APP CON	BOLTON TOWER ★	GND CON
135.925	134.0 279.6	128.1 (CTAF) L	121.8







CATEGORY	A	B	C	D
S-4	1400-¾	496 (500-¾)	1400-1 496 (500-1)	1400-1¼ 496 (500-1¼)
C CIRCLING	1400-1	496 (500-1)	1400-1½ 496 (500-1½)	1500-2 596 (600-2)

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

EC-2, 25 FEB 2021 to 22 APR 2021

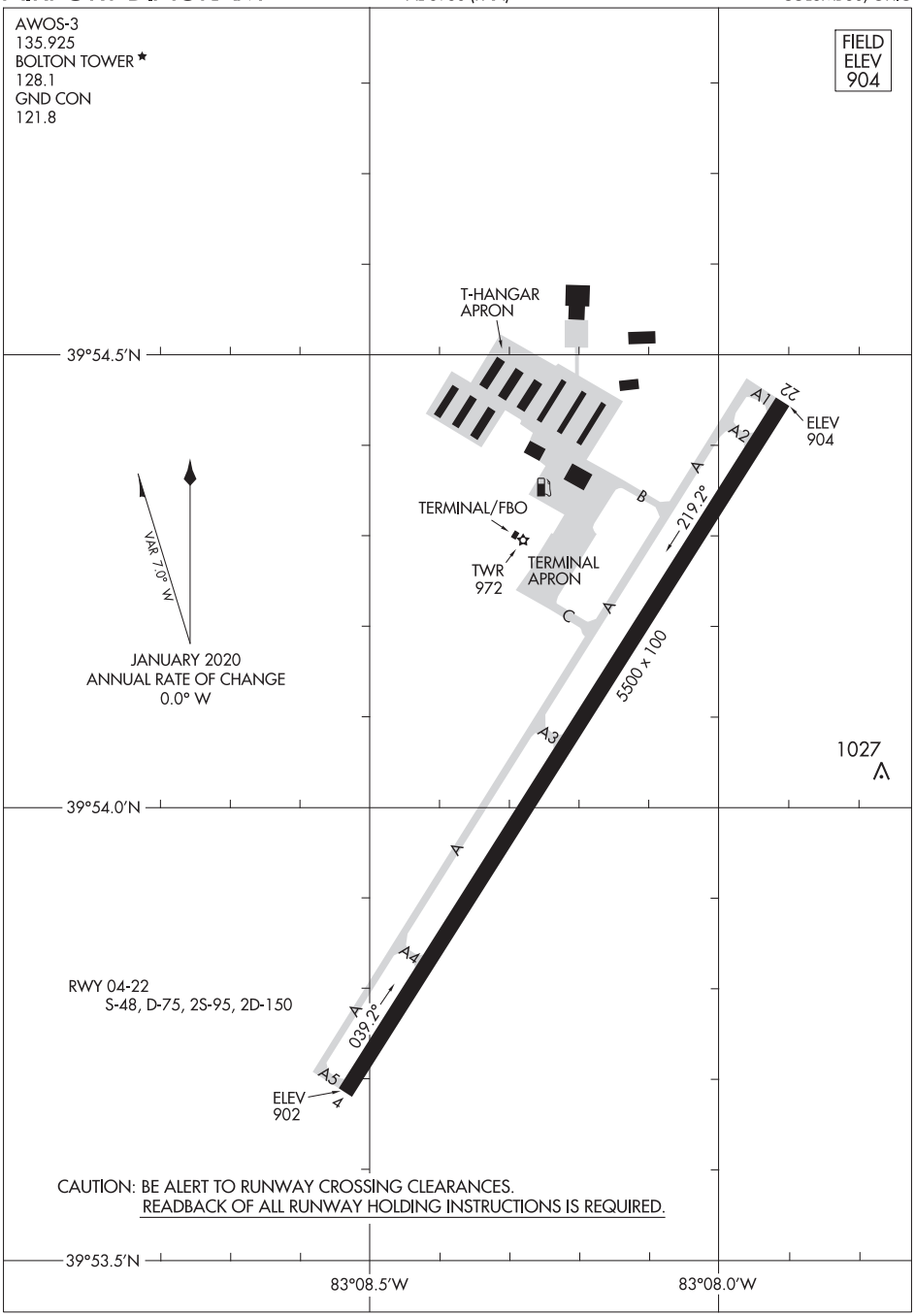
EC-2, 25 FEB 2021 to 22 APR 2021

20310

AIRPORT DIAGRAM

AL-5958 (FAA)

BOLTON FIELD (TZR)
COLUMBUS, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20310
COLUMBUS, OHIO
BOLTON FIELD (TZR)

LOC/DME I-CBP	APP CRS	Rwy ldg 8000
109.1	101°	TDZE 815
Chan 28		Apt Elev 815

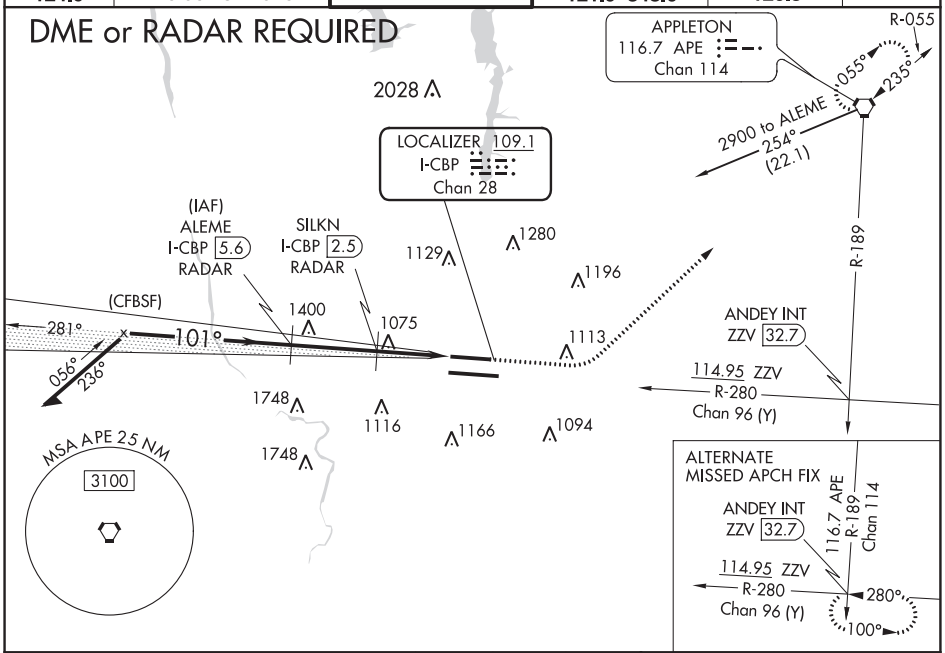
ILS or LOC RWY 10L
JOHN GLENN COLUMBUS INTL (CMH)

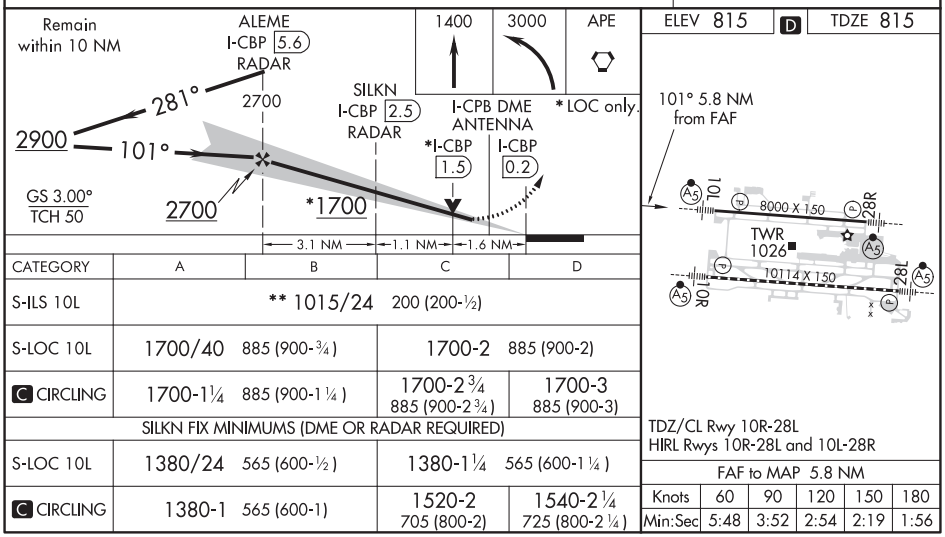
T A ** RVR 1800 authorized with the use of FD or AP or HUD to DA. For inop ALS, increase SILKN fix minimums S-LOC 10L Cat C/D visibility to 1⅝ SM. Simultaneous approach authorized.

MALSR A5

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct APE VORTAC and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	





CATEGORY	A	B	C	D
S-ILS 10L	** 1015/24 200 (200-½)			
S-LOC 10L	1700/40 885 (900-¾)		1700-2 885 (900-2)	
C CIRCLING	1700-1¼ 885 (900-1¼)		1700-2¾ 885 (900-2¾)	1700-3 885 (900-3)
SILKN FIX MINIMUMS (DME OR RADAR REQUIRED)				
S-LOC 10L	1380/24 565 (600-½)		1380-1¼ 565 (600-1¼)	
C CIRCLING	1380-1 565 (600-1)		1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO — AL-94 (FAA) — 20086

LOC/DME I-AQI	APP CRS	Rwy ldg 10113
111.75	101°	TDZE 809
Chan 54 (Y)		Apt Elev 815

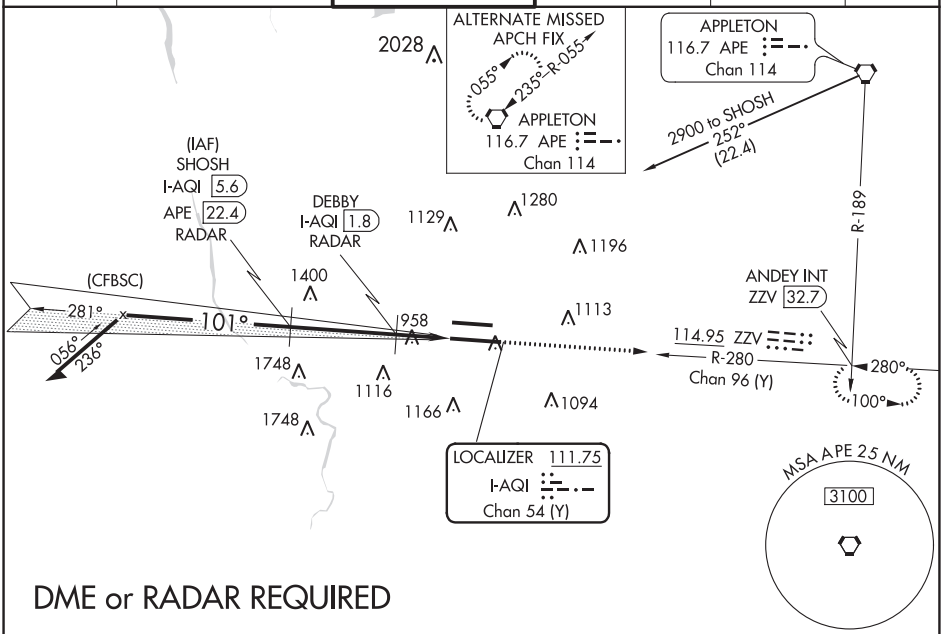
ILS or LOC RWY 10R
JOHN GLENN COLUMBUS INTL (CMH)

Simultaneous approach authorized. DME or radar required.
For inop ALS, increase S-LOC 10R Cats C/D visibility to 1⅞ SM, increase DEBBY fix minimums S-LOC 10R Cats C/D visibility to 1⅛ SM.

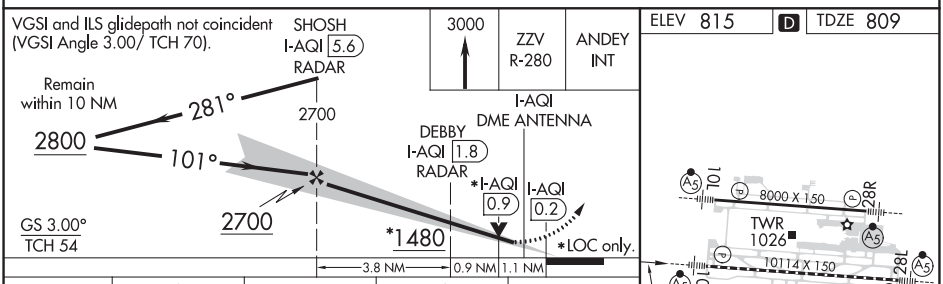
MALSR

MISSED APPROACH: Climb to 3000 on ZZV VOR/DME R-280 direct ANDEY INT/ZZV 32.7 DME and hold.

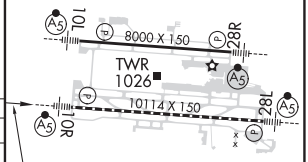
D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



DME or RADAR REQUIRED



ELEV 815 | D | TDZE 809



101° 5.8 NM from FAF

CATEGORY	A	B	C	D
S-ILS 10R	1009/18		200 (200-½)	
S-LOC 10R	1480/24	671 (700-½)	1480-1½	671 (700-1½)
C CIRCLING	1480-1	665 (700-1)	1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)
DEBBY FIX MINIMUMS (DME OR RADAR REQUIRED)				
S-LOC 10R	1220/24	411 (500-½)	1220/40	411 (500-¾)
C CIRCLING	1340-1	525 (600-1)	1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

COLUMBUS, OHIO
Amdt 9C 22JUN17

40°00′N-82°54′W

JOHN GLENN COLUMBUS INTL (CMH)
ILS or LOC RWY 10R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-CMH	APP CRS	Rwy ldg	10113
111.75	281°	TDZE	815
Chan 54 (Y)		Apt Elev	815

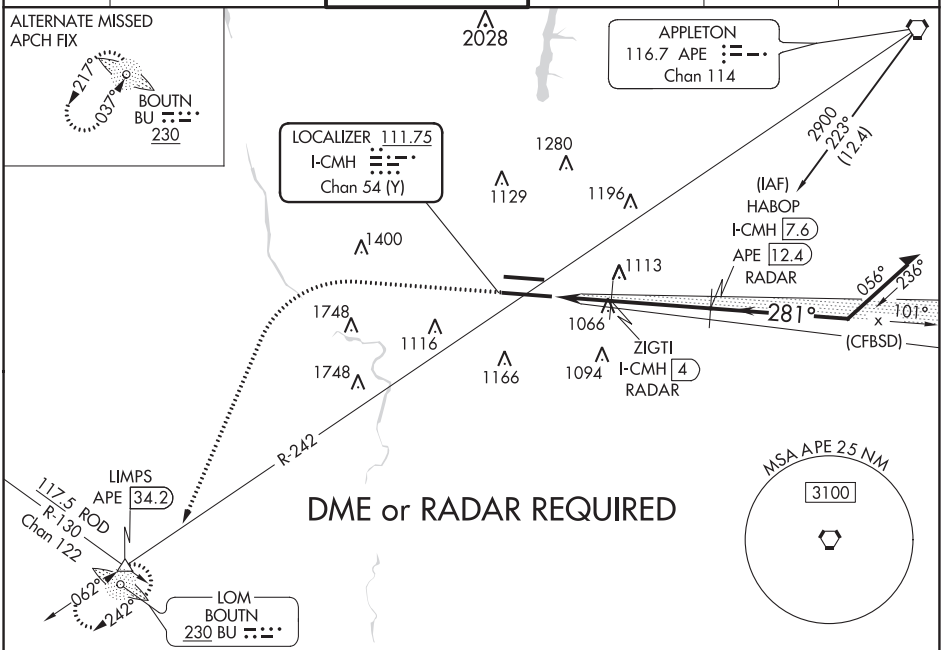
ILS or LOC RWY 28L
JOHN GLENN COLUMBUS INTL (CMH)

Simultaneous approach authorized. For inoperative ALS, increase S-LOC 28L Cats C and D visibility to 2 SM and increase ZIGTI fix minimums S-LOC 28L Cats C and D visibility to 1⅜ SM.

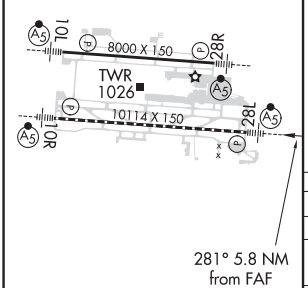
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 on heading 210° and on APE VORTAC R-242 to LIMPS INT/ APE 34.2 DME and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	

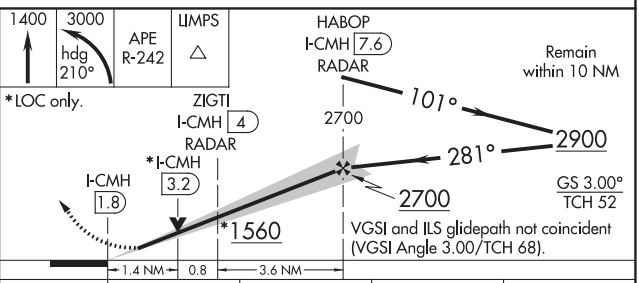


ELEV 815 D TDZE 815



TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56



CATEGORY	A	B	C	D
S-ILS 28L	1015/18 200 (200-½)			
S-LOC 28L	1560/24 745 (800-½)		1560/40 745 (800-¾)	1560-1¾ 745 (800-1¾)
C CIRCLING	1560-1 745 (800-1)	1560-1¼ 745 (800-1¼)	1560-2¼ 745 (800-2¼)	1560-2½ 745 (800-2½)
ZIGTI FIX MINIMUMS (DME OR RADAR REQUIRED)				
S-LOC 28L	1320/24 505 (600-½)		1320/55 505 (600-1)	
C CIRCLING	1340-1 525 (600-1)		1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO — AL-94 (FAA) — 20086

ILS or LOC RWY 28R
JOHN GLENN COLUMBUS INTL (CMH)

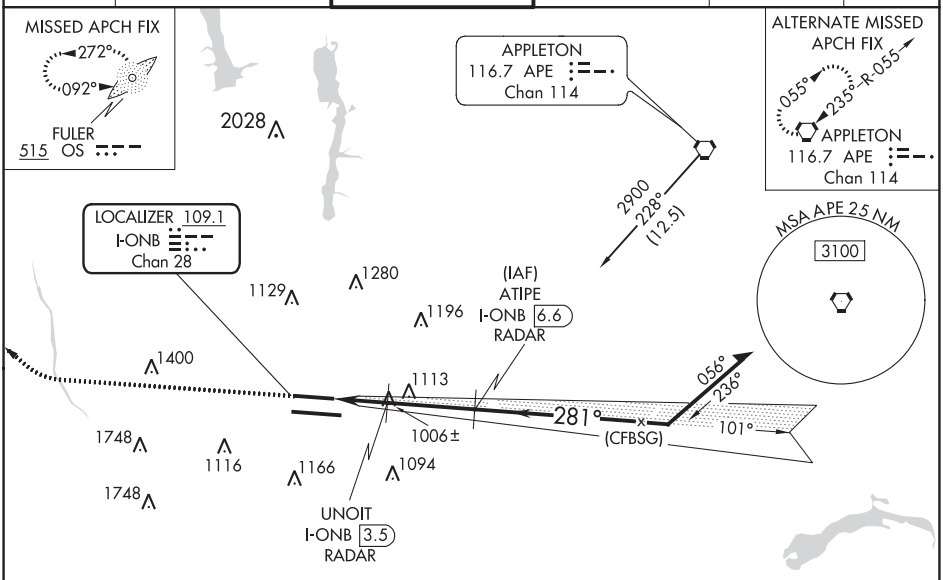
LOC/DME I-ONB	APP CRS	Rwy ldg / TDZE / Apt Elev
109.1 Chan 28	281°	8000 / 813 / 815

Autopilot coupled approach NA below 2023.
ADF required. Simultaneous approach authorized.

MALSR

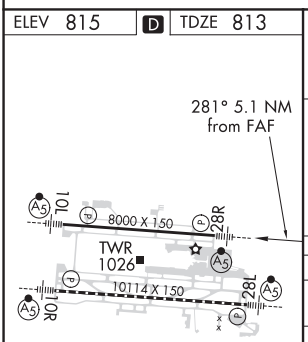
MISSED APPROACH: Climb to 1400 then climbing right turn to 3000 direct FULER LOM and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



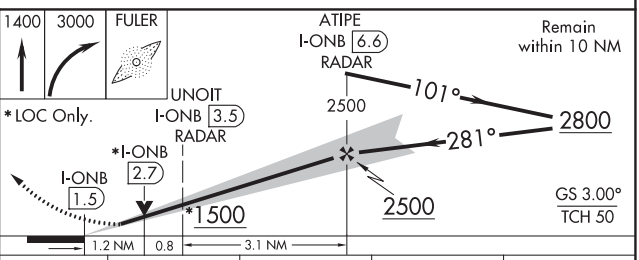
DME or RADAR REQUIRED

ELEV 815 | D | TDZE 813



TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42



CATEGORY	A	B	C	D
S-ILS 28R	1014/24 201 (200-½)			
S-LOC 28R	1500/24 687 (700-½)		1500-1½ 687 (700-1½)	
C CIRCLING	1500-1 685 (700-1)		1520-2 705 (800-2)	1520-2¼ 705 (800-2¼)
UNOIT FIX MINIMUMS (DME OR RADAR REQUIRED)				
S-LOC 28R	1260/24 447 (500-½)		1260/45 447 (500-⅞)	
C CIRCLING	1340-1 525 (600-1)		1520-2 705 (800-2)	1520-2¼ 705 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-AQI	APP CRS	Rwy ldg 10113
111.75	101°	TDZE 809
Chan 54 (Y)		Apt Elev 815

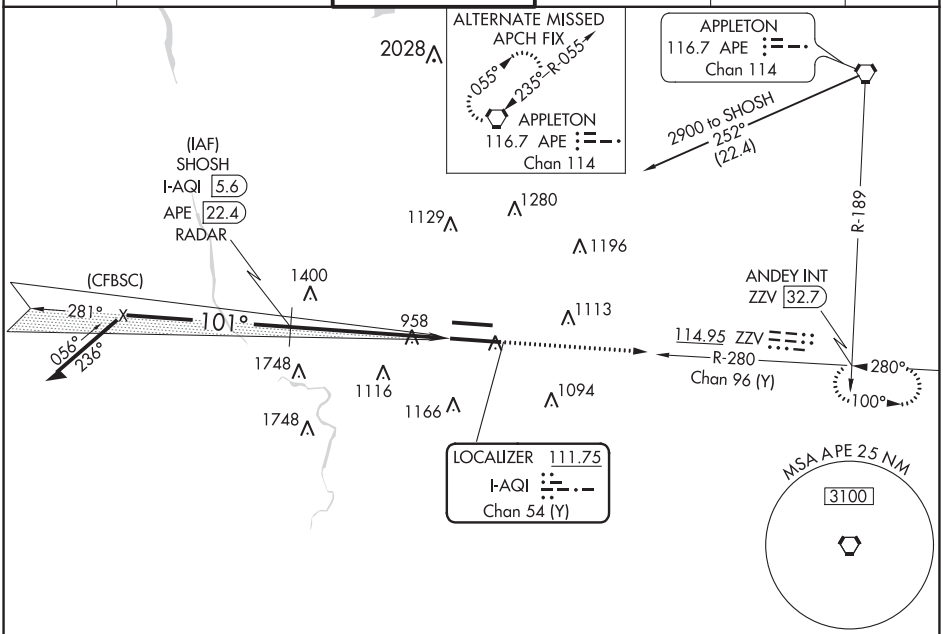
ILS RWY 10R (SA CAT I & II)
JOHN GLENN COLUMBUS INTL (CMH)

Simultaneous approach authorized. DME or radar required. SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. SA CAT II: Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of AUTOLAND or HUD to touchdown.

MALSR

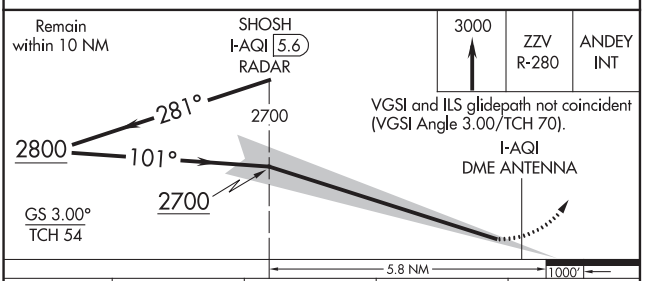
MISSED APPROACH: Climb to 3000 on ZZV VOR/DME R-280 direct ANDEY INT/ZZV 32.7 DME and hold.

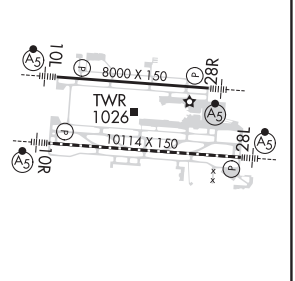
D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815 D TDZE 809

DME or RADAR REQUIRED





CATEGORY	A	B	C	D
S-ILS 10R	SA CAT I	RA 146/14	150 DA 959	
S-ILS 10R	SA CAT II	RA 99/12	100 DA 909	

SA CATEGORY I & II ILS- SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO | AL-94 (FAA) | 20086

LOC/DME I-CMH	APP CRS	Rwy ldg	10113
111.75	281°	TDZE	815
Chan 54 (Y)		Apt Elev	815

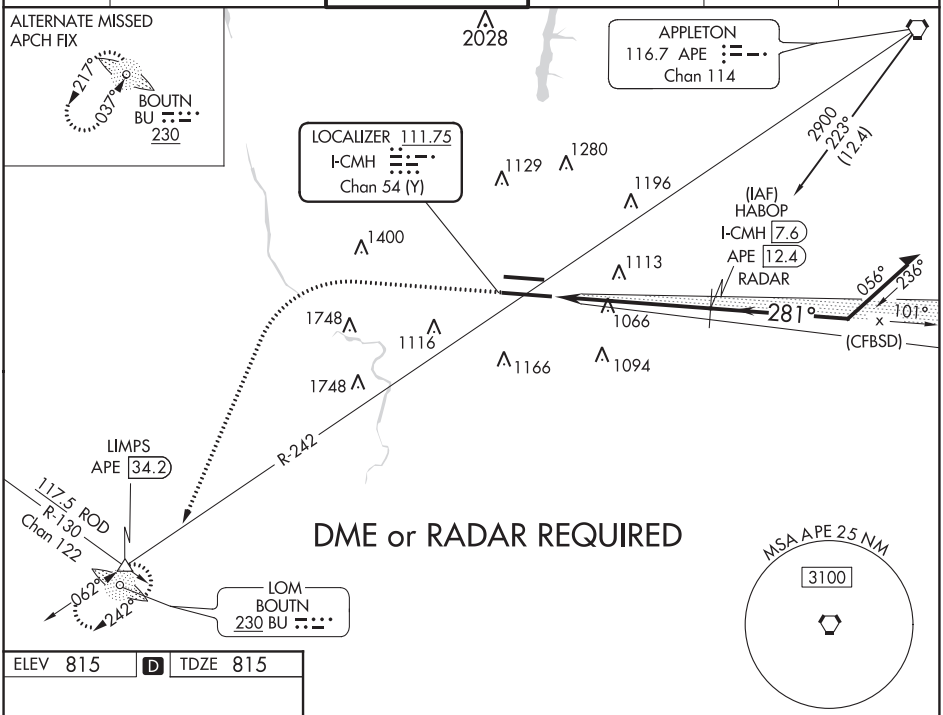
ILS RWY 28L (SA CAT I & II)
JOHN GLENN COLUMBUS INTL (CMH)

Simultaneous approach authorized.
SA CAT I: Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. SA CAT II: Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

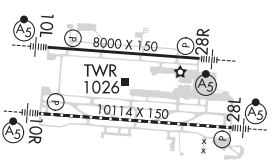
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 on heading 210° and on APE VORTAC R-242 to LIMPS INT/ APE 34.2 DME and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	

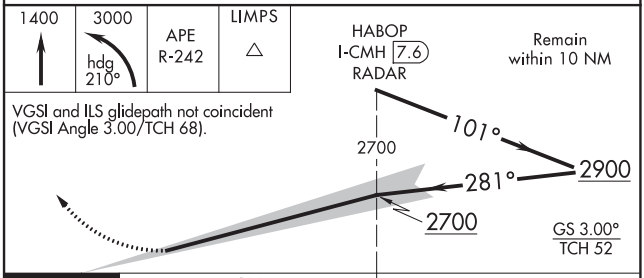


ELEV 815 | D | TDZE 815



1400	3000	APE R-242	LIMPS
	hdg 210°		

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 68).



CATEGORY	A	B	C	D
S-ILS 28L	SA CAT I RA 157/14 150 DA 965			
S-ILS 28L	SA CAT II RA 100/12 100 DA 915			

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

COLUMBUS, OHIO
Amdt 30B 07DEC17

40°00'N-82°54'W

JOHN GLENN COLUMBUS INTL (CMH)
ILS RWY 28L (SA CAT I & II)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	8000
101°	TDZE	815
	Apt Elev	815

RNAV (RNP) Z RWY 10L
JOHN GLENN COLUMBUS INTL (CMH)

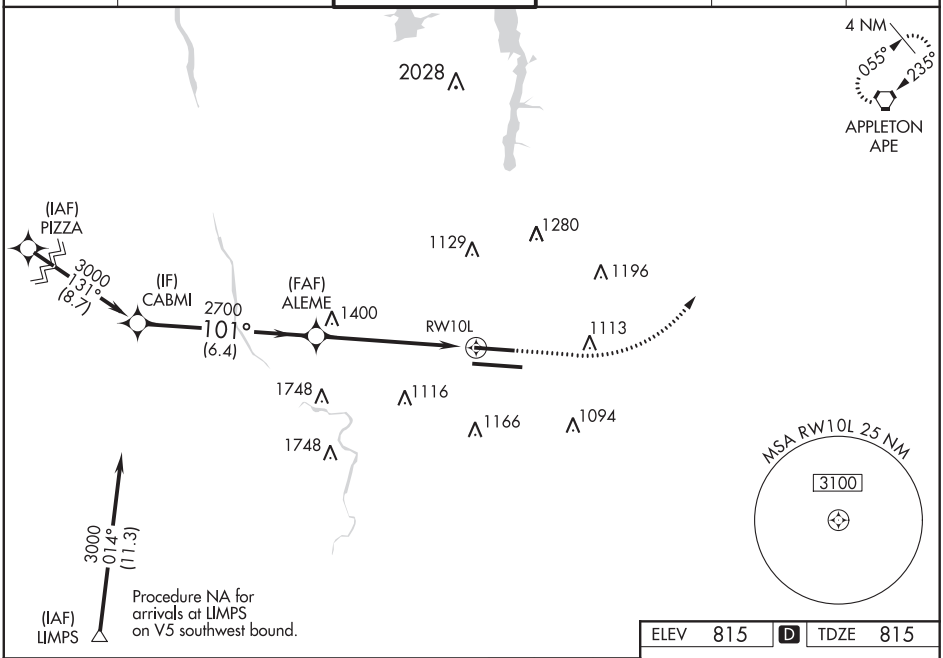
RNP AR APCH.

Simultaneous approach authorized. For uncompensated Baro-VNAV systems, procedure NA below -18°C or above 54°C. For inoperative ALS, increase RNP 0.13 all Cats visibility to RVR 5500, increase RNP 0.26 all Cats visibility to 1¼ SM and increase RNP 0.30 all Cats visibility to 1½ SM.

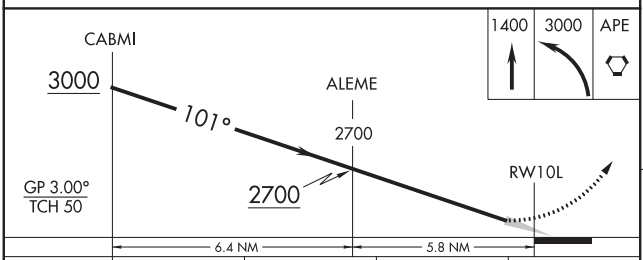
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct APE VORTAC and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	

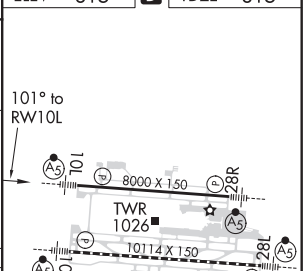


ELEV 815 | D | TDZE 815



CATEGORY	A	B	C	D
RNP 0.13 DA	1142/40 327 (400-¾)			
RNP 0.26 DA	1193/40 378 (400-¾)			
RNP 0.30 DA	1246/50 431 (500-1)			

AUTHORIZATION REQUIRED



TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10113
101°	TDZE	809
	Apt Elev	815

RNAV (RNP) Z RWY 10R
JOHN GLENN COLUMBUS INTL (CMH)

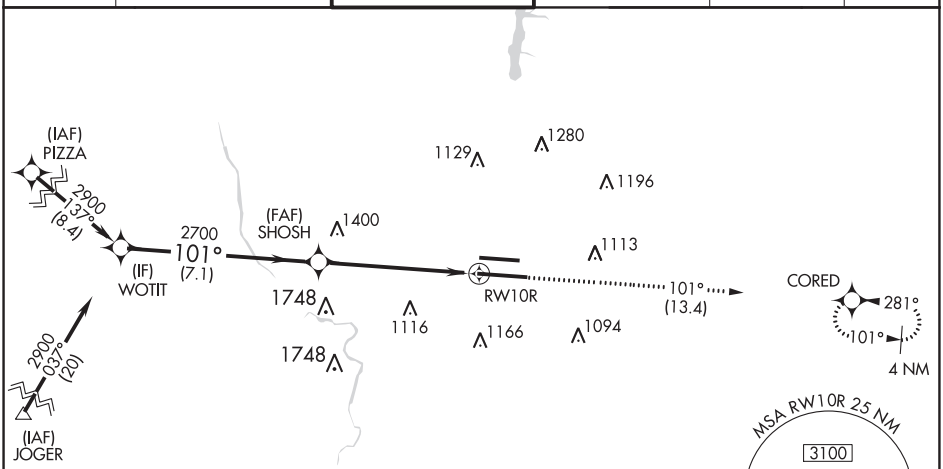
RNP AR APCH.

Simultaneous approach authorized. For uncompensated Baro-VNAV systems, procedure NA below -18°C or above 54°C. For inoperative ALS, increase RNP 0.17 all Cats visibility to RVR 5900, increase RNP 0.30 all Cats visibility to 1⅝ SM.

MALSR

MISSED APPROACH: Climb to 3000 on track 101° to CORED and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	

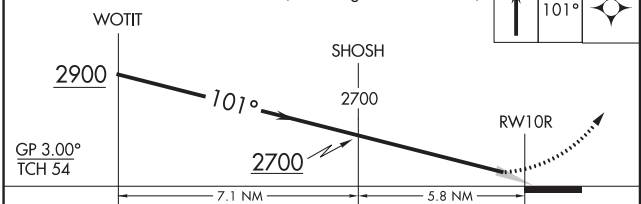


Procedure NA for arrivals at JOGER on V5 southwest bound.

ELEV	815	D	TDZE	809

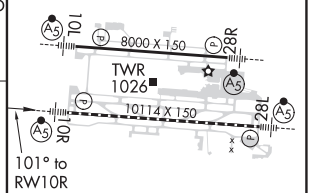
VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/ TCH 70).

3000	tr 101°	CORED



CATEGORY	A	B	C	D
RNP 0.17 DA	1171/35	362 (400-⅝)		
RNP 0.30 DA	1288/55	479 (500-1)		

AUTHORIZATION REQUIRED



TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10113
281°	TDZE	815
	Apt Elev	815

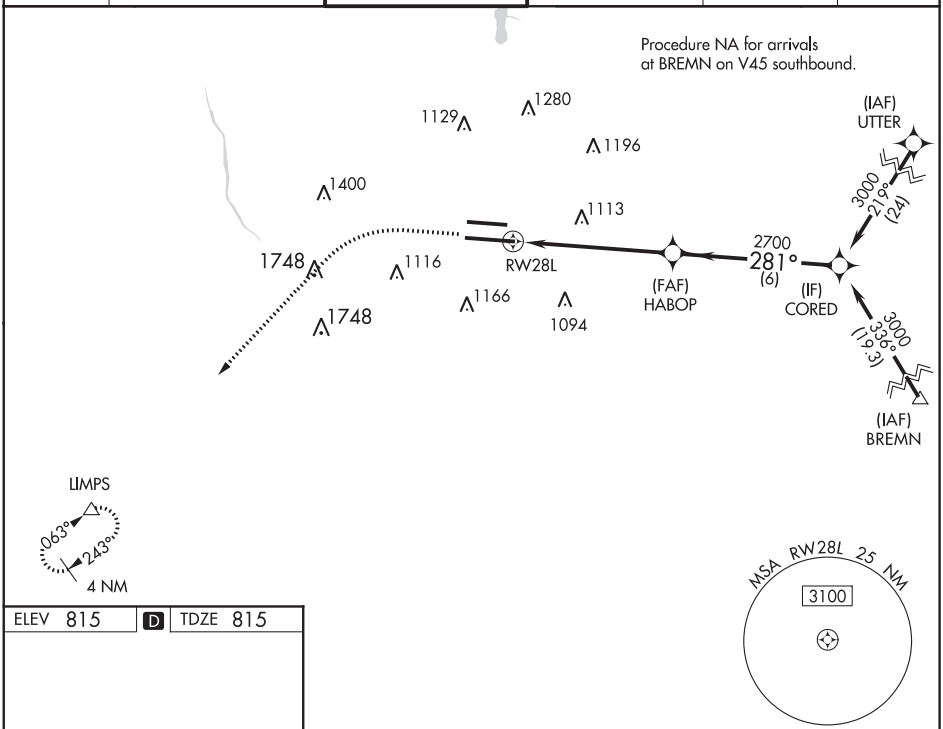
RNAV (RNP) Z RWY 28L
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). GPS required. For inoperative ALS, increase RNP 0.17 all Cats visibility to RVR 4600, increase RNP 0.30 all Cats visibility to 1⅝ SM. Simultaneous approach authorized. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

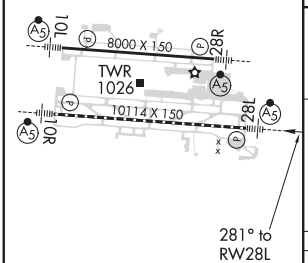
MALSR

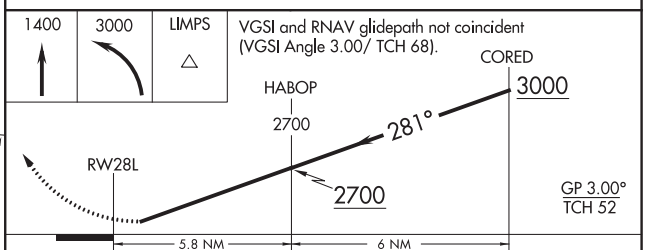
MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct LIMPS and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815 | D | TDZE 815





CATEGORY	A	B	C	D
RNP 0.17 DA	1105/40 290 (300- ¾)			
RNP 0.30 DA	1295/60 480 (500-1¼)			

AUTHORIZATION REQUIRED

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	8000
281°	TDZE	813
	Apt Elev	815

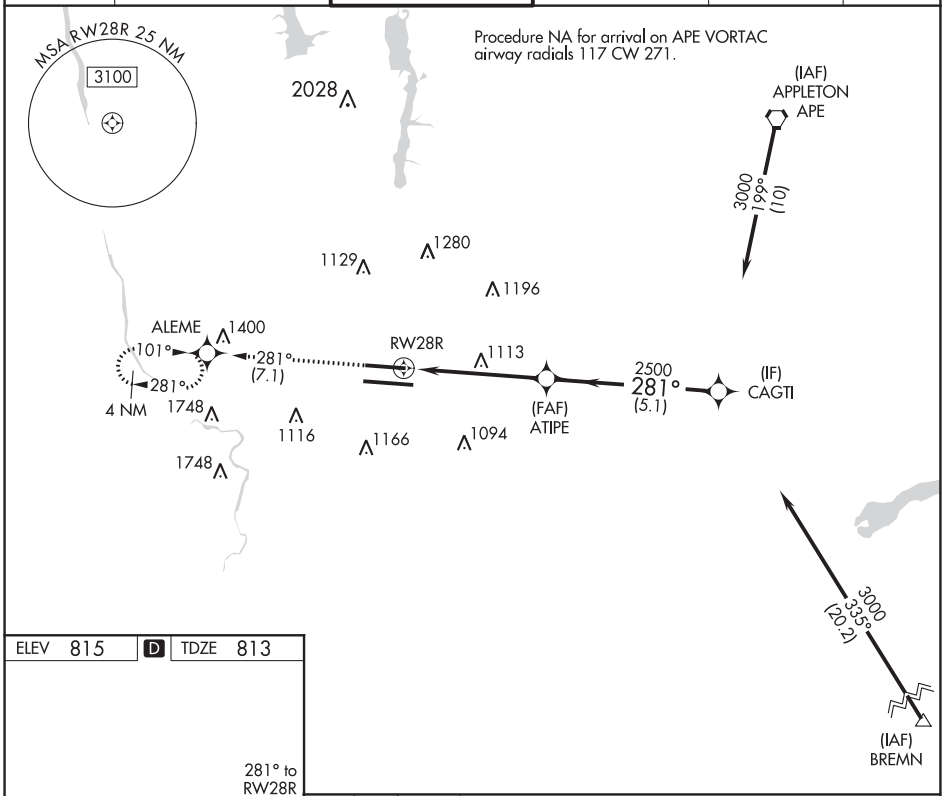
RNAV (RNP) Z RWY 28R
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). GPS required. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inoperative ALS, increase RNP 0.16 all Cats visibility to RVR 6000 and RNP 0.30 all Cats visibility to 1⅜ SM. Simultaneous approach authorized.

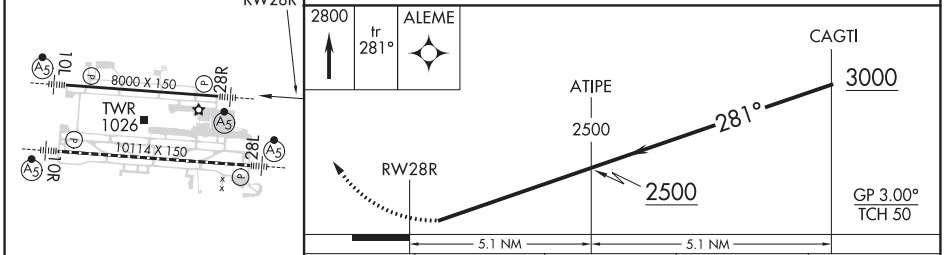
MALSR

MISSED APPROACH: Climb to 2800 on track 281° to ALEME and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815	D	TDZE 813



CATEGORY	A	B	C	D
RNP 0.16 DA	1167/50 354 (400-1)			
RNP 0.30 DA	1224/50 411 (500-1)			

AUTHORIZATION REQUIRED

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 40299 W10B	APP CRS 101°	Rwy ldg 8000 TDZE 815 Apt Elev 815

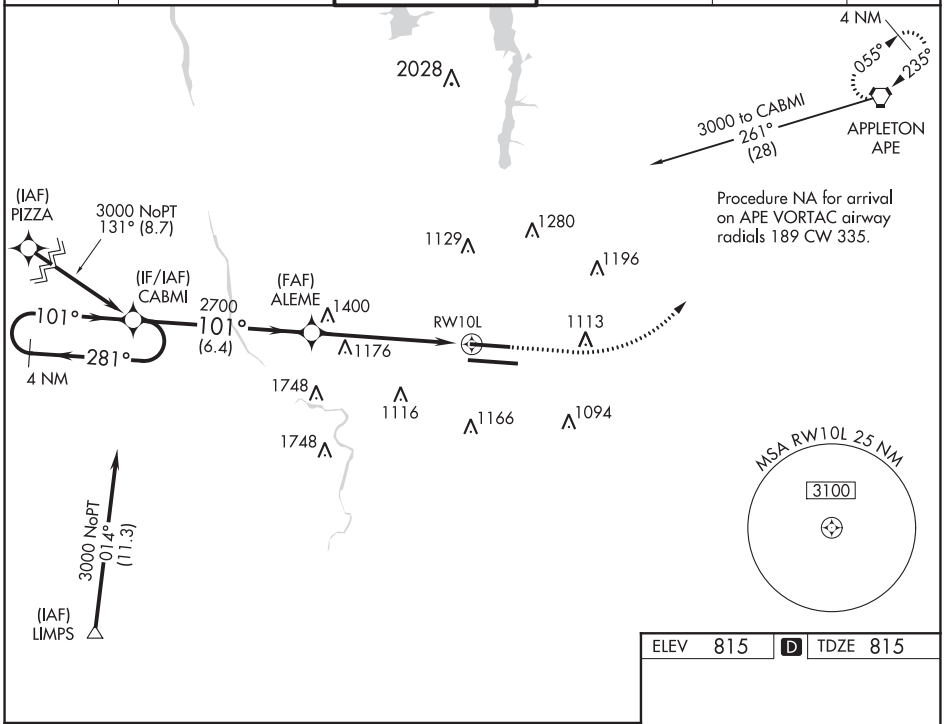
RNAV (GPS) Y RWY 10L
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

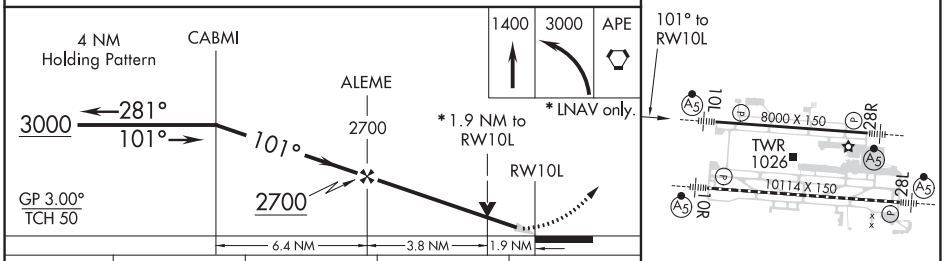
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct APE VORTAC and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815	D	TDZE 815



CATEGORY	A	B	C	D
LPV DA**	1015/24 200 (200-½)			
LNAV/VNAV DA	1199/40 384 (400-¾)			
LNAV MDA	1480/24 665 (700-½)		1480-1½ 665 (700-1½)	
C CIRCLING	1480-1 665 (700-1)		1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO — AL-94 (FAA) — 20086

WAAS CH 99603 W10A	APP CRS 101°	Rwy ldg 10113 TDZE 809 Apt Elev 815

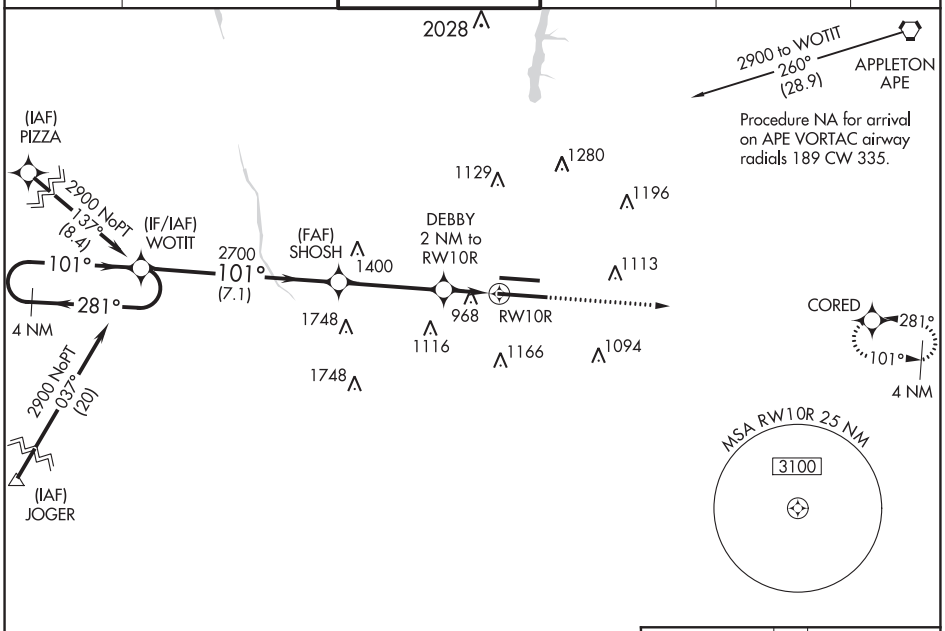
RNAV (GPS) Y RWY 10R
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized.

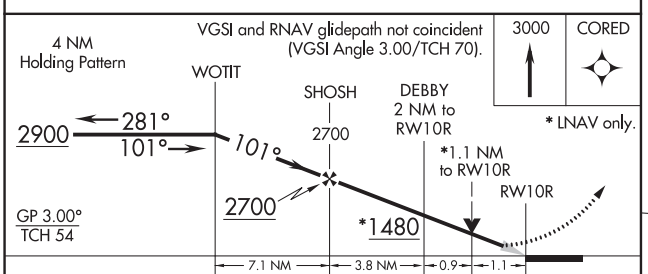
MALSR

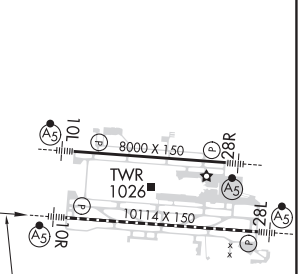
MISSED APPROACH: Climb to 3000 direct CORED and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815 | D | TDZE 809





CATEGORY	A	B	C	D
LPV DA	1009/18 200 (200-½)			
LNAV/VNAV DA	1273/55 464 (500-1)			
LNAV MDA	1220/24 411 (500-½)		1220/40 411 (500-¾)	
C CIRCLING	1340-1 525 (600-1)		1520-2 705 (800-2)	1540-2¼ 725 (800-2¼)

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 48999 W28A	APP CRS 281°	Rwy ldg 10113 TDZE 815 Apt Elev 815

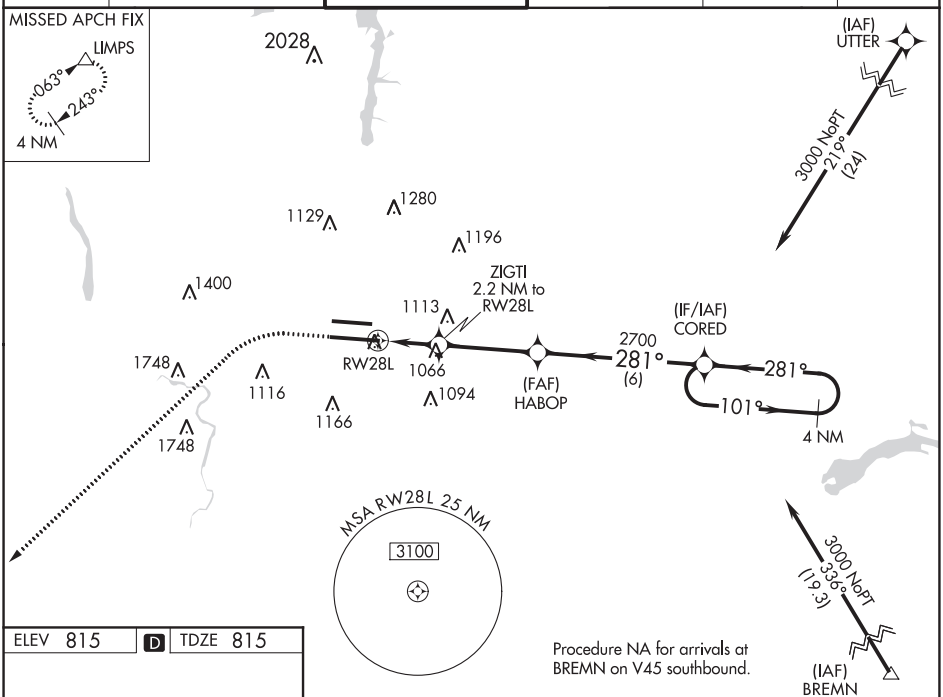
RNAV (GPS) Y RWY 28L
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). Simultaneous approach authorized. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

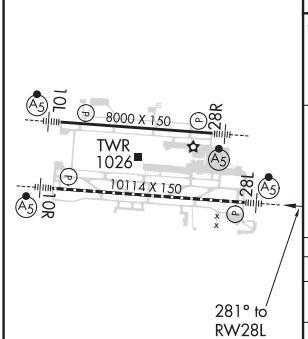
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct LIMPS and hold.

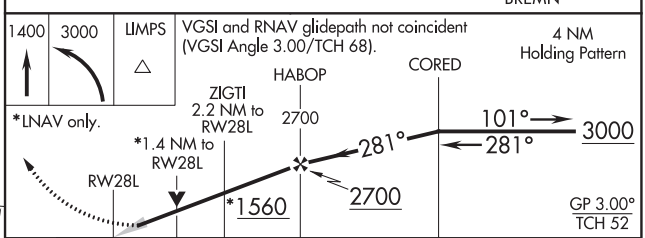
D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



ELEV 815 | D | TDZE 815



TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R



CATEGORY	A	B	C	D
LPV DA	1015/18 200 (200-½)			
LNAV/VNAV DA	1261/55 446 (500-1)			
LNAV MDA	1320/24 505 (600-½)		1320/55 505 (600-1)	
C CIRCLING	1340-1 525 (600-1)		1520-2 705 (800-2)	1540-2¾ 725 (800-2¾)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO AL-94 (FAA) 20086

WAAS CH 86619 W28B	APP CRS 281°	Rwy ldg 8000 TDZE 813 Apt Elev 815

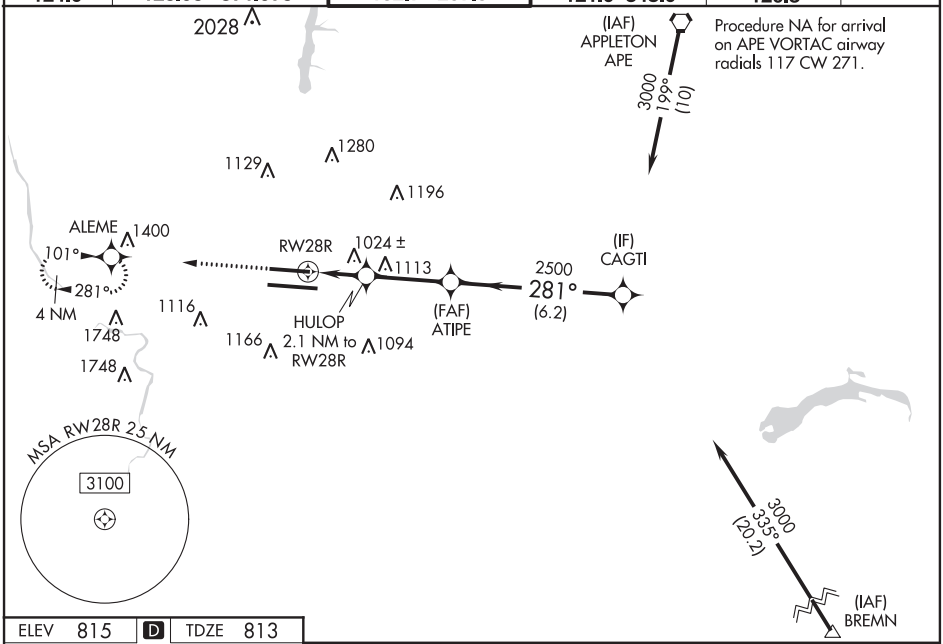
RNAV (GPS) Y RWY 28R
JOHN GLENN COLUMBUS INTL (CMH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). Simultaneous approach authorized. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inoperative ALS, increase LNAV/VNAV all Cats visibility to RVR 4500; increase LNAV Cat C/D visibility to 1⅜ SM.

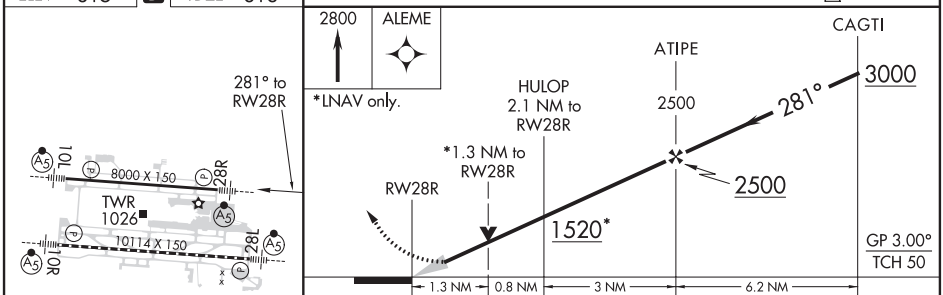
MALSR

MISSED APPROACH: Climb to 2800 direct ALEME and hold.

D-ATIS	COLUMBUS APP CON	COLUMBUS TOWER	GND CON	CLNC DEL	CPDLC
124.6	125.95 371.975	132.7 257.8	121.9 348.6	126.3	



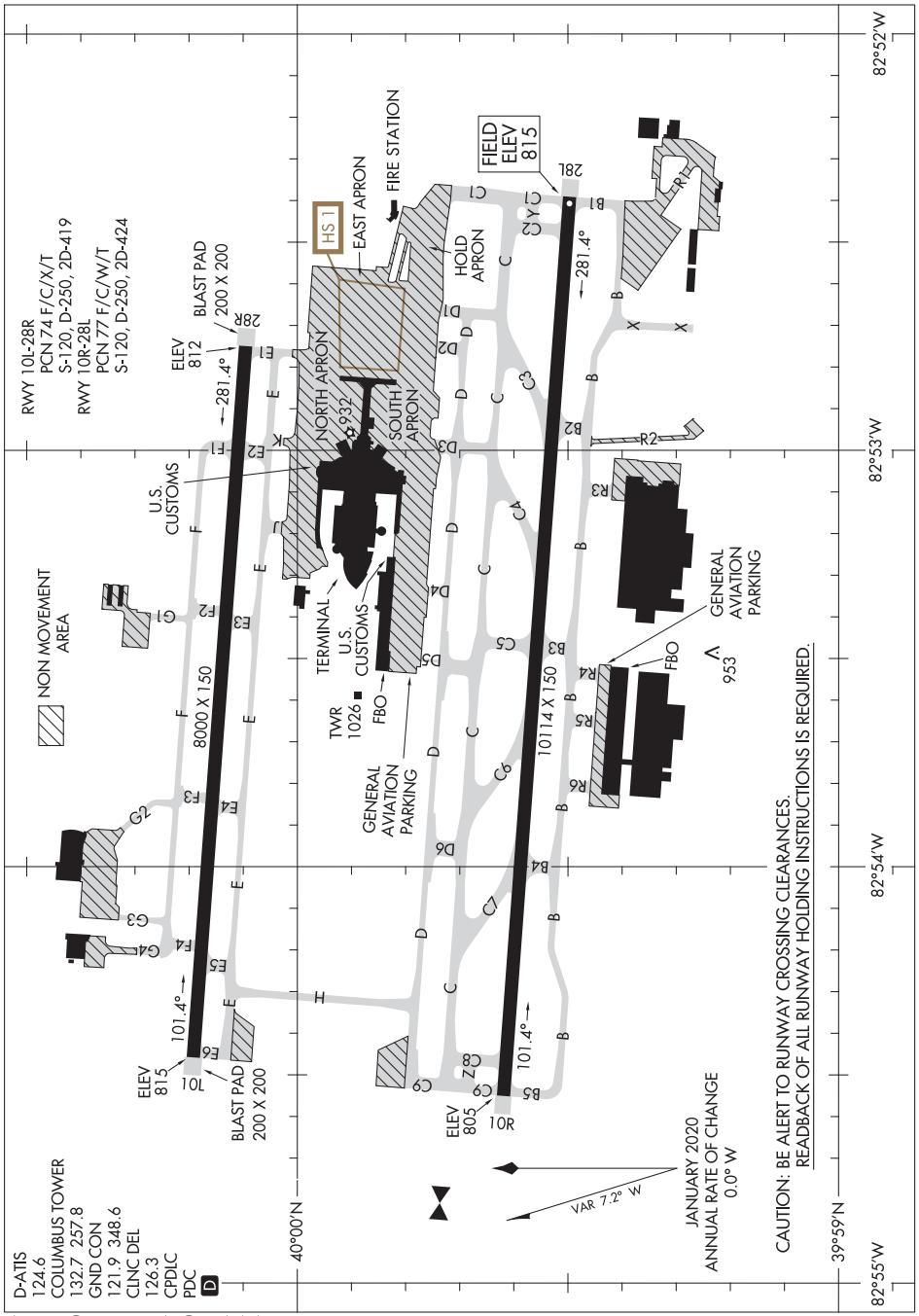
ELEV 815 D TDZE 813



CATEGORY	A	B	C	D
LPV DA	1018/24 205 (300-½)			
LNAV/VNAV DA	1122/24 309 (400-½)			
LNAV MDA	1280/24 467 (500-½)		1280/50 467 (500-1)	
C CIRCLING	1340-1 525 (600-1)		1520-2 705 (800-2)	1520-2¼ 705 (800-2¼)

TDZ/CL Rwy 10R-28L
HIRL Rwys 10R-28L and 10L-28R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COLUMBUS, OHIO AL-5387 (FAA) 20254

ILS or LOC RWY 9R
OHIO STATE UNIVERSITY (OSU)

LOC I-OSU	APP CRS	Rwy ldg	5004
108.5	092°	TDZE	905
		Apt Elev	905

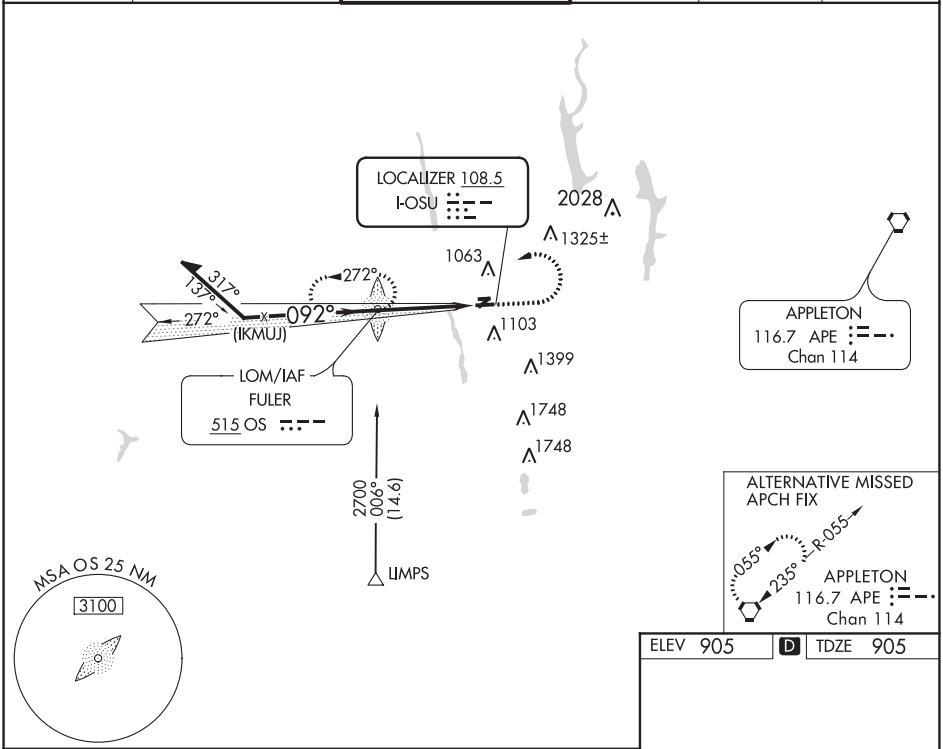
ADF required for procedure entry. ADF required.

When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 35 feet and all MDA 40 feet. Increase S-LOC 9R Cat C/D and Circling Cat C visibility ⅛ mile. Circling Rwy 23 NA at night.

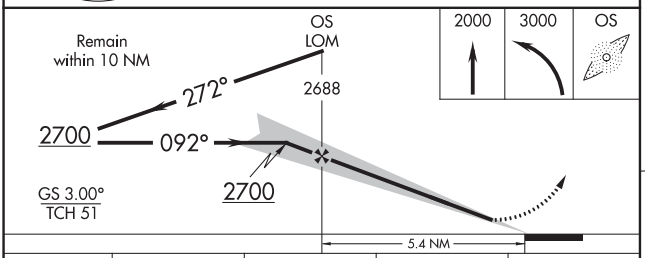
MALSR

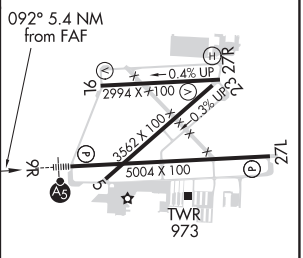
MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct FULER LOM and hold.

ATIS	COLUMBUS APP CON	STATE TOWER ★	GND CON	CLNC DEL	UNICOM
121.35	125.95 317.775	118.8 (CTAF) L 254.325	121.7	121.7	122.95



ELEV 905 D TDZE 905





REIL Rwy 27L
HIRL Rwy 9R-27L
MIRL Rwys 9L-27R

CATEGORY	A	B	C	D
S-ILS 9R	1105-½ 200 (200-½)			
S-LOC 9R	1420-½ 515 (600-½)		1420-1 515 (600- 1)	
CIRCLING	1420-1 515 (600-1)		1420-1½ 515 (600-1½)	1460-2 555 (600-2)

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

COLUMBUS, OHIO
Amdt 5B 18JUN20

40°05'N - 83°04'W

OHIO STATE UNIVERSITY (OSU)
ILS or LOC RWY 9R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86420 W09A	APP CRS 092°	Rwy ldg 5004 TDZE 905 Apt Elev 905

RNAV (GPS) RWY 9R
OHIO STATE UNIVERSITY (OSU)

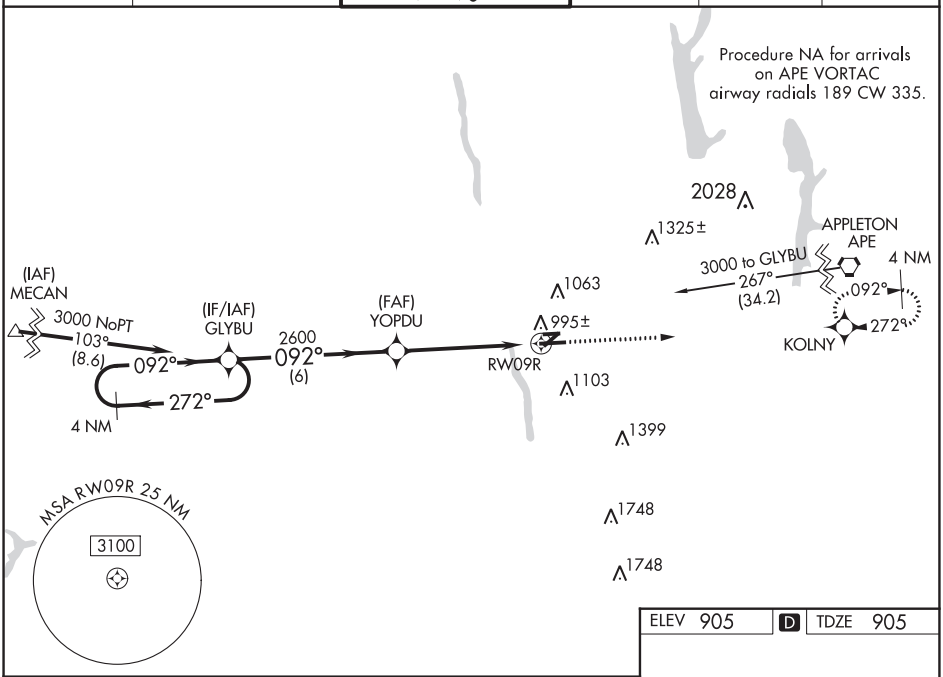
RNP APCH.

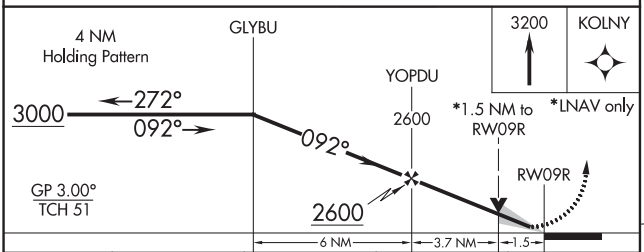
Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 38°C. VDP NA with John Glenn Columbus Intl altimeter setting. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 35 feet and all MDA 40 feet. Increase LNAV Cat C/D visibility ⅛ mile. Circling Rwy 23 NA at night. For inop ALS, increase LNAV/VNAV visibility all Cats to ⅞ SM.

MALSR

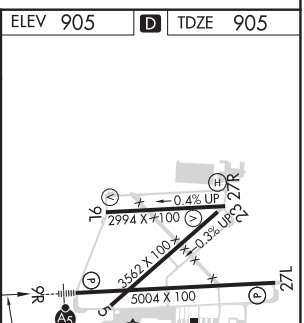
MISSED APPROACH: Climb to 3200 direct KOLNY and hold.

ATIS	COLUMBUS APP CON	STATE TOWER ★	GND CON	CLNC DEL	UNICOM
121.35	125.95 317.775	118.8 (CTAF) L 254.325	121.7	121.7	122.95





CATEGORY	A	B	C	D
LPV DA	1105-½ 200 (200-½)			
LNAV/VNAV DA	1192-½ 287 (300-½)			
LNAV MDA	1420-½ 515 (600-½)		1420-1 515 (600-1)	
CIRCLING	1420-1 515 (600-1)		1420-1½ 515 (600-1½)	1460-2 555 (600-2)



REIL Rwy 27L
HIRL Rwy 9R-27L
MIRL Rwys 9L-27R

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RNAV (GPS) RWY 27L
OHIO STATE UNIVERSITY (OSU)

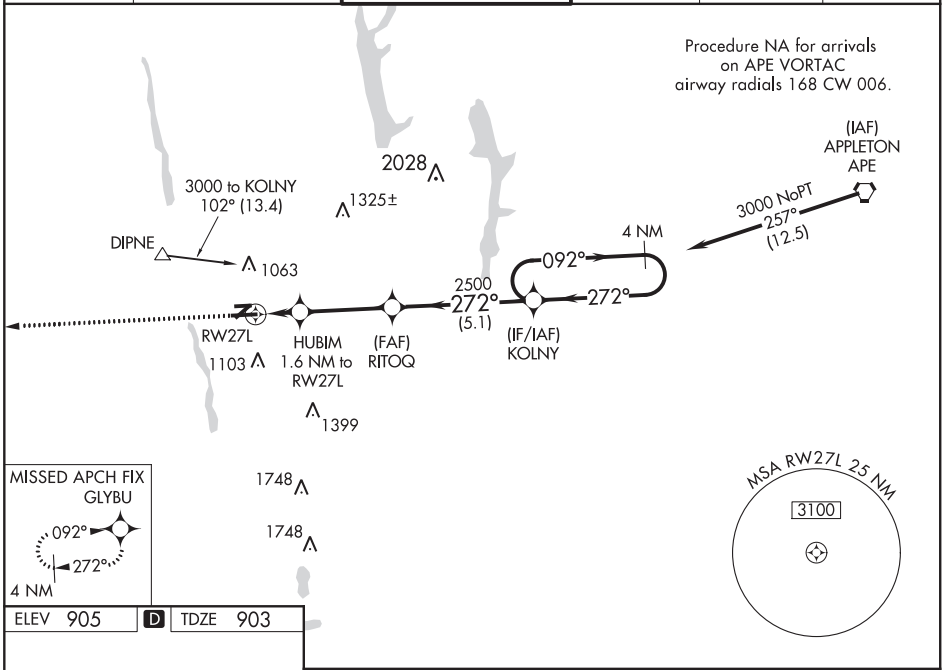
WAAS CH 45720 W27A	APP CRS 272°	Rwy ldg 5004 / TDZE 903 / Apt Elev 905

RNP APCH.

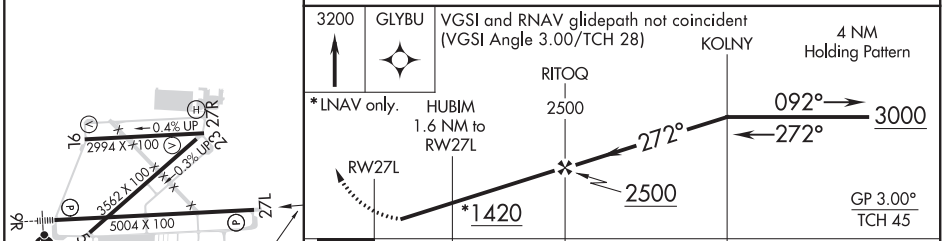
Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 38°C. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 35 feet and all MDA 40 feet, increase LNAV/VNAV all Cats and LNAV Cats C/D visibility ⅛ mile. Circling Rwy 23 NA at night. Rwy 27L helicopter visibility reduction below ¾ SM NA.

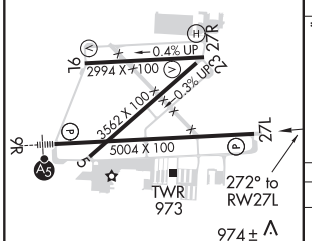
MISSED APPROACH: Climb to 3200 direct GLYBU and hold.

ATIS	COLUMBUS APP CON	STATE TOWER ★	GND CON	CLNC DEL	UNICOM
121.35	125.95 317.775	118.8 (CTAF) 254.325	121.7	121.7	122.95



ELEV 905 | D | TDZE 903





CATEGORY	A	B	C	D
LPV DA	1153-1 250 (300-1)			
LNAV/VNAV DA	1199-1 296 (300-1)			
LNAV MDA	1280-1 377 (400-1)		1280-1⅛ 377 (400-1⅛)	
CIRCLING	1380-1 475 (500-1)		1420-1½ 515 (600-1½)	1460-2 555 (600-2)

REIL Rwy 27L
HIRL Rwy 9R-27L
MIRL Rwys 9L-27R

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NDB RWY 9R
OHIO STATE UNIVERSITY (OSU)

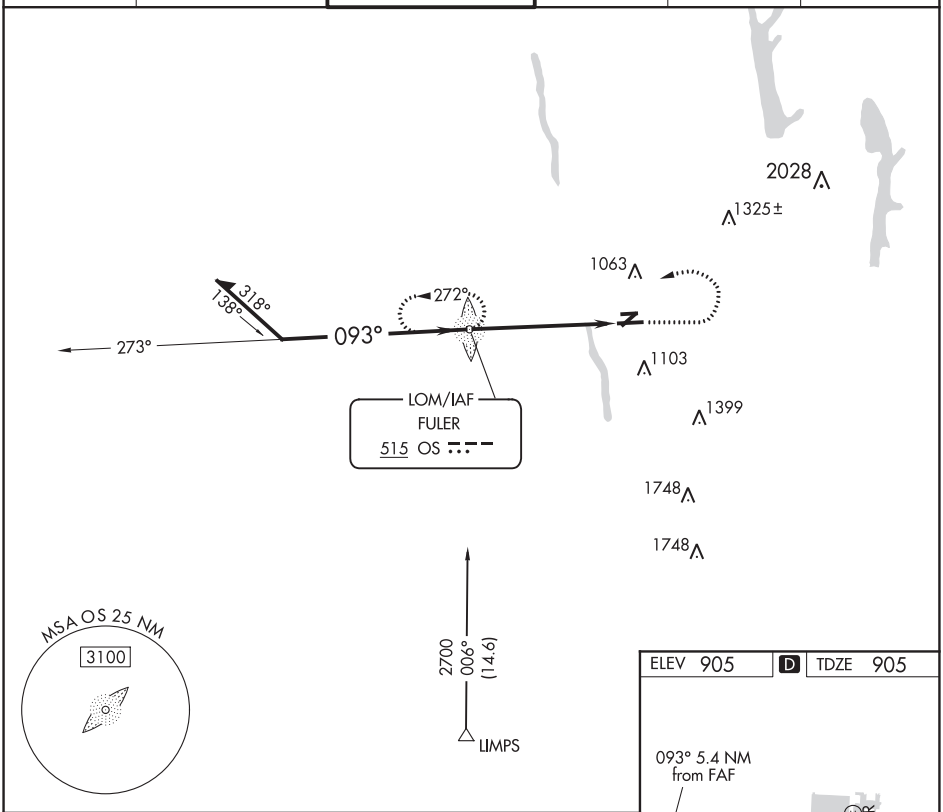
LOM OS	APP CRS	Rwy ldg	5004
515	093°	TDZE	905
		Apt Elev	905

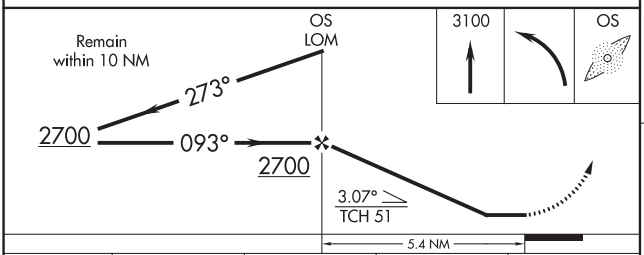
When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all MDA 40 feet. Increase S-9R Cat C/D and Circling Cat C visibility ⅛ mile. Circling Rwy 23 NA at night.

MALSR

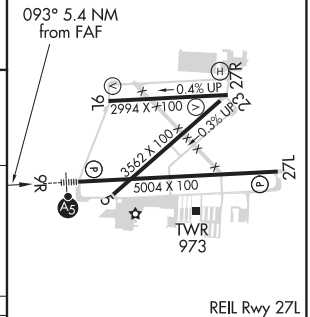
MISSED APPROACH: Climb to 3100 then left turn direct OS LOM and hold.

ATIS	COLUMBUS APP CON	STATE TOWER★	GND CON	CLNC DEL	UNICOM
121.35	125.95 317.775	118.8 (CTAF) L 254.325	121.7	121.7	122.95





ELEV 905 D TDZE 905



REIL Rwy 27L
HIRL Rwy 9R-27L
MIRL Rwys 9L-27R

CATEGORY	A	B	C	D
S-9R	1460-¾ 555 (600-¾)		1460-1⅛ 555 (600-1⅛)	
CIRCLING	1460-1 555 (600-1)		1460-1⅝ 555 (600-1⅝)	1460-2 555 (600-2)

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

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AIRPORT DIAGRAM

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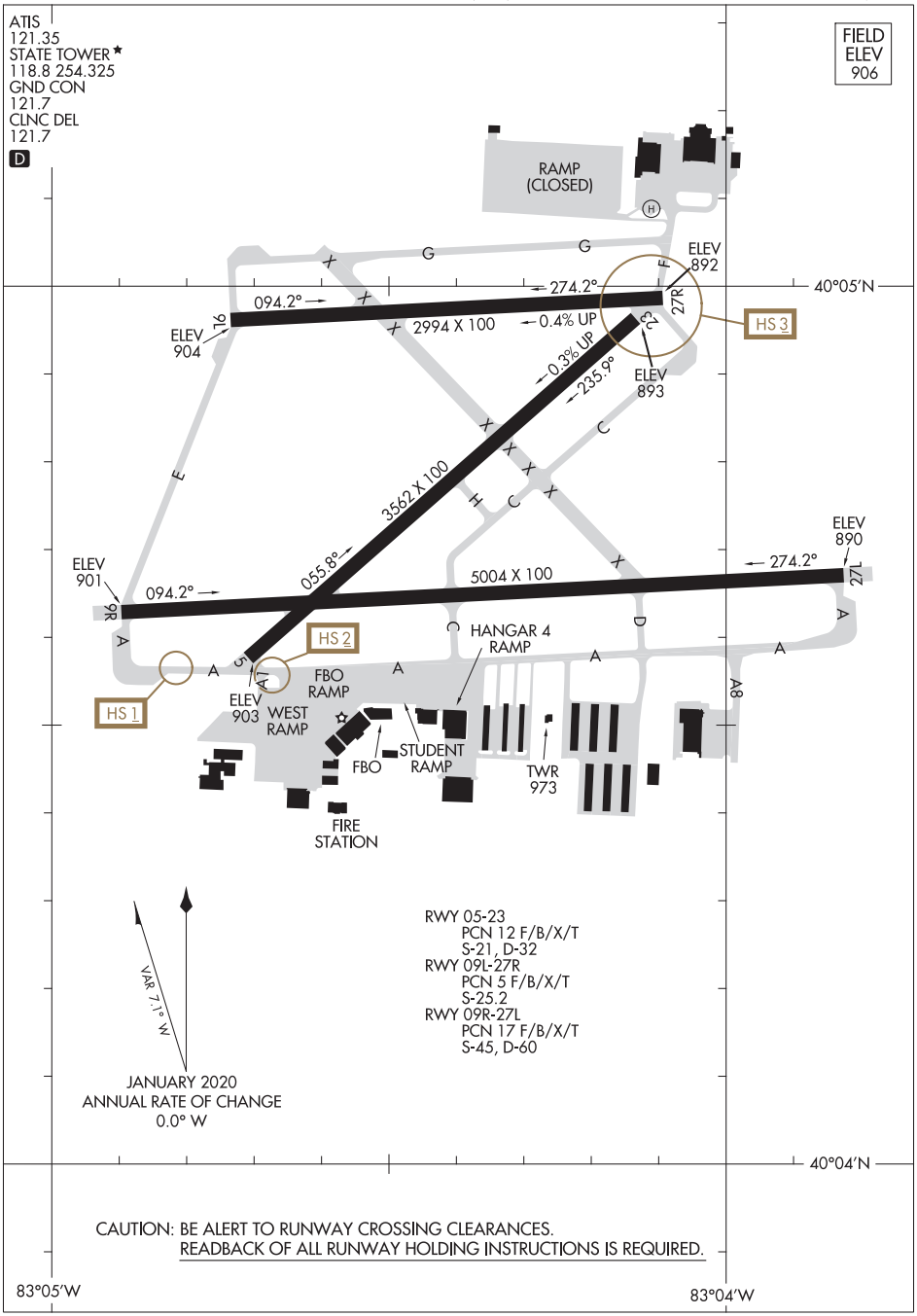
OHIO STATE UNIVERSITY (OSU)

COLUMBUS, OHIO



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AIRPORT DIAGRAM
20254
COLUMBUS OHIO
OHIO STATE UNIVERSITY (OSU)

LOC/DME I-FQS	APP CRS	Rwy ldg	11004
110.55	052°	TDZE	744
Chan 42 (Y)		Apt Elev	744

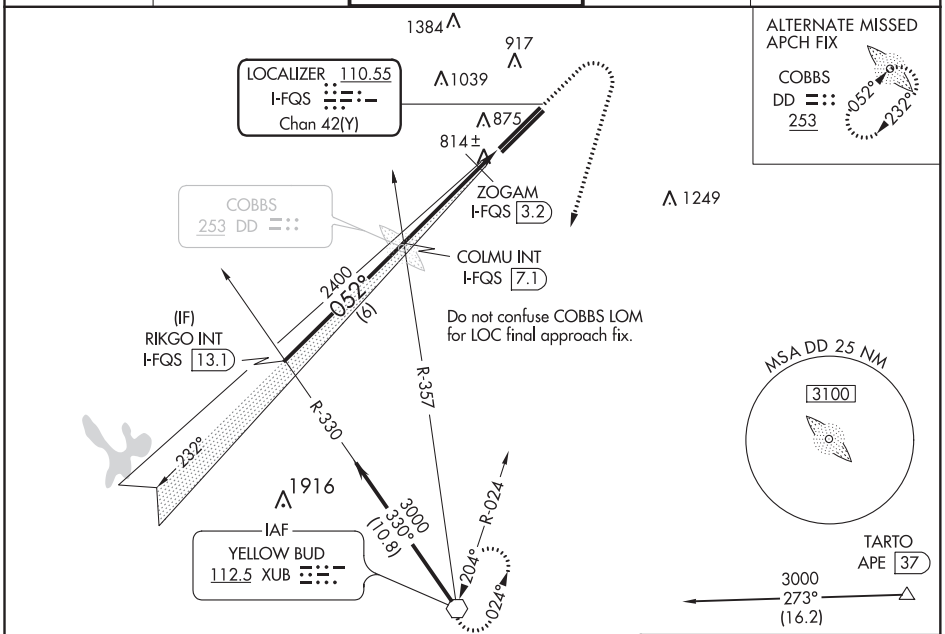
ILS or LOC RWY 5L
RICKENBACKER INTL (LCK)

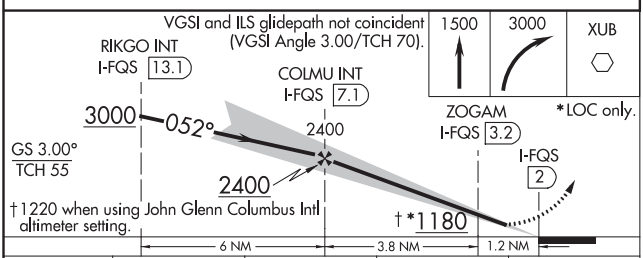
A Circling NA northwest of Rwy 5L-23R. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 Feet and all MDA 40 feet, increase S-LOC 5L visibility Cat C and D ½ mile; increase ZOGAM fix minimums visibility Cat C and D ⅜ mile.

MALSR A5

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

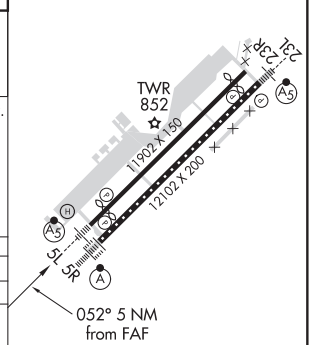
ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8





CATEGORY	A	B	C	D
S-ILS 5L	944-½ 200 (200-½)			
S-LOC 5L	1180-½ 436 (500-½)		1180-¾ 436 (500-¾)	
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)
ZOGAM FIX MINIMUMS				
S-LOC 5L	1080-½ 336 (400-½)			
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)

ELEV 744 D TDZE 744



TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

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ILS or LOC RWY 5R
RICKENBACKER INTL (LCK)

LOC/DME I-DDV	APP CRS	Rwy ldg	12102
110.1	052°	TDZE	736
Chan 38		Apt Elev	744

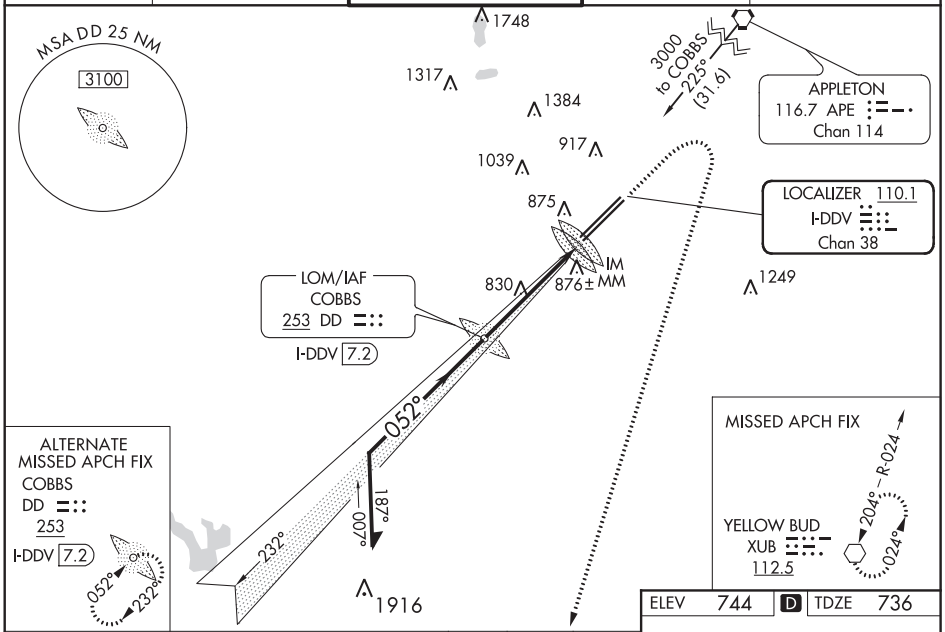
ADF or DME required.

Circling NA northwest of Rwy 5L-23R.

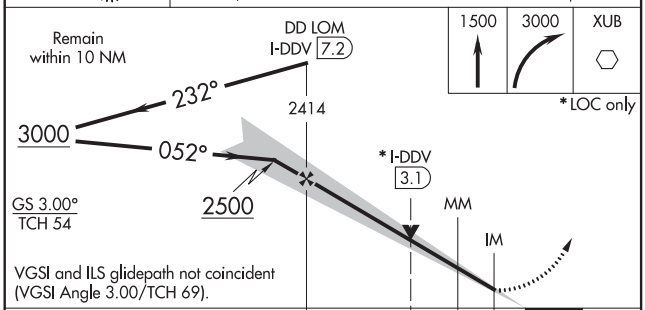
ALSF-2

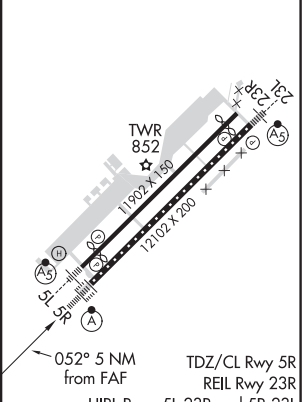
MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV	744	D	TDZE	736





CATEGORY	A	B	C	D
S-ILS 5R	936/18 200 (200-½)			
S-LOC 5R	1080/24 344 (400-½)		1080/30 344 (400-⅝)	
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

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ILS or LOC RWY 23L
RICKENBACKER INTL (LCK)

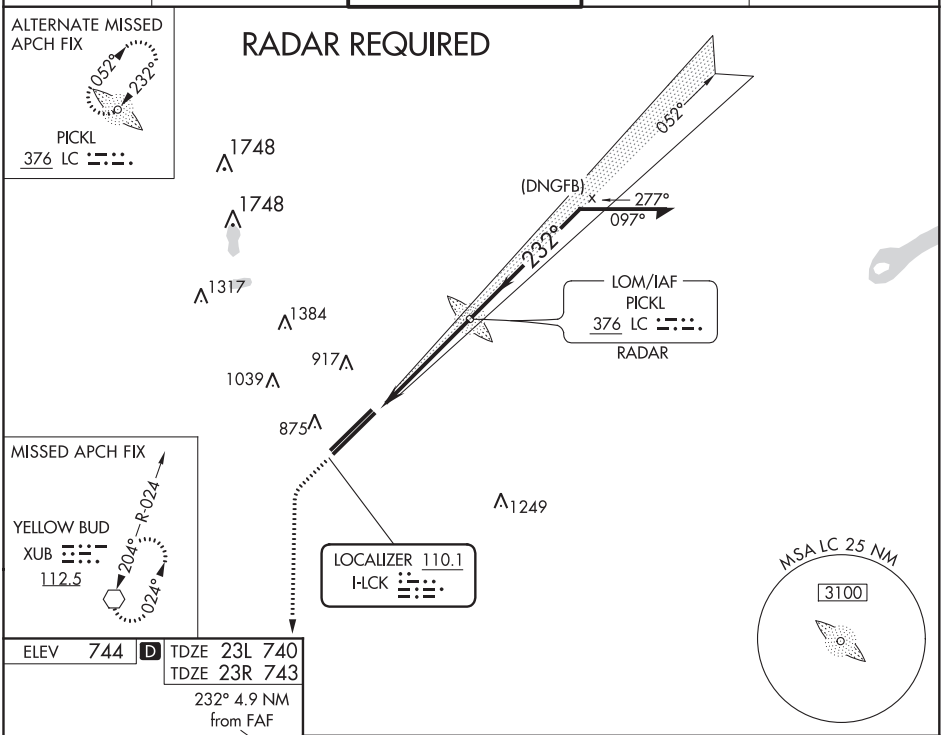
LOC I-LCK	APP CRS	Rwy ldg	23L	23R
110.1	232°		12102	10913
		TDZE	740	743
		Apt Elev	744	744

Circling NA northwest of Rwy 5L-23R. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 feet and all MDA 40 feet, increase S-LOC 23L visibility Cat C and D to RVR 5500.

MALSR

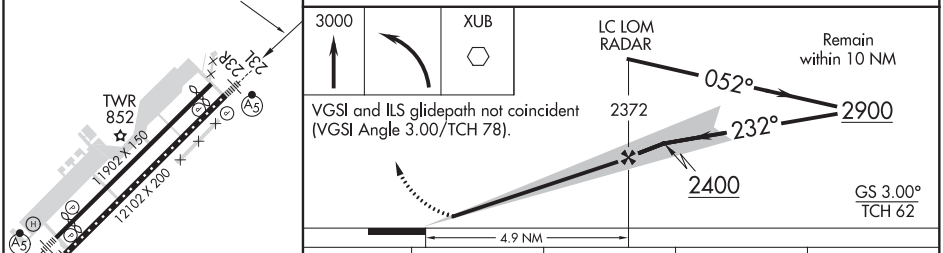
MISSED APPROACH: Climb to 3000, then left turn direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV 744 D TDZE 23L 740
TDZE 23R 743

232° 4.9 NM from FAF



VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 78).

TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

CATEGORY	A	B	C	D
S-ILS 23L	940/24 200 (200-½)			
S-LOC 23L	1220/24 480 (500-½)		1220/50 480 (500-1)	
SIDESTEP RWY 23R	1220-1 477 (500-1)		1220-1½ 477 (500-1½)	1220-2 477 (500-2)
CIRCLING	1220-1 476 (500-1)		1220-1½ 476 (500-1½)	1300-2 556 (600-2)

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ILS RWY 5R (SA CAT I)
RICKENBACKER INTL (LCK)

LOC/DME I-DDV	APP CRS	Rwy ldg	12102
110.1	052°	TDZE	736
Chan 38		Apt Elev	744

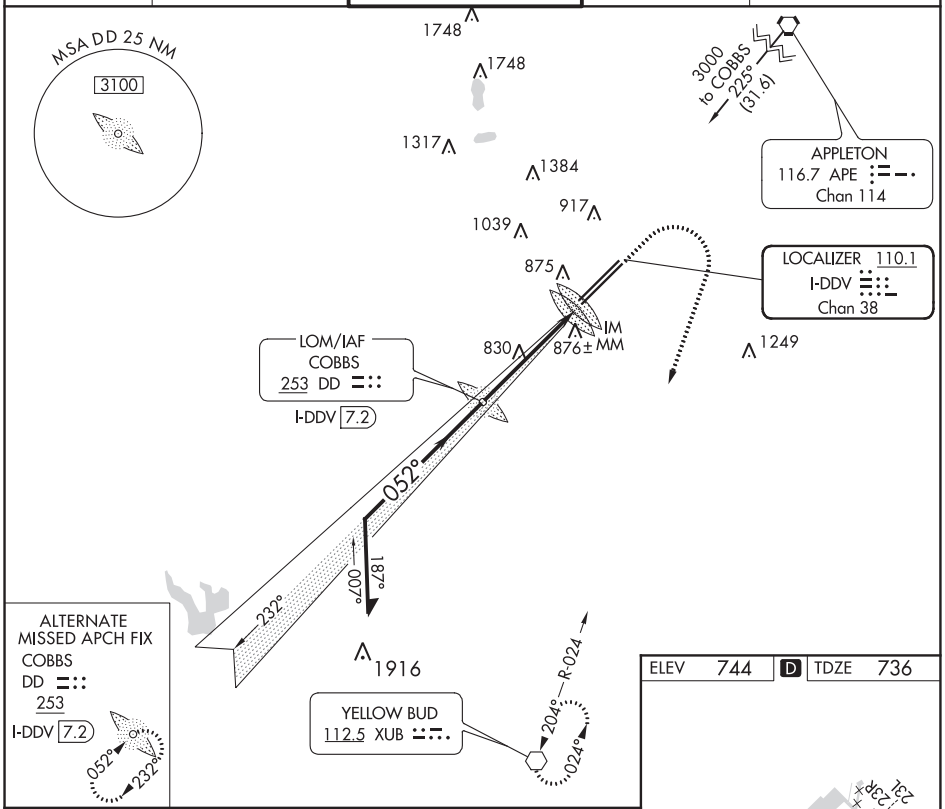
ADF or DME required.

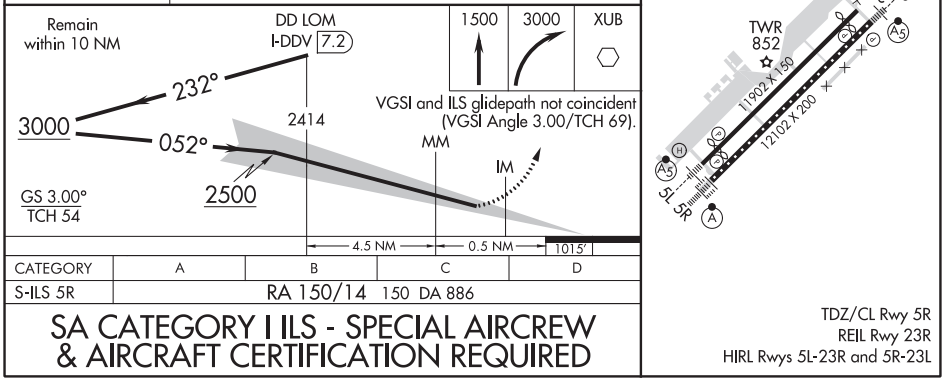
Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8





CATEGORY	A	B	C	D
S-ILS 5R	RA 150/14 150 DA 886			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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COLUMBUS, OHIO
Amdt 3C 05DEC19

39°49'N-82°56'W

RICKENBACKER INTL (LCK)
ILS RWY 5R (SA CAT I)

ILS RWY 5R (CAT II)
RICKENBACKER INTL (LCK)

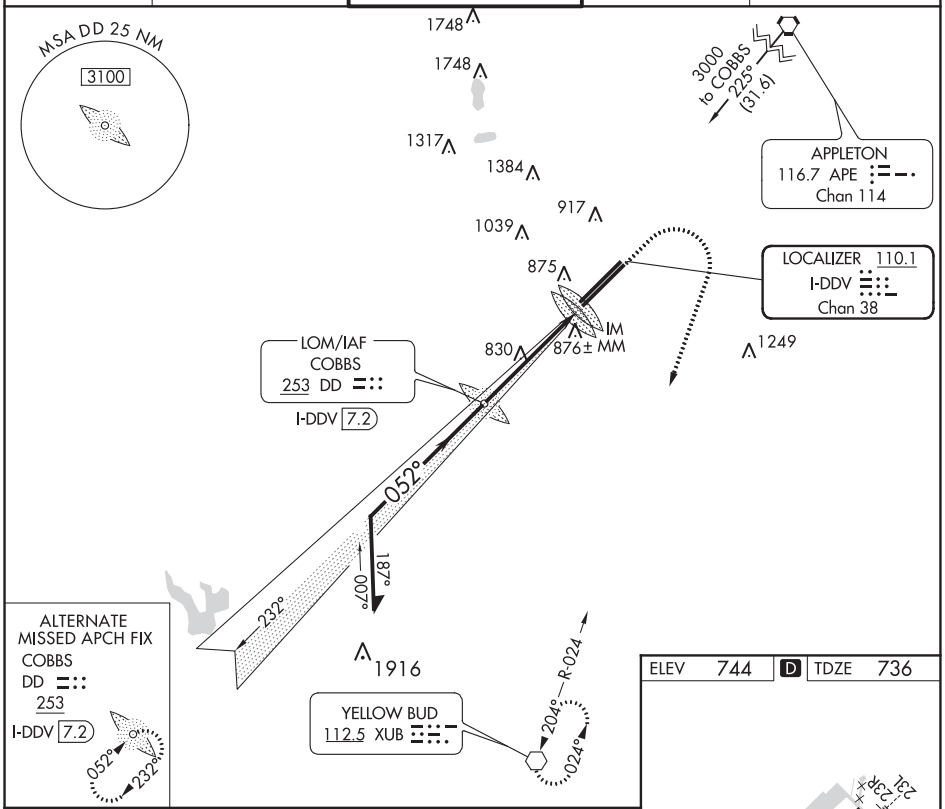
LOC/DME I-DDV	APP CRS	Rwy ldg	12102
110.1	052°	TDZE	736
Chan 38		Apt Elev	744

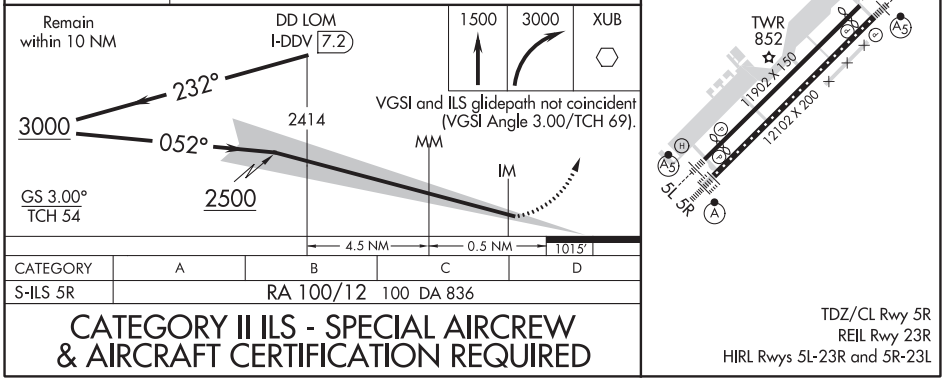
ADF or DME required.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8





CATEGORY	A	B	C	D
S-ILS 5R	RA 100/12 100 DA 836			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

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WAAS CH 78022 W05B	APP CRS 050°	Rwy ldg 11004 TDZE 744 Apt Elev 744

RNAV (GPS) RWY 5L
RICKENBACKER INTL (LCK)

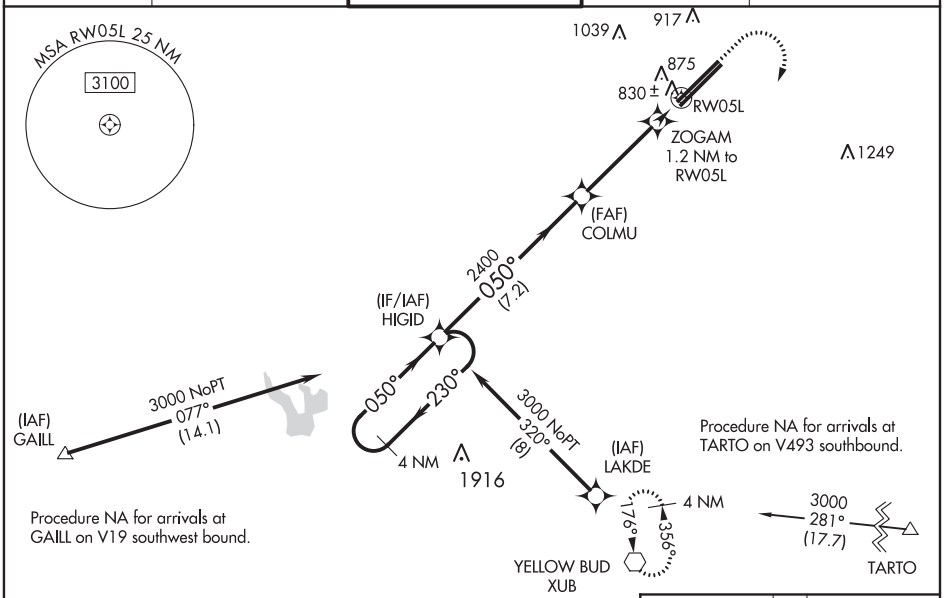
RNP APCH.

Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For inoperative MALSR, increase LNAV/VNAV all Cats visibility to ¾ mile. Circling NA northwest of Rwy 5L-23R. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 feet, and all MDA 40 feet. Increase LNAV Cat C and D visibility ⅛ mile.

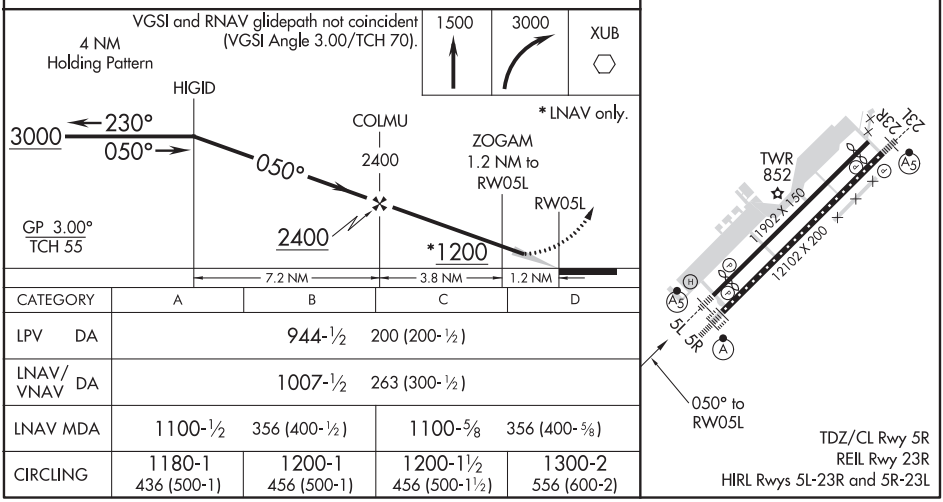
MALSR

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV 744 | D | TDZE 744



CATEGORY	A	B	C	D
LPV DA	944-½ 200 (200-½)			
LNAV/VNAV DA	1007-½ 263 (300-½)			
LNAV MDA	1100-½ 356 (400-½)		1100-⅝ 356 (400-⅝)	
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)

TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

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WAAS CH 78410 W05A	APP CRS 050°	Rwy ldg 12102 TDZE 736 Apt Elev 744

RNAV (GPS) RWY 5R
RICKENBACKER INTL (LCK)

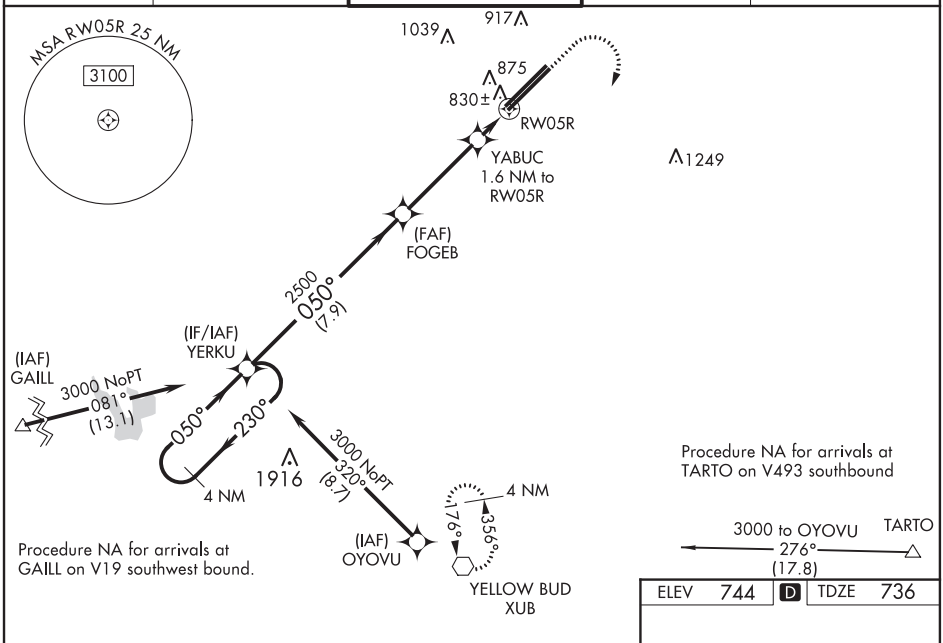
RNP APCH.

Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Circling NA northwest of Rwy 5L-23R. VDP NA with John Glenn Columbus Intl altimeter setting. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 feet, and all MDA 40 feet. Increase LNAV Cat C and D visibility to RVR 4000. For inop ALSF when using John Glenn Columbus Intl altimeter setting, increase LNAV/VNAV visibility to 1 mile all Cats.

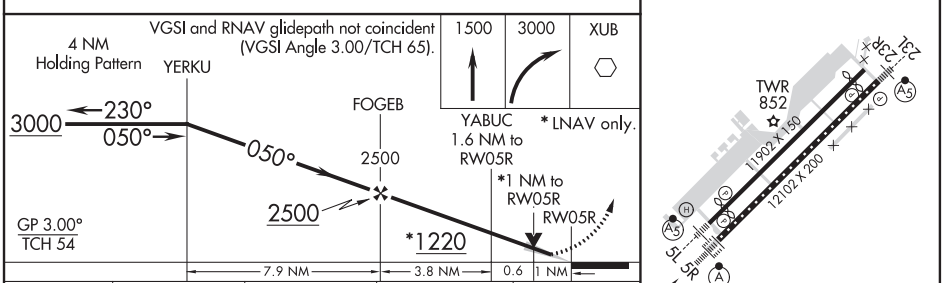
ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV 744	D	TDZE 736



CATEGORY	A	B	C	D
LPV DA	936/18 200 (200-½)			
LNAV/VNAV DA	1103/35 367 (400-⅝)			
LNAV MDA	1120/24 384 (400-½)		1120/35 384 (400-⅝)	
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)

TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

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WAAS CH 62811 W23A	APP CRS 230°	Rwy ldg 12102 TDZE 739 Apt Elev 744

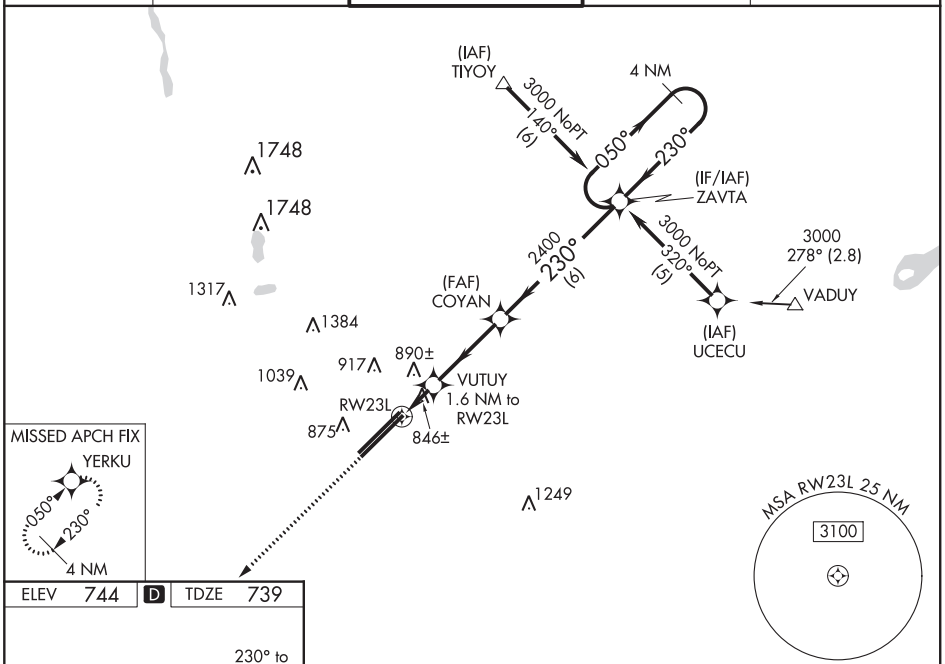
RNAV (GPS) RWY 23L
RICKENBACKER INTL (LCK)

Circling NA NW of Rwy 5L-23R. Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 feet and LNAV/VNAV all Cats visibility to RVR 5000, increase all MDA 40 feet. ** RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using John Glenn Columbus Intl altimeter setting.

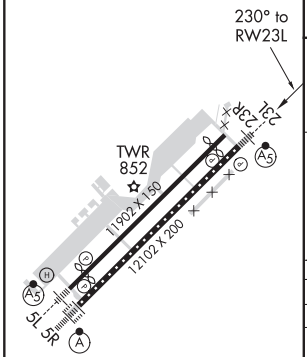
MALSR

MISSED APPROACH: Climb to 3000 direct YERKU and hold.

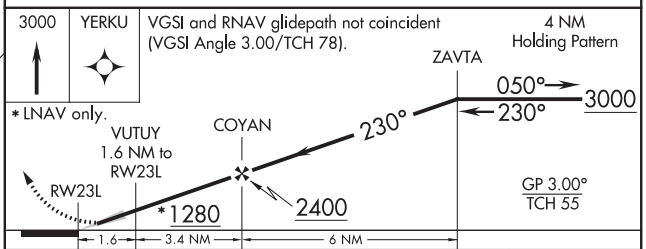
ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV 744 | D | TDZE 739



TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L



* LNAV only.

CATEGORY	A	B	C	D
LPV DA **	939/24 200 (200-½)			
LNAV/VNAV DA	1121/40 382 (400-¾)			
LNAV MDA	1180/24 441 (500-½)		1180/40 441 (500-¾)	1180/50 441 (500-1)
CIRCLING	1180-1 436 (500-1)	1200-1 456 (500-1)	1200-1½ 456 (500-1½)	1300-2 556 (600-2)

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WAAS CH 78421 W23B	APP CRS 230°	Rwy ldg 10913 TDZE 743 Apt Elev 744

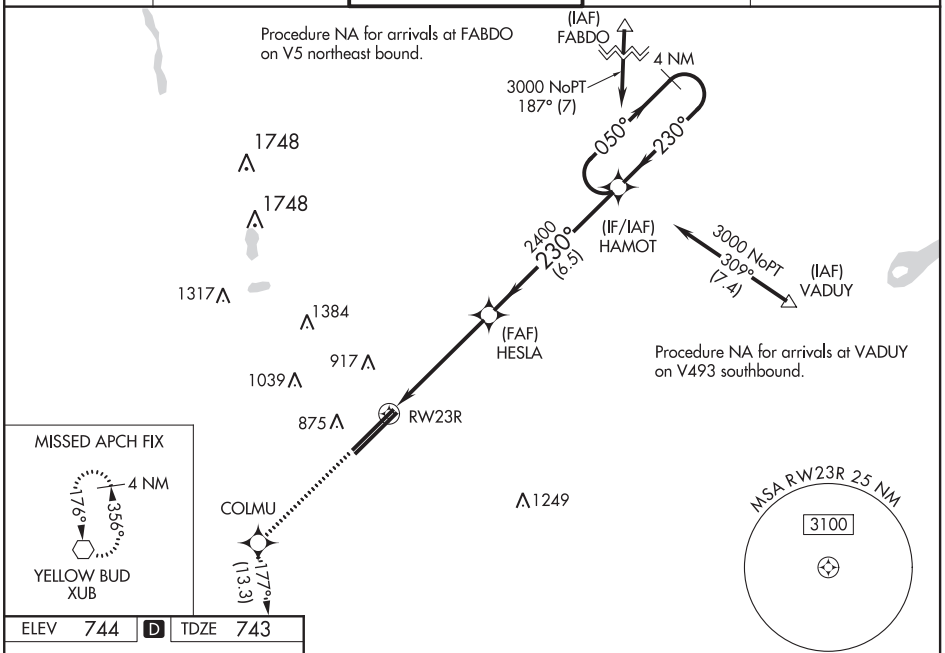
RNAV (GPS) RWY 23R
RICKENBACKER INTL (LCK)

RNP APCH.

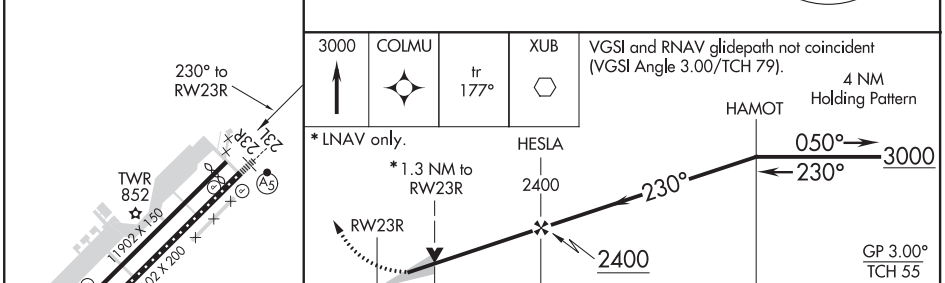
A Baro-VNAV NA when using John Glenn Columbus Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Circling NA northwest of Rwy 5L-23R. VDP NA with John Glenn Columbus Intl altimeter setting. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all DA 36 feet and all MDA 40 feet. Increase LNAV/VNAV visibility ⅛ mile all Cats.

MISSED APPROACH: Climb to 3000 direct COLMU and on track 177° to XUB VOR and hold.

ATIS	COLUMBUS APP CON	RICK TOWER	GND CON	CLNC DEL
132.75	134.0 279.6	120.05 348.4	125.275 275.8	125.275 275.8



ELEV 744 D TDZE 743



CATEGORY	A	B	C	D
LPV DA	943-¾ 200 (200-¾)			
LNAV/VNAV DA	1006-⅞ 263 (300-⅞)			
LNAV MDA	1220-1 477 (500-1)		1220-1⅜ 477 (500-1⅜)	
CIRCLING	1220-1 476 (500-1)		1220-1½ 476 (500-1½)	1300-2 556 (600-2)

TDZ/CL Rwy 5R
REIL Rwy 23R
HIRL Rwys 5L-23R and 5R-23L

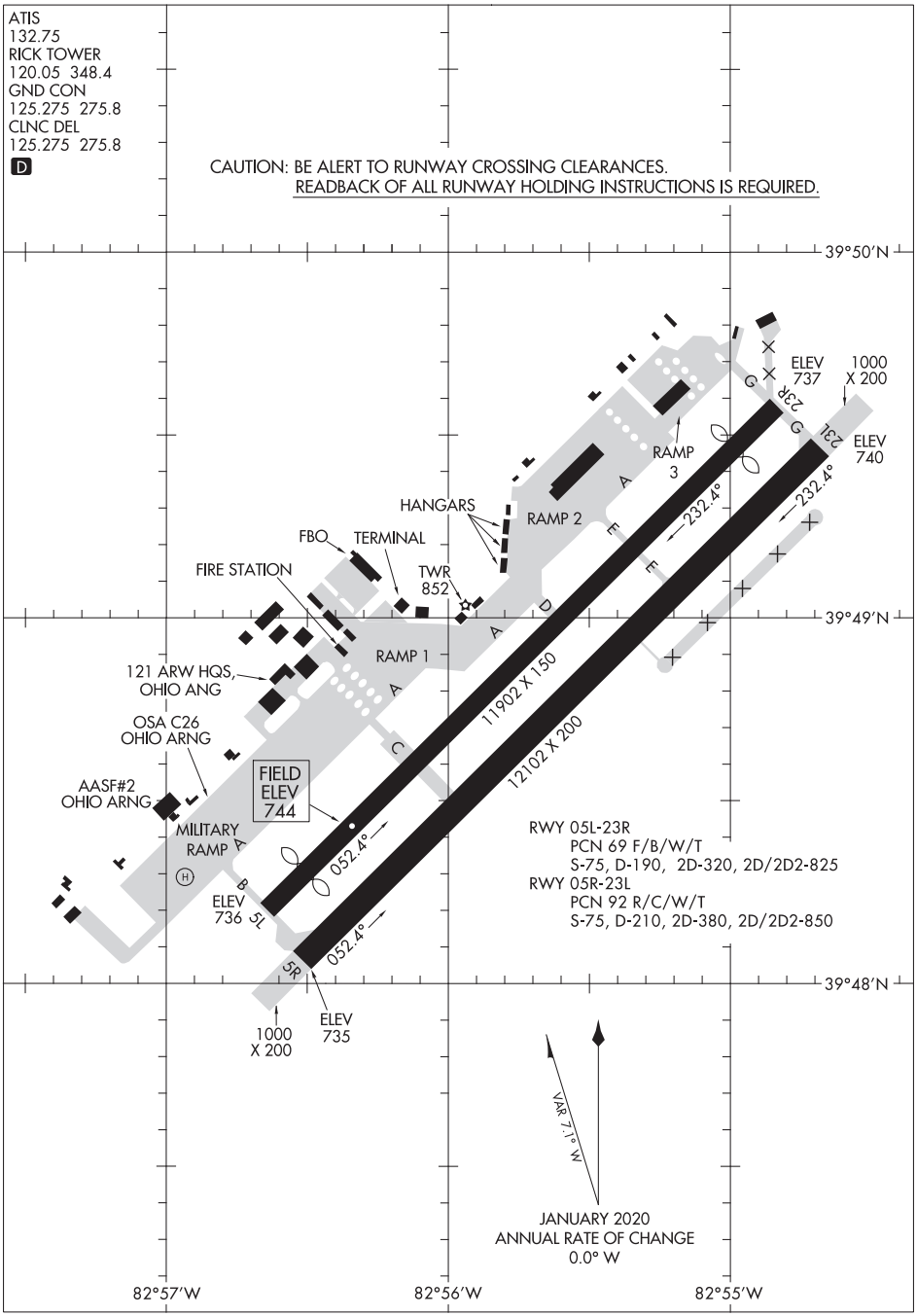
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-6846 (FAA)

RICKENBACKER INTL (LCK)
COLUMBUS, OHIO

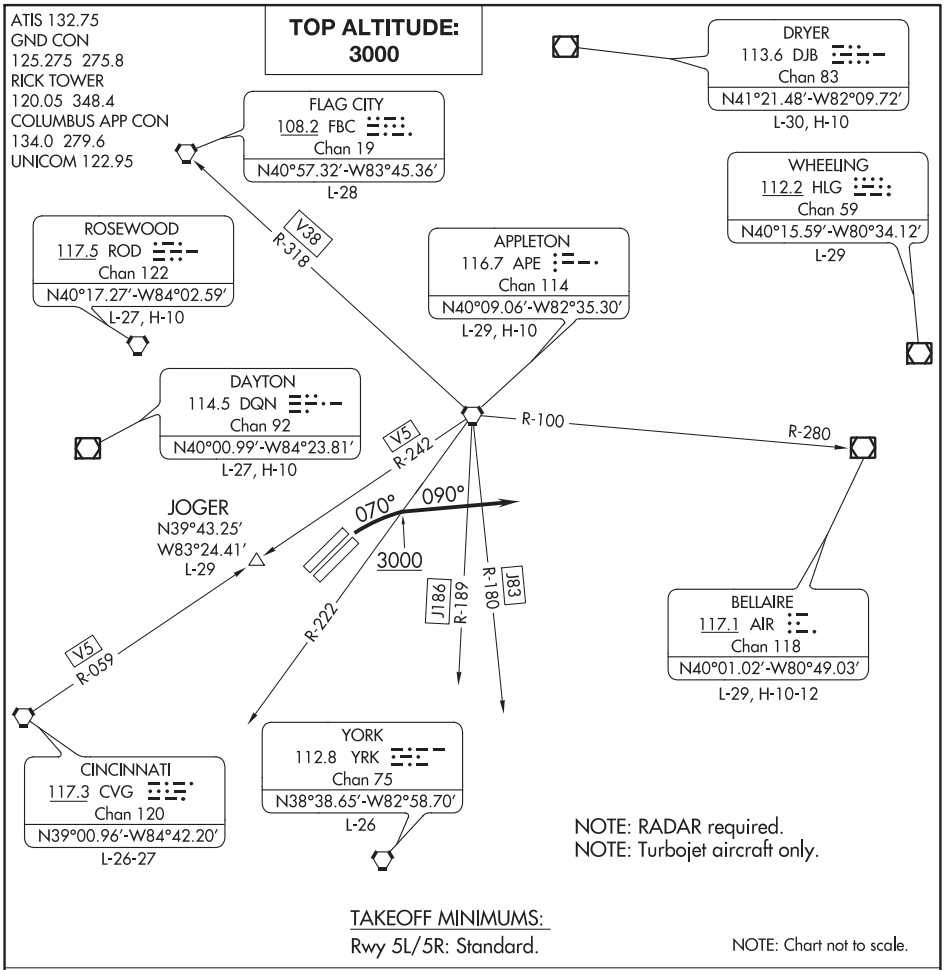


EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
COLUMBUS, OHIO
RICKENBACKER INTL (LCK)

LOCKBOURNE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 5L/5R: Climbing right turn to 3000 on heading 070° until crossing APE R-222, then right turn heading 090° for vectors to assigned route and clearance to filed altitude 10 minutes after departure.

EC-2, 25 FEB 2021 to 22 APR 2021

CONNERSVILLE, INDIANA — AL-5371 (FAA) — 19339

ILS or LOC RWY 18
METTEL FIELD (CEV)

LOC I-SQK	APP CRS	Rwy ldg	6503
108.35	185°	TDZE	866
		Apt Elev	866

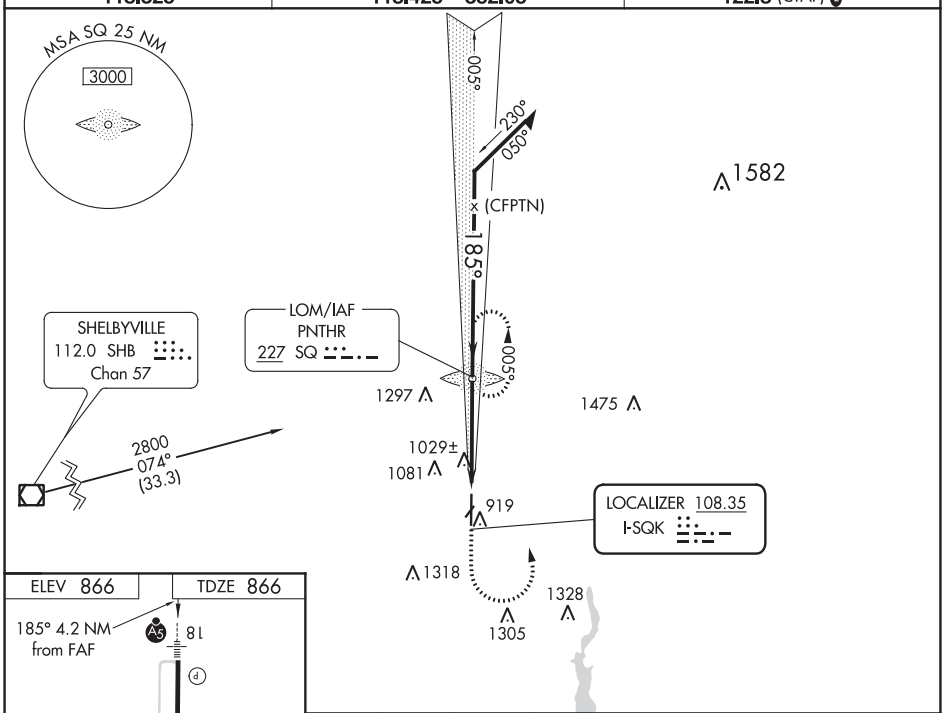
ADF required.

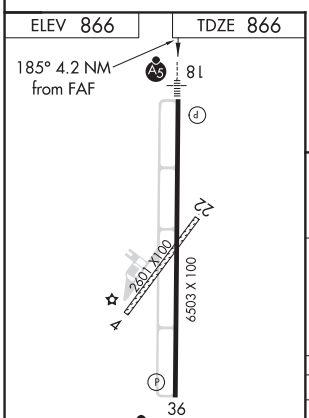
T A NA Circling NA to Rwys 4 and 22. For inop MALSR, increase S-LOC 18 Cats C/D visibility to 1⅛ mile. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase ILS DA to 1237 feet and visibility all Cats to ⅝ mile, increase all MDA 140 feet and LOC Cats C/D visibility to 1⅛ mile, and Circling Cat B visibility to 1¼ miles and Cat C to 2¾ miles and Cat D to 3 miles. When using James M Cox Dayton Intl altimeter setting: for inop MALSR, increase S-ILS 18 all Cats visibility to 1 mile and increase S-LOC 18 Cat A/B visibility to 1 mile and Cat C/D to 1⅝ mile.

MALSR A5

MISSED APPROACH: Climb to 2800 then left turn direct SQ LOM and hold.

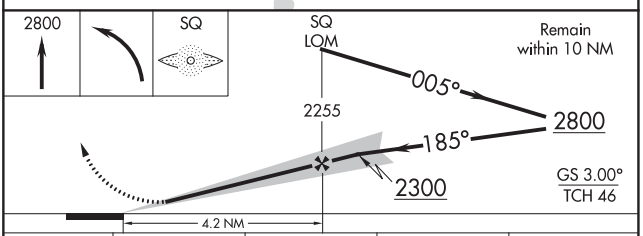
AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 352.05	122.8 (CTAF) L





MIRL Rwy 18-36 L
REIL Rwys 18 and 36 L

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24



CATEGORY	A	B	C	D
S-ILS 18	1116-½ 250 (300-½)			
S-LOC 18	1280-½ 414 (500-½)		1280-¾ 414 (500-¾)	
C CIRCLING	1440-1 574 (600-1)	1540-1 674 (700-1)	1620-2¼ 754 (800-2¼)	1620-2½ 754 (800-2½)

CONNERSVILLE, INDIANA
Amdt 1 03JAN19

39°42′N-85°08′W

METTEL FIELD (CEV)
ILS or LOC RWY 18

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 18
METTEL FIELD (CEV)

WAAS CH 93699 W18A	APP CRS 185°	Rwy ldg 6503 TDZE 866 Apt Elev 866

RNP APCH.

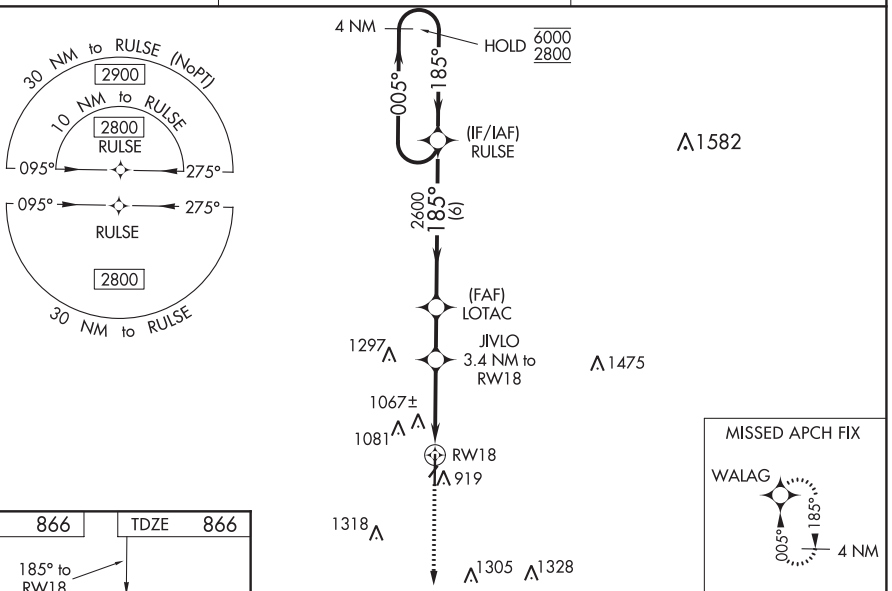
T A NA

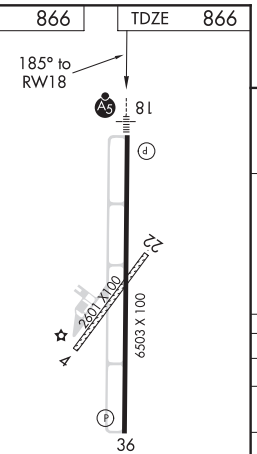
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. VDP and Baro-VNAV NA when using James M. Cox Dayton Intl altimeter setting. Circling Rwy 4, 22 NA at night. For inop ALS increase LPV all Cats visibility to 1 SM, LNAV/VNAV all Cats visibility to 1⅜ SM, and LNAV Cats A/B visibility to 1 SM. For inop ALS when using James M. Cox Dayton Intl altimeter setting, increase LPV all Cats visibility to 1 SM, LNAV/VNAV all Cats visibility to 1¾ SM. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting and increase all DA 121 feet and all MDA 140 feet: increase LPV and LNAV/VNAV all Cats and LNAV Cat C/D visibility ⅜ SM, and Circling Cat C/D visibility ½ SM.

MALSR A5

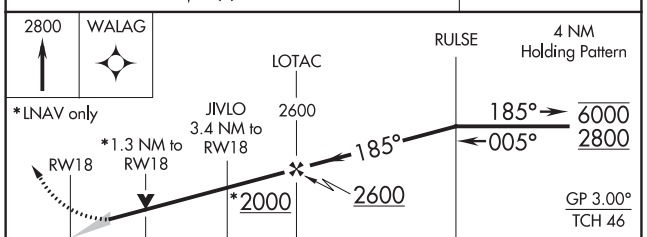
MISSED APPROACH: Climb to 2800 direct WALAG and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 352.05	122.8 (CTAF) L





REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	1116-½ 250 (300-½)			
LNAV/VNAV DA	1385-1 519 (600-1)			
LNAV MDA	1320-½ 454 (500-½)		1320-⅞ 454 (500-⅞)	
C CIRCLING	1440-1 574 (600-1)	1540-1 674 (700-1)	1620-2¼ 754 (800-2¼)	1620-2½ 754 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

CONNERSVILLE, INDIANA | AL-5371 (FAA) | 19339

RNAV (GPS) RWY 36
METTEL FIELD (CEV)

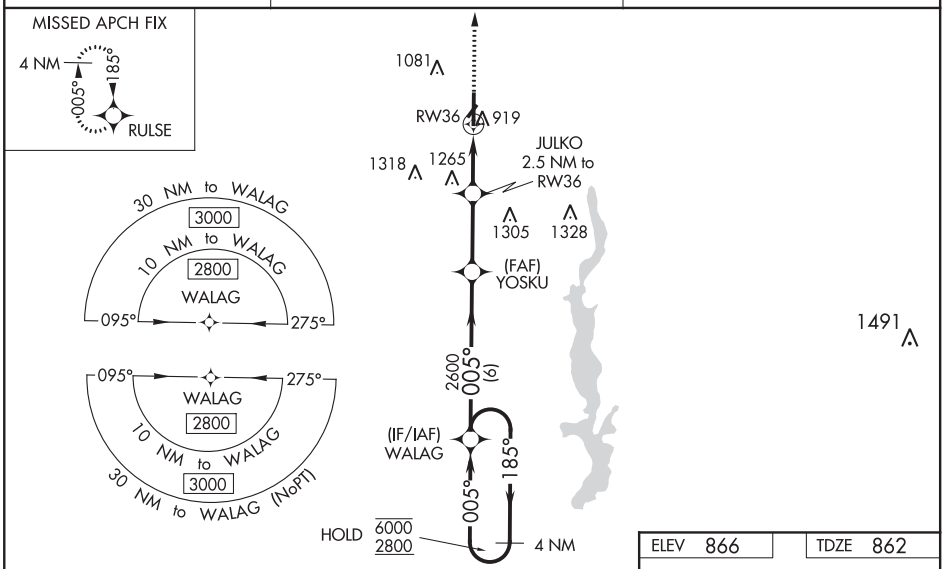
WAAS CH 93929 W36A	APP CRS 005°	Rwy ldg 6503 TDZE 862 Apt Elev 866

RNP APCH.

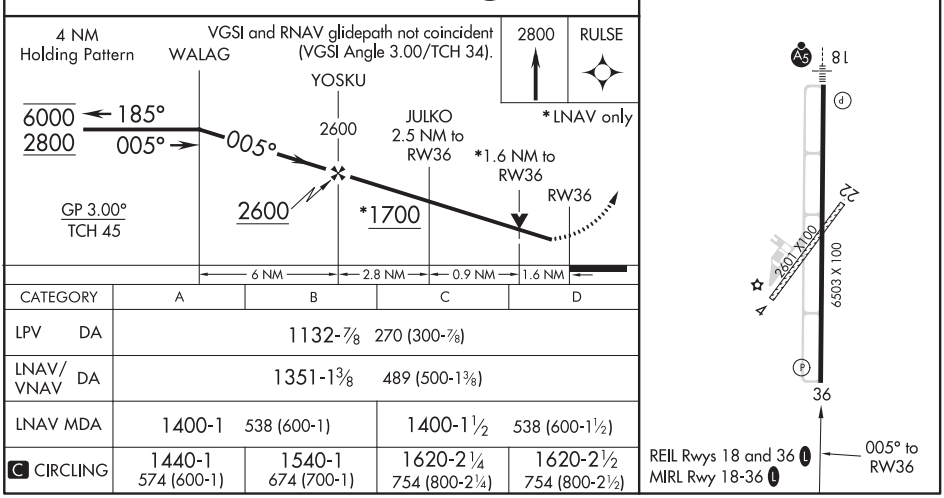
T A NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. VDP and Baro VNAV NA when using James M. Cox Dayton Intl altimeter setting. Rwy 36 helicopter visibility reduction below ¾SM NA. Circling Rwy 4, 22 NA at night. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase LPV DA to 1253 feet and visibility all Cats to 1⅛ SM, LNAV/VNAV DA to 1472 feet and visibility all Cats to 1¾ SM, increase all MDA 140 feet and LNAV Cats C/D visibility to 1⅞ SM, Circling Cat B to 1¼ SM, Cat C to 2¾ SM, and Cat D to 3 SM.

MISSED APPROACH: Climb to 2800 direct RULSE and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 352.05	122.8 (CTAF) L



ELEV 866 | TDZE 862



CATEGORY	A	B	C	D
LPV DA	1132-⅞ 270 (300-⅞)			
LNAV/VNAV DA	1351-1⅜ 489 (500-1⅜)			
LNAV MDA	1400-1 538 (600-1)		1400-1½ 538 (600-1½)	
C CIRCLING	1440-1 574 (600-1)	1540-1 674 (700-1)	1620-2¼ 754 (800-2¼)	1620-2½ 754 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86543 W04A	APP CRS 044°	Rwy ldg 5001 TDZE 978 Apt Elev 979

RNAV (GPS) RWY 4
RICHARD DOWNING (I40)

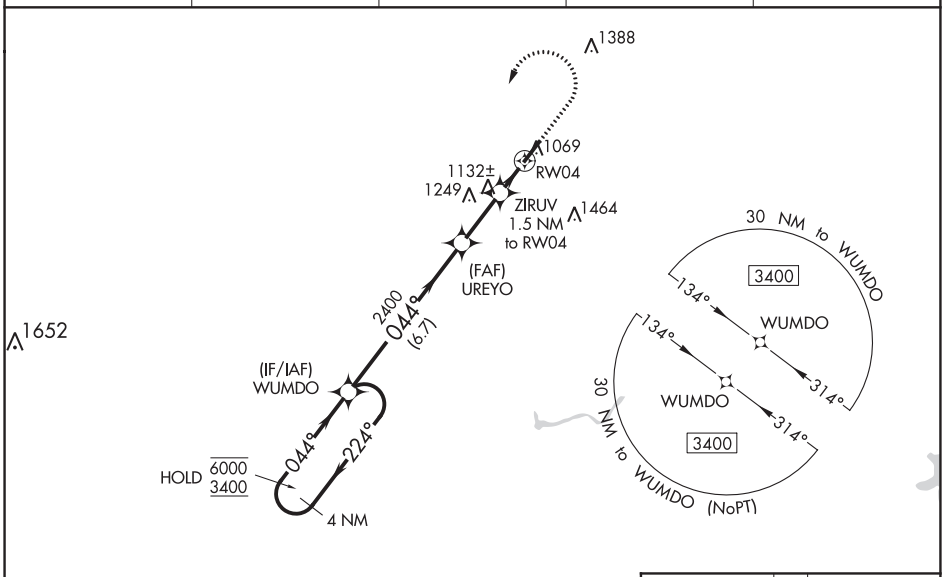
RNP APCH.

NA

Rwy 4 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA when using Zanesville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 48°C. When local altimeter setting not received, use Zanesville altimeter setting and increase LPV DA to 1344 feet, increase LNAV/VNAV DA to 1310 feet, increase all MDA 80 feet and LPV and LNAV/VNAV visibility ⅛ SM, LNAV Cat C/D visibility ¼ SM, and Circling Cat C/D visibility ½ SM.

MISSED APPROACH: Climb to 1480 then climbing left turn to 3400 direct WUMDO.

AWOS-3	INDIANAPOLIS CENTER	GCO	UNICOM	
118.875	124.45 370.9	121.725	123.0 (CTAF)	122.9 L



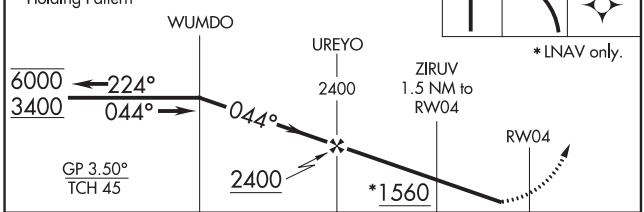
ELEV 979 TDZE 978

4 NM Holding Pattern

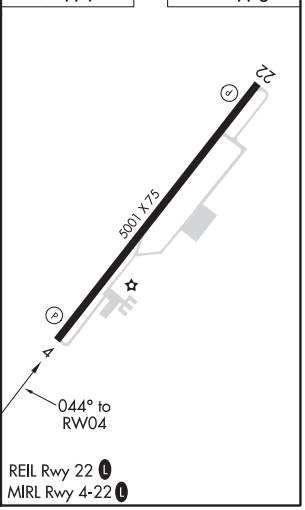
VGSI and RNAV glidepath not coincident (VGSI Angle 3.50/TCH 26).

1480 3400 WUMDO

* LNAV only.



CATEGORY	A	B	C	D
LPV DA	1282-⅞ 304 (400-⅞)			
LNAV/VNAV DA	1248-⅞ 270 (300-⅞)			
LNAV MDA	1400-1 422 (500-1)		1400-1¼ 422 (500-1¼)	
C CIRCLING	1440-1 461 (500-1)	1500-1 521 (600-1)	1780-2¼ 801 (900-2¼)	1780-2½ 801 (900-2½)



REIL Rwy 22 L
MIRL Rwy 4-22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

COSHOCTON, OHIO | AL-5804 (FAA) | 20310

RNAV (GPS) RWY 22
RICHARD DOWNING (I40)

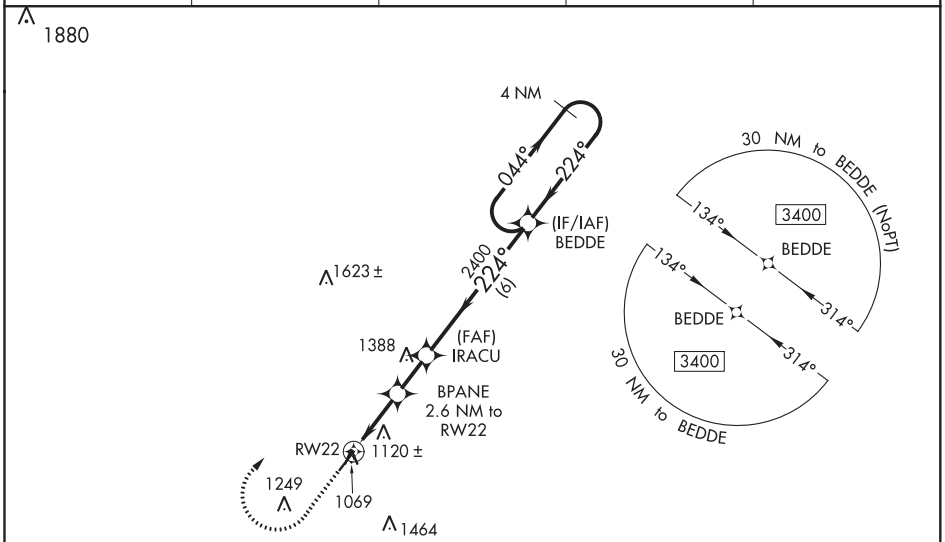
WAAS CH 42838 W22A	APP CRS 224°	Rwy ldg 5001 TDZE 979 Apt Elev 979

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Zanesville altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Zanesville altimeter setting and increase LPV DA to 1291 feet and all visibilities ¼ SM, increase LNAV/VNAV DA to 1501 feet and all visibilities ⅛ SM, increase all MDA 80 feet and LNAV Cat C/D visibility ¼ SM, Circling Cat C/D visibility ½ SM.

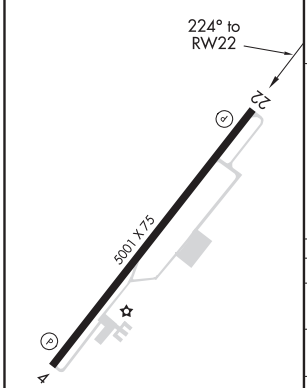
NA

MISSED APPROACH: Climb to 1400 then climbing right turn to 3400 direct BEDDE and hold.

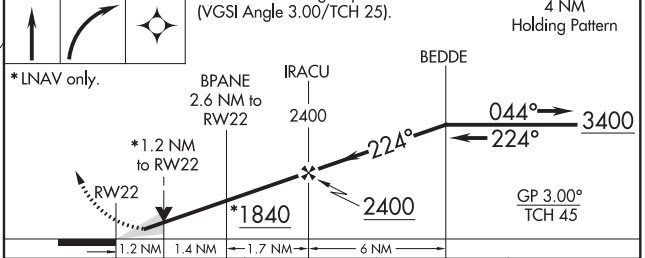
AWOS-3	INDIANAPOLIS CENTER	GCO	UNICOM	
118.875	124.45 370.9	121.725	123.0 (CTAF)	122.9 L



ELEV 979 | TDZE 979



REIL Rwy 22 L
MIRL Rwy 4-22 L



CATEGORY	A	B	C	D
LPV DA	1229-¾ 250 (300-¾)			
LNAV/VNAV DA	1439-1⅝ 460 (500-1⅝)			
LNAV MDA	1380-1 401 (500-1)		1380-1⅛ 401 (500-1⅛)	
C CIRCLING	1440-1 461 (500-1)	1520-1 541 (600-1)	1780-2¼ 801 (900-2¼)	1780-2½ 801 (900-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82739 W04A	APP CRS 047°	Rwy ldg 5505 TDZE 797 Apt Elev 800

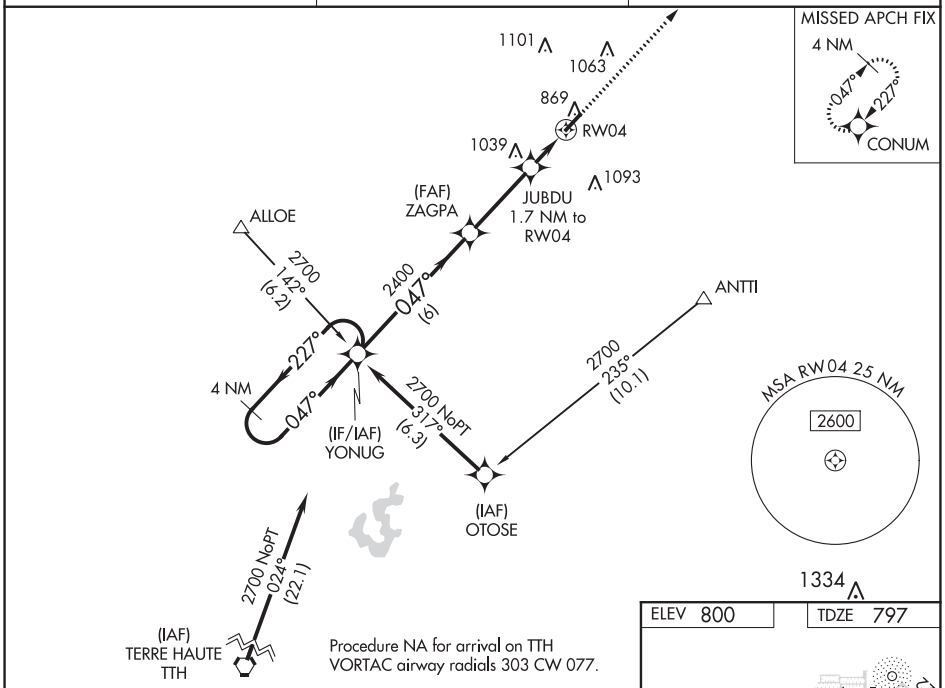
RNAV (GPS) RWY 4
CRAWFORDSVILLE RGNL (CFJ)

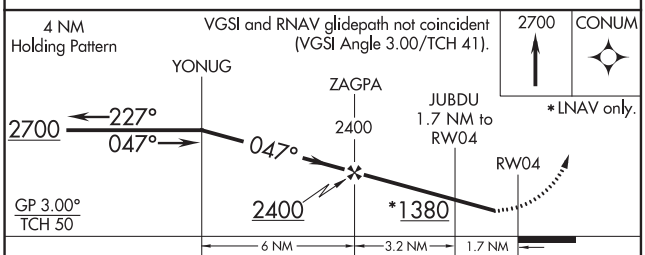
RNP APCH.

Baro-VNAV NA when using Greencastle altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Greencastle altimeter setting: increase LPV DA to 1128 feet and all visibilities ¼ SM, LNAV/VNAV DA to 1118 feet and all visibilities ¼ SM; increase all MDA 60 feet and Circling Cats C and D visibilities ¼ SM. Rwy 4 helicopter visibility reduction below ¾ SM NA.

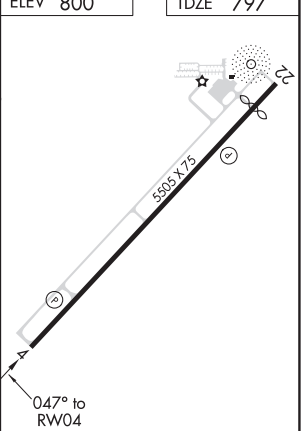
MISSED APPROACH: Climb to 2700 direct CONUM and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
125.65	119.05 317.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1076-⅞ 279 (300-⅞)			
LNAV/VNAV DA	1066-⅞ 269 (300-⅞)			
LNAV MDA	1240-1 443 (500-1)		1240-1⅜ 443 (500-1⅜)	
C CIRCLING	1240-1 440 (500-1)	1260-1 460 (500-1)	1440-1¾ 640 (700-1¾)	1520-2¼ 720 (800-2¼)



REIL Rwys 4 and 22 L
MIRL Rwy 4-22 L

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EC-2, 25 FEB 2021 to 22 APR 2021

CRAWFORDSVILLE, INDIANA | AL-6014 (FAA) | 21056

WAAS CH 60941 W22A	APP CRS 227°	Rwy ldg 5003 TDZE 799 Apt Elev 800

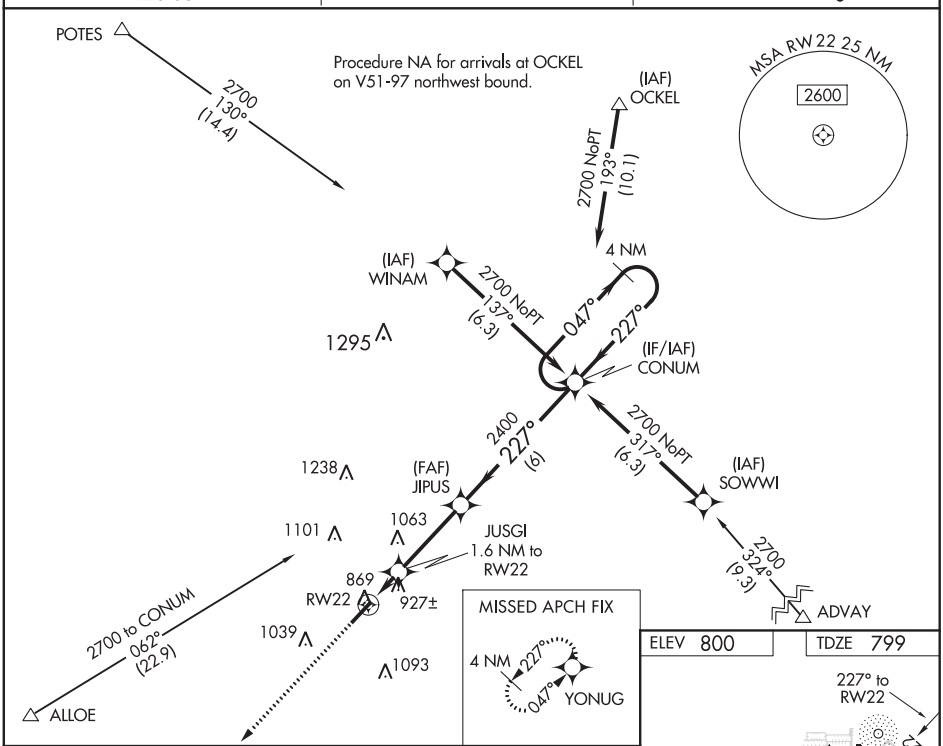
RNAV (GPS) RWY 22
CRAWFORDSVILLE RGNL (CFJ)

RNP APCH.

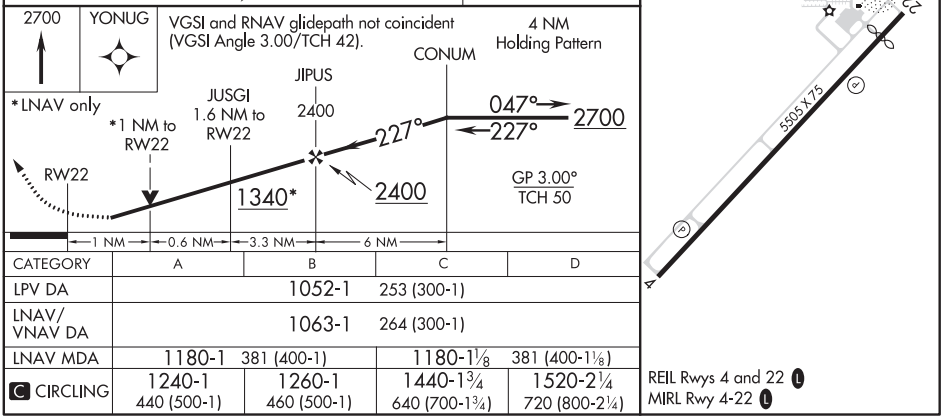
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Baro-VNAV and VDP NA when using Greencastle altimeter setting. When local altimeter setting not received, use Greencastle altimeter setting: increase LPV DA to 1104 feet, LNAV/VNAV DA to 1115 feet; increase all MDA 60 feet and visibility Cats C and D ¼ SM. Rwy 22 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 direct YONUG and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
125.65	119.05 317.8	122.8 (CTAF) L



ELEV 800 | TDZE 799



CATEGORY	A	B	C	D
LPV DA	1052-1 253 (300-1)			
LNAV/ VNAV DA	1063-1 264 (300-1)			
LNAV MDA	1180-1 381 (400-1)		1180-1⅛ 381 (400-1⅛)	
C CIRCLING	1240-1 440 (500-1)	1260-1 460 (500-1)	1440-1¾ 640 (700-1¾)	1520-2¼ 720 (800-2¼)

REIL Rwys 4 and 22 L
MIRL Rwy 4-22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

NDB CFJ	APP CRS	Rwy ldg	5505
388	044°	TDZE	797
		Apt Elev	800

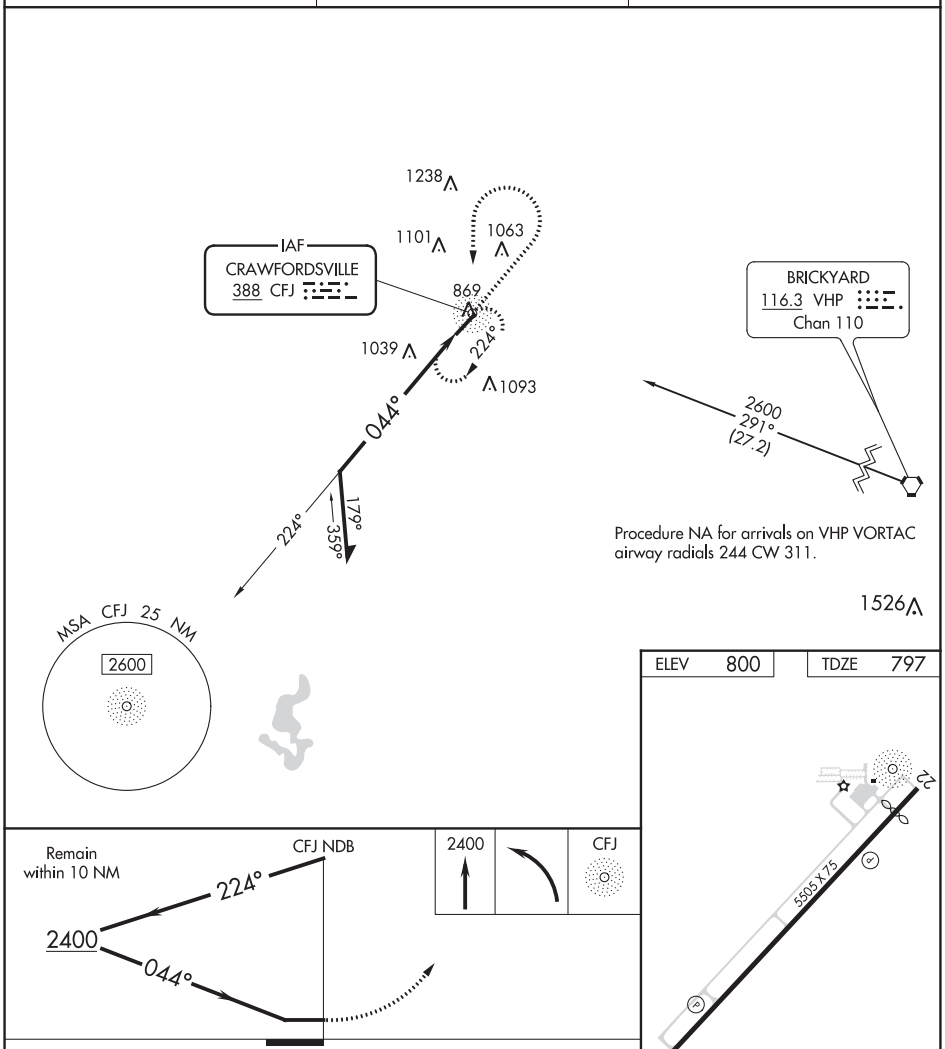
NDB RWY 4
CRAWFORDSVILLE RGNL (CFJ)

When local altimeter setting not received, use Greencastle altimeter setting: increase all MDA 60 feet and visibility Cats C and D ¼ SM. Rwy 4 helicopter visibility reduction below ¾ SM NA.

NA

MISSED APPROACH: Climb to 2400 then left turn direct CFJ NDB and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
125.65	119.05 317.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-04	1420-1 623 (700-1)		1420-1¾ 623 (700-1¾)	
C CIRCLING	1420-1 620 (700-1)		1440-1¾ 640 (700-1¾)	1520-2¼ 720 (800-2¼)

REIL Rwys 4 and 22 L
MIRL Rwy 4-22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO | AL-6307 (FAA) | 19171

VOR or GPS RWY 21
DAYTON-PHILLIPSBURG (3I7)

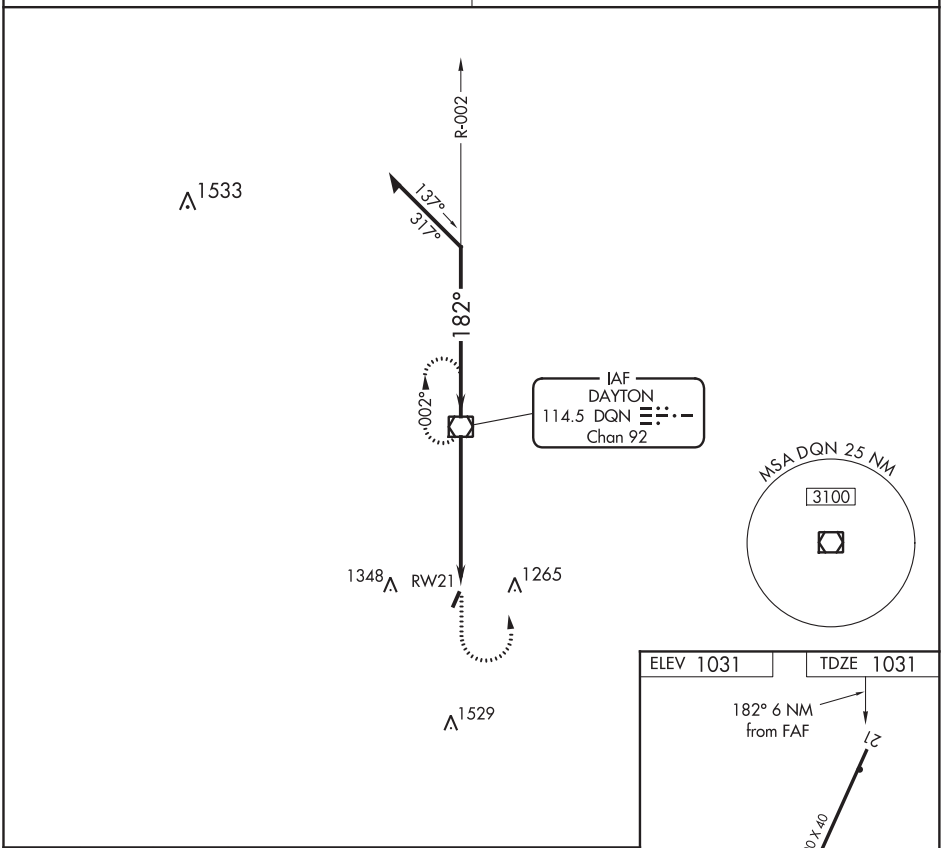
VOR/DME DQN 114.5 Chan 92	APP CRS 182°	Rwy ldg 3000 TDZE 1031 Apt Elev 1031

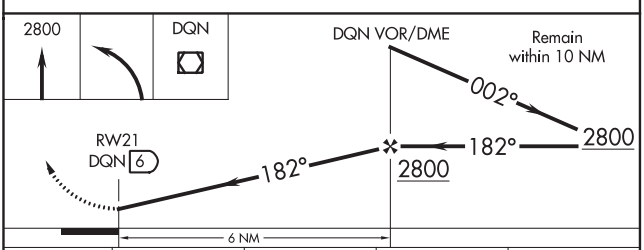
Use Dayton Intl altimeter setting. Circling Rwy 3 NA at night. Rwy 3 helicopter visibility reduction below 1 SM NA.

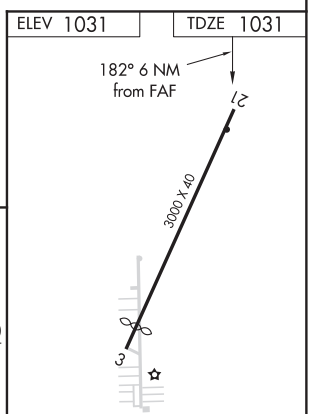
NA

MISSED APPROACH: Climb to 2800 then left turn direct DQN VOR/DME and hold.

COLUMBUS APP CON	UNICOM
118.425 352.05	122.7 (CTAF)







LIRL Rwy 3-21
REIL Rwys 3 and 21

CATEGORY	A	B	C	D
S-21	1420-1 389 (400-1)			NA
CIRCLING	1540-1 509 (600-1)		1540-1½ 509 (600-1½)	NA

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

DAYTON, OHIO
Amdt 3B 19JUL18

39°55'N-84°24'W

DAYTON-PHILLIPSBURG (3I7)
VOR or GPS RWY 21

EC-2, 25 FEB 2021 to 22 APR 2021

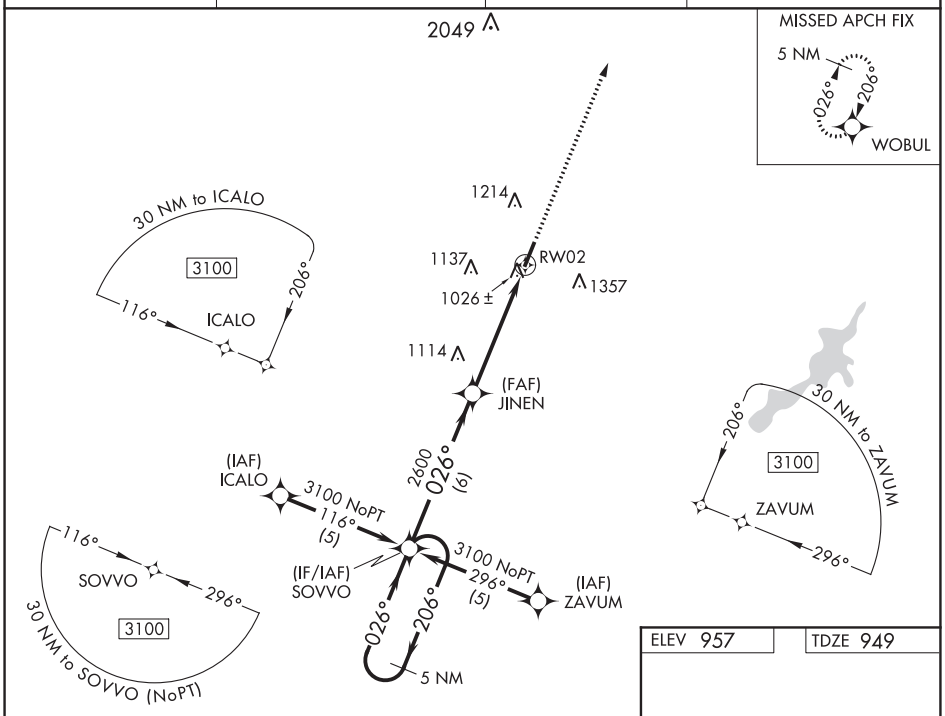
RNAV (GPS) RWY 2
DAYTON-WRIGHT BROTHERS (MGY)

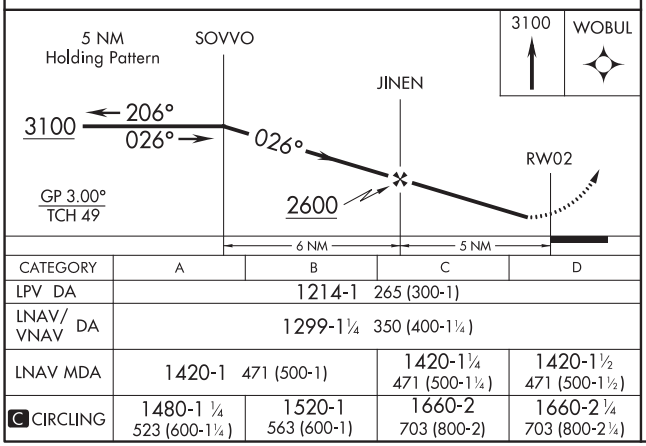
WAAS CH 45801 W02A	APP CRS 026°	Rwy ldg 5000 TDZE 949 Apt Elev 957

T A Baro-VNAV NA when using James M Cox Dayton Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction for helicopters NA. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase all DAs/MDAs 60 feet and Circling Cat C/D visibility ¼ SM.

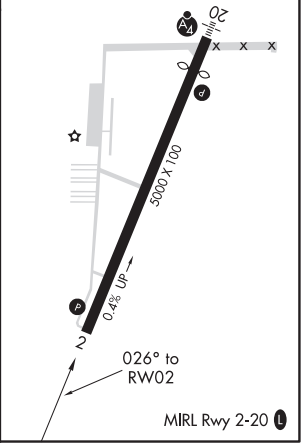
MISSED APPROACH: Climb to 3100 direct WOBUL and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	118.85 269.275	119.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1214-1 265 (300-1)			
LNAV/VNAV DA	1299-1¼ 350 (400-1¼)			
LNAV MDA	1420-1 471 (500-1)		1420-1¼ 471 (500-1¼)	1420-1½ 471 (500-1½)
C CIRCLING	1480-1 ¼ 523 (600-1¼)	1520-1 563 (600-1)	1660-2 703 (800-2)	1660-2¼ 703 (800-2¼)



DAYTON, OHIO

AL-5042 (FAA)

21056

RNAV (GPS) RWY 20
DAYTON-WRIGHT BROTHERS (MGY)

WAAS CH 93601 W20A	APP CRS 206°	Rwy ldg 4410 TDZE 955 Apt Elev 957

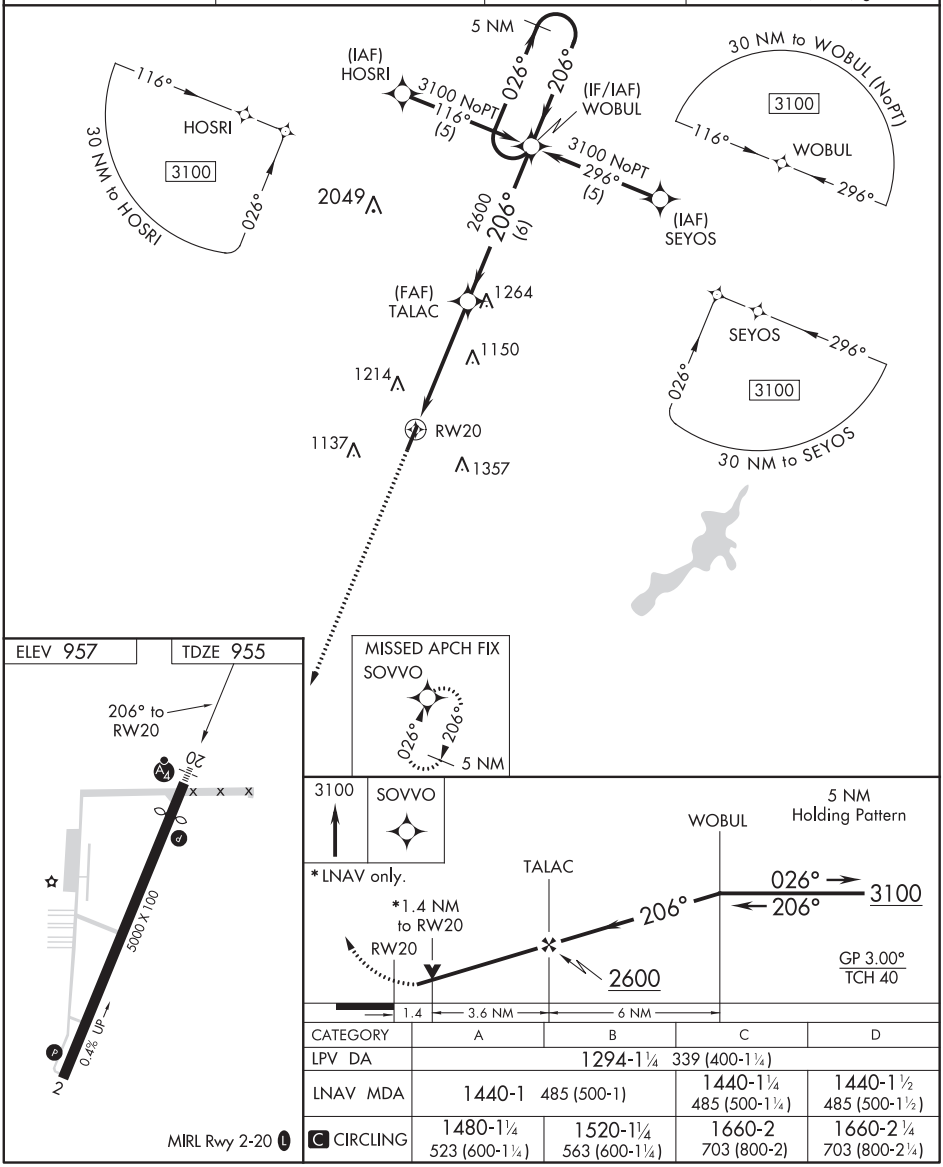
RNP APCH.

Inoperative table does not apply. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase all DAs/MDAs 60 feet and Circling Cat C/D visibility ¼ SM. Rwy 20 helicopter visibility reduction below ¾ SM NA. VDP NA when using James M Cox Dayton Intl altimeter setting.

MALS

MISSED APPROACH: Climb to 3100 direct SOVVO and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	118.85 269.275	119.4	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1294-1¼ 339 (400-1¼)			
LNAV MDA	1440-1 485 (500-1)		1440-1¼ 485 (500-1¼)	1440-1½ 485 (500-1½)
C CIRCLING	1480-1¼ 523 (600-1¼)	1520-1¼ 563 (600-1¼)	1660-2 703 (800-2)	1660-2¼ 703 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC RWY 20
DAYTON-WRIGHT BROTHERS (MGY)

LOC/DME I-MGY	APP CRS	Rwy ldg	4410
109.5	206°	TDZE	955
Chan 32		Apt Elev	957

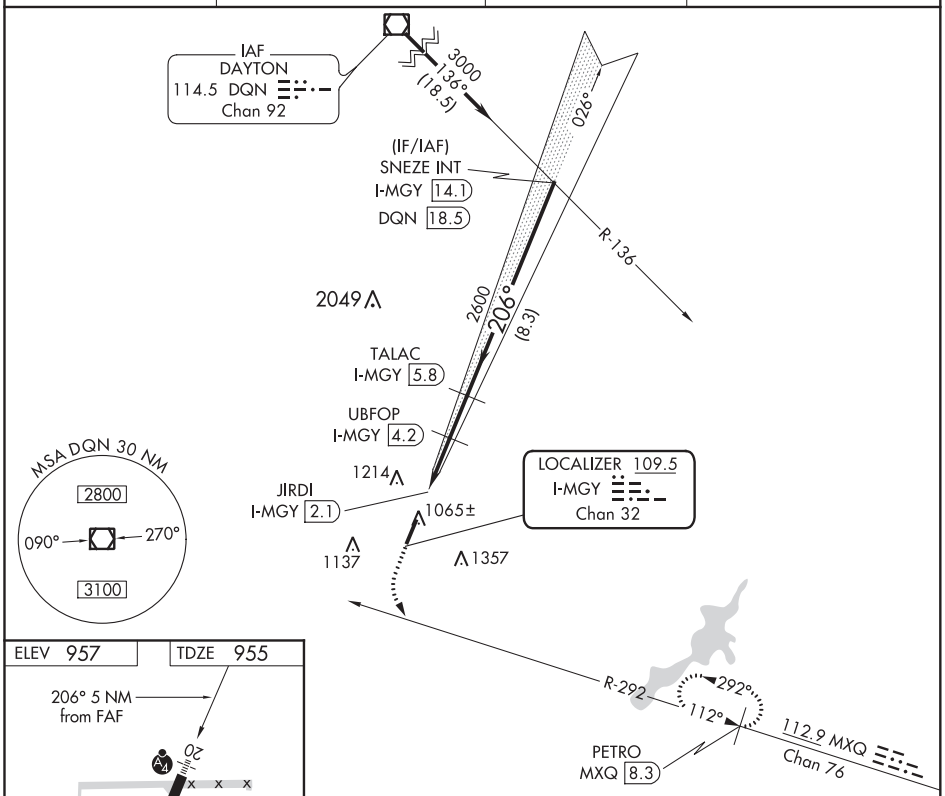
DME required.

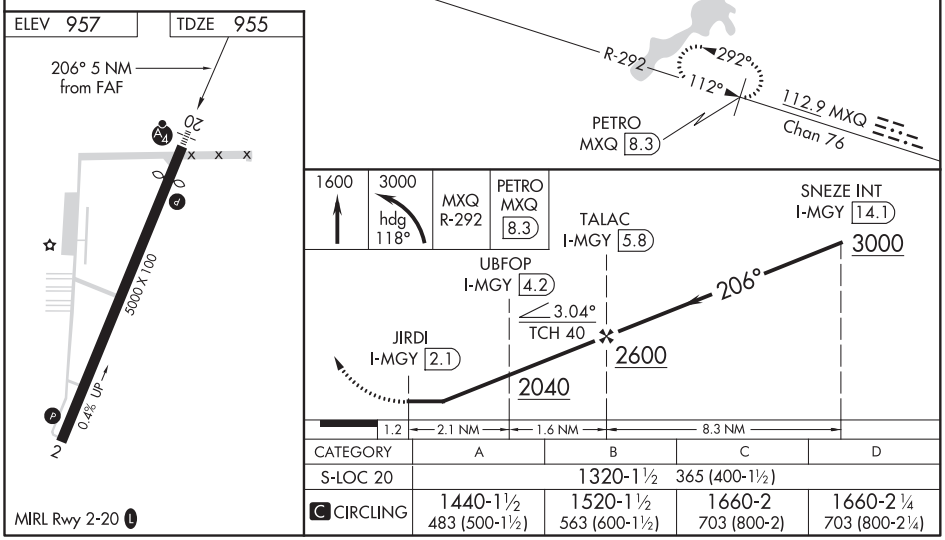
Rwy 20 helicopter visibility reduction below ¾ SM NA.
NA Inop table does not apply.

MALS

MISSED APPROACH: Climb to 1600 then climbing left turn to 3000 on heading 118° and MXQ VOR/DME R-292 to PETRO MXQ 8.3 DME and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	118.85 269.275	119.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-LOC 20	1320-1½ 365 (400-1½)			
C CIRCLING	1440-1½ 483 (500-1½)	1520-1½ 563 (600-1½)	1660-2 703 (800-2)	1660-2¼ 703 (800-2¼)

MIRL Rwy 2-20 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

AL-5042 (FAA)

21056

NDB-A

DAYTON-WRIGHT BROTHERS (MGY)

LOM MW	APP CRS	Rwy ldg	N/A
223	085°	TDZE	N/A
		Apt Elev	957

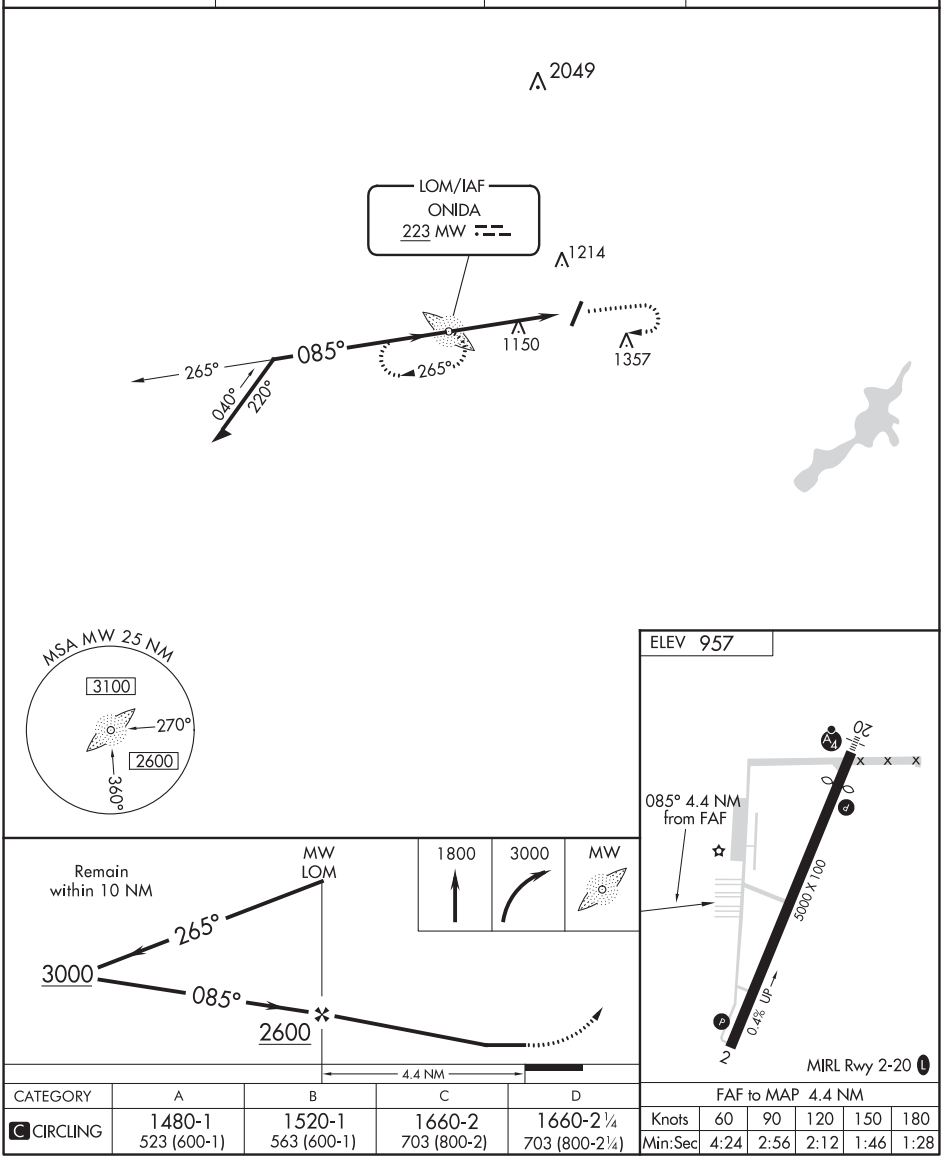
RADAR required for procedure entry.

When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase all MDAs 60 feet, and Cat C/D visibilities ¼ SM.

NA

MISSED APPROACH: Climb to 1800 then climbing right turn to 3000 direct MW LOM and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	118.85 269.275	119.4	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1480-1 523 (600-1)	1520-1 563 (600-1)	1660-2 703 (800-2)	1660-2¼ 703 (800-2¼)

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 97702 W07A	APP CRS 068°	Rwy ldg 5004 TDZE 932 Apt Elev 949

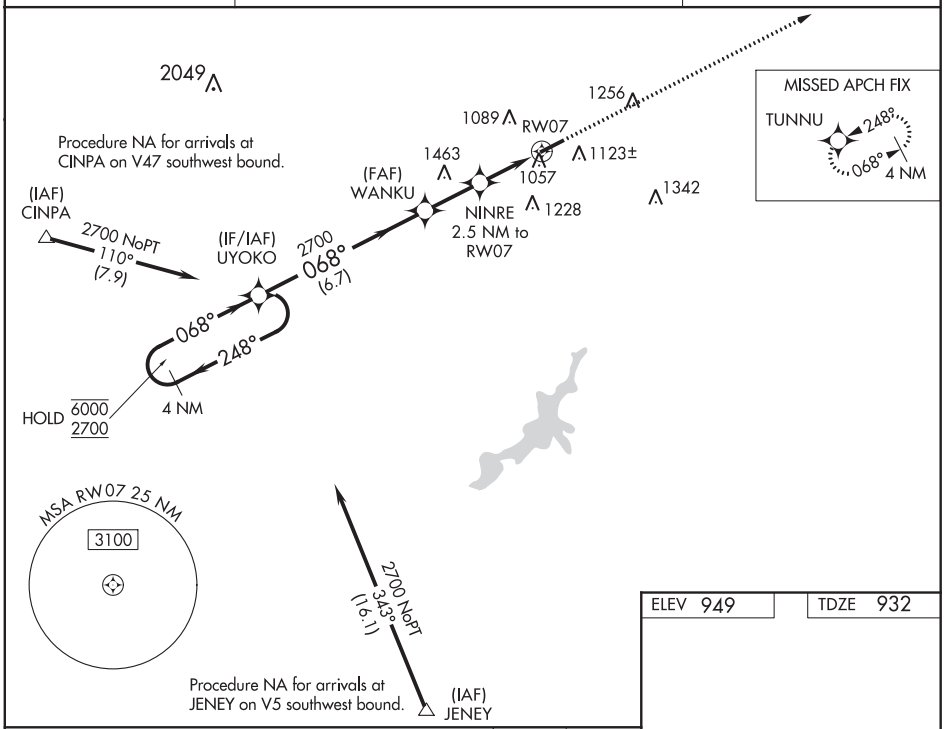
RNAV (GPS) RWY 7
GREENE COUNTY-LEWIS A JACKSON RGNL (I19)

RNP APCH.

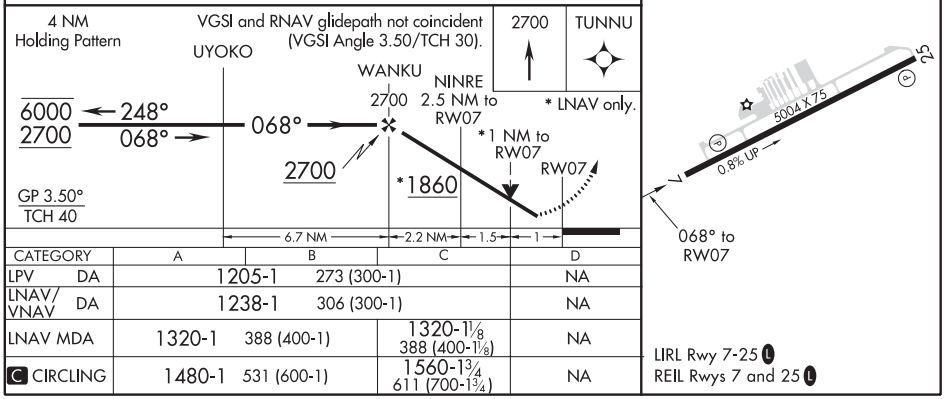
T A NA When local altimeter setting not received, use Dayton-Wright Brothers altimeter setting: increase LPV DA to 1235 feet; increase LNAV/VNAV DA to 1268 feet; increase all MDA 40 feet and LNAV visibility Cat C ⅛ SM. Rwy 7 helicopter visibility reduction below ¾ NM NA.
VDP and Baro-VNAV NA when using Dayton-Wright Brothers altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 2700 direct TUNNU and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.525	118.85 269.275	122.7 (CTAF) L



ELEV 949 TDZE 932



CATEGORY	A	B	C	D
LPV DA	1205-1 273 (300-1)			NA
LNAV/VNAV DA	1238-1 306 (300-1)			NA
LNAV MDA	1320-1 388 (400-1)		1320-1⅛ 388 (400-1⅛)	NA
C CIRCLING	1480-1 531 (600-1)		1560-1¾ 611 (700-1¾)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO | AL-5879 (FAA) | 19059

WAAS CH 56602 W25A	APP CRS 248°	Rwy ldg 5004 TDZE 949 Apt Elev 949

RNAV (GPS) RWY 25
GREENE COUNTY-LEWIS A JACKSON RGNL (I19)

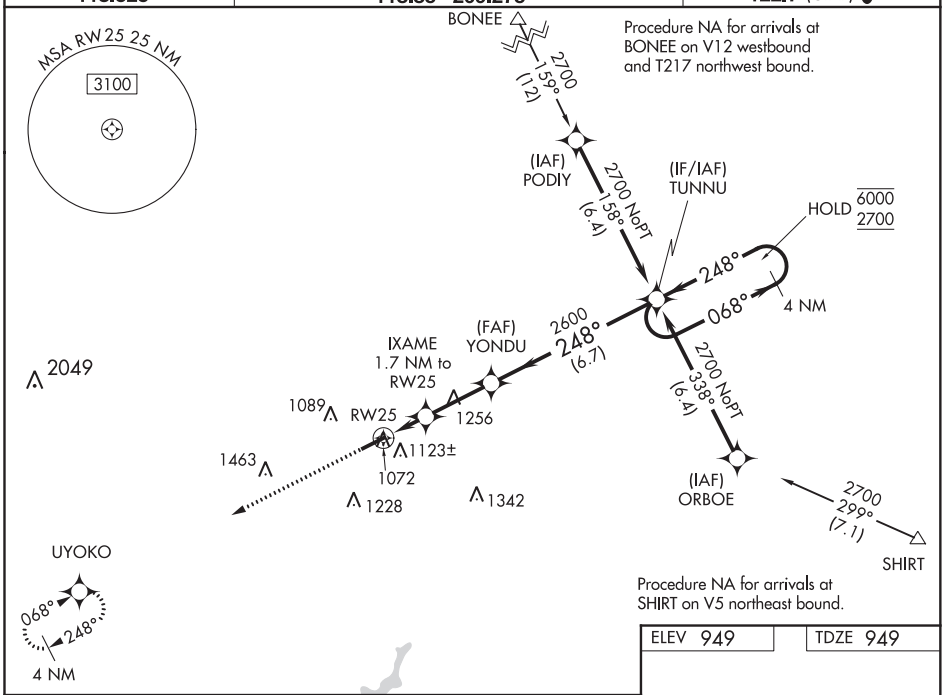
RNP APCH.

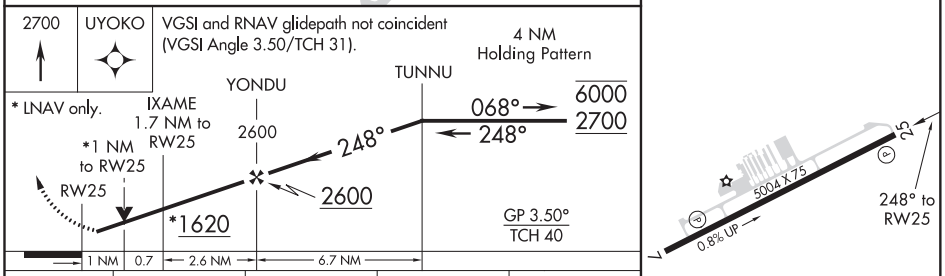
T A NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 25 helicopter visibility reduction below ¾ SM NA. VDP and Baro-VNAV NA when using Dayton-Wright Brothers altimeter setting. When local altimeter setting not received, use Dayton-Wright Brothers altimeter setting: increase LPV DA to 1249 feet; increase LNAV/VNAV DA to 1252 feet; increase all MDA 40 feet and LNAV visibility Cat C ⅛ SM.

MISSED APPROACH: Climb to 2700 direct UYOKO and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.525	118.85 269.275	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1219-1 270 (300-1)			NA
LNAV/VNAV DA	1222-1 273 (300-1)			NA
LNAV MDA	1340-1 391 (400-1)		1340-1⅛ 391 (400-1⅛)	NA
C CIRCLING	1480-1 531 (600-1)		1560-1¾ 611 (700-1¾)	NA

LIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

DAYTON, OHIO
Amdt 1 03JAN19

39°41′N-84°00′W

GREENE COUNTY-LEWIS A JACKSON RGNL (I19)
RNAV (GPS) RWY 25

EC-2, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 6L
JAMES M COX DAYTON INTL (DAY)

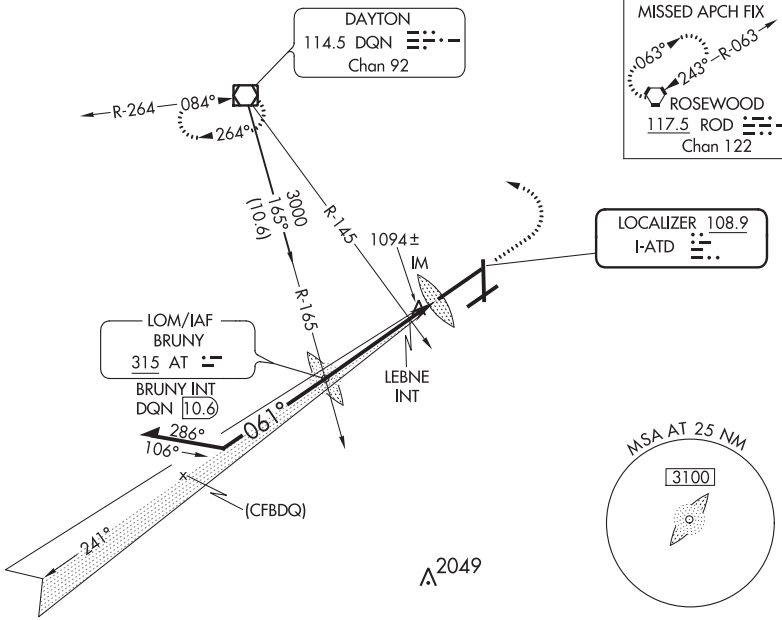
LOC I-ATD	APP CRS	Rwy ldg / TDZE / Apt Elev
108.9	061°	10900 / 998 / 1009

Simultaneous approach authorized.
For inop ALSF-2, increase S-LOC 6L Cat C/D visibility to 1⅜ mile.

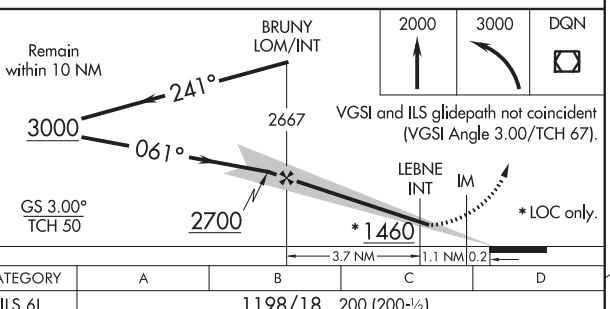
ALSF-2

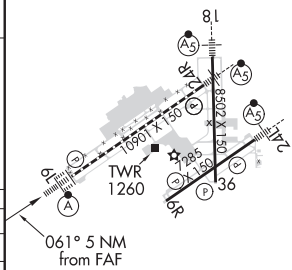
MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct DQN VOR/DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009 D TDZE 998





HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

CATEGORY	A	B	C	D
S-ILS 6L	1198/18 200 (200-½)			
S-LOC 6L	1460/24 462 (500-½)		1460/50 462 (500-1)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)
LEBNE FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 6L	1380/24 382 (400-½)		1380/35 382 (400-⅝)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

AL-107 (FAA)

20142

ILS or LOC RWY 18
JAMES M COX DAYTON INTL (DAY)

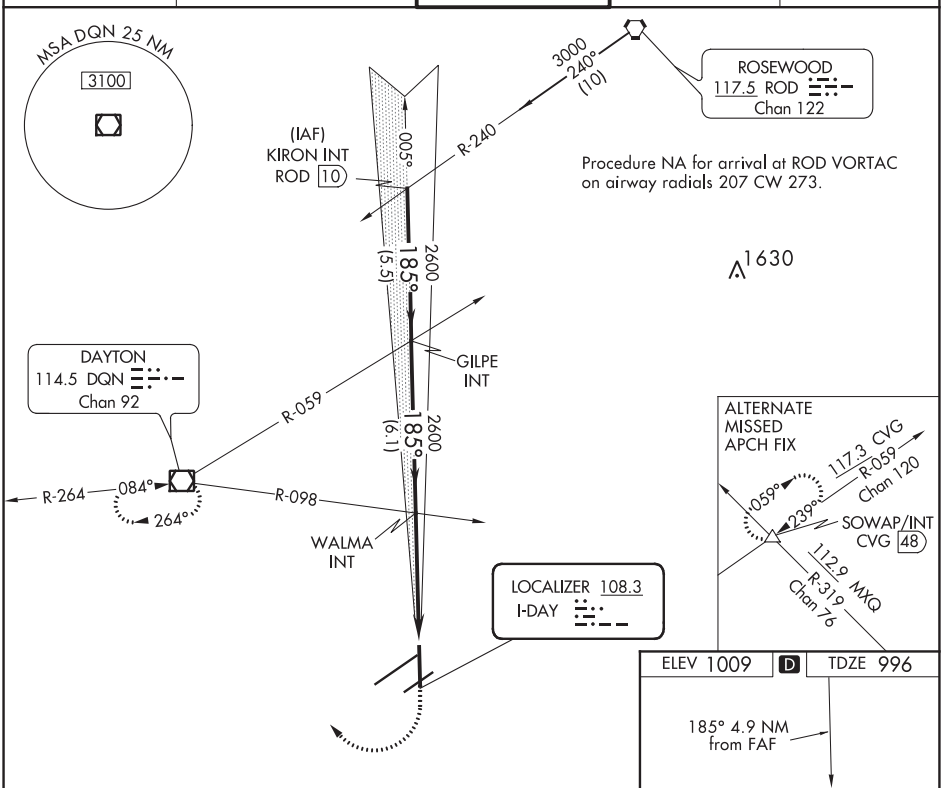
LOC I-DAY	APP CRS	Rwy ldg / TDZE / Apt Elev
108.3	185°	8502 / 996 / 1009

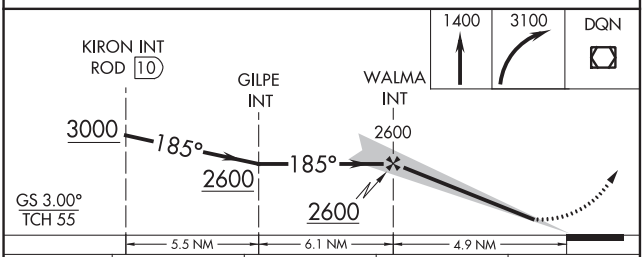
For inop ALS, increase S-LOC 18 Cat C/D visibility to RVR 6000.
** RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climbing to 1400 then climbing right turn to 3100 direct DQN VOR/DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75

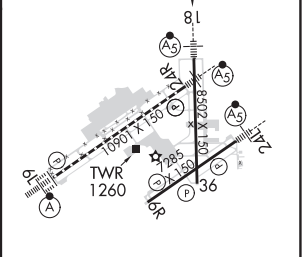




CATEGORY	A	B	C	D
S-ILS 18 **	1196/24 200 (200-½)			
S-LOC 18	1400/24 404 (400-½)		1400/40 404 (400-¾)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

ELEV 1009 | D | TDZE 996

185° 4.9 NM from FAF



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-EGK 110.3 Chan 40	APP CRS 241°	Rwy ldg 7001 TDZE 1007 Apt Elev 1009

ILS or LOC RWY 24L
JAMES M COX DAYTON INTL (DAY)

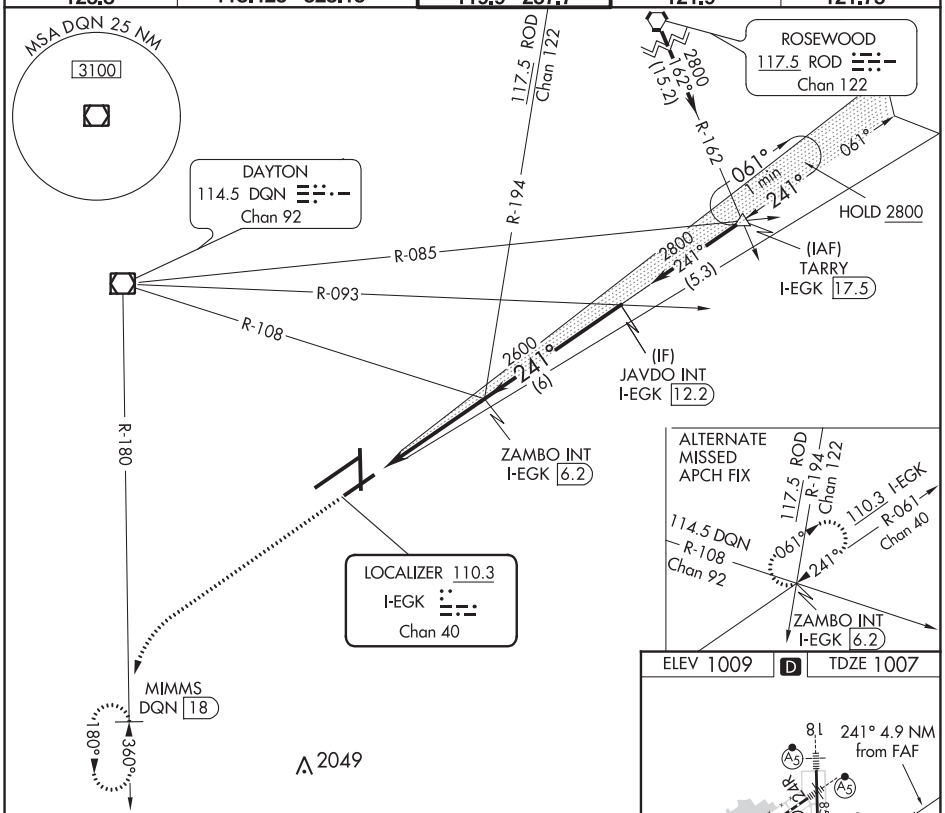
DME required.

T Simultaneous approach authorized.
RVR 1800 authorized with use of FD or AP or HUD to DA.

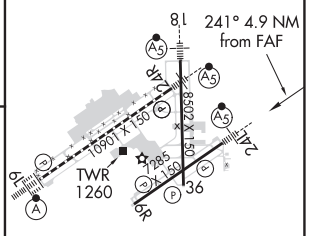
MALSR

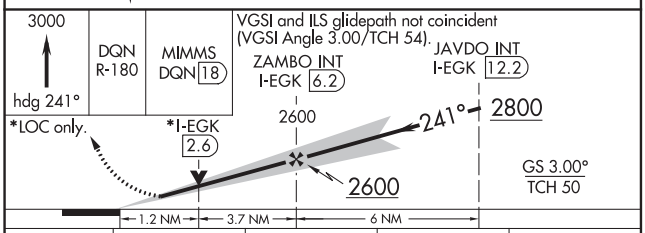
MISSED APPROACH: Climb to 3000 on heading 241° and DQN R-180 to MIMMS/DQN 18 DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009	D	TDZE 1007





HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

CATEGORY	A	B	C	D
S-ILS 24L #	1207/24 200 (200-½)			
S-LOC 24L	1440/24 433 (500-½)		1440/40 433 (500-¾)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO — AL-107 (FAA) — 21056

ILS or LOC RWY 24R
JAMES M COX DAYTON INTL (DAY)

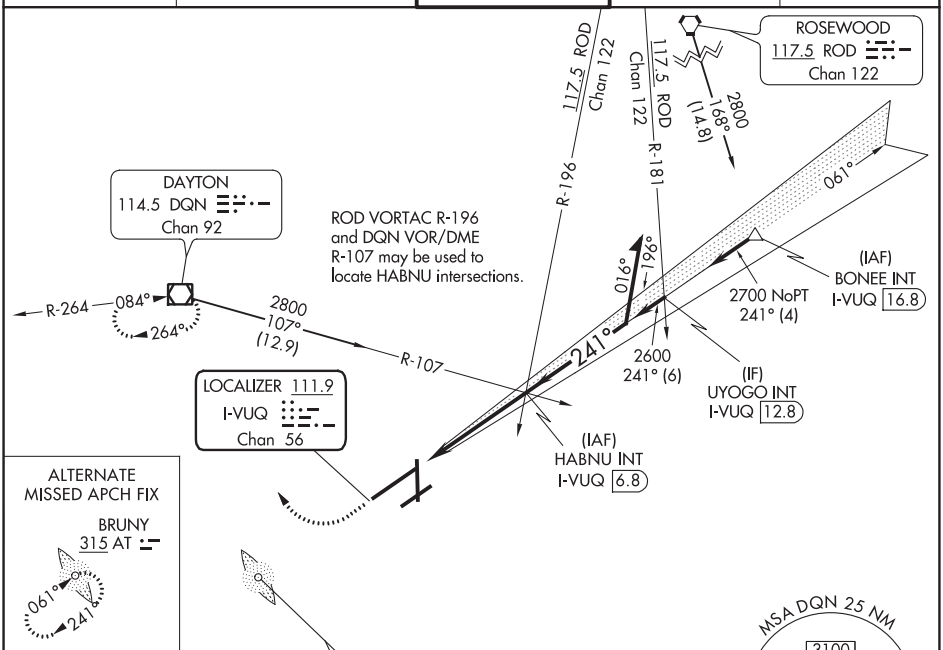
LOC/DME I-VUQ 111.9 Chan 56	APP CRS 241°	Rwy ldg 10900 TDZE 997 Apt Elev 1009

Simultaneous approach authorized.
For inop MALSR, increase S-LOC 24R Cat C/D visibility to RVR 6000.

MALSR A5

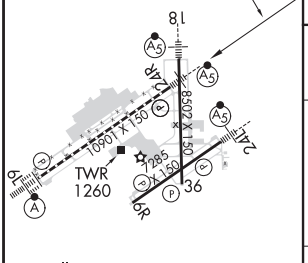
MISSED APPROACH: Climb to 3000 then right turn direct DQN VOR/DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



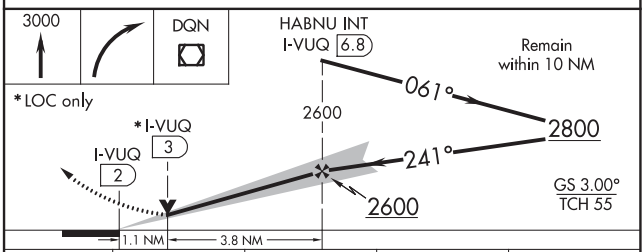
ELEV 1009 | D | TDZE 997

241° 4.9 NM from FAF



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



CATEGORY	A	B	C	D
S-ILS 24R	1203/24	206 (200-½)		
S-LOC 24R	1400/24	403 (400-½)	1400/40	403 (400-¾)
C CIRCLING	1580-1	571 (600-1)	1580-1½ 571 (600-1½)	1640-2 631 (700-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-ATD	APP CRS	Rwy ldg / TDZE / Apt Elev
108.9	061°	10900 / 998 / 1009

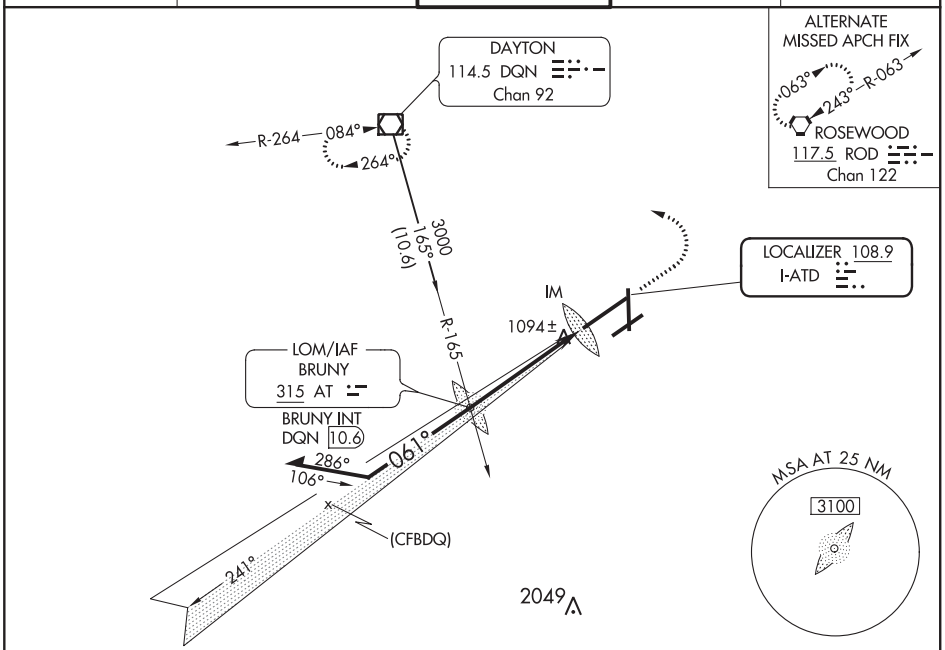
ILS RWY 6L (CAT II & III)
JAMES M COX DAYTON INTL (DAY)

Simultaneous approach authorized.
CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

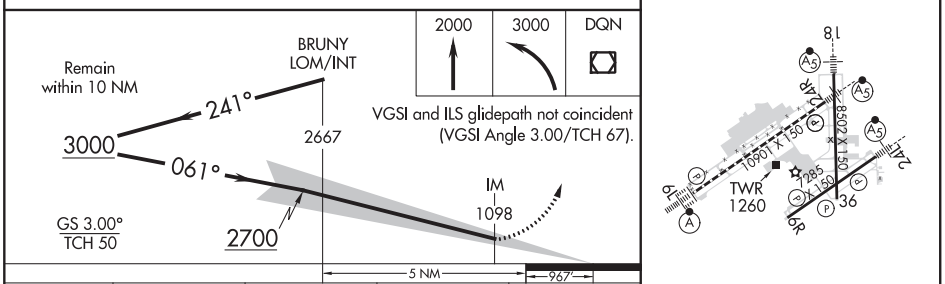
ALSF-2

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct DQN VOR/DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009	D	TDZE 998



CATEGORY	A	B	C	D
S-ILS 6L	CAT II RA 99/12 100 DA 1098			
S-ILS 6L	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO AL-107 (FAA-O) 20254

APP CRS	Rwy ldg	10900
061°	TDZE	998
	Apt Elev	1009

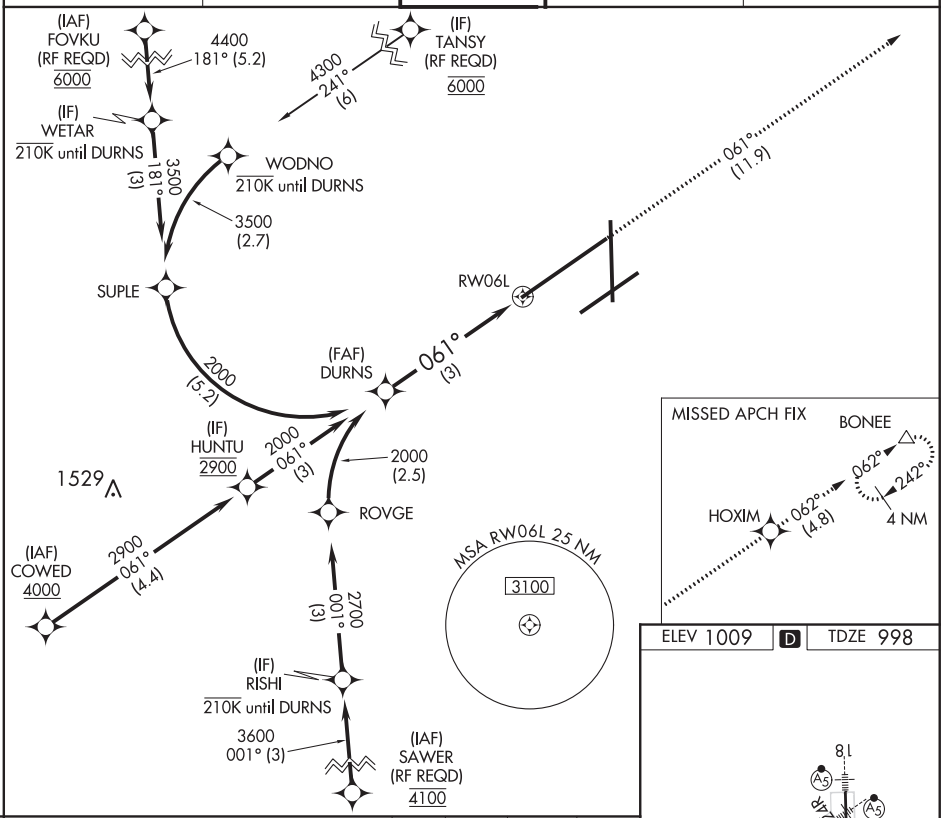
RNAV (RNP) Y RWY 6L
JAMES M COX DAYTON INTL (DAY)

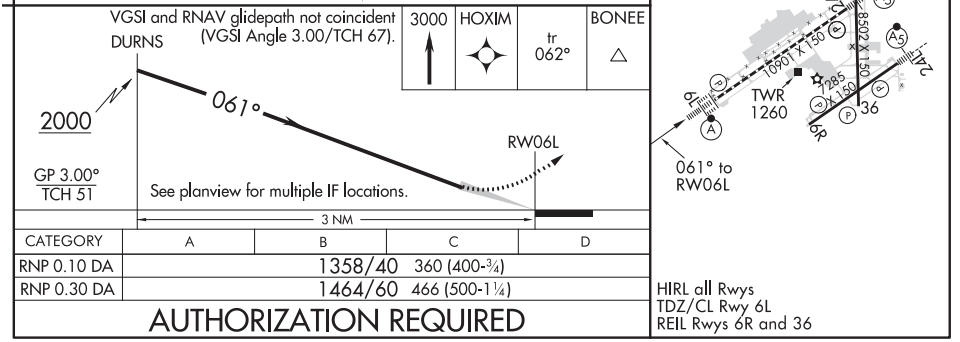
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -19°C (-2°F) or above 54°C (130°F). For inop ALS, increase RNP 0.10 all Cats visibility to RVR 6000. For inop ALS, increase RNP 0.30 all Cats visibility to 1 5/8.

ALSF-2

MISSED APPROACH: Climb to 3000 on the RNAV missed approach route to BONEE and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75





CATEGORY	A	B	C	D
RNP 0.10 DA	1358/40 360 (400-¾)			
RNP 0.30 DA	1464/60 466 (500-1¼)			

AUTHORIZATION REQUIRED

HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10900
241°	TDZE	997
	Apt Elev	1009

RNAV (RNP) Y RWY 24R
JAMES M COX DAYTON INTL (DAY)

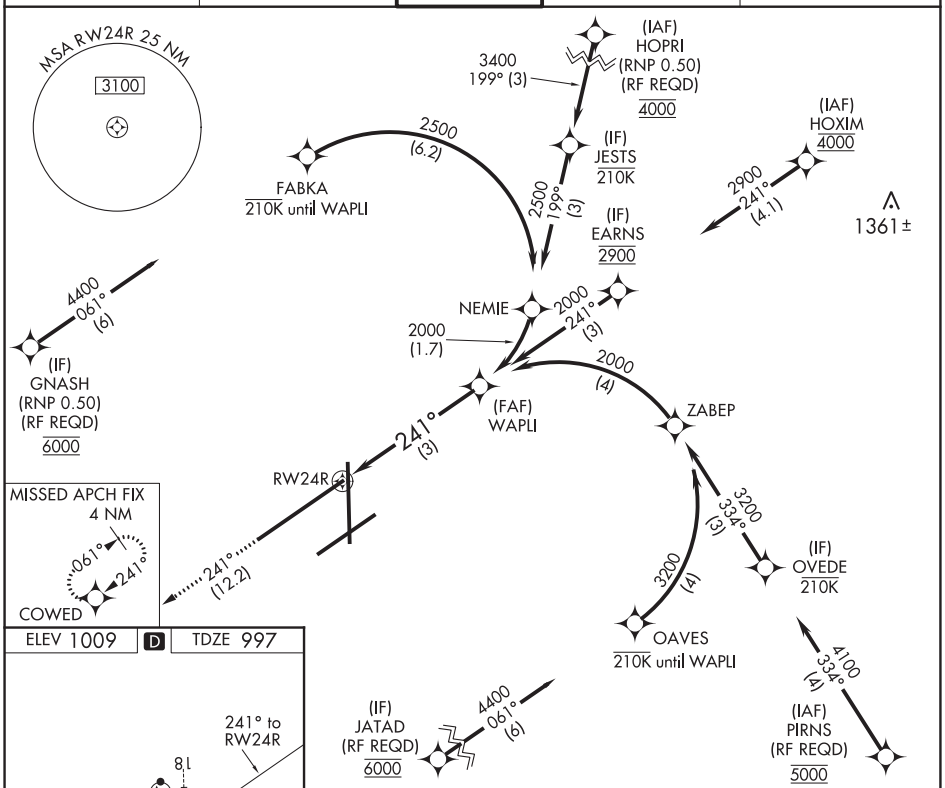
RNP AR APCH.

For inop ALS, increase RNP 0.10 all Cats visibility to RVR 5500 and RNP 0.30 all Cats visibility to 1⅜ SM. For uncompensated Baro-VNAV systems, procedure NA below -19°C or above 54°C.

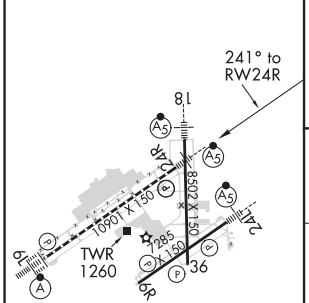
MALSR

MISSED APPROACH: Climb to 3000 on track 241° COWED and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



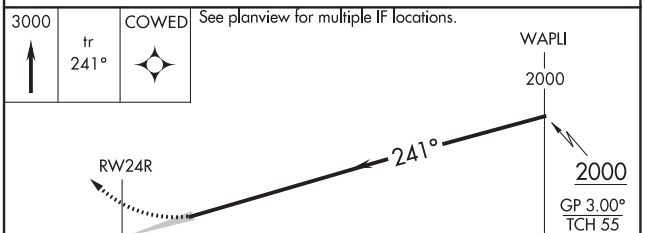
ELEV 1009	D	TDZE 997



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

3000	tr 241°	COWED

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.10 DA	1334/35 337 (400-⅝)			
RNP 0.30 DA	1418/50 421 (500-1)			

AUTHORIZATION REQUIRED

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EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO — AL-107 (FAA) — 20142

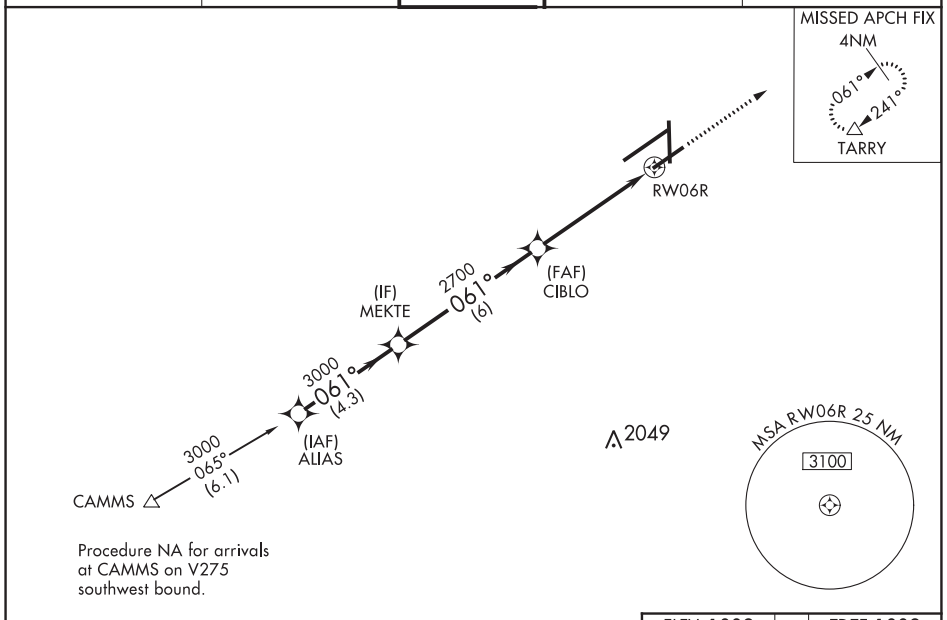
WAAS CH 90414 W06B	APP CRS 061°	Rwy ldg 7001 TDZE 1009 Apt Elev 1009

RNAV (GPS) RWY 6R
JAMES M COX DAYTON INTL (DAY)

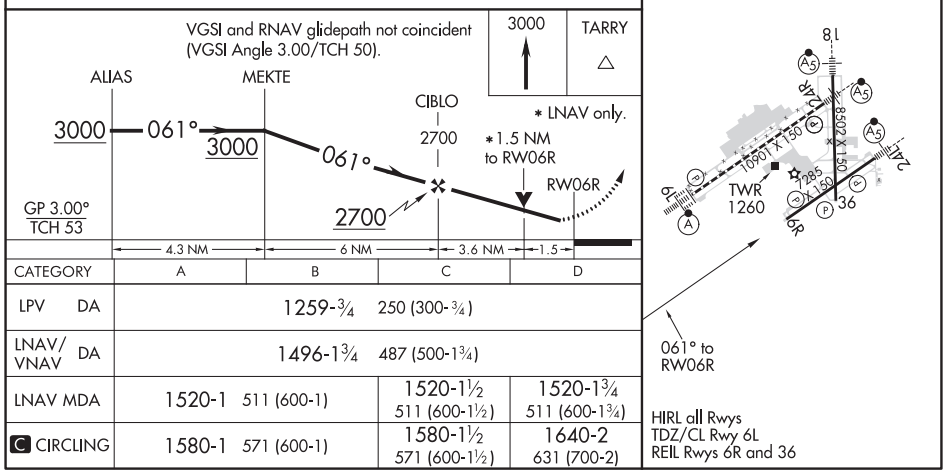
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-4°F) or above 54°C (130°F). Rwy 6R helicopter visibility reduction below ¾ SM NA. Simultaneous approach authorized. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations.

MISSED APPROACH: Climb to 3000 direct TARRY and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009 | D | TDZE 1009



CATEGORY	A	B	C	D
LPV DA	1259-¾ 250 (300-¾)			
LNAV/VNAV DA	1496-1¾ 487 (500-1¾)			
LNAV MDA	1520-1 511 (600-1)		1520-1½ 511 (600-1½)	1520-1¾ 511 (600-1¾)
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

EC-2, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS) RWY 18
JAMES M COX DAYTON INTL (DAY)

WAAS CH 86914 W18A	APP CRS 185°	Rwy ldg 8502 TDZE 996 Apt Elev 1009

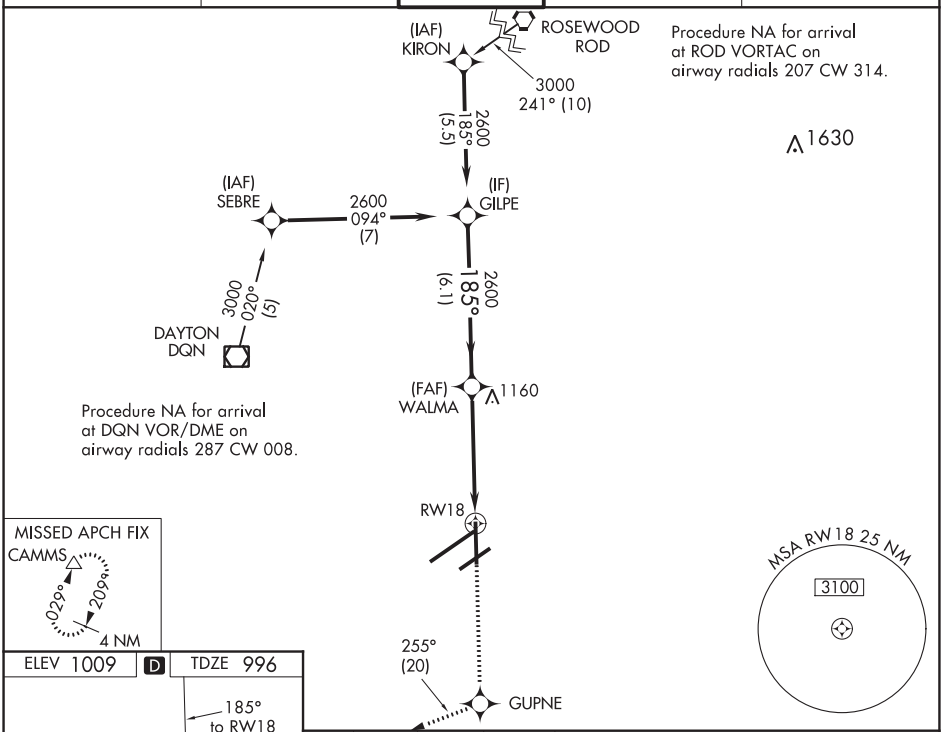
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

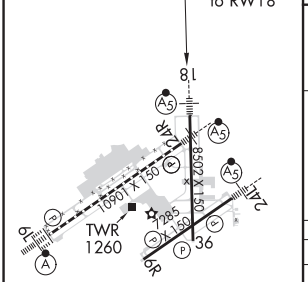
MALSR

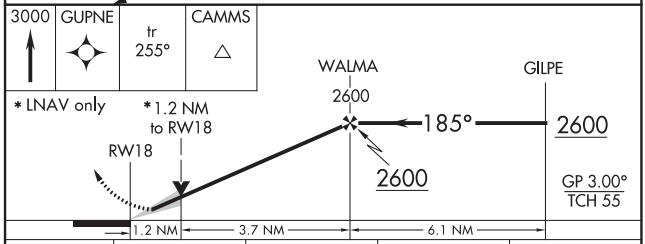
MISSED APPROACH: Climb to 3000 direct GUPNE and track 255° to CAMMS and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009 | D | TDZE 996





CATEGORY	A	B	C	D
LPV DA **	1196/24 200 (200-½)			
LNAV/VNAV DA	1274/24 278 (300-½)			
LNAV MDA	1420/24 424 (500-½)		1420/40 424 (500-¾)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO | AL-107 (FAA) | 20142

WAAS CH 50414 W24A	APP CRS 241°	Rwy ldg 7001 TDZE 1007 Apt Elev 1009

RNAV (GPS) RWY 24L
JAMES M COX DAYTON INTL (DAY)

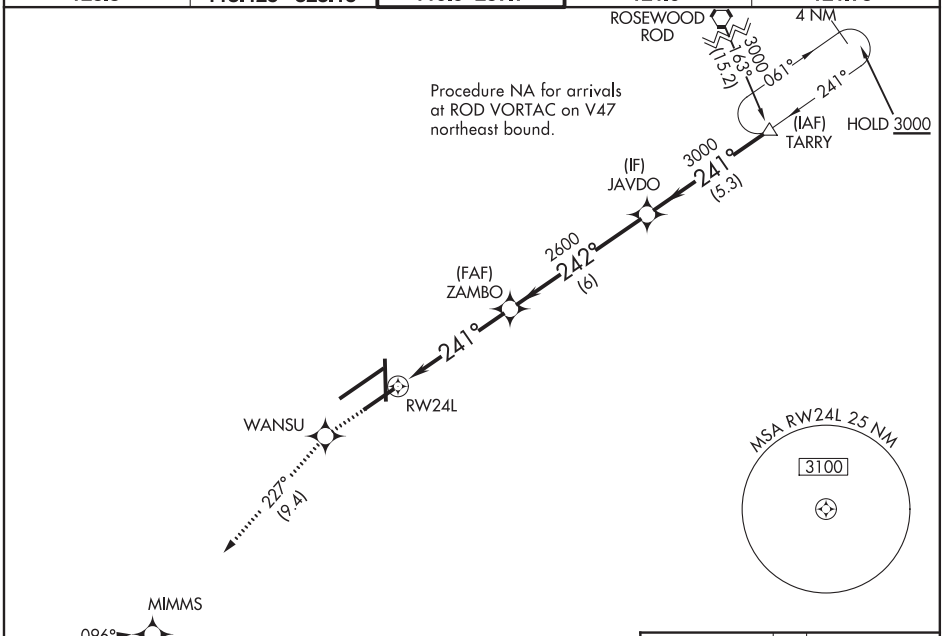
RNP APCH.

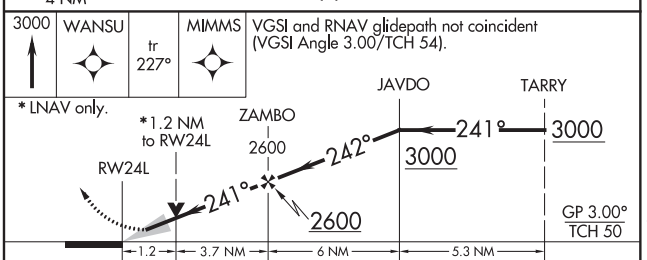
Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. Use of FD or AP required during simultaneous operations. For inop ALS, increase LNAV/VNAV all Cats RVR to 4500. **RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 3000 direct WANSU and on track 227° to MIMMS and hold.

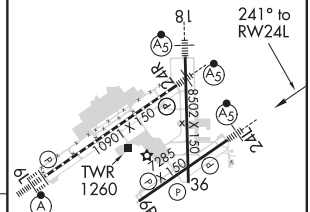
ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75





CATEGORY	A	B	C	D
LPV DA**	1207/24 200 (200-½)			
LNAV/VNAV DA	1327/24 320 (400-½)			
LNAV MDA	1440/24 433 (500-½)		1440/40 433 (500-¾)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

ELEV 1009 | D | TDZE 1007



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

DAYTON, OHIO
Amdt 2 03JAN19

39°54'N-84°13'W

JAMES M COX DAYTON INTL (DAY)
RNAV (GPS) RWY 24L

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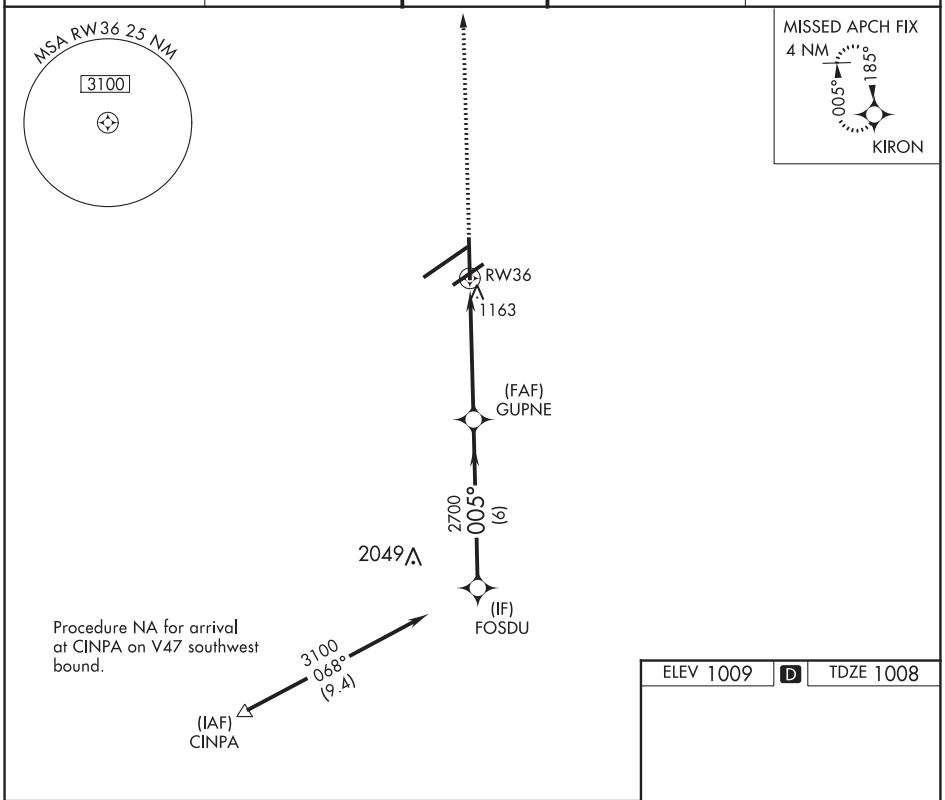
RNAV (GPS) RWY 36
JAMES M COX DAYTON INTL (DAY)

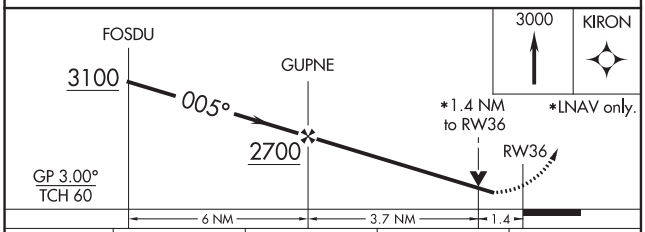
APP CRS	Rwy ldg	8502
005°	TDZE	1008
	Apt Elev	1009

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Rwy 36 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct to KIRON and hold.

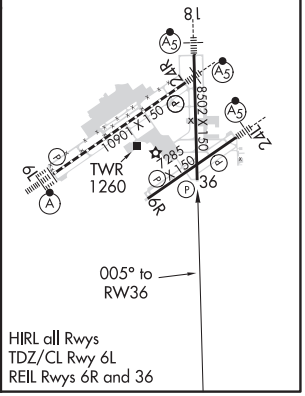
ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75





CATEGORY	A	B	C	D
LNAV/VNAV DA	1449-1½ 441 (500-1½)			
LNAV MDA	1500-1 492 (500-1)		1500-1¼ 492 (500-1¼)	1500-1½ 492 (500-1½)
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

ELEV 1009 | D | TDZE 1008



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

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DAYTON, OHIO

AL-107 (FAA)

20142

RNAV (GPS) Z RWY 6L
JAMES M COX DAYTON INTL (DAY)

WAAS CH 42913 W06A	APP CRS 061°	Rwy ldg 10900 TDZE 998 Apt Elev 1009

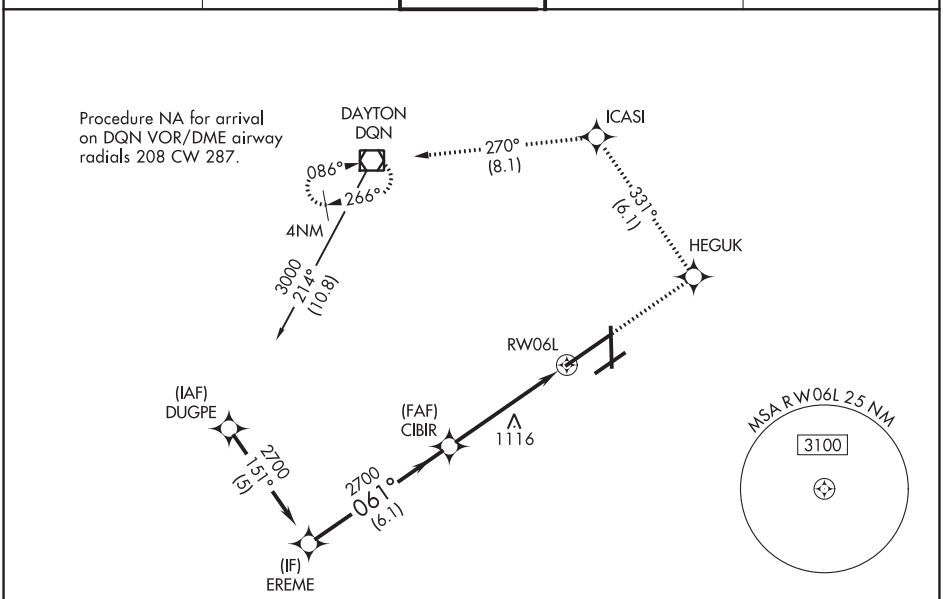
RNP APCH

T Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. Use of FD or AP required during simultaneous operations. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 5500 and LNAV Cats C/D to 1¼ SM.

ALSF-2

MISSED APPROACH: Climb to 3000 direct HEGUK and on track 331° to ICASI and on track 270° to DQN VOR/DME and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



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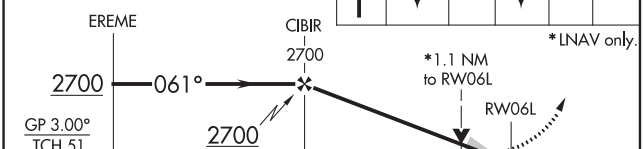
2049

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 67).

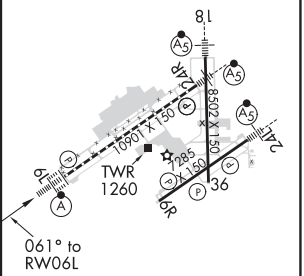
3000	HEGUK	tr 331°	ICASI	tr 270°	DQN

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	1198/18 200 (200-½)			
LNAV/VNAV DA	1366/40 368 (400-¾)			
LNAV MDA	1420/24 422 (500-½)		1420/40 422 (500-¾)	1420/50 422 (500-1)
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

ELEV 1009 D TDZE 998



HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

DAYTON, OHIO
Amdt 1E 03JAN19

39°54′N-84°13W

JAMES M COX DAYTON INTL (DAY)
RNAV (GPS) Z RWY 6L

WAAS CH 66013 W24B	APP CRS 241°	Rwy ldg 10900 TDZE 997 Apt Elev 1009

RNAV (GPS) Z RWY 24R
JAMES M COX DAYTON INTL (DAY)

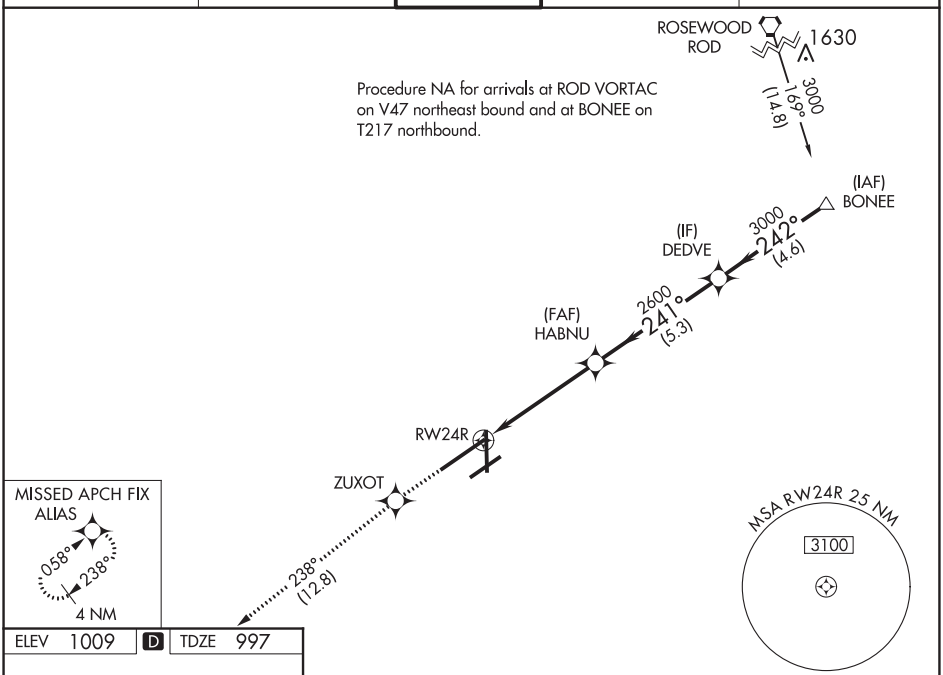
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP required during simultaneous operations. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500.

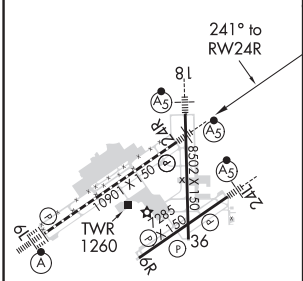
MALSR

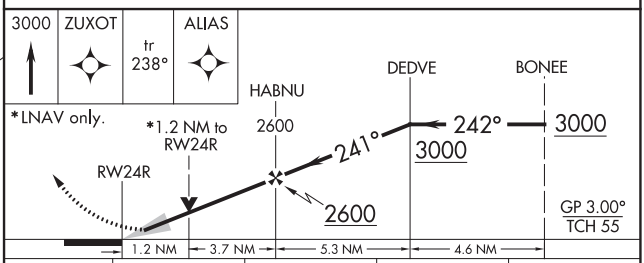
MISSED APPROACH: Climb to 3000 direct ZUXOT and on track 238° to ALIAS and hold.

ATIS	COLUMBUS APP CON	DAYTON TOWER	GND CON	CLNC DEL
125.8	118.425 323.15	119.9 257.7	121.9	121.75



ELEV 1009 D TDZE 997





CATEGORY	A	B	C	D
LPV DA	1203/24 206 (200-½)			
LNAV/VNAV DA	1294/24 297 (300-½)			
LNAV MDA	1440/24 443 (500-½)		1440/45 443 (500-⅞)	
C CIRCLING	1580-1 571 (600-1)		1580-1½ 571 (600-1½)	1640-2 631 (700-2)

HIRL all Rwys
TDZ/CL Rwy 6L
REIL Rwys 6R and 36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

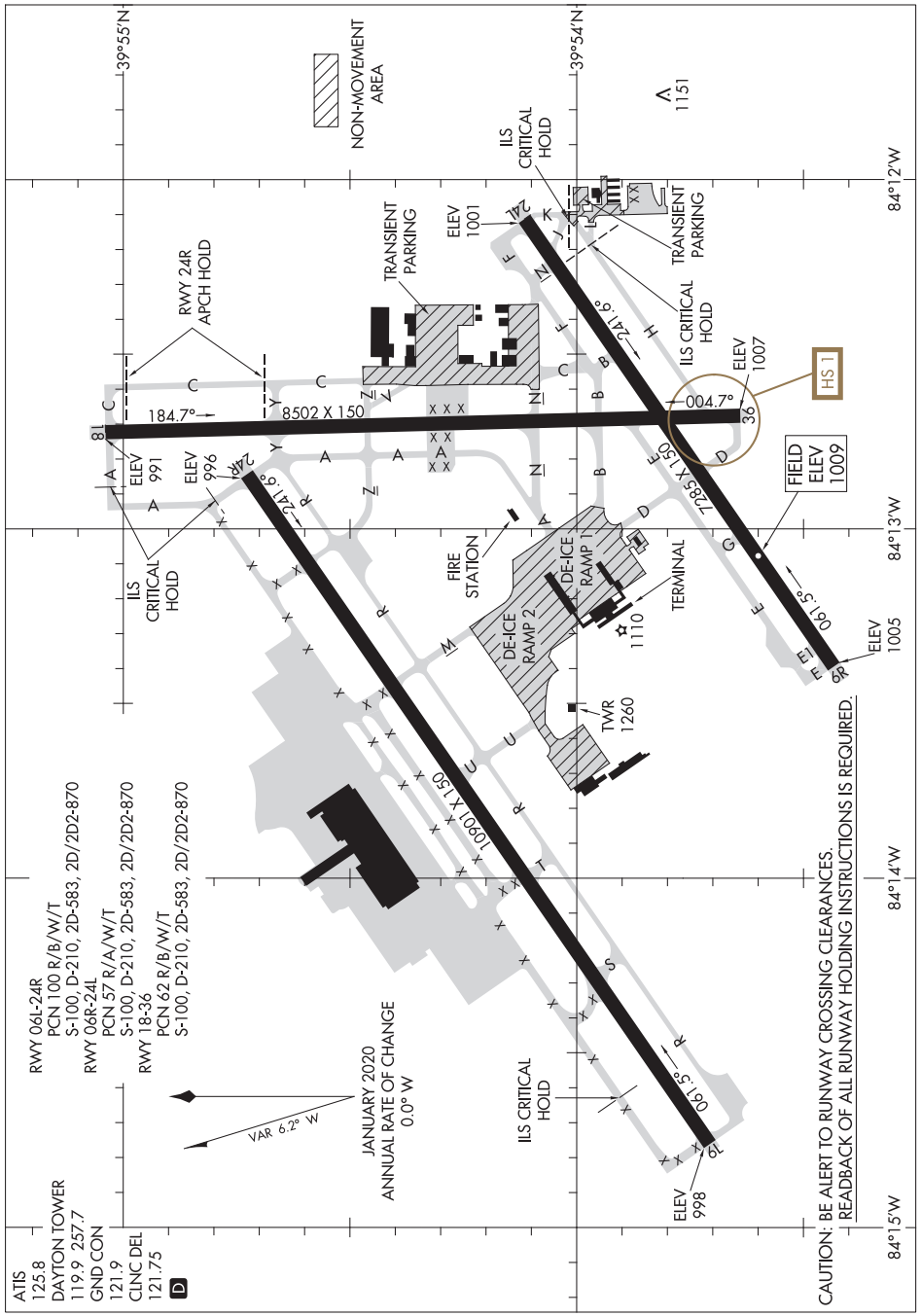
20086

AIRPORT DIAGRAM

AL-107 (FAA)

JAMES M. COX-DAYTON INTL (DAY)

DAYTON, OHIO



AIRPORT DIAGRAM

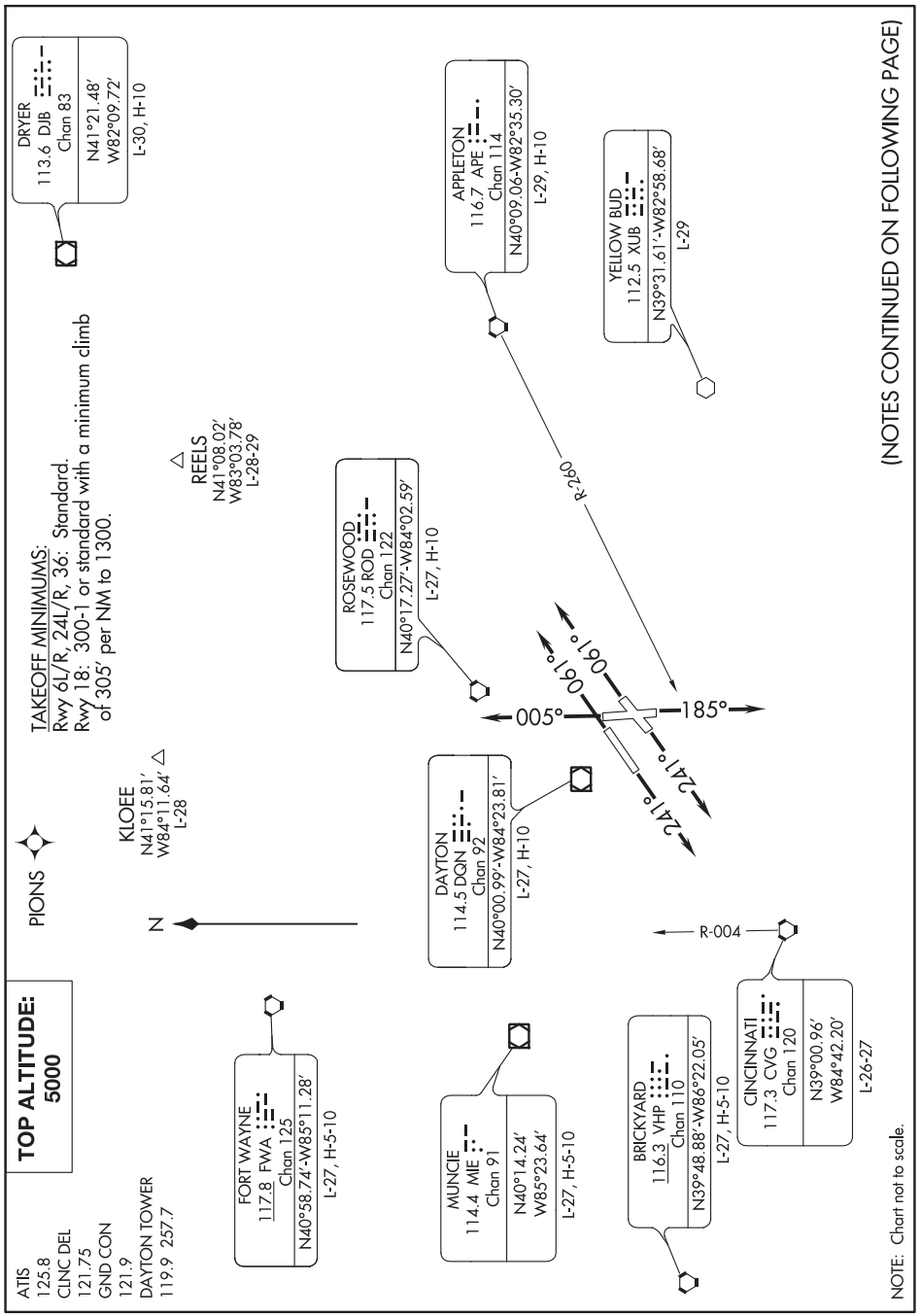
20086

DAYTON, OHIO

JAMES M. COX-DAYTON INTL (DAY)

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON SEVEN DEPARTURE



EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON SEVEN DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 6L/R: Climb on heading 061°, thence....
TAKEOFF RWY 18: Climb on heading 185°, thence....
TAKEOFF RWY 24L/R: Climb on heading 241°, thence....
TAKEOFF RWY 36: Climb on heading 005°, thence....

....or assigned radar vectors to join assigned route/fix. All aircraft maintain 5000 or filed altitude if lower. Expect clearance to requested altitude/flight level 10 minutes after departure. Appropriate departure control frequency will be assigned by ATC. Turbojet aircraft filed over CVG VORTAC, maintain 250K until advised by ATC, expect vectors to intercept CVG R-004. Aircraft filed over APE VORTAC, expect vectors to intercept APE R-260.

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 12
DEFIANCE MEMORIAL (DFI)

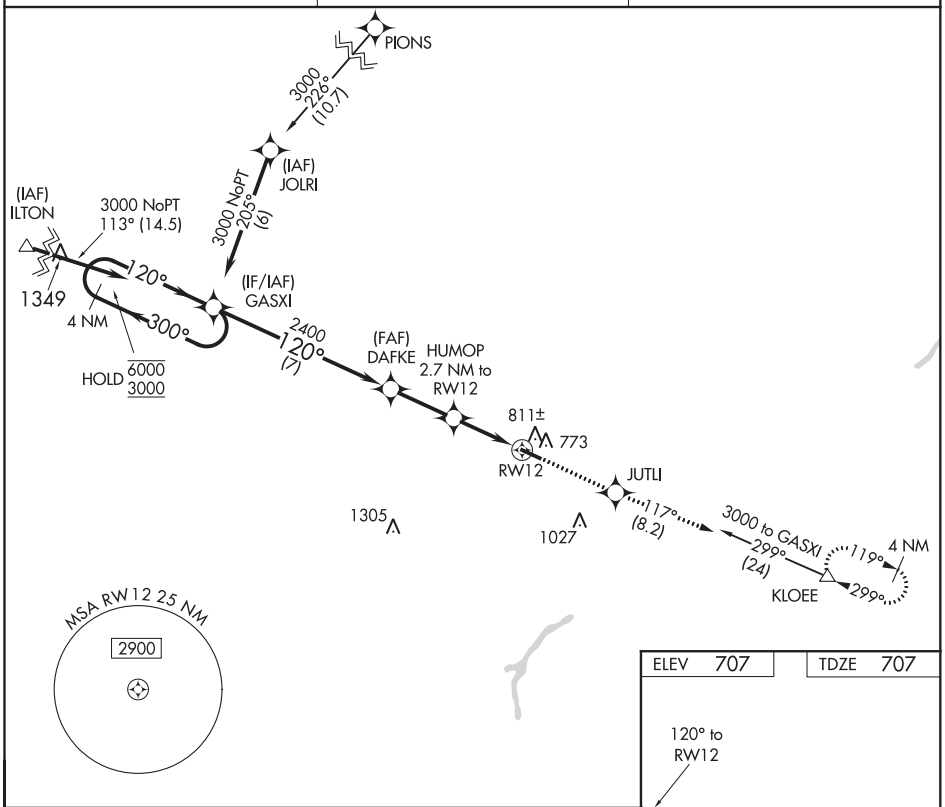
APP CRS	Rwy ldg	4199
120°	TDZE	707
	Apt Elev	707

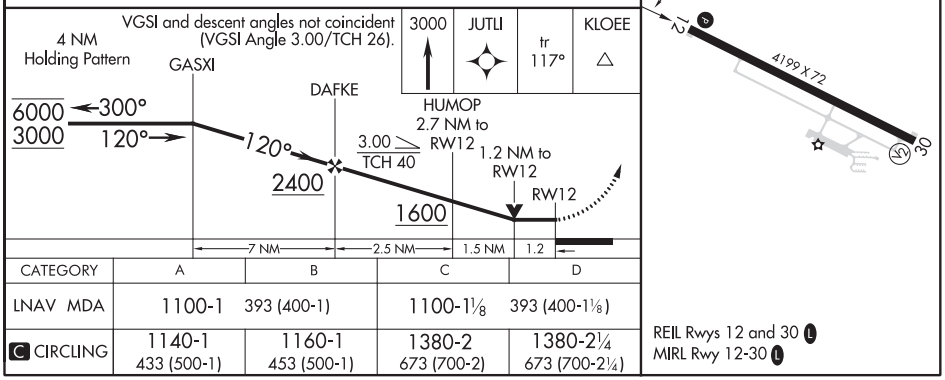
RNP APCH.

Circling Rwy 30 NA at night. Rwy 12 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct JUTLI and on track 117° to KLOEE and hold.

ASOS	TOLEDO APP CON	UNICOM
121.425	134.35 307.0	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1100-1 393 (400-1)		1100-1⅛ 393 (400-1⅛)	
C CIRCLING	1140-1 433 (500-1)	1160-1 453 (500-1)	1380-2 673 (700-2)	1380-2¼ 673 (700-2¼)

REIL Rwys 12 and 30 L
MIRL Rwy 12-30 L

EC-2, 25 FEB 2021 to 22 APR 2021

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DELAWARE, OHIO

AL-6258 (FAA)

19115

RNAV (GPS) RWY 10
DELAWARE MUNI-JIM MOORE FIELD (DLZ)

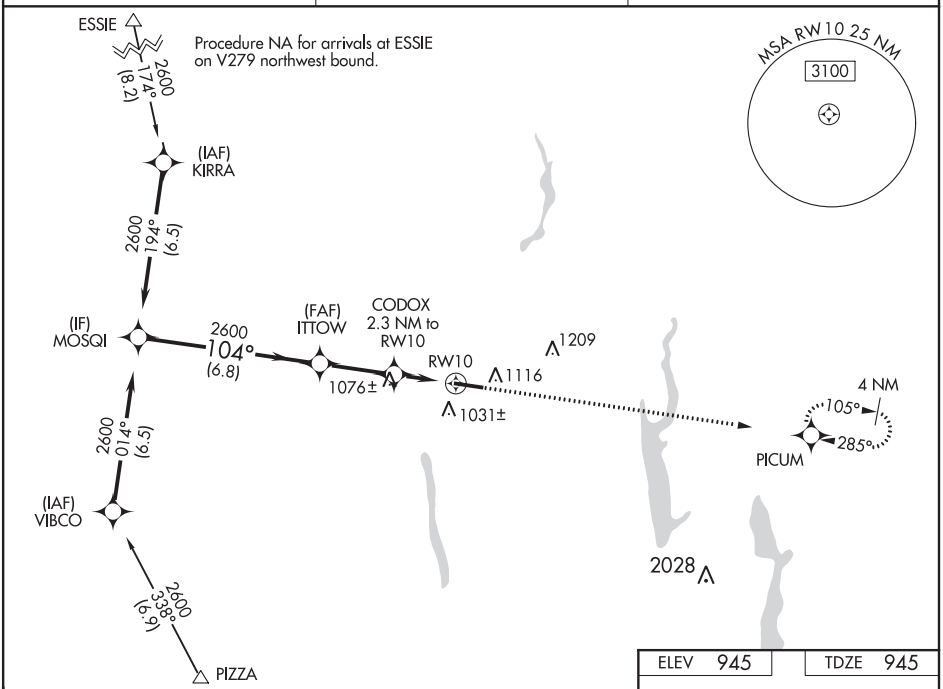
WAAS CH 90506 W10A	APP CRS 104°	Rwy ldg 5800 TDZE 945 Apt Elev 945

RNP APCH.

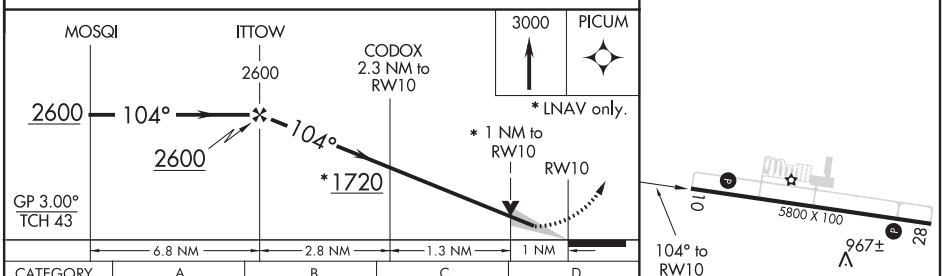
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 3000 direct PICUM and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
119.025	125.95 317.775	122.7 (CTAF) L



ELEV 945	TDZE 945



CATEGORY	A	B	C	D
LPV DA	1195-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1231-1 286 (300-1)			
LNAV MDA	1340-1 395 (400-1)			
C CIRCLING	1420-1 475 (500-1)		1560-1 615 (700-1)	1560-2 615 (700-2)

REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L

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WAAS CH 50506 W28A	APP CRS 284°	Rwy ldg 5800 TDZE 945 Apt Elev 945

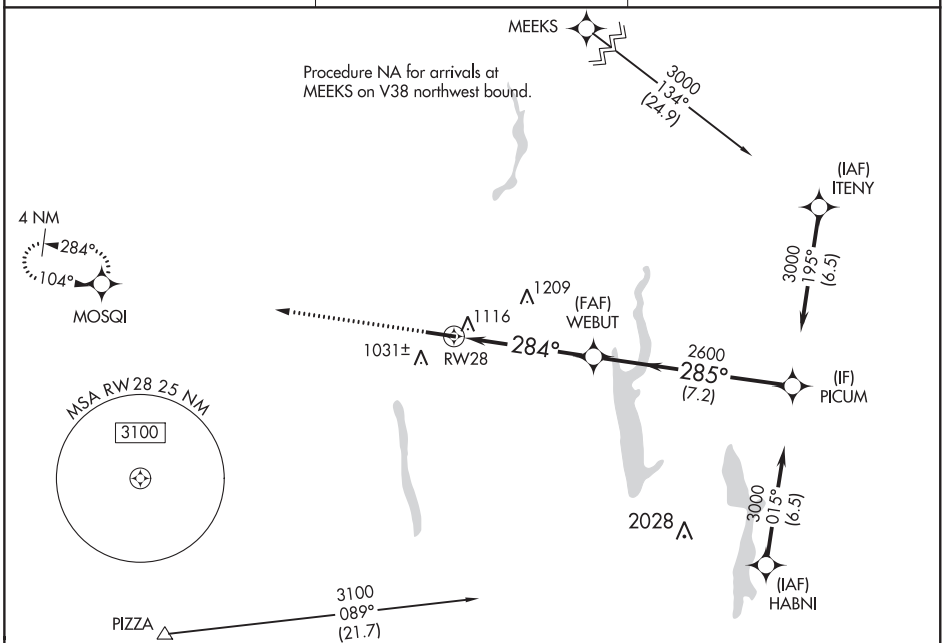
RNAV (GPS) RWY 28
DELAWARE MUNI-JIM MOORE FIELD (DLZ)

RNP APCH.

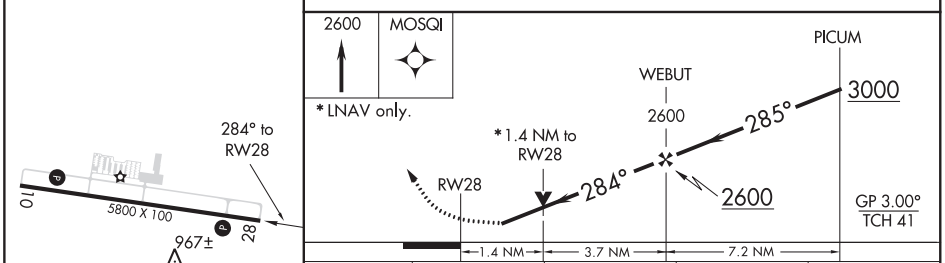
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 28 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct MOSQI and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
119.025	125.95 317.775	122.7 (CTAF) L



ELEV 945	TDZE 945



CATEGORY	A	B	C	D
LPV DA	1195-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1406-1¾ 461 (500-1¾)			
LNAV MDA	1420-1 475 (500-1)		1420-1⅜ 475 (500-1⅜)	
C CIRCLING	1420-1 475 (500-1)		1560-1¾ 615 (700-1¾)	1560-2 615 (700-2)

REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L

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EC-2, 25 FEB 2021 to 22 APR 2021

DELAWARE, OHIO

AL-6258 (FAA)

20282

VOR RWY 28

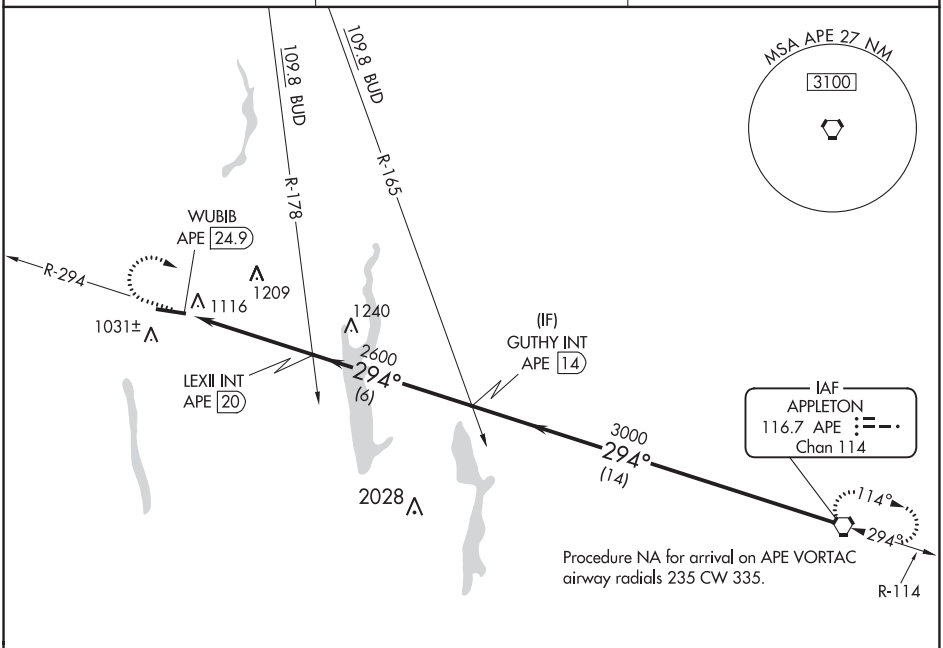
DELAWARE MUNI-JIM MOORE FIELD (DLZ)

VORTAC APE	APP CRS	Rwy ldg	5800
116.7	294°	TDZE	945
Chan 114		Apt Elev	945

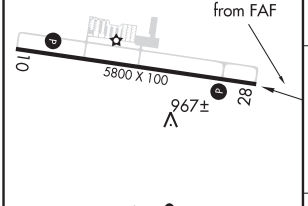
Rwy 28 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3100 then right turn direct APE VORTAC and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
119.025	125.95 317.775	122.7 (CTAF) L

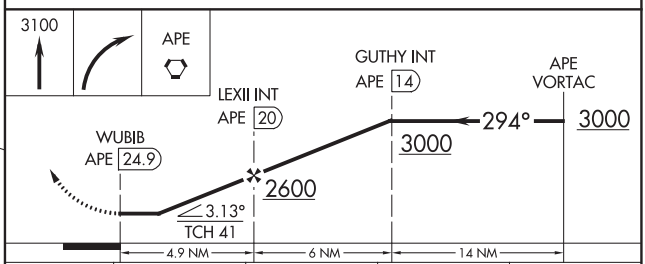


ELEV 945	TDZE 945



REIL Rwys 10 and 28 L

MIRL Rwy 10-28 L



FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:52	3:14	2:26	1:57	1:37

CATEGORY	A	B	C	D
S-28	1520-1 575 (600-1)		1520-1⅝ 575 (600-1⅝)	
C CIRCLING	1520-1 575 (600-1)		1560-1¾ 615 (700-1¾)	1560-2 615 (700-2)

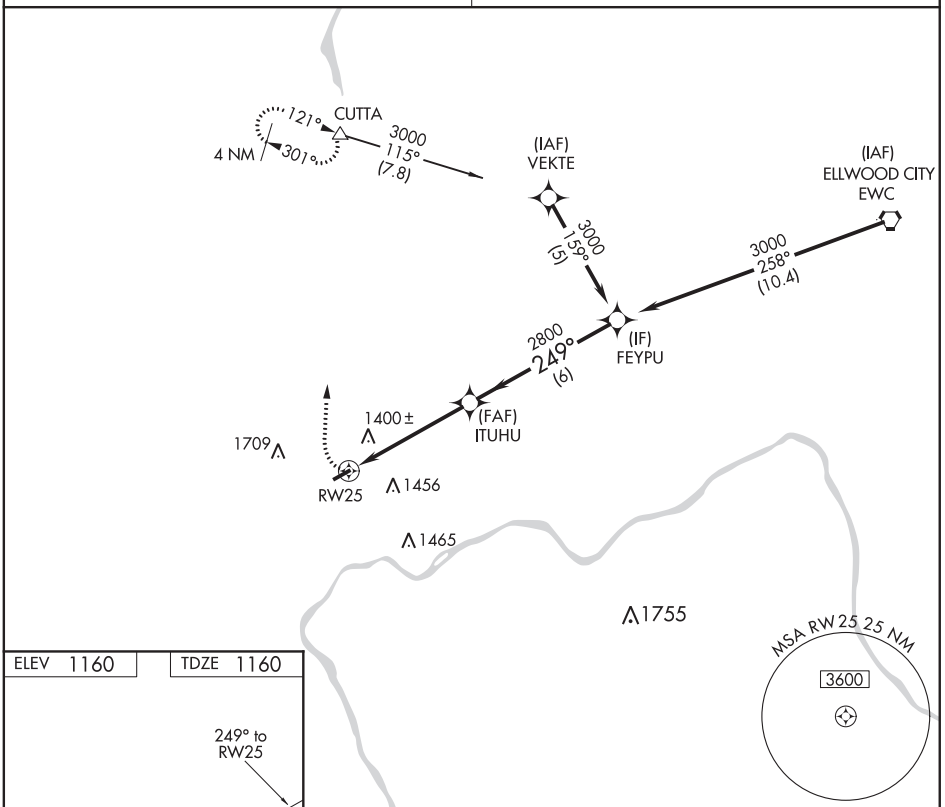
APP CRS	Rwy ldg	3503
249°	TDZE	1160
	Apt Elev	1160

RNAV (GPS) RWY 25
COLUMBIANA COUNTY (Q2G)

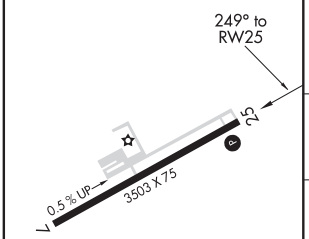
DME/DME RNP-0.3 NA
NA Use Pittsburgh Intl altimeter setting, when not received, use Wheeling, WV altimeter setting and increase all MDA 20 feet, increase Cat C visibilities ¼ mile.

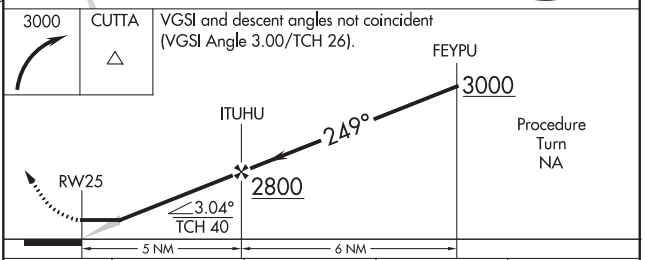
MISSED APPROACH: Climbing right turn to 3000 direct CUTTA and hold.

PITTSBURGH APP CON	UNICOM
124.75 338.2	123.0 (CTAF) L



ELEV 1160	TDZE 1160





CATEGORY	A	B	C	D
LNAV MDA	1760-1 600 (600-1)		1760-1½ 600 (600-1½)	NA
CIRCLING	1960-1 800 (800-1)	1960-1¼ 800 (800-1¼)	1960-2¼ 800 (800-2¼)	NA

REIL Rwy 7-25 L
MIRL Rwy 7-25 L

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ELKHART, INDIANA

AL-5287 (FAA)

20086

ILS or LOC RWY 27
ELKHART MUNI (EKM)

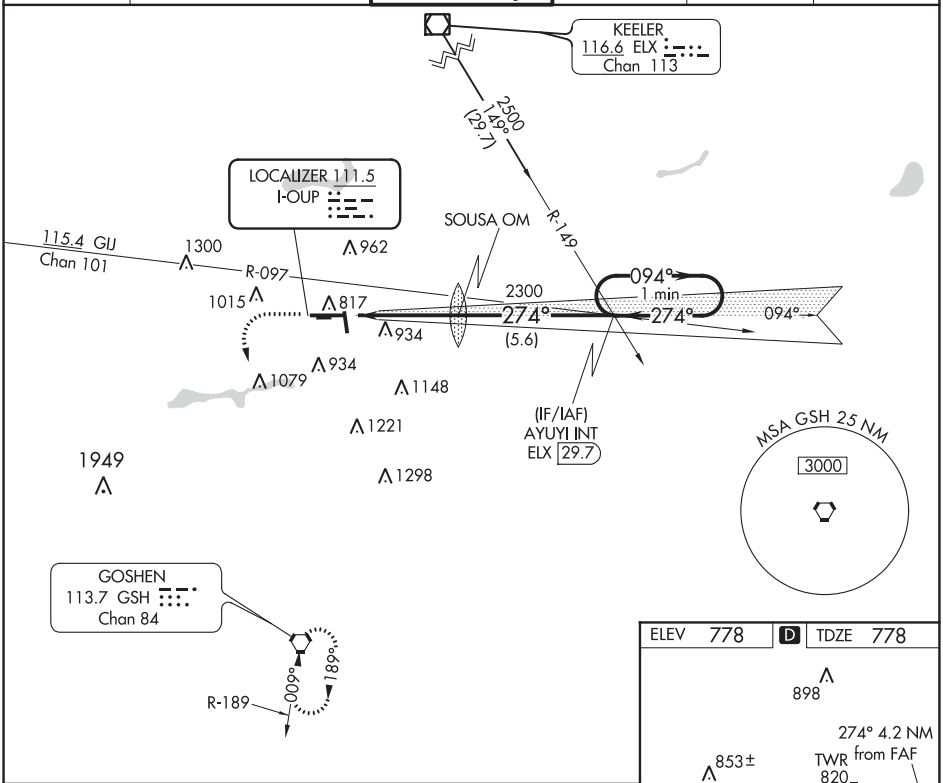
LOC I-OUP	APP CRS	Rwy ldg / TDZE / Apt Elev
111.5	274°	6500 / 778 / 778

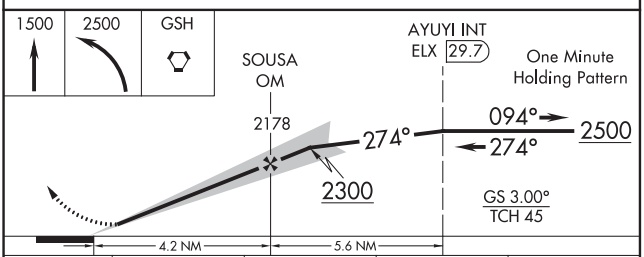
When local altimeter setting not received, use South Bend altimeter setting and increase all DA/MDA 40 feet, and increase S-LOC 27 Cat C/D visibility to RVR 5000. Circling Rwy 36 NA at night. Circling NA to Rwys 8 and 26. Rwy 27 helicopter visibility reduction below RVR 4000 NA. For inop ALS, increase S-ILS 27 all Cats visibility to RVR 4500 and S-LOC 27 Cat A/B visibility to RVR 5500. For inop ALS when using South Bend altimeter setting, increase S-LOC 27 Cat A/B visibility to RVR 5500 and Cat C/D visibility to 1⅜ SM.

MALSR

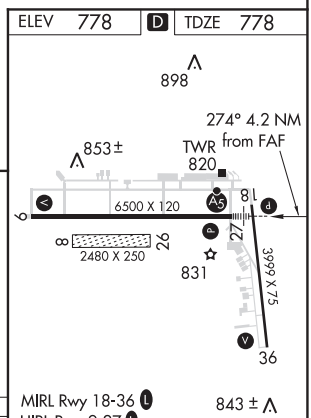
MISSED APPROACH: Climb to 1500 then climbing left turn to 2500 direct GSH VORTAC and hold.

AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95





CATEGORY	A	B	C	D
S-ILS 27	1066/40		288 (300-¾)	
S-LOC 27	1220/40	442 (500-¾)	1220/45	442 (500-⅞)
C CIRCLING	1240-1 462 (500-1)	1300-1 522 (600-1)	1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)



MIRL Rwy 18-36 L
HIRL Rwy 9-27 L
REIL Rwys 9, 18 and 36 L

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 9
ELKHART MUNI (EKM)

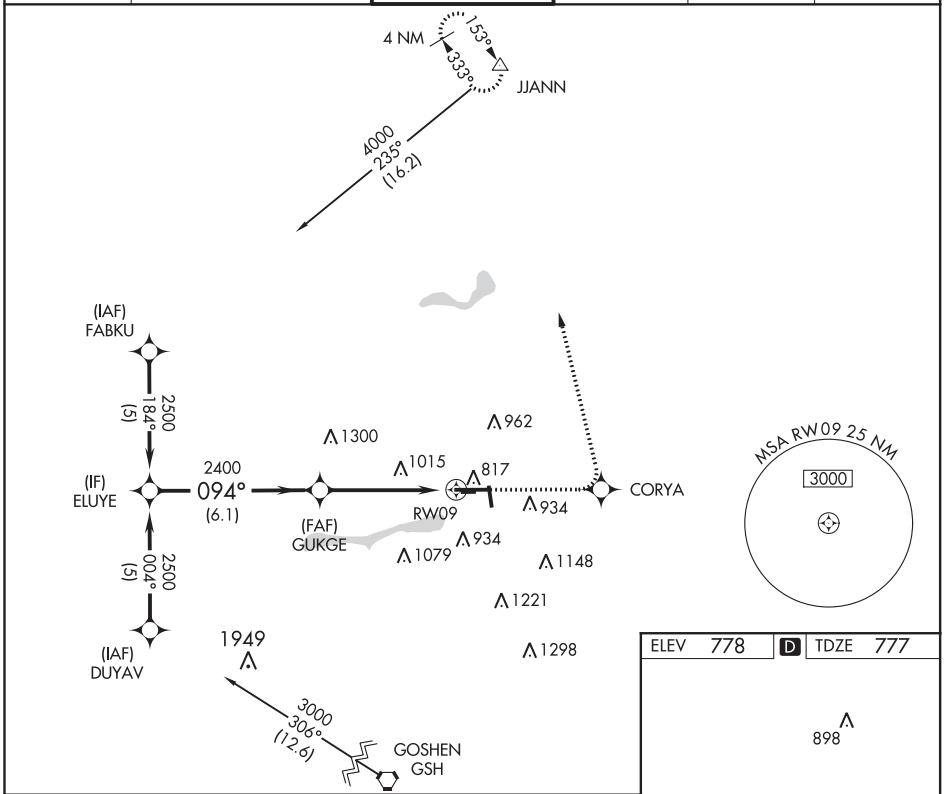
APP CRS	Rwy ldg	6500
094°	TDZE	777
	Apt Elev	778

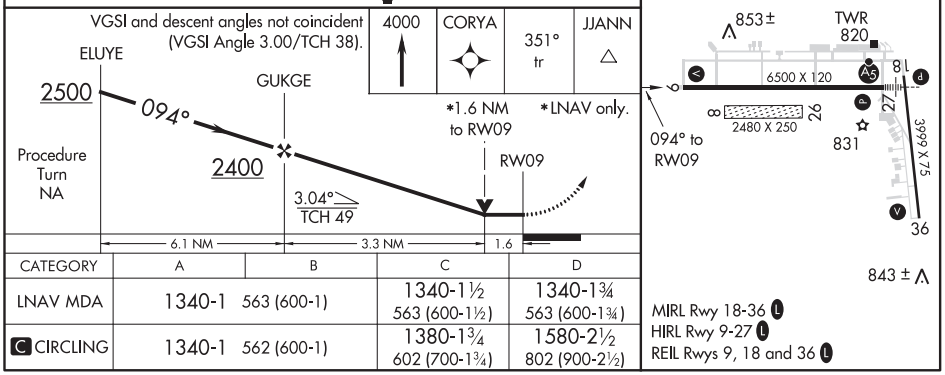
RNP APCH.

VDP NA when using South Bend altimeter setting. Circling Rwy 36 NA at night. Circling NA to Rwys 8 and 26. Rwy 9 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use South Bend altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 4000 direct CORYA and via 351° track to JJANN and hold.

AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95





CATEGORY	A	B	C	D
LNAV MDA	1340-1 563 (600-1)		1340-1½ 563 (600-1½)	1340-1¾ 563 (600-1¾)
C CIRCLING	1340-1 562 (600-1)		1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

ELKHART, INDIANA

AL-5287 (FAA)

19003

RNAV (GPS) RWY 18

ELKHART MUNI (EKM)

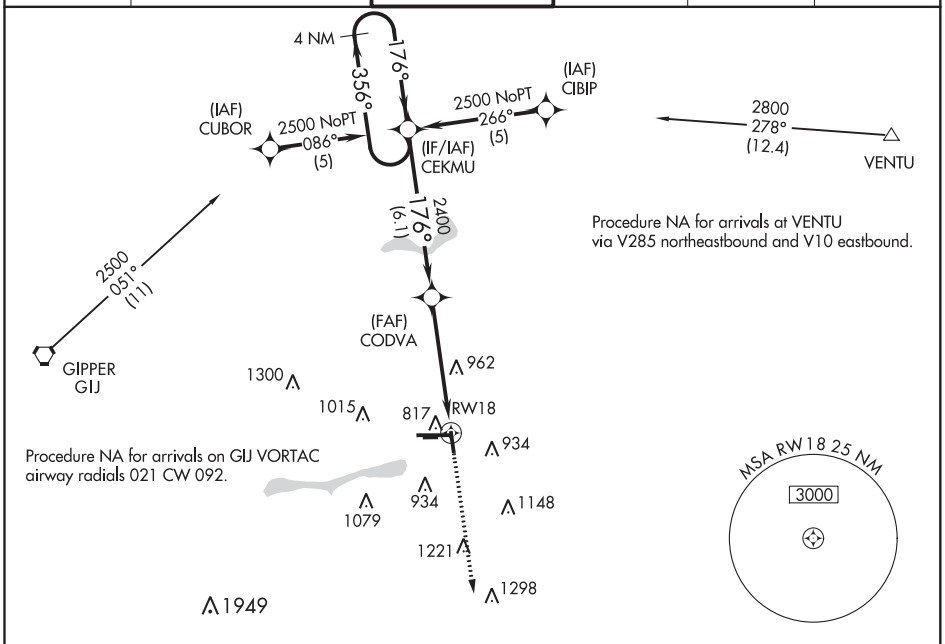
APP CRS	Rwy ldg	3999
176°	TDZE	777
	Apt Elev	778

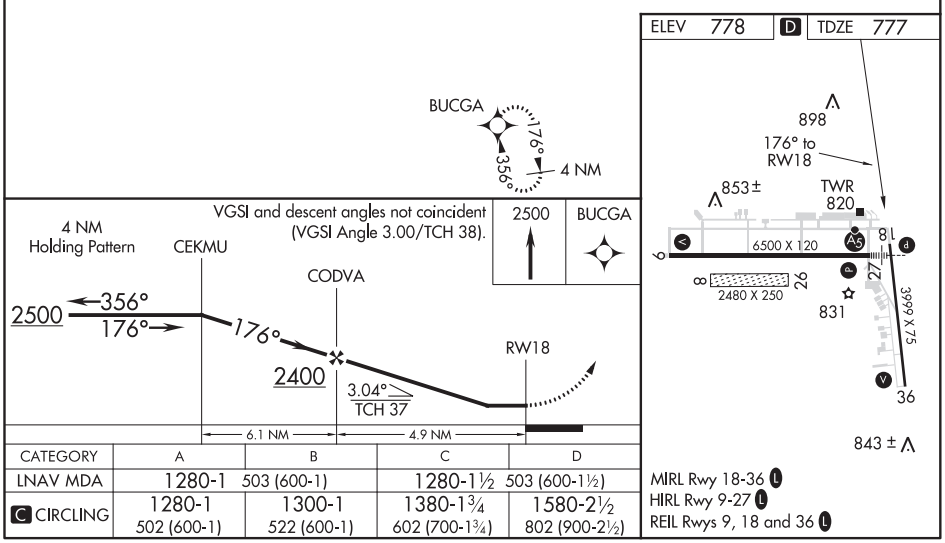
RNP APCH.

When local altimeter setting not received, use South Bend altimeter setting and increase all MDA 40 feet. Circling Rwy 36 NA at night. Circling NA to Rwys 8 and 26. Rwy 18 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct BUCGA and hold.

AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95





CATEGORY	A	B	C	D
LNAV MDA	1280-1 503 (600-1)		1280-1½ 503 (600-1½)	
C CIRCLING	1280-1 502 (600-1)	1300-1 522 (600-1)	1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)

ELKHART, INDIANA

Orig-B 03JAN19

41°43'N-86°00'W

ELKHART MUNI (EKM)

RNAV (GPS) RWY 18

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RNAV (GPS) RWY 27
ELKHART MUNI (EKM)

WAAS CH 50107 W27A	APP CRS 274°	Rwy ldg 6500 TDZE 778 Apt Elev 778

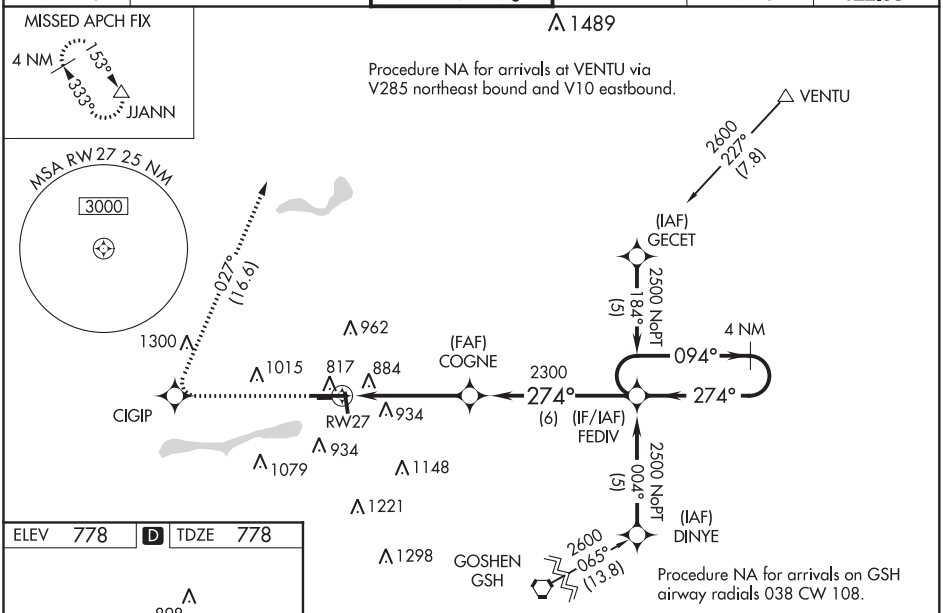
RNP APCH.

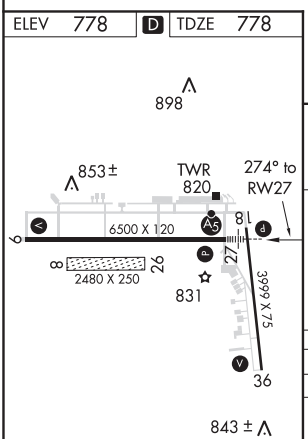
When local altimeter setting not received, use South Bend altimeter setting: increase LPV DA to 1111 feet; increase LNAV/VNAV DA to 1261 feet; increase all MDA 40 feet and LNAV visibility Cat C/D to RVR 5500, Circling Cat D visibility ¼ SM. VDP and Baro-VNAV NA with South Bend altimeter setting. Circling Rwy 36 NA at night. Circling NA to Rwys 8 and 26. Rwy 27 helicopter visibility reduction below RVR 4000 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For inop ALS, increase LPV all Cats visibility to RVR 4500, LNAV/VNAV all Cats visibility to 1⅜ SM, LNAV Cat A/B visibility to RVR 5500 and Cat C/D to 1⅜ SM. For inop ALS when using South Bend altimeter setting, increase LNAV/VNAV all Cats visibility to 1⅜ SM and LNAV Cat A/B to RVR 5500

MALSR

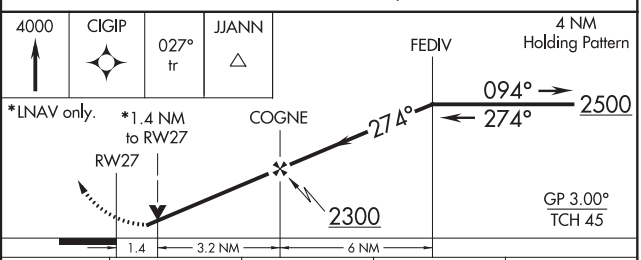
MISSED APPROACH: Climb to 4000 direct CIGIP and via 027° track to JJANN and hold.

AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95





MIRL Rwy 18-36 L
HIRL Rwy 9-27 L
REIL Rwys 9, 18 and 36 L



CATEGORY	A	B	C	D
LPV DA	1071/40 293 (300-¾)			
LNAV/VNAV DA	1221/50 443 (500-1)			
LNAV MDA	1260/40 482 (500-¾)		1260/50 482 (500-1)	
C CIRCLING	1260-1½ 482 (500-1½)	1300-1½ 522 (600-1½)	1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

ELKHART, INDIANA

AL-5287 (FAA)

19003

RNAV (GPS) RWY 36

ELKHART MUNI (EKM)

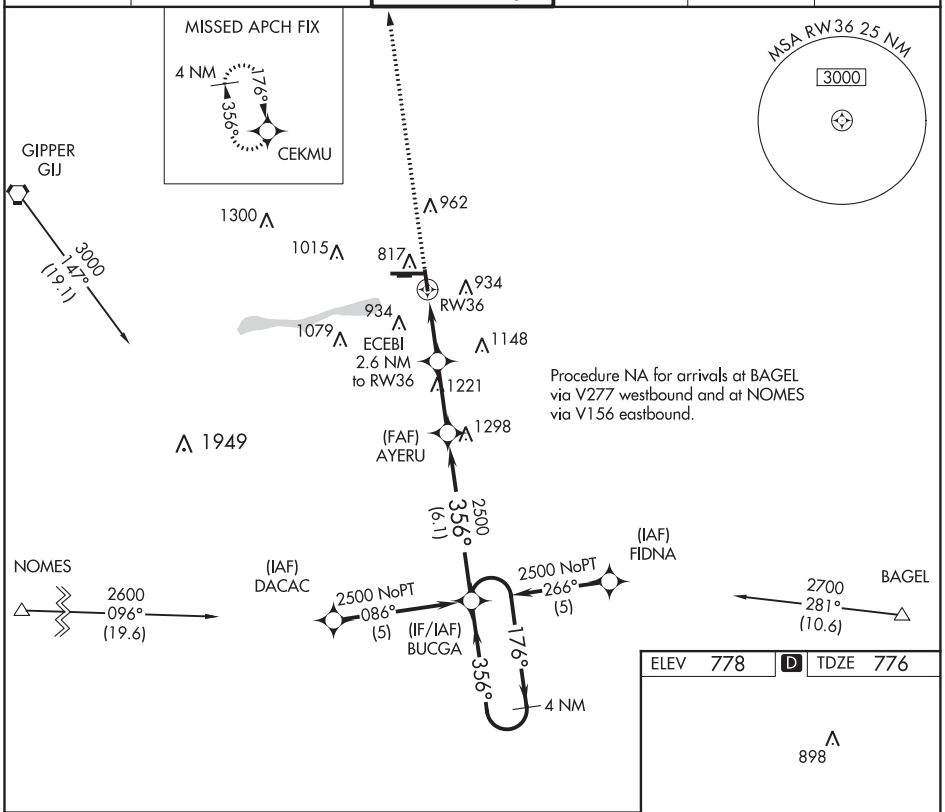
APP CRS	Rwy ldg	3999
356°	TDZE	776
	Apt Elev	778

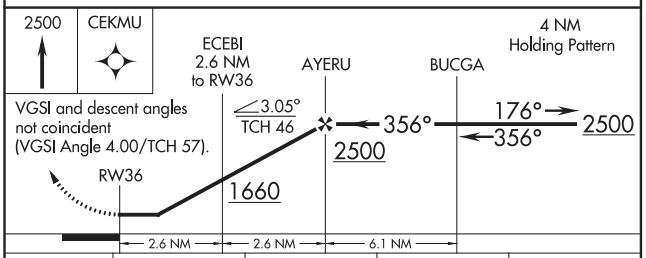
RNP APCH.

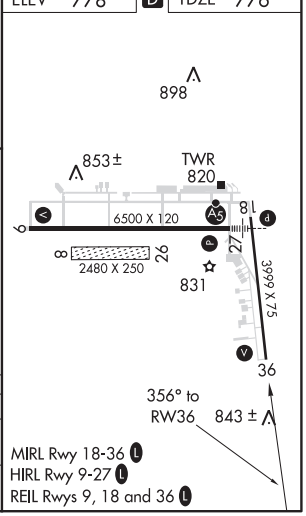
When local altimeter setting not received, use South Bend altimeter setting and increase all MDA 40 feet. Straight-in and Circling Rwy 36 NA at night. Rwy 36 helicopter visibility reduction below 1 SM NA. Circling NA to Rwys 8 and 26.

MISSED APPROACH: Climb to 2500 direct CEKMU and hold.

AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95







CATEGORY	A	B	C	D
LNAV MDA	1220-1 444 (500-1)		1220-1¼ 444 (500-1¼)	1220-1½ 444 (500-1½)
C CIRCLING	1240-1 462 (500-1)	1300-1 522 (600-1)	1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)

ELKHART, INDIANA

Orig-B 03JAN19

41°43′N-86°00′W

ELKHART MUNI (EKM)

RNAV (GPS) RWY 36

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EC-2, 25 FEB 2021 to 22 APR 2021

VOR RWY 9
ELKHART MUNI (EKM)

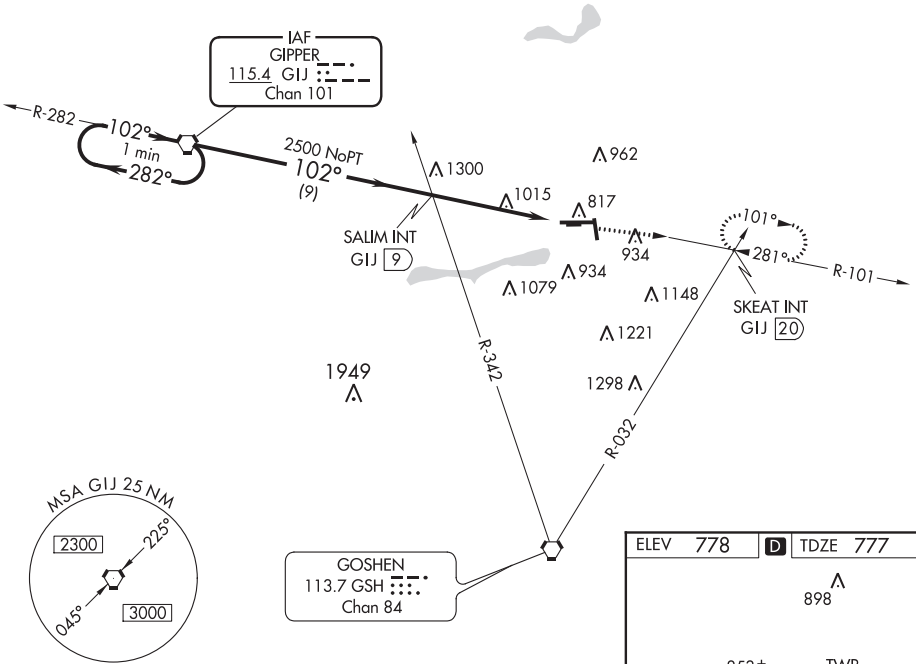
VORTAC GIJ	APP CRS	Rwy ldg	6500
115.4	102°	TDZE	777
Chan 101		Apt Elev	778

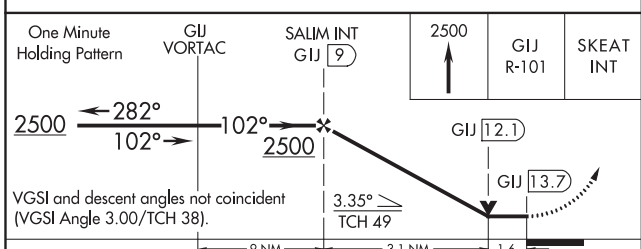
T A Circling Rwy 36 NA at night. Circling NA to Rwys 8 and 26. Rwy 9 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use South Bend altimeter setting and increase all MDA 40 feet. VDP NA when using South Bend altimeter setting.

MISSED APPROACH: Climb to 2500 via GIJ R-101 to SKEAT INT/GIJ 20 DME and hold.

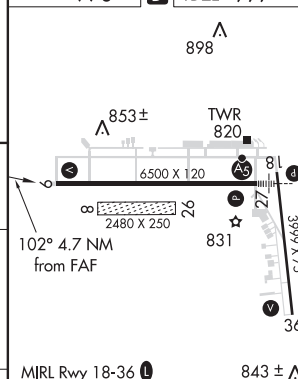
AWOS-3	SOUTH BEND APP CON ★		ELKHART TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	118.55	257.8	119.5 (CTAF) L	121.8	121.8	122.95

NoPT for arrivals on GIJ VORTAC airway radials 209 CW 310.





CATEGORY	A	B	C	D
S-9	1340-1	563 (600-1)	1340-1½ 563 (600-1½)	1340-1¾ 563 (600-1¾)
C CIRCLING	1340-1	562 (600-1)	1380-1¾ 602 (700-1¾)	1580-2½ 802 (900-2½)



MIRL Rwy 18-36 L
HIRL Rwy 9-27 L
REIL Rwys 9, 18 and 36 L

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

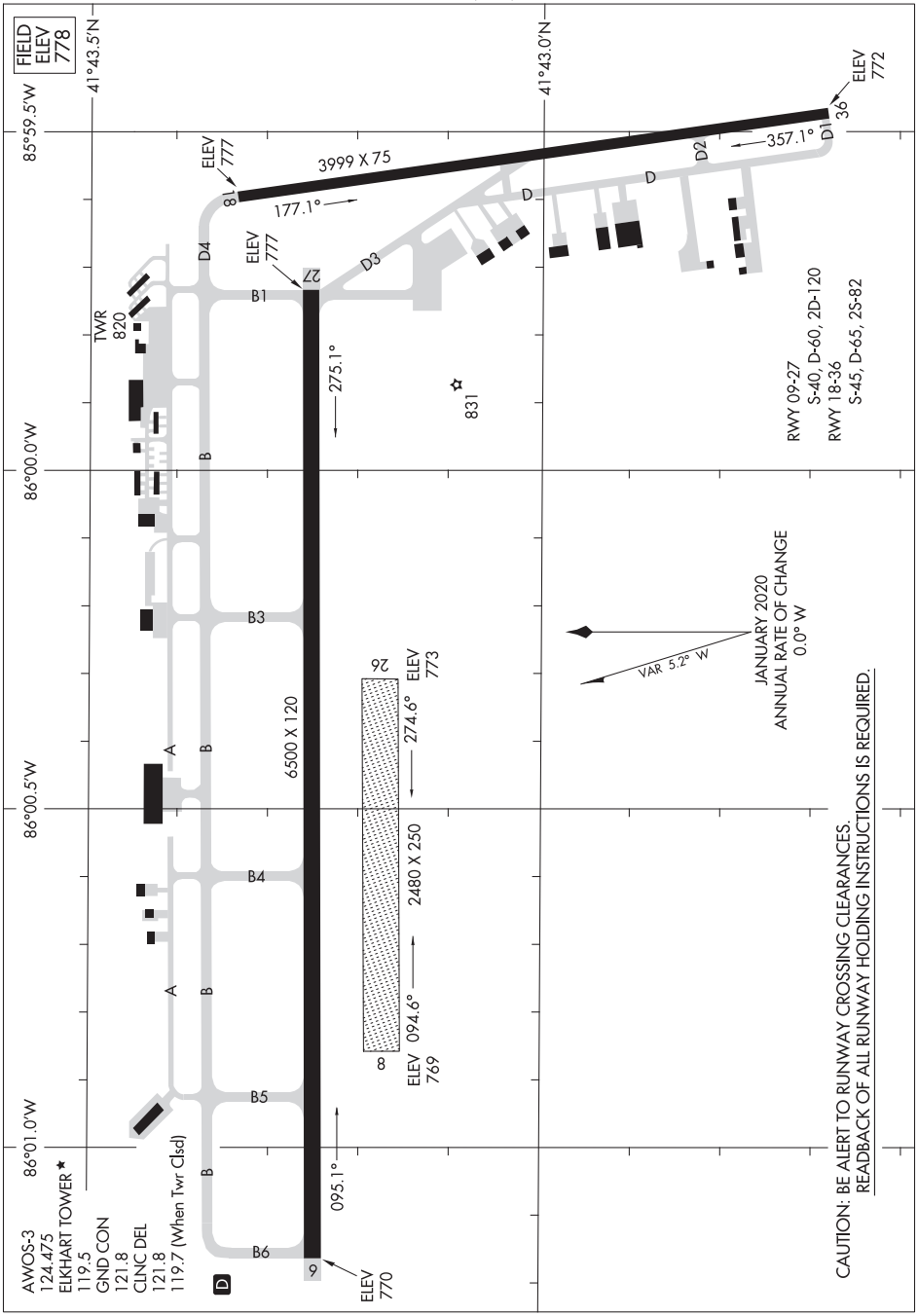
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

ELKHART MUNI (EKM)
ELKHART, INDIANA

AL-5287 (FAA)



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
ELKHART, INDIANA
ELKHART MUNI (EKM)
20086

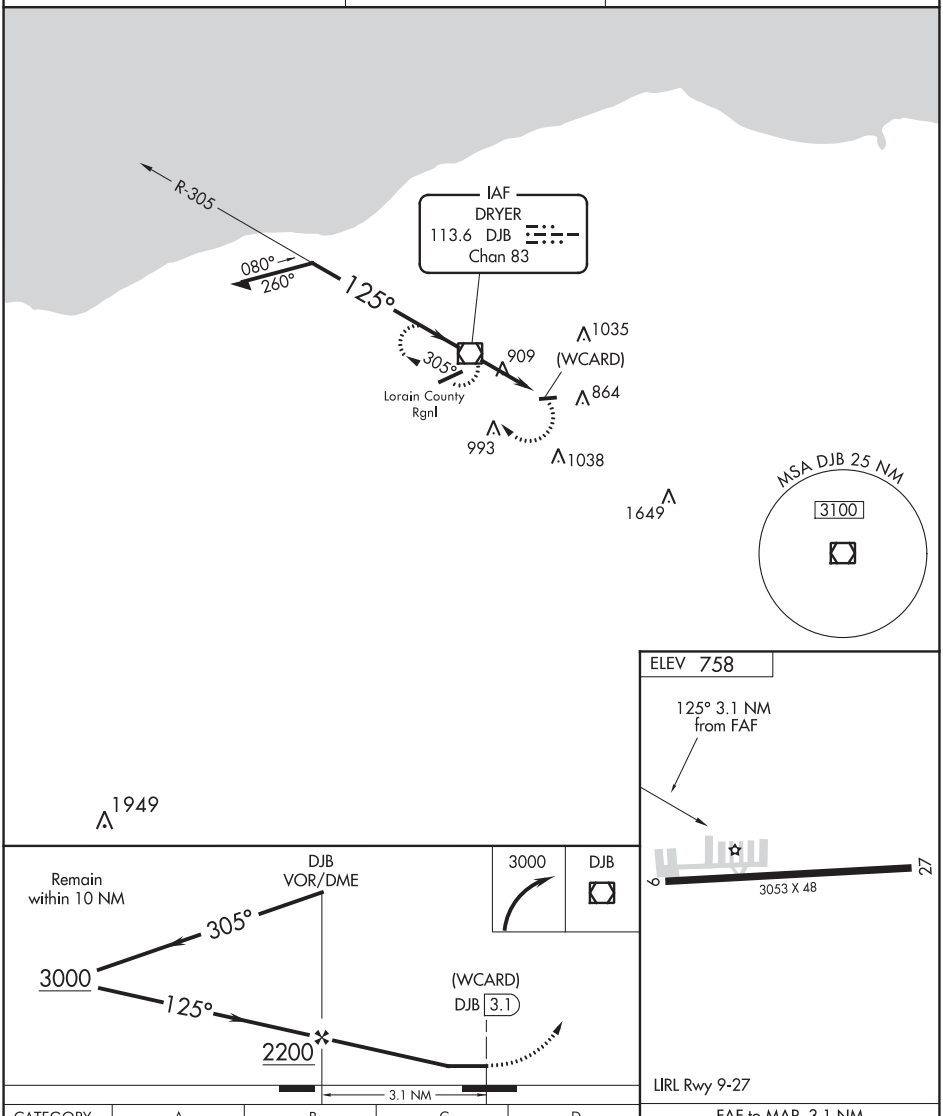
VOR or GPS-A
ELYRIA (1G1)

VOR/DME DJB 113.6 Chan 83	APP CRS 125°	Rwy ldg N/A TDZE N/A Apt Elev 758

Use Cleveland Hopkins Intl altimeter setting.
Procedure NA at night.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 3000 direct DJB VOR/DME and hold.

CLEVELAND APP CON	CLNC DEL	UNICOM
126.35 346.325	125.7	122.8 (CTAF)



CATEGORY	A	B	C	D
CIRCLING	1280-1 522 (600-1)	1300-1 542 (600-1)	1300-1½ 542 (600-1½)	NA

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

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EVANSVILLE, INDIANA — AL-513 (FAA) — 19115

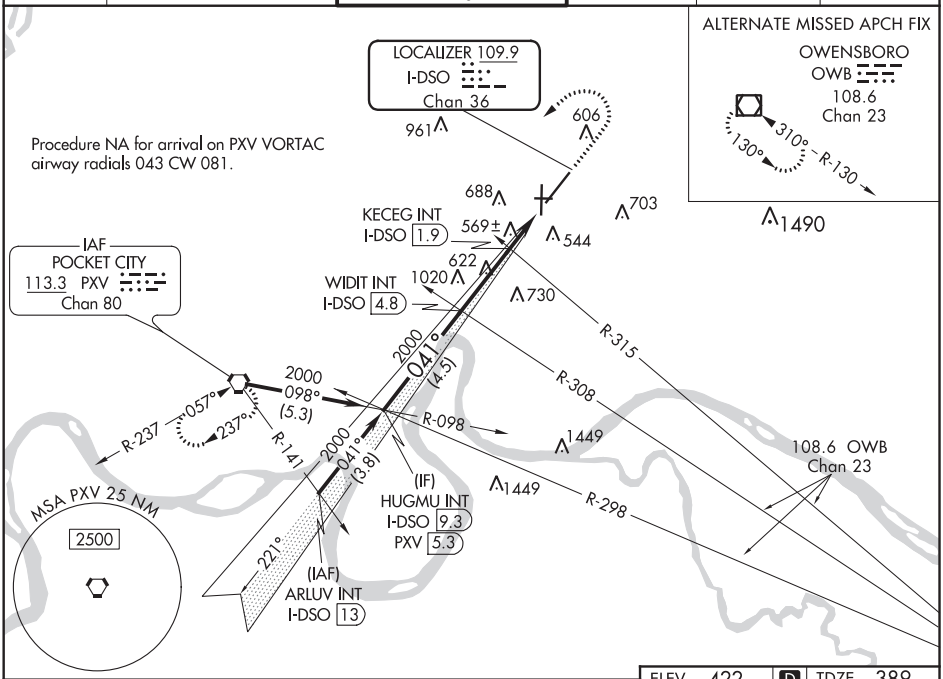
ILS or LOC RWY 4
EVANSVILLE RGNL (EVV)

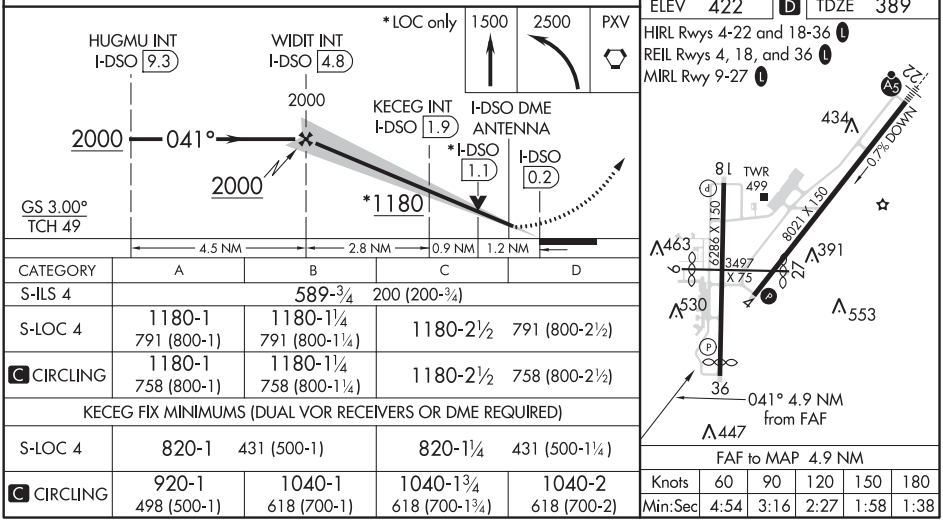
LOC/DME I-DSO	APP CRS	Rwy ldg	8021
109.9	041°	TDZE	389
Chan 36		Apt Elev	422

ASR — Circling Rwy 9 NA at night.

MISSED APPROACH: Climb to 1500 then climbing left turn to 2500 direct PXV VORTAC and hold.

ATIS	EVANSVILLE APP CON *		EVANSVILLE TOWER *	GND CON	CLNC DEL	UNICOM
120.2	124.025	290.9	118.7 (CTAF) L 257.8	121.9	126.6	122.95





CATEGORY	A	B	C	D
S-ILS 4	589-¾ 200 (200-¾)			
S-LOC 4	1180-1 791 (800-1)	1180-1¼ 791 (800-1¼)	1180-2½ 791 (800-2½)	
C CIRCLING	1180-1 758 (800-1)	1180-1¼ 758 (800-1¼)	1180-2½ 758 (800-2½)	
KECEG FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-LOC 4	820-1 431 (500-1)		820-1¼ 431 (500-1¼)	
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

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ILS or LOC RWY 22
EVANSVILLE RGNL (EVV)

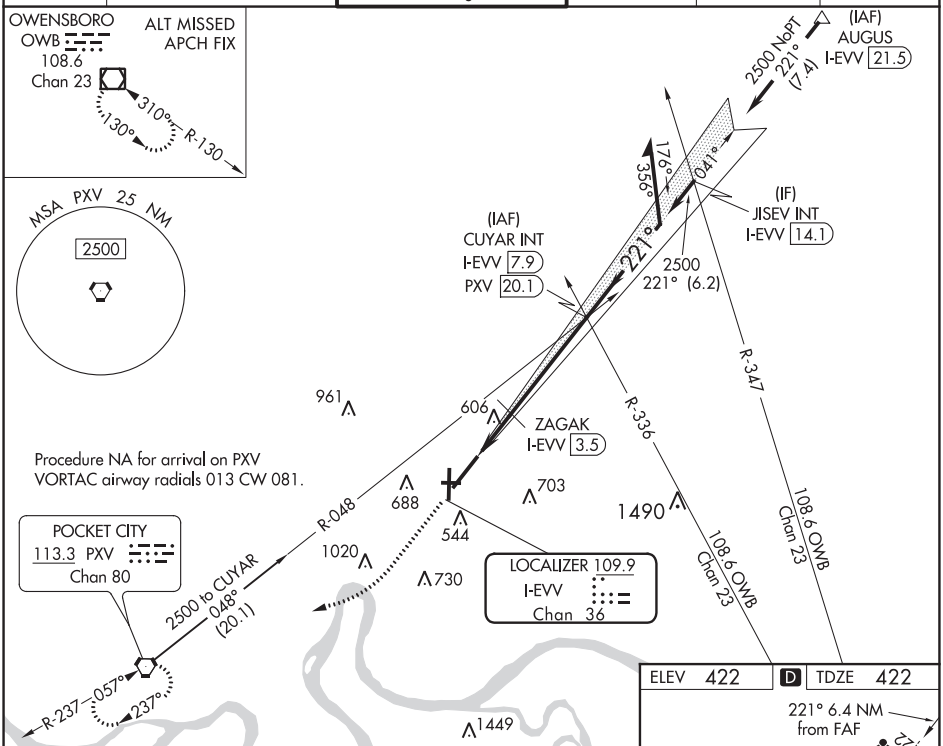
LOC/DME I-EVV	APP CRS	Rwy ldg	8021
109.9	221°	TDZE	422
Chan 36		Apt Elev	422

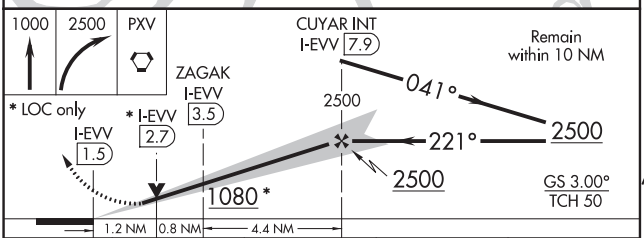
ASR: Circling Rwy 9 NA at night.
RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 2500 direct PXV VORTAC and hold.

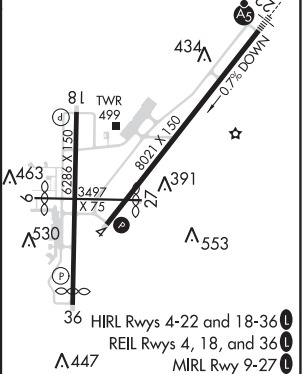
ATIS	EVANSVILLE APP CON ★		EVANSVILLE TOWER ★		GND CON	CLNC DEL	UNICOM
120.2	124.025	290.9	118.7 (CTAF) L	257.8	121.9	126.6	122.95





CATEGORY	A	B	C	D
S-ILS 22	# 622/24	200 (200-½)		
S-LOC 22	1080/24	658 (700-½)	1080-1⅜	658 (700-1⅜)
C CIRCLING	1080-1	658 (700-1)	1080-1⅞ 658 (700-1⅞)	1080-2 658 (700-2)
ZAGAK FIX MINIMUMS (DME REQUIRED)				
S-LOC 22	860/24	438 (500-½)	860/40	438 (500-¾)
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

ELEV 422 D TDZE 422



HIRL Rwys 4-22 and 18-36 L
REIL Rwys 4, 18, and 36 L
MIRL Rwy 9-27 L

FAF to MAP 6.4 NM

Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

EVANSVILLE, INDIANA | AL-513 (FAA) | 19115

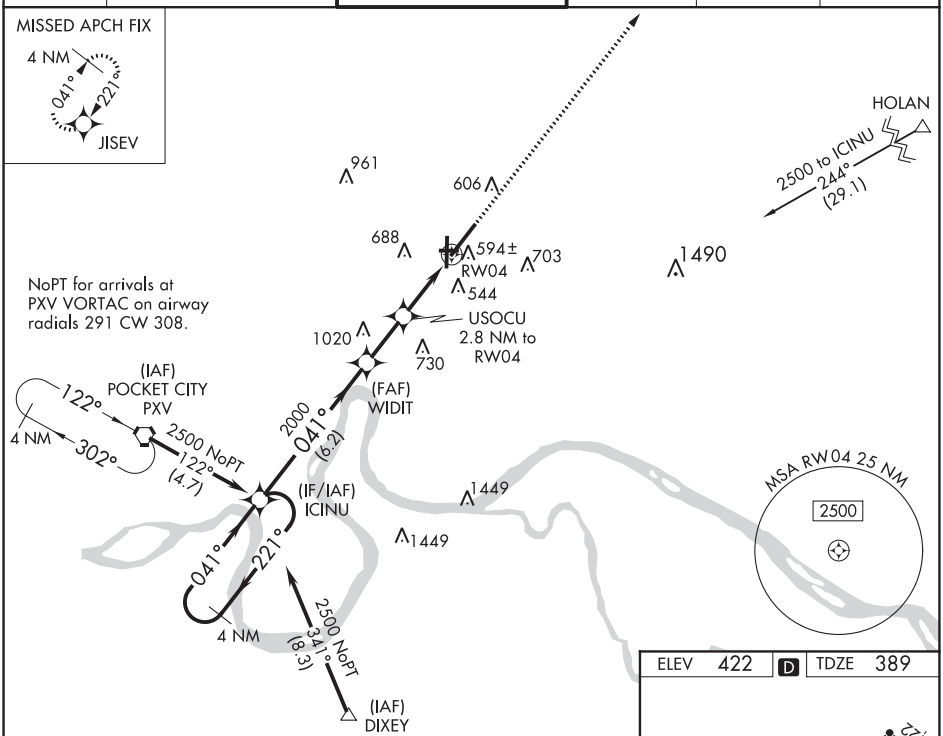
WAAS CH 82711 W04A	APP CRS 041°	Rwy ldg 8021 TDZE 389 Apt Elev 422

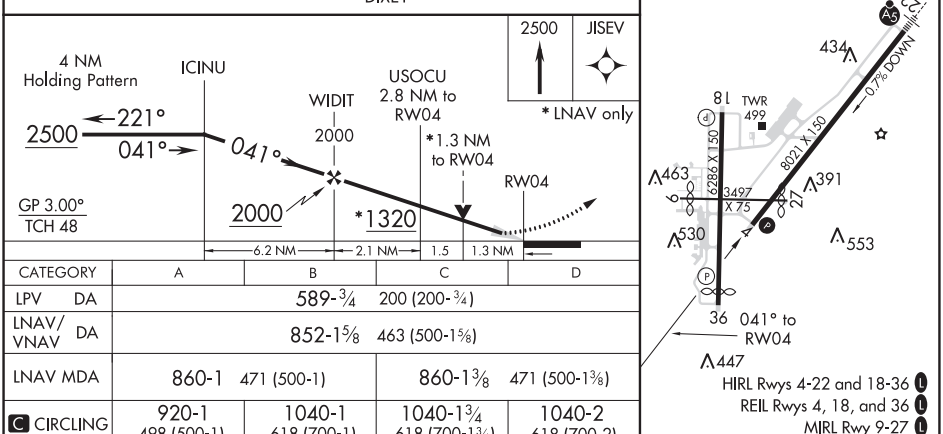
RNAV (GPS) RWY 4
EVANSVILLE RGNL (EVV)

ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 9 NA at night.

MISSED APPROACH: Climb to 2500 direct JISEV and hold.

ATIS	EVANSVILLE APP CON *	EVANSVILLE TOWER *	GND CON	CLNC DEL	UNICOM
120.2	124.025 290.9	118.7 (CTAF) L 257.8	121.9	126.6	122.95





CATEGORY	A	B	C	D
LPV DA	589-¾ 200 (200-¾)			
LNAV/VNAV DA	852-1⅝ 463 (500-1⅝)			
LNAV MDA	860-1 471 (500-1)		860-1⅜ 471 (500-1⅜)	
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

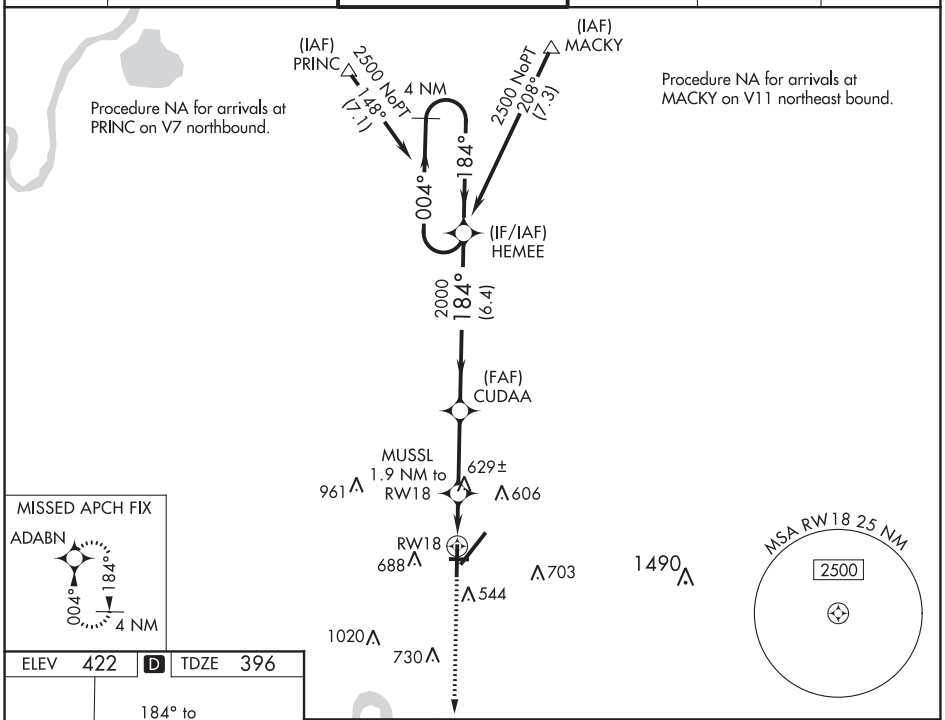
WAAS CH 50421 W18A	APP CRS 184°	Rwy ldg 5497 TDZE 396 Apt Elev 422

RNAV (GPS) RWY 18
EVANSVILLE RGNL (EVV)

ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 9 NA at night. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct ADABN and hold.

ATIS	EVANSVILLE APP CON ★		EVANSVILLE TOWER ★	GND CON	CLNC DEL	UNICOM
120.2	124.025	290.9	118.7 (CTAF) L 257.8	121.9	126.6	122.95



CATEGORY	A	B	C	D
LPV DA	596- ¾ 200 (200-¾)			
LNAV/VNAV DA	931-1¾ 535 (600-1¾)			
LNAV MDA	880-1 484 (500-1)		880-1⅜ 484 (500-1⅜)	
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

EVANSVILLE, INDIANA | AL-513 (FAA) | 19115

WAAS CH 42512 W22A	APP CRS 221°	Rwy ldg 8021 TDZE 422 Apt Elev 422

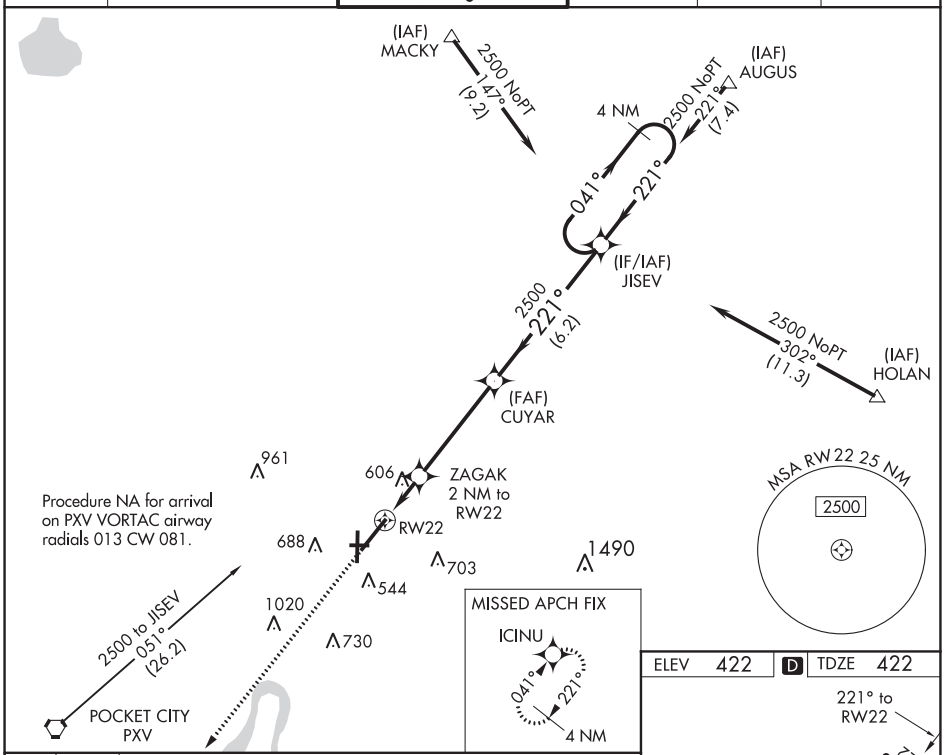
RNAV (GPS) RWY 22
EVANSVILLE RGNL (EVV)

ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 9 NA at night. ** RVR 1800 authorized with the use of FD or AP or HUD to DA.

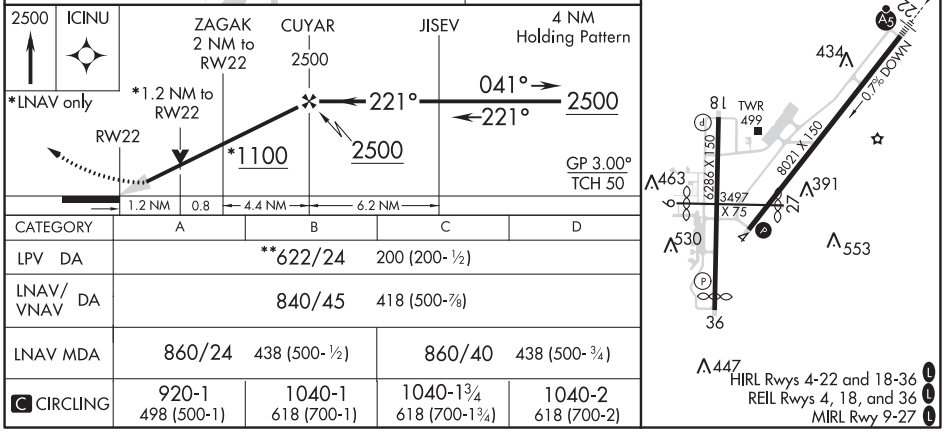
MALSR A5

MISSED APPROACH: Climb to 2500 direct ICINU and hold.

ATIS	EVANSVILLE APP CON ★		EVANSVILLE TOWER ★	GND CON	CLNC DEL	UNICOM
120.2	124.025	290.9	118.7 (CTAF) L 257.8	121.9	126.6	122.95



ELEV 422 | D | TDZE 422



CATEGORY	A	B	C	D
LPV DA	**622/24 200 (200-½)			
LNAV/VNAV DA	840/45 418 (500-⅞)			
LNAV MDA	860/24 438 (500-½)		860/40 438 (500-¾)	
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

HIRL Rwys 4-22 and 18-36 L
REIL Rwys 4, 18, and 36 L
MIRL Rwy 9-27 L

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EVANSVILLE, INDIANA
Amdt 1B 17AUG17

38°02'N - 87°32'W

EVANSVILLE RGNL (EVV)
RNAV (GPS) RWY 22

WAAS CH 90421 W36A	APP CRS 004°	Rwy ldg 5497 TDZE 384 Apt Elev 422

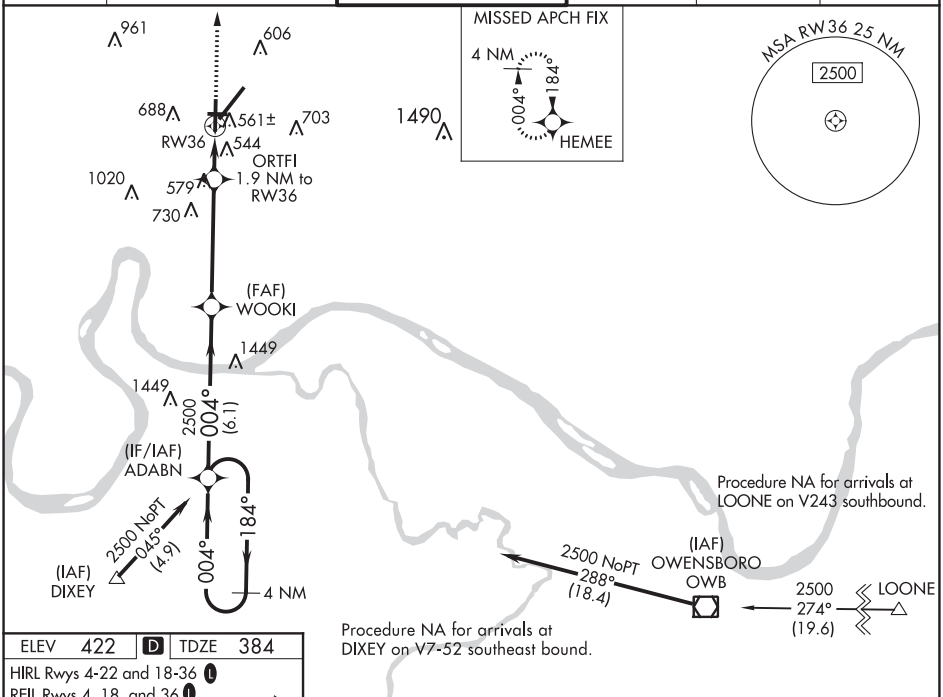
RNAV (GPS) RWY 36
EVANSVILLE RGNL (EVV)

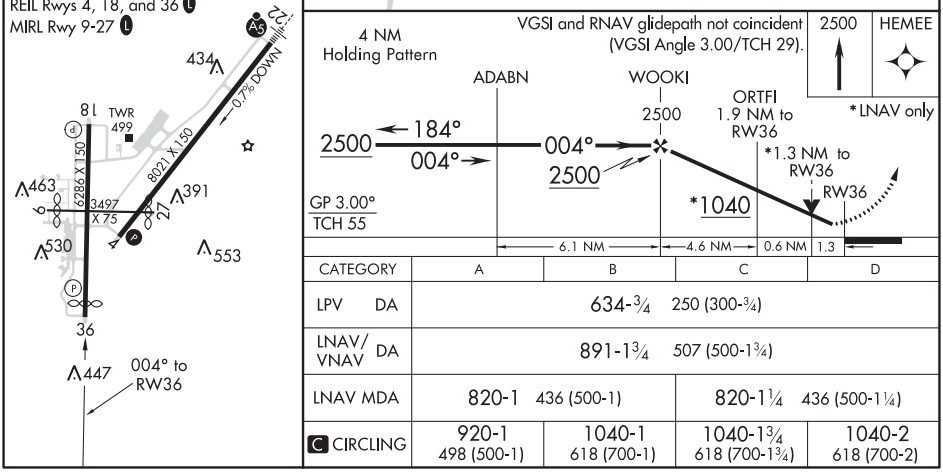
ASR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 9 NA at night. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct HEMEE and hold.

ATIS	EVANSVILLE APP CON ★	EVANSVILLE TOWER ★	GND CON	CLNC DEL	UNICOM
120.2	124.025 290.9	118.7 (CTAF) L 257.8	121.9	126.6	122.95





CATEGORY	A	B	C	D
LPV DA	634-¾ 250 (300-¾)			
LNAV/VNAV DA	891-1¾ 507 (500-1¾)			
LNAV MDA	820-1 436 (500-1)		820-1¼ 436 (500-1¼)	
C CIRCLING	920-1 498 (500-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

EVANSVILLE, INDIANA — AL-513 (FAA) — 19115

VOR RWY 4
EVANSVILLE RGNL (EVV)

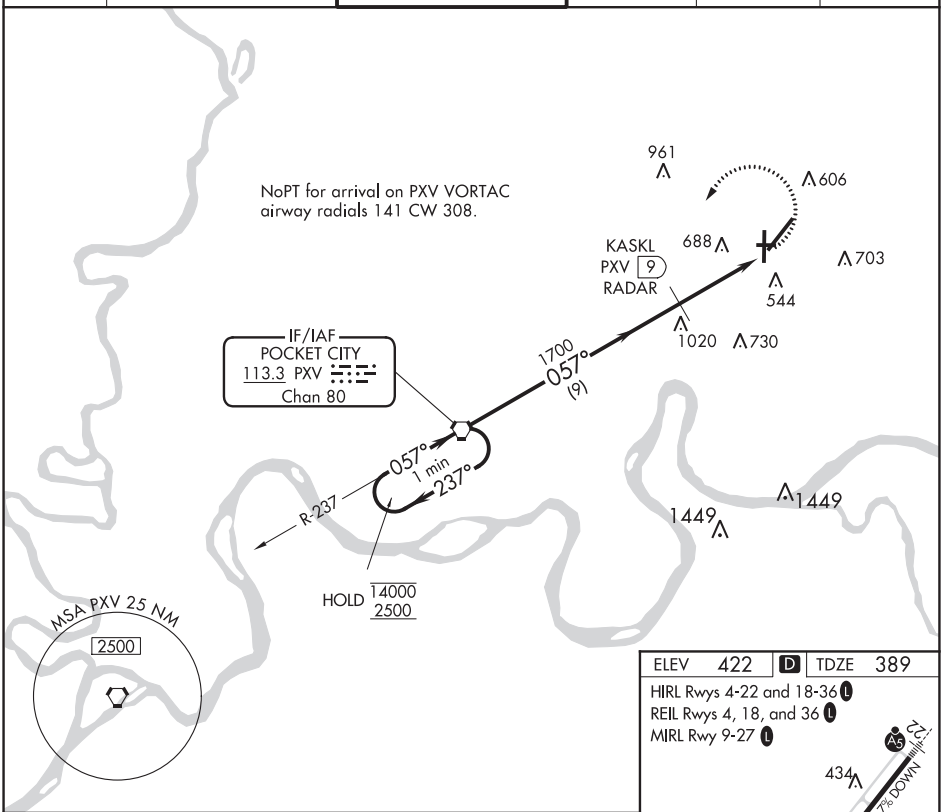
VORTAC PXV 113.3 Chan 80	APP CRS 057°	Rwy ldg 8021 TDZE 389 Apt Elev 422

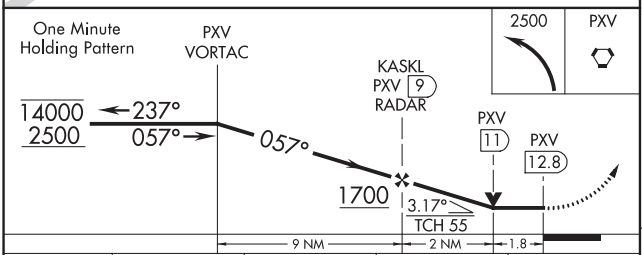
DME or RADAR required.

T ASR — RWY 4 helicopter visibility reduction below ¾ SM NA. Circling Rwy 9 NA at night.

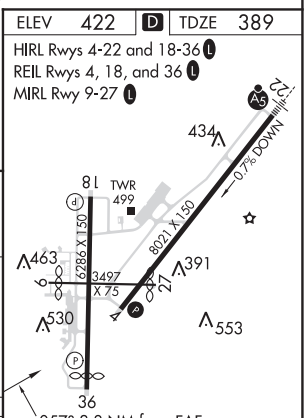
MISSED APPROACH: Climbing left turn to 2500 direct PXV VORTAC and hold.

ATIS	EVANSVILLE APP CON ★		EVANSVILLE TOWER ★		GND CON	CLNC DEL	UNICOM
120.2	124.025	290.9	118.7 (CTAF) L	257.8	121.9	126.6	122.95





CATEGORY	A	B	C	D
S-4	1000-1 611 (600-1)		1000-1¾ 611 (600-1¾)	
C CIRCLING	1000-1 578 (600-1)	1040-1 618 (700-1)	1040-1¾ 618 (700-1¾)	1040-2 618 (700-2)



FAF to MAP 3.8 NM					
Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

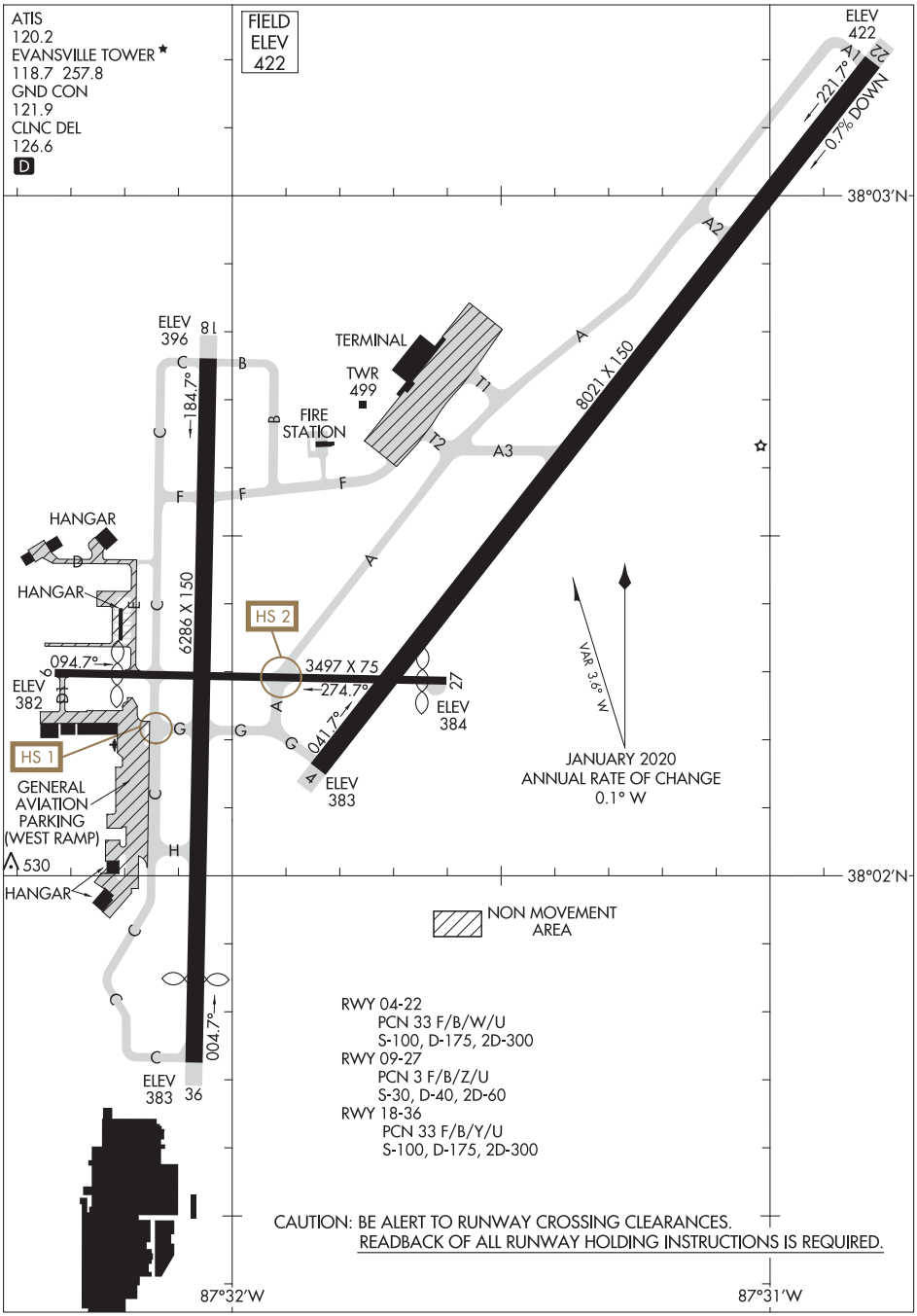
EVANSVILLE, INDIANA
Amdt 7A 13SEP18

38°02'N-87°32'W

EVANSVILLE RGNL (EVV)
VOR RWY 4

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021


ATIS
120.2
EVANSVILLE TOWER ★
118.7 257.8
GND CON
121.9
CLNC DEL
126.6
D
FIELD ELEV 422
ELEV 422
22
221.7°
0.7% DOWN
38°03'N
A2
A
8021 X 150
ELEV 396
18
184.7°
TERMINAL
TWR 499
FIRE STATION
T1
T2
A3
HANGAR
HANGAR
6286 X 150
HS 2
3497 X 75
094.7°
274.7°
27
ELEV 382
ELEV 384
041.7°
HS 1
GENERAL AVIATION PARKING (WEST RAMP)
530
ELEV 383
ELEV 383
VAR 3.6° W
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
38°02'N
HANGAR
NON MOVEMENT AREA
004.7°
36
RWY 04-22
PCN 33 F/B/W/U
S-100, D-175, 2D-300
RWY 09-27
PCN 3 F/B/Z/U
S-30, D-40, 2D-60
RWY 18-36
PCN 33 F/B/Y/U
S-100, D-175, 2D-300
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
87°32'W
87°31'W

FINDLAY, OHIO | AL-702 (FAA) | 18144

APP CRS	Rwy ldg	4558
074°	TDZE	810
	Apt Elev	813

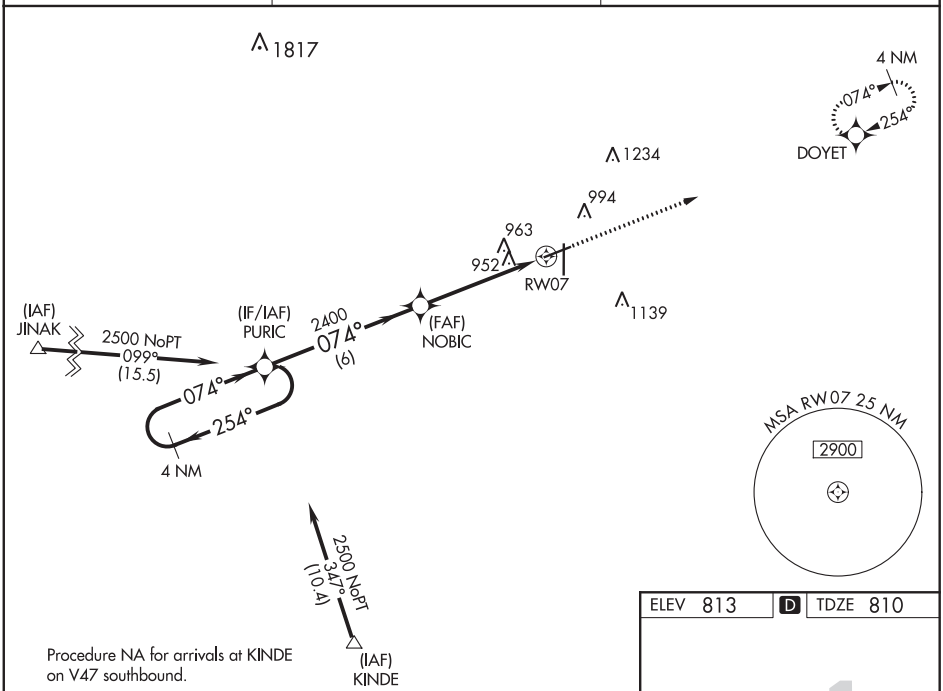
RNAV (GPS) RWY 7
FINDLAY (FDY)

RNP APCH

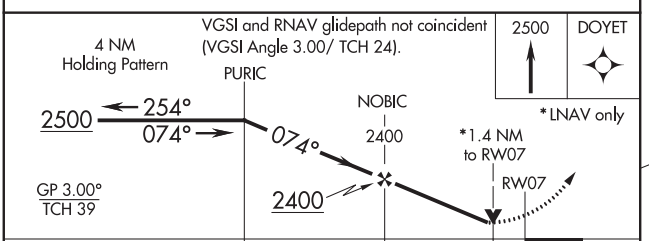
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C. Baro-VNAV and VDP NA when using Lima Allen County altimeter setting. Rwy 7 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Lima Allen County altimeter setting: increase DA to 1377 feet; increase all MDAs 80 feet; increase LNAV Cat C visibility ⅛ SM and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2500 direct DOYET and hold.

ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.725 (CTAF) L

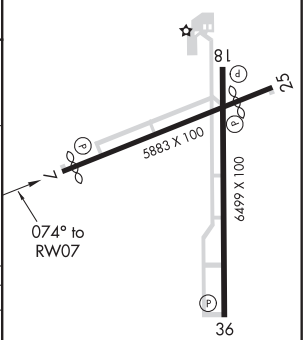


Procedure NA for arrivals at KINDE on V47 southbound.



CATEGORY	A	B	C	D
LNAV/VNAV DA	1297-1¾ 487 (500-1¾)			
LNAV MDA	1260-1 450 (500-1)		1260-1⅜ 450 (500-1⅜)	1260-1½ 450 (500-1½)
CIRCLING	1440-1 627 (700-1)		1440-1¾ 627 (700-1¾)	1440-2 627 (700-2)

ELEV 813 | D | TDZE 810



HIRL Rwys 7-25 and 18-36 L
REIL Rwys 7, 25 and 36 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH **70405** **W18A**	APP CRS **185°**	Rwy ldg **6499** TDZE **813** Apt Elev **813**

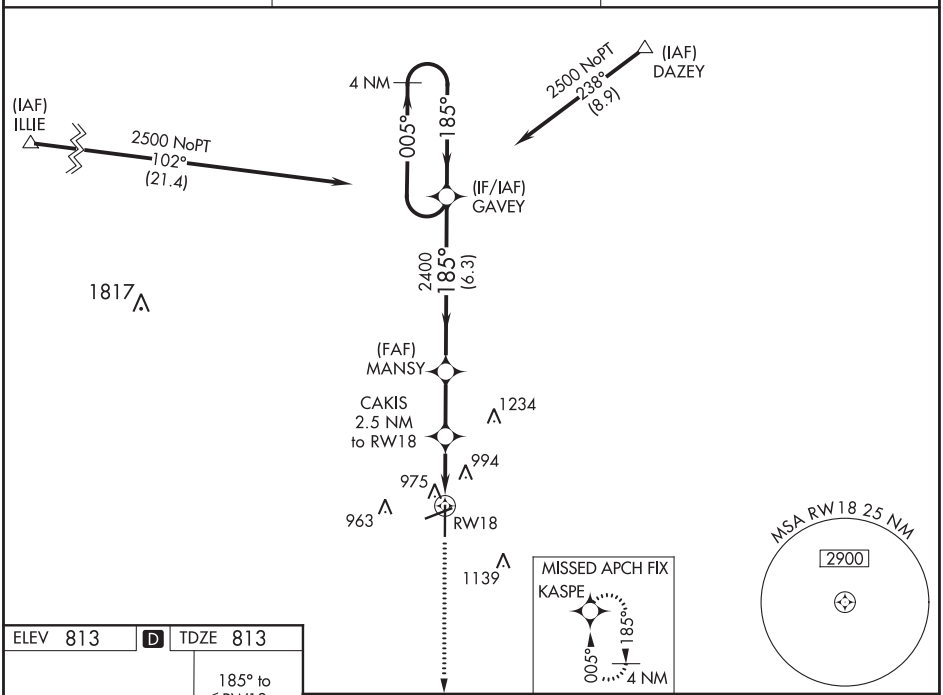
RNAV (GPS) RWY 18
FINDLAY (FDY)

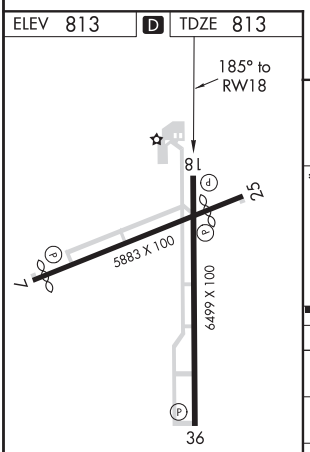
RNP APCH

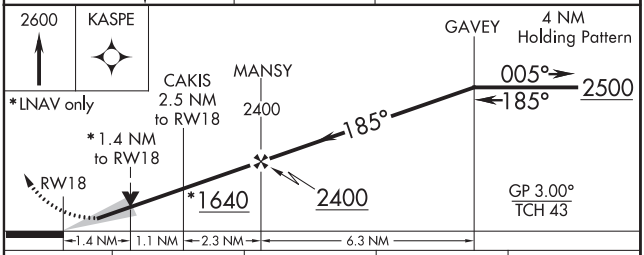
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C. Baro-VNAV and VDP NA when using Lima Allen County altimeter setting. When local altimeter setting not received, use Lima Allen County altimeter setting: increase all DAs/MDAs 80 feet; increase LNAV Cat C/D and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2600 direct KASPE and hold.

ASOS	TOLEDO APP CON	UNICOM
132.85	**120.8 317.55**	**122.725** (CTAF) L







CATEGORY	A	B	C	D
LPV DA	1063-1 250 (300-1)			
LNAV/VNAV DA	1320-1¾ 507 (600-1¾)			
LNAV MDA	1300-1 487 (500-1)		1300-1⅜ 487 (500-1⅜)	1300-1½ 487 (500-1½)
CIRCLING	1440-1 627 (700-1)		1440-1¾ 627 (700-1¾)	1440-2 627 (700-2)

HIRL Rwys 7-25 and 18-36 L
REIL Rwys 7, 25 and 36 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FINDLAY, OHIO — AL-702 (FAA) — 18284

WAAS CH 56405 W25A	APP CRS 254°	Rwy ldg 4558 TDZE 812 Apt Elev 813

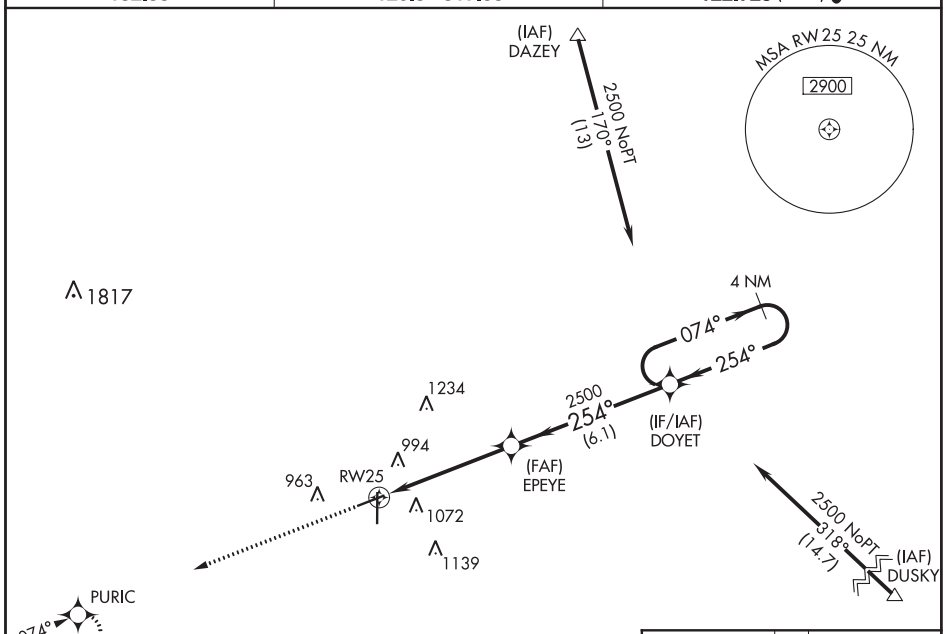
RNAV (GPS) RWY 25
FINDLAY (FDY)

RNP APCH

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C. Baro-VNAV and VDP NA when using Lima Allen County altimeter setting. When local altimeter setting not received, use Lima Allen County altimeter setting: increase all DAs/MDAs 80 feet; increase LPV visibility ⅛ SM all Cats; increase LNAV Cat C/D and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2500 direct PURIC and hold.

ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.725 (CTAF) L



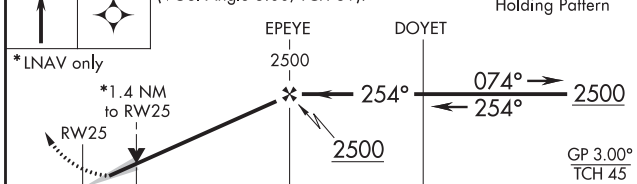
ELEV 813 D TDZE 812

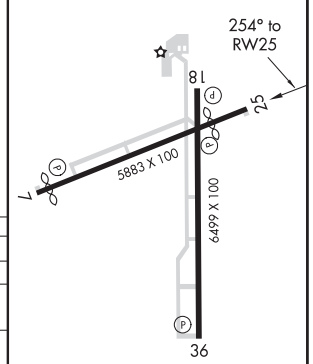
2500 PURIC

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 31).

4 NM Holding Pattern

*LNAV only





CATEGORY	A	B	C	D
LPV DA	1116-1 304 (400-1)			
LNAV/VNAV DA	1411-2 599 (600-2)			
LNAV MDA	1280-1 468 (500-1)		1280-1⅜ 468 (500-1⅜)	1280-1½ 468 (500-1½)
CIRCLING	1440-1 627 (700-1)		1440-1¾ 627 (700-1¾)	1440-2 627 (700-2)

HIRL Rwys 7-25 and 18-36 L
REIL Rwys 7, 25 and 36 L

FINDLAY, OHIO — 41°01′N-83°40′W — FINDLAY (FDY)
Amdt 1A 24MAY18

RNAV (GPS) RWY 25

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 72705 W36A	APP CRS 005°	Rwy ldg 6499 TDZE 809 Apt Elev 813

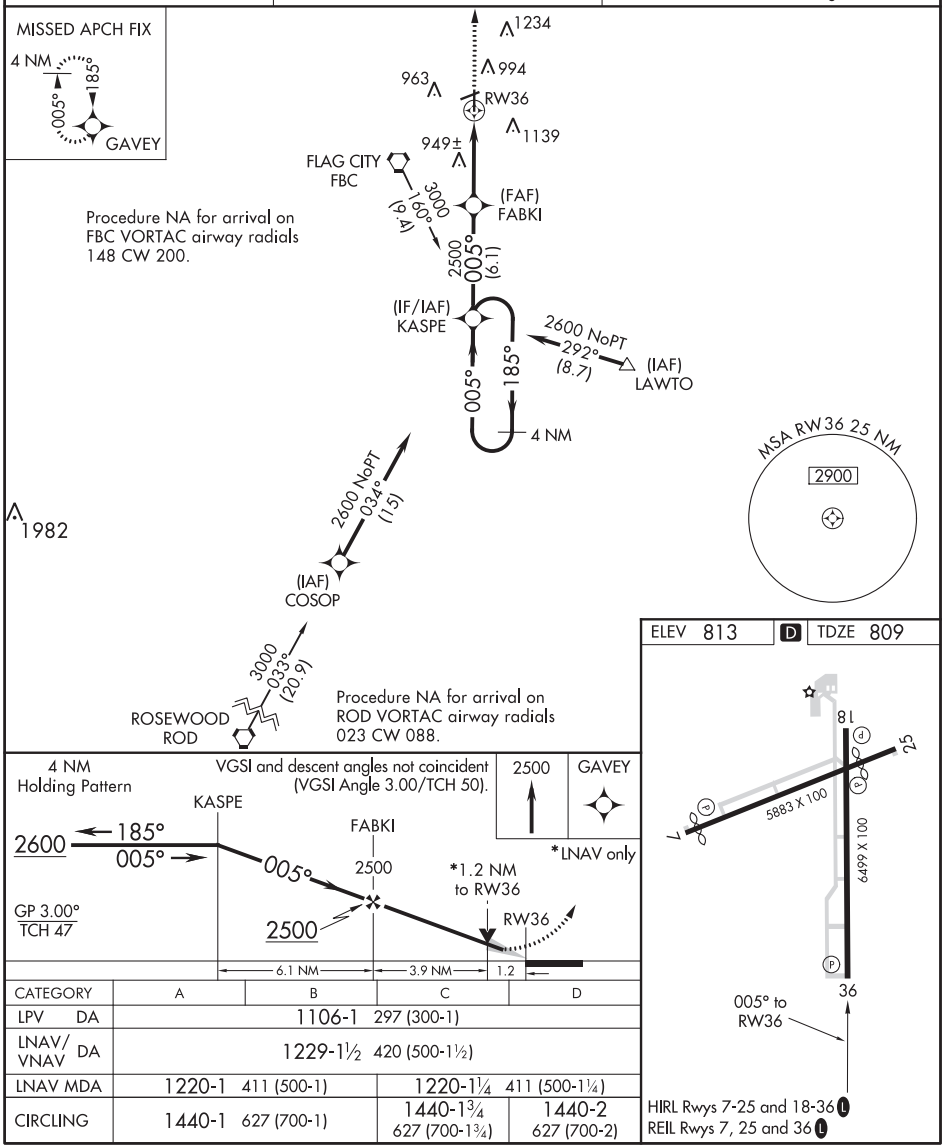
RNAV (GPS) RWY 36
FINDLAY (FDY)

RNP APCH

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C.
Baro-VNAV and VDP NA when using Lima Allen County altimeter setting.
When local altimeter setting not received, use Lima Allen County altimeter setting: increase all DAs/MDAs 80 feet; increase LNAV Cat C/D visibility ⅛ SM and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2500 direct GAVEY and hold.

ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.725 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1106-1 297 (300-1)			
LNAV/VNAV DA	1229-1½ 420 (500-1½)			
LNAV MDA	1220-1 411 (500-1)		1220-1¼ 411 (500-1¼)	
CIRCLING	1440-1 627 (700-1)		1440-1¾ 627 (700-1¾)	1440-2 627 (700-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FINDLAY, OHIO | AL-702 (FAA) | 20086

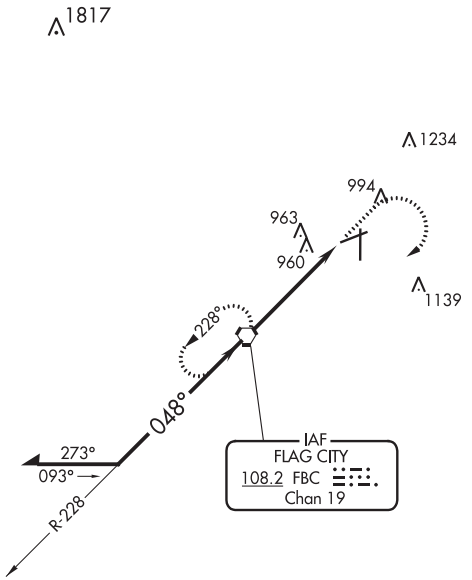
VOR RWY 7
FINDLAY (FDY)

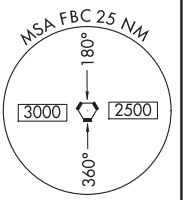
VORTAC FBC	APP CRS	Rwy ldg 4558
108.2	048°	TDZE 809
Chan 19		Apt Elev 813

Visibility reduction by helicopters NA. When local altimeter setting not received, use Lima Allen County altimeter setting and increase all MDA 80 feet, and increase S-07 and Circling Cats C/D visibility ¼ mile.

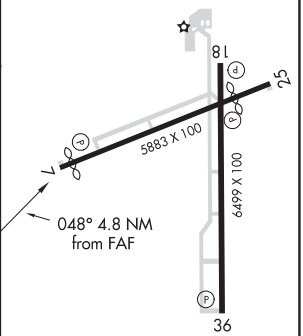
MISSED APPROACH: Climb to 2500 then right turn direct FBC VORTAC and hold.

ASOS	TOLEDO APP CON	UNICOM
132.85	120.8 317.55	122.725 (CTAF) L

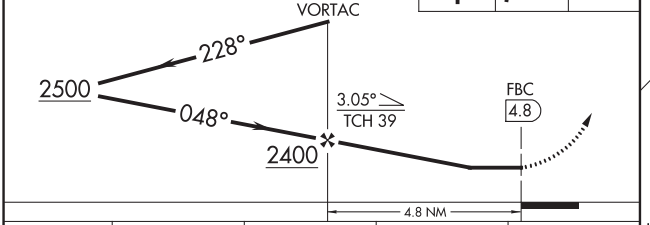




ELEV 813 | D | TDZE 809



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 24).



HIRL Rwys 7-25 and 18-36 L
REIL Rwys 7, 25 and 36 L

CATEGORY	A	B	C	D
S-7	1260-1 451 (500-1)		1260-1¼ 451 (500-1¼)	1260-1½ 451 (500-1½)
CIRCLING	1440-1 627 (700-1)		1440-1¾ 627 (700-1¾)	1440-2 627 (700-2)

FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-HVD	APP CRS	Rwy ldg	11981
111.9	050°	TDZE	815
		Apt Elev	815

ILS or LOC RWY 5
FORT WAYNE INTL (FWA)

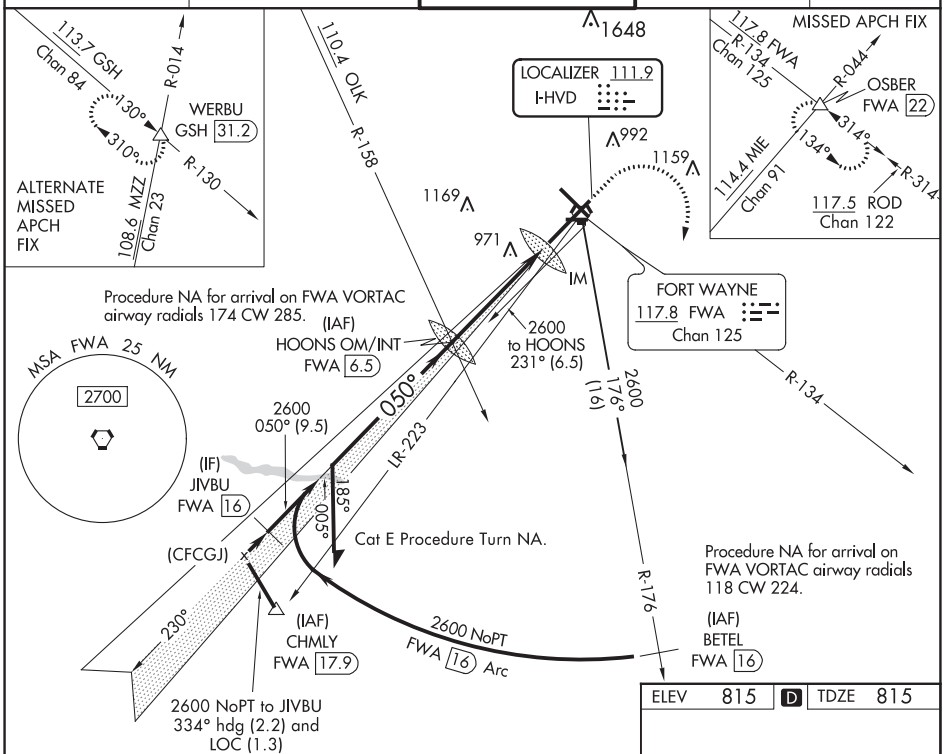
For inop ALS, increase S-ILS 5 Cat E visibility to RVR 4000 and S-LOC 5 Cat C/D/E visibility to 1½ SM.

ASR

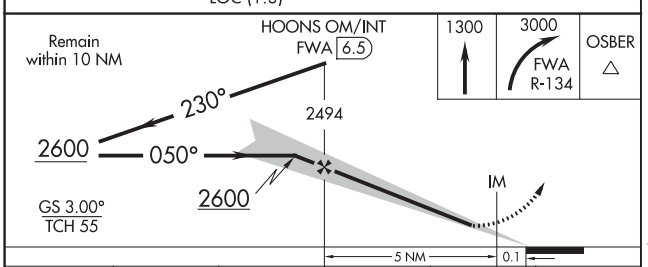
ALSF-2

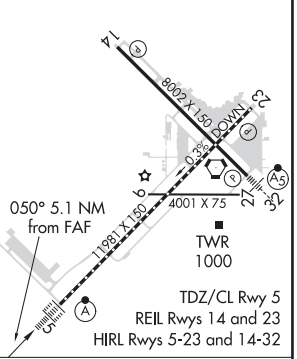
MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 on FWA R-134 to OSBER INT/FWA 22 DME and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75



ELEV	815	D	TDZE	815





CATEGORY	A	B	C	D	E
S-ILS 5	1015/18 200 (200-½)				1015/24 200 (200-½)
S-LOC 5	1300/24 485 (500-½)		1300/50 485 (500-1)		
C CIRCLING	1300-1 485 (500-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-FWA	APP CRS	Rwy ldg	8001
109.9	321°	TDZE	800
Chan 36		Apt Elev	815

ILS or LOC RWY 32
FORT WAYNE INTL (FWA)

DME required for LOC only. DME or RADAR required for procedure entry.

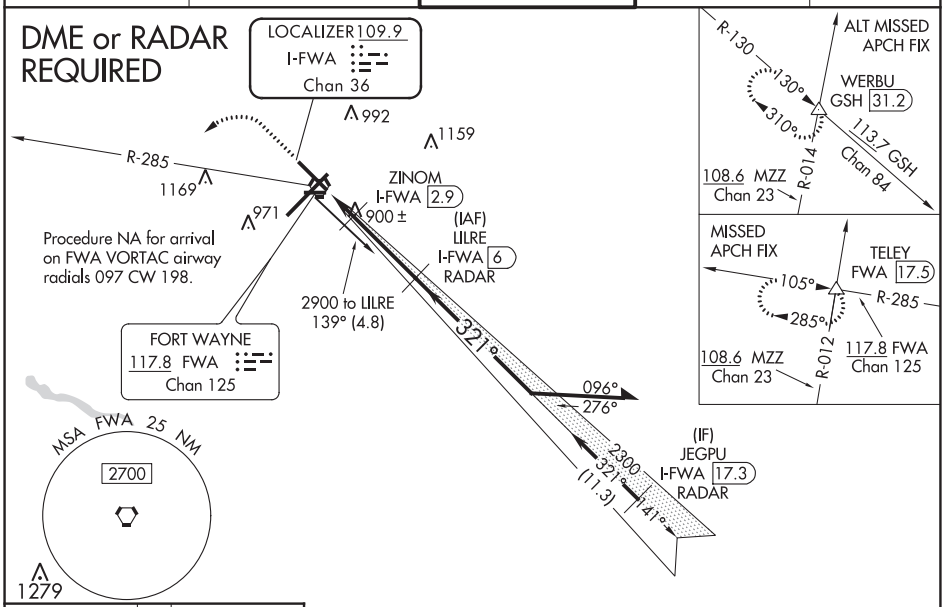
ASR

For inop ALS, increase S-ILS 32 Cat E visibility to RVR 4000, S-LOC 32 Cat E visibility to RVR 6000. Use I-FWA DME when on the localizer course.
RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

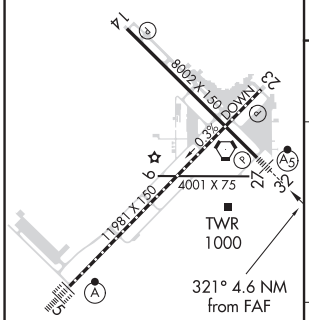
MISSED APPROACH: Climb to 3000 then left turn on FWA VORTAC R-285 to TELEY INT/FWA 17.5 DME and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75



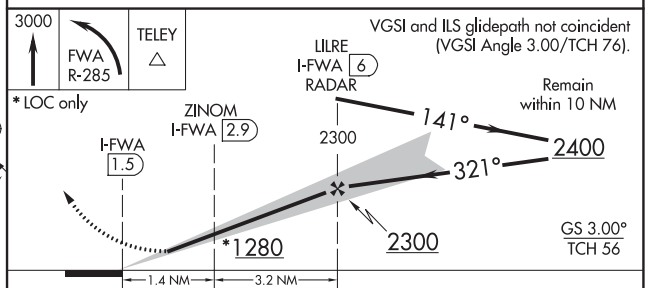
ELEV	815	D	TDZE	800

Cat E Procedure Turn NA.



TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D	E
S-ILS 32	#1000/24 200 (200-½)				
S-LOC 32	1160/24 360 (400-½)		1160/40 360 (400-¾)		
C CIRCLING	1300-1 485 (500-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-HVD	APP CRS	Rwy ldg	11981
111.9	050°	TDZE	815
		Apt Elev	815

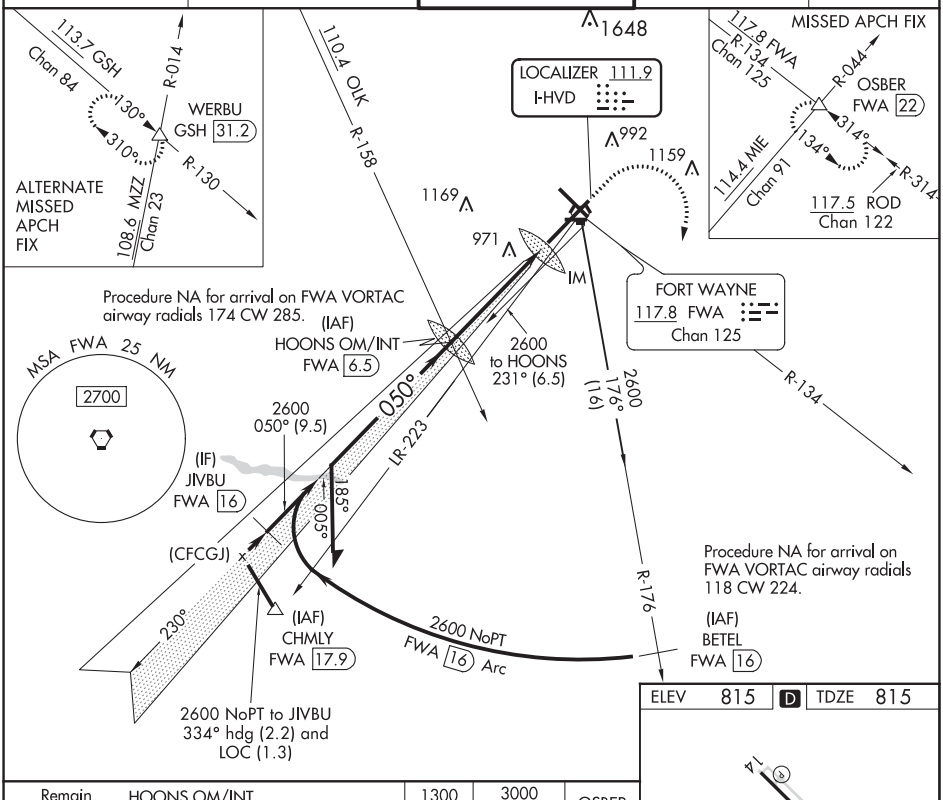
ILS RWY 5 (CAT II)
FORT WAYNE INTL (FWA)

ASR

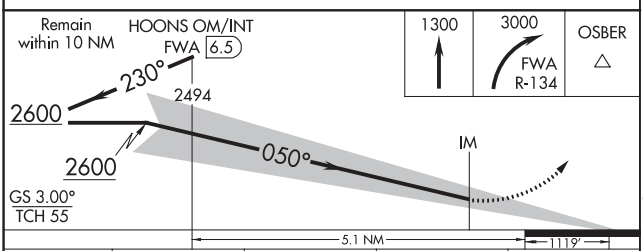
ALSF-2

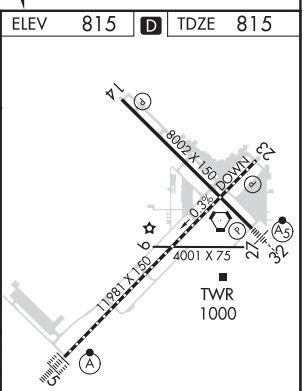
MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 on FWA R-134 to OSBER INT/FWA 22 DME and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75



ELEV	815	D	TDZE	815





CATEGORY	A	B	C	D
S-ILS 5	RA 106/12 100 DA 915			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

FORT WAYNE, INDIANA

AL-156 (FAA)

20366

RNAV (GPS) RWY 5
FORT WAYNE INTL (FWA)

WAAS CH 93609 W05A	APP CRS 050°	Rwy ldg 11981 TDZE 815 Apt Elev 815

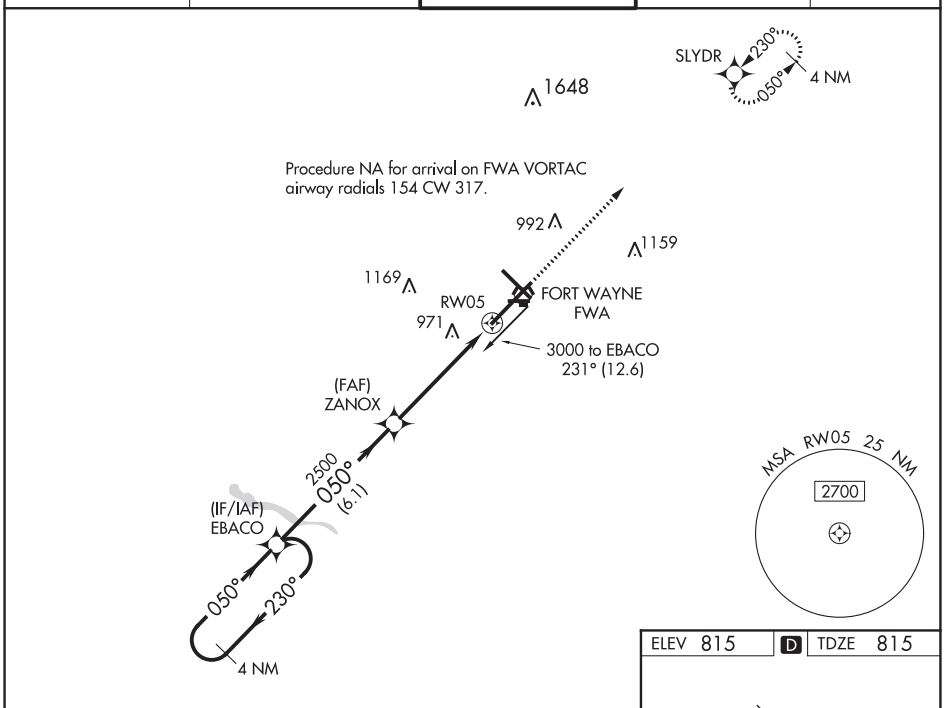
For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ SM and LNAV Cat C/D/E visibility to 1⅜ SM.

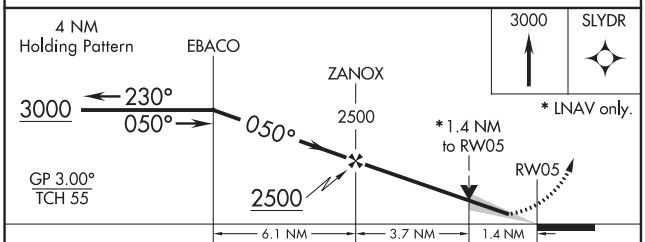
ASR

ALSF-2

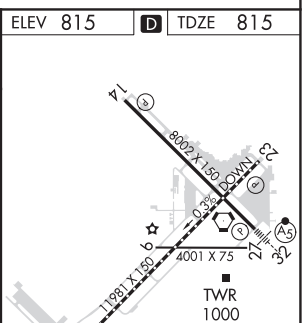
MISSED APPROACH: Climb to 3000 direct SLYDR and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75





CATEGORY	A	B	C	D	E
LPV DA	1065/18 250 (300-½)				
LNAV/VNAV DA	1275/60 460 (500-1¼)				
LNAV MDA	1300/24 485 (500-½)		1300/50 485 (500-1)		
C CIRCLING	1300-1 485 (500-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)



FORT WAYNE, INDIANA
Amdt 1B 12OCT17

40°59′N-85°12′W

FORT WAYNE INTL (FWA)
RNAV (GPS) RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86417 W14A	APP CRS 141°	Rwy ldg 8001 TDZE 802 Apt Elev 815

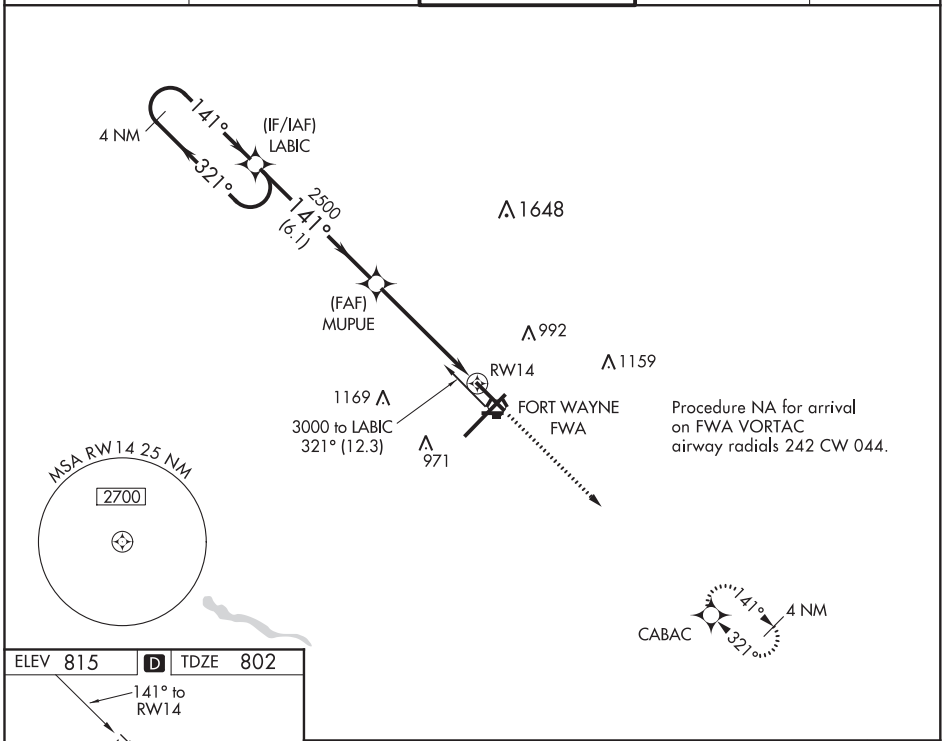
RNAV (GPS) RWY 14
FORT WAYNE INTL (FWA)

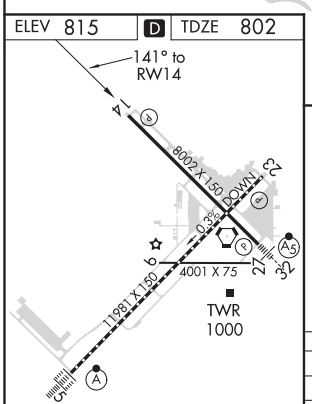
ASR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

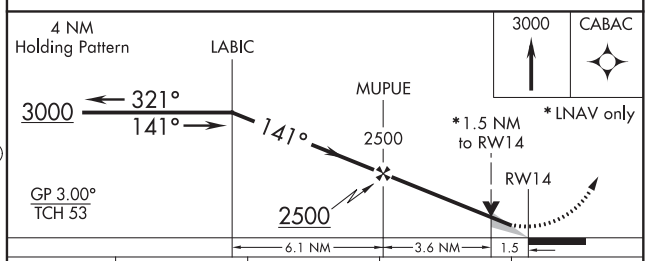
MISSED APPROACH: Climb to 3000 direct CABAC and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75





TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32



CATEGORY	A	B	C	D
LPV DA	1002-¾ 200 (200-¾)			
LNAV/VNAV DA	1199-1¼ 397 (400-1¼)			
LNAV MDA	1320-1 518 (600-1)		1320-1⅜ 518 (600-1⅜)	
C CIRCLING	1320-1 505 (600-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FORT WAYNE, INDIANA AL-156 (FAA) 20366

WAAS CH 69599 W23A	APP CRS 230°	Rwy ldg 11981 TDZE 799 Apt Elev 815

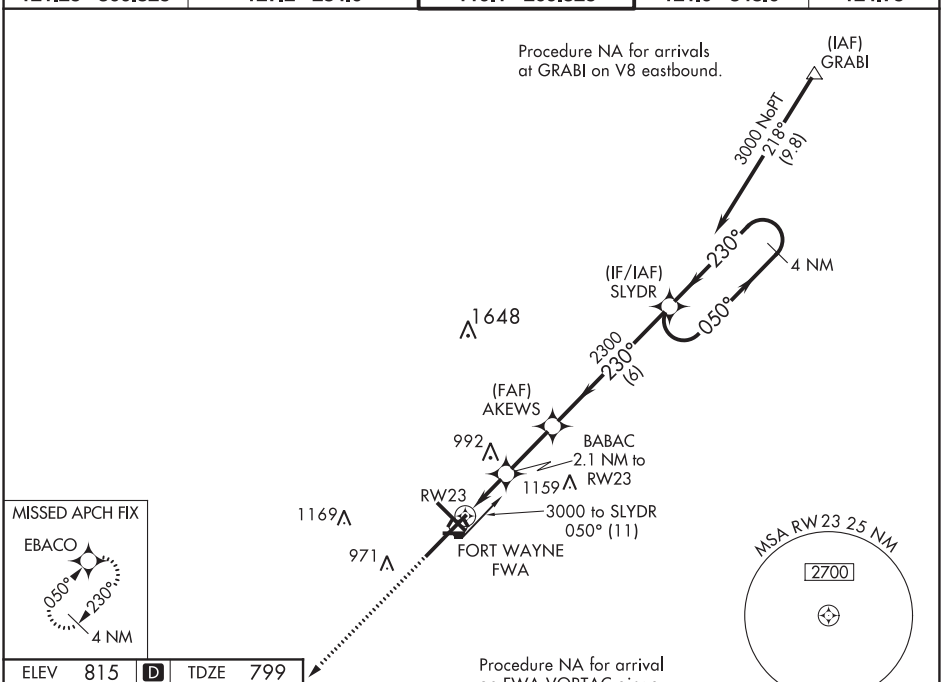
RNAV (GPS) RWY 23
FORT WAYNE INTL (FWA)

ASR

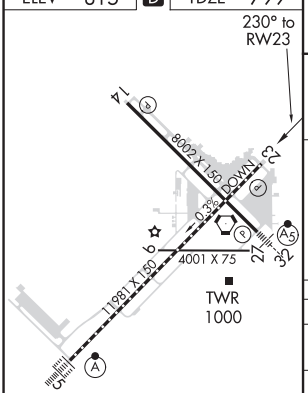
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct EBACO and hold.

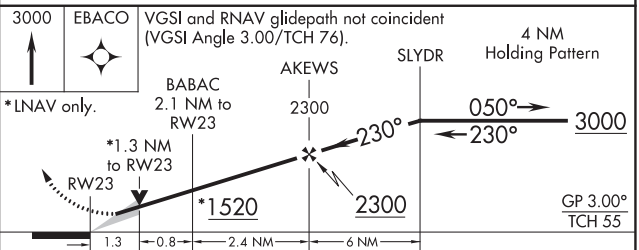
ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75



ELEV 815	D	TDZE 799



TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32



CATEGORY	A	B	C	D	E
LPV DA	1053/40 254 (300-¾)				
LNAV/VNAV DA	1230-1⅜ 431 (500-1⅜)				
LNAV MDA	1300/55 501 (500-1)		1300-1⅜ 501 (500-1⅜)		
C CIRCLING	1300-1 485 (500-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

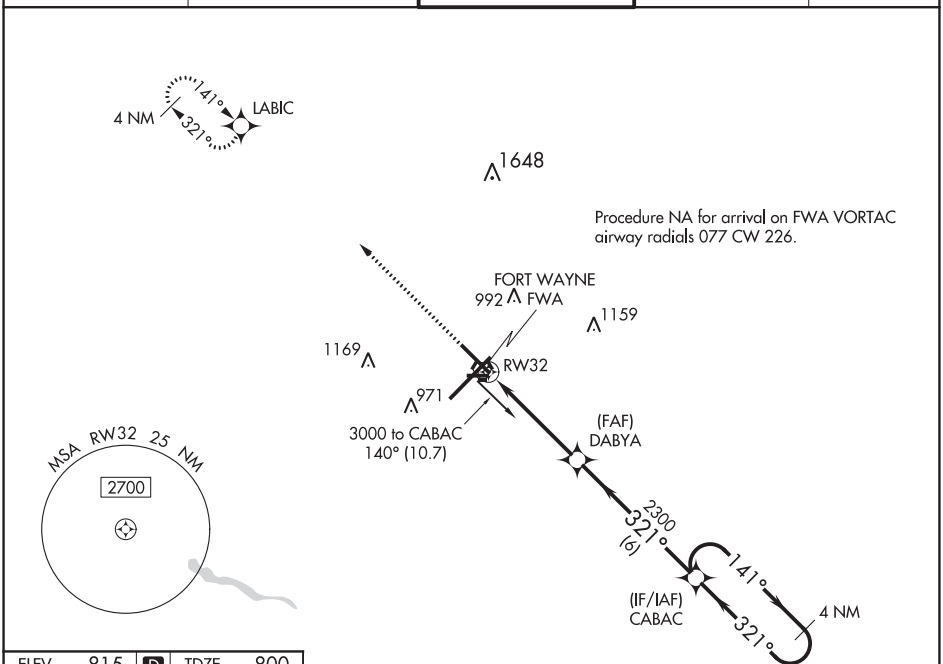
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

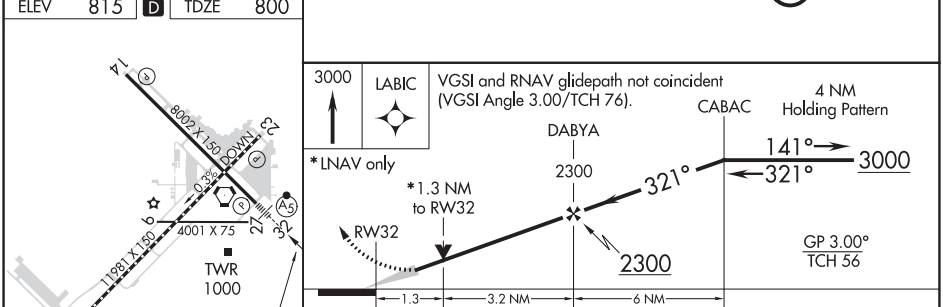
WAAS CH 82417 W32A	APP CRS 321°	Rwy ldg 8001 TDZE 800 Apt Elev 815

RNAV (GPS) RWY 32
FORT WAYNE INTL (FWA)

ASR	MALSR	
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. ** RVR 1800 authorized with use of FD or AP or HUD to DA.		MISSED APPROACH: Climb to 3000 direct LABIC and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75





CATEGORY	A	B	C	D
LPV DA	**1000/24 200 (200-½)			
LNAV/VNAV DA	1250/50 450 (500-1)			
LNAV MDA	1280/24 480 (500-½)		1280/50 480 (500-1)	
C CIRCLING	1300-1 485 (500-1)		1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)

TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FORT WAYNE, INDIANA

AL-156 (FAA)

20366

VOR or TACAN RWY 5

FORT WAYNE INTL (FWA)

VORTAC FWA	APP CRS	Rwy ldg	11981
117.8	054°	TDZE	815
Chan 125		Apt Elev	815

DME or RADAR required.

ASR

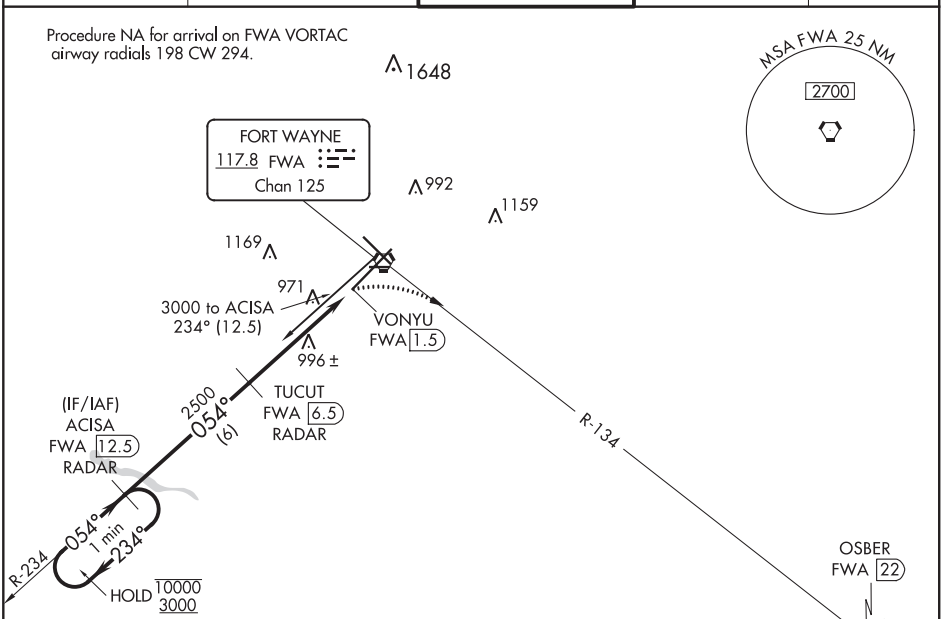
For inop ALS, increase S-5 Cat C/D/E visibility to 1⅜ SM.

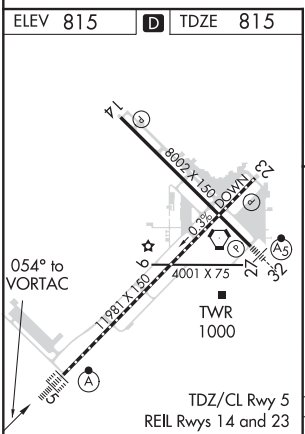
ALSF-2

MISSED APPROACH: Climbing right turn to 3000 on FWA VORTAC R-134 to OSBER INT/FWA 22 DME and hold.

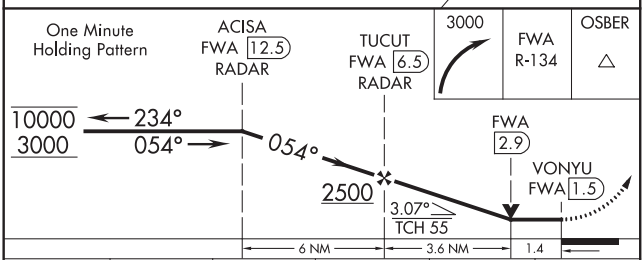
ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75

Procedure NA for arrival on FWA VORTAC airway radials 198 CW 294.





FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D	E
S-5	1320/24	505 (600-½)	1320/55	505 (600-1)	1320/60 505 (600-1¼)
C CIRCLING	1320-1	505 (600-1)	1360-1½ 545 (600-1½)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

FORT WAYNE, INDIANA

Amdt 20B 23MAY19

40°59′N-85°12′W

FORT WAYNE INTL (FWA)

VOR or TACAN RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

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VOR or TACAN RWY 14

FORT WAYNE INTL (FWA)

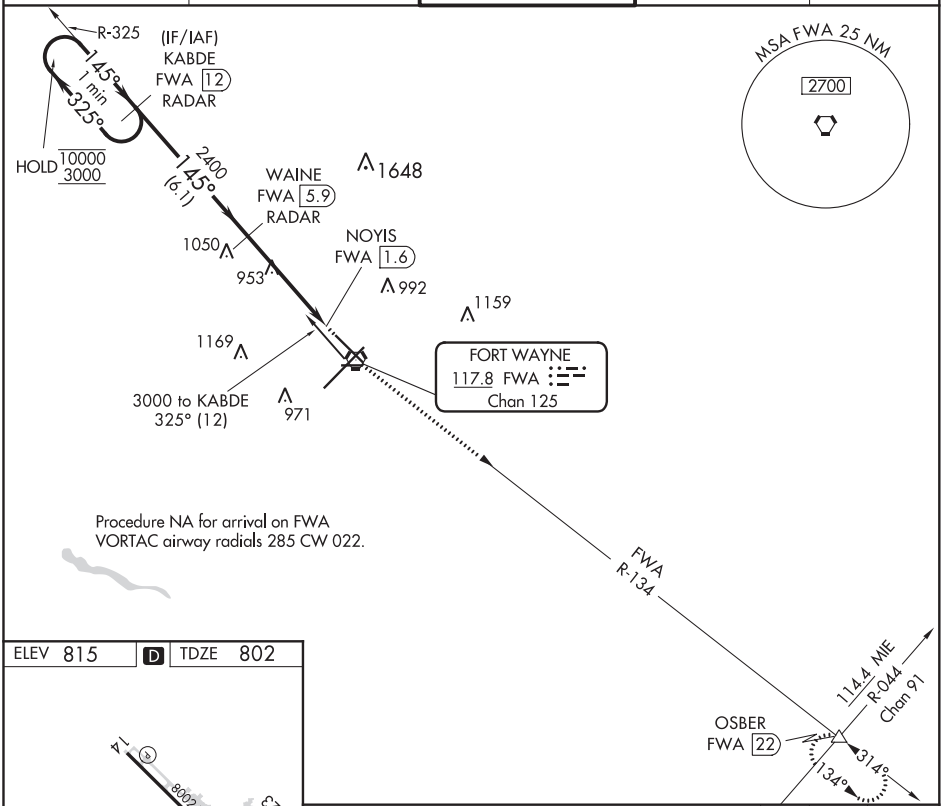
VORTAC FWA	APP CRS	Rwy ldg	8001
117.8	145°	TDZE	802
Chan 125		Apt Elev	815

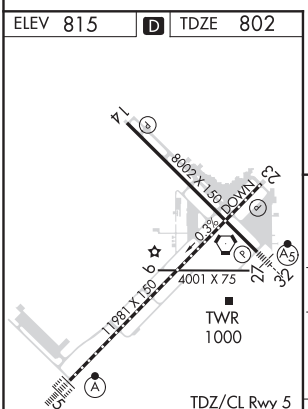
DME or RADAR required.

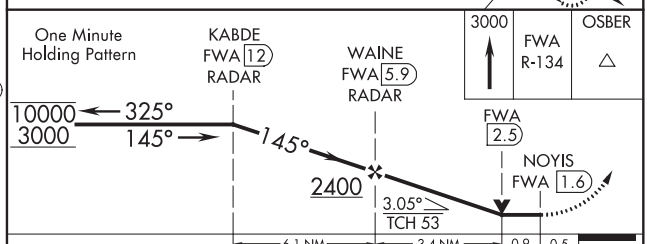
T
A
ASR

MISSED APPROACH: Climb to 3000 on FWA R-134 to OSBER INT/FWA 22 DME and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75







FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

CATEGORY	A	B	C	D	E
S-14	1280-1 478 (500-1)		1280-1⅜ 478 (500-1⅜)	1280-1½ 478 (500-1½)	1280-1¾ 478 (500-1¾)
C CIRCLING	1300-1 485 (500-1)		1360-1½ 545 (600-1½)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

FORT WAYNE, INDIANA — AL-156 (FAA) — 20366

VOR or TACAN RWY 23

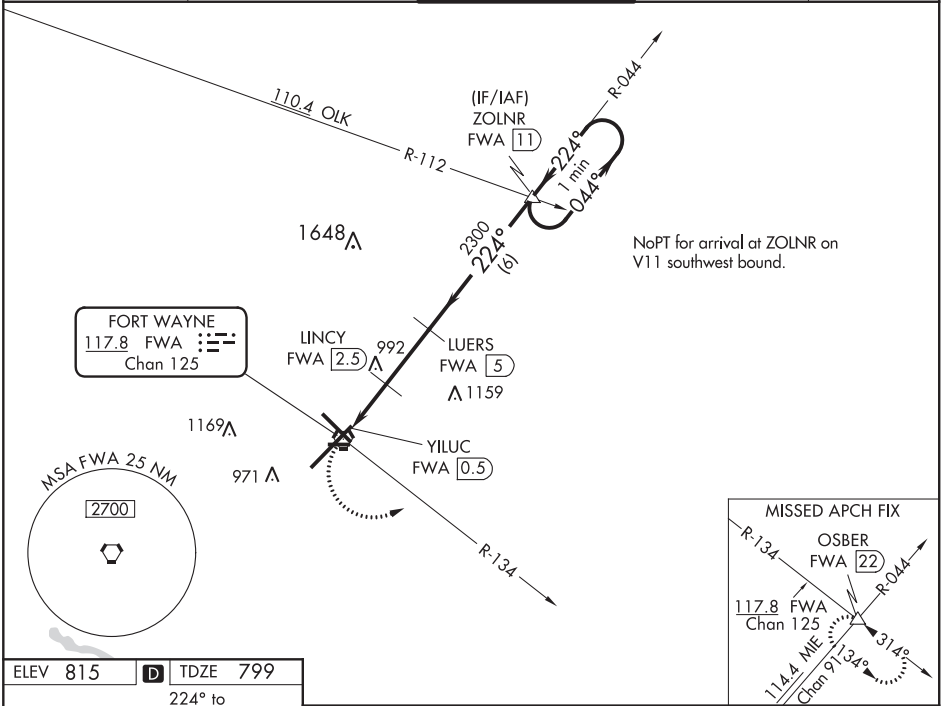
FORT WAYNE INTL (FWA)

VORTAC FWA	APP CRS	Rwy ldg	11981
117.8	224°	TDZE	799
Chan 125		Apt Elev	815

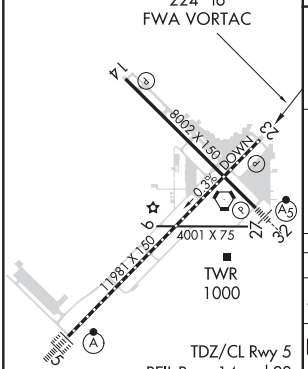
ASR

MISSED APPROACH: Climbing left turn to 3000 on FWA VORTAC R-134 to OSBER INT/FWA 22 DME and hold.

ATIS	FORT WAYNE APP CON	FORT WAYNE TOWER	GND CON	CLNC DEL
121.25 360.825	127.2 284.6	119.1 269.325	121.9 348.6	124.75

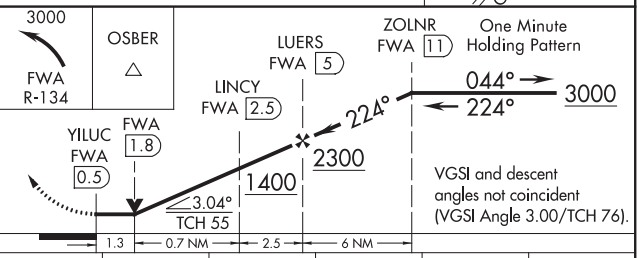


ELEV 815	D	TDZE 799



TDZ/CL Rwy 5
REIL Rwys 14 and 23
HIRL Rwys 5-23 and 14-32

FAF to MAP 4.5 NM					
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30



CATEGORY	A	B	C	D	E
S-23	1400/55	601 (600-1)	1400-1¾	601 (600-1¾)	
C CIRCLING	1400-1	585 (600-1)	1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)
LINCY FIX MINIMUMS					
S-23	1300/55	501 (500-1)	1300-1⅜	501 (500-1⅜)	
C CIRCLING	1300-1	485 (500-1)	1420-1¾ 605 (700-1¾)	1520-2¼ 705 (800-2¼)	1520-2½ 705 (800-2½)

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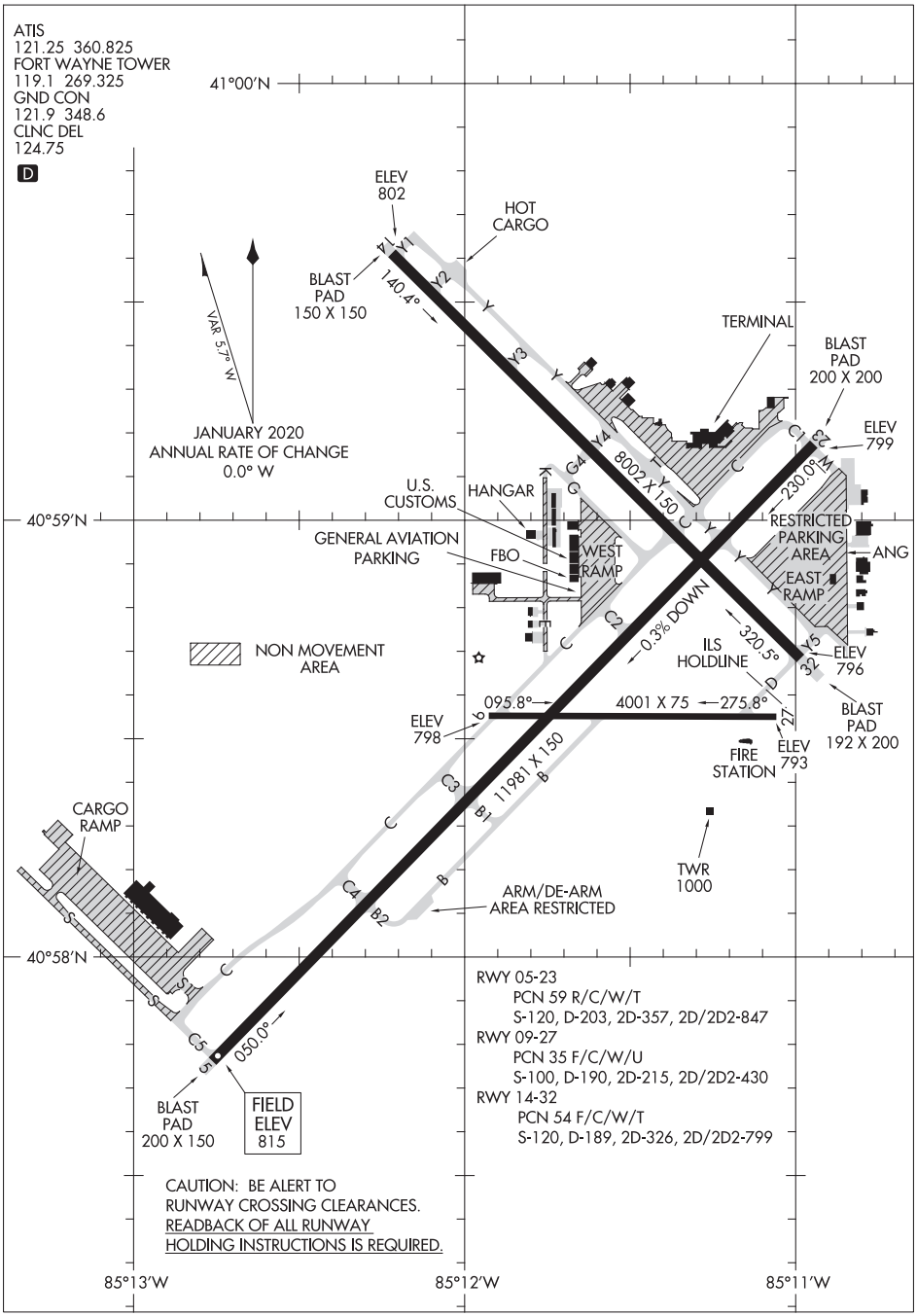
EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

FORT WAYNE, INDIANA | AL-157 (FAA) | 20254

RNAV (GPS) RWY 5
SMITH FIELD (SMD)

APP CRS	Rwy ldg	3035
056°	TDZE	834
	Apt Elev	836

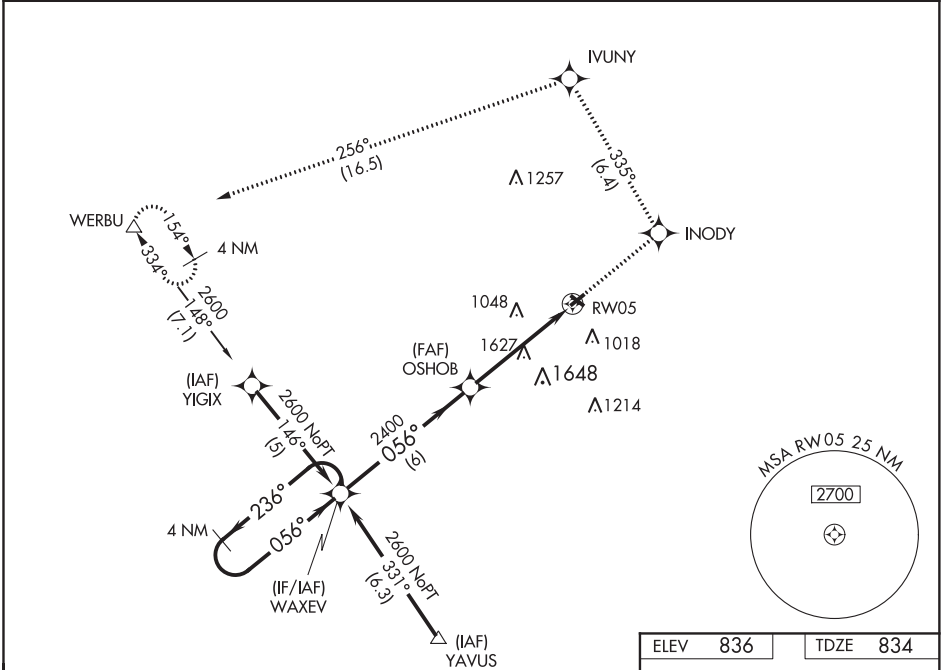
RNP APCH.

When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 40 feet. Procedure NA at night. Rwy 5 helicopter visibility reduction below 1 SM NA.

-22°C

MISSED APPROACH: Climb to 2700 direct INODY and on track 335° to IVUNY and on track 256° to WERBU and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
124.55	127.2 284.6	122.8 (CTAF) L

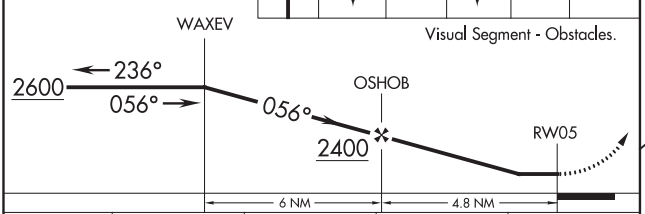


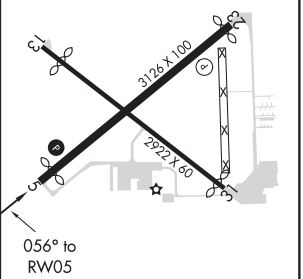
ELEV	836	TDZE	834

4 NM
Holding Pattern

2700	INODY	tr 335°	IVUNY	tr 256°	WERBU

Visual Segment - Obstacles.





CATEGORY	A	B	C	D
LNAV MDA	1880-1¼ 1046 (1100-1¼)	1880-1½ 1046 (1100-1½)	1880-3 1046 (1100-3)	NA
C CIRCLING	1880-1¼ 1044 (1100-1¼)	1880-1½ 1044 (1100-1½)	1940-3 1104 (1200-3)	NA

MIRL Rwys 5-23 and 13-31 L

FORT WAYNE, INDIANA
Orig-A 28FEB19

41°09′N-85°09′W

SMITH FIELD (SMD)
RNAV (GPS) RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 69220 W13A	APP CRS 133°	Rwy ldg 2623 TDZE 836 Apt Elev 836

RNAV (GPS) RWY 13
SMITH FIELD (SMD)

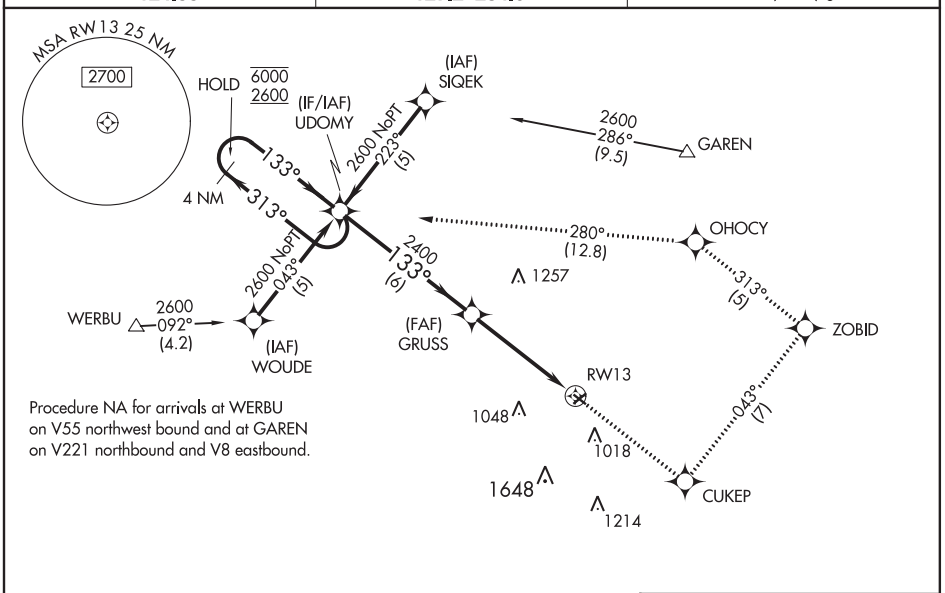
RNP APCH.

T
NA
-22°C

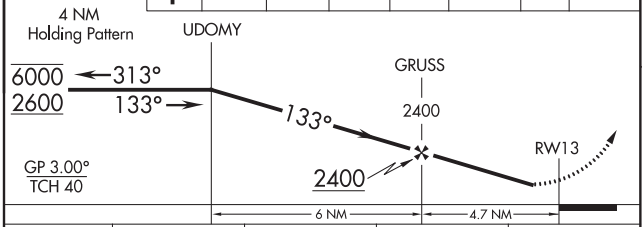
Procedure NA at night. Rwy 13 helicopter visibility reduction below 1 SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Fort Wayne Intl altimeter setting: increase LPV DA to 1162 feet; LNAV/VNAV DA to 1435 feet; increase all MDA 40 feet and LNAV Cat C visibility ¼ SM. Baro-VNAV NA when using Fort Wayne Intl altimeter setting.

MISSED APPROACH: Climb to 2600 direct CUKEP and on track 043° to ZOBID and on track 313° to OHOCY and on track 280° to UDOMY and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
124.55	127.2 284.6	122.8 (CTAF) L

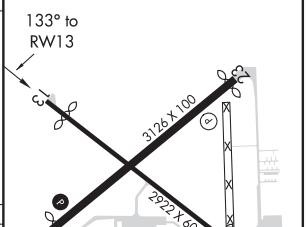


2600	CUKEP	tr 043°	ZOBID	tr 313°	OHOCY	tr 280°	UDOMY



CATEGORY	A	B	C	D
LPV DA	1135-1 299 (300-1)			NA
LNAV/VNAV DA	1408-2 572 (600-2)			NA
LNAV MDA	1340-1 504 (600-1)		1340-1½ 504 (600-1½)	NA
C CIRCLING	1400-1 564 (600-1)		1940-3 1104 (1200-3)	NA

ELEV 836 TDZE 836



MIRL Rwys 5-23 and 13-31 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FORT WAYNE, INDIANA | AL-157 (FAA) | 20254

RNAV (GPS) RWY 23

SMITH FIELD (SMD)

WAAS CH 65738 W23A	APP CRS 236°	Rwy ldg 3035 TDZE 834 Apt Elev 836

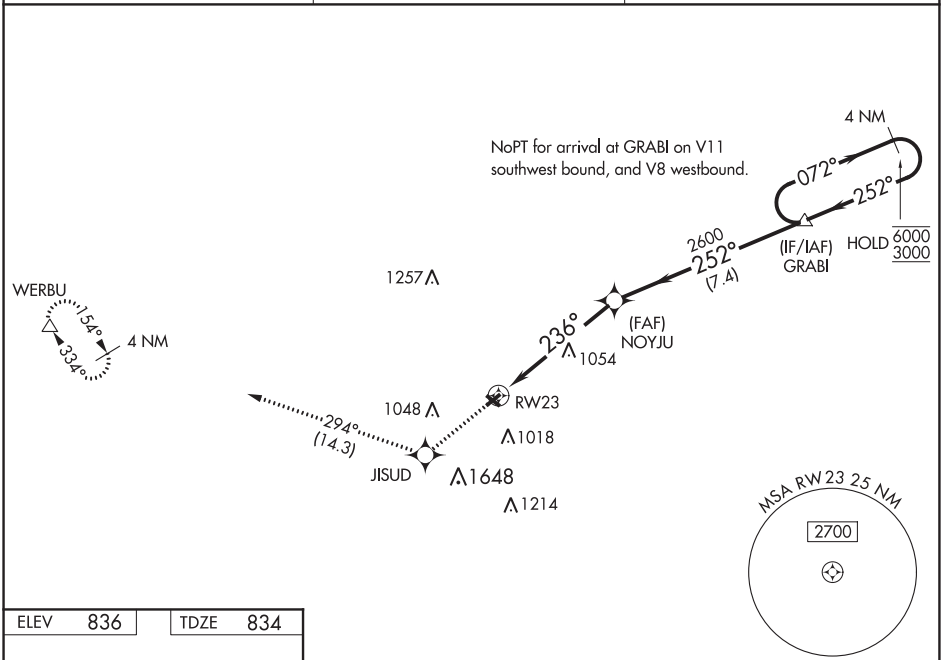
RNP APCH.

NA
-22°C

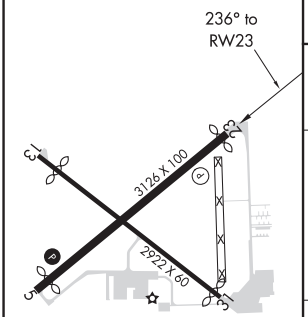
Procedure NA at night. Rwy 23 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 40 feet and LP and LNAV Cat C visibility ⅛ SM.

MISSED APPROACH: Climb to 2700 direct JISUD and on track 294° to WERBU and hold.

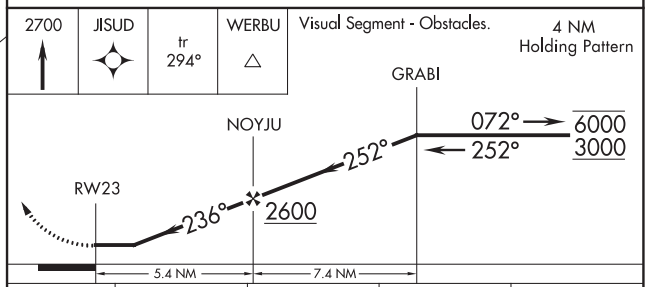
AWOS-3	FORT WAYNE APP CON	UNICOM
124.55	127.2 284.6	122.8 (CTAF)



ELEV 836	TDZE 834



MIRL Rwys 5-23 and 13-31



CATEGORY	A	B	C	D
LP MDA	1360-1 526 (600-1)		1360-1½ 526 (600-1½)	NA
LNAV MDA	1400-1 566 (600-1)		1400-1⅝ 566 (600-1⅝)	NA
C CIRCLING	1400-1 564 (600-1)		1940-3 1104 (1200-3)	NA

FORT WAYNE, INDIANA
Amdt 1A 20JUN19

41°09'N-85°09'W

SMITH FIELD (SMD)

RNAV (GPS) RWY 23

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RNAV (GPS) RWY 31
SMITH FIELD (SMD)

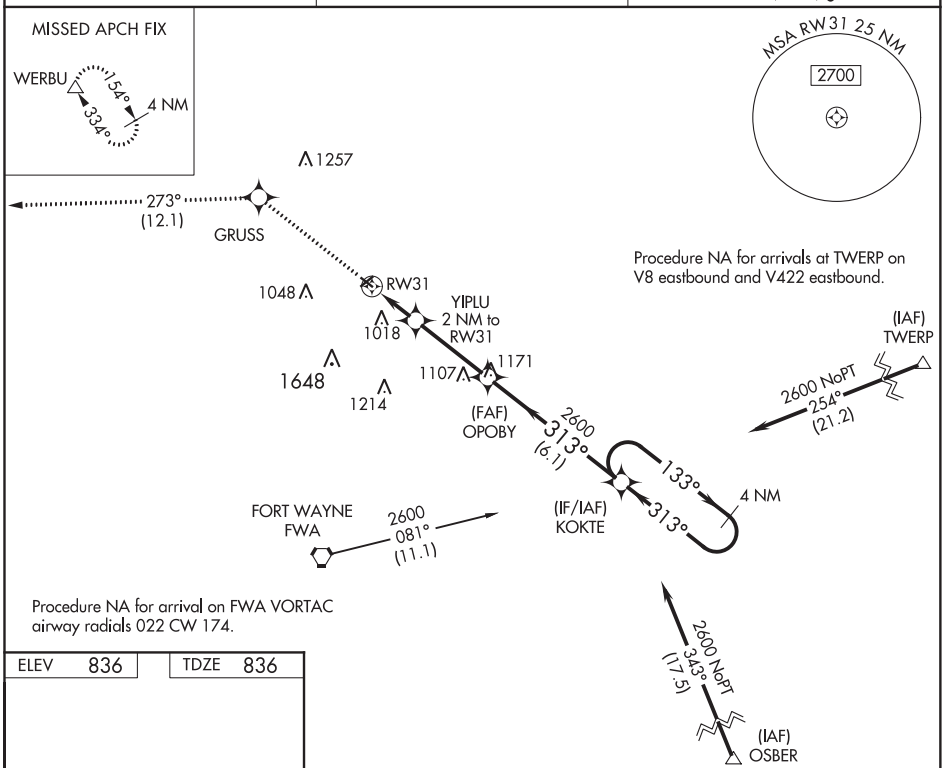
WAAS CH 77638 W31A	APP CRS 313°	Rwy ldg 2821 TDZE 836 Apt Elev 836

Rwy 31 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA. Procedure NA at night. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 40 feet, LP Cat C visibility ¼ SM and LNAV Cat C visibility ⅛ SM.

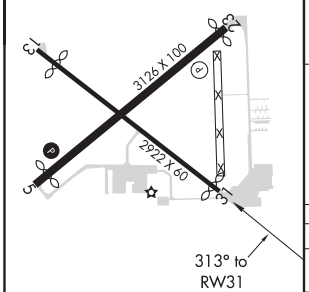
NA
-22°C

MISSED APPROACH: Climb to 2700 direct GRUSS and on track 273° to WERBU and hold.

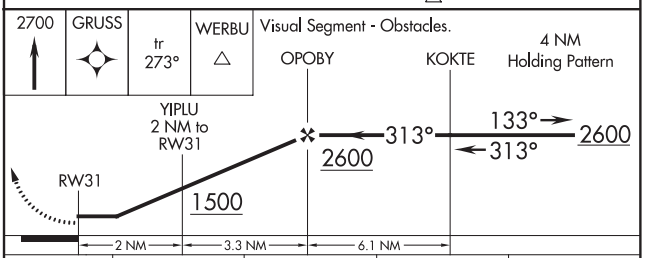
AWOS-3	FORT WAYNE APP CON	UNICOM
124.55	127.2 284.6	122.8 (CTAF) L



ELEV 836	TDZE 836



MIRL Rwys 5-23 and 13-31 L



CATEGORY	A	B	C	D
LP MDA	1240-1 404 (500-1)		1240-1⅛ 404 (500-1⅛)	NA
LNAV MDA	1260-1 424 (500-1)		1260-1¼ 424 (500-1¼)	NA
C CIRCLING	1400-1 564 (600-1)		1940-3 1104 (1200-3)	NA

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VOR RWY 13
SMITH FIELD (SMD)

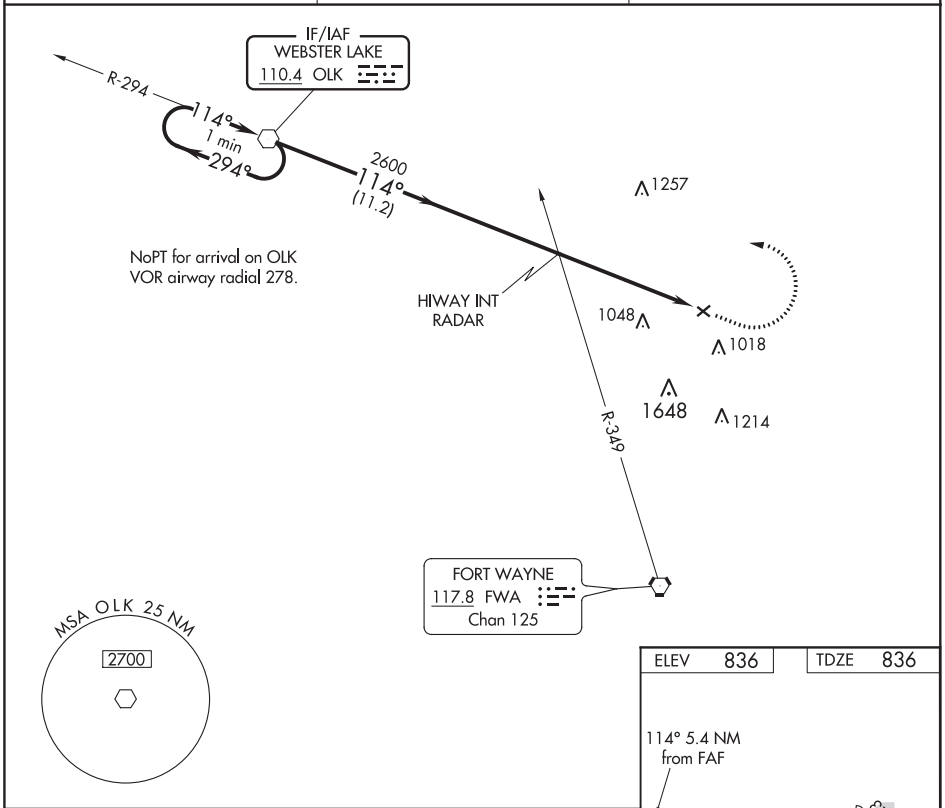
VOR OLK	APP CRS	Rwy ldg	2623
110.4	114°	TDZE	836
		Apt Elev	836

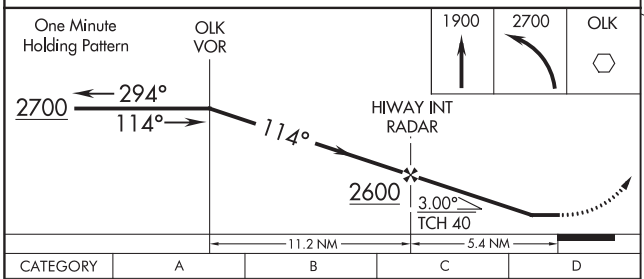
T
NA
-22°C

Rwy 13 helicopter visibility reduction below 1 SM NA. Procedure NA at night. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 40 feet and S-13 Cat C visibility ⅛ SM.

MISSED APPROACH: Climb to 1900 then climbing left turn to 2700 direct OLK VOR and hold.

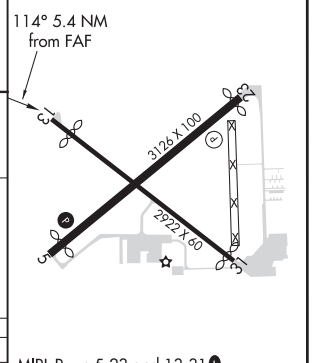
AWOS-3	FORT WAYNE APP CON	UNICOM
124.55	127.2 284.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-13	1360-1	524 (600-1)	1360-1½ 524 (600-1½)	NA
C CIRCLING	1400-1	564 (600-1)	1940-3 1104 (1200-3)	NA

ELEV	836	TDZE	836



MIRL Rwys 5-23 and 13-31 L

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

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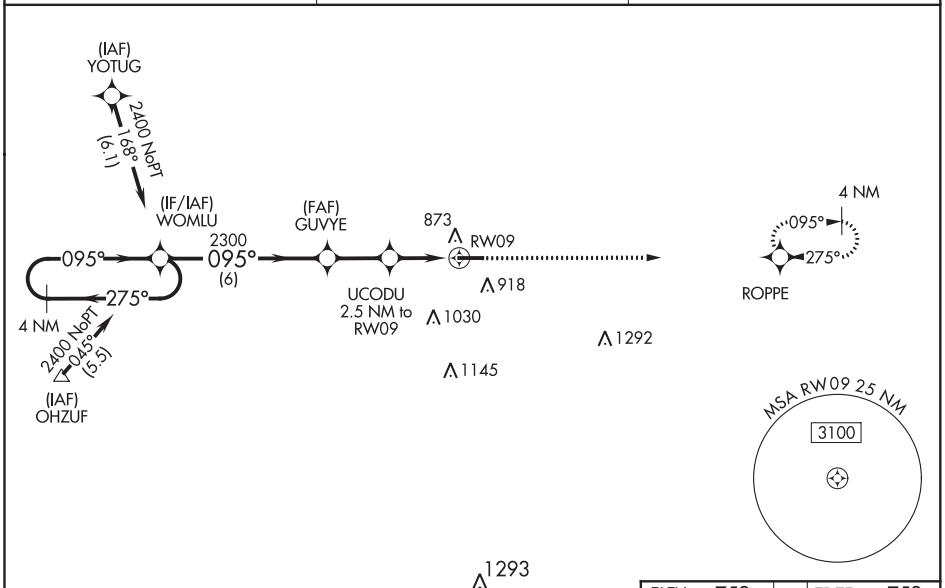
WAAS CH 53529 W09A	APP CRS 095°	Rwy ldg 5005 TDZE 752 Apt Elev 752

RNAV (GPS) RWY 9
FOSTORIA METROPOLITAN (FZI)

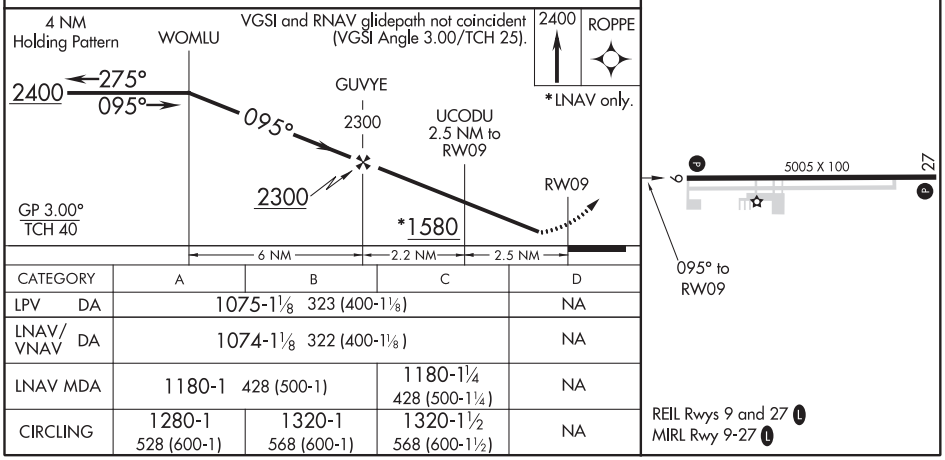
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Findlay altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). When local altimeter setting not received, use Findlay altimeter setting and increase all DA 47 feet and all MDA 60 feet, increase LPV and LNAV/VNAV all Cats visibility to 1¼ mile, increase LNAV Cat C visibility to 1⅜, increase Circling Cat C visibility to 1¾. When VGSI inop, Straight-in/Circling Rwy 9 procedure NA at night.

MISSED APPROACH: Climb to 2400 direct ROPPE and hold.

AWOS-3	TOLEDO APP CON	UNICOM
124.625	126.1 307.0	122.7 (CTAF) L



ELEV 752	TDZE 752



CATEGORY	A	B	C	D
LPV DA	1075-1⅛ 323 (400-1⅛)			NA
LNAV/VNAV DA	1074-1⅛ 322 (400-1⅛)			NA
LNAV MDA	1180-1 428 (500-1)		1180-1¼ 428 (500-1¼)	NA
CIRCLING	1280-1 528 (600-1)	1320-1 568 (600-1)	1320-1½ 568 (600-1½)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

FOSTORIA, OHIO AL-6133 (FAA) 20310

RNAV (GPS) RWY 27
FOSTORIA METROPOLITAN (FZI)

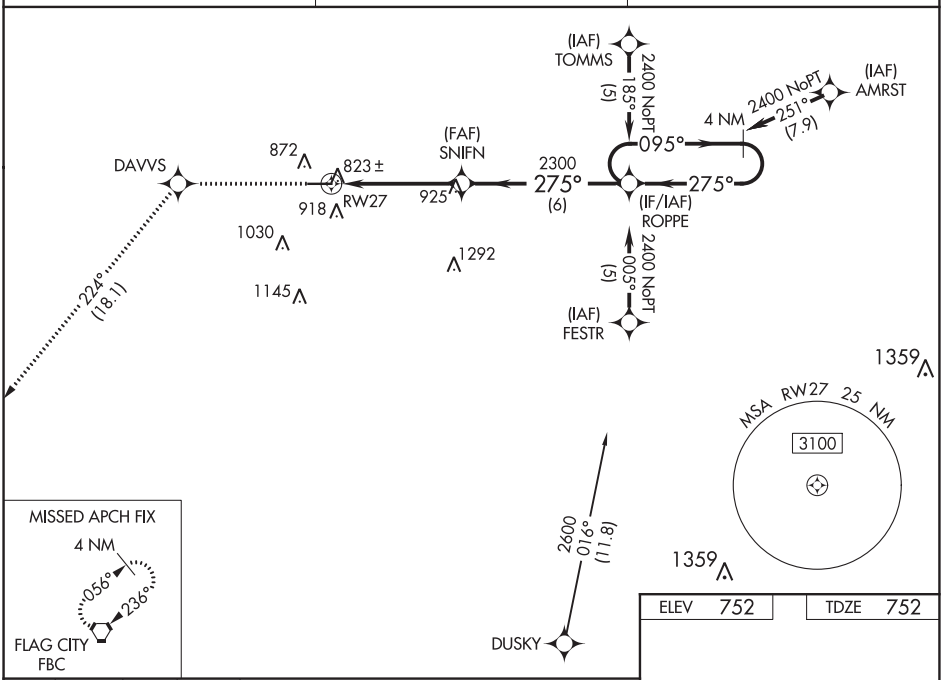
WAAS	APP CRS	Rwy ldg	5005
CH 45819	275°	TDZE	752
W27A		Apt Elev	752

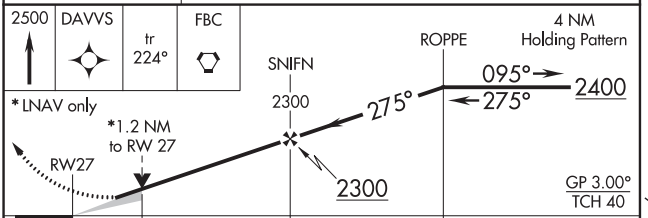
RNP APCH.

NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Findlay altimeter setting. When local altimeter setting not received, use Findlay altimeter setting and increase all DA 47 feet and all MDA 60 feet, increase LNAV/VNAV all Cats and Circling Cat C visibility ¼ mile.

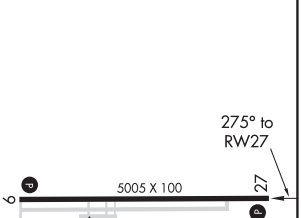
MISSED APPROACH: Climb to 2500 direct DAVVS and on track 224° to FBC VORTAC and hold.

AWOS-3	TOLEDO APP CON	UNICOM
124.625	126.1 307.0	122.7 (CTAF) L





ELEV 752	TDZE 752



CATEGORY		A	B	C	D
LPV	DA	1002-1 250 (300-1)			NA
LNAV/VNAV	DA	1131-1¼ 379 (400-1¼)			NA
LNAV	MDA	1160-1 408 (500-1)		1160-1¼ 408 (500-1¼)	NA
CIRCLING		1280-1 528 (600-1)	1320-1 568 (600-1)	1320-1½ 568 (600-1½)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

FOSTORIA, OHIO
Amdt 1B 24MAY18 41°11′N-83°24′W

FOSTORIA METROPOLITAN (FZI)
RNAV (GPS) RWY 27

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR-A
FOSTORIA METROPOLITAN (FZI)

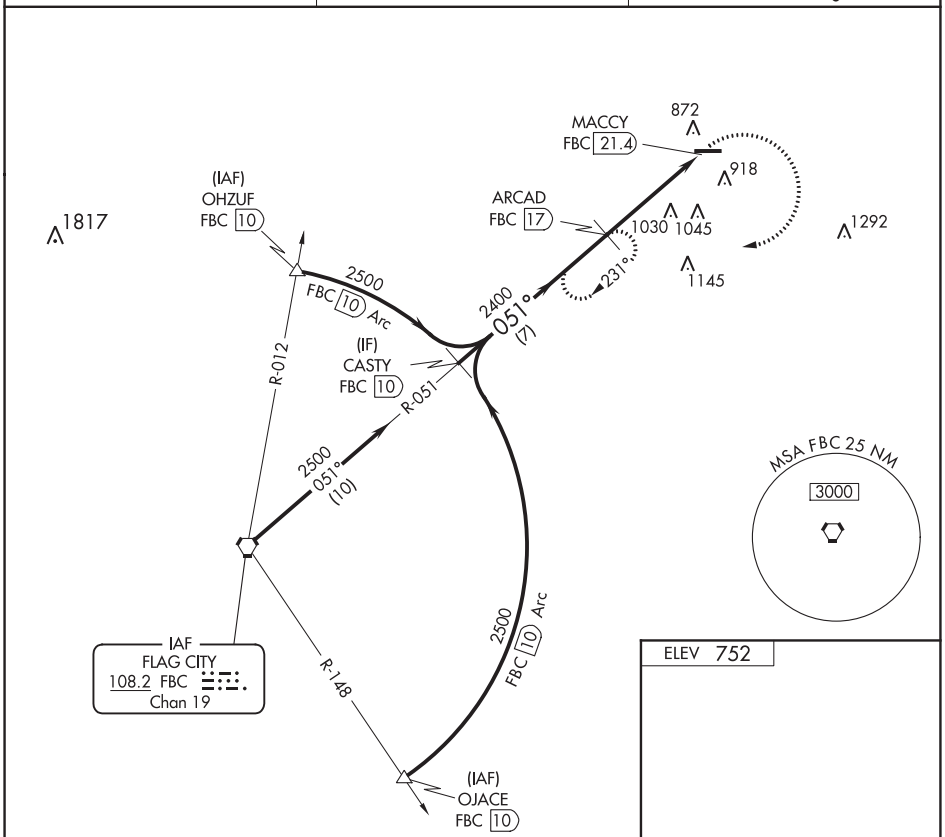
VORTAC FBC 108.2 Chan 19	APP CRS 051°	Rwy ldg N/A TDZE N/A Apt Elev 752

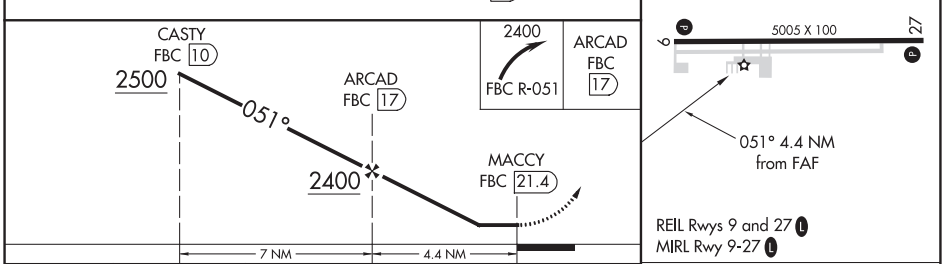
DME required.

When local altimeter setting not received, use Findlay altimeter setting and increase all MDA 60 feet, and increase Cat C visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2400 on FBC VORTAC R-051 to ARCAD/FBC 17 DME and hold.

AWOS-3	TOLEDO APP CON	UNICOM
124.625	126.1 307.0	122.7 (CTAF) L





REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

CATEGORY	A	B	C	D
C CIRCLING	1400-1 648 (700-1)	1400-1¼ 648 (700-1¼)	1400-1¾ 648 (700-1¾)	NA

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

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

FRANKFORT, INDIANA AL-6194 (FAA) 20142

WAAS CH 62834 W09A	APP CRS 092°	Rwy ldg 5000 TDZE 856 Apt Elev 861

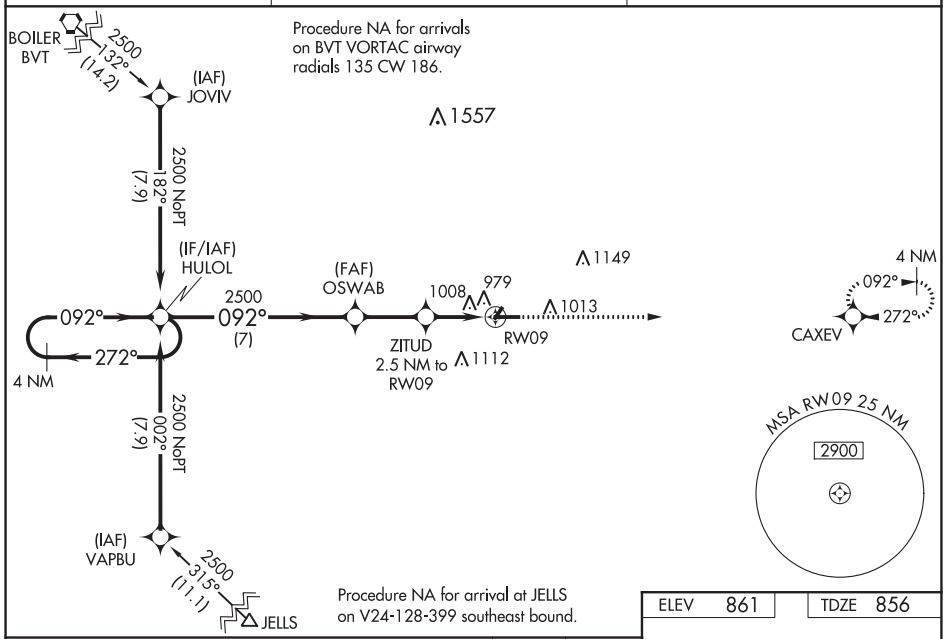
RNAV (GPS) RWY 9
FRANKFORT MUNI (FKR)

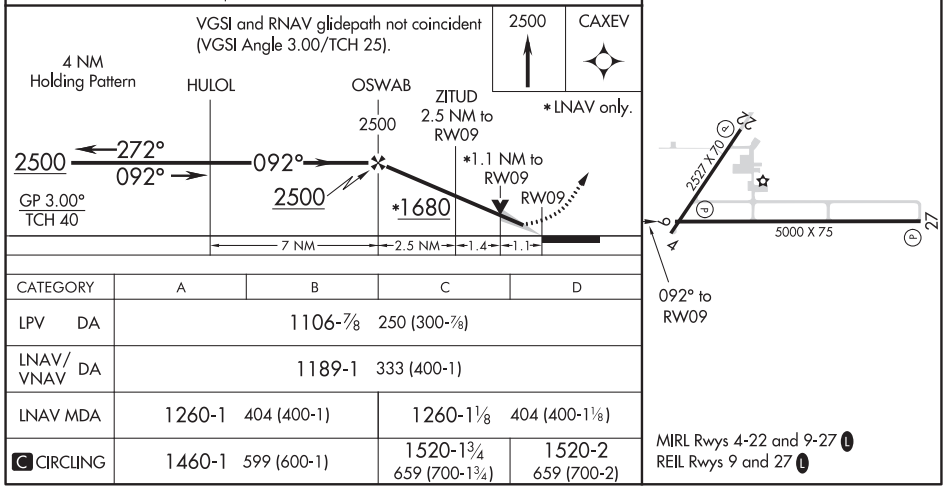
Baro-VNAV NA when using Indianapolis Executive altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. VDP NA with Indianapolis Executive altimeter setting. When local altimeter setting not received, use Indianapolis Executive altimeter setting: increase LPV DA to 1162 feet and visibility ⅛ SM all Cats; increase LNAV/VNAV DA to 1245 feet and visibility ⅛ SM all Cats; increase all MDAs 60 feet and LNAV and Circling Cats C/D visibilities ¼ SM.

NA

MISSED APPROACH: Climb to 2500 direct CAXEV and hold.

AWOS-3	GRISSOM APP CON ★	UNICOM
124.325	123.85 291.675	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1106-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1189-1 333 (400-1)			
LNAV MDA	1260-1 404 (400-1)		1260-1⅛ 404 (400-1⅛)	
C CIRCLING	1460-1 599 (600-1)		1520-1¾ 659 (700-1¾)	1520-2 659 (700-2)

MIRL Rwys 4-22 and 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 65734 W27A	APP CRS 272°	Rwy ldg 5000 TDZE 861 Apt Elev 861

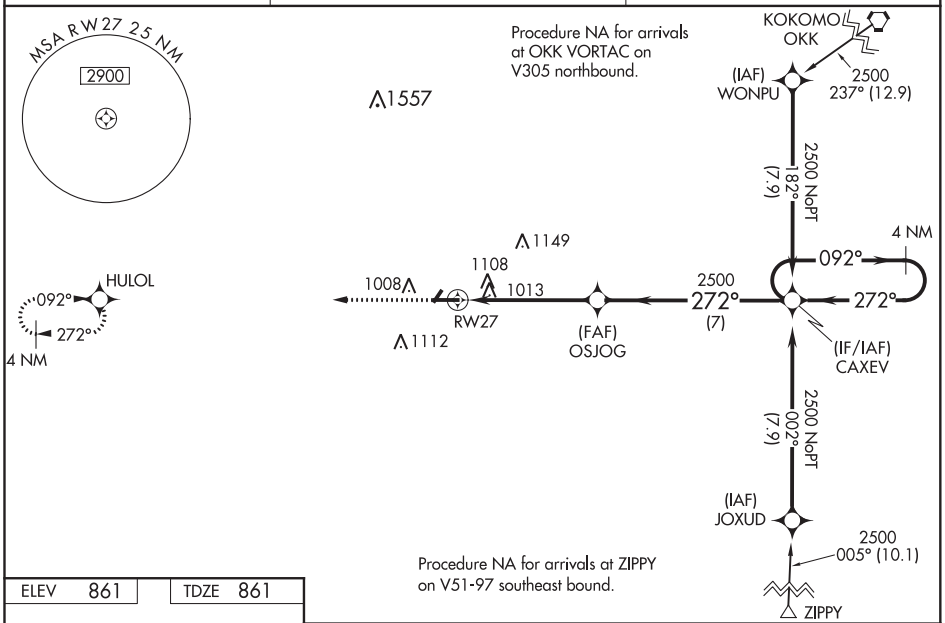
RNAV (GPS) RWY 27
FRANKFORT MUNI (FKR)

T A NA

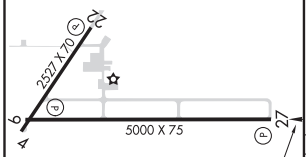
Baro-VNAV NA when using Indianapolis Executive altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. VDP NA with Indianapolis Executive altimeter setting. When local altimeter setting not received, use Indianapolis Executive altimeter setting and increase all DA 56 feet and all MDA 60 feet; increase LPV all Cats visibility ⅛ mile, LNAV Cats C/D visibility ⅛ mile, and Circling Cats C/D visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct HULOL and hold.

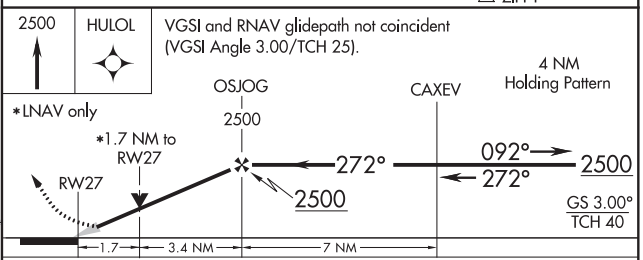
AWOS-3	GRISSOM APP CON ★	UNICOM
124.325	123.85 291.675	123.0 (CTAF) L



ELEV 861	TDZE 861



MIRL Rwys 9-27 and 4-22 L
REIL Rwys 9 and 27 L



CATEGORY	A	B	C	D
LPV DA	1111-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1476-2½ 615 (700-2½)			
LNAV MDA	1420-1 559 (600-1)		1420-1⅝ 559 (600-1⅝)	
C CIRCLING	1460-1 599 (600-1)		1520-1¾ 659 (700-1¾)	1520-2 659 (700-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FREMONT, OHIO AL-5181 (FAA) 19339

RNAV (GPS) RWY 9
FREMONT (14G)

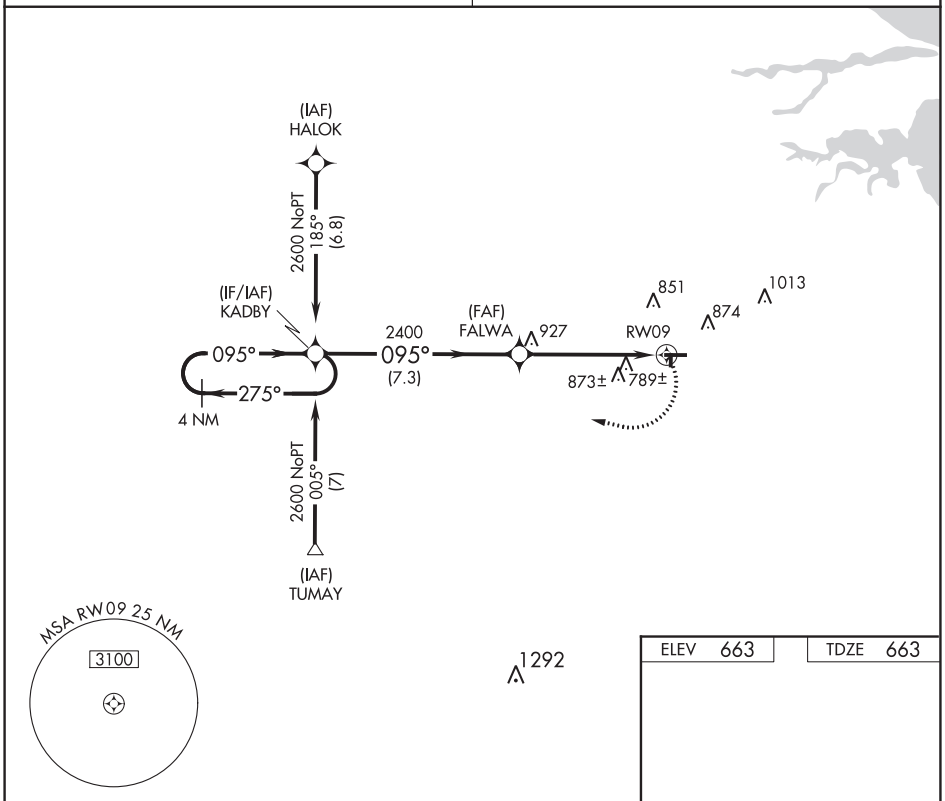
APP CRS	Rwy ldg	4011
095°	TDZE	663
	Apt Elev	663

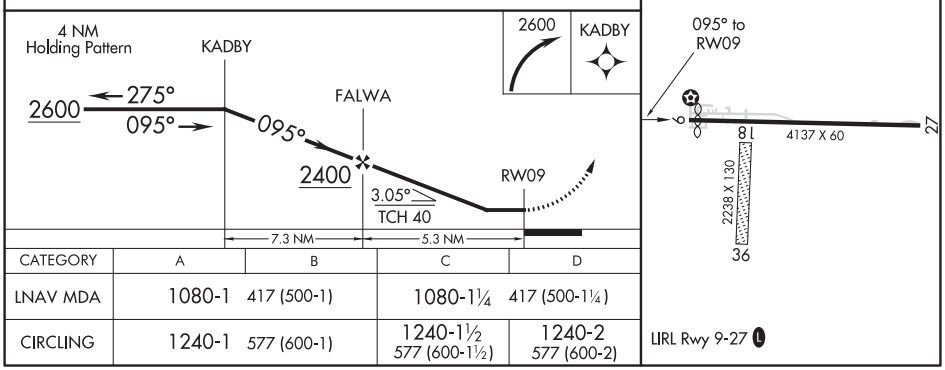
RNP APCH.

Procedure NA at night. Use Sandusky County Rgnl altimeter setting; when not received use Toledo Executive altimeter setting and increase all MDA 40 feet and LNAV Cat D and Circling Cat C visibility ¼ mile. Rwy 9 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 2600 direct KADBY and hold.

TOLEDO APP CON	UNICOM
126.1 307.0	122.8 (CTAF) L





ELEV 663 TDZE 663

CATEGORY	A	B	C	D
LNAV MDA	1080-1 417 (500-1)		1080-1¼ 417 (500-1¼)	
CIRCLING	1240-1 577 (600-1)		1240-1½ 577 (600-1½)	1240-2 577 (600-2)

LIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

FREMONT, OHIO
Orig-B 24MAY18

41°20'N - 83°10'W

FREMONT (14G)
RNAV (GPS) RWY 9

WAAS CH 63022 W06A	APP CRS 067°	Rwy ldg 5500 TDZE 665 Apt Elev 665

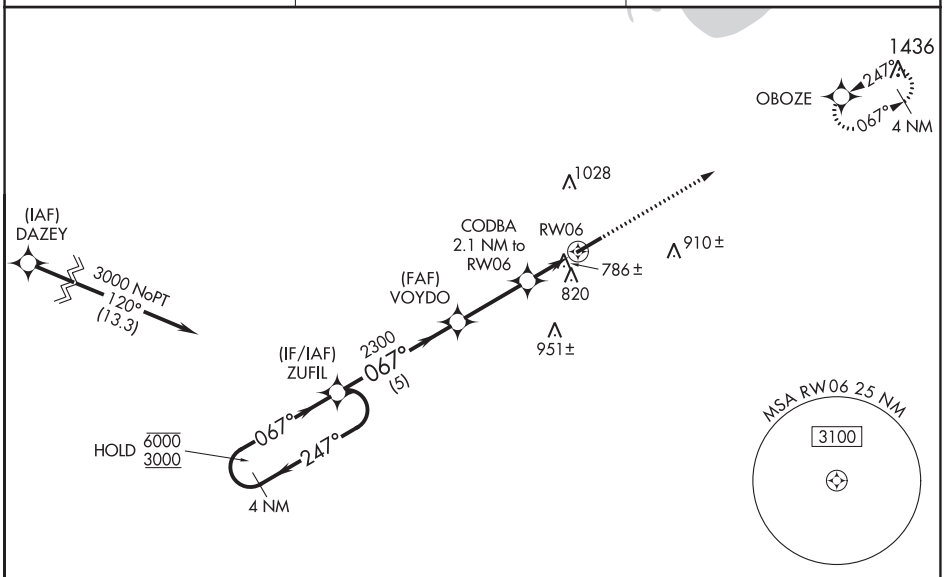
RNAV (GPS) RWY 6
SANDUSKY COUNTY RGNL (S24)

RNP APCH.

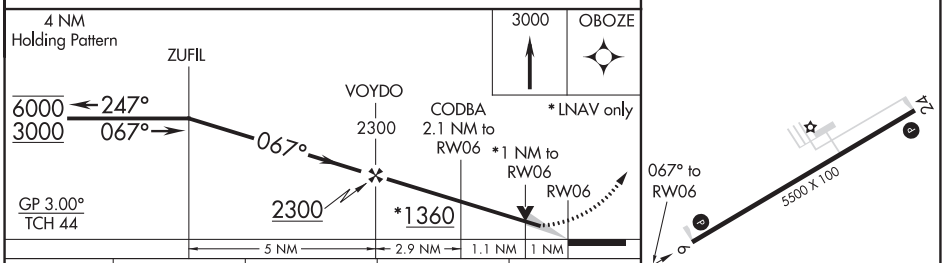
T A NA Baro-VNAV and VDP NA when using Toledo Express altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Toledo Express altimeter setting: increase LPV DA to 1008 feet and all visibilites ⅜ SM; increase LNAV/VNAV DA to 1041 feet and all visibilities ⅜ SM; increase all MDA 100 feet and LNAV visibility Cat C and D ⅜ SM and Circling visibility Cat C and D ½ SM.

MISSED APPROACH: Climb to 3000 direct OBOZE and hold.

AWOS-3	TOLEDO APP CON	UNICOM
119.575	126.1 307.0	123.05 (CTAF) L



ELEV 665	TDZE 665



CATEGORY	A	B	C	D
LPV DA	915-¾ 250 (300-¾)			
LNAV/VNAV DA	948-⅞ 283 (300-⅞)			
LNAV MDA	1040-1 375 (400-1)			
C CIRCLING	1120-1 455 (500-1)	1160-1 495 (500-1)	1380-2 715 (800-2)	1380-2¼ 715 (800-2¼)

REIL Rwys 6 and 24 L
MIRL Rwy 6-24 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FREMONT, OHIO | AL-9372 (FAA) | 20366

WAAS CH 42822 W24A	APP CRS 247°	Rwy ldg 5500 TDZE 665 Apt Elev 665

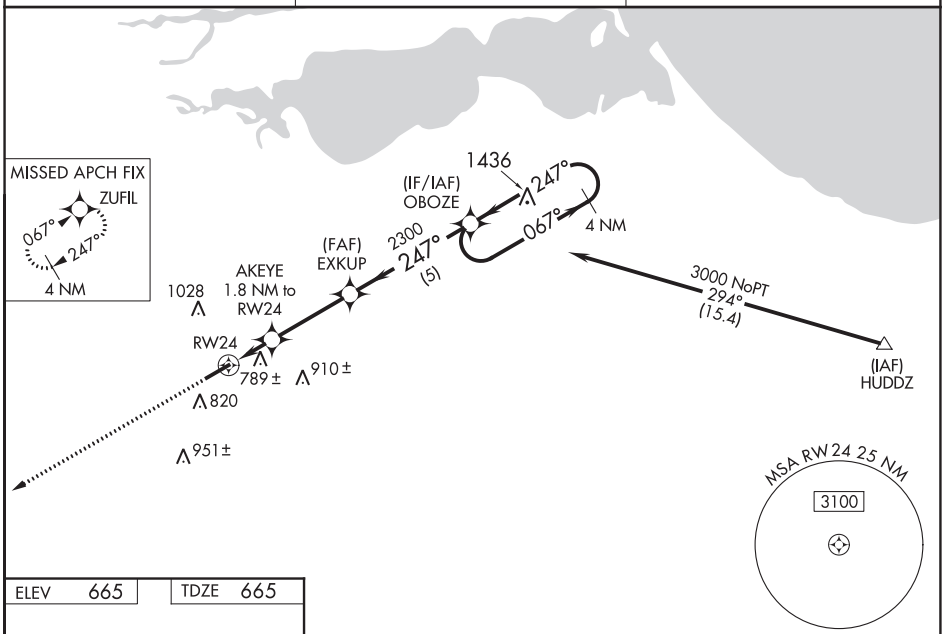
RNAV (GPS) RWY 24
SANDUSKY COUNTY RGNL (S24)

RNP APCH.

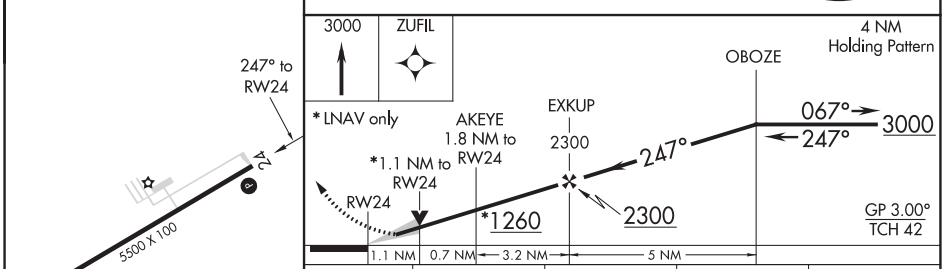
NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Toledo Express altimeter setting. When local altimeter setting not received, use Toledo Express altimeter setting: increase LPV DA to 978 feet and all visibilities ⅜ SM; increase LNAV/VNAV DA to 1196 feet and all visibilities ⅜ SM; increase all MDA 100 feet and LNAV visibility Cat C and D ¼ SM and Circling visibility Cat C and D ½ SM.

MISSED APPROACH: Climb to 3000 direct ZUFIL and hold.

AWOS-3	TOLEDO APP CON	UNICOM
119.575	126.1 307.0	123.05 (CTAF) L



ELEV 665 | TDZE 665



CATEGORY	A	B	C	D
LPV DA	885-¾ 220 (300-¾)			
LNAV/VNAV DA	1103-1½ 438 (500-1½)			
LNAV MDA	1040-1 375 (400-1)		1040-1⅛ 375 (400-1⅛)	
C CIRCLING	1120-1 455 (500-1)	1160-1 495 (500-1)	1380-2 715 (800-2)	1380-2¼ 715 (800-2¼)

REIL Rwys 6 and 24 L
MIRL Rwy 6-24 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 61320 W08A	APP CRS 080°	Rwy ldg 5309 TDZE 792 Apt Elev 792

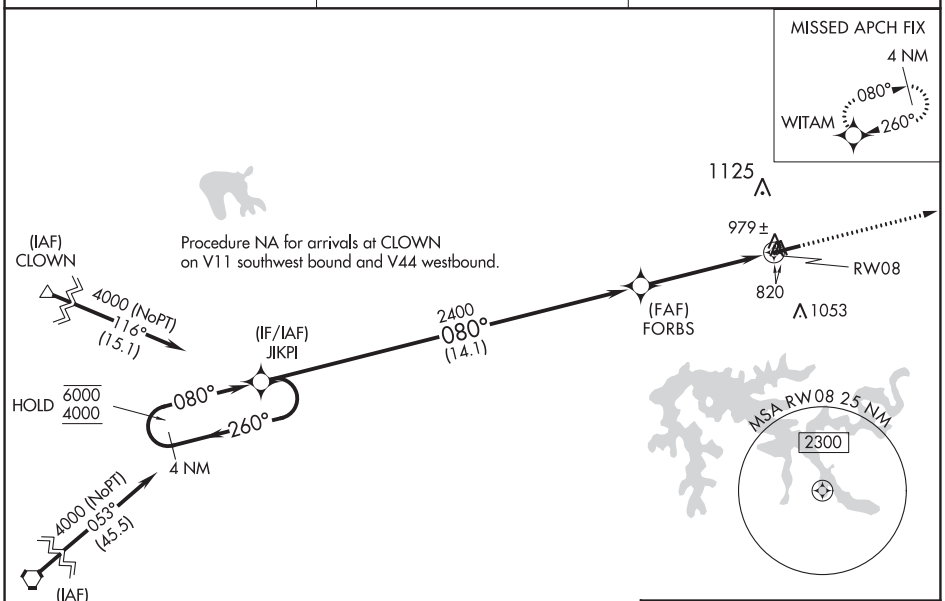
RNAV (GPS) RWY 8
FRENCH LICK MUNI (FRH)

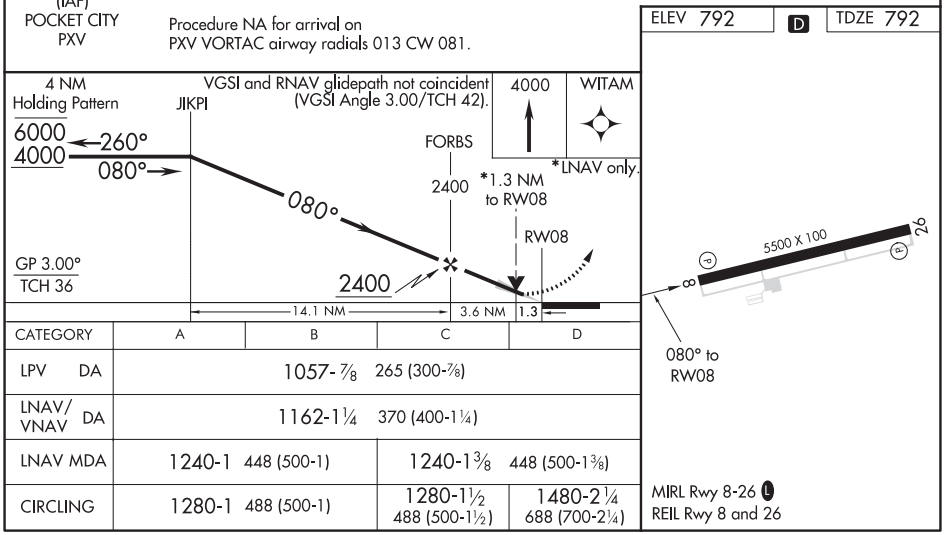
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 39°C .

MISSED APPROACH: Climb to 4000 direct WITAM and hold.

AWOS-3	LOUISVILLE APP CON	UNICOM
118.075	132.075 327.0	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1057-⅞ 265 (300-⅞)			
LNAV/VNAV DA	1162-1¼ 370 (400-1¼)			
LNAV MDA	1240-1 448 (500-1)		1240-1⅜ 448 (500-1⅜)	
CIRCLING	1280-1 488 (500-1)		1280-1½ 488 (500-1½)	1480-2¼ 688 (700-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

FRENCH LICK, INDIANA

AL-5962 (FAA)

20142

RNAV (GPS) RWY 26

FRENCH LICK MUNI (FRH)

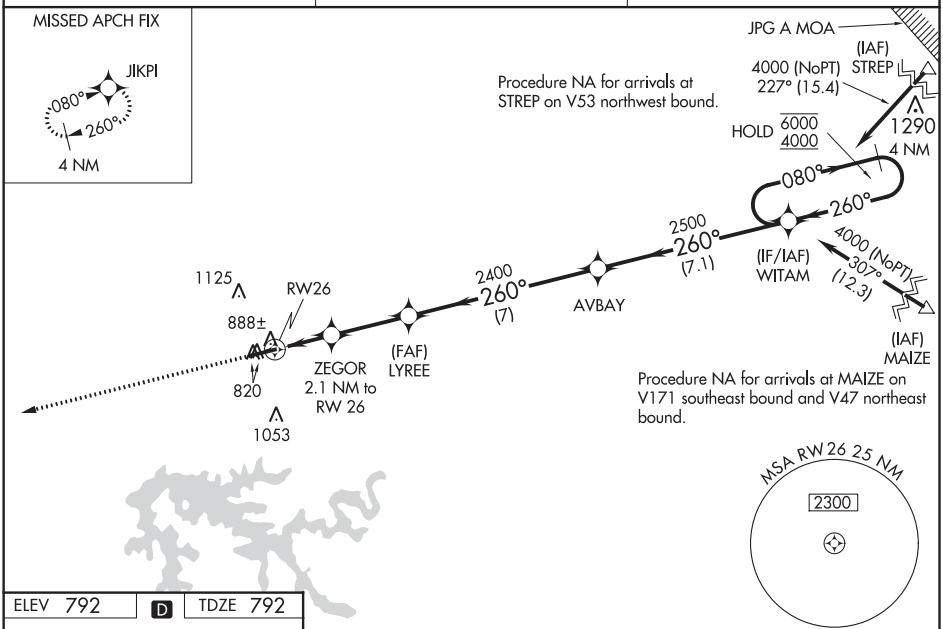
WAAS CH 78420 W26A	APP CRS 260°	Rwy ldg 5298 TDZE 792 Apt Elev 792

RNP APCH.

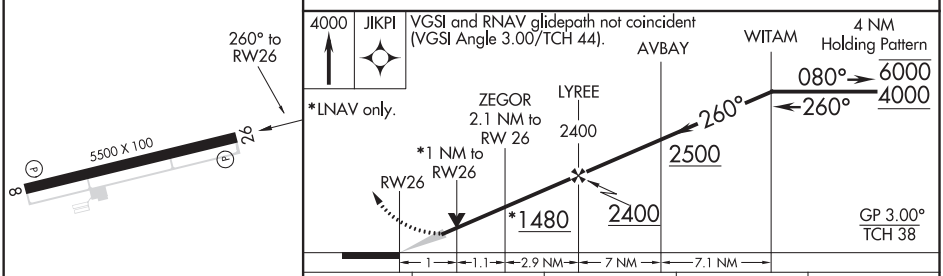
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 39°C.

MISSED APPROACH: Climb to 4000 direct JIKPI and hold.

AWOS-3	LOUISVILLE APP CON	UNICOM
118.075	132.075 327.0	122.8 (CTAF) L



ELEV 792	D	TDZE 792



CATEGORY	A	B	C	D
LPV DA	1042-1		250 (300-1)	
LNAV/VNAV DA	1077-1		285 (300-1)	
LNAV MDA	1140-1		348 (400-1)	
CIRCLING	1280-1 488 (500-1)		1280-1½ 488 (500-1½)	1480-2¼ 688 (700-2¼)

MIRL Rwy 8-26 L
REIL Rwy 8 and 26

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 69223 W05A	APP CRS 054°	Rwy ldg 3318 TDZE 1224 Apt Elev 1224

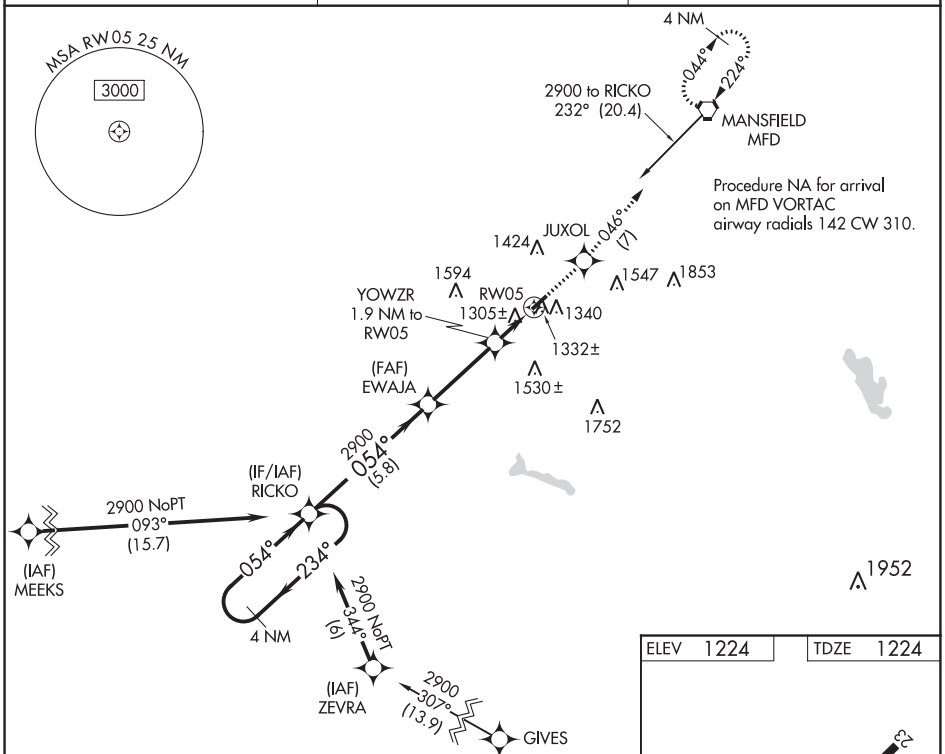
RNAV (GPS) RWY 5
GALION MUNI (GQQ)

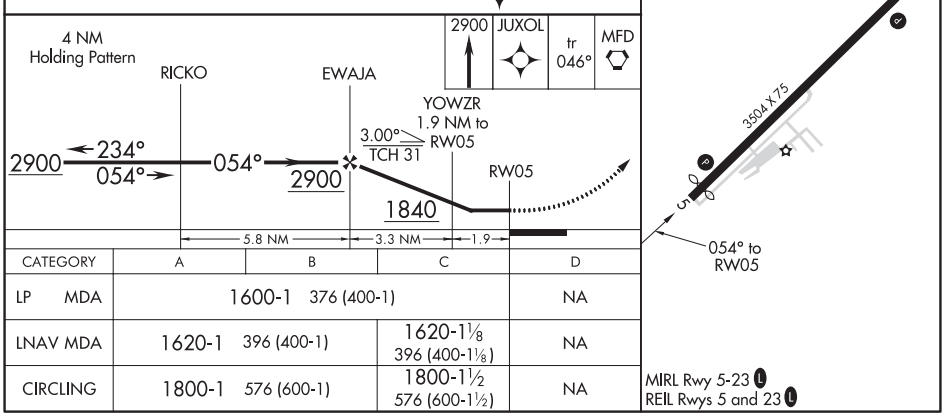
NA

Helicopter visibility reduction below 1 SM NA.
DME/DME RNP-0.3 NA. Use Mansfield altimeter setting.
Straight-in Rwy 5 NA at night, Circling Rwy 5 NA at night.

MISSED APPROACH: Climb to 2900 direct JUXOL and on track 046° to MFD VORTAC and hold.

CLEVELAND APP CON ★	CLNC DEL	UNICOM
124.2 360.65	126.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1600-1 376 (400-1)			NA
LNAV MDA	1620-1 396 (400-1)		1620-1⅛ 396 (400-1⅛)	NA
CIRCLING	1800-1 576 (600-1)		1800-1½ 576 (600-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GALION, OHIO | AL-5044 (FAA) | 19227

WAAS CH 57923 W23A	APP CRS 235°	Rwy ldg 3504 TDZE 1224 Apt Elev 1224

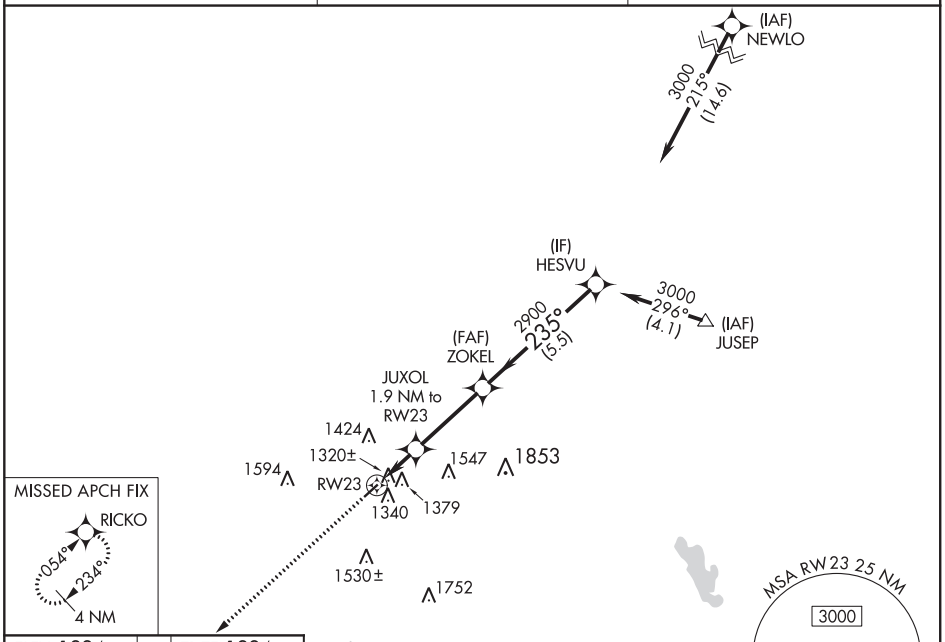
RNAV (GPS) RWY 23
GALION MUNI (GQQ)

T
A NA

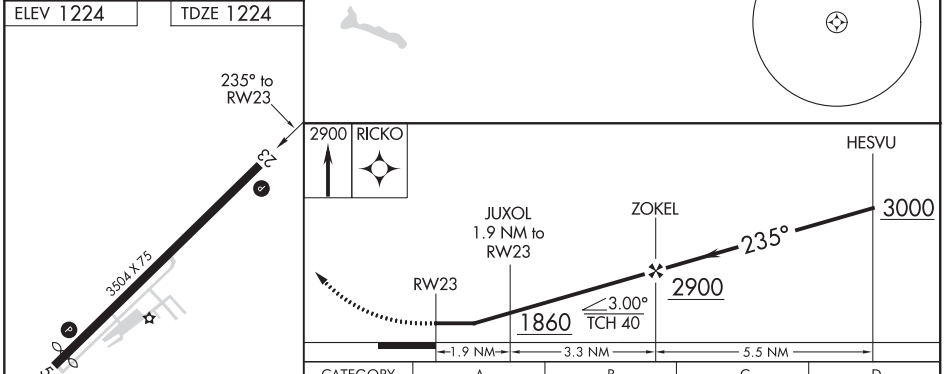
Helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. Use Mansfield altimeter setting. Circling Rwy 5 NA at night.

MISSED APPROACH: Climb to 2900 direct RICKO and hold.

CLEVELAND APP CON ★	CLNC DEL	UNICOM
124.2 360.65	126.8	122.8 (CTAF) L



ELEV 1224 | TDZE 1224



CATEGORY	A	B	C	D
LP MDA	1620-1 396 (400-1)		1620-1⅛ 396 (400-1⅛)	NA
LNAV MDA	1760-1 536 (600-1)		1760-1⅝ 536 (600-1⅝)	NA
CIRCLING	1800-1 576 (600-1)		1800-1⅝ 576 (600-1⅝)	NA

MIRL Rwy 5-23 L
REIL Rwys 5 and 23 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

VOR RWY 23
GALION MUNI (GQQ)

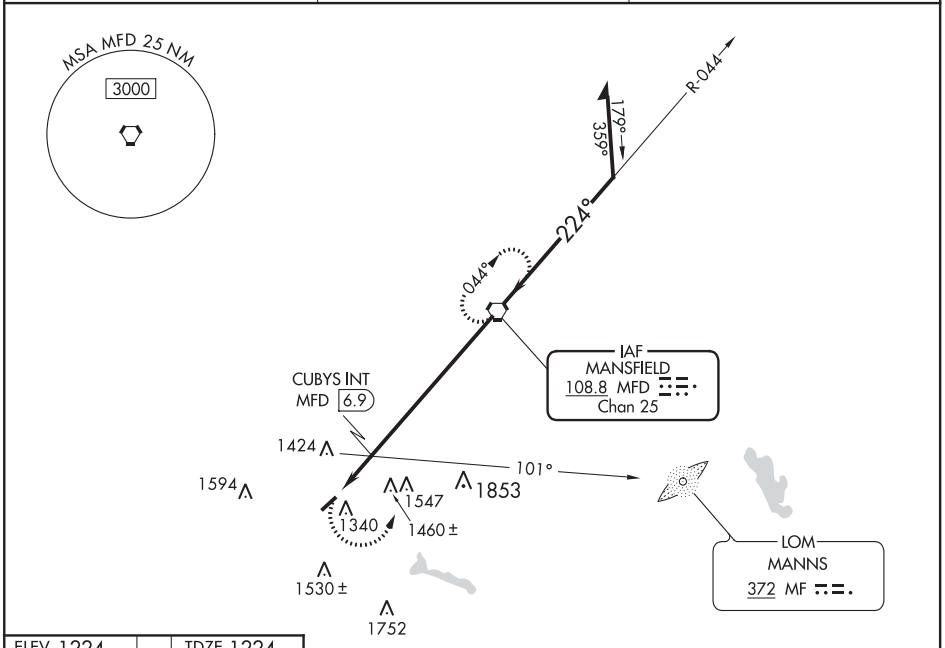
VORTAC MFD	APP CRS	Rwy ldg	3504
108.8	224°	TDZE	1224
Chan 25		Apt Elev	1224

RADAR required for procedure entry.

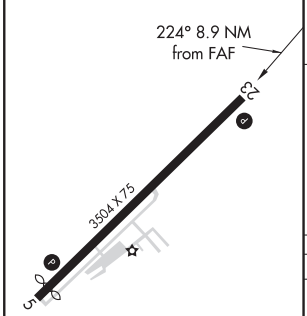
T A NA Procedure NA at night. Use Mansfield altimeter setting; when not received, use Marion altimeter setting and increase all MDA 40 feet and increase CUBYS fix minimums S-23 and Circling Cat C visibility ⅛ SM. Rwy 23 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 2900 direct MFD VORTAC and hold.

CLEVELAND APP CON ★	CLNC DEL	UNICOM
124.2 360.65	126.8	122.8 (CTAF) L



ELEV 1224 TDZE 1224

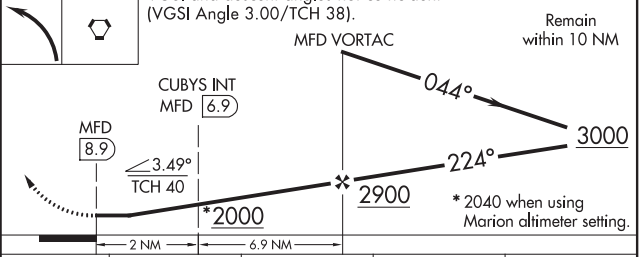


REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

FAF to MAP 8.9 NM					
Knots	60	90	120	150	180
Min:Sec	8:54	5:56	4:27	3:34	2:58

2900 MFD

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 38).



CATEGORY	A	B	C	D
S-23	2000-1 776 (800-1)	2000-1¼ 776 (800-1¼)	2000-2½ 776 (800-2½)	NA
CIRCLING	2000-1 776 (800-1)	2000-1¼ 776 (800-1¼)	2000-2½ 776 (800-2½)	NA
CUBYS FIX MINIMUMS				
S-23	1760-1 536 (600-1)		1760-1⅝ 536 (600-1⅝)	NA
CIRCLING	1800-1 576 (600-1)		1800-1⅝ 576 (600-1⅝)	NA

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

GALLIPOLIS, OHIO | AL-5981 (FAA) | 20142

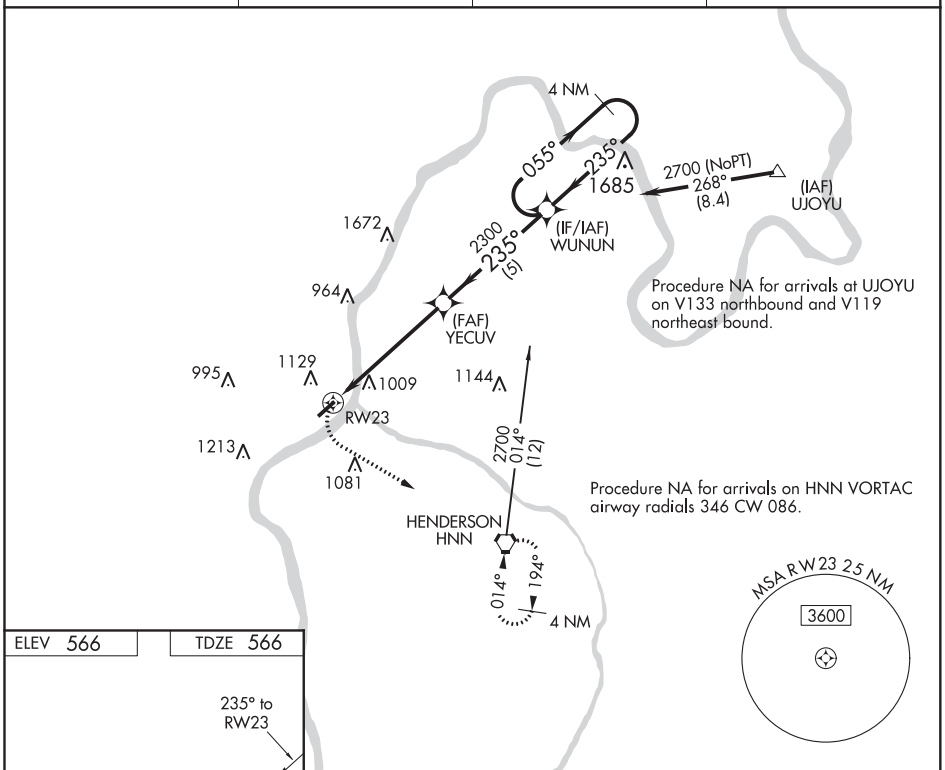
RNAV (GPS) RWY 23
GALLIA-MEIGS RGNL (GAS)

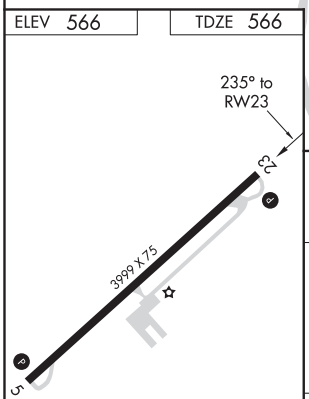
APP CRS	Rwy ldg	3999
235°	TDZE	566
	Apt Elev	566

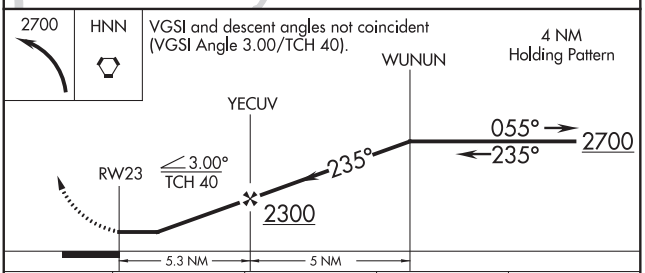
DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Point Pleasant altimeter setting and increase all MDA 40 feet, and increase Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 2700 direct HNN VORTAC and hold.

AWOS-3	HUNTINGTON APP CON	CLNC DEL	UNICOM
119.925	128.4 270.1	124.55	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1360-1 794 (800-1)	1360-1¼ 794 (800-1¼)	1360-2½ 794 (800-2½)	NA
CIRCLING	1440-1¼ 874 (900-1¼)		1440-2½ 874 (900-2½)	NA

MIRL Rwy 5-23 L
REIL Rwy 23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-GYY	APP CRS	Rwy ldg	7959
108.75	306°	TDZE	591
Chan 24 (Y)		Apt Elev	597

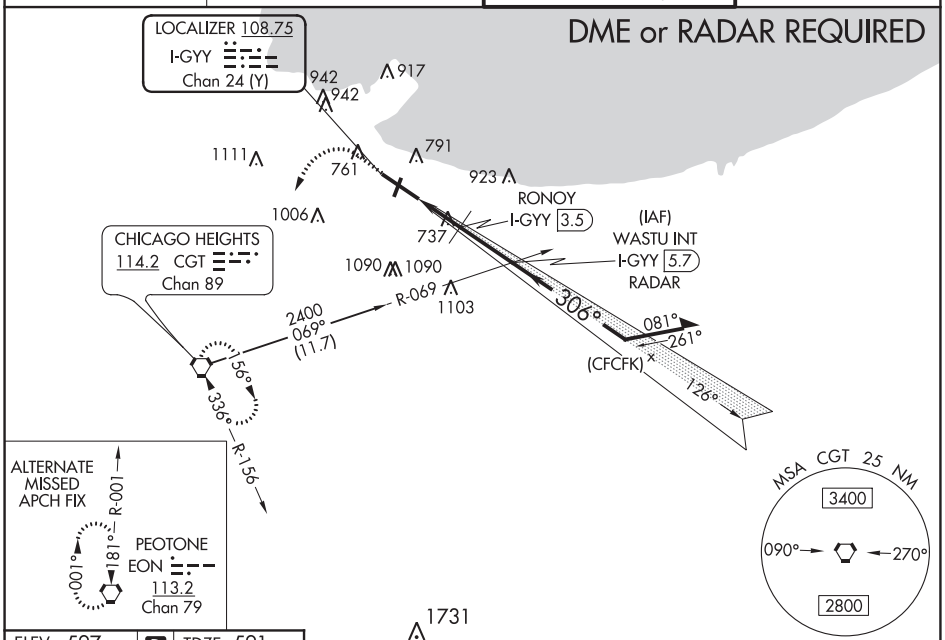
ILS or LOC RWY 30
GARY/CHICAGO INTL (GYY)

When local altimeter setting not received, use Chicago Midway Intl altimeter setting and increase all DA 46 feet and all MDA 60 feet, increase S-LOC 30 Cat C/D visibility to 1⅝ miles, increase Circling Cat C/D and RONOY fix minimums Circling Cat C/D visibility ¼ mile. VDP NA with Chicago Midway Intl altimeter setting. **RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Chicago Midway Intl.

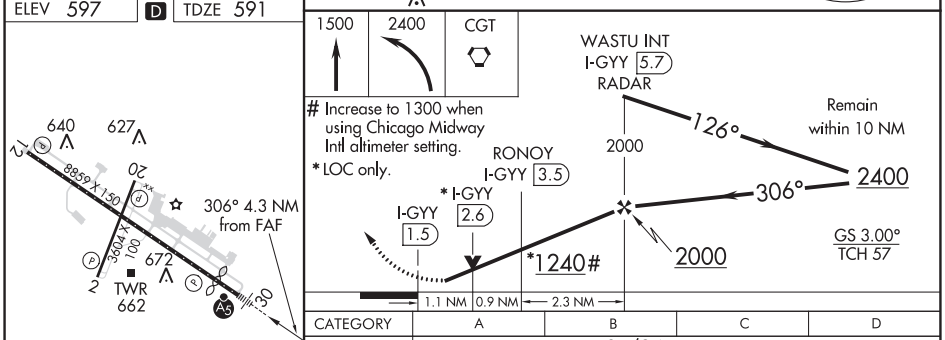
MALSR A5

MISSED APPROACH: Climb to 1500 then climbing left turn to 2400 direct CGT VORTAC and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9



ELEV 597	D	TDZE 591



REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

CATEGORY	A	B	C	D
S-ILS 30**	791/24 200 (200-½)			
S-LOC 30	1240/24 649 (700-½)		1240-1⅜ 649 (700-1⅜)	
C CIRCLING	1240-1 643 (700-1)		1400-2¼ 803 (900-2¼)	1420-2¾ 823 (900-2¾)
RONOY FIX MINIMUMS				
S-LOC 30	1000/24 409 (500-½)		1000/40 409 (500-¾)	
C CIRCLING	1140-1 543 (600-1)	1180-1 583 (600-1)	1400-2¼ 803 (900-2¼)	1420-2¾ 823 (900-2¾)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GARY, INDIANA | AL-748 (FAA) | 19115

RNAV (RNP) Z RWY 12

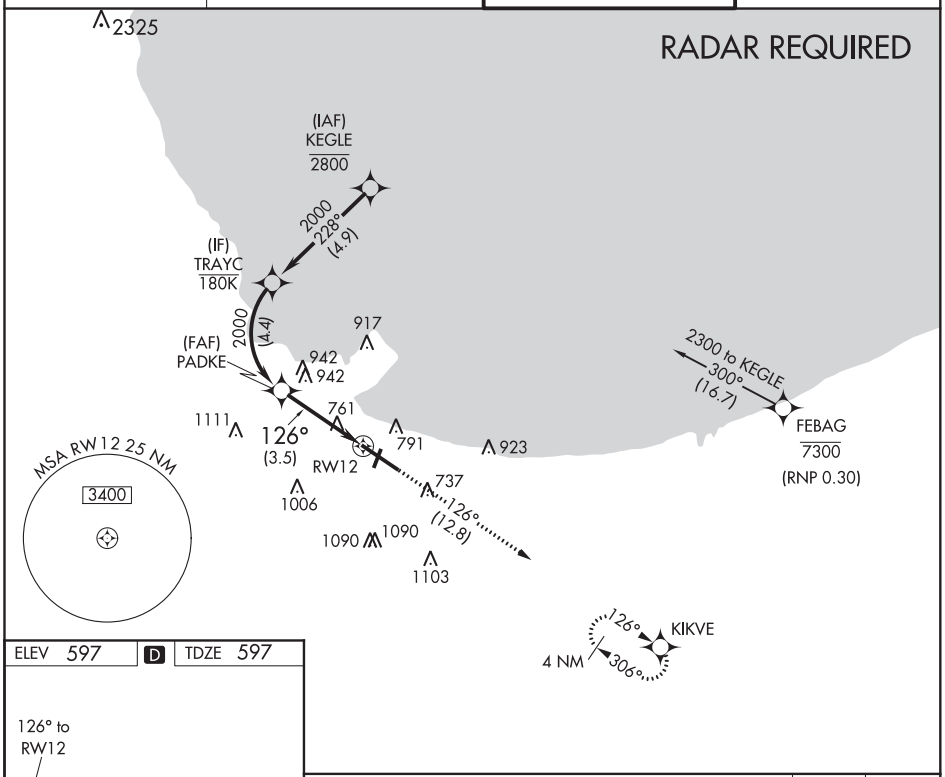
GARY/CHICAGO INTL (GYY)

APP CRS	Rwy ldg	7959
126°	TDZE	597
	Apt Elev	597

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 45°C (113°F). RF and GPS required. Procedure NA for wingspans greater than 136 feet.

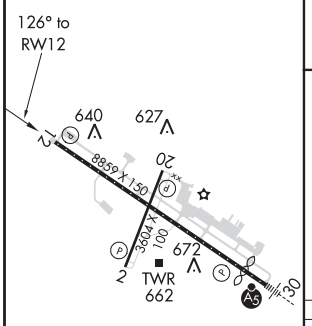
MISSED APPROACH: Climb to 2400 on track 126° to KIKVE and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9

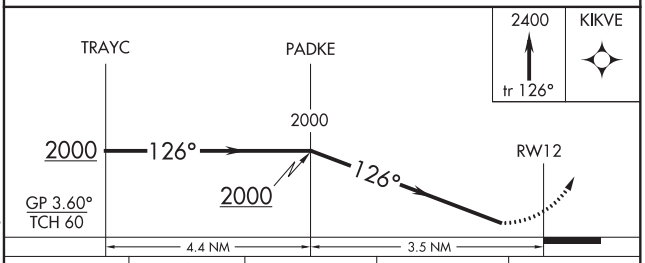


EC-2, 25 FEB 2021 to 22 APR 2021

ELEV 597 | D | TDZE 597



REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L



CATEGORY	A	B	C	D
RNP 0.13 DA	978-1⅛ 381 (400-1⅛)			NA
RNP 0.30 DA	1056-1⅜ 459 (500-1⅜)			NA

AUTHORIZATION REQUIRED

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	7959
306°	TDZE	591
	Apt Elev	597

RNAV (RNP) Z RWY 30

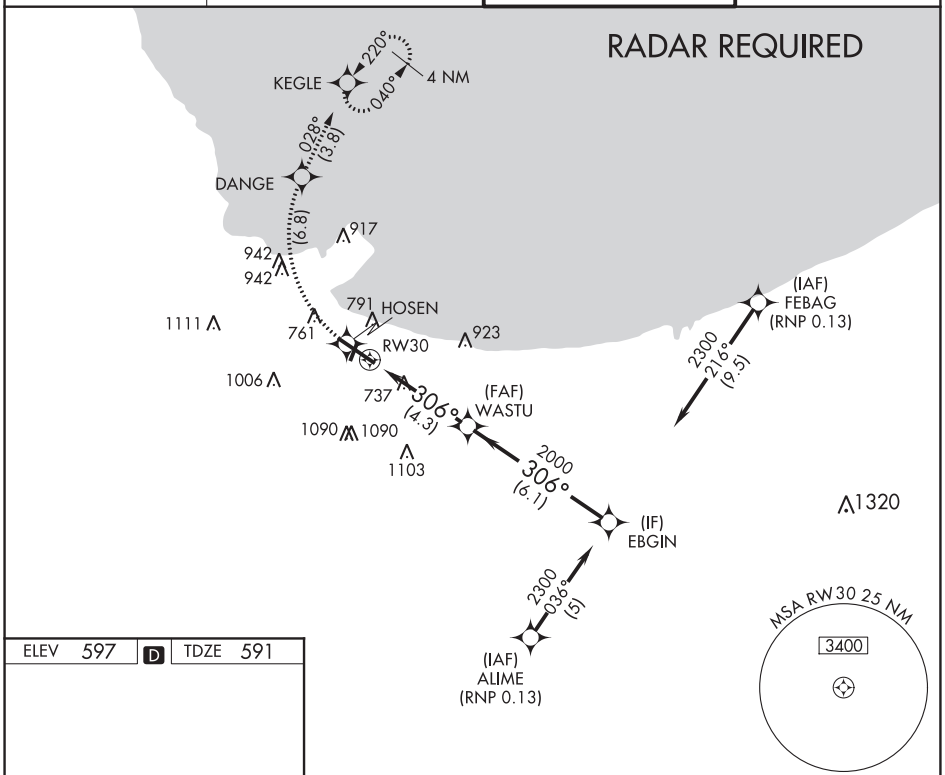
GARY/CHICAGO INTL (GYY)

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). Missed approach requires RNP less than 1.0. RF and GPS required.

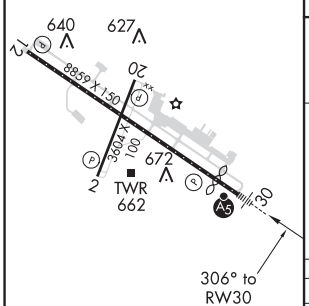
MALSR

MISSED APPROACH: Climb to 2100 on track 306° to HOSEN, right turn to DANGE, then track 028° to KEGLE and hold.

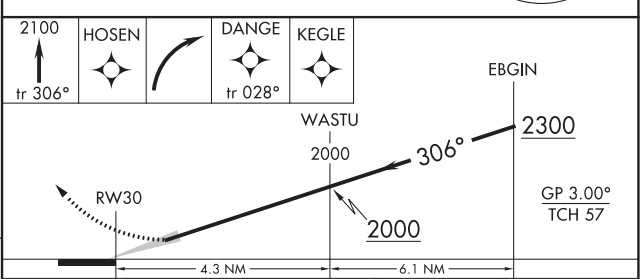
ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9



ELEV 597 D TDZE 591



REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L



CATEGORY	A	B	C	D
RNP 0.13 DA	942-5/8 351 (400-5/8)			

AUTHORIZATION REQUIRED

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GARY, INDIANA — AL-748 (FAA) — 19115

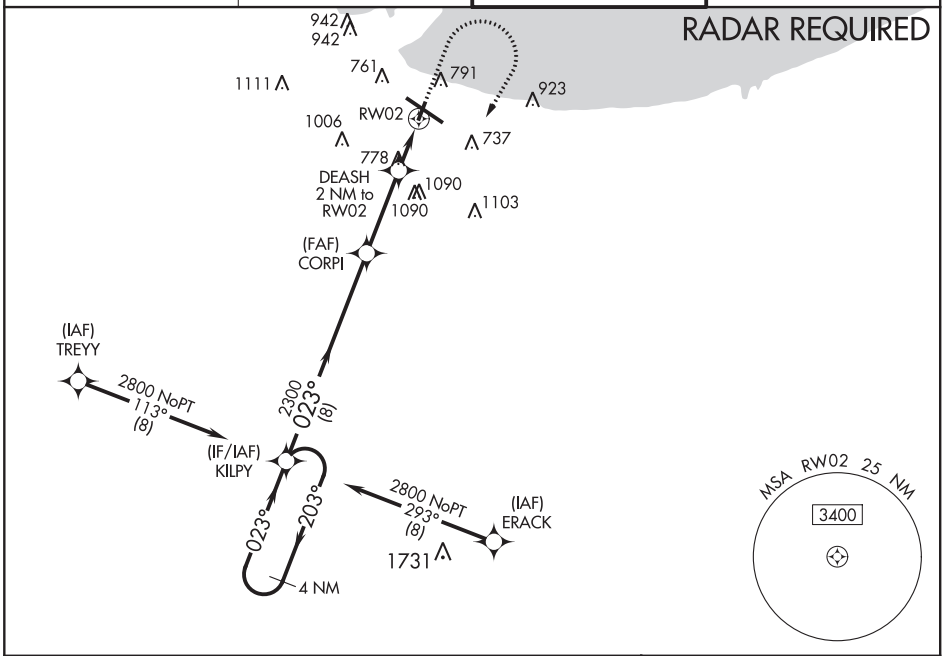
WAAS CH 69338 W02A	APP CRS 023°	Rwy ldg 3604 TDZE 591 Apt Elev 597

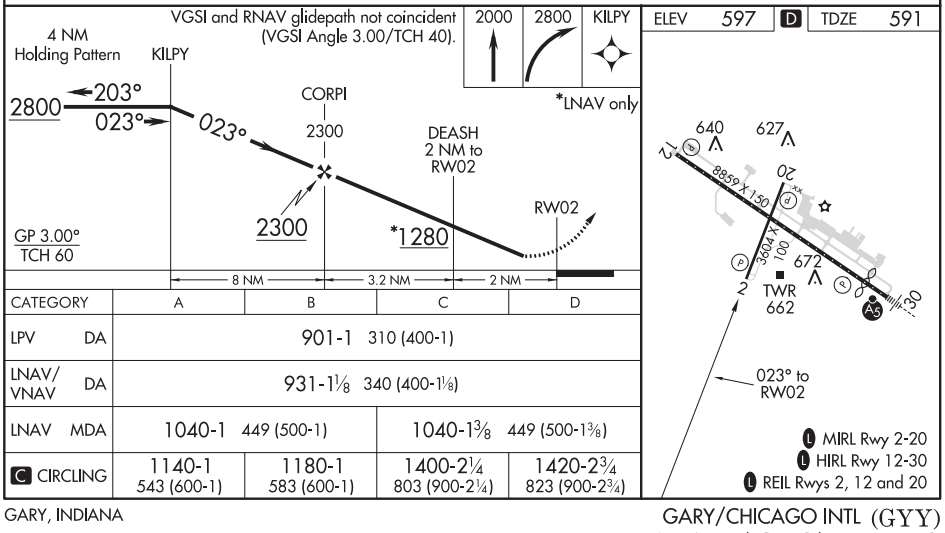
RNAV (GPS) RWY 2
GARY/CHICAGO INTL (GYY)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Chicago Midway Intl altimeter setting and increase LPV DA to 947 feet, LNAV/VNAV DA to 977 feet, all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility ⅛ mile, and Circling Cat C and D visibility ¼ mile. Baro-VNAV NA when using Chicago Midway Intl altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing right turn to 2800 direct KILPY and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9





CATEGORY	A	B	C	D
LPV DA	901-1 310 (400-1)			
LNAV/VNAV DA	931-1⅛ 340 (400-1⅛)			
LNAV MDA	1040-1 449 (500-1)		1040-1⅜ 449 (500-1⅜)	
C CIRCLING	1140-1 543 (600-1)	1180-1 583 (600-1)	1400-2¼ 803 (900-2¼)	1420-2¾ 823 (900-2¾)

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EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3604
203°	TDZE	591
	Apt Elev	592

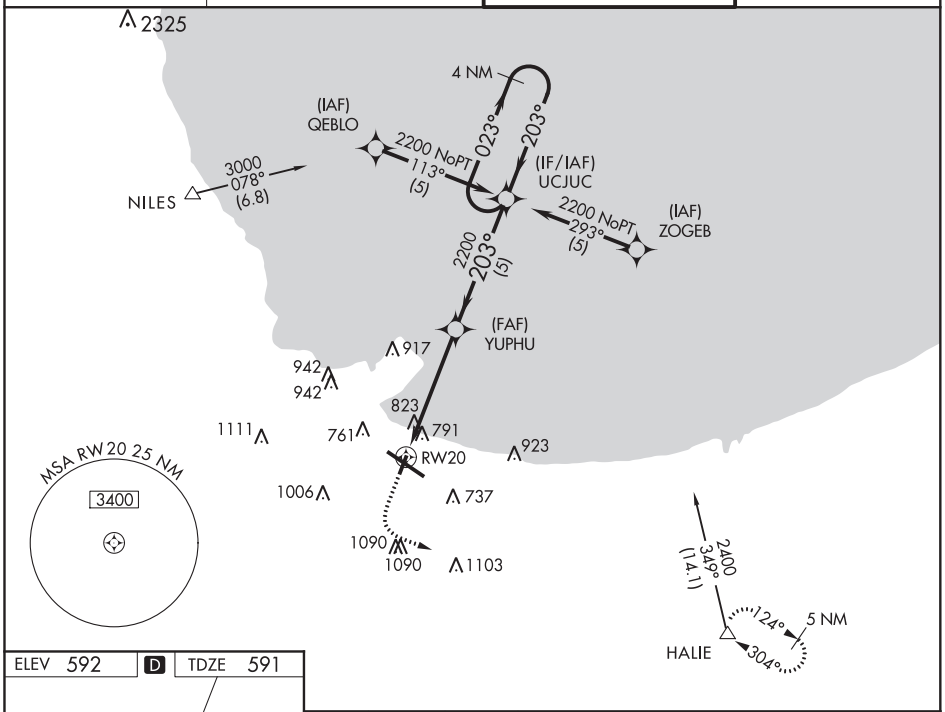
RNAV (GPS) RWY 20
GARY/CHICAGO INTL (GYY)

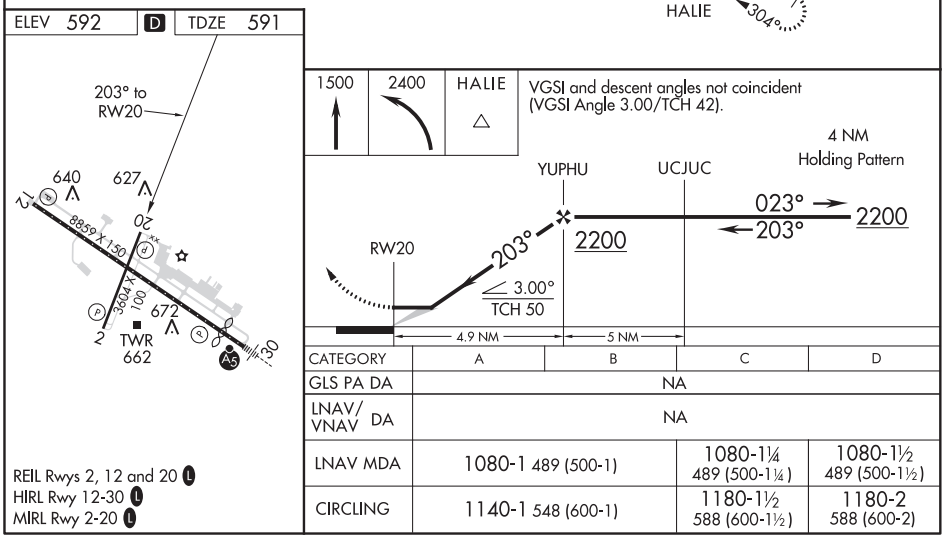
GPS or RNP-0.3 required.
DME/DME RNP-0.3 NA.

NA

MISSED APPROACH: Climb to 1500 then climbing left turn to 2400 direct HALIE WP and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9





CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	1080-1 489 (500-1)		1080-1¼ 489 (500-1¼)	1080-1½ 489 (500-1½)
CIRCLING	1140-1 548 (600-1)		1180-1½ 588 (600-1½)	1180-2 588 (600-2)

REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GARY, INDIANA

AL-748 (FAA)

19115

RNAV (GPS) Y RWY 12

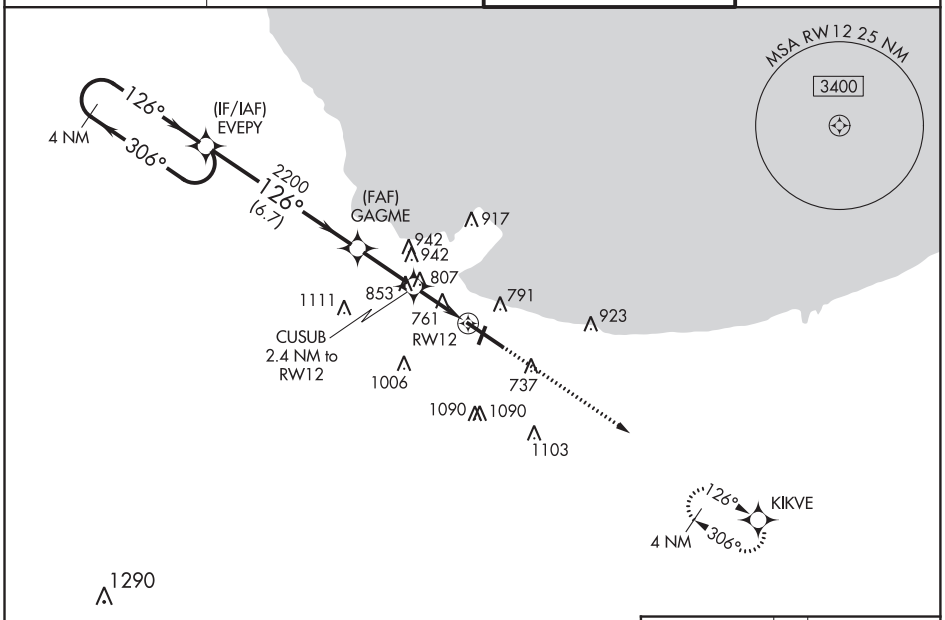
GARY/CHICAGO INTL (GYY)

WAAS CH 70623 W12A	APP CRS 126°	Rwy ldg 7959 TDZE 597 Apt Elev 597

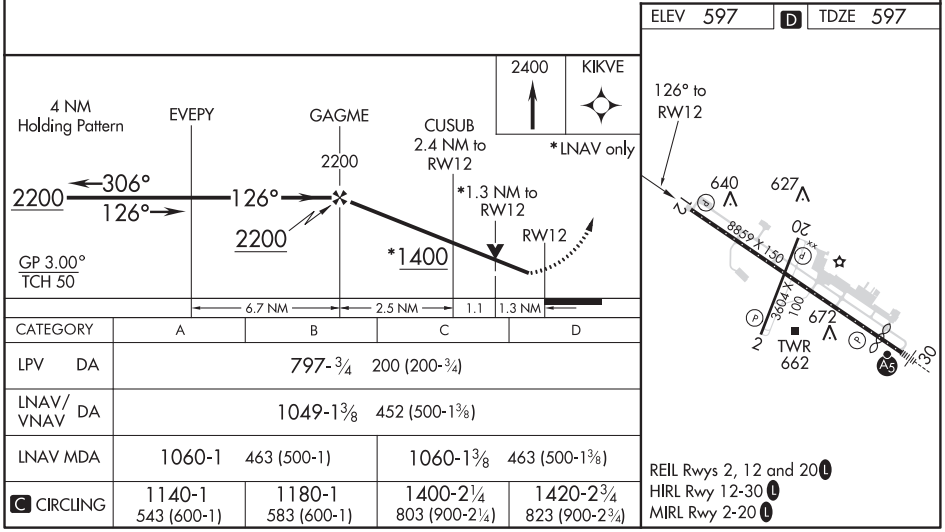
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.
Rwy 12 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH:
Climb to 2400 direct KIKVE and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9



EC-2, 25 FEB 2021 to 22 APR 2021



CATEGORY	A	B	C	D
LPV DA	797-¾ 200 (200-¾)			
LNAV/VNAV DA	1049-1⅜ 452 (500-1⅜)			
LNAV MDA	1060-1 463 (500-1)		1060-1⅜ 463 (500-1⅜)	
C CIRCLING	1140-1 543 (600-1)	1180-1 583 (600-1)	1400-2¼ 803 (900-2¼)	1420-2¾ 823 (900-2¾)

REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L

EC-2, 25 FEB 2021 to 22 APR 2021

GARY, INDIANA
Amdt 2 29MAR18

41°37′N-87°25′W

GARY/CHICAGO INTL (GYY)

RNAV (GPS) Y RWY 12

WAAS CH 78323 W30A	APP CRS 306°	Rwy ldg 7959 TDZE 591 Apt Elev 597

RNAV (GPS) Y RWY 30

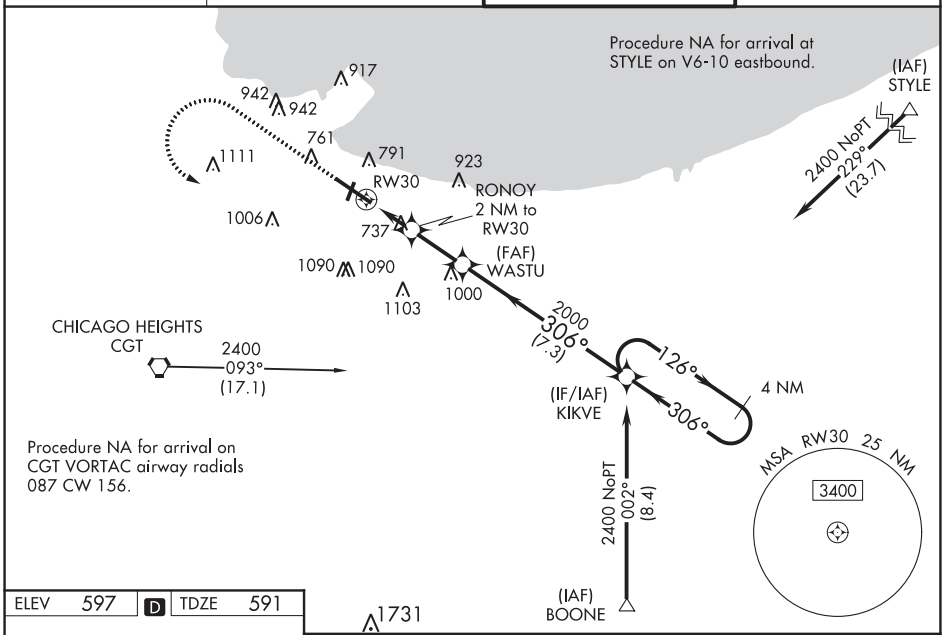
GARY/CHICAGO INTL (GYY)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Chicago Midway Intl altimeter setting and increase all DA 47 feet and all MDA 60 feet, increase LNAV/VNAV visibility all Cats and LNAV Cats C/D visibility to RVR 5000, increase Circling Cat C/D visibility ¼ mile. Baro-VNAV and VDP NA with Chicago Midway Intl altimeter setting. ** RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Chicago Midway Intl altimeter setting.

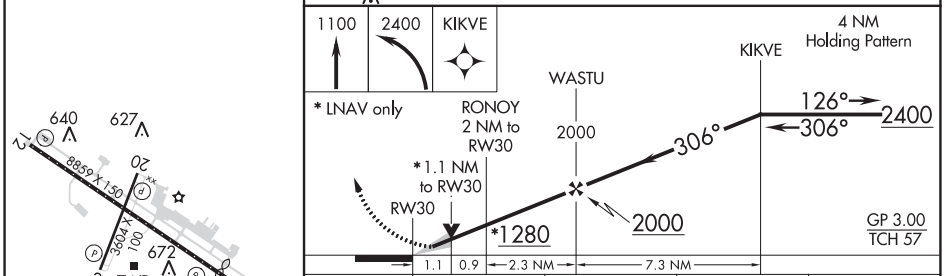
MALSR

MISSED APPROACH: Climb to 1100 then climbing left turn to 2400 direct KIKVE and hold.

ATIS	CHICAGO APP CON	GARY TOWER *	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9



ELEV 597	D	TDZE 591



CATEGORY	A	B	C	D
LPV DA	** 791/24 200 (200-½)			
LNAV/VNAV DA	991/45 400 (400-⅞)			
LNAV MDA	1000/24 409 (500-½)		1000/40 409 (500-¾)	
C CIRCLING	1140-1 543 (600-1)	1180-1 583 (600-1)	1400-2¼ 803 (900-2¼)	1420-2¾ 823 (900-2¾)

REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GARY, INDIANA | AL-748 (FAA) | 20142

COPTER ILS or LOC RWY 30

GARY/CHICAGO INTL (GYY)

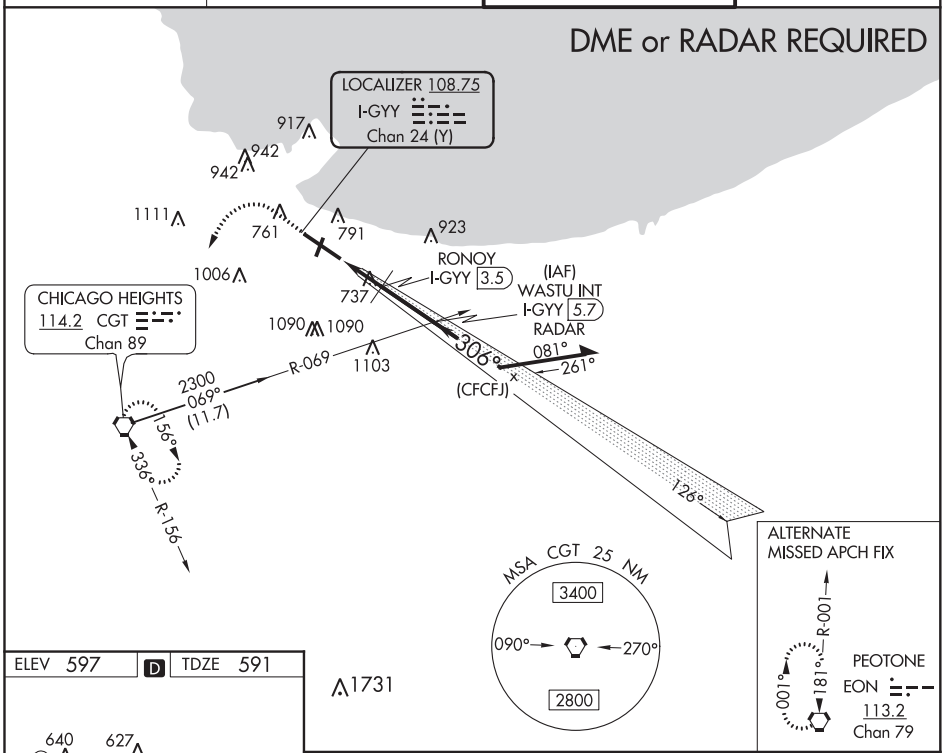
LOC I-GYY 108.75 Chan 24 (Y)	APP CRS 306°	Rwy ldg 7959 TDZE 591 Apt Elev 597

When local altimeter setting not recieved, use Chicago Midway Intl altimeter setting and increase all DA 46 feet and all MDA 60 feet. VDP NA with Chicago Midway Intl altimeter setting.

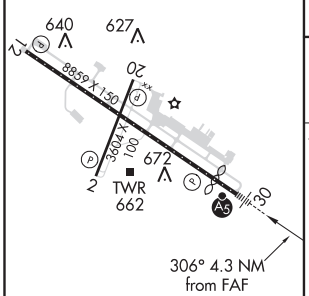
MALSR

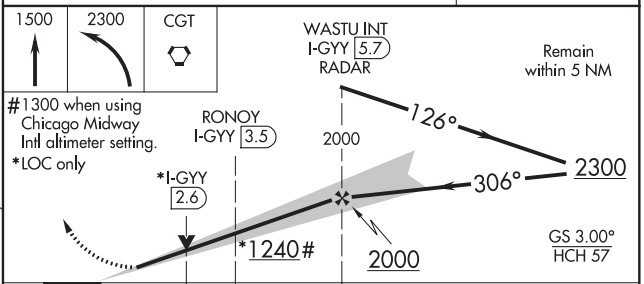
MISSED APPROACH: Climb to 1500 then climbing left turn to 2300 direct CGT VORTAC and hold.

ATIS	CHICAGO APP CON	GARY TOWER ★	GND CON
134.575	133.1 285.6	125.6 (CTAF) L	121.9



ELEV 597 | D | TDZE 591





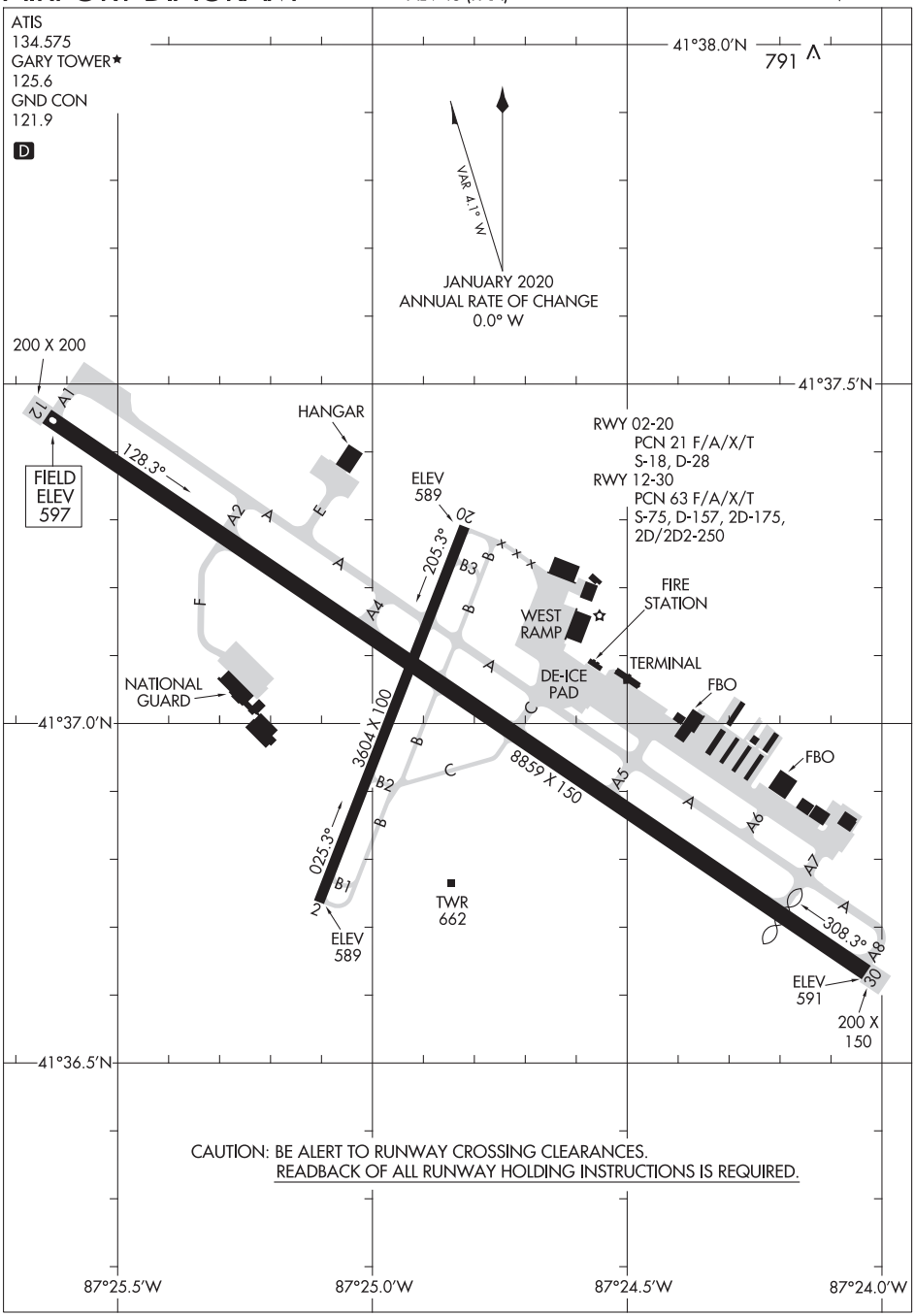
REIL Rwys 2, 12 and 20 L
HIRL Rwy 12-30 L
MIRL Rwy 2-20 L

FAF to MAP 4.3 NM					
Knots	45	60	75	90	105
Min:Sec	5:44	4:18	3:26	2:52	2:27

CATEGORY	COPTER
S-ILS 30	791-¼ 200 (200-¼)
S-LOC 30	1240-¼ 649 (700-¼)
RONOY FIX MINIMUMS	
S-LOC 30	1000-¼ 409 (500-¼)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

(ADELL6.ADELL) 20002

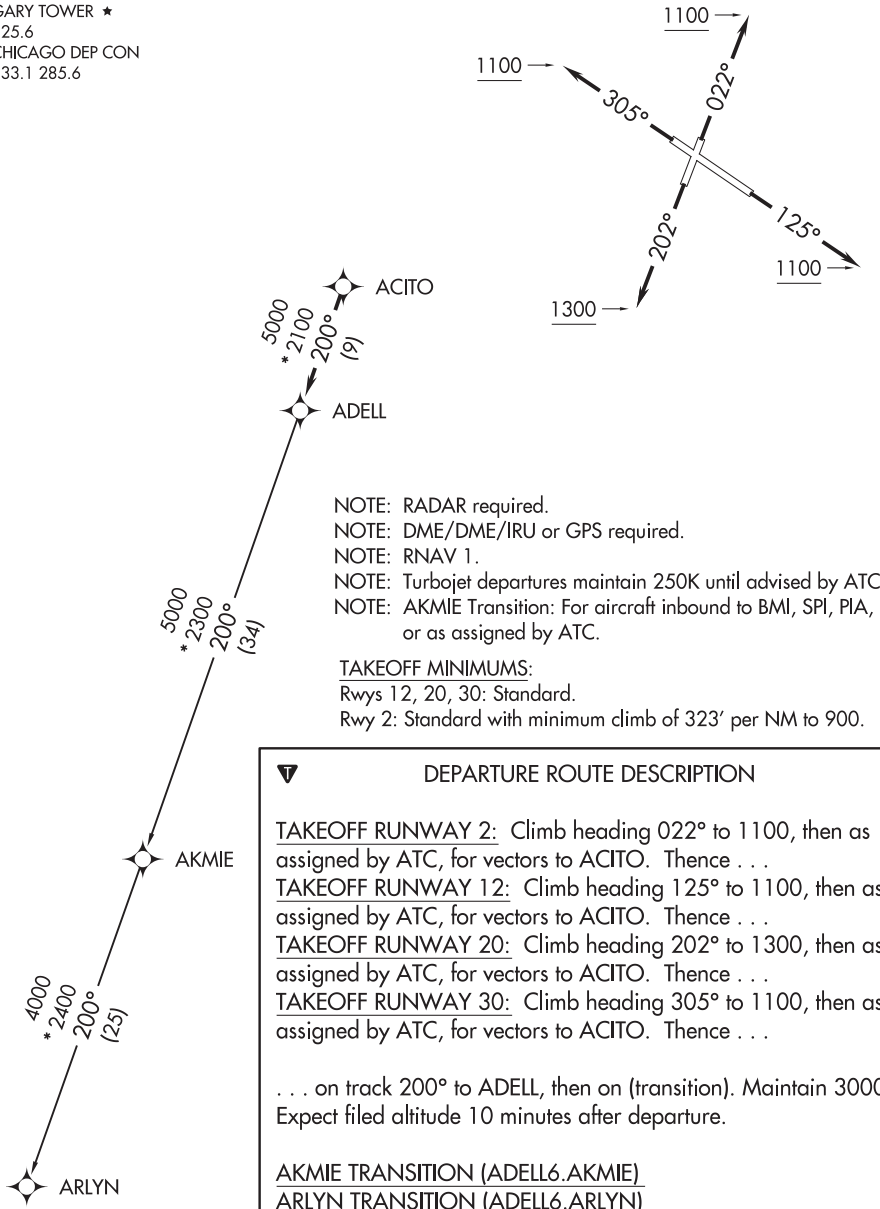
ADELL SIX DEPARTURE (RNAV)

AL-748 (FAA)

GARY/CHICAGO INTL (GYY)
GARY, INDIANA

ATIS
134.575
GND CON
121.9
GARY TOWER ★
125.6
CHICAGO DEP CON
133.1 285.6

TOP ALTITUDE: 3000



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojet departures maintain 250K until advised by ATC.
NOTE: AKMIE Transition: For aircraft inbound to BMI, SPI, PIA, or as assigned by ATC.

TAKEOFF MINIMUMS:
Rwys 12, 20, 30: Standard.
Rwy 2: Standard with minimum climb of 323′ per NM to 900.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 022° to 1100, then as assigned by ATC, for vectors to ACITO. Thence . . .
TAKEOFF RUNWAY 12: Climb heading 125° to 1100, then as assigned by ATC, for vectors to ACITO. Thence . . .
TAKEOFF RUNWAY 20: Climb heading 202° to 1300, then as assigned by ATC, for vectors to ACITO. Thence . . .
TAKEOFF RUNWAY 30: Climb heading 305° to 1100, then as assigned by ATC, for vectors to ACITO. Thence . . .

. . . on track 200° to ADELL, then on (transition). Maintain 3000. Expect filed altitude 10 minutes after departure.

AKMIE TRANSITION (ADELL6.AKMIE)
ARLYN TRANSITION (ADELL6.ARLYN)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

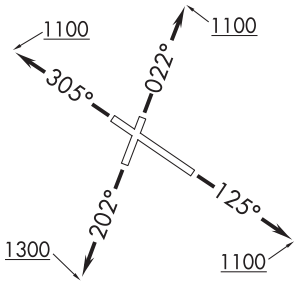
ADELL SIX DEPARTURE (RNAV)
(ADELL6.ADELL) 10OCT19

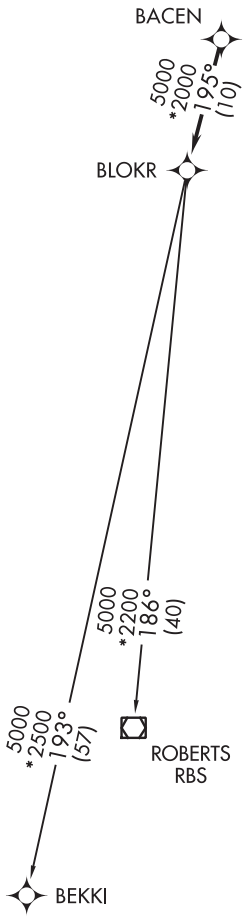
GARY, INDIANA
GARY/CHICAGO INTL (GYY)

BLOKR SIX DEPARTURE (RNAV)

ATIS
134.575
GND CON
121.9
GARY TOWER ★
125.6
CHICAGO DEP CON
133.1 285.6

TOP ALTITUDE: 3000





NOTE: Chart not to scale.

TAKEOFF MINIMUMS:

Rwys 12, 20, 30: Standard.
Rwy 2: Standard with minimum climb of 323′ per NM to 900.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojet departures maintain 250K until advised by ATC.
NOTE: ROBERTS TRANSITION: For aircraft inbound to CMI or STL, or as assigned by ATC.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 022° to 1100, then as assigned by ATC, for vectors to BACEN. Thence. . . .
TAKEOFF RUNWAY 12: Climb heading 125° to 1100, then as assigned by ATC, for vectors to BACEN. Thence. . . .
TAKEOFF RUNWAY 20: Climb heading 202° to 1300, then as assigned by ATC, for vectors to BACEN. Thence. . . .
TAKEOFF RUNWAY 30: Climb heading 305° to 1100, then as assigned by ATC, for vectors to BACEN. Thence. . . .

. . . .on track 195° to BLOKR, then on (transition). Maintain 3000. Expect filed altitude 10 minutes after departure.

BEKKI TRANSITION (BLOKR6.BEKKI):
ROBERTS TRANSITION (BLOKR6.RBS):

EC-2, 25 FEB 2021 to 22 APR 2021

(CARYN6.CARYN) 19283

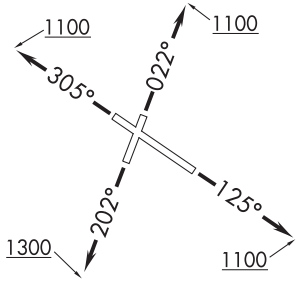
CARYN SIX DEPARTURE (RNAV)

AL-748 (FAA)

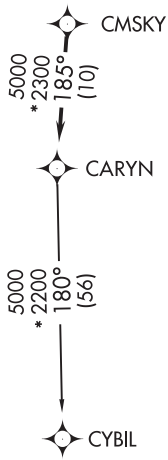
GARY/CHICAGO INTL (GYY)
GARY, INDIANA

ATIS
134.575
GND CON
121.9
GARY TOWER ★
125.6
CHICAGO DEP CON
133.1 285.6

TOP ALTITUDE: 3000



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojet departures maintain 250K until advised by ATC.



TAKEOFF MINIMUMS:
Rwy 2: Standard with minimum climb of 323′ per NM to 900.
Rwys 12, 20, 30: Standard.

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 022° to 1100, then as assigned by ATC, for vectors to CMSKY. Thence. . . .
TAKEOFF RUNWAY 12: Climb heading 125° to 1100, then as assigned by ATC, for vectors to CMSKY. Thence. . . .
TAKEOFF RUNWAY 20: Climb heading 202° to 1300, then as assigned by ATC, for vectors to CMSKY. Thence. . . .
TAKEOFF RUNWAY 30: Climb heading 305° to 1100, then as assigned by ATC, for vectors to CMSKY. Thence. . . .

. . . . on track 185° to CARYN, then on (transition). Maintain 3000.
Expect filed altitiude 10 minutes after departure.

CYBIL TRANSITION (CARYN6.CYBIL):

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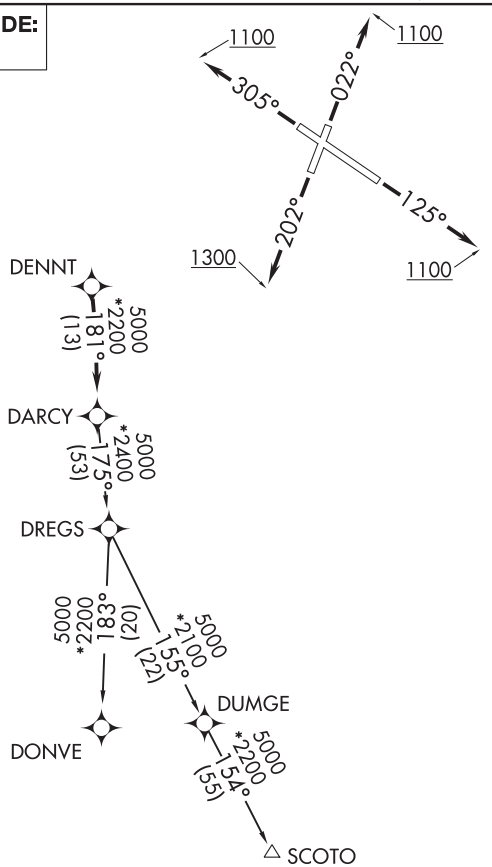
DARCY SIX DEPARTURE (RNAV)

ATIS
134.575
GND CON
121.9
GARY TOWER ★
125.6
CHICAGO DEP CON
133.1 285.6

TOP ALTITUDE: 3000



TAKEOFF MINIMUMS:
Rwy 2: Standard with minimum climb of 323′ per NM to 900.
Rwys 12, 20, 30: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojet departures maintain 250K until advised by ATC.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 022° to 1100, then as assigned by ATC, for vectors to DENNT. Thence. . . .
TAKEOFF RUNWAY 12: Climb heading 125° to 1100, then as assigned by ATC, for vectors to DENNT. Thence. . . .
TAKEOFF RUNWAY 20: Climb heading 202° to 1300, then as assigned by ATC, for vectors to DENNT. Thence. . . .
TAKEOFF RUNWAY 30: Climb heading 305° to 1100, then as assigned by ATC, for vectors to DENNT. Thence. . . .

. . . . on track 181° to DARCY, then on (transition). Maintain 3000.
Expect filed altitude 10 minutes after departure.

DONVE TRANSITION (DARCY6.DONVE):
SCOTO TRANSITION (DARCY6.SCOTO):

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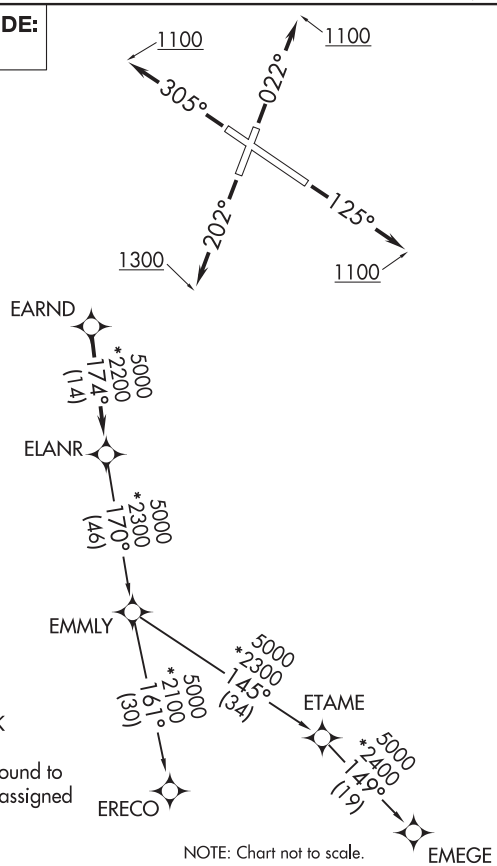
(ELANR6.ELANR) 20002 AL-748 (FAA)

ELANR SIX DEPARTURE (RNAV)

GARY/CHICAGO INTL (GYY)
GARY, INDIANA

ATIS
134.575
GND CON
121.9
GARY TOWER ★
125.6
CHICAGO DEP CON
133.1 285.6

TOP ALTITUDE: 3000



NOTE: Chart not to scale.

TAKEOFF MINIMUMS:

Rwy 2: Standard with minimum climb of 323′ per NM to 2700.
Rwy 12: Standard with minimum climb of 330′ per NM to 2700.
Rwy 20: Standard with minimum climb of 350′ per NM to 2700.
Rwy 30: Standard with minimum climb of 320′ per NM to 2700.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Turbojet departures maintain 250K until advised by ATC.
NOTE: EMMLY Transition: For aircraft inbound to Indianapolis Terminal Area, or as assigned by ATC.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 2: Climb heading 022° to 1100, then as assigned by ATC, for vectors to EARND. Thence. . . .
TAKEOFF RUNWAY 12: Climb heading 125° to 1100, then as assigned by ATC, for vectors to EARND. Thence. . . .
TAKEOFF RUNWAY 20: Climb heading 202° to 1300, then as assigned by ATC, for vectors to EARND. Thence. . . .
TAKEOFF RUNWAY 30: Climb heading 305° to 1100, then as assigned by ATC, for vectors to EARND. Thence. . . .

. . . .on track 174° to ELANR, then on (transition). Maintain 3000.
Expect filed altitude 10 minutes after departure.

EMEGE TRANSITION (ELANR6.EMEGE):
EMMLY TRANSITION (ELANR6.EMMLY):
ERECO TRANSITION (ELANR6.ERECO):

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RNAV (GPS) RWY 36
BROWN COUNTY (GEO)

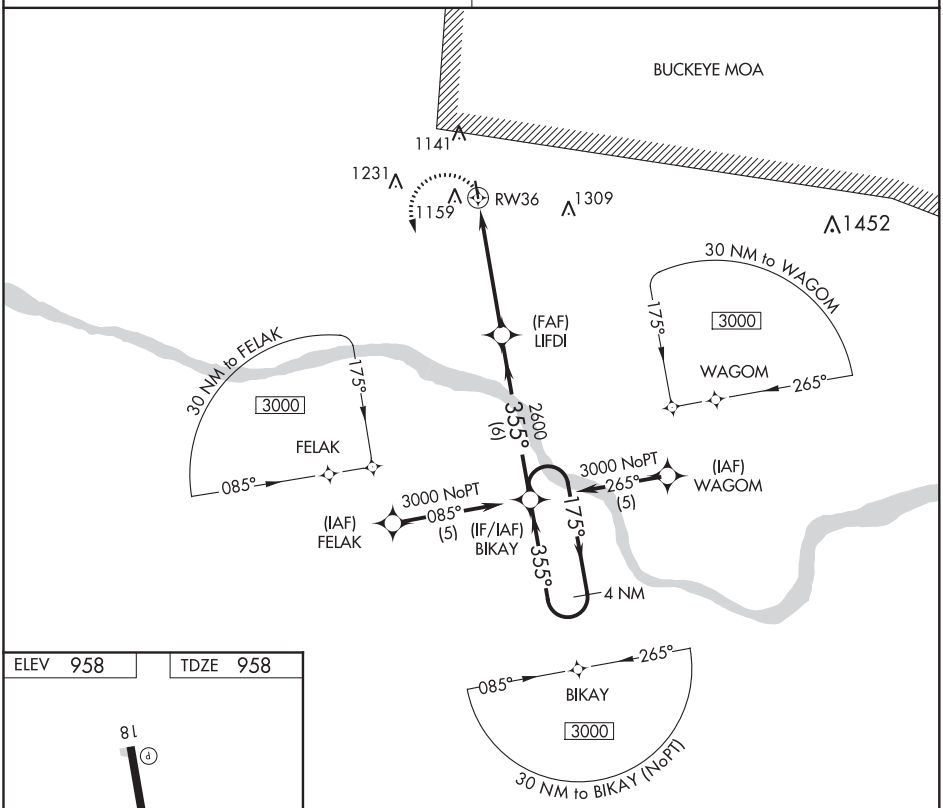
APP CRS	Rwy ldg	3530
355°	TDZE	958
	Apt Elev	958

DME/DME RNP-0.3 NA. Use Cincinnati/Northern Kentucky Intl, KY altimeter setting. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

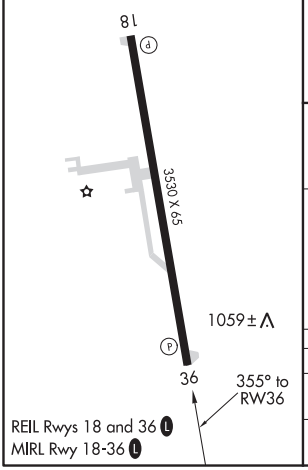
NA

MISSED APPROACH: Climbing left turn to 3000 direct BIKAY WP and hold.

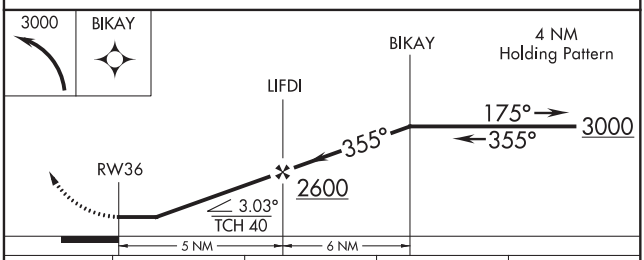
INDIANAPOLIS CENTER	CTAF (L)
135.575 290.5	122.9



ELEV 958 TDZE 958



REIL Rwys 18 and 36 (L)
MIRL Rwy 18-36 (L)



CATEGORY	A	B	C	D
LNAV MDA	1420-1 462 (500-1)		1420-1¼ 462 (500-1¼)	NA
CIRCLING	1560-1 602 (700-1)	1580-1 622 (700-1)	1600-1¾ 642 (700-1¾)	NA

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GEORGETOWN, OHIO

AL-6250 (FAA)

20254

VOR/DME-A
BROWN COUNTY (GEO)

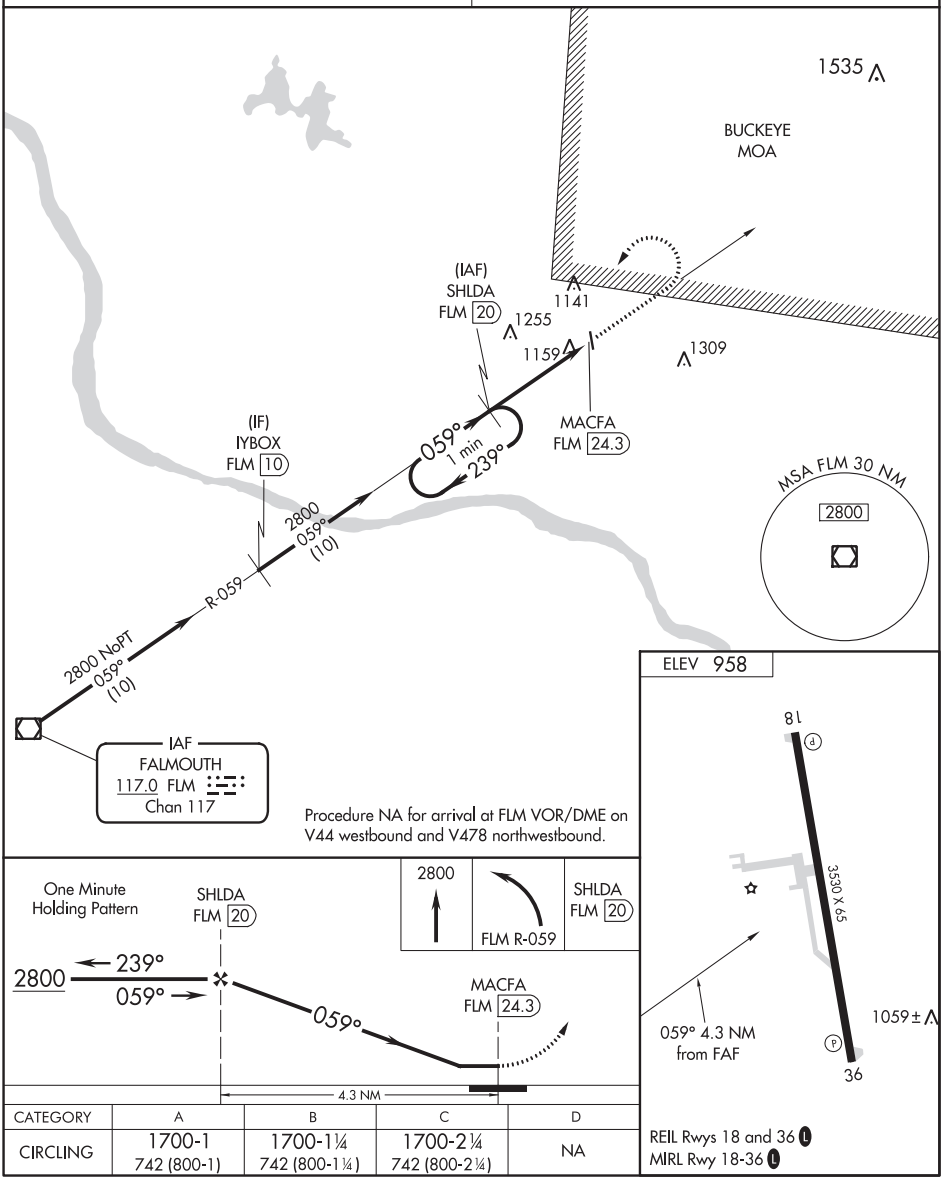
VOR/DME FLM	APP CRS	Rwy ldg	N/A
117.0	059°	TDZE	N/A
Chan 117		Apt Elev	958

Use Cincinnati/Northern Kentucky Intl, KY altimeter setting. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

NA

MISSED APPROACH: Climb to 2800 then left turn via FLM VOR/DME R-059 to SHLDA 20 DME and hold.

INDIANAPOLIS CENTER	CTAF (L)
135.575 290.5	122.9



CATEGORY	A	B	C	D
CIRCLING	1700-1 742 (800-1)	1700-1¼ 742 (800-1¼)	1700-2¼ 742 (800-2¼)	NA

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ILS or LOC RWY 27
GOSHEN MUNI (GSH)

LOC I-GSH	APP CRS	Rwy ldg	6050
108.3	273°	TDZE	827
		Apt Elev	827

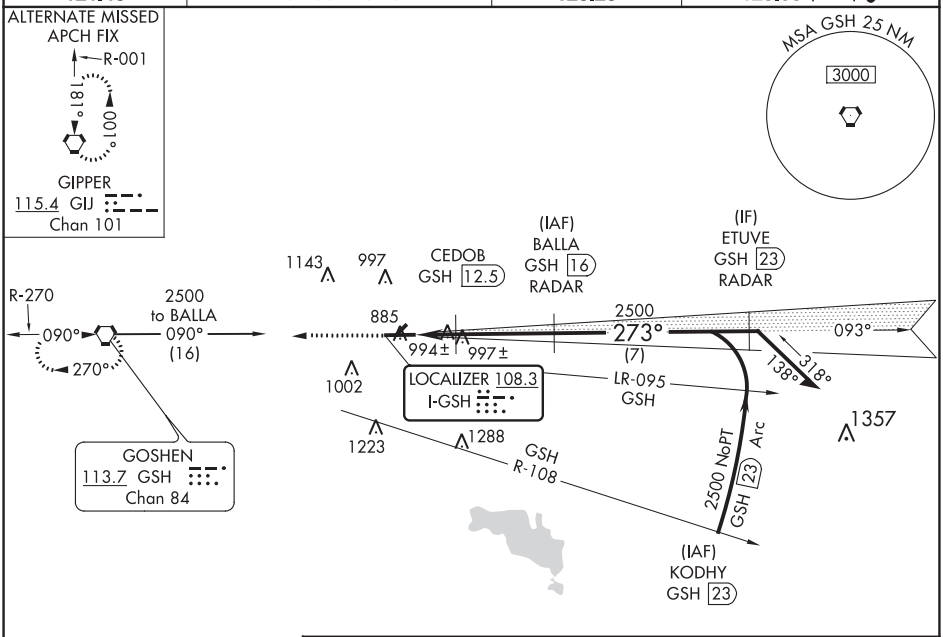
DME or RADAR required.

NA

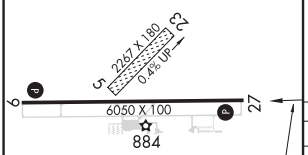
When local altimeter setting not received, use Warsaw Muni altimeter setting and increase all DAs/MDAs 40 feet and increase CEDOB Fix Minimums S-LOC 27 Cats C/D visibility ¼ mile. Circling NA to Rwys 5 and 25.

MISSED APPROACH: Climb to 2500 direct GSH VORTAC and hold.

ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
121.45	132.05 257.8	125.25	123.05 (CTAF) L



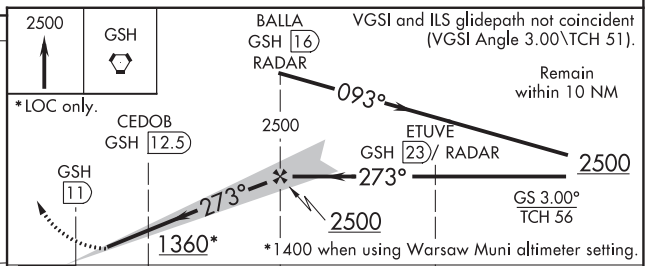
ELEV 827 TDZE 827



273° 5 NM from FAF

HIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D
S-ILS 27	1027-¾ 200 (200-¾)			
S-LOC 27	1360-1 533 (600-1)		1360-1½ 533 (600-1½)	1360-1¾ 533 (600-1¾)
CIRCLING	1360-1 533 (600-1)		1360-1½ 533 (600-1½)	1380-2 553 (600-2)
CEDOB FIX MINIMUMS				
S-LOC 27	1300-1 473 (500-1)		1300-1¼ 473 (500-1¼)	1300-1½ 473 (500-1½)
CIRCLING	1300-1 473 (500-1)		1300-1½ 473 (500-1½)	1380-2 553 (600-2)

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GOSHEN, INDIANA — AL-171 (FAA) — 20310

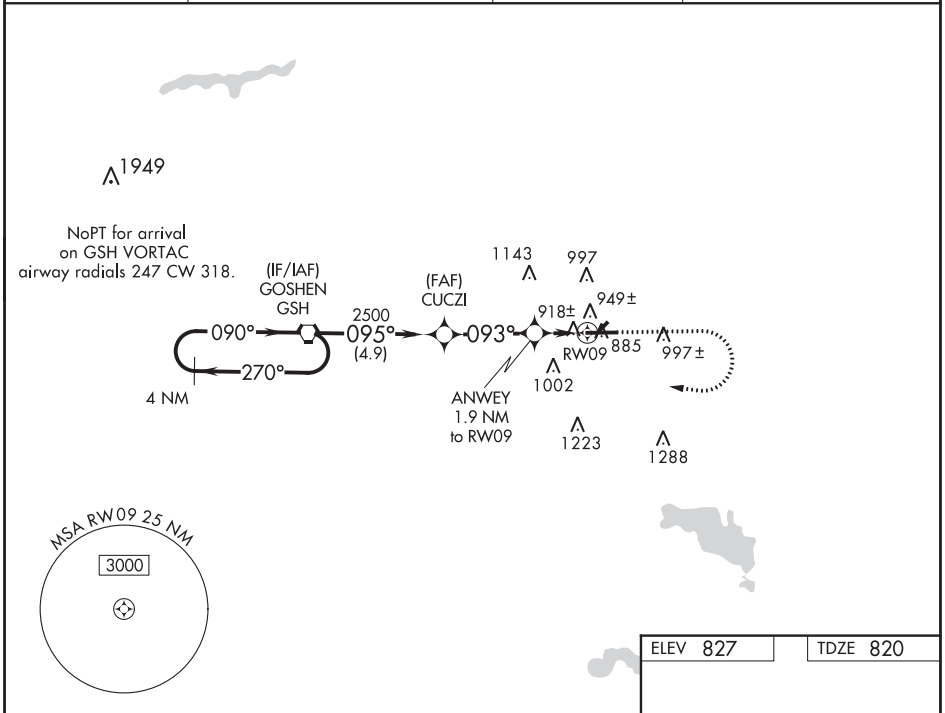
WAAS CH 69325 W09A	APP CRS 093°	Rwy ldg 6050 TDZE 820 Apt Elev 827

RNAV (GPS) RWY 9
GOSHEN MUNI (GSH)

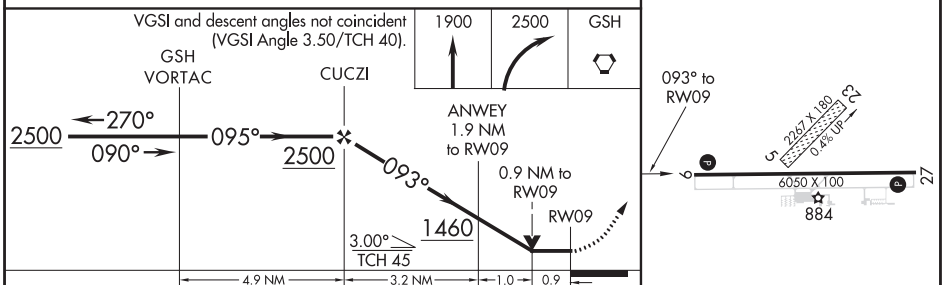
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP NA with Warsaw altimeter setting. Circling to Rwys 5/23 NA. When local altimeter setting not received, use Warsaw altimeter setting and increase all MDA 40 feet and LP and LNAV Cats C and D visibility 1/8 mile.

MISSED APPROACH: Climb to 1900 then climbing right turn to 2500 direct GSH VORTAC and hold.

ASOS	SOUTH BEND APP CON★	CLNC DEL	UNICOM
121.45	132.05 257.8	125.25	123.05 (CTAF) L



ELEV 827	TDZE 820



CATEGORY	A	B	C	D
LP MDA	1180-1 360 (400-1)			
LNAV MDA	1200-1 380 (400-1)			
CIRCLING	1300-1 473 (500-1)		1300-1½ 473 (500-1½)	1380-2 553 (600-2)

HIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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RNAV (GPS) RWY 27
GOSHEN MUNI (GSH)

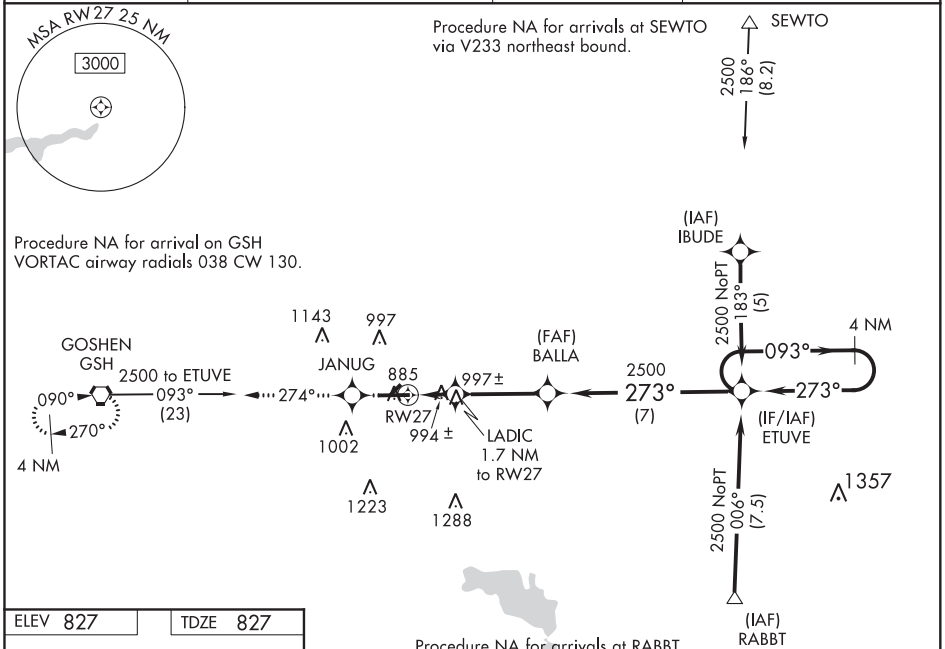
WAAS CH 97606 W27A	APP CRS 273°	Rwy ldg 6050 TDZE 827 Apt Elev 827

RNP APCH.

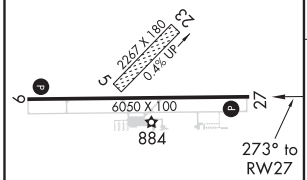
Baro-VNAV NA when using Warsaw Muni altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C. When local altimeter setting not received, use Warsaw Muni altimeter setting and increase all DAs/MDAs 40 feet, and increase LPV all Cats visibility ¼ mile. Circling NA to Rwys 5 and 23. Rwy 27 helicopter visibility reduction below ¾ SM NA.

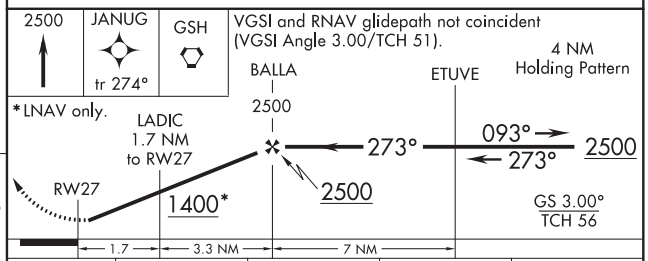
MISSED APPROACH: Climb to 2500 direct JANUG and on 274° track to GSH VORTAC and hold.

ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
121.45	132.05 257.8	125.25	123.05 (CTAF) L



ELEV 827	TDZE 827





CATEGORY	A	B	C	D
LPV DA	1120-1 293 (300-1)			
LNAV/VNAV DA	1307-1¾ 480 (500-1¾)			
LNAV MDA	1260-1 433 (500-1)		1260-1¼ 433 (500-1¼)	1260-1½ 433 (500-1½)
CIRCLING	1300-1 473 (500-1)		1300-1½ 473 (500-1½)	1380-2 553 (600-2)

HIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

GOSHEN, INDIANA

AL-171 (FAA)

20310

VOR RWY 9
GOSHEN MUNI (GSH)

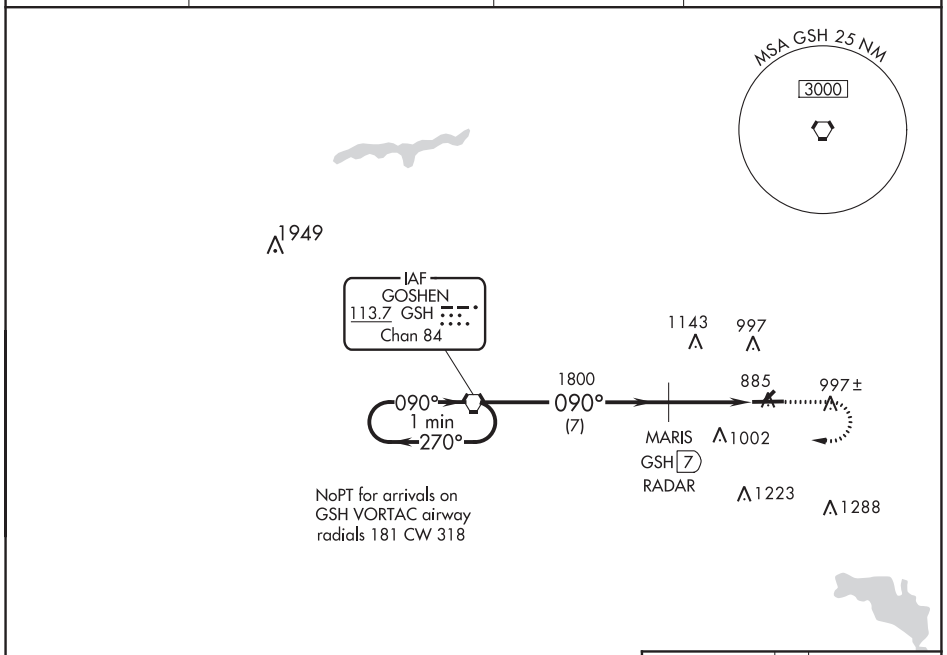
VORTAC GSH	APP CRS	Rwy ldg	6050
113.7	090°	TDZE	820
Chan 84		Apt Elev	827

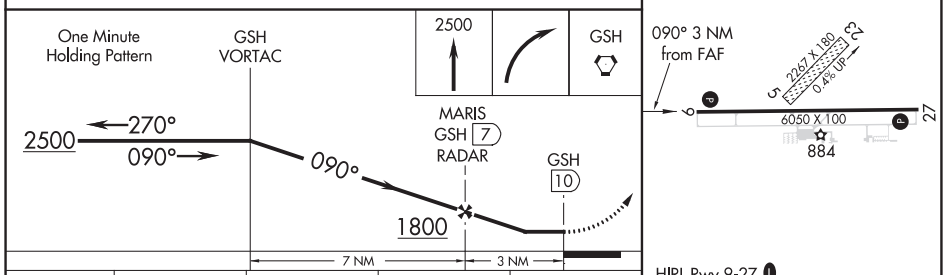
DME or RADAR required.

Circling NA to Rwys 5 and 23.
Rwy 9 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 then right turn direct GSH VORTAC and hold.

ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
121.45	132.05 257.8	125.25	123.05 (CTAF) L





HIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

CATEGORY	A	B	C	D
S-9	1300-1 480 (500-1)		1300-1¼ 480 (500-1¼)	1300-1½ 480 (500-1½)
CIRCLING	1300-1 473 (500-1)		1300-1½ 473 (500-1½)	1380-2 553 (600-2)

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

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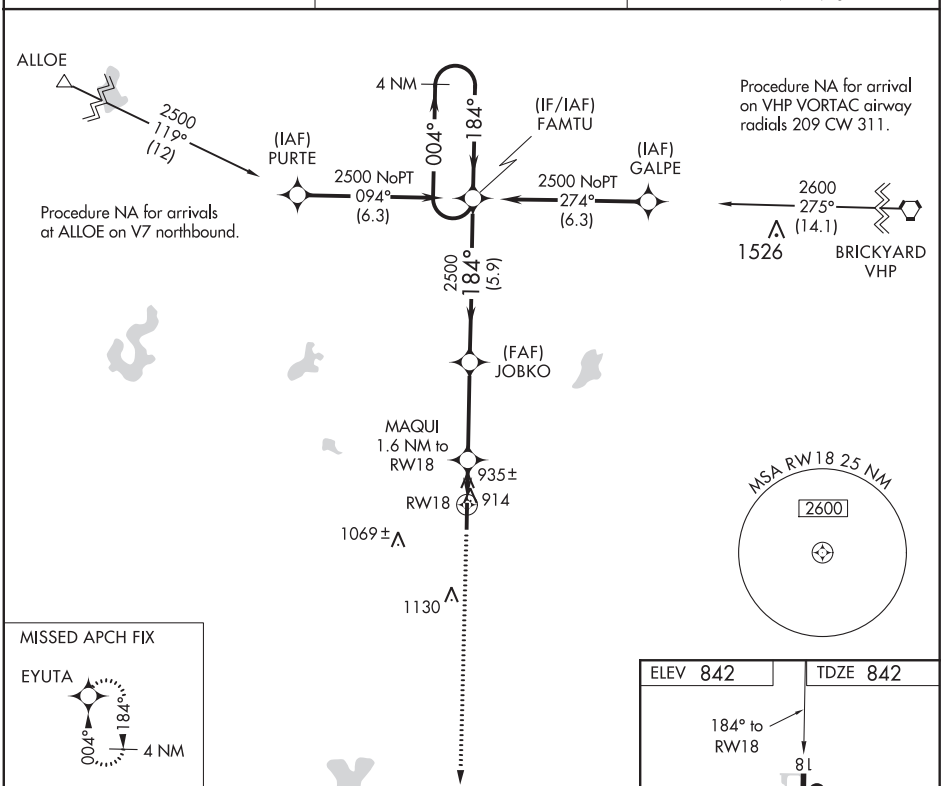
WAAS CH 86906 W18A	APP CRS 184°	Rwy ldg 5002 TDZE 842 Apt Elev 842

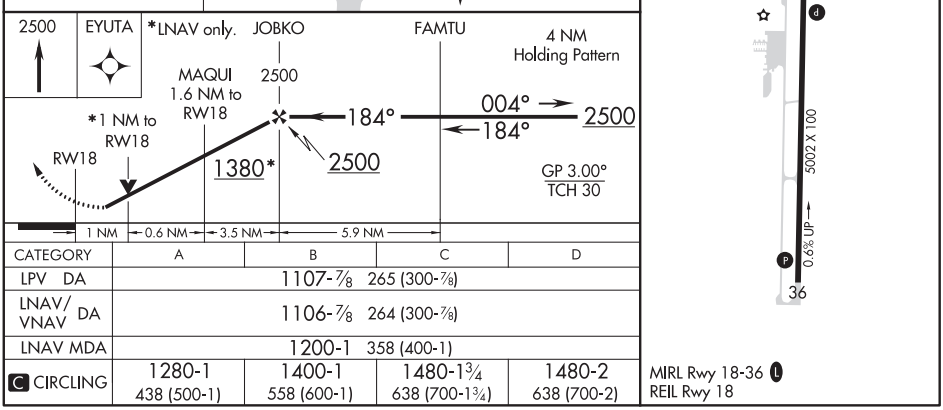
RNAV (GPS) RWY 18
PUTNAM COUNTY RGNL (GPC)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Rwy 18 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500 direct EYUTA and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
118.125	119.05 317.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1107-⅞ 265 (300-⅞)			
LNAV/VNAV DA	1106-⅞ 264 (300-⅞)			
LNAV MDA	1200-1 358 (400-1)			
C CIRCLING	1280-1 438 (500-1)	1400-1 558 (600-1)	1480-1¾ 638 (700-1¾)	1480-2 638 (700-2)

MIRL Rwy 18-36 L
REIL Rwy 18

EC-2, 25 FEB 2021 to 22 APR 2021

GREENCASTLE, INDIANA AL-6336 (FAA) 20086

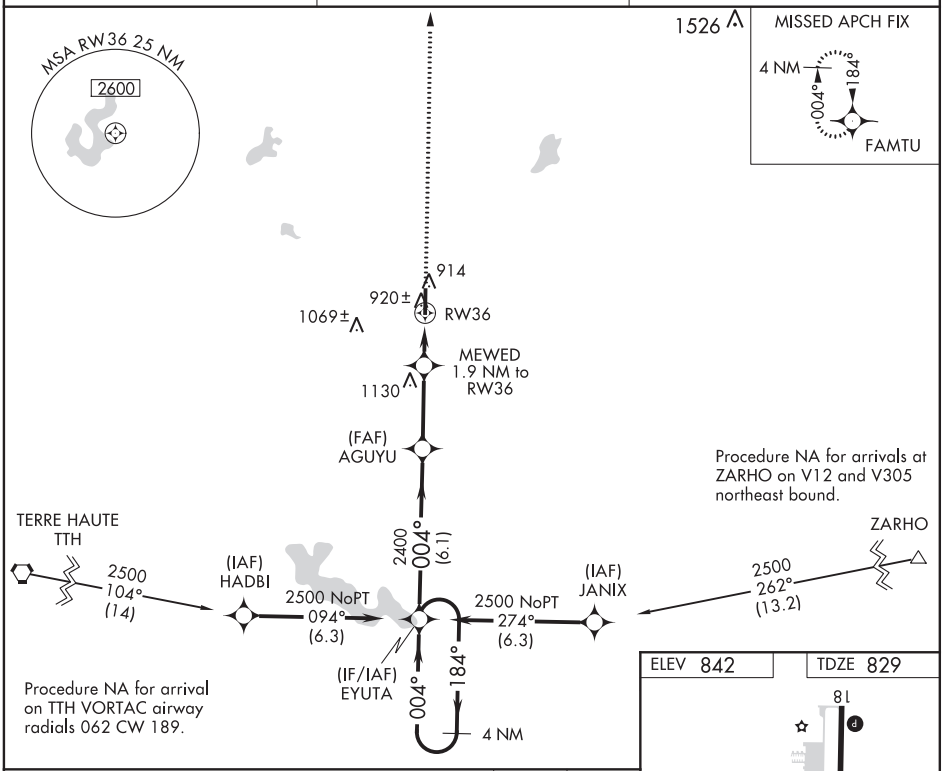
WAAS CH 40306 W36A	APP CRS 004°	Rwy ldg 5002 TDZE 829 Apt Elev 842

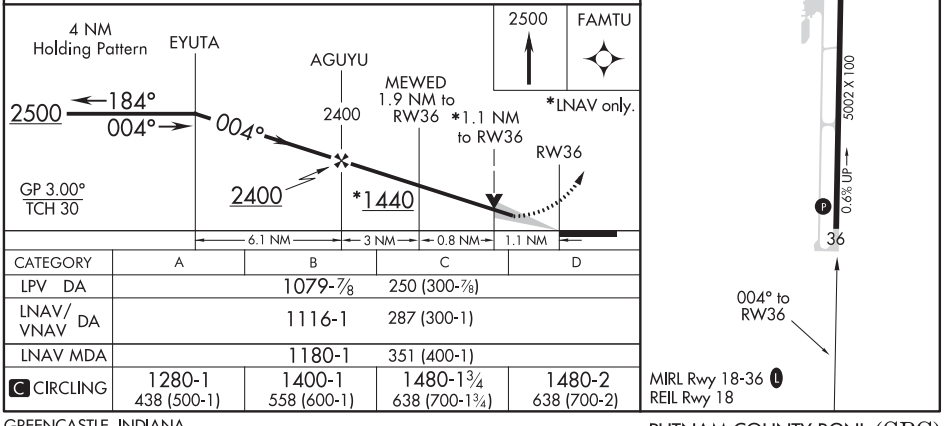
RNAV (GPS) RWY 36
PUTNAM COUNTY RGNL (GPC)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500 direct FAMTU and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
118.125	119.05 317.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1079-⅞	250 (300-⅞)		
LNAV/VNAV DA	1116-1	287 (300-1)		
LNAV MDA	1180-1	351 (400-1)		
C CIRCLING	1280-1 438 (500-1)	1400-1 558 (600-1)	1480-1¾ 638 (700-1¾)	1480-2 638 (700-2)

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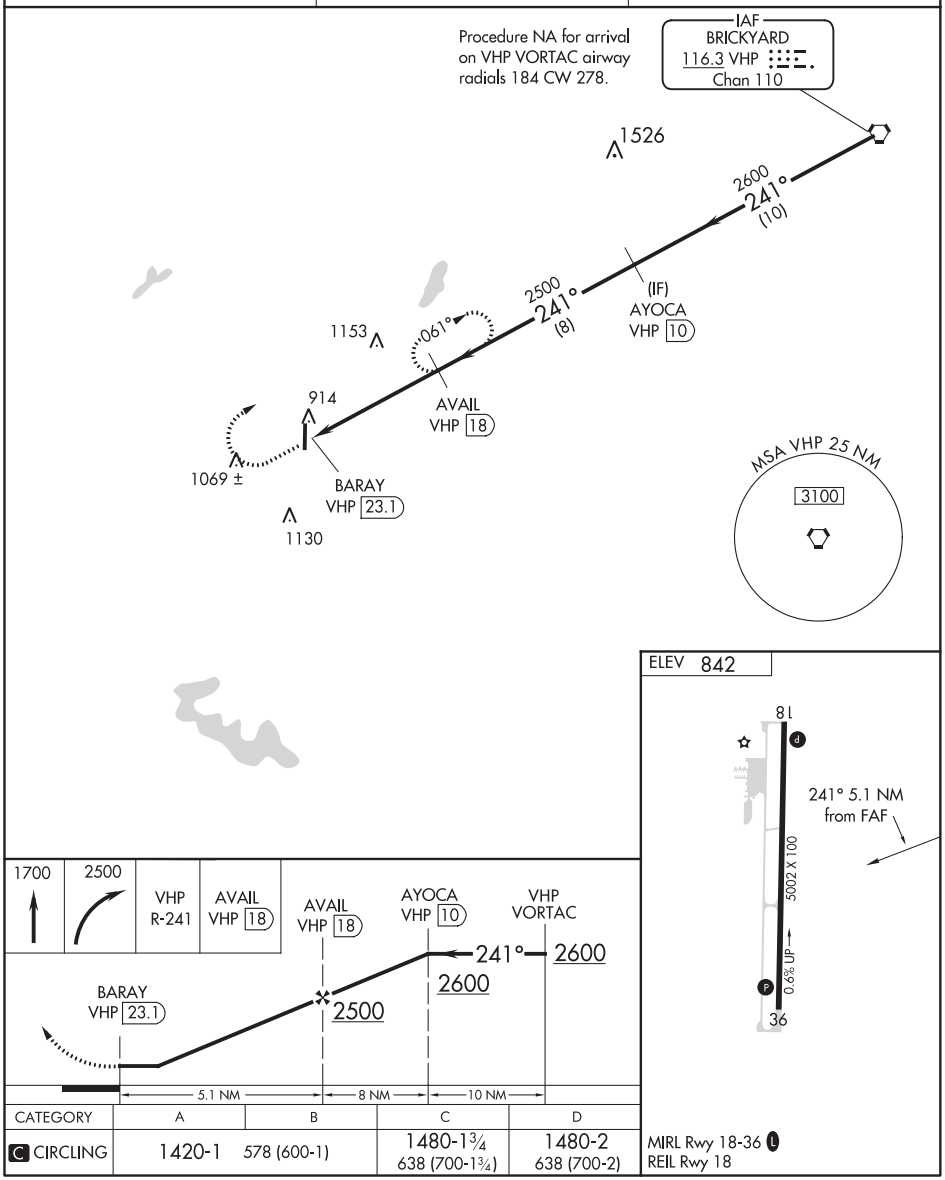
VORTAC VHP 116.3 Chan 110	APP CRS 241°	Rwy ldg N/A TDZE N/A Apt Elev 842

VOR-A
PUTNAM COUNTY RGNL (GPC)

DME required.

MISSED APPROACH: Climb to 1700 then climbing right turn to 2500 on VHP VORTAC R-241 to AVAIL/18 DME and hold.

AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
118.125	119.05 317.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1420-1	578 (600-1)	1480-1¾ 638 (700-1¾)	1480-2 638 (700-2)

MIRL Rwy 18-36 L
REIL Rwy 18

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EC-2, 25 FEB 2021 to 22 APR 2021

GREENSBURG, INDIANA | AL-6719 (FAA) | 20310

APP CRS	Rwy ldg	3333
014°	TDZE	912
	Apt Elev	912

RNAV (GPS) RWY 36
GREENSBURG MUNI (I34)

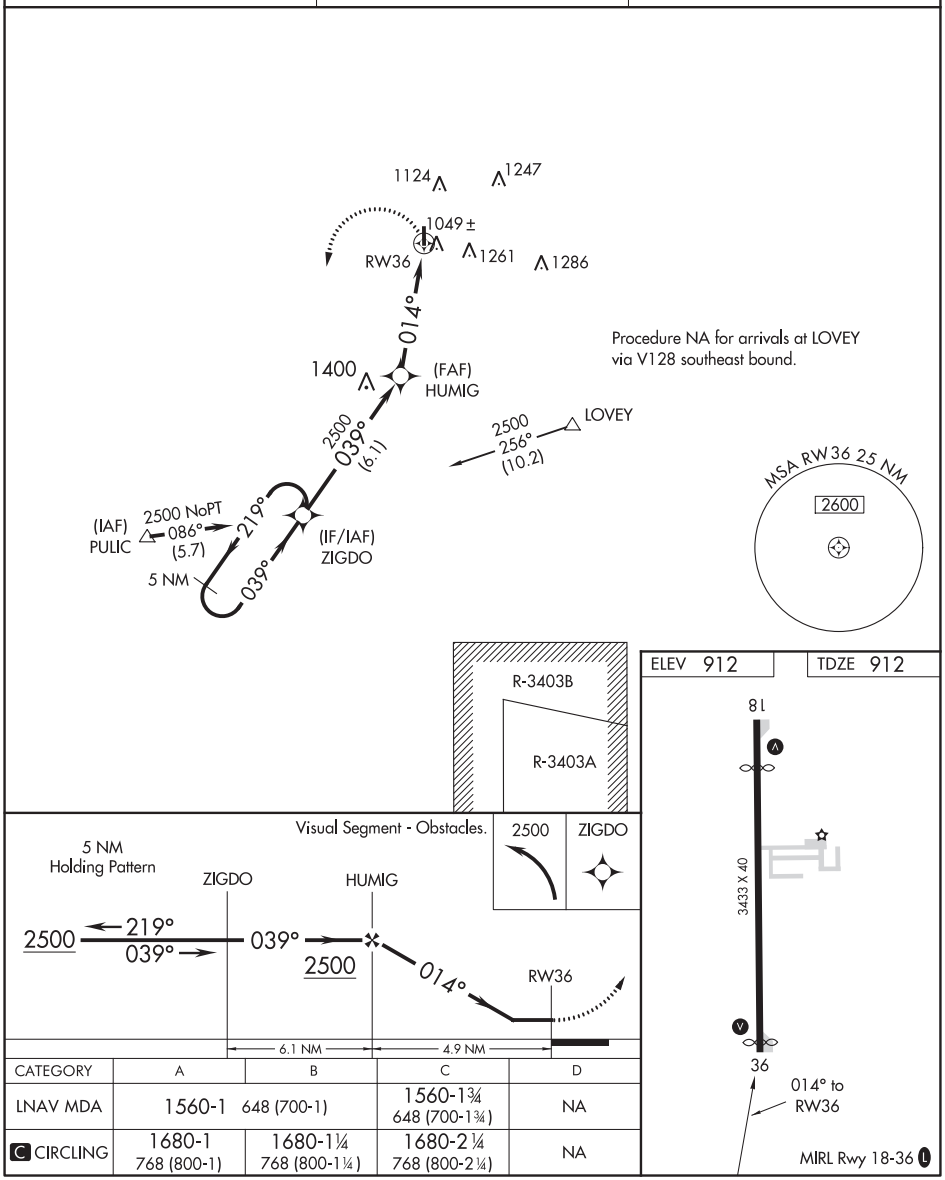
RNP APCH.

Use Columbus Muni altimeter setting; if not received, use Indianapolis Intl altimeter setting and increase all MDAs 40 feet.

NA

MISSED APPROACH: Climbing left turn to 2500 direct ZIGDO and hold.

BAK AWOS-3	INDIANAPOLIS APP CON	CTAF
119.75	127.15	122.9 L



CATEGORY	A	B	C	D
LNAV MDA	1560-1 648 (700-1)		1560-1¾ 648 (700-1¾)	NA
C CIRCLING	1680-1 768 (800-1)	1680-1¼ 768 (800-1¼)	1680-2¼ 768 (800-2¼)	NA

GREENSBURG, INDIANA
Orig-C 05NOV20

39°20′N-85°31′W

GREENSBURG MUNI (I34)
RNAV (GPS) RWY 36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME SHB 112.0 Chan 57	APP CRS 142°	Rwy ldg N/A TDZE N/A Apt Elev 912

VOR-A
GREENSBURG MUNI (I34)

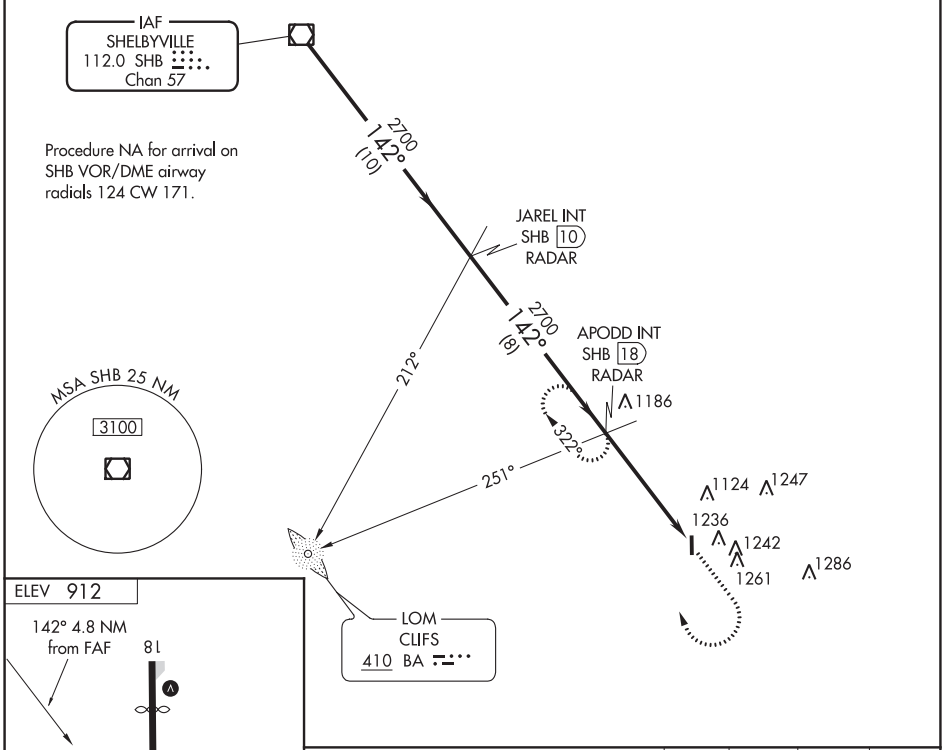
Use Columbus Muni altimeter setting; if not received, use Indianapolis Intl altimeter setting and increase all MDAs 40 feet.

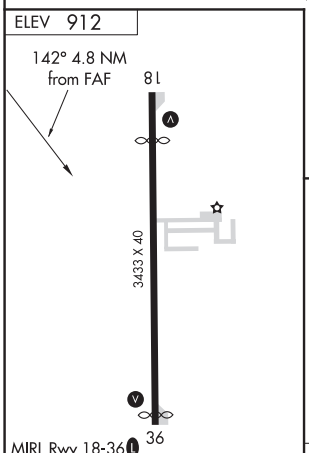
NA

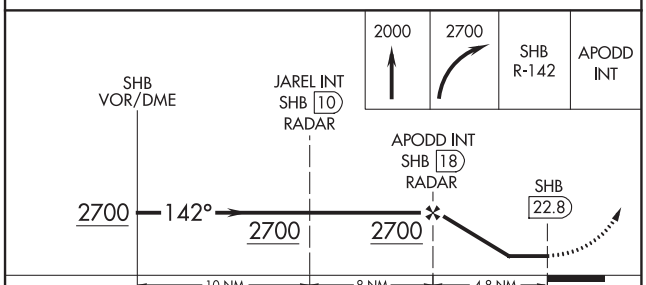
MISSED APPROACH: Climb to 2000 then climbing right turn to 2700 via SHB R-142 to APODD INT/SHB 18 DME/RADAR and hold.

BAK AWOS-3	INDIANAPOLIS APP CON	CTAF
119.75	127.15	122.9

ADF, DME or RADAR REQUIRED







FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

CATEGORY	A	B	C	D
C CIRCLING	1680-1 768 (800-1)	1680-1¼ 768 (800-1¼)	1680-2¼ 768 (800-2¼)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GRIFFITH, INDIANA

AL-5431 (FAA)

20310

RNAV (GPS) RWY 8
GRIFFITH-MERRILLVILLE (Ø5C)

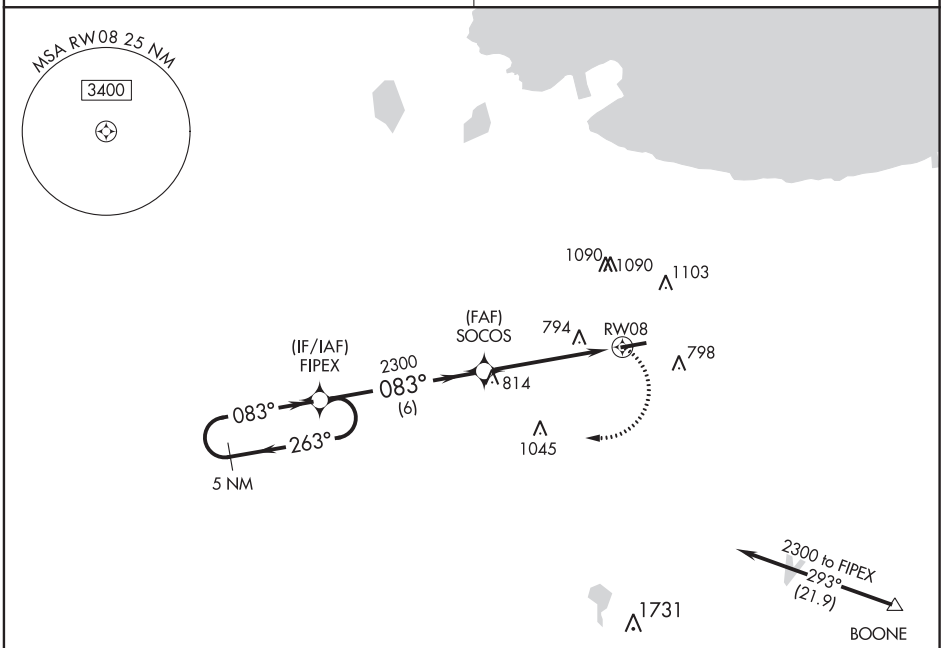
APP CRS	Rwy ldg	4899
083°	TDZE	634
	Apt Elev	634

RNP APCH.

NA Obtain local altimeter setting on CTAF; when not received use Chicago Midway Intl altimeter setting and increase all MDAs 60 feet. Visibility reduction by helicopters NA. Procedure NA at night.

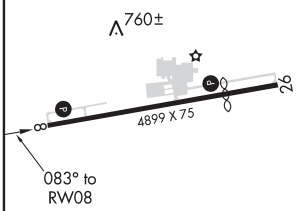
MISSED APPROACH: Climbing right turn to 2300 direct FIPEX and hold.

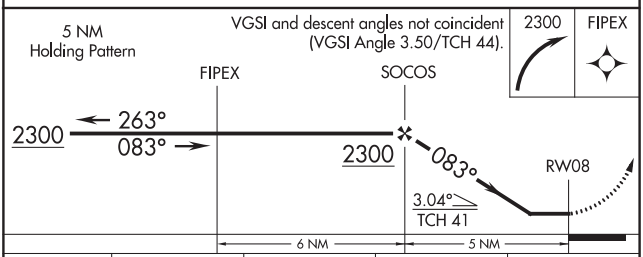
CHICAGO APP CON	UNICOM
133.1 285.6	123.0 (CTAF) L



Procedure NA for arrivals at BOONE via V422 southeastbound.

ELEV 634 | TDZE 634





CATEGORY	A	B	C	D
LNAV MDA	1080-1	446 (500-1)	NA	
C CIRCLING	1200-1	566 (600-1)	NA	

REIL Rwy 8 and 26 L
MIRL Rwy 8-26 L

RNAV (GPS) RWY 26
GRIFFITH-MERRILLVILLE (Ø5C)

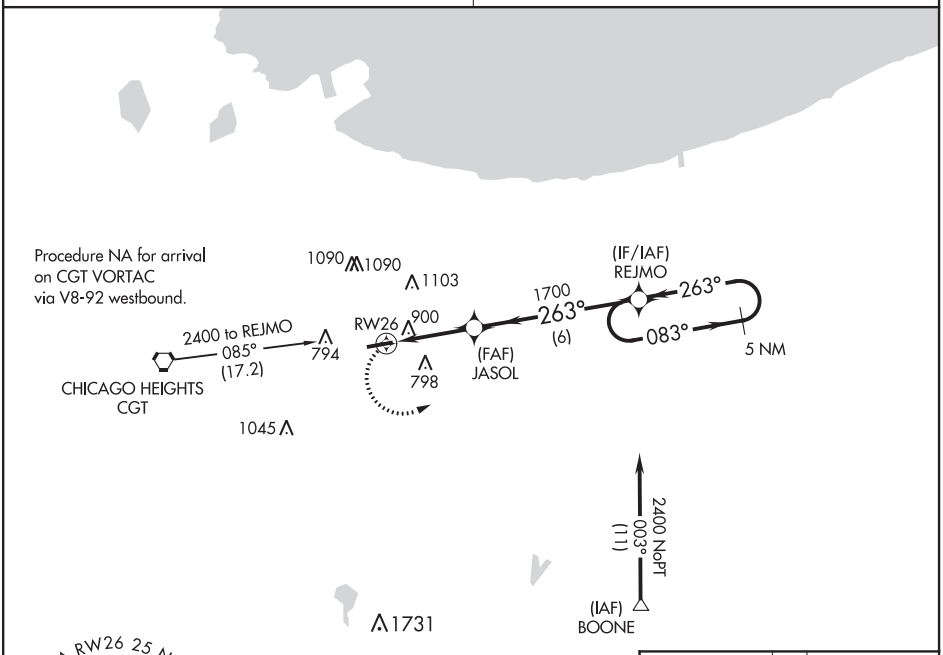
APP CRS	Rwy ldg	3779
263°	TDZE	632
	Apt Elev	634

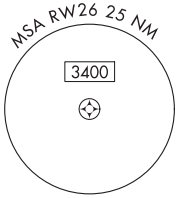
RNP APCH.

T
A NA Obtain local altimeter setting on CTAF; when not received use Chicago Midway Intl altimeter setting and increase all MDAs 60 feet. Visibility reduction by helicopters NA. Procedure NA at night.

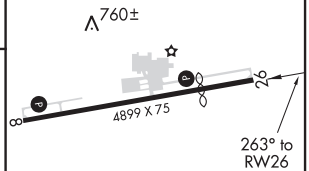
MISSED APPROACH: Climbing left turn to 2400 direct REJMO and hold.

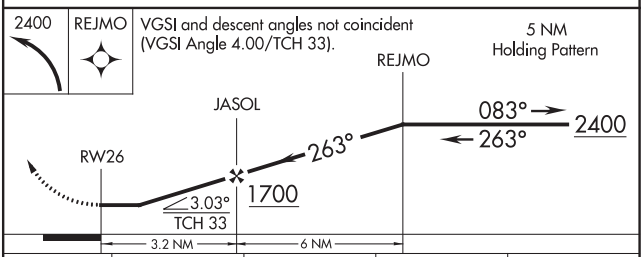
CHICAGO APP CON	UNICOM
133.1 285.6	123.0 (CTAF) L





ELEV 634	TDZE 632





CATEGORY	A	B	C	D
LNAV MDA	1160-1	528 (600-1)	NA	
C CIRCLING	1200-1	566 (600-1)	NA	

REIL Rwy 8 and 26 L
MIRL Rwy 8-26 L

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GRIFFITH, INDIANA

AL-5431 (FAA)

20086

VOR RWY 8

GRIFFITH-MERRILLVILLE (Ø5C)

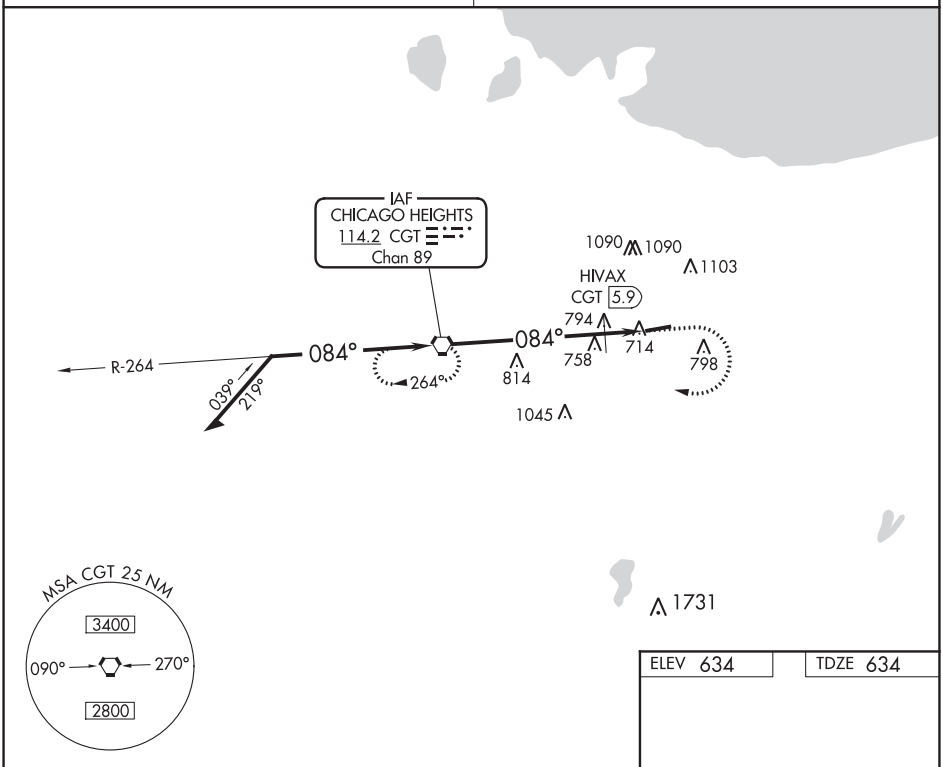
VORTAC CGT	APP CRS	Rwy ldg	4899
114.2	084°	TDZE	634
Chan 89		Apt Elev	634

T NA

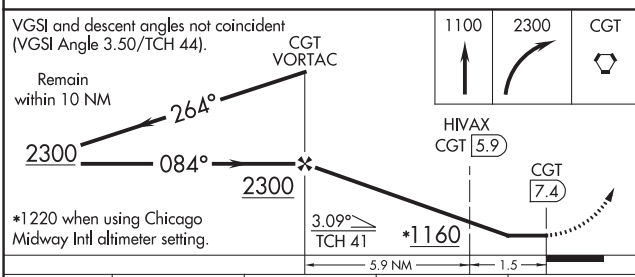
Obtain local altimeter setting on CTAF; when not received, use Chicago Midway Intl altimeter setting and increase all MDAs 60 feet. Visibility reduction by helicopters NA. Procedure NA at night.

MISSED APPROACH: Climb to 1100 then climbing right turn to 2300 direct CGT VORTAC and hold.

CHICAGO APP CON	UNICOM
133.1 285.6	123.0 (CTAF) L

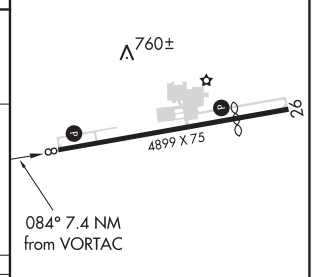


VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 44).



*1220 when using Chicago Midway Intl altimeter setting.

ELEV 634	TDZE 634



CATEGORY	A	B	C	D
S-8	1160-1	526 (600-1)	NA	
CIRCLING	1200-1	566 (600-1)	NA	
HIVAX FIX MINIMUMS				
S-8	1060-1	426 (500-1)	NA	
CIRCLING	1200-1	566 (600-1)	NA	

REIL Rwy 8 and 26 L
MIRL Rwy 8-26 L

FAF to MAP 7.4 NM

Knots	60	90	120	150	180
Min:Sec	7:24	4:56	3:42	2:58	2:28

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

PERU, INDIANA

ILS or LOC RWY 5

GRISSOM ARB (KGUS)

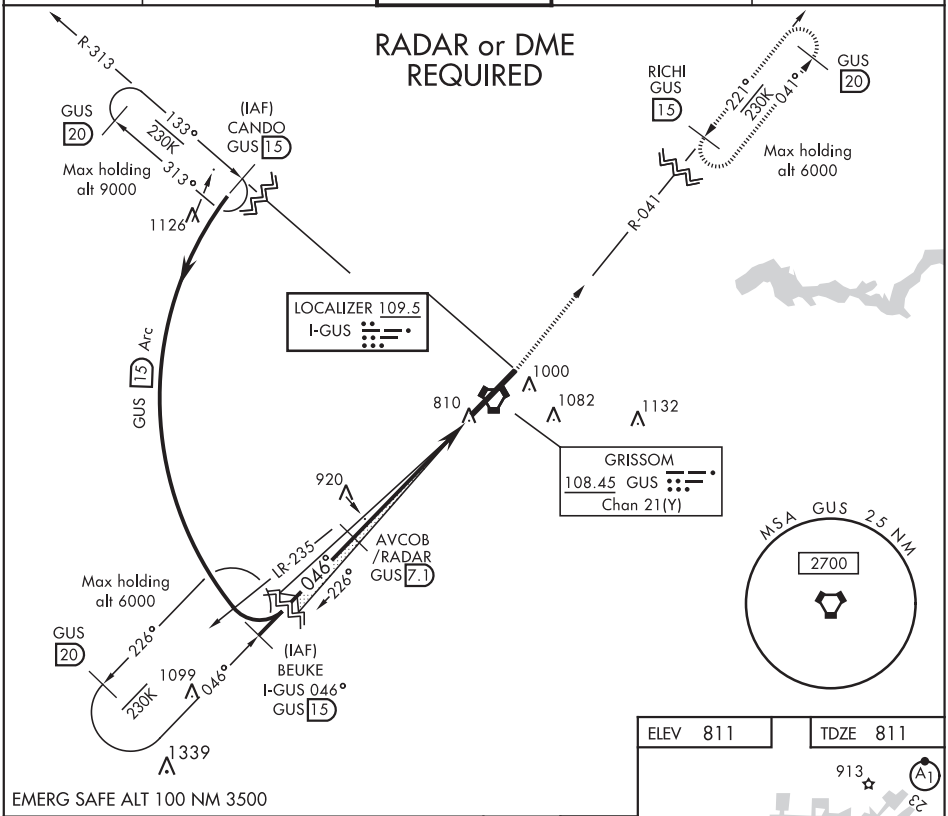
LOC I-GUS 109.5	APCH CRS 046°	Rwy ldg 12,501 TDZE 811 Arpt Elev 811	AL-470 [USAF]

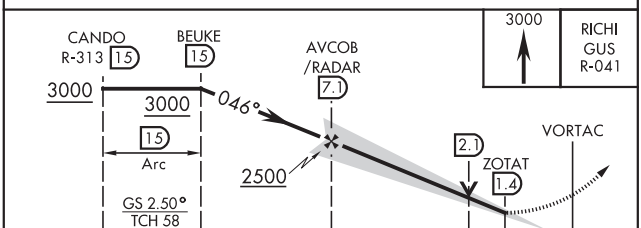
* When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT ABCDE RVR to 55 and vis to 1 mile.

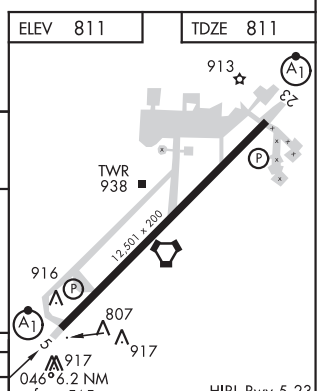
ALSF-1

MISSED APPROACH: Climb to 3000 on the GUS R-041 to RICHI (GUS R-041/15 DME) and hold.

ATIS	GRISSOM APP CON	GRISSOM TOWER ★	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 EAST 123.85 291.675 WEST	133.7 290.45	128.425 275.8	123.7 318.2







CATEGORY	A	B	C	D	E
S-ILS 5 *	1011/24		200 (200-½)		
S-LOC 5 **	1180/24 369 (400-½)		1180/35 369 (400-⅝)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

PERU, INDIANA
Amdt 8 06DEC18

40°39′N-86°09′W

GRISSOM ARB (KGUS)

ILS or LOC RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

20310

PERU, INDIANA

ILS or LOC RWY 23

LOC I-RSM 109.5	APCH CRS 226°	Rwy ldg 12,501 TDZE 799 Arpt Elev 811	AL-470 [USAF]	GRISSOM ARB (KGUS)

RADAR or DME required

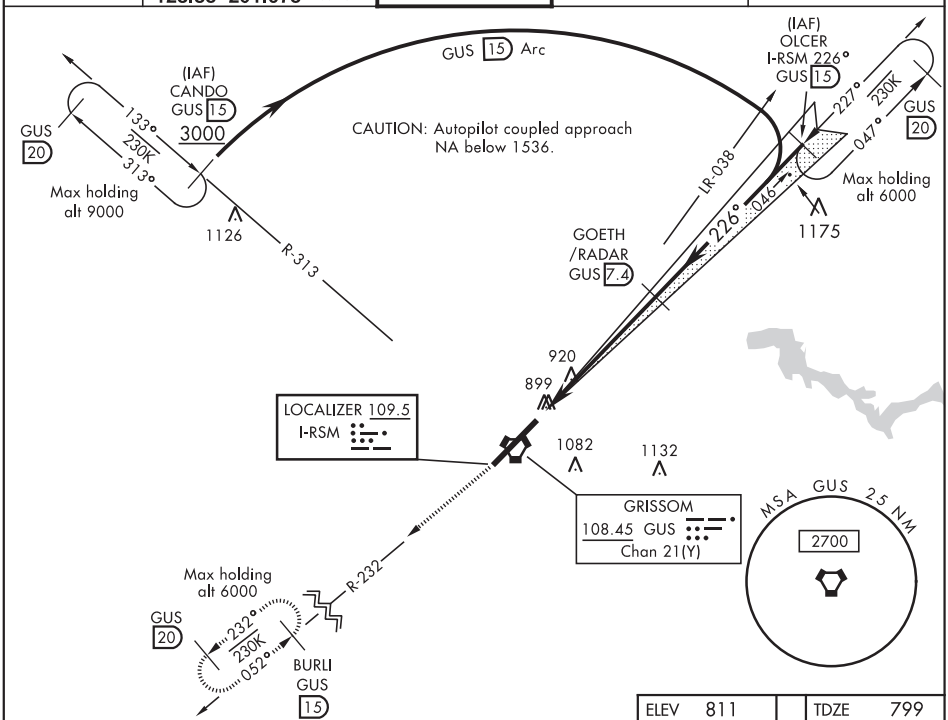
* When ALS inop, increase RVR to 40 and vis to ¾ mile.

** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.

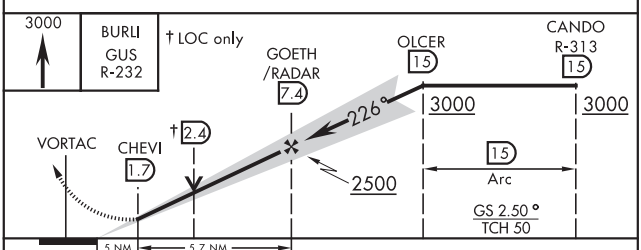
ALSF-1

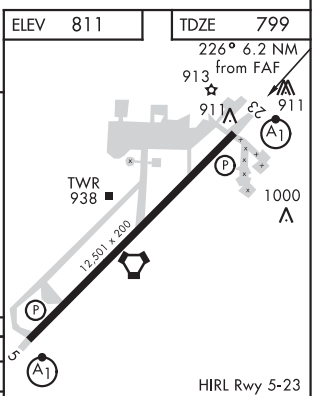
MISSED APPROACH: Climb to 3000 on the GUS R-232 to BURLI (GUS R-232/15 DME) and hold.

ATIS	GRISSOM APP CON		GRISSOM TOWER ★	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 123.85 291.675	EAST WEST	133.7 290.45	128.425 275.8	123.7 318.2



EMERG SAFE ALT 100 NM 3500





CATEGORY	A	B	C	D	E
S-ILS 23*	999/24 200 (200-½)				
S-LOC 23**	1180/24 381 (400-½)		1180/35 381 (400-⅝)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

PERU, INDIANA

RNAV (GPS) RWY 5

GRISSOM ARB (KGUS)

APCH CRS	Rwy ldg	12,501
046°	TDZE	811
	Arpt Elev	811

AL-470 (USAF)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1 1/8 miles.

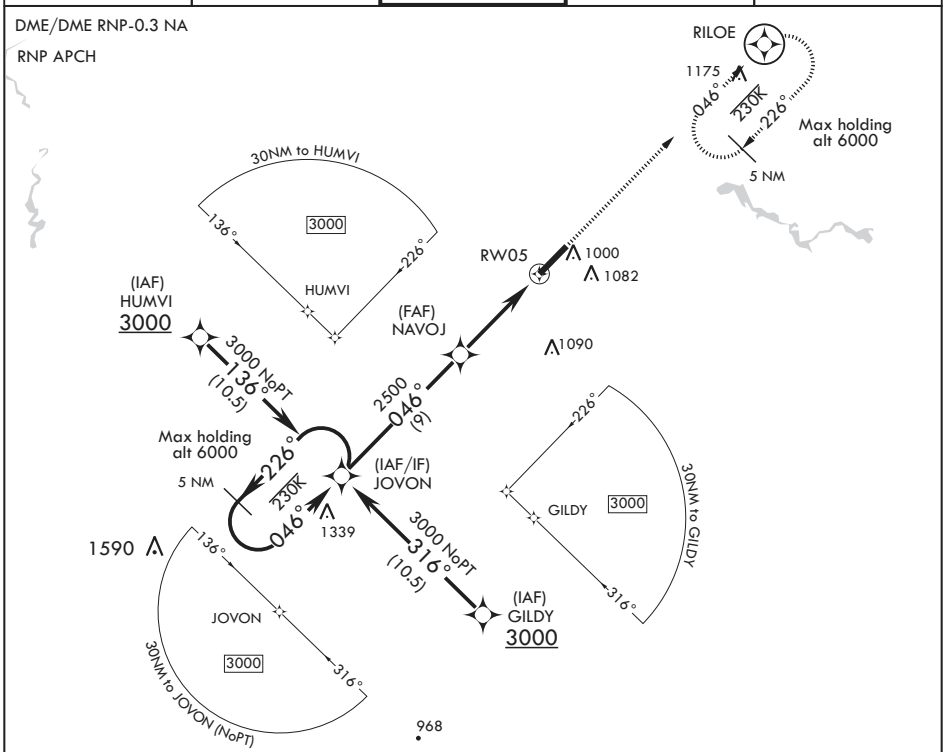
ALSF-1

MISSED APPROACH: Climb to 3000 direct RILOE and hold.

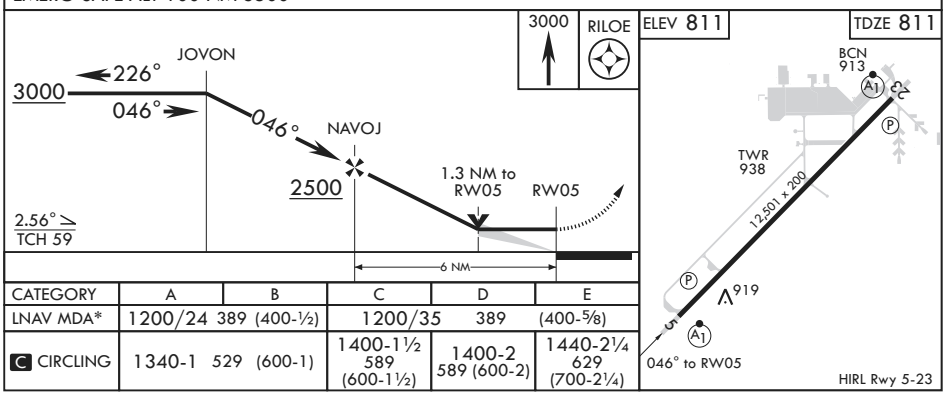
ATIS	APP CON/DEP CON	TOWER	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 E 123.85 291.675 W	133.7 290.45	128.425 275.8	123.7 318.2

DME/DME RNP-0.3 NA

RNP APCH



EMERG SAFE ALT 100 NM 3500



CATEGORY	A	B	C	D	E
LNAV MDA*	1200/24 389 (400-½)		1200/35 389 (400-⅝)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

PERU, INDIANA

40°39'N - 86°09'W

GRISSOM ARB (KGUS)

Amdt 6 31JAN19

RNAV (GPS) RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

19031

PERU, INDIANA

RNAV (GPS) RWY 23

GRISSOM ARB (KGUS)

APCH CRS	Rwy ldg	12,501
226°	TDZE	799
	Arpt Elev	811

AL-470 (USAF)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.

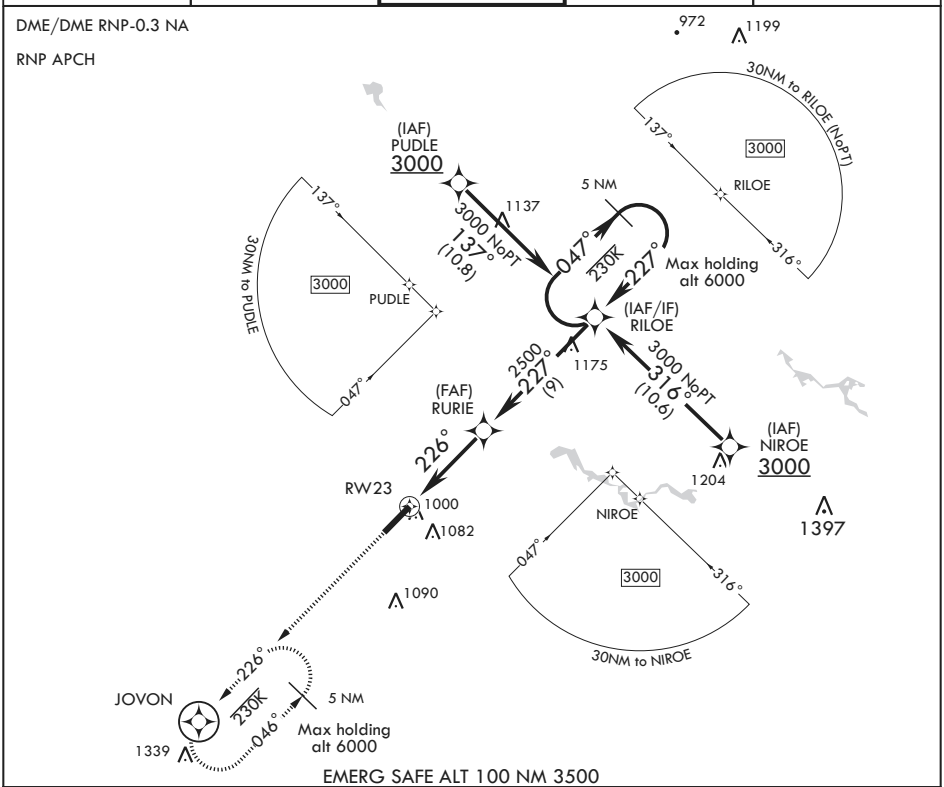
ALSF-1

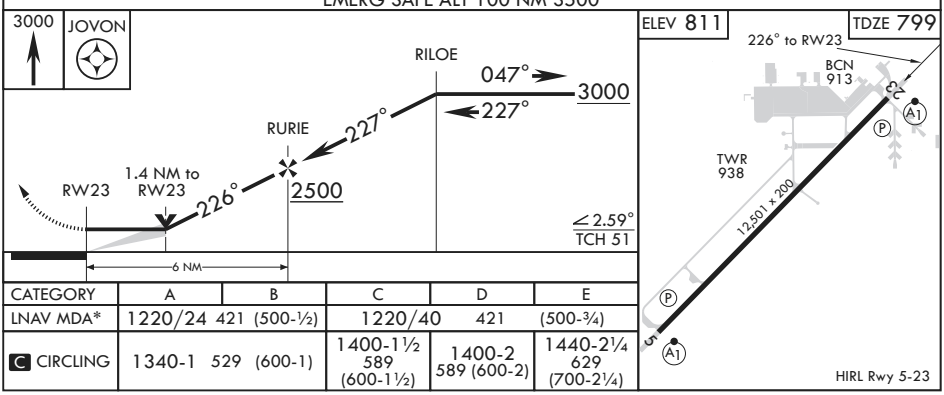
MISSED APPROACH: Climb to 3000 direct JOVON and hold.

ATIS	APP CON/DEP CON	TOWER	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 E 123.85 291.675 W	133.7 290.45	128.425 275.8	123.7 318.2

DME/DME RNP-0.3 NA

RNP APCH





CATEGORY	A	B	C	D	E
LNAV MDA*	1220/24 421 (500-½)		1220/40 421 (500-¾)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

PERU, INDIANA

TACAN or VOR RWY 5

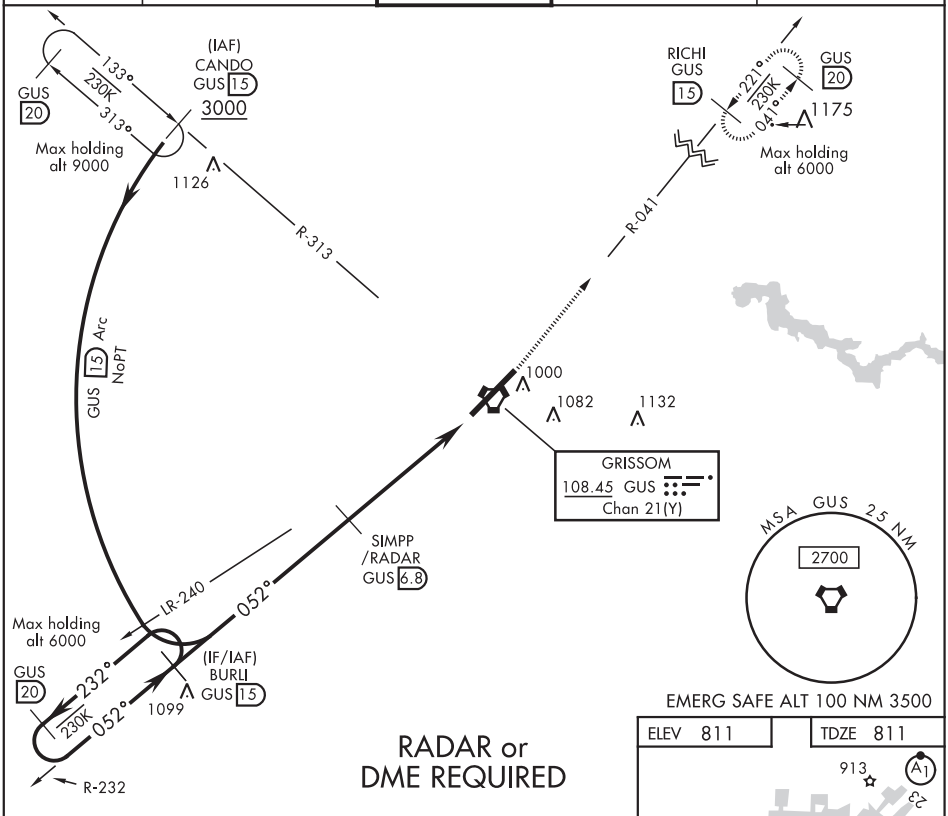
VORTAC GUS 108.45 Chan 21 (Y)	APCH CRS 052°	Rwy ldg 12,501 TDZE 811 Arpt Elev 811	AL-470 [USAF]	GRISSOM ARB (KGUS)

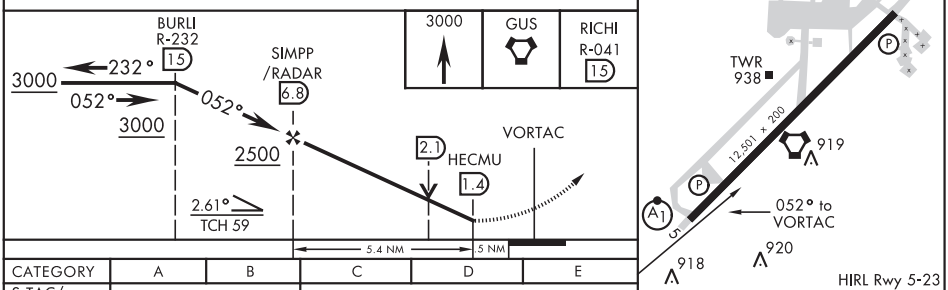
* When ALS inop, increase RVR to 55 and vis to 1 mile.

ALSF-1

MISSED APPROACH: Climb to 3000 on the GUS VORTAC R-041 to RICHI (GUS R-041/15 DME) and hold.

ATIS	GRISSOM APP CON	GRISSOM TOWER *	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 EAST 123.85 291.675 WEST	133.7 290.45	128.425 275.8	123.7 318.2





CATEGORY	A	B	C	D	E
S-TAC/ VOR 5 *	1180/24 369 (400-½)		1180/40 369 (400-¾)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

PERU, INDIANA 40°39′N-86°09′W GRISSOM ARB (KGUS)

Amdt 8 06DEC18

TACAN or VOR RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

18340

PERU, INDIANA

TACAN or VOR RWY 23

VORTAC GUS 108.45 Chan 21 (Y)	APCH CRS 221°	Rwy ldg 12,501 TDZE 799 Arpt Elev 811

AL-470 [USAF]

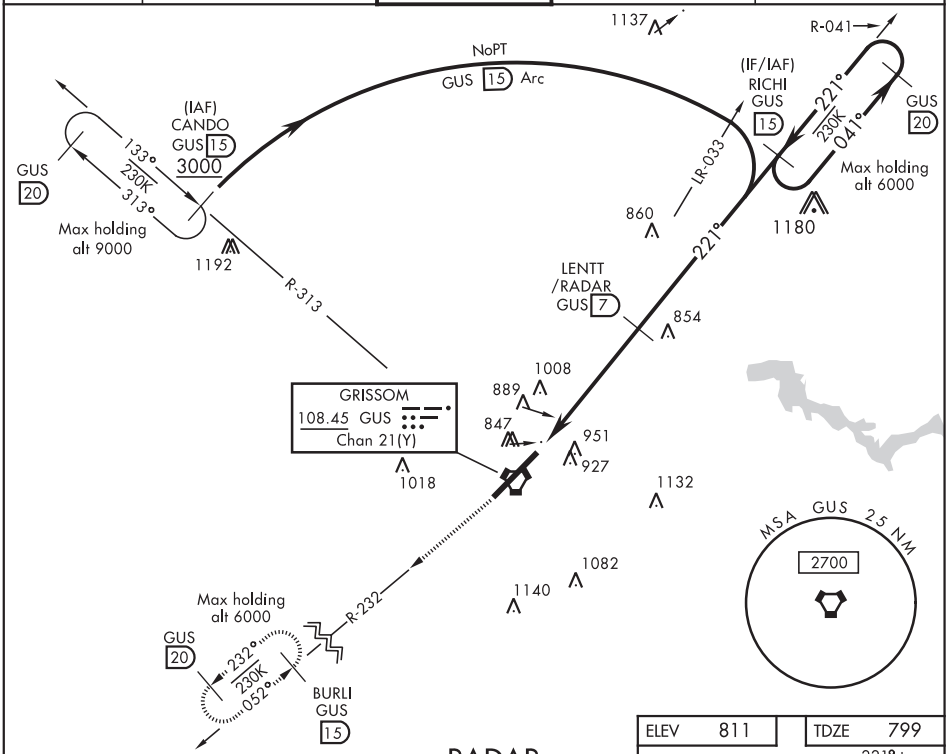
GRISSOM ARB (KGUS)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.

ALSF-1

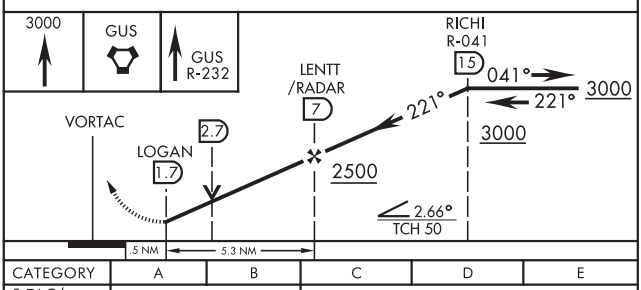
MISSED APPROACH: Climb to 3000 on the GUS VORTAC R-232 to BURLI (GUS R-232/15 DME) and hold.

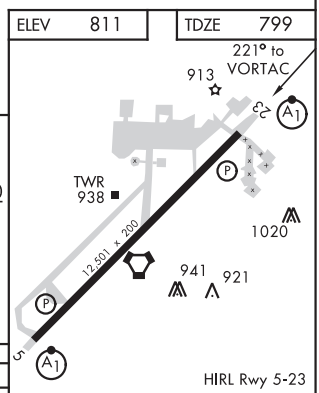
ATIS	GRISSOM APP CON	GRISSOM TOWER ★	GND CON	CLNC DEL
108.45 270.8	121.05 338.275 EAST 123.85 291.675 WEST	133.7 290.45	128.425 275.8	123.7 318.2



EMERG SAFE ALT 100 NM 3500

RADAR or DME REQUIRED





CATEGORY	A	B	C	D	E
S-TAC/ VOR 23 *	1260/24 461 (500-½)		1260/50 461 (500-1)		
C CIRCLING	1340-1 529 (600-1)		1400-1½ 589 (600-1½)	1400-2 589 (600-2)	1440-2¼ 629 (700-2¼)

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

PERU, INDIANA

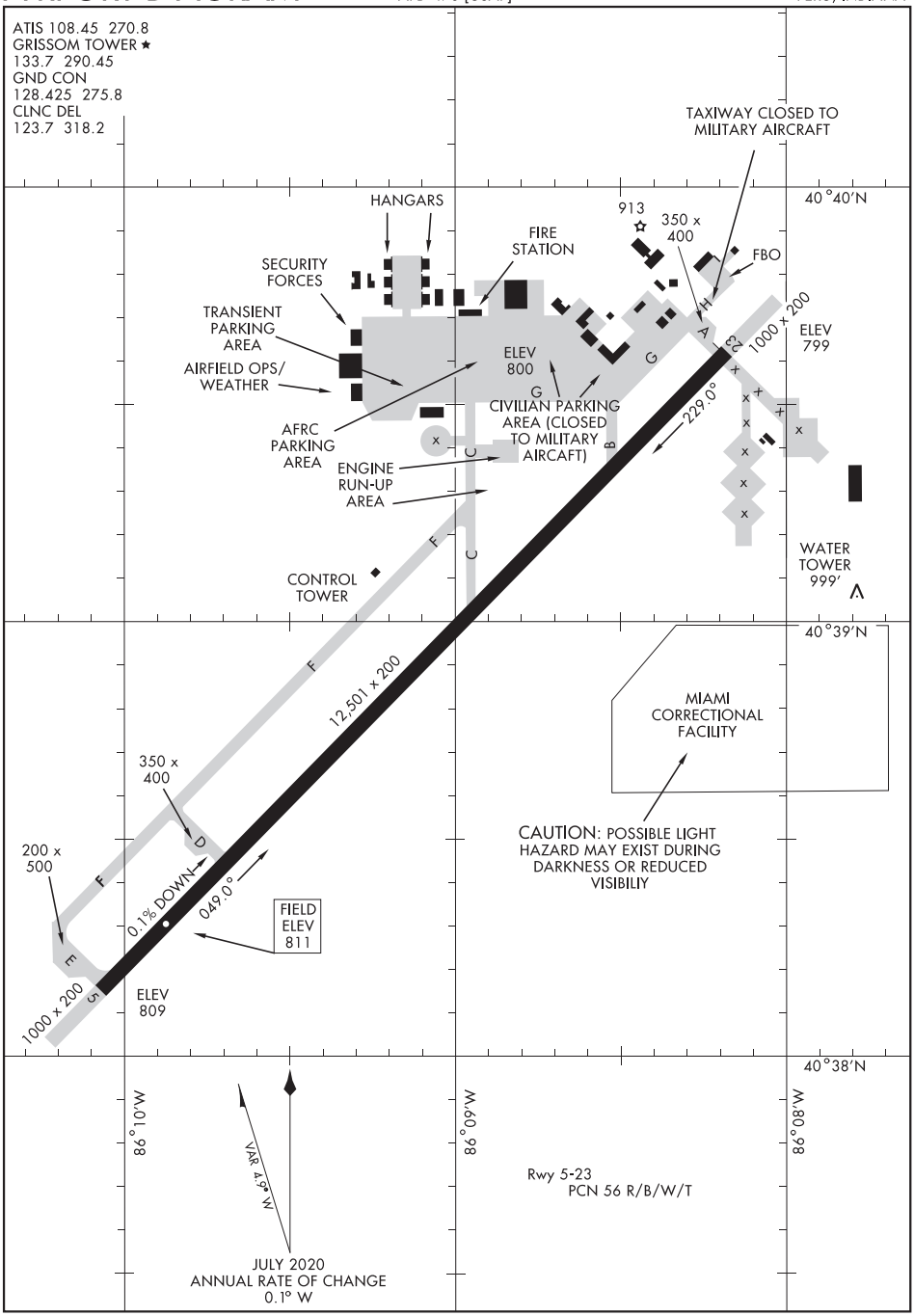
40°39′N-86°09′W

GRISSOM ARB (KGUS)

Amdt 6 06DEC18

TACAN or VOR RWY 23

EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

HAMILTON, OHIO | AL-5204 (FAA) | 20366

LOC/DME I-RQF	APP CRS	Rwy ldg	5500
109.75	295°	TDZE	619
Chan 34 (Y)		Apt Elev	633

ILS or LOC RWY 29
BUTLER COUNTY RGNL-HOGAN FIELD (HAO)

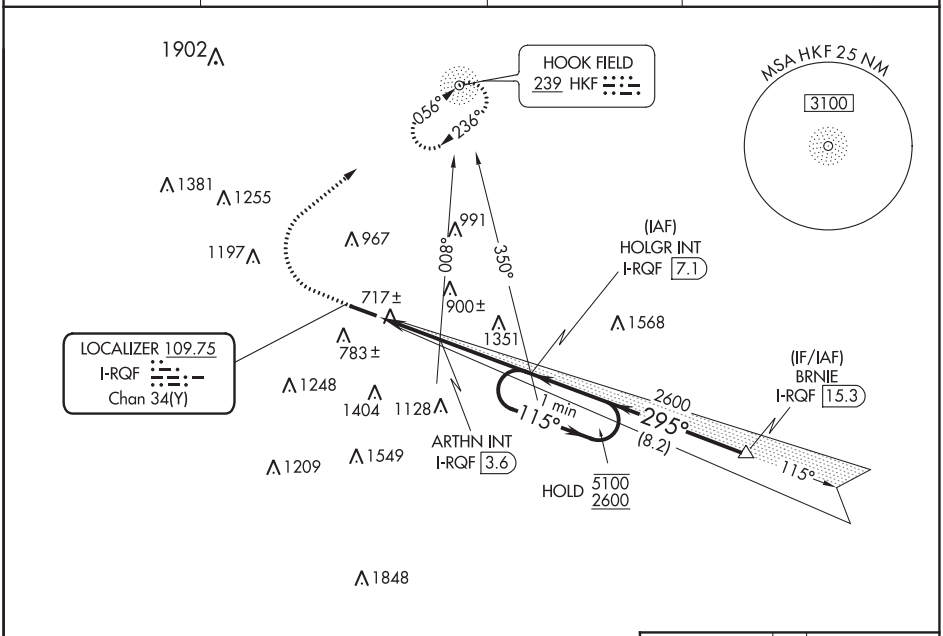
ADF required. DME required for LOC only.

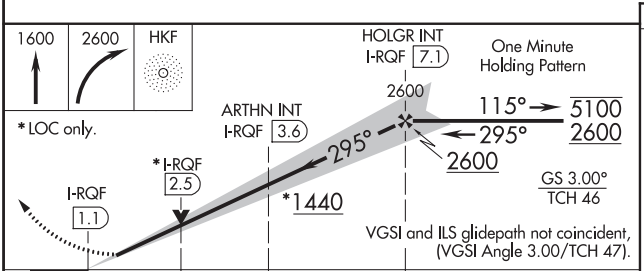
Inop table does not apply to S-ILS 29. For inop ALS, increase S-LOC-29 Cat C/D visibility to 2½ SM. ARTHN fix minimums: for inop ALS, increase S-LOC 29 Cat C/D visibility to 1⅜ SM.

MALS

MISSED APPROACH: Climb to 1600 then climbing right turn to 2600 direct HKF NDB and hold.

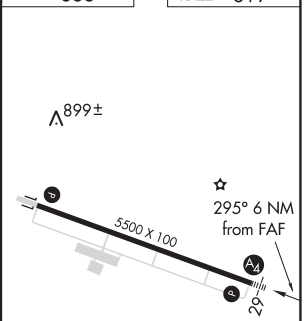
ASOS	CINCINNATI APP CON	CLNC DEL	UNICOM
121.425	121.0 254.25	126.25	123.05 (CTAF)





CATEGORY	A	B	C	D
S-ILS 29	819-¾ 200 (200-¾)			
S-LOC 29	1440-¾ 821 (900-¾)	1440-1 821 (900-1)	1440-2 821 (900-2)	
C CIRCLING	1440-1 807 (900-1)		1440-2½ 807 (900-2½)	1760-3 1127 (1200-3)
	ARTHN FIX MINIMUMS			
S-LOC 29	1120-¾ 501 (500-¾)		1120-1¼ 501 (500-1¼)	
C CIRCLING	1160-1 527 (600-1)	1260-1 627 (700-1)	1300-1¾ 667 (700-1¾)	1760-3 1127 (1200-3)

ELEV 633 | TDZE 619



MIRL Rwy 11-29
REIL Rwys 11 and 29

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 56600 W11A	APP CRS 115°	Rwy ldg 5500 TDZE 632 Apt Elev 633

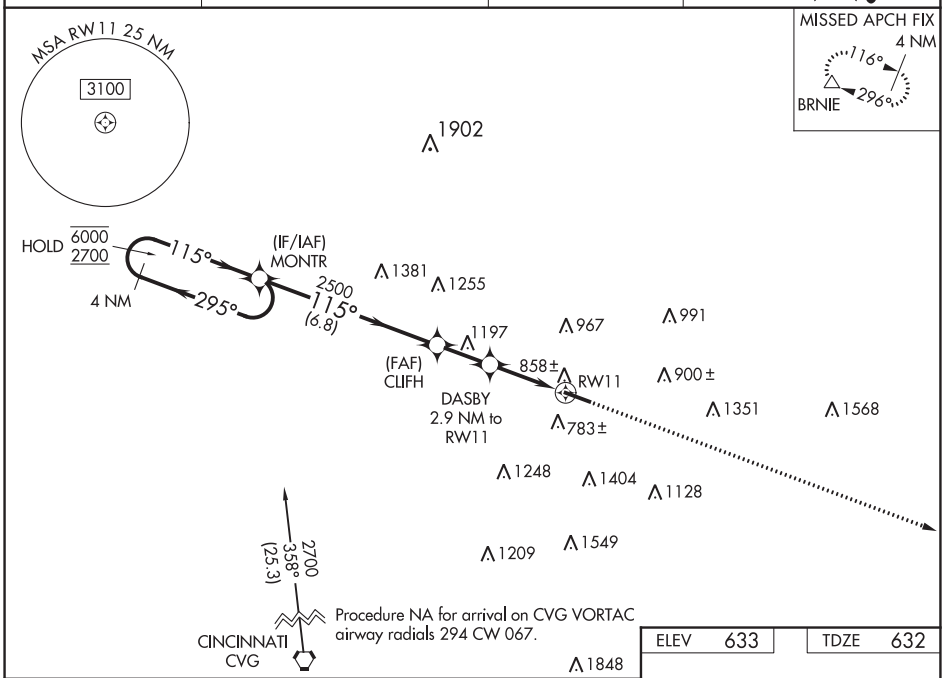
RNAV (GPS) RWY 11
BUTLER COUNTY RGNL-HOGAN FIELD (HAO)

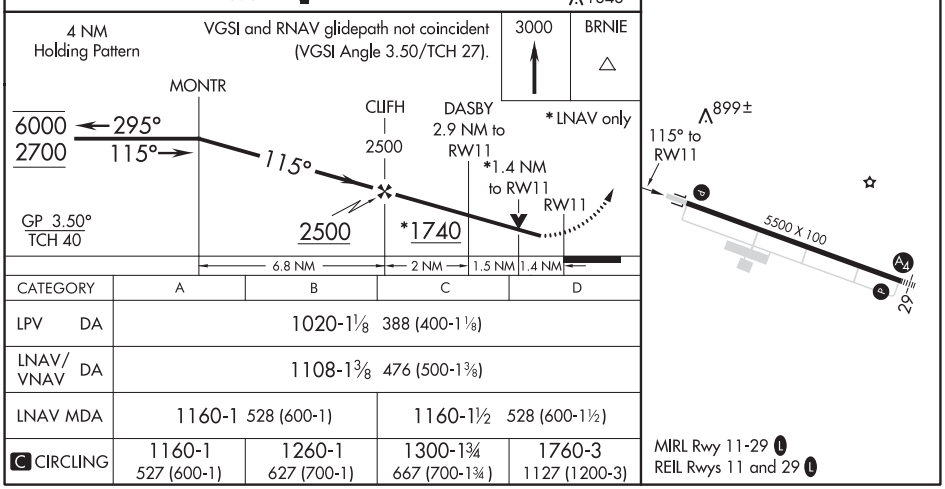
RNP APCH.

Rwy 11 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

MISSED APPROACH: Climb to 3000 direct BRNIE and hold.

ASOS	CINCINNATI APP CON	CLNC DEL	UNICOM
121.425	121.0 254.25	126.25	123.05 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1020-1⅛ 388 (400-1⅛)			
LNAV/VNAV DA	1108-1⅜ 476 (500-1⅜)			
LNAV MDA	1160-1 528 (600-1)		1160-1½ 528 (600-1½)	
C CIRCLING	1160-1 527 (600-1)	1260-1 627 (700-1)	1300-1¾ 667 (700-1¾)	1760-3 1127 (1200-3)

MIRL Rwy 11-29 L
REIL Rwys 11 and 29 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

HAMILTON, OHIO | AL-5204 (FAA) | 20366

WAAS CH 61300 W29A	APP CRS 295°	Rwy ldg 5500 TDZE 619 Apt Elev 633

RNAV (GPS) RWY 29
BUTLER COUNTY RGNL-HOGAN FIELD (HAO)

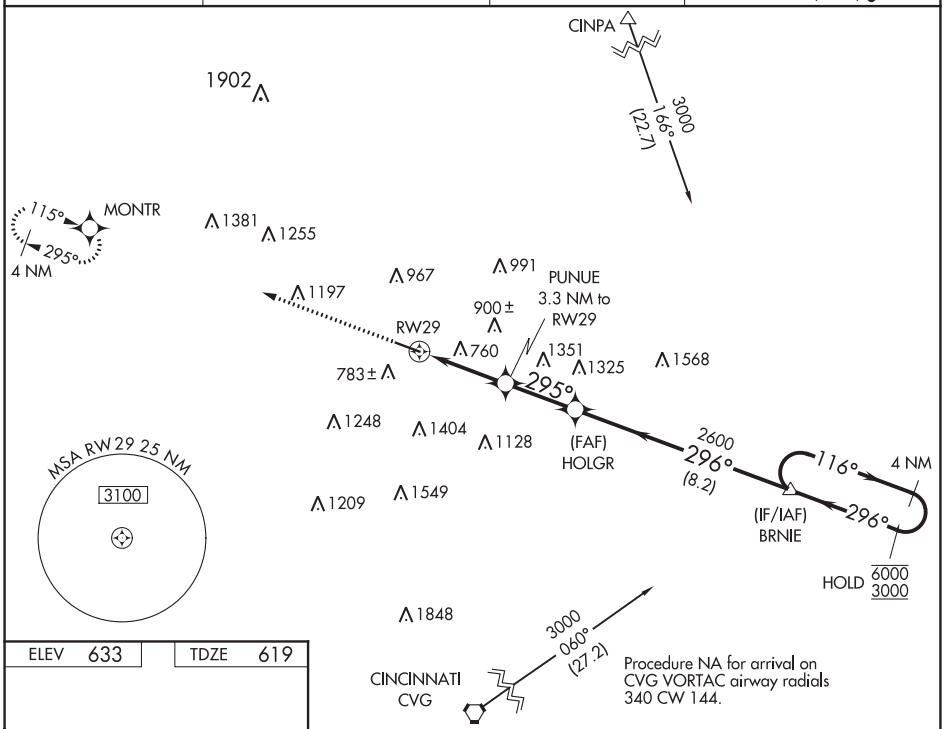
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.
For inop ALS, increase LNAV/VNAV visibility to 1⅜ SM all Cats.

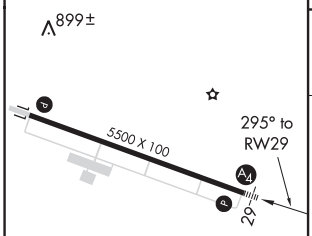
MALS

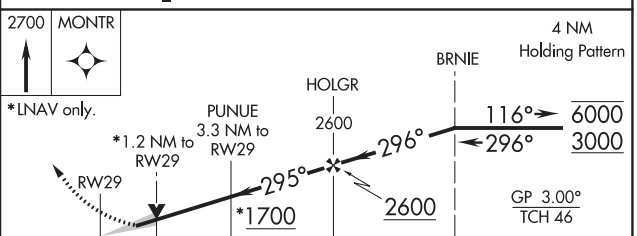
MISSED APPROACH: Climb to 2700 direct MONTR and hold.

ASOS	CINCINNATI APP CON	CLNC DEL	UNICOM
121.425	121.0 254.25	126.25	123.05 (CTAF) L



ELEV 633	TDZE 619





CATEGORY	A	B	C	D
LPV DA	944-¾ 325 (400-¾)			
LNAV/VNAV DA	1128-1¼ 509 (500-1¼)			
LNAV MDA	1140-¾ 521 (600-¾)		1140-1¼ 521 (600-1¼)	
C CIRCLING	1160-1 527 (600-1)	1260-1 627 (700-1)	1300-1¾ 667 (700-1¾)	1760-3 1127 (1200-3)

MIRL Rwy 11-29 L
REIL Rwys 11 and 29 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	2589
185°	TDZE	584
	Apt Elev	584

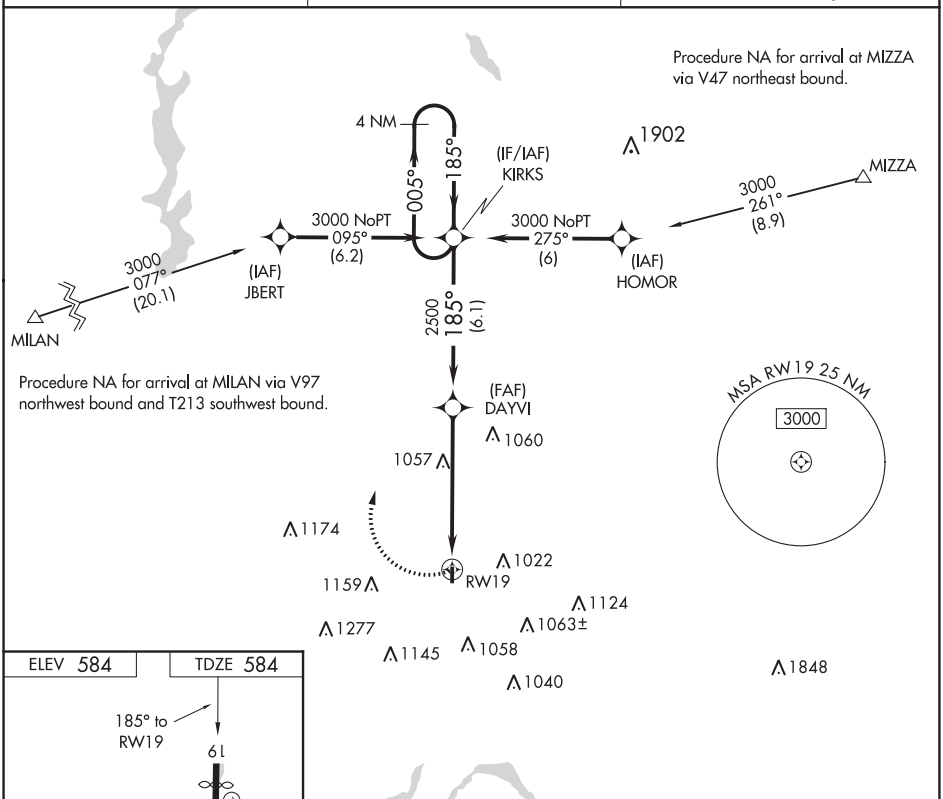
RNAV (GPS) RWY 19
CINCINNATI WEST (I67)

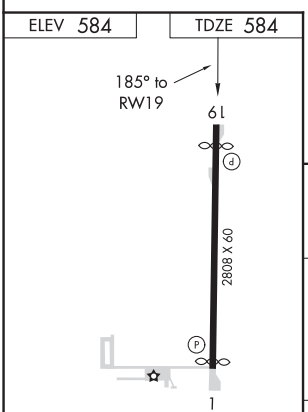
T NA

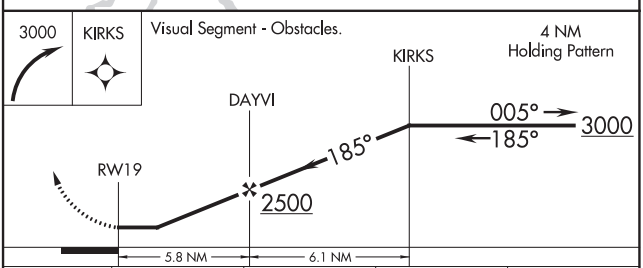
DME/DME RNP-0.3 NA. Rwy 1, 19 helicopter visibility reduction below 1 SM NA. Use Butler Co Rgnl-Hogan Field altimeter setting, when not received, use Cincinnati/Northern Kentucky Intl altimeter setting and increase all MDA 40 feet. Procedure NA at night.

MISSED APPROACH: Climbing right turn 3000 direct KIRKS and hold.

AWOS-3PT	CINCINNATI APP CON	UNICOM
118.15	128.7 254.25	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1380-1 796 (800-1)	1380-1¼ 796 (800-1¼)	NA	
CIRCLING	1380-1 796 (800-1)	1380-1¼ 796 (800-1¼)	NA	

MIRL Rwy 1-19 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

HARRISON, OHIO | AL-6433 (FAA) | 20254

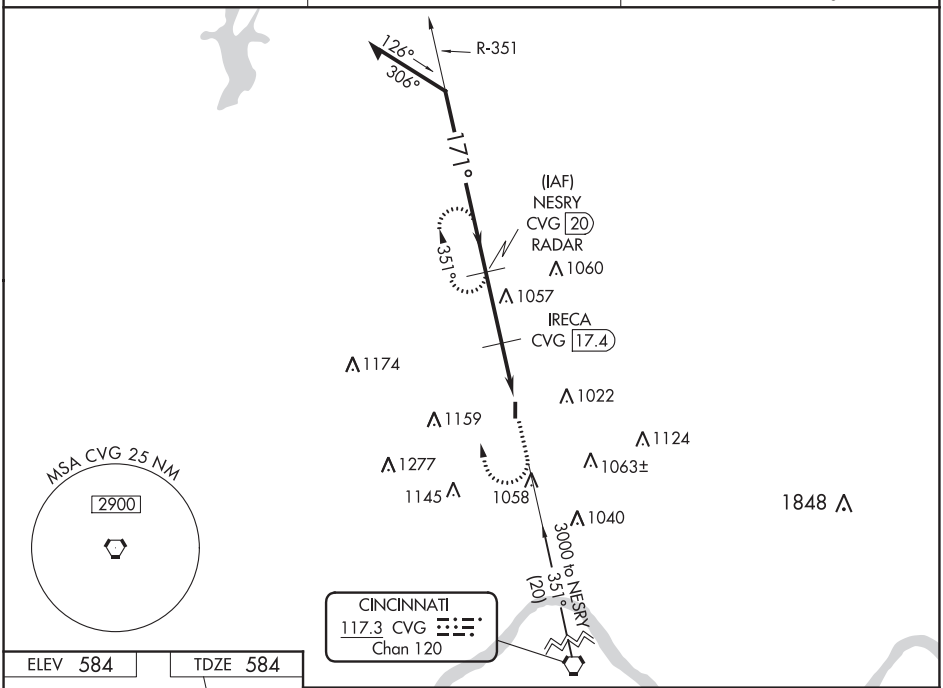
VOR RWY 19
CINCINNATI WEST (I67)

VORTAC CVG	APP CRS	Rwy ldg	2589
117.3	171°	TDZE	584
Chan 120		Apt Elev	584

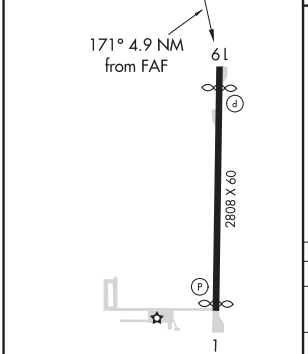
T A NA — DME or RADAR required. Use Butler Co Rgnl-Hogan Field altimeter setting, when not received, use Cincinnati/Northern Kentucky Intl altimeter setting and increase all MDA 40 feet, and S-19 Cat A visibility ¼ mile. Procedure NA at night. Rwy 1, 19 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000, then climbing right turn to 2600 via CVG VORTAC R-351 to NESRY/ CVG 20 DME/RADAR and hold.

AWOS-3PT	CINCINNATI APP CON	UNICOM
118.15	128.7 254.25	123.0 (CTAF) L

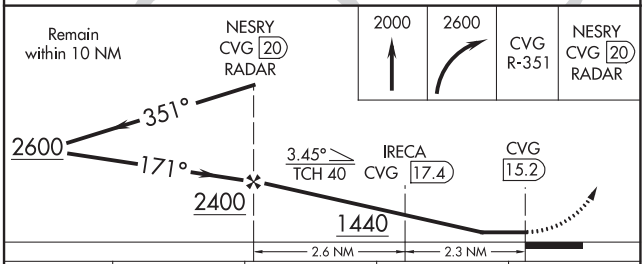


ELEV 584 | TDZE 584



MIRL Rwy 1-19 L

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



CATEGORY	A	B	C	D
S-19	1440-1 856 (900-1)	1440-1¼ 856 (900-1¼)	NA	
CIRCLING	1440-1 856 (900-1)	1440-1¼ 856 (900-1¼)	NA	
IRECA FIX MINIMUMS				
S-19	1340-1 756 (800-1)	1340-1¼ 756 (800-1¼)	NA	
CIRCLING	1340-1 756 (800-1)	1340-1¼ 756 (800-1¼)	NA	

HARRISON, OHIO
Amdt 4A 18AUG16

39°16′N-84°46′W

CINCINNATI WEST (I67)
VOR RWY 19

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

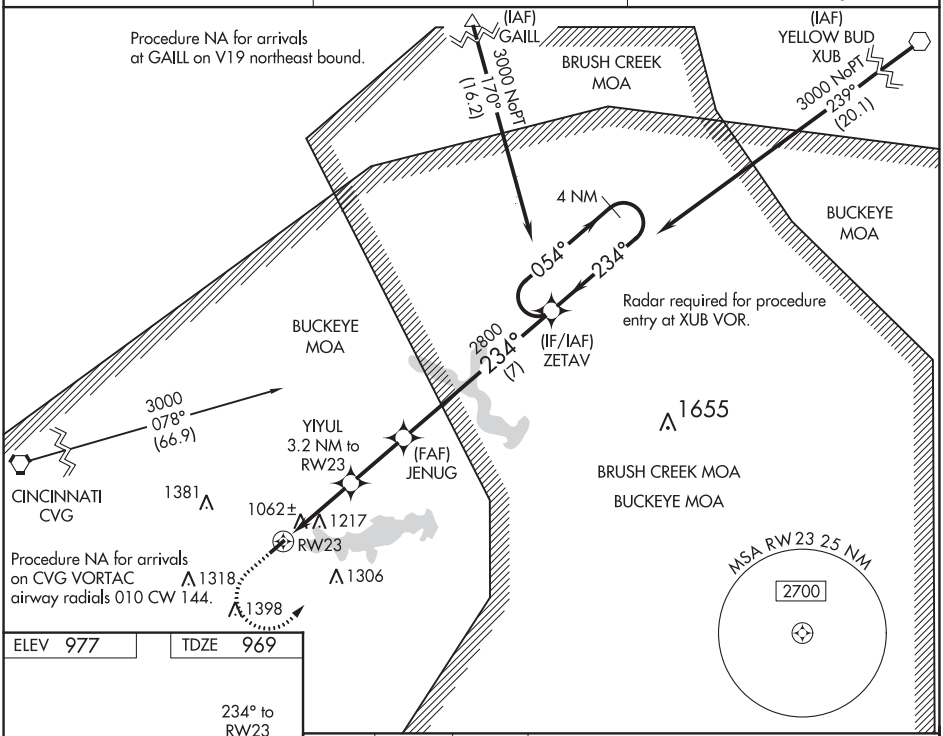
WAAS CH 97630 W23A	APP CRS 234°	Rwy ldg 3520 TDZE 969 Apt Elev 977

RNAV (GPS) RWY 23
HIGHLAND COUNTY (HOC)

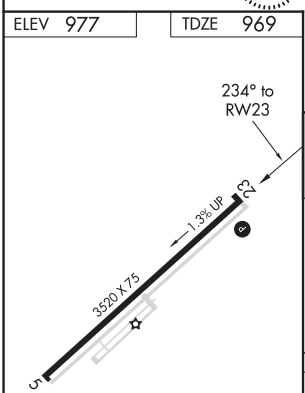
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wilmington Air Park altimeter setting and increase all MDA 60 feet, increase LNAV Cat C,D visibility ⅛ mile, increase LP Cat C,D visibility ¼ mile, and increase Circling Cat C visibility ⅛ mile. When VGSI inop, Straight-in/Circling Rwy 23 procedure NA at night. Circling to Rwy 05 NA at night.

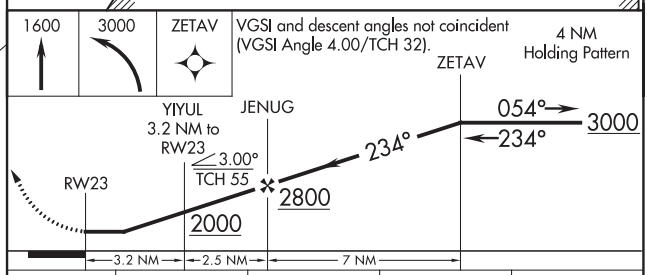
MISSED APPROACH: Climb to 1600 then climbing left turn to 3000 direct ZETAV and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.175	135.575 290.5	123.05 (CTAF) L



ELEV 977	TDZE 969





CATEGORY	A	B	C	D
LP MDA	1320-1 351 (400-1)		1320-1⅛ 351 (400-1⅛)	
LNAV MDA	1480-1 511 (600-1)		1480-1⅝ 511 (600-1⅝)	
CIRCLING	1500-1 523 (600-1)	1520-1 543 (600-1)	1520-1⅝ 543 (600-1⅝)	1540-2 563 (600-2)

REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

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EC-2, 25 FEB 2021 to 22 APR 2021

HUNTINGBURG, INDIANA AL-5378 (FAA) 19115

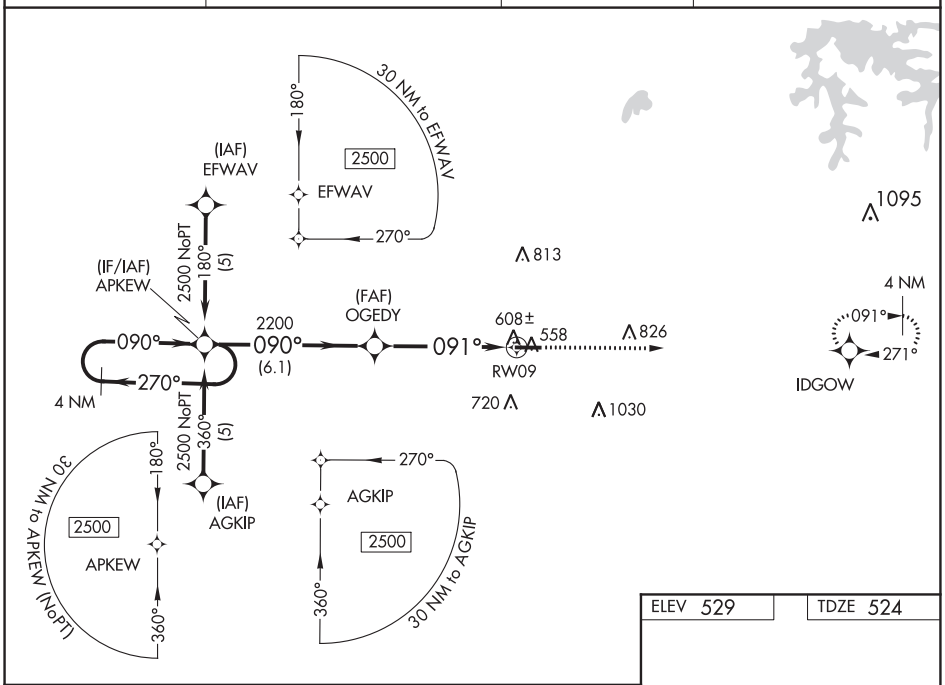
WAAS CH 49207 W09A	APP CRS 091°	Rwy ldg 5000 TDZE 524 Apt Elev 529

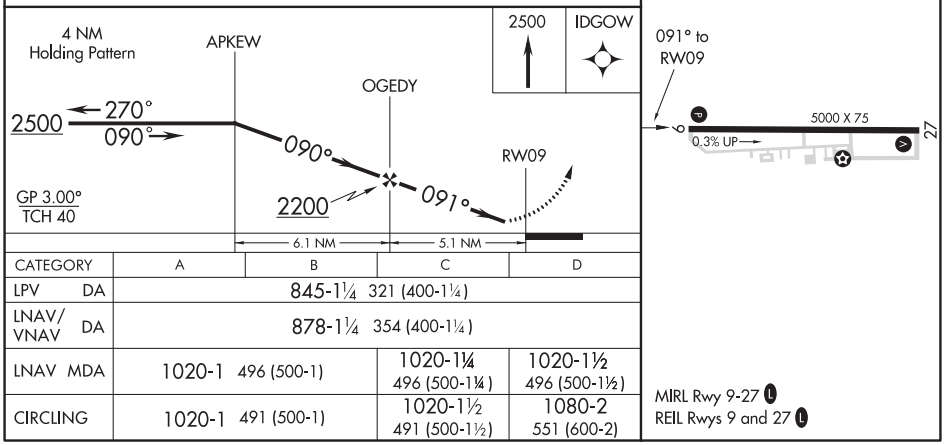
RNAV (GPS) RWY 9
HUNTINGBURG (HNB)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Evansville altimeter setting.
When local altimeter setting not received, use Evansville altimeter setting and increase all DA 85 feet and all MDA 100 feet, increase LPV and LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct IDGOW and hold.

AWOS-3PT	EVANSVILLE APP CON ★	CLNC DEL	UNICOM
118.250	124.025 290.9	118.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	845-1¼ 321 (400-1¼)			
LNAV/VNAV DA	878-1¼ 354 (400-1¼)			
LNAV MDA	1020-1 496 (500-1)		1020-1¼ 496 (500-1¼)	1020-1½ 496 (500-1½)
CIRCLING	1020-1 491 (500-1)		1020-1½ 491 (500-1½)	1080-2 551 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

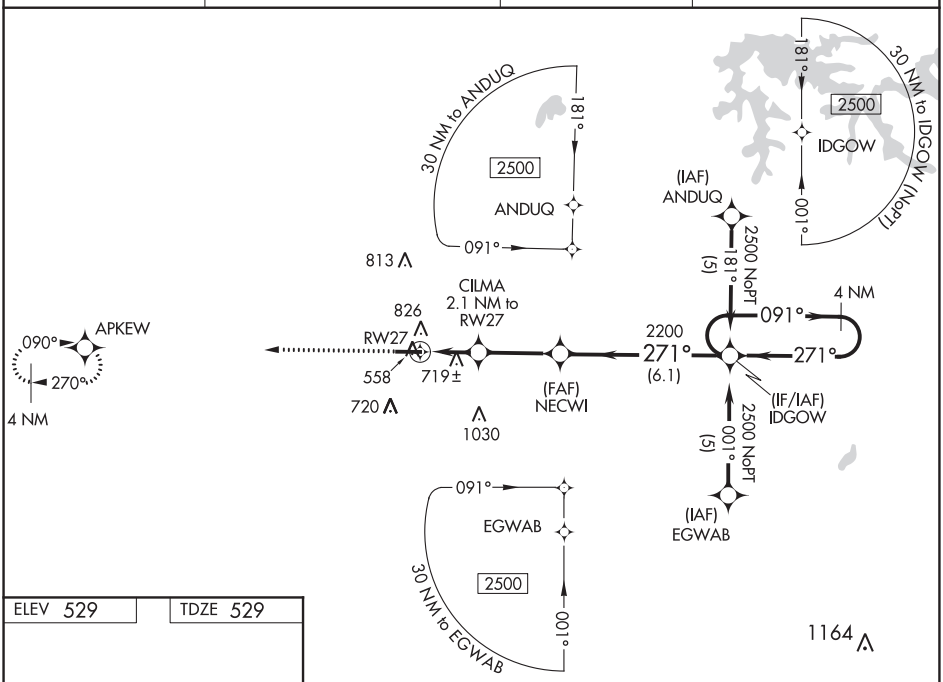
WAAS CH 86815 W27A	APP CRS 271°	Rwy ldg 5000 TDZE 529 Apt Elev 529

RNAV (GPS) RWY 27
HUNTINGBURG (HNB)

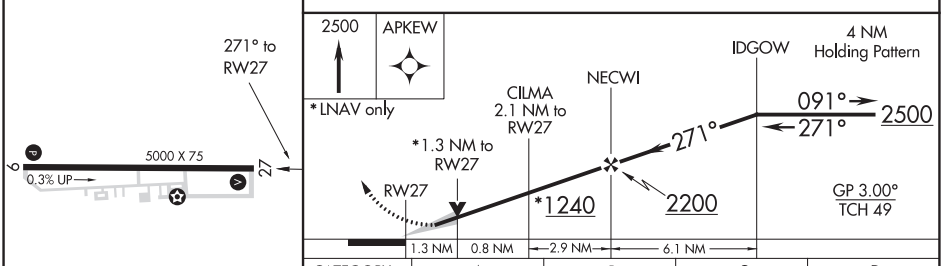
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.
VDP and Baro-VNAV NA when using Evansville altimeter setting.
When local altimeter setting not received, use Evansville altimeter setting and increase all DA 85 feet and all MDA 100 feet, increase LPV and LNAV/VNAV all Cats and LNAV Cats C and D visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct APKEW and hold.

AWOS-3PT	EVANSVILLE APP CON ★	CLNC DEL	UNICOM
118.250	124.025 290.9	118.8	122.8 (CTAF) L



ELEV 529	TDZE 529



CATEGORY	A	B	C	D
LPV DA	812-1 283 (300-1)			
LNAV/VNAV DA	1038-1¾ 509 (600-1¾)			
LNAV MDA	980-1 451 (500-1)		980-1¼ 451 (500-1¼)	980-1½ 451 (500-1½)
CIRCLING	1000-1 471 (500-1)	1020-1 491 (500-1)	1020-1½ 491 (500-1½)	1080-2 551 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

HUNTINGTON, INDIANA

AL-5767 (FAA)

20142

RNAV (GPS) RWY 9
HUNTINGTON MUNI (HHG)

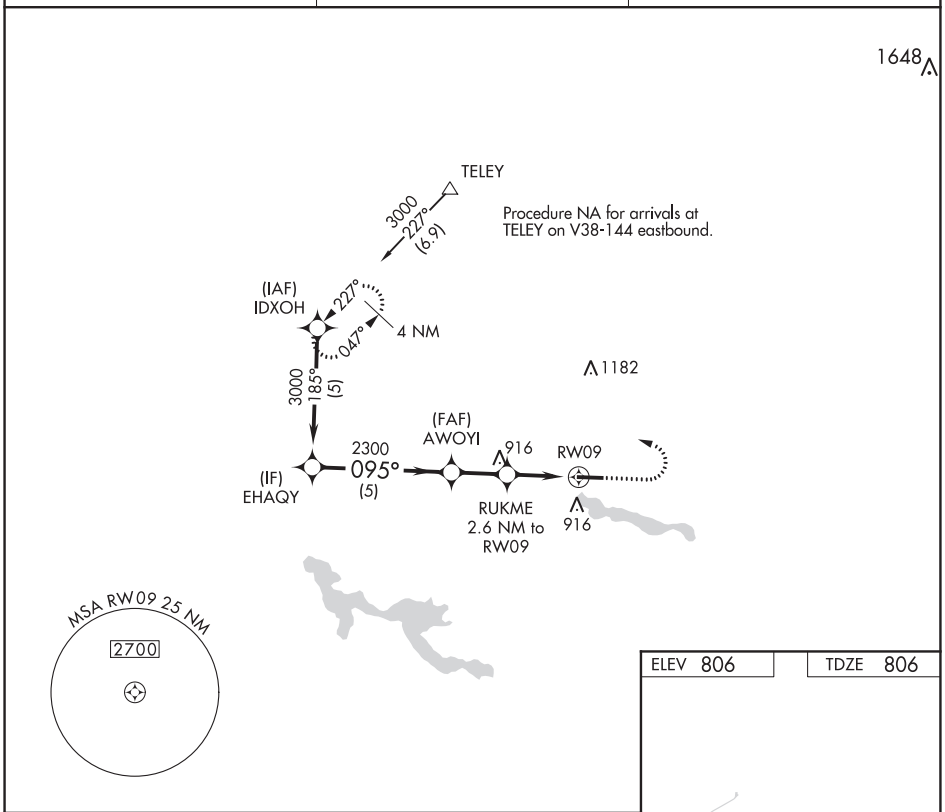
APP CRS	Rwy ldg	5003
095°	TDZE	806
	Apt Elev	806

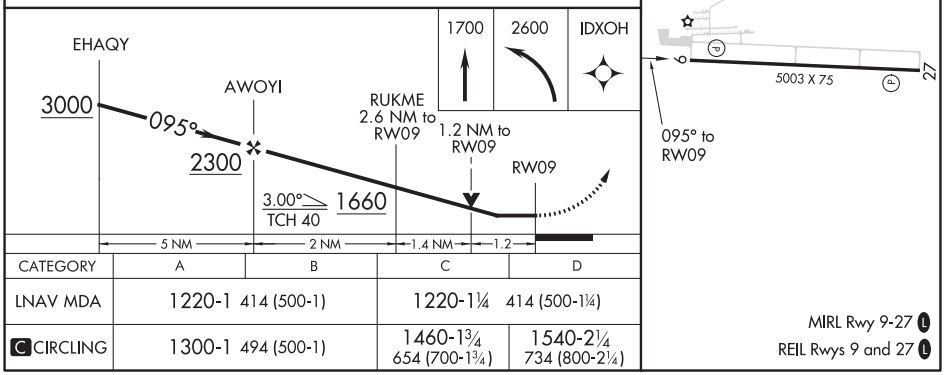
RNP APCH.

Rwy 9 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 1700 then climbing left turn to 2600 direct IDXOH and hold.

AWOS-3PT	FORT WAYNE APP CON	UNICOM
126.575	127.2 284.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1220-1 414 (500-1)		1220-1¼ 414 (500-1¼)	
C CIRCLING	1300-1 494 (500-1)		1460-1¾ 654 (700-1¾)	1540-2¼ 734 (800-2¼)

MIRL Rwy 9-27 L

REIL Rwys 9 and 27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 27
HUNTINGTON MUNI (HHG)

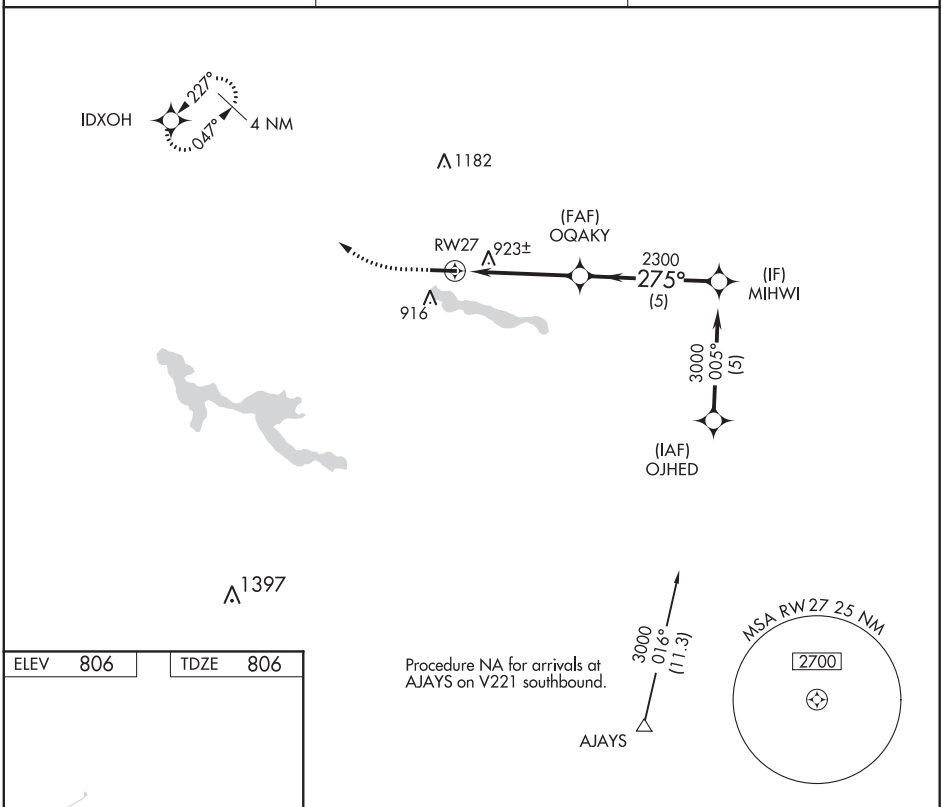
APP CRS	Rwy ldg	5003
275°	TDZE	806
	Apt Elev	806

RNP APCH.

Rwy 27 helicopter visibility reduction below ¾ SM NA.

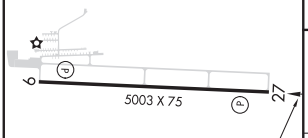
MISSED APPROACH: Climb to 1700 then climbing right turn to 2600 direct IDXOH and hold.

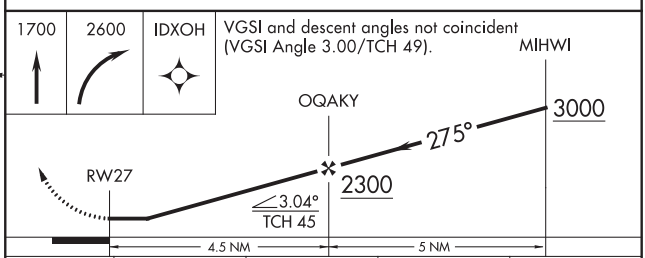
AWOS-3PT	FORT WAYNE APP CON	UNICOM
126.575	127.2 284.6	122.8 (CTAF) L



Procedure NA for arrivals at AJAYS on V221 southbound.

ELEV	806	TDZE	806





CATEGORY	A	B	C	D
LNAV MDA	1200-1 394 (400-1)		1200-1⅛ 394 (400-1⅛)	1200-1¼ 394 (400-1¼)
C CIRCLING	1300-1 494 (500-1)		1460-1¾ 654 (700-1¾)	1540-2¼ 734 (800-2¼)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

HUNTINGTON, INDIANA | AL-5767 (FAA) | 20254

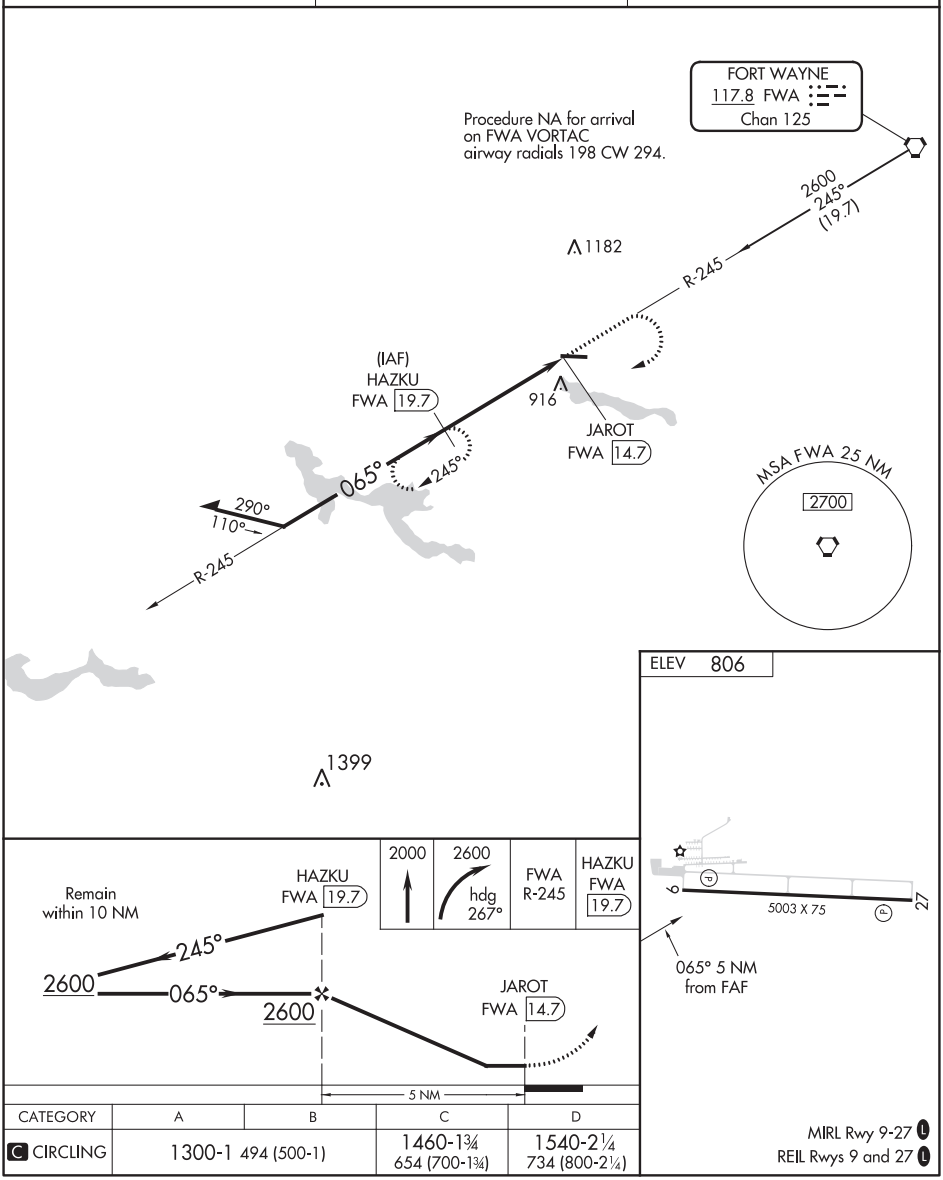
VORTAC FWA 117.8 Chan 125	APP CRS 065°	Rwy ldg N/A TDZE N/A Apt Elev 806

VOR-A
HUNTINGTON MUNI (HHG)

DME required.

MISSED APPROACH: Climb to 2000 then climbing right turn to 2600 on heading 267° and on FWA VORTAC R-245 to HAZKU/19.7 DME and hold.

AWOS-3PT	FORT WAYNE APP CON	UNICOM
126.575	127.2 284.6	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1300-1 494 (500-1)		1460-1¾ 654 (700-1¾)	1540-2¼ 734 (800-2¼)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82509 W21A	APP CRS 211°	Rwy ldg 4200 TDZE 823 Apt Elev 823

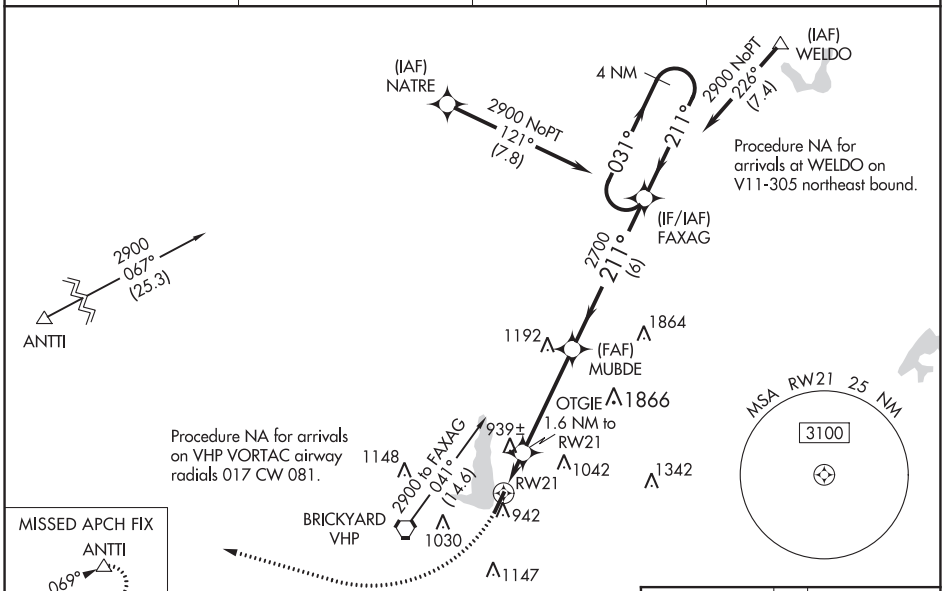
RNAV (GPS) RWY 21
EAGLE CREEK AIRPARK (EYE)

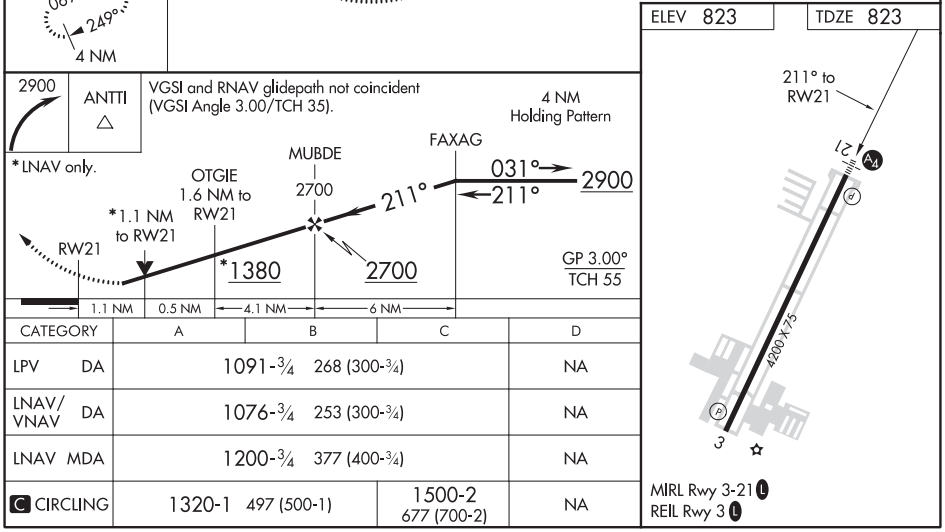
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 0°C (32°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inoperative MALS, increase LPV visibility all Cats to ⅞ mile. Inoperative table does not apply to LNAV/VNAV. Helicopter visibility reduction below ¾ SM NA.

MALS

MISSED APPROACH: Climbing right turn to 2900 direct ANTTI and hold.

ASOS	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
121.575	119.05 317.8	128.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1091-¾ 268 (300-¾)			NA
LNAV/VNAV DA	1076-¾ 253 (300-¾)			NA
LNAV MDA	1200-¾ 377 (400-¾)			NA
C CIRCLING	1320-1 497 (500-1)		1500-2 677 (700-2)	NA

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LOC I-EYE	APP CRS	Rwy ldg	4200
111.5	211°	TDZE	823
		Apt Elev	823

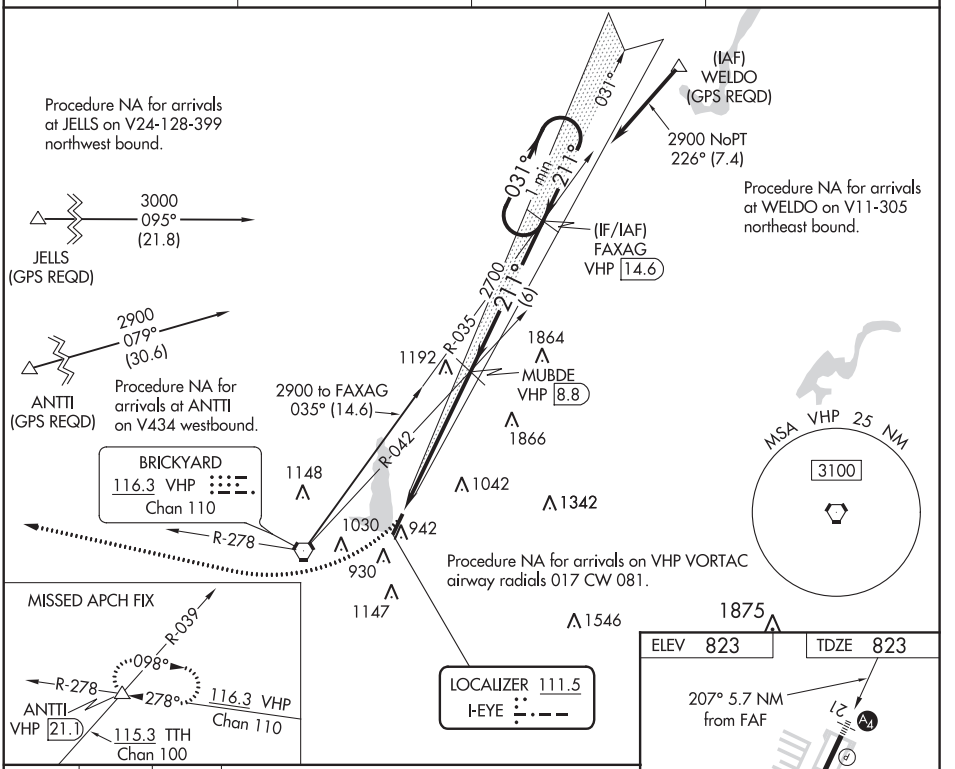
LOC RWY 21
EAGLE CREEK AIRPARK (EYE)

T A NA Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 20 feet. DME required. For inoperative MALS, increase Cat C visibility to 1⅜ mile.

MALS A4

MISSED APPROACH: Climbing right turn to 2900 on heading 270° and VHP R-278 to ANTTI INT/VHP 21.1 DME and hold.

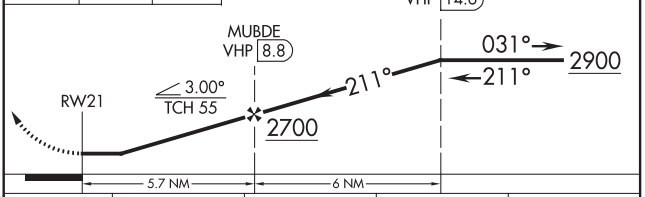
ASOS	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
121.575	119.05 317.8	128.6	122.8 (CTAF) L



2900 hdg 270°	VHP R-278	ANTTI VHP 21.1

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 35).

One Minute Holding Pattern



CATEGORY	A	B	C	D
S-21	1340-¾	517 (600-¾)	1340-1¼ 517 (600-1¼)	NA
C CIRCLING	1340-1	517 (600-1)	1500-2 677 (700-2)	NA

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

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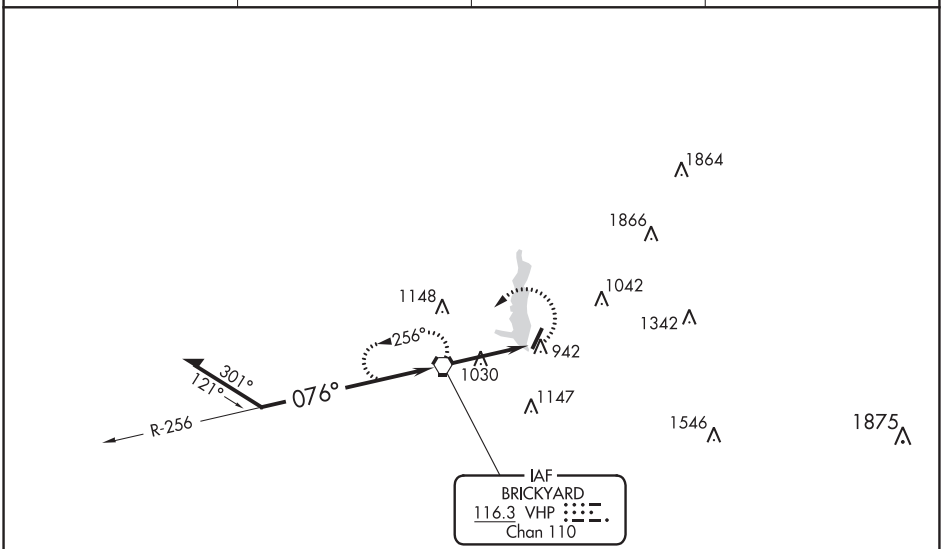
VORTAC VHP	APP CRS	Rwy ldg	N/A
116.3	076°	TDZE	N/A
Chan 110		Apt Elev	823

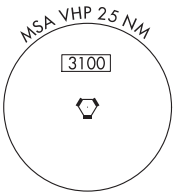
VOR-A
EAGLE CREEK AIRPARK (EYE)

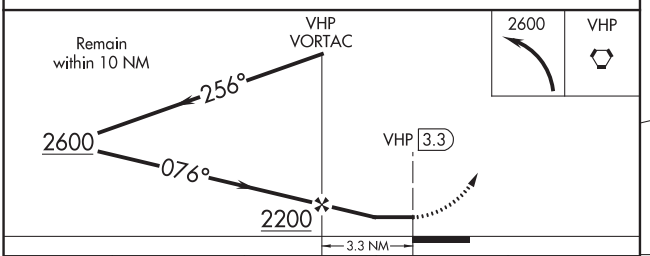
When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 20 feet.

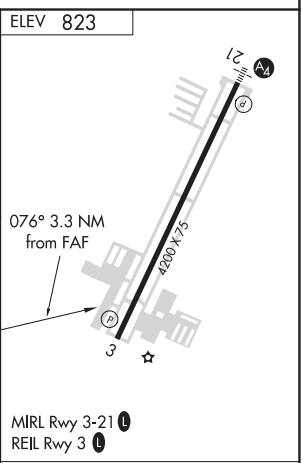
MISSED APPROACH: Climbing left turn to 2600 direct VHP VORTAC and hold.

ASOS	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
121.575	119.05 317.8	128.6	122.8 (CTAF) L









CATEGORY	A	B	C	D
C CIRCLING	1320-1 497 (500-1)		1500-2 677 (700-2)	NA

FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

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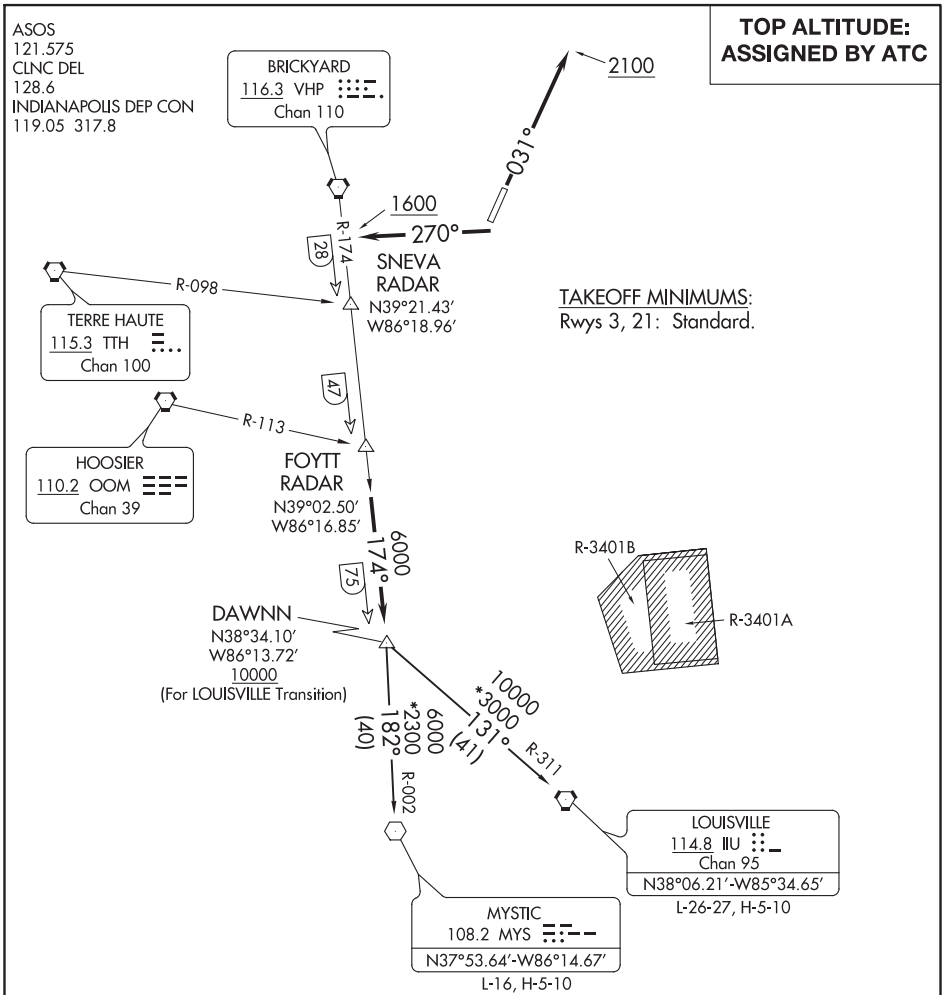
(DAWNN1.DAWNN) 20086

DAWNN ONE DEPARTURE

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)
INDIANAPOLIS, INDIANA



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3: Climb heading 031° to 2100, then on assigned heading to assigned altitude. Thence....
TAKEOFF RWY 21: Climb heading 270° to 1600, then on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

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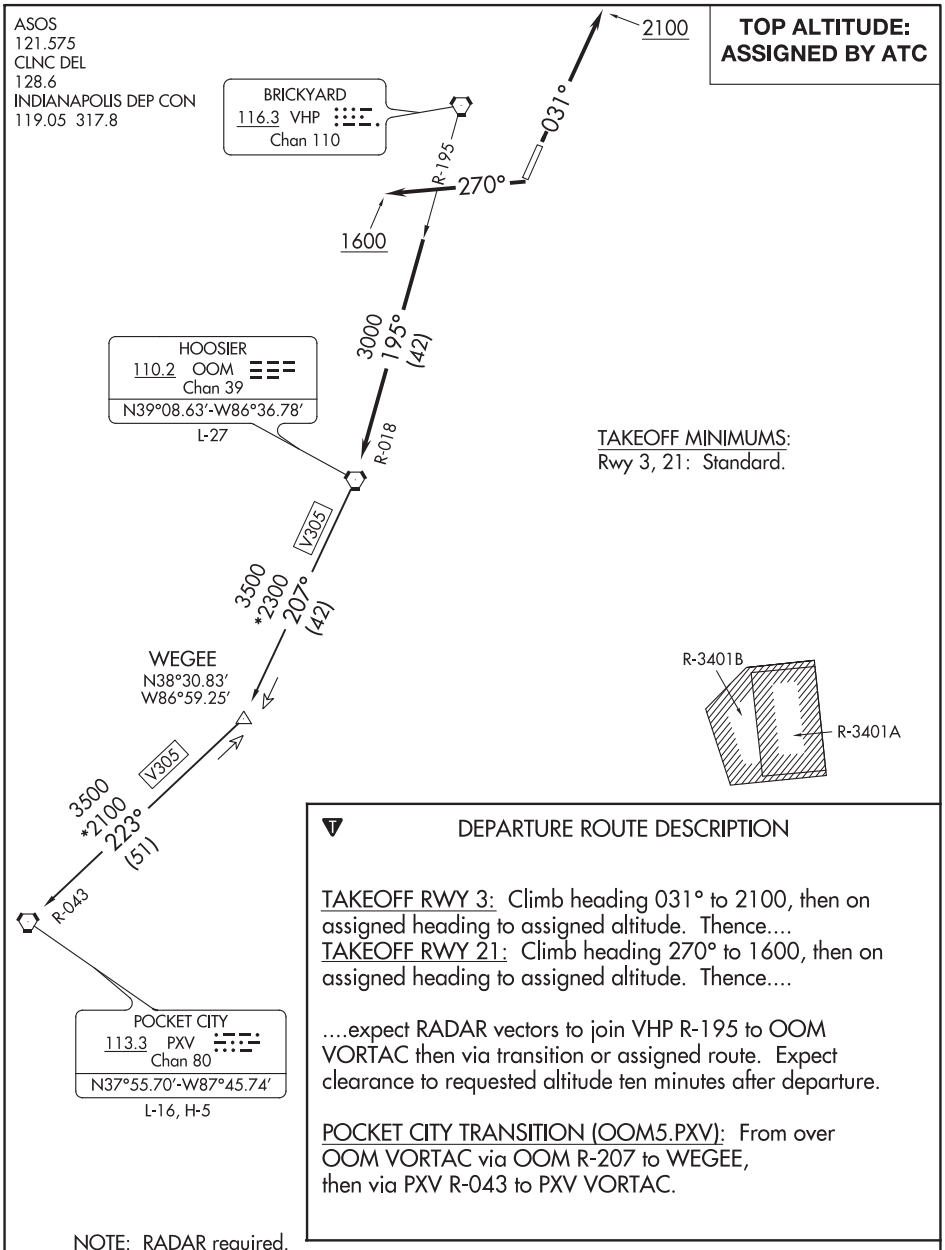
(OOM5.OOM) 20086

HOOSIER FIVE DEPARTURE

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)
INDIANAPOLIS, INDIANA



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3: Climb heading 031° to 2100, then on assigned heading to assigned altitude. Thence....
TAKEOFF RWY 21: Climb heading 270° to 1600, then on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.

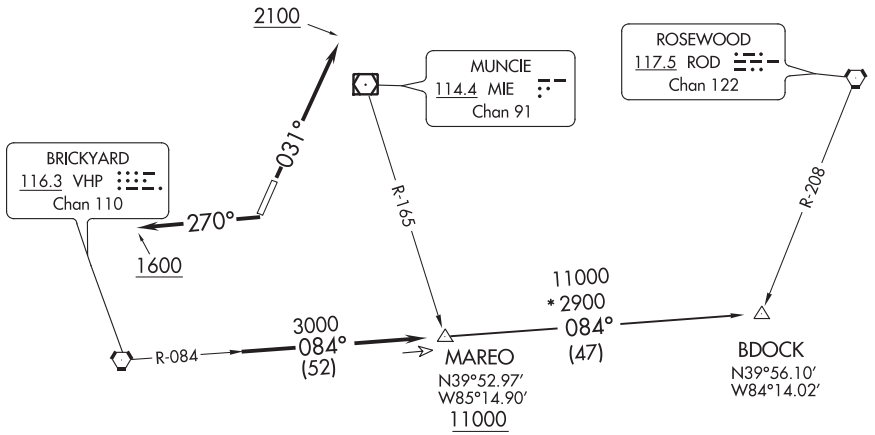
NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

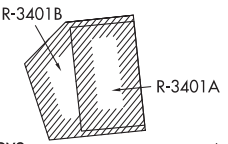
ASOS
121.575
CLNC DEL
128.6
INDIANAPOLIS DEP CON
119.05 317.8

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 3, 21: Standard.



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3: Climb heading 031° to 2100, then on assigned heading to assigned altitude. Thence....
TAKEOFF RWY 21: Climb heading 270° to 1600, then on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

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(MEARZ6.MEARZ) 20086

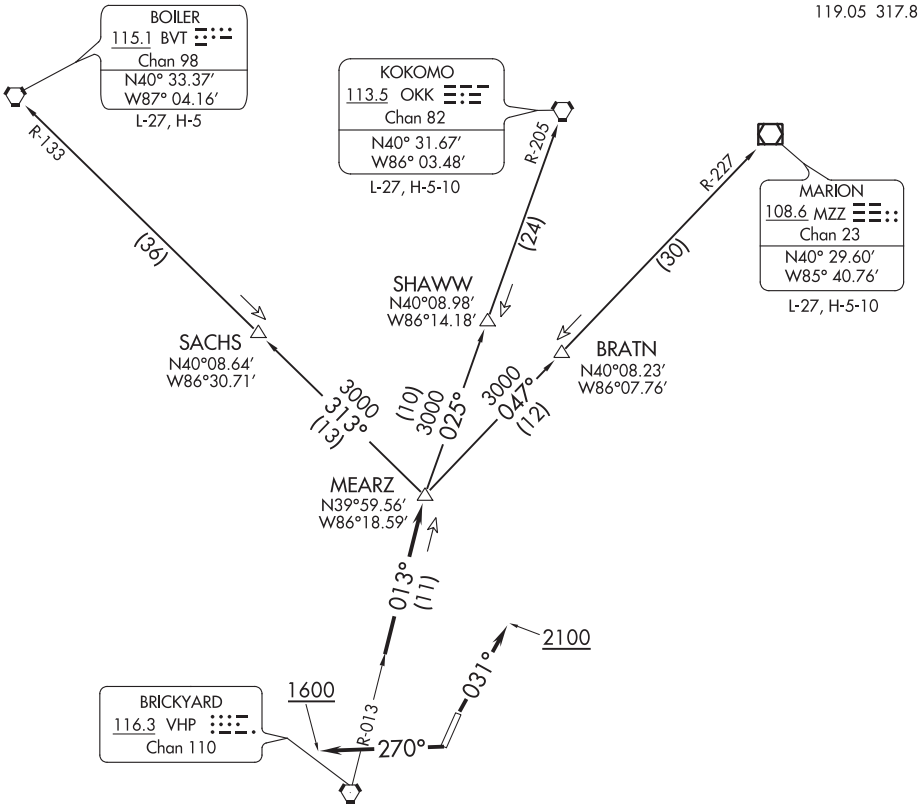
MEARZ SIX DEPARTURE

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)
INDIANAPOLIS, INDIANA

TOP ALTITUDE: ASSIGNED BY ATC

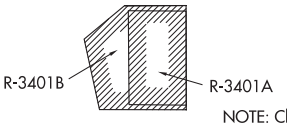
ASOS
121.575
CLNC DEL
128.6
INDIANAPOLIS DEP CON
119.05 317.8



TAKEOFF MINIMUMS

Rwys 3, 21: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb heading 031° to 2100 before turning on course, thence....
TAKEOFF RUNWAY 21: Climb heading 270° to 1600 then on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

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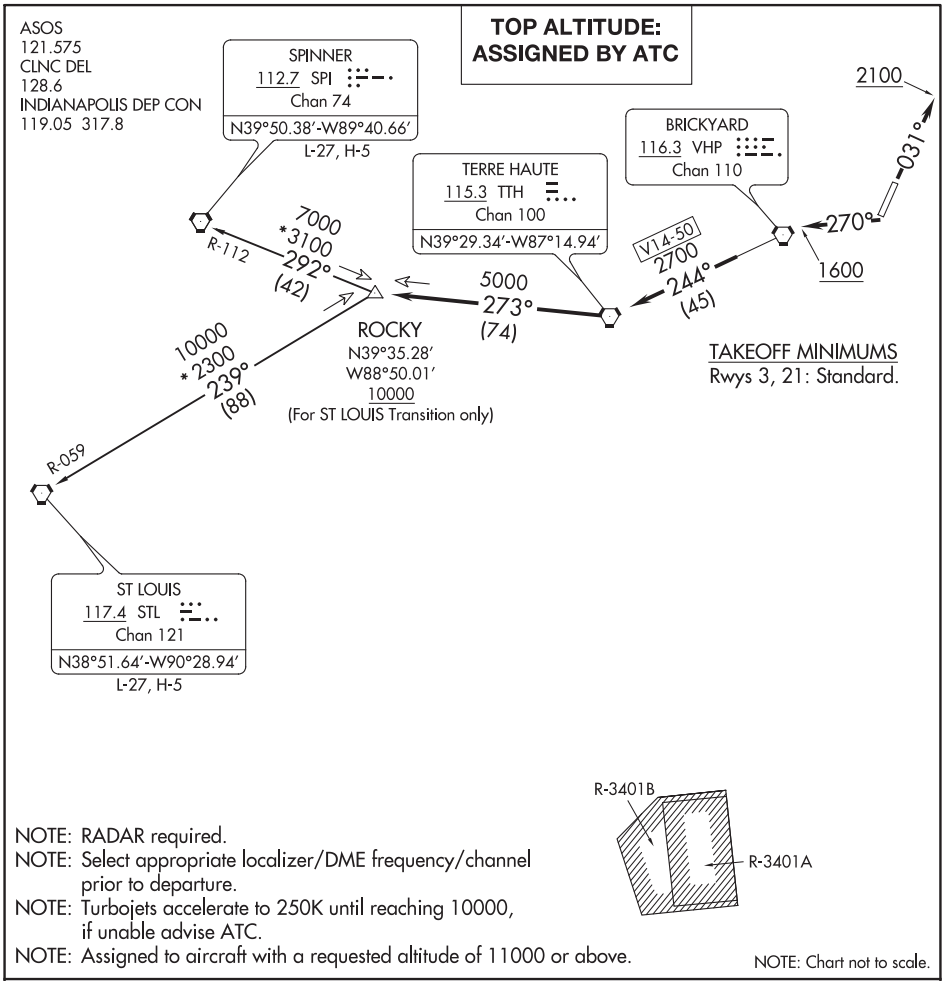
(ROCKY1.ROCKY) 18032

ROCKY ONE DEPARTURE

AL-5733 (FAA)

EAGLE CREEK AIRPARK (EYE)
INDIANAPOLIS, INDIANA



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 3: Climb heading 031° to 2100, then on assigned heading to assigned altitude. Thence . . . .
TAKEOFF RWY 21: Climb heading 270° to 1600, then on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 56533 W18A	APP CRS 183°	Rwy ldg 4400 TDZE 898 Apt Elev 898

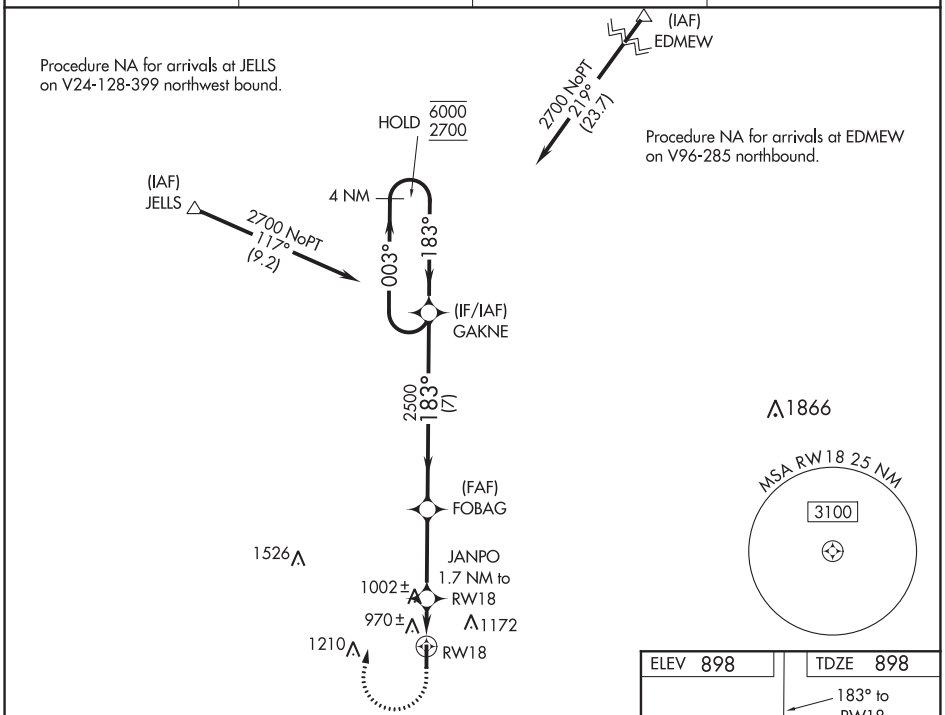
RNAV (GPS) RWY 18
HENDRICKS COUNTY-GORDON GRAHAM FIELD (2R2)

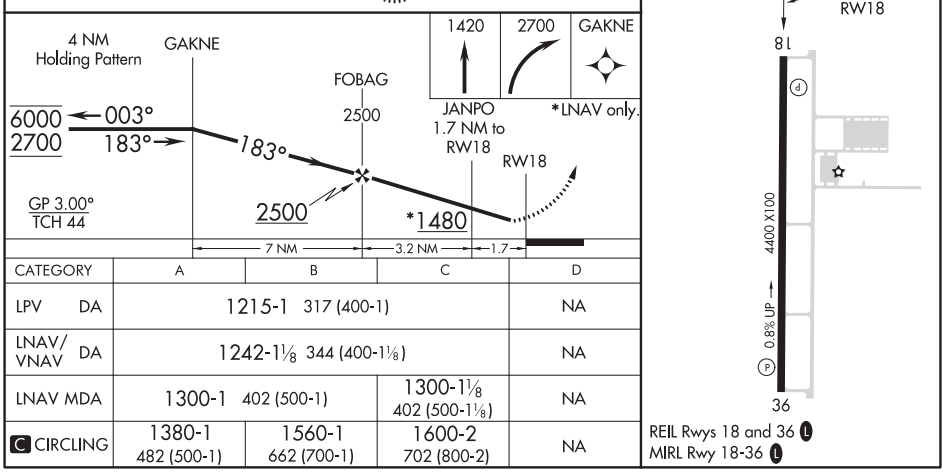
RNP APCH.

T Rwy 18 helicopter visibility reduction below ¾ SM NA.
A NA Baro-VNAV NA. Use Indianapolis Intl altimeter setting.

MISSED APPROACH: Climb to 1420 then climbing right turn to 2700 direct GAKNE and hold.

AWOS-3P	IND ASOS	INDIANAPOLIS APP CON	UNICOM
118.025	134.25	121.1	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1215-1 317 (400-1)			NA
LNAV/VNAV DA	1242-1⅛ 344 (400-1⅛)			NA
LNAV MDA	1300-1 402 (500-1)		1300-1⅛ 402 (500-1⅛)	NA
C CIRCLING	1380-1 482 (500-1)	1560-1 662 (700-1)	1600-2 702 (800-2)	NA

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INDIANAPOLIS, INDIANA

AL-10352 (FAA)

19283

RNAV (GPS) RWY 36
HENDRICKS COUNTY-GORDON GRAHAM FIELD (2R2)

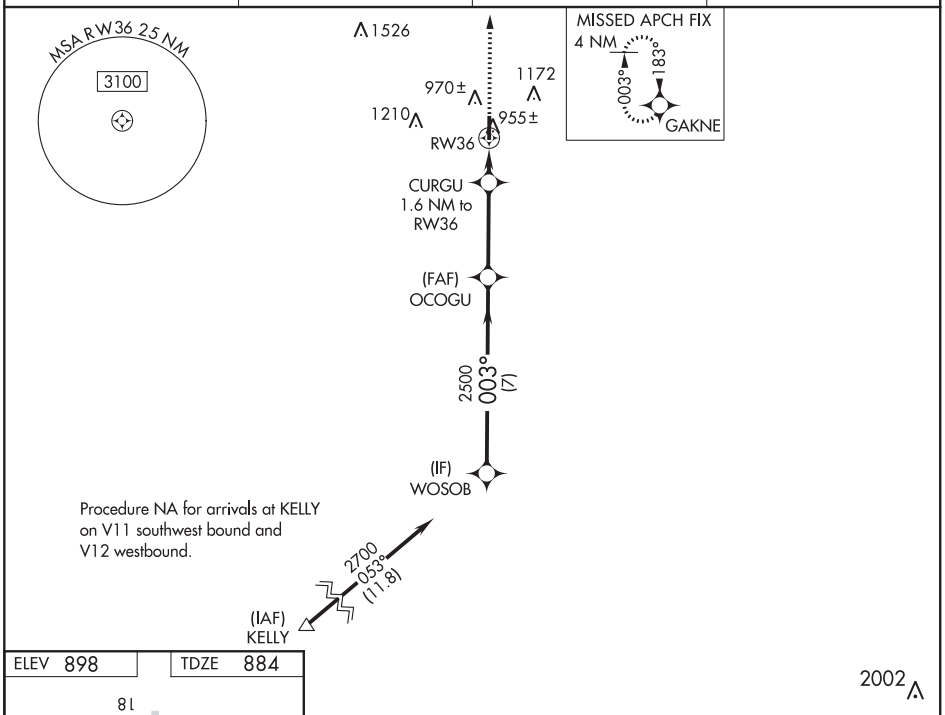
WAAS CH 45833 W36A	APP CRS 003°	Rwy ldg 4400 TDZE 884 Apt Elev 898

T A NA

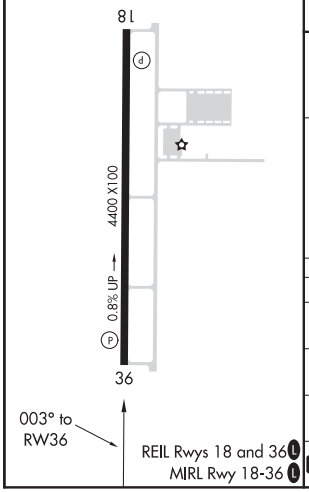
Baro-VNAV NA. DME/DME RNP-0.3 NA.
Use Indianapolis Intl altimeter setting.
Helicopter visibility reduction below ¾ SM NA.

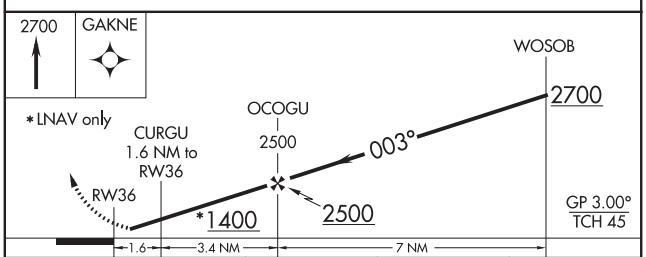
MISSED APPROACH: Climb to 2700 direct GAKNE and hold.

AWOS-3P	IND ASOS	INDIANAPOLIS APP CON	UNICOM
118.025	134.25	121.1	122.7 (CTAF) L



ELEV 898 | TDZE 884





CATEGORY	A	B	C	D
LPV DA	1168-⅞ 284 (300-⅞)			NA
LNAV/VNAV DA	1168-⅞ 284 (300-⅞)			NA
LNAV MDA	1240-1 356 (400-1)			NA
C CIRCLING	1380-1 482 (500-1)	1560-1 662 (700-1)	1600-2 702 (800-2)	NA

APP CRS	Rwy ldg	N/A
291°	TDZE	N/A
	Apt Elev	732

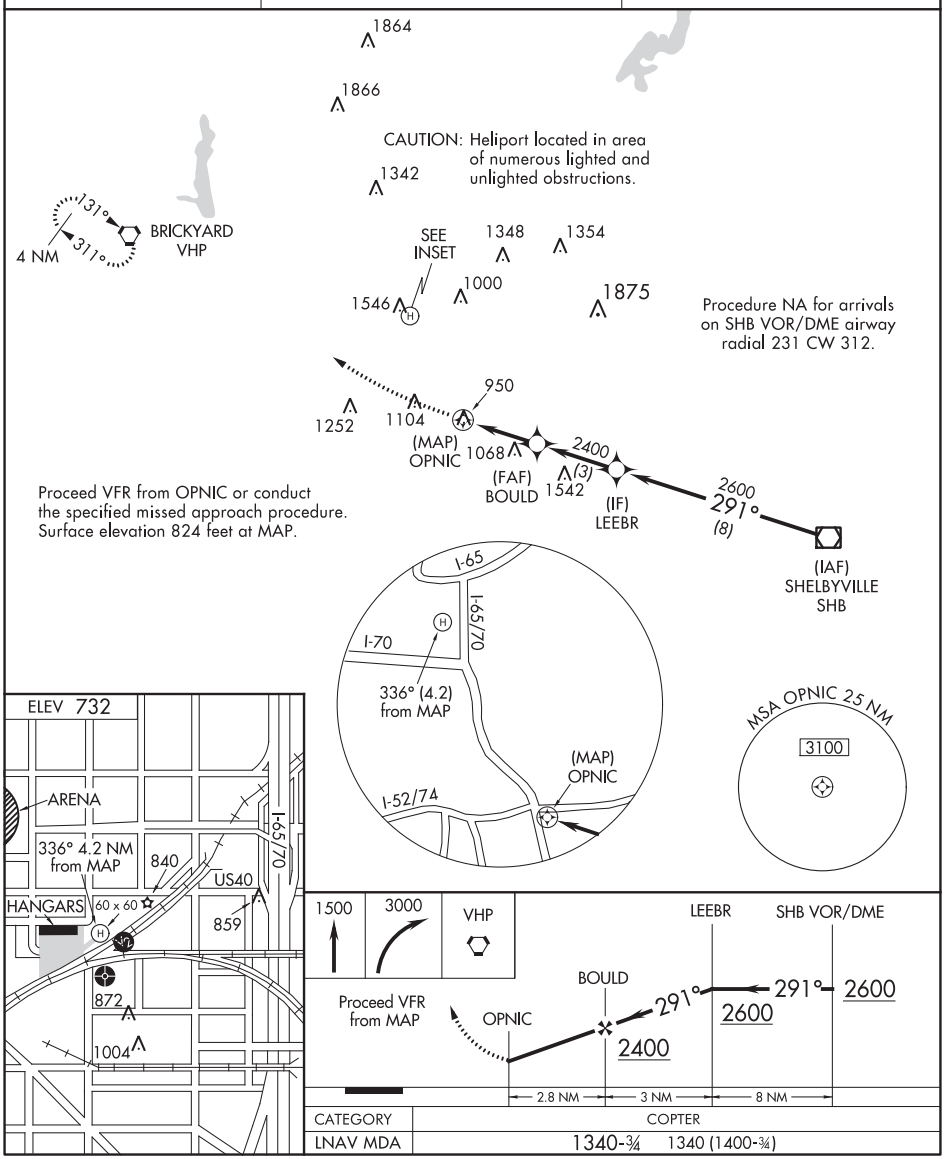
COPTER RNAV (GPS) 291°
INDIANAPOLIS DOWNTOWN (8A4)

NA

DME/DME RNP-0.3 NA. Limit final and missed approach airspeed to 70 KIAS. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase MDA 40 feet. ACTIVATE High Intensity Pad Lights-CTAF.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct VHP VORTAC and hold.

AWOS-3	INDIANAPOLIS APP CON	UNICOM
118.250	125.275 317.8	123.05 (CTAF) L



CATEGORY	COPTER
LNAV MDA	1340-¾ 1340 (1400-¾)

INDIANAPOLIS, INDIANA

AL-6835 (FAA)

20310

COPTER VOR/DME 287°

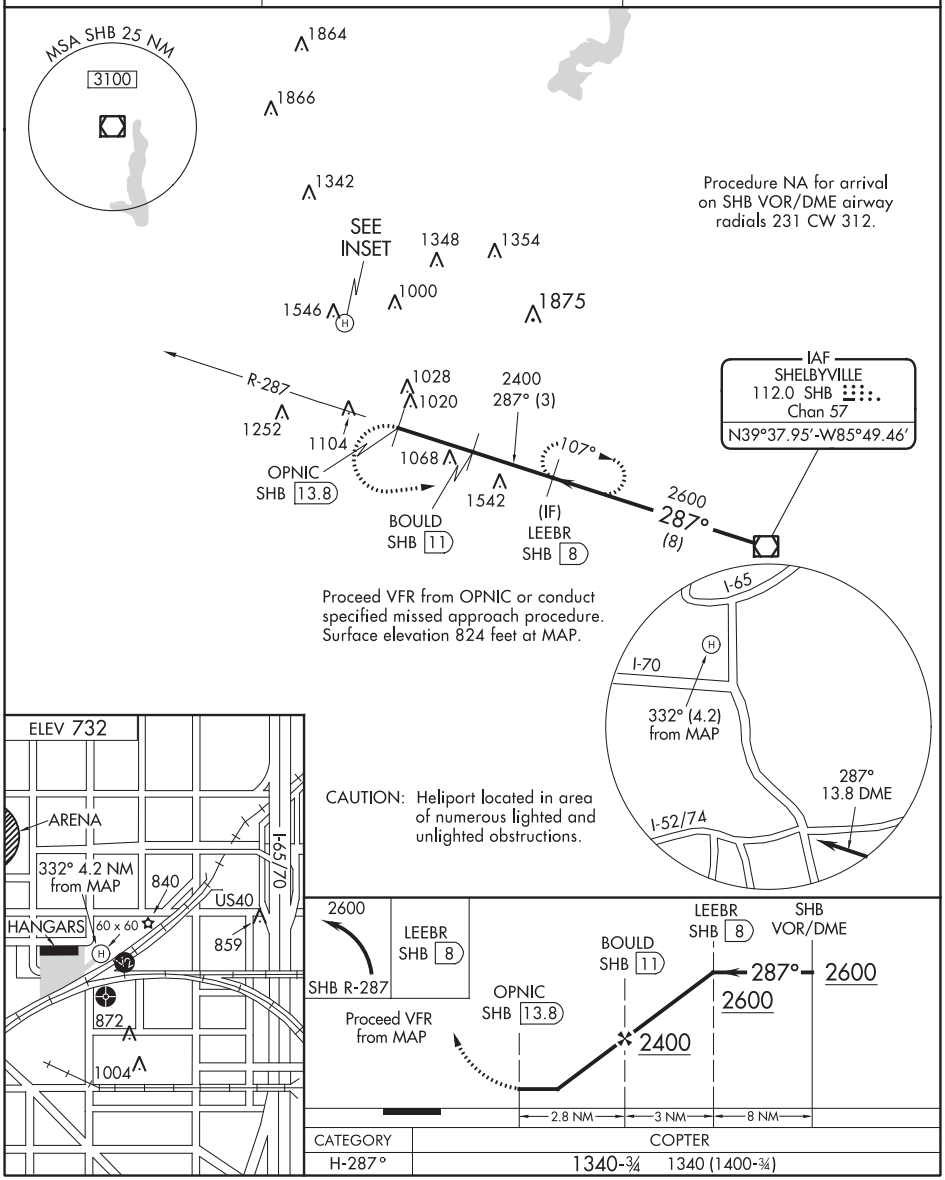
INDIANAPOLIS DOWNTOWN (8A4)

VOR/DME SHB	APP CRS	Rwy ldg	N/A
112.0	287°	TDZE	N/A
Chan 57		Apt Elev	732

NA When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase MDA 40 feet.
ACTIVATE High Intensity Pad Lights-CTAF.

MISSED APPROACH: Climbing left turn to 2600 via SHB R-287 to LEEBR/SHB 8 DME and hold.

AWOS-3	INDIANAPOLIS APP CON	UNICOM
118.250	125.275 317.8	123.05 (CTAF) L



CATEGORY	COPTER
H-287°	1340-¾ 1340 (1400-¾)

INDIANAPOLIS, INDIANA

Amdt 2A 02MAR17

39°46′N - 86°09′W

INDIANAPOLIS DOWNTOWN (8A4)

COPTER VOR/DME 287°

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LOC I-TYQ	APP CRS	Rwy ldg	5500
111.3	002°	TDZE	922
		Apt Elev	922

ILS or LOC RWY 36
INDIANAPOLIS EXECUTIVE (TYQ)

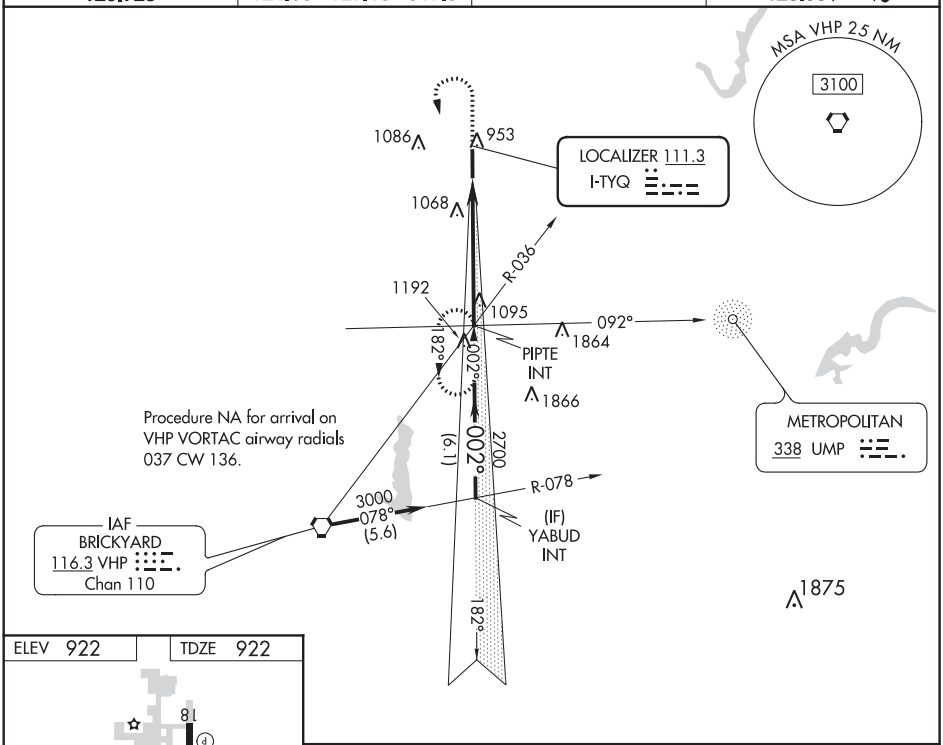
ADF required for holding.

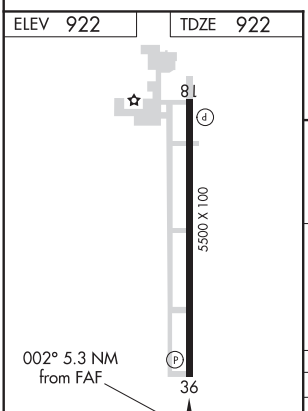
Autopilot coupled approach NA below 1900. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase DA 1184 feet and all visibilities ⅛ SM, increase all MDAs 80 feet and visibility Cats C and D, and Circling Cat C visibility ¼ SM.

NA

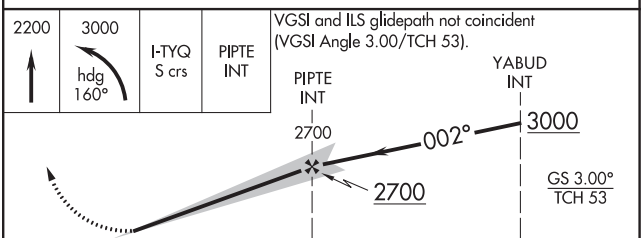
MISSED APPROACH: Climb to 2200 then climbing left turn to 3000 on heading 160° and on I-TYQ LOC south course (182°) to PIPTE INT and hold.

AWOS-3PT	INDIANAPOLIS APP CON	GCO	UNICOM
120.725	124.65 127.15 317.8	121.725	123.05 (CTAF) L





FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46



CATEGORY	A	B	C	D
S-ILS 36	1122-¾ 200 (200-¾)			
S-LOC 36	1400-1 478 (500-1)		1400-1⅜ 478 (500-1⅜)	
C CIRCLING	1400-1 478 (500-1)		1400-1½ 478 (500-1½)	1480-2 558 (600-2)

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INDIANAPOLIS, INDIANA | AL-5438 (FAA) | 19115

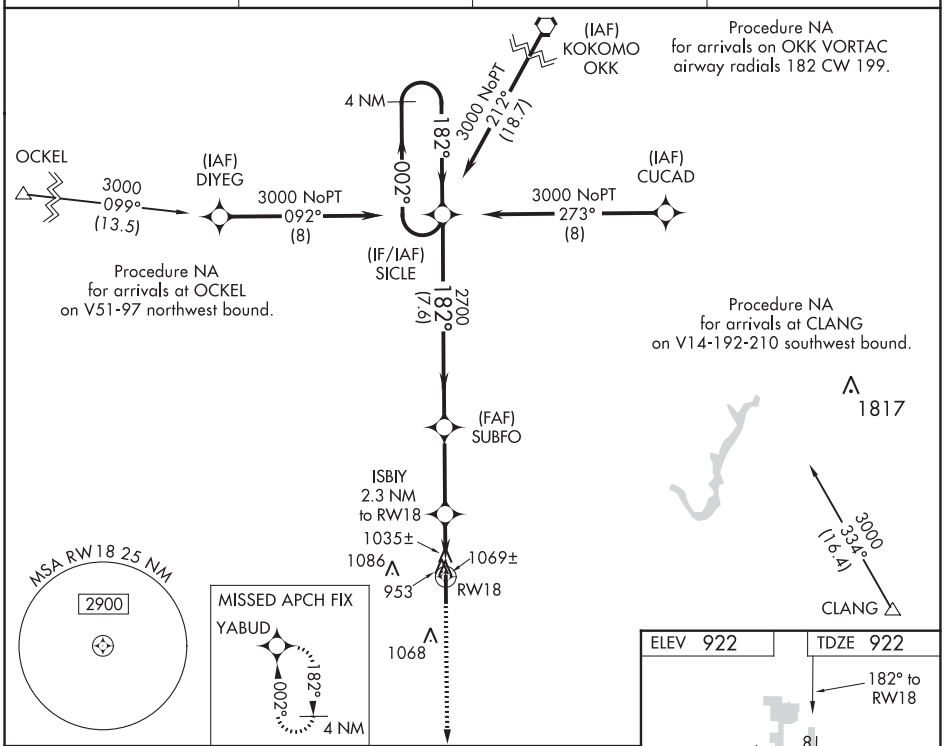
APP CRS	Rwy ldg	5500
182°	TDZE	922
	Apt Elev	922

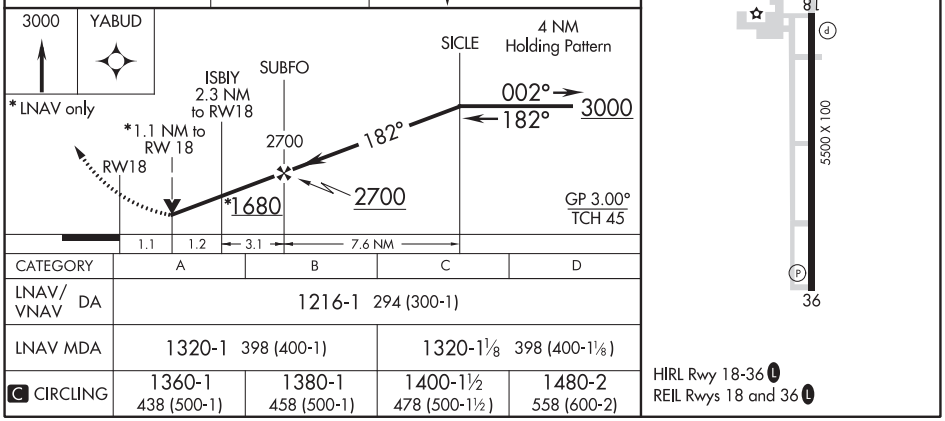
RNAV (GPS) RWY 18
INDIANAPOLIS EXECUTIVE (TYQ)

Baro-VNAV NA when using Indianapolis Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 33°C (91°F). DME/DME RNP-0.3 NA. Rwy 18 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Indianapolis Intl altimeter setting: increase DA 62 feet and visibility all Cats ¼ mile; increase all MDA 80 feet and LNAV visibility Cat C/D ⅛ mile.

MISSED APPROACH: Climb to 3000 direct YABUD and hold.

AWOS-3PT	INDIANAPOLIS APP CON	GCO	UNICOM
120.725	124.65 127.15 317.8	121.725	123.05 (CTAF) L





CATEGORY	A	B	C	D
LNAV/VNAV DA	1216-1 294 (300-1)			
LNAV MDA	1320-1 398 (400-1)		1320-1⅛ 398 (400-1⅛)	
C CIRCLING	1360-1 438 (500-1)	1380-1 458 (500-1)	1400-1½ 478 (500-1½)	1480-2 558 (600-2)

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 53599 W36A	APP CRS 002°	Rwy ldg 5500 TDZE 922 Apt Elev 922

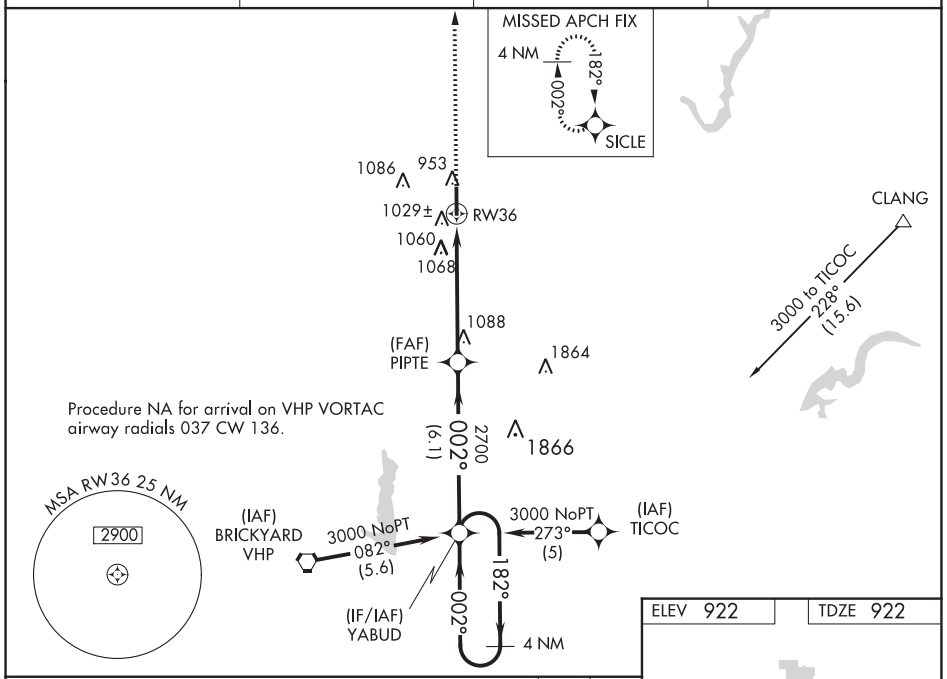
RNAV (GPS) RWY 36
INDIANAPOLIS EXECUTIVE (TYQ)

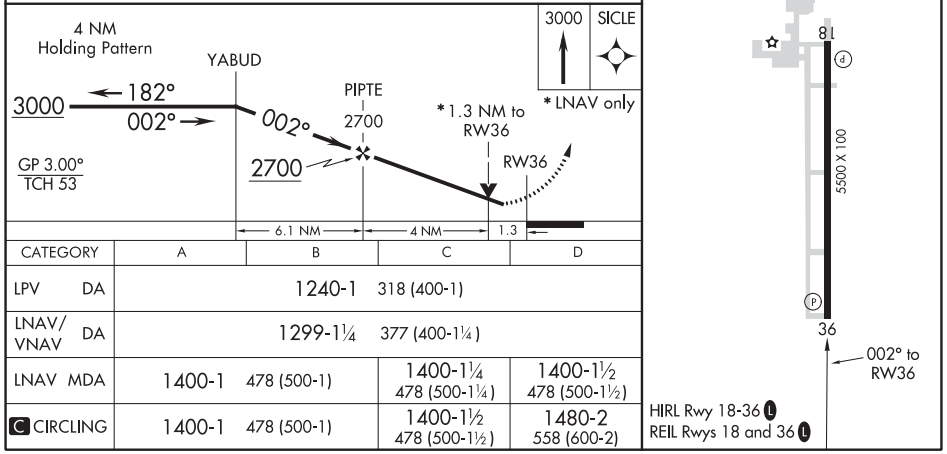
T A NA

Baro-VNAV NA when using Indianapolis Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Rwy 36 helicopter visibility reduction below ¾ SM NA. VDP NA with Indianapolis Intl altimeter setting. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all DA 62 feet and all visibilities ¼ mile; increase all MDA 80 feet, and LNAV Cats C/D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct SICLE and hold.

AWOS-3PT	INDIANAPOLIS APP CON	GCO	UNICOM
120.725	124.65 127.15 317.8	121.725	123.05 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1240-1 318 (400-1)			
LNAV/VNAV DA	1299-1¼ 377 (400-1¼)			
LNAV MDA	1400-1 478 (500-1)		1400-1¼ 478 (500-1¼)	1400-1½ 478 (500-1½)
C CIRCLING	1400-1 478 (500-1)		1400-1½ 478 (500-1½)	1480-2 558 (600-2)

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INDIANAPOLIS, INDIANA AL-5438 (FAA) 20254

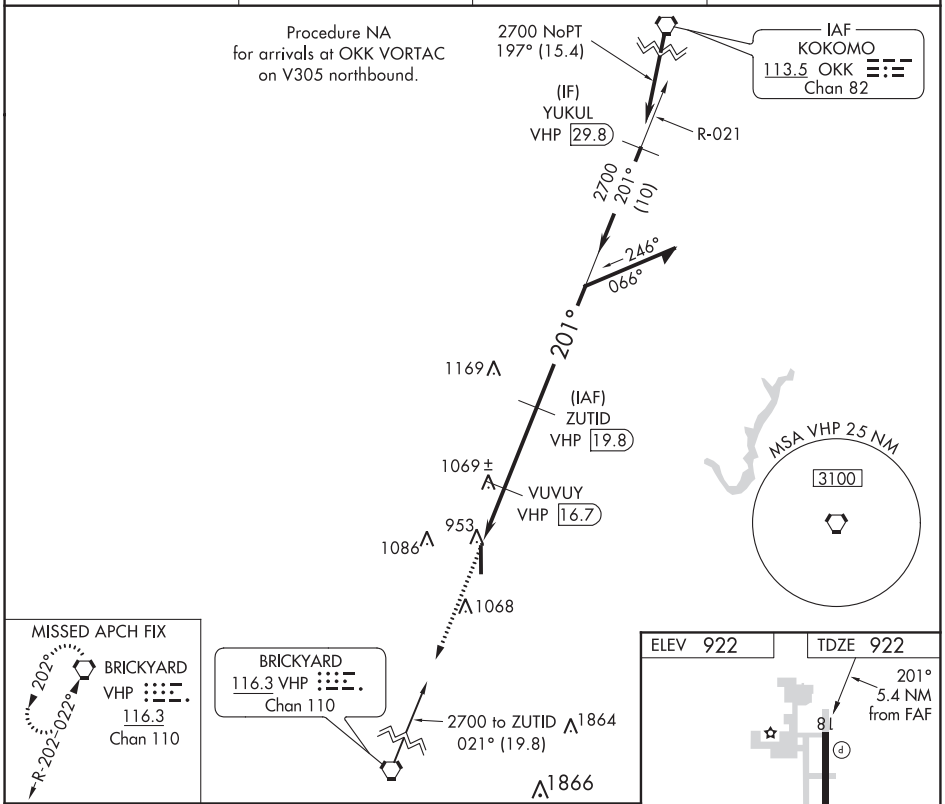
VORTAC VHP 116.3 Chan 110	APP CRS 201°	Rwy ldg 5500 TDZE 922 Apt Elev 922

VOR RWY 18
INDIANAPOLIS EXECUTIVE (TYQ)

T A Rwy 18 helicopter visibility reduction below ¾ SM NA. DME required. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 80 feet and S-18 Cats C/D visibilities ¼ mile. VDP NA when using Indianapolis Intl altimeter setting.

MISSED APPROACH: Climb to 2700 direct VHP VORTAC and hold.

AWOS-3PT	INDIANAPOLIS APP CON	GCO	UNICOM
120.725	124.65 127.15 317.8	121.725	123.05 (CTAF) L



CATEGORY	A	B	C	D
S-18	1320-1 398 (400-1)		1320-1⅛ 398 (400-1⅛)	
C CIRCLING	1360-1 438 (500-1)	1380-1 458 (500-1)	1400-1½ 478 (500-1½)	1480-2 558 (600-2)

HIRL Rwy 18-36 L
REIL Rwys 18 and 36 L

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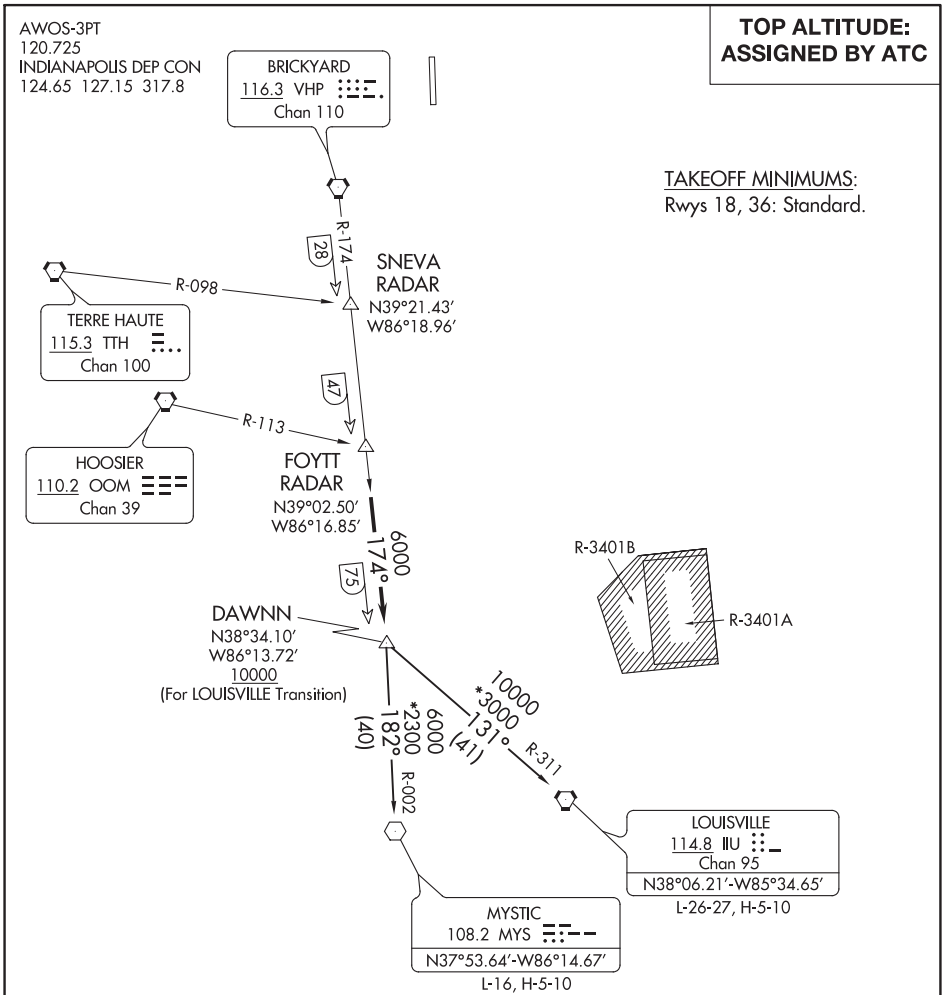

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

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AWOS-3PT
120.725
INDIANAPOLIS DEP CON
124.65 127.15 317.8

TOP ALTITUDE: ASSIGNED BY ATC

BRICKYARD
116.3 VHP
Chan 110

R-195

3000
195°
(42)

TAKEOFF MINIMUMS:
Rwys 18, 36: Standard.

HOOSIER
110.2 OOM
Chan 39
N39°08.63′-W86°36.78′
L-27

R-018

V305

3500
*2300
207°
(42)

WEGEE
N38°30.83′
W86°59.25′

V305

3500
*2100
223°
(511)

R-043

POCKET CITY
113.3 PXV
Chan 80
N37°55.70′-W87°45.74′
L-16, H-5

R-3401B

R-3401A

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

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(MAREO5.MAREO) 20086

MAREO FIVE DEPARTURE

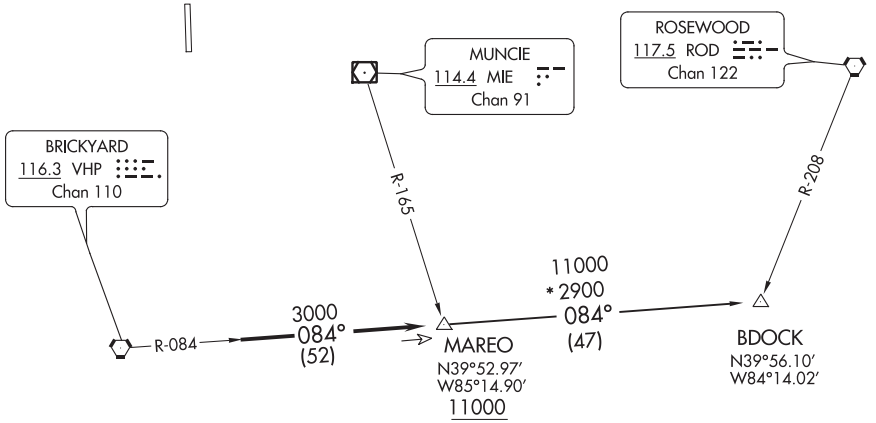
AL-5438 (FAA)

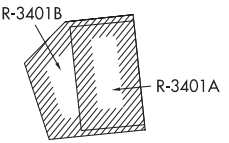
INDIANAPOLIS EXECUTIVE (TYQ)
INDIANAPOLIS, INDIANA

AWOS-3PT
120.725
INDIANAPOLIS DEP CON
124.65 127.15 317.8

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwy 18, 36: Standard.





NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

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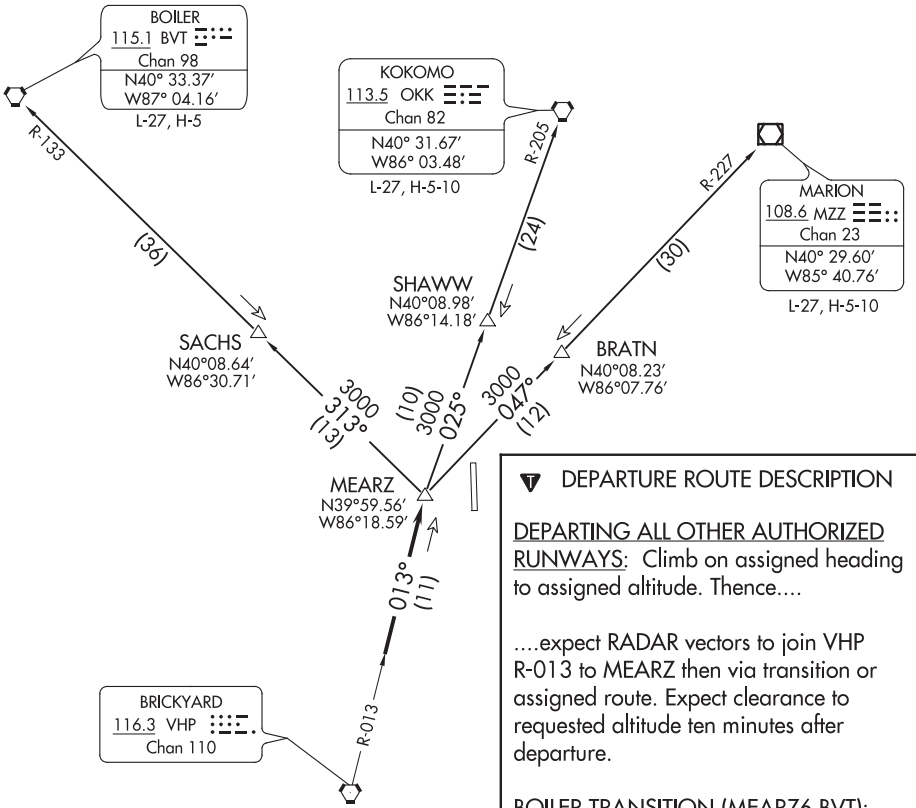
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3PT
120.725
INDIANAPOLIS DEP CON
124.65 127.15 317.8



DEPARTURE ROUTE DESCRIPTION

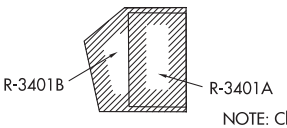
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT):
From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK):
From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ):
From over MEARZ via MZZ R-227 to MZZ VOR/DME.

TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

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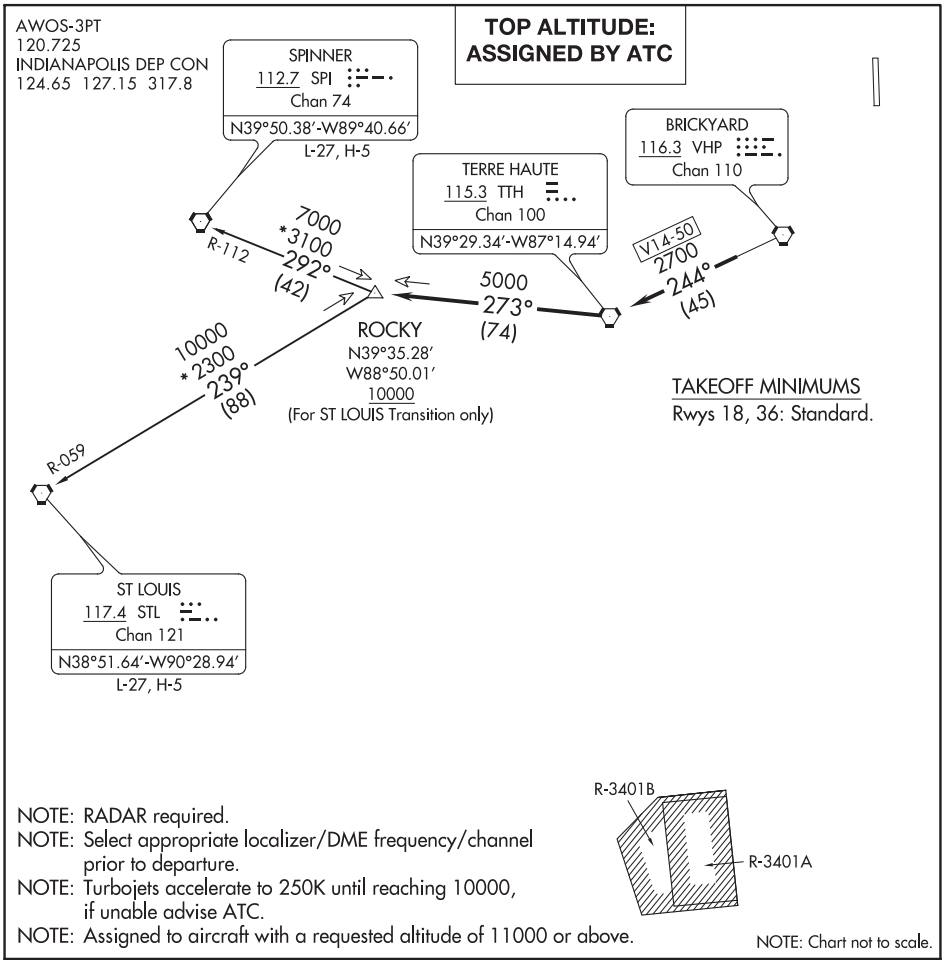
(ROCKY1.ROCKY) 18032
ROCKY ONE DEPARTURE

AL-5438 (FAA)

INDIANAPOLIS EXECUTIVE (TYQ)
INDIANAPOLIS, INDIANA



TAKEOFF MINIMUMS
Rwys 18, 36: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

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ILS or LOC RWY 5L
INDIANAPOLIS INTL (IND)

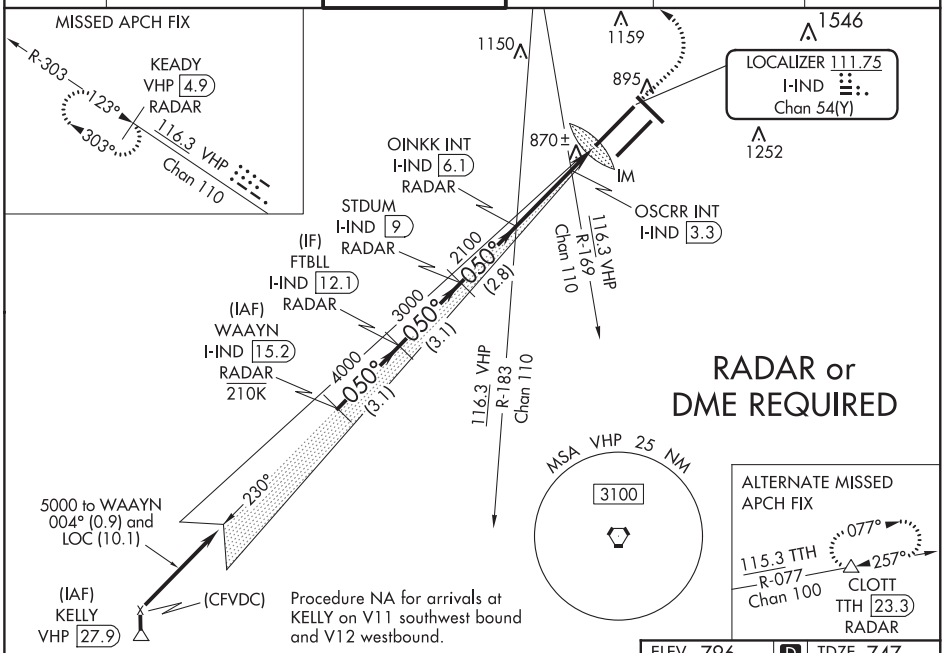
LOC/DME I-IND	APP CRS	Rwy ldg 11200
111.75	050°	TDZE 747
Chan 54 (Y)		Apt Elev 796

T A Simultaneous approach authorized. DME or RADAR required. For inop ALS, increase S-LOC 5L Cat C/D visibility to 1⅜ SM. OSCRR fix minimums: For inop ALS, increase S-LOC 5L Cat C/D visibility to RVR 5500.

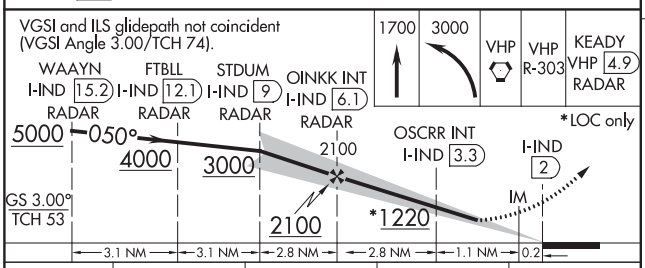
ALSF-2

MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 direct VHP VORTAC then on VHP VORTAC R-303 to KEADY/VHP 4.9 DME/RADAR and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

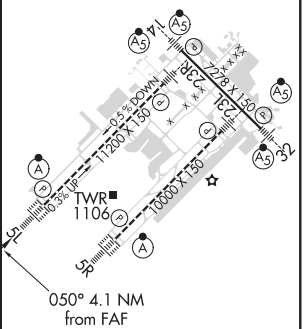


VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 74).



CATEGORY	A	B	C	D
S-ILS 5L	947/18 200 (200-½)			
S-LOC 5L	1220/24 473 (500-½)		1220/50 473 (500-1)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)
OSCRR FIX MINIMUMS (DUAL VOR RECEIVERS or DME REQUIRED)				
S-LOC 5L	1120/24 373 (400-½)		1120/35 373 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

ELEV 796 D TDZE 747



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

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EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-OQV	APP CRS	Rwy ldg 10000
111.15	050°	TDZE 791
Chan 48 (Y)		Apt Elev 796

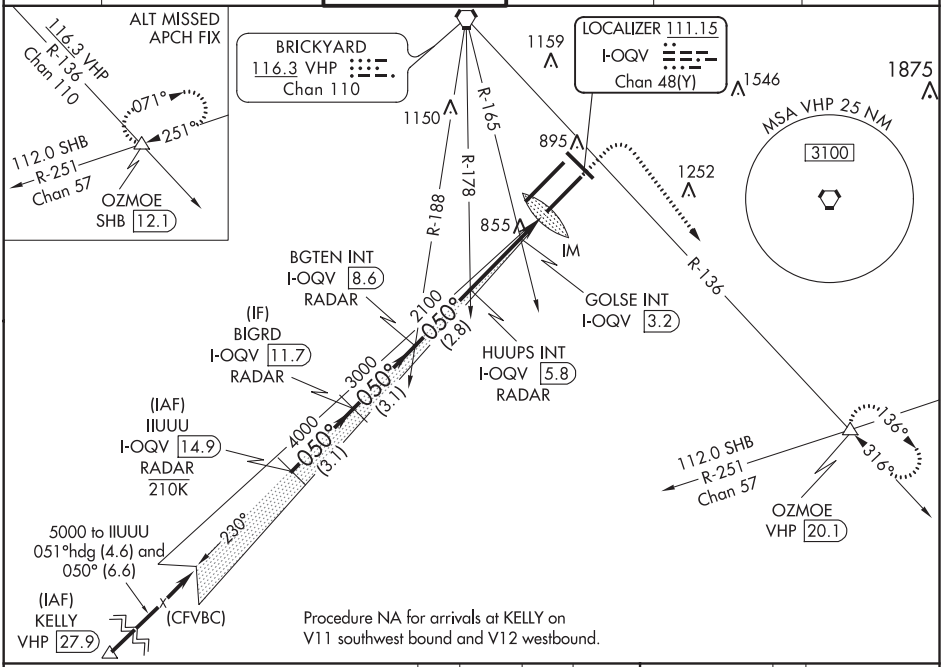
ILS or LOC RWY 5R
INDIANAPOLIS INTL (IND)

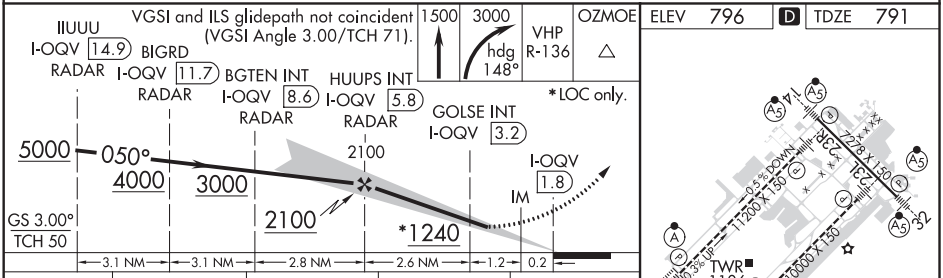
DME or RADAR required.
Simultaneous approach authorized.

ALSF-2

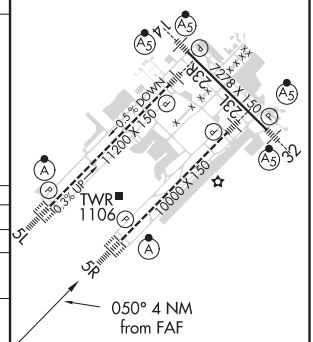
MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on heading 148° and on VHP VORTAC R-136 to OZMOE INT/VHP 20.1 DME and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	





ELEV 796 D TDZE 791



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

CATEGORY	A	B	C	D
S-ILS 5R	991/18 200 (200-½)			
S-LOC 5R	1240/24 449 (500-½)		1240/45 449 (500-⅞)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)
GOLSE FIX MINIMUMS (DUAL VOR RECEIVERS or DME REQUIRED)				
S-LOC 5R	1160/24 369 (400-½)		1160/35 369 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

FAF to MAP 4 NM

Knots	45	60	75	90	105
Min:Sec	5:20	4:00	3:12	2:40	2:17

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ILS or LOC RWY 14
INDIANAPOLIS INTL (IND)

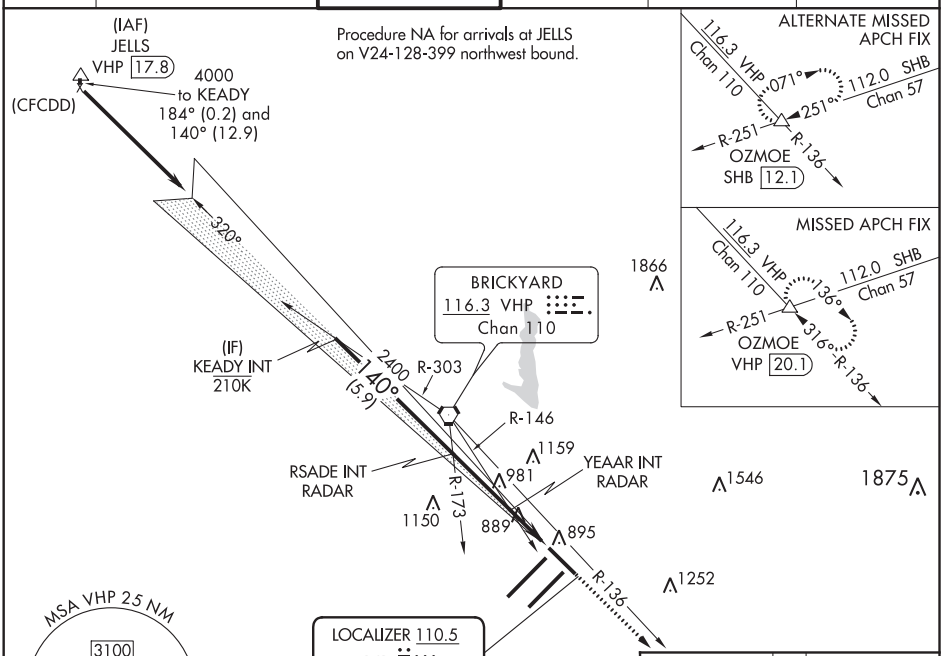
LOC I-BJP	APP CRS	Rwy ldg 7278
110.5	140°	TDZE 796
		Apt Elev 796

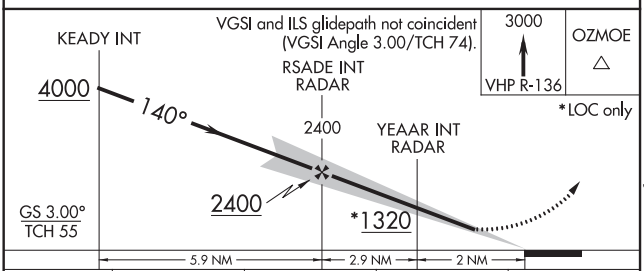
#RVR 1800 authorized with the use of FD or AP or HUD to DA.

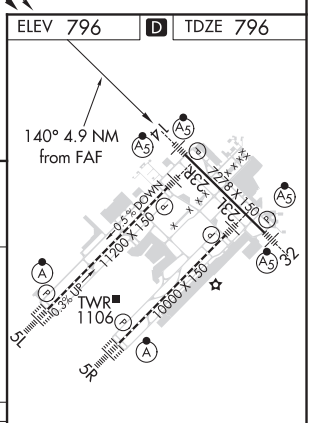
MALSR

MISSED APPROACH: Climb to 3000 on VHP VORTAC R-136 to OZMOE INT/VHP 20.1 DME and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	







HIRL all Rwys
TDZ/CL Rwys 5L and 5R

CATEGORY	A	B	C	D
S-ILS 14#	996/24 200 (200-½)			
S-LOC 14	1140/24 344 (400-½)		1140/30 344 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

INDIANAPOLIS, INDIANA

AL-203 (FAA)

20310

LOC/DME I-FVJ 111.15 Chan 48 (Y)	APP CRS 230°	Rwy ldg 10000 TDZE 790 Apt Elev 796

ILS or LOC RWY 23L

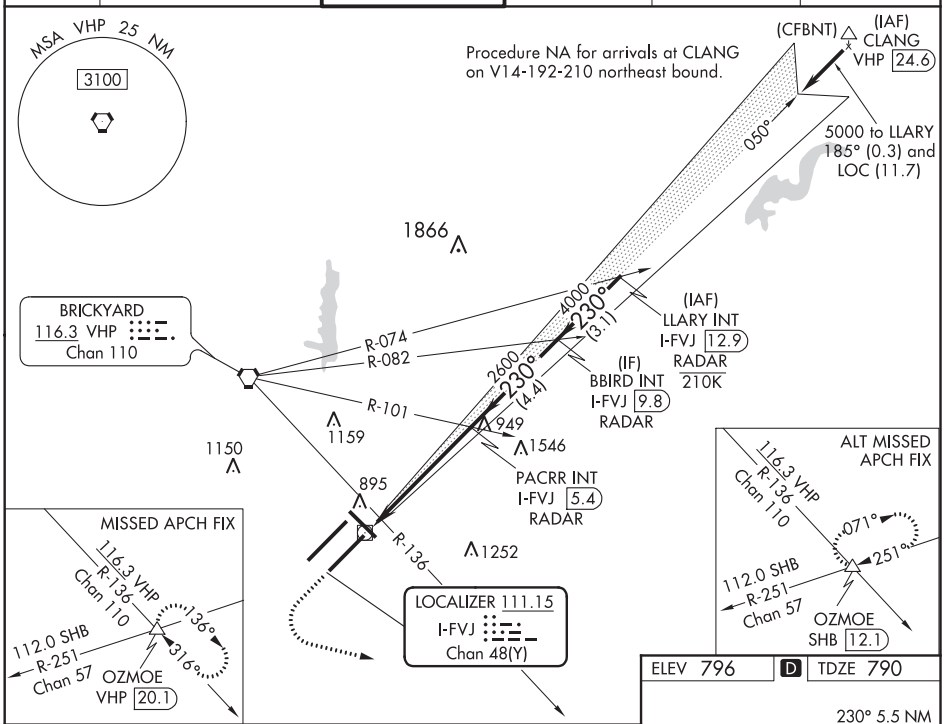
INDIANAPOLIS INTL (IND)

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

MALSR

MISSED APPROACH: Climb to 1500 then climbing left turn to 3000 on heading 100° and on VHP VORTAC R-136 to OZMOE/VHP 20.1 DME and hold.

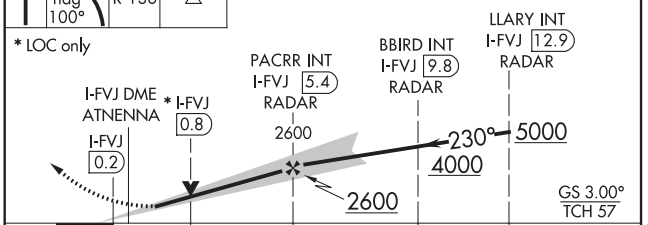
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

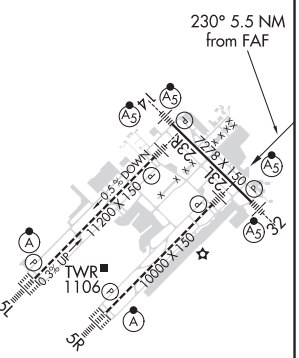


ELEV 796	D	TDZE 790

1500	3000 hdg 100°	VHP R-136	OZMOE

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 75).





CATEGORY	A	B	C	D
S-ILS 23L	** 990/24 200 (200-½)			
S-LOC 23L	1180/24 390 (400-½)		1180/35 390 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

ILS or LOC RWY 23R
INDIANAPOLIS INTL (IND)

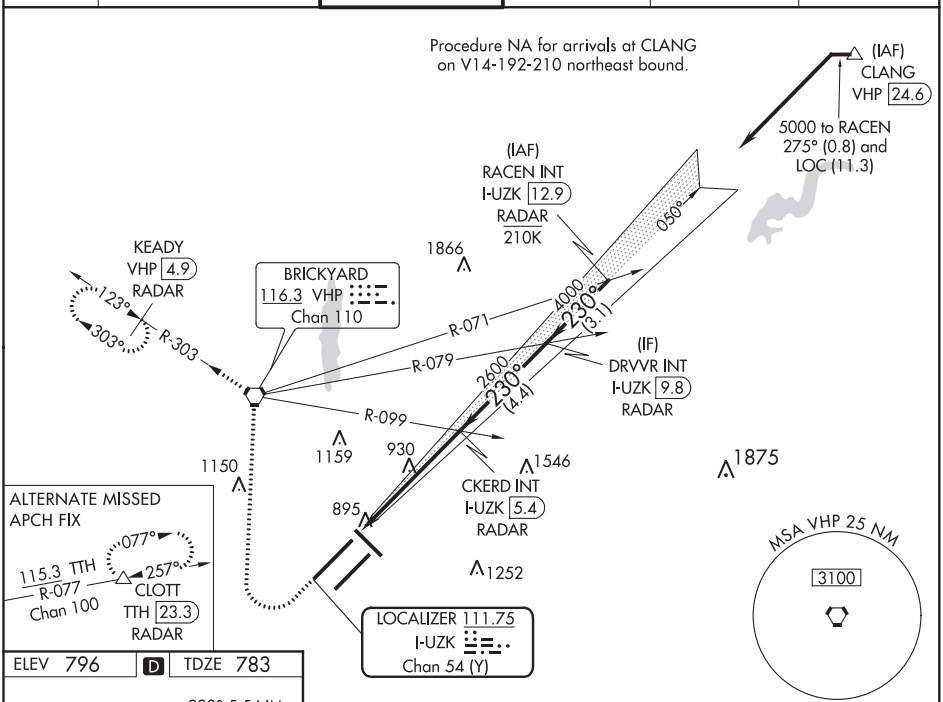
LOC/DME I-UZK	APP CRS	Rwy ldg 11200
111.75	230°	TDZE 783
Chan 54 (Y)		Apt Elev 796

** RVR 1800 authorized with use of FD or AP or HUD to DA. Simultaneous approach authorized. DME or RADAR required.

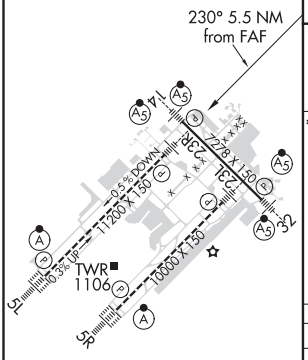
MALSR

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct VHP VORTAC and on VHP R-303 to KEADY/VHP 4.9 DME/RADAR and hold.

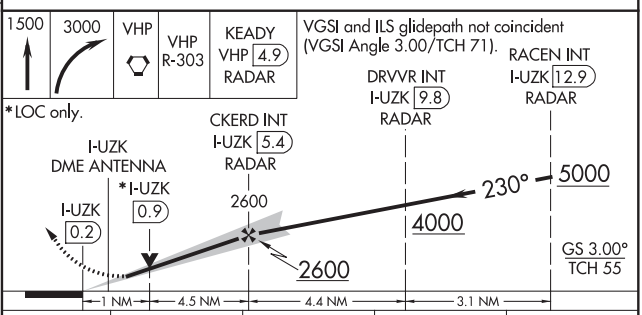
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796 | D | TDZE 783



FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50



CATEGORY	A	B	C	D
S-ILS 23R**	983/24 200 (200-½)			
S-LOC 23R	1180/24 397 (400-½)		1180/35 397 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

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ILS or LOC RWY 32
INDIANAPOLIS INTL (IND)

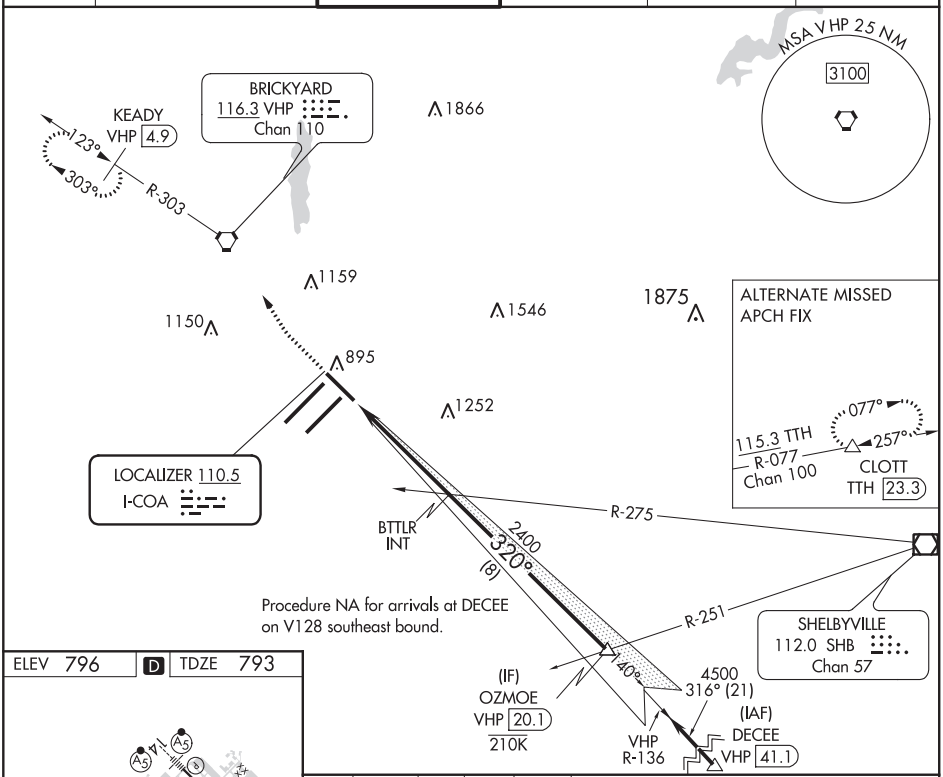
LOC I-COA	APP CRS	Rwy ldg / TDZE / Apt Elev
110.5	320°	7278 / 793 / 796

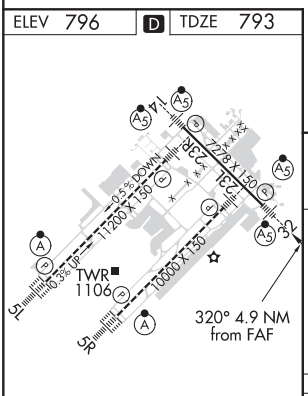
DME required.
#RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct VHP VORTAC and on VHP R-303 to KEADY/ VHP 4.9 DME and hold.

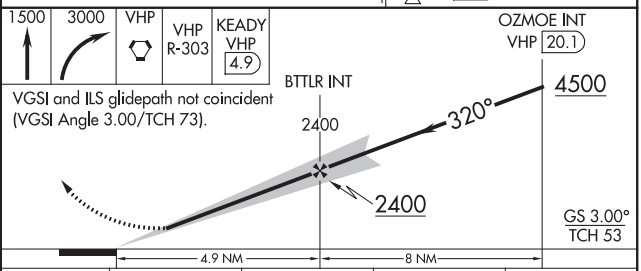
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	





HIRL all Rwys
TDZ/CL Rwys 5L and 5R

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 73).

CATEGORY	A	B	C	D
S-ILS 32	# 993/24 200 (200-½)			
S-LOC 32	1280/24 487 (500-½)		1280/50 487 (500-1)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

EC-2, 25 FEB 2021 to 22 APR 2021

ILS RWY 5L (SA CAT I)
INDIANAPOLIS INTL (IND)

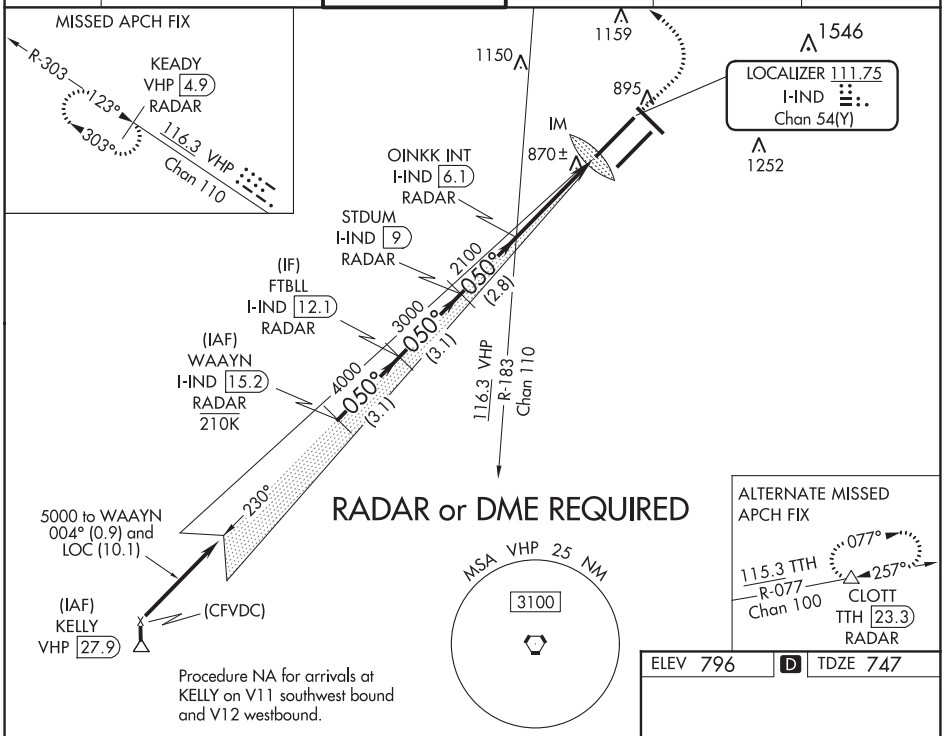
LOC/DME I-IND	APP CRS	Rwy ldg 11200
111.75	050°	TDZE 747
Chan 54 (Y)		Apt Elev 796

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 direct VHP VORTAC then on VHP VORTAC R-303 to KEADY/VHP 4.9 DME/RADAR and hold.

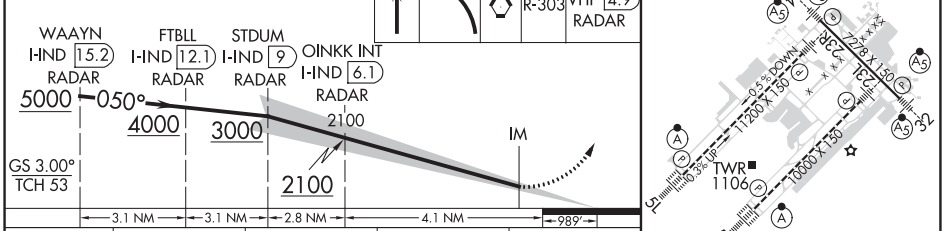
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796	D	TDZE 747

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 74).

1700	3000	VHP	VHP R-303	KEADY VHP 4.9 RADAR



CATEGORY	A	B	C	D
S-ILS 5L	RA 178/14 150 DA 897			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA

AL-203 (FAA)

20310

ILS RWY 5R (SA CAT I)
INDIANAPOLIS INTL (IND)

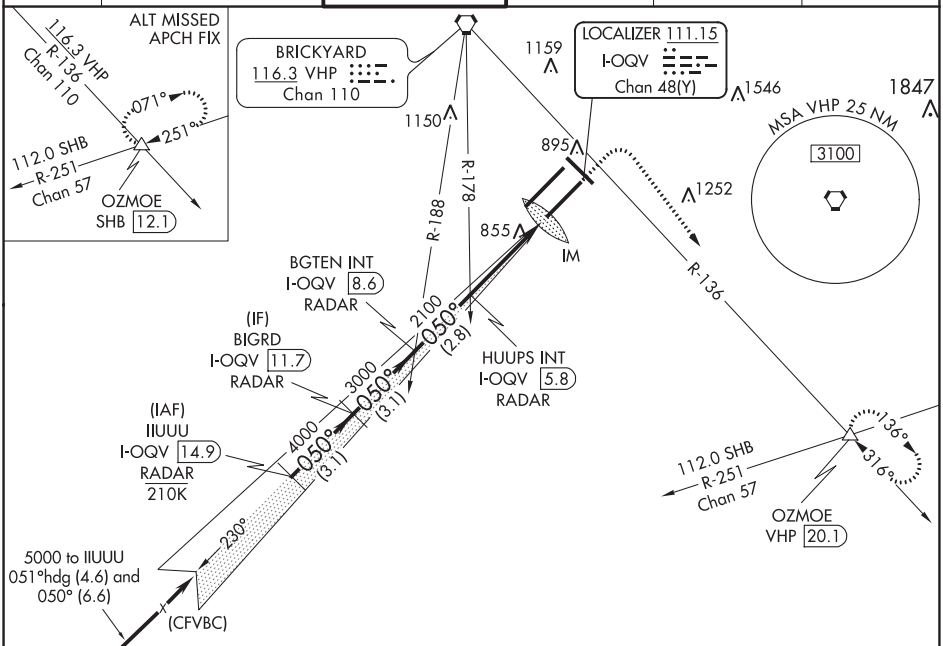
LOC/DME I-OQV	APP CRS	Rwy ldg	10000
111.15	050°	TDZE	791
Chan 48 (Y)		Apt Elev	796

DME or RADAR required. Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on heading 148° and on VHP VORTAC R-136 to OZMOE INT/VHP 20.1 DME and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

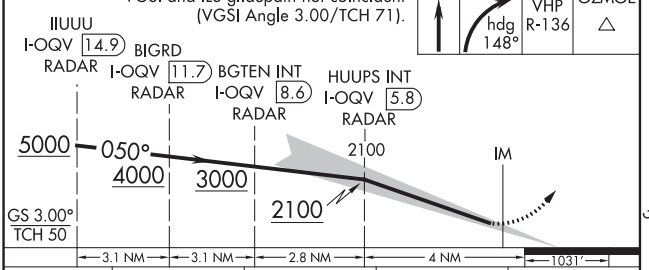


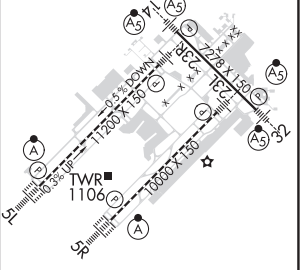
Procedure NA for arrivals at KELLY on V11 southwest bound and V12 westbound.

ELEV 796	D	TDZE 791

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).

1500	3000 hdg 148°	VHP R-136	OZMOE △





CATEGORY	A	B	C	D
S-ILS 5R	RA 163/14 150 DA 941			

SA CATEGORY I ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

INDIANAPOLIS, INDIANA
Amdt 7A 26MAR20

39°43'N-86°18'W

INDIANAPOLIS INTL (IND)
ILS RWY 5R (SA CAT I)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ILS RWY 23R (SA CAT I & II)

INDIANAPOLIS INTL (IND)

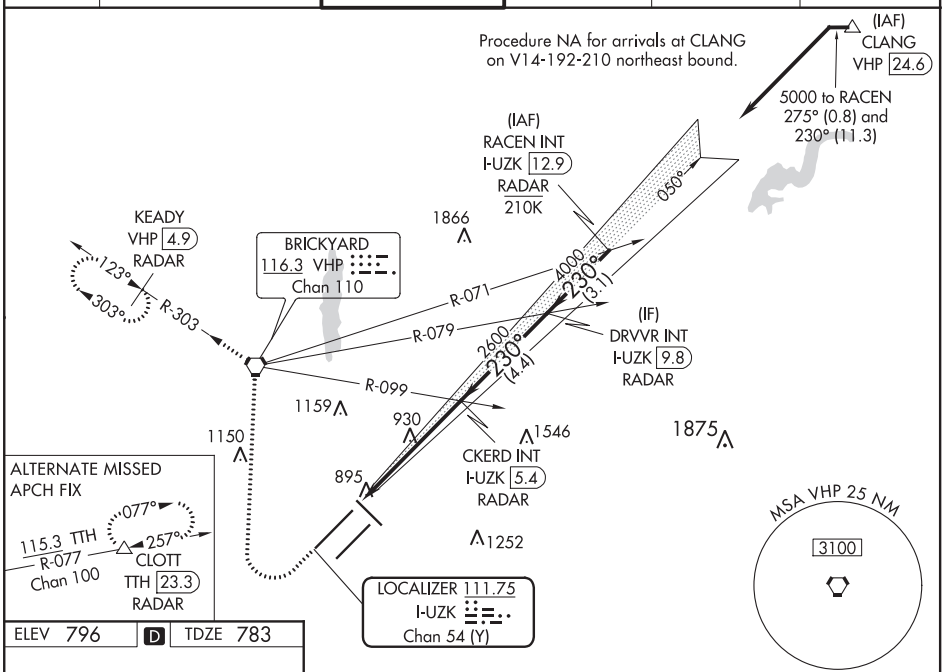
LOC/DME I-UZK	APP CRS	Rwy ldg 11200
111.75	230°	TDZE 783
Chan 54 (Y)		Apt Elev 796

Simultaneous approach authorized. DME or RADAR required. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. Reduced lighting: requires specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.

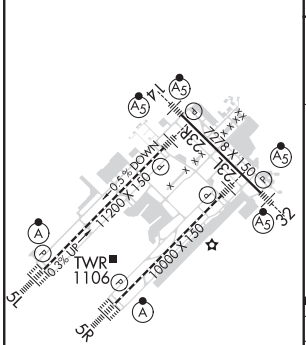
MALSR

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct VHP VORTAC and on VHP R-303 to KEADY/VHP 4.9 DME/RADAR and hold.

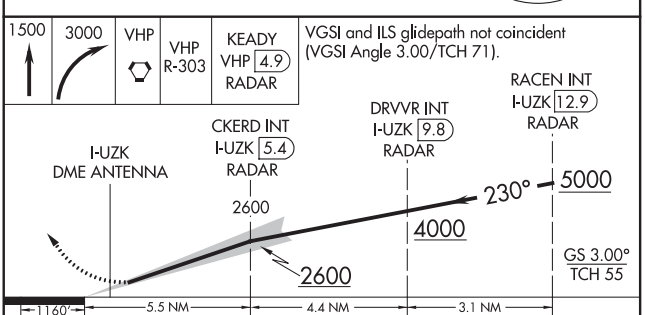
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796 | D | TDZE 783



HIRL all Rwys
TDZ/CL Rwys 5L and 5R



CATEGORY	A	B	C	D
S-ILS 23R	SA CAT I RA 140/14 150 DA 933			
S-ILS 23R	SA CAT II RA 96/12 100 DA 883			

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA AL-203 (FAA) 20310

ILS RWY 5L (CAT II & III)
INDIANAPOLIS INTL (IND)

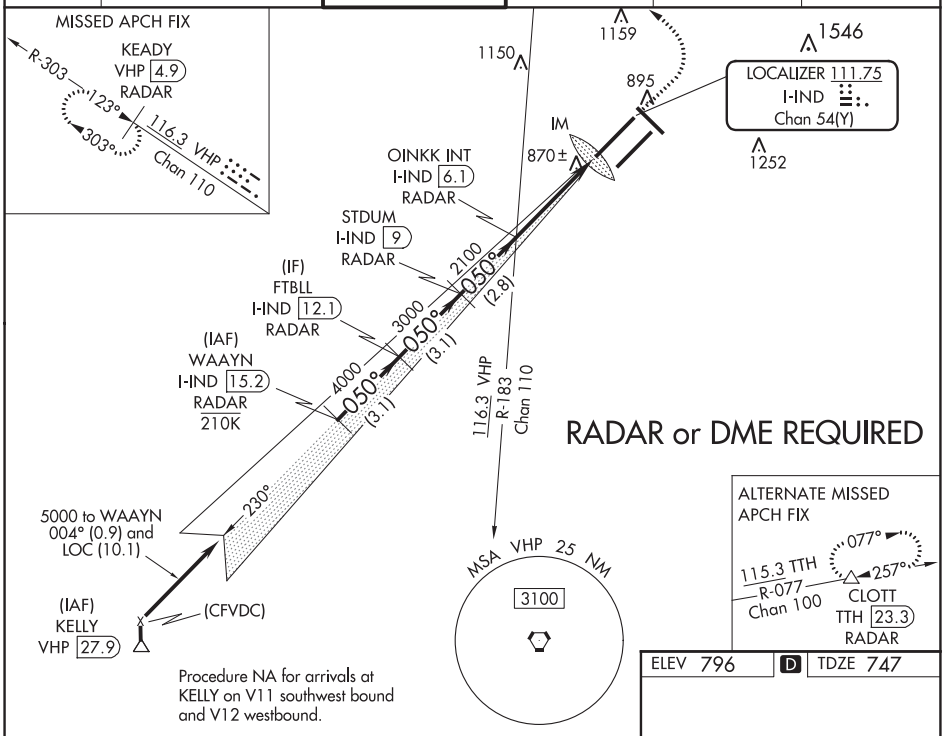
LOC/DME I-IND	APP CRS	Rwy ldg 11200
111.75	050°	TDZE 747
Chan 54 (Y)		Apt Elev 796

Simultaneous approach authorized.
CAT III: Localizer not suitable for electronic rollout guidance. DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 direct VHP VORTAC then on VHP VORTAC R-303 to KEADY/VHP 4.9 DME/RADAR and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

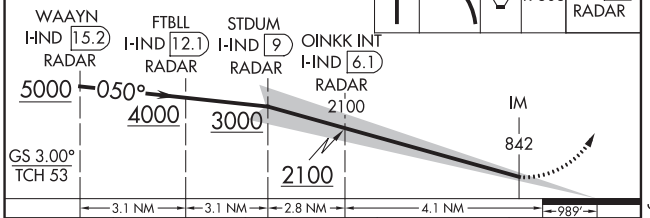


Procedure NA for arrivals at KELLY on V11 southwest bound and V12 westbound.

ELEV 796	D	TDZE 747

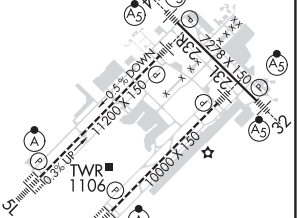
VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 74).

1700	3000	VHP	VHP R-303	KEADY VHP 4.9 RADAR



CATEGORY	A	B	C	D
S-ILS 5L	CAT II RA 113/12 100 DA 847			
S-ILS 5L	CAT III RVR 07			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-OQV	APP CRS	Rwy ldg 10000
111.15	050°	TDZE 791
Chan 48 (Y)		Apt Elev 796

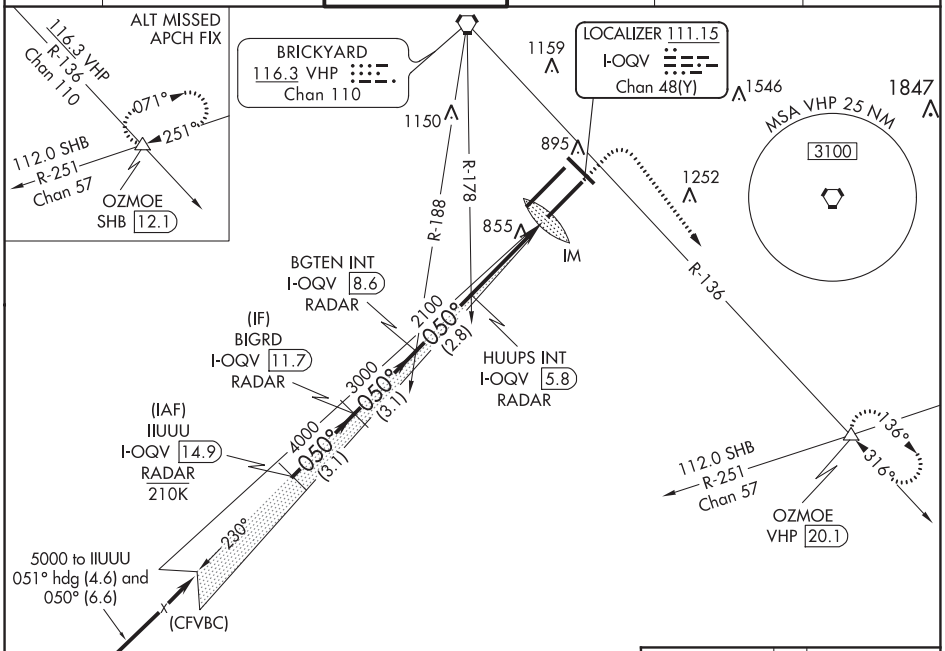
ILS RWY 5R (CAT II & III)
INDIANAPOLIS INTL (IND)

DME or RADAR required.
Simultaneous approach authorized.

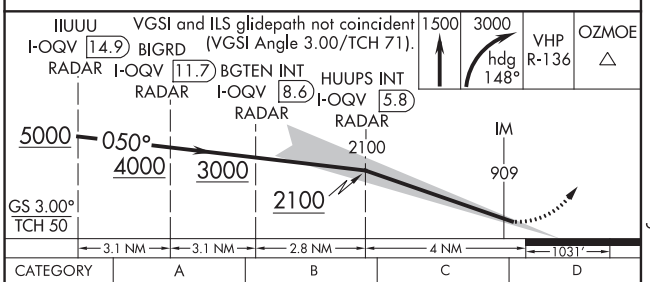
ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 on heading 148° and on VHP VORTAC R-136 to OZMOE INT/VHP 20.1 DME and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



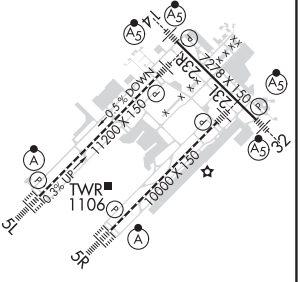
Procedure NA for arrivals at KELLY on V11 southwest bound and V12 westbound.



CATEGORY	A	B	C	D
S-ILS 5R	CAT II RA 109/12 100 DA 891			
S-ILS 5R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 796 | D | TDZE 791



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	11200
050°	TDZE	747
	Apt Elev	796

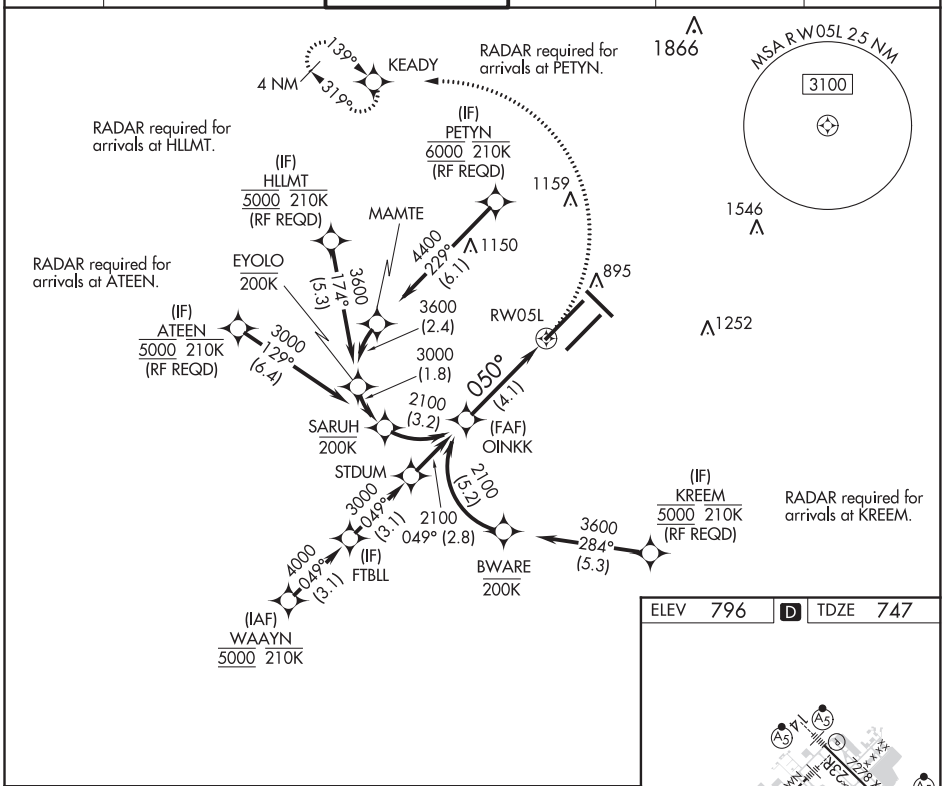
RNAV (RNP) Z RWY 5L
INDIANAPOLIS INTL (IND)

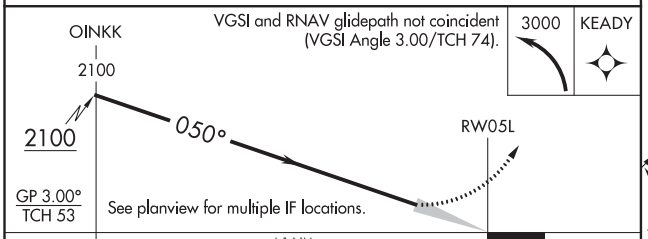
For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). GPS required. For inop ALS, increase RNP 0.30 all Cats visibility to 1½ SM. Simultaneous approach authorized.

ALSF-2

MISSED APPROACH: Climbing left turn to 3000 direct KEADY and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

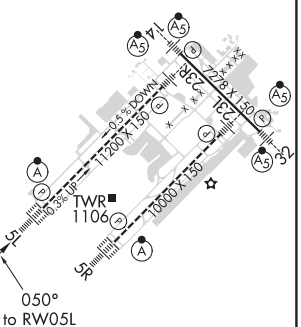




CATEGORY	A	B	C	D
RNP 0.30 DA	1197/60 450 (500-1¼)			

AUTHORIZATION REQUIRED

ELEV 796 D TDZE 747



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10000
050°	TDZE	791
	Apt Elev	796

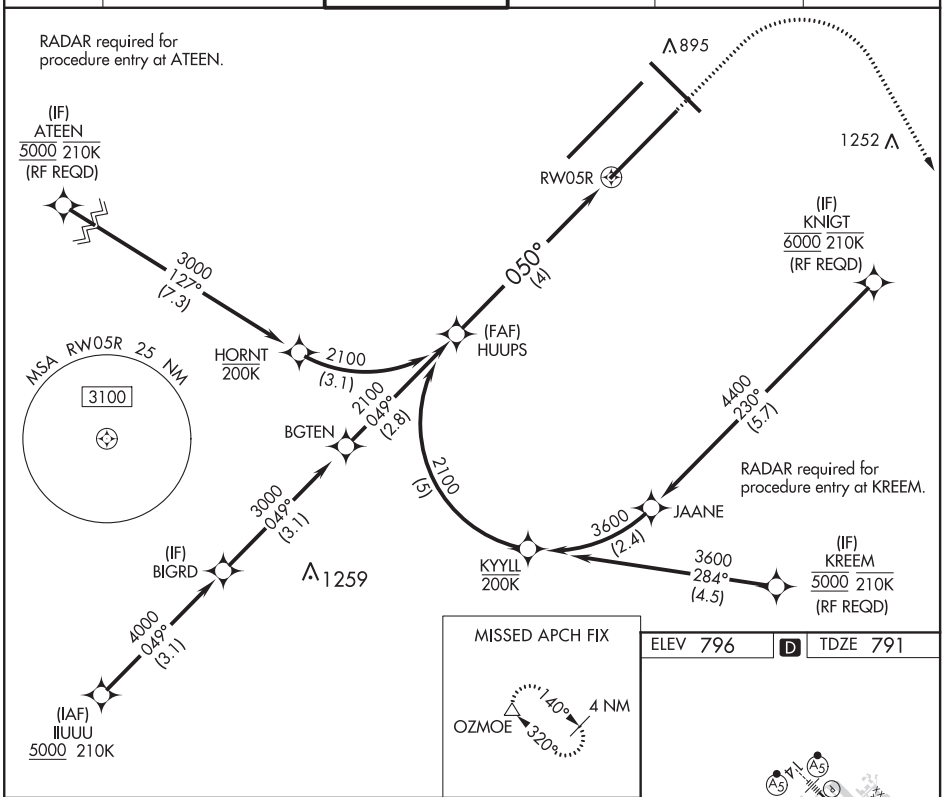
RNAV (RNP) Z RWY 5R
INDIANAPOLIS INTL (IND)

For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized, for arrivals from IIUUU only.

ALSF-2

MISSED APPROACH: Climb to 1500, then climbing right turn to 3000 direct OZMOE and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	

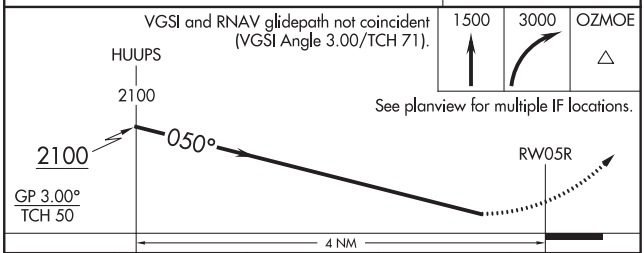


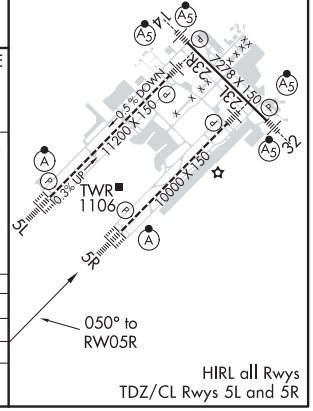
ELEV 796 D TDZE 791

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 71).

1500	3000	OZMOE
↑	↗	△

See planview for multiple IF locations.





CATEGORY	A	B	C	D
RNP 0.11 DA	1174/45 383 (400-⅞)			
RNP 0.30 DA	1271/60 480 (500-1¼)			

AUTHORIZATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA | AL-203 (FAA) | 20310

APP CRS	Rwy ldg	7278
140°	TDZE	796
	Apt Elev	796

RNAV (RNP) Z RWY 14

INDIANAPOLIS INTL (IND)

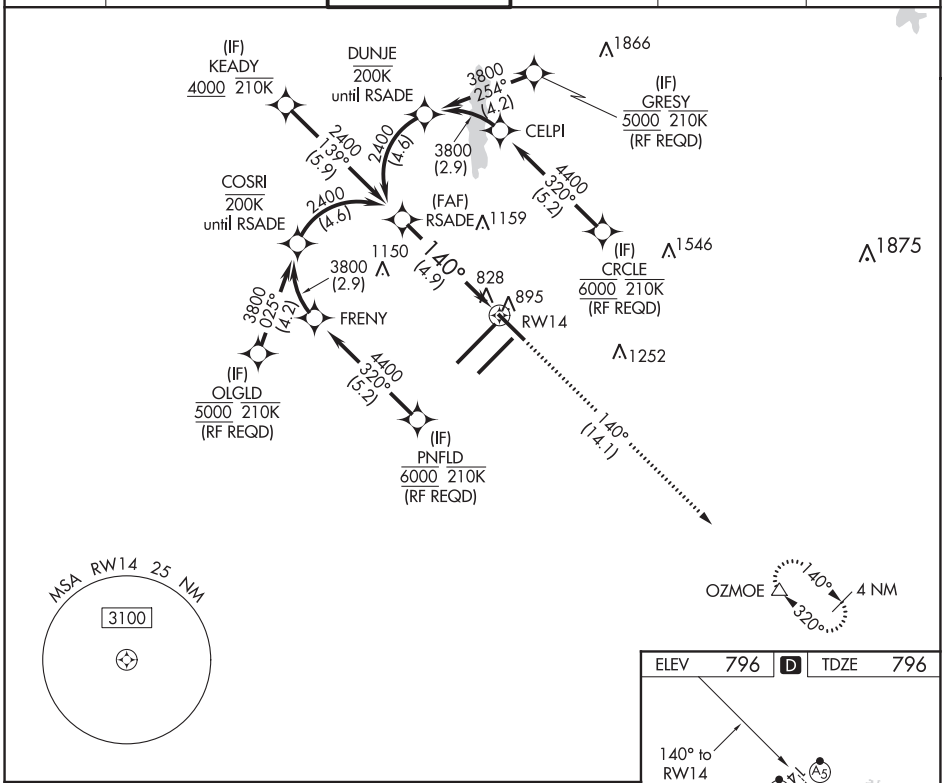
RNP AR APCH.

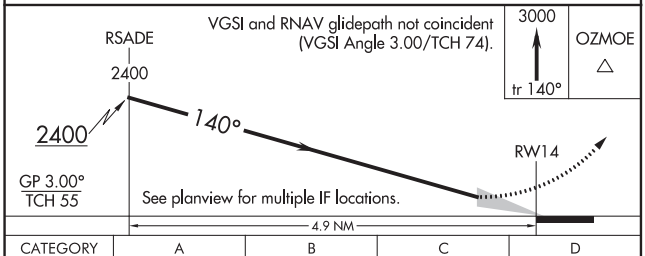
For uncompensated Baro-VNAV systems, procedure NA below -18°C or above 54°C.

MALSR

MISSED APPROACH: Climb to 3000 on track 140° to OZMOE and hold.

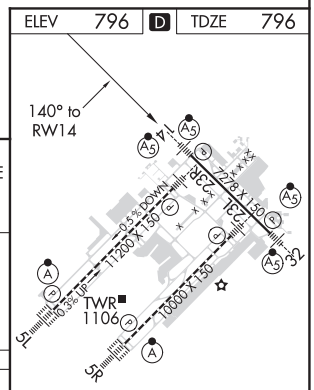
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	





CATEGORY	A	B	C	D
RNP 0.14 DA	1135/26 339 (400-½)			
RNP 0.30 DA	1192/45 396 (400-⅞)			

AUTHORIZATION REQUIRED



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

INDIANAPOLIS, INDIANA | INDIANAPOLIS INTL (IND)

Amdt 2A 20JUN19 | 39°43′N-86°18′W

RNAV (RNP) Z RWY 14

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	10000
230°	TDZE	790
	Apt Elev	796

RNAV (RNP) Z RWY 23L
INDIANAPOLIS INTL (IND)

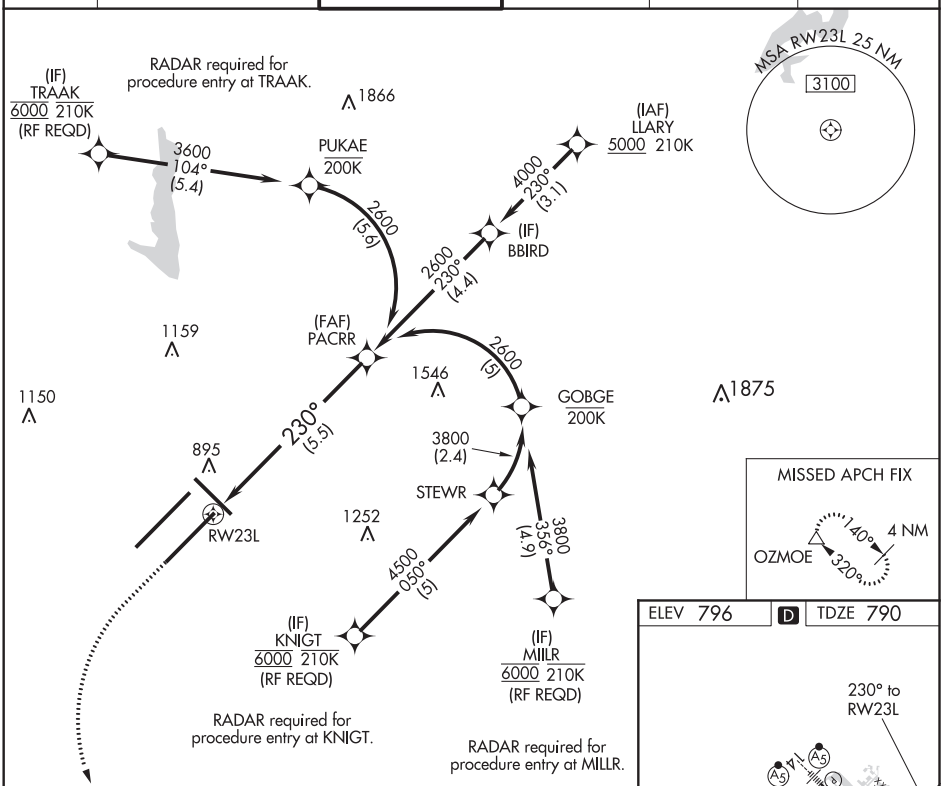
RNP AR APCH.

For uncompensated Baro-VNAV systems, procedure NA below -18°C or above 54°C. Simultaneous approach authorized for arrivals from LLARY only. GPS required.

MALSR

MISSED APPROACH: Climb to 1500, then climbing left turn to 3000 direct OZMOE and hold.

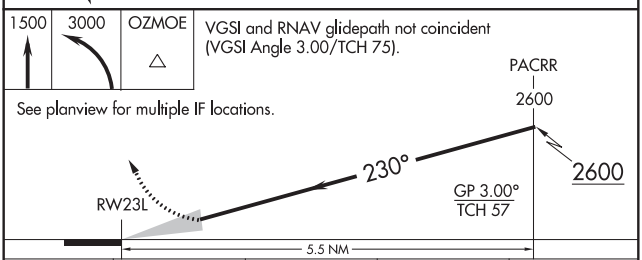
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



1500	3000	OZMOE

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

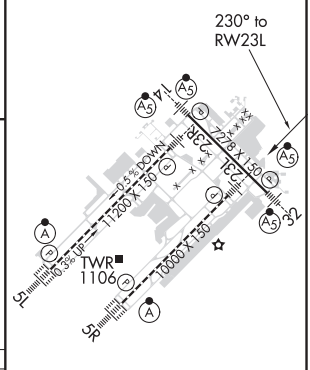
See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.30 DA	1163/40	373 (400-¾)		

AUTHORIZATION REQUIRED

ELEV 796 | D | TDZE 790



HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	11200
230°	TDZE	783
	Apt Elev	796

RNAV (RNP) Z RWY 23R

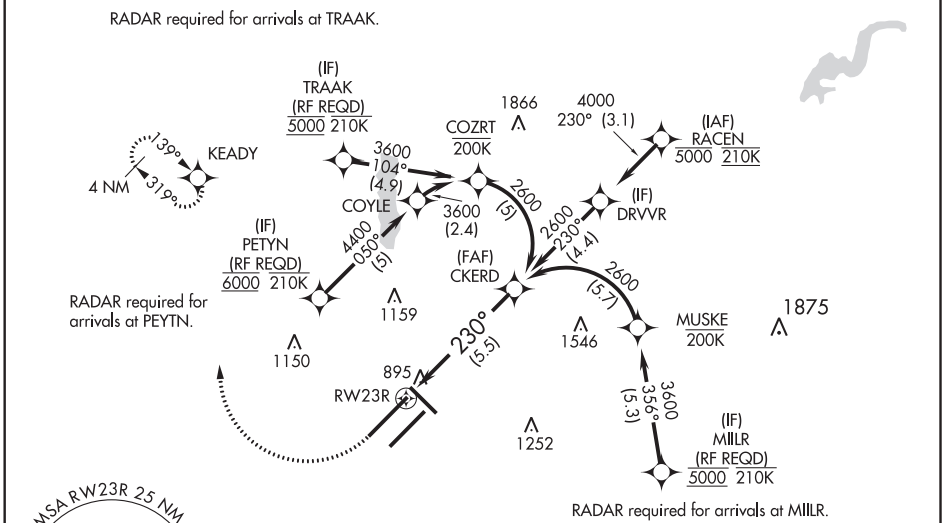
INDIANAPOLIS INTL (IND)

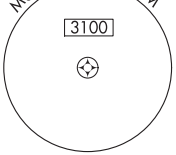
For uncompensated Baro-VNAV systems, procedure NA below -18°C (0°F) or above 54°C (130°F). GPS Required. For inoperative ALS, increase RNP 0.15 all Cats visibility to RVR 6000 and increase RNP 0.30 all Cats visibility to 1⅜ SM. Simultaneous approach authorized.

MALSR

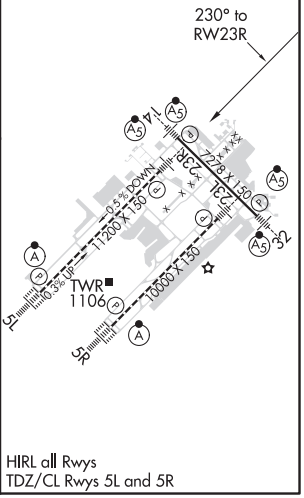
MISSED APPROACH: Climb to 1200 then climbing right turn to 3000 direct KEADY and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	





ELEV	796	D	TDZE	783

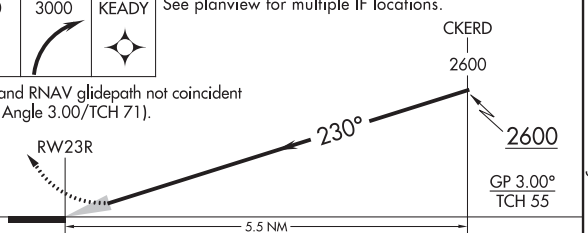


HIRL all Rwys
TDZ/CL Rwys 5L and 5R

1200	3000	KEADY

See planview for multiple IF locations.

VGSI and RNAV glidepath not coincident
(VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
RNP 0.15 DA	1147/40 364 (400-¾)			
RNP 0.30 DA	1206/50 423 (500-1)			

AUTHORIZATION REQUIRED

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	7278
320°	TDZE	793
	Apt Elev	796

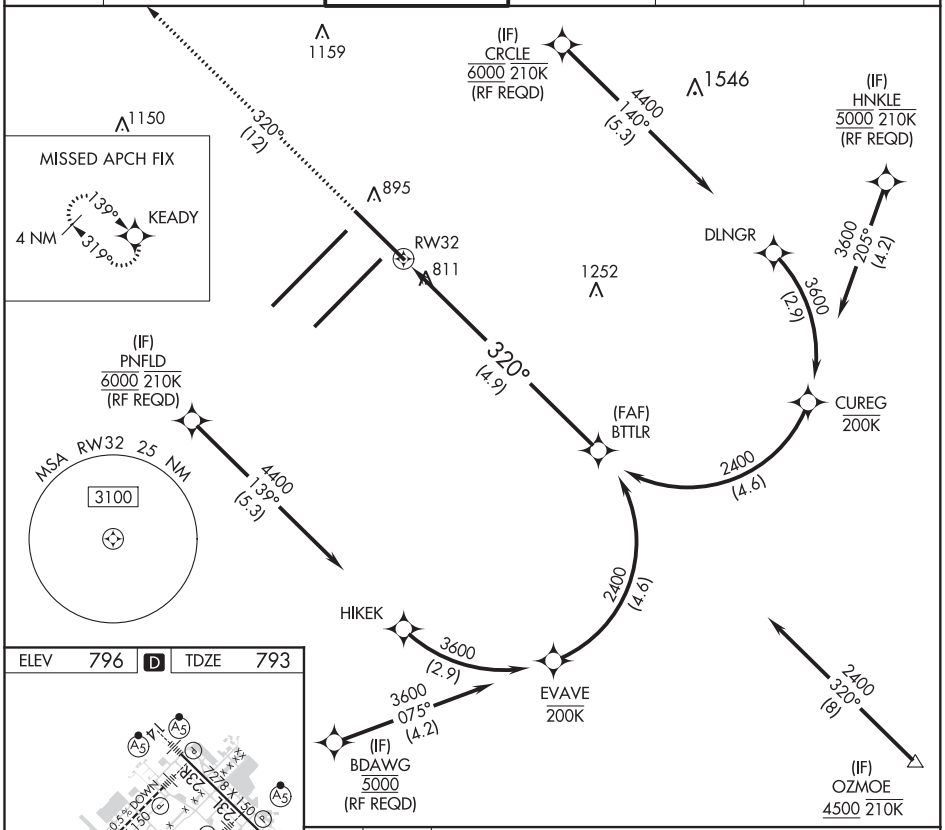
RNAV (RNP) Z RWY 32
INDIANAPOLIS INTL (IND)

For uncompensated Baro-VNAV systems, procedure NA below -18°C (2°F) or above 54°C (130°F). GPS required.

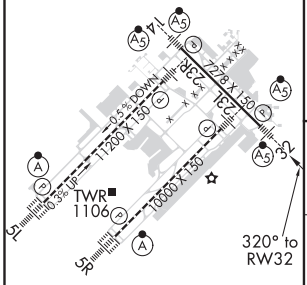
MALSR

MISSED APPROACH: Climb to 3000 on track 320° to KEADY and hold.

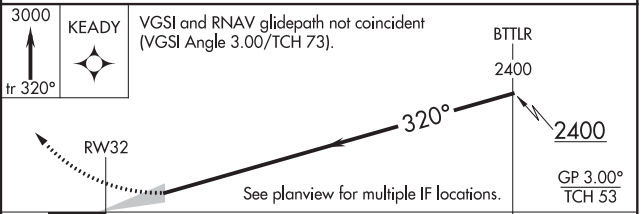
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV	796	D	TDZE	793



HIRL all Rwys
TDZ/CL Rwys 5L and 5R



CATEGORY	A	B	C	D
RNP 0.19 DA	1134/30 341 (400-⅝)			
RNP 0.30 DA	1196/45 403 (400-⅞)			

AUTHORIZATION REQUIRED

EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA — AL-203 (FAA) — 20310

WAAS CH 45706 W05A	APP CRS 050°	Rwy ldg 11200 TDZE 747 Apt Elev 796

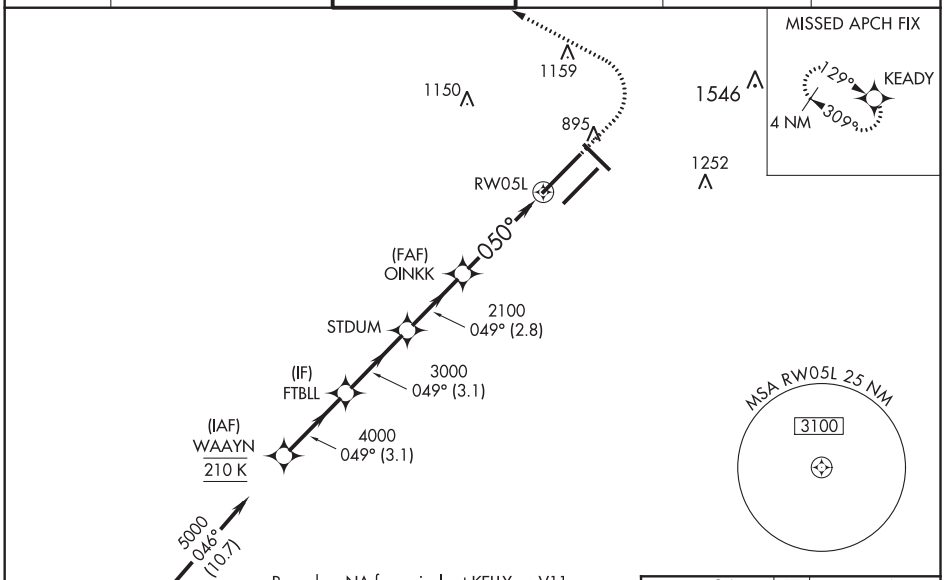
RNAV (GPS) Y RWY 5L
INDIANAPOLIS INTL (IND)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inoperative ALS, increase LNAV/VNAV all Cats visibility to 1¼ SM and increase LNAV Cat C/D visibility to 1⅜ SM.

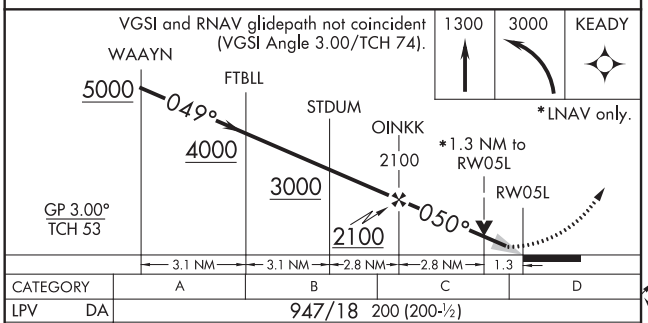
ALSF-2

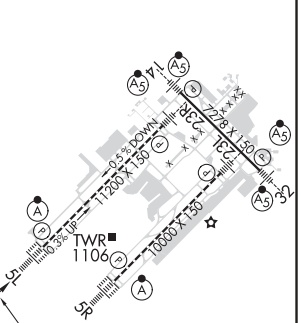
MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct KEADY and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796 | D | TDZE 747





CATEGORY	A	B	C	D
LPV DA	947/18 200 (200-½)			
LNAV/VNAV DA	1136/45 389 (400-⅞)			
LNAV MDA	1220/24 473 (500-½)		1220/50 473 (500-1)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

INDIANAPOLIS, INDIANA
Amdt 4A 17AUG17

39°43′N-86°18′W

INDIANAPOLIS INTL (IND)
RNAV (GPS) Y RWY 5L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 50306 W05B	APP CRS 050°	Rwy ldg 10000 TDZE 791 Apt Elev 796

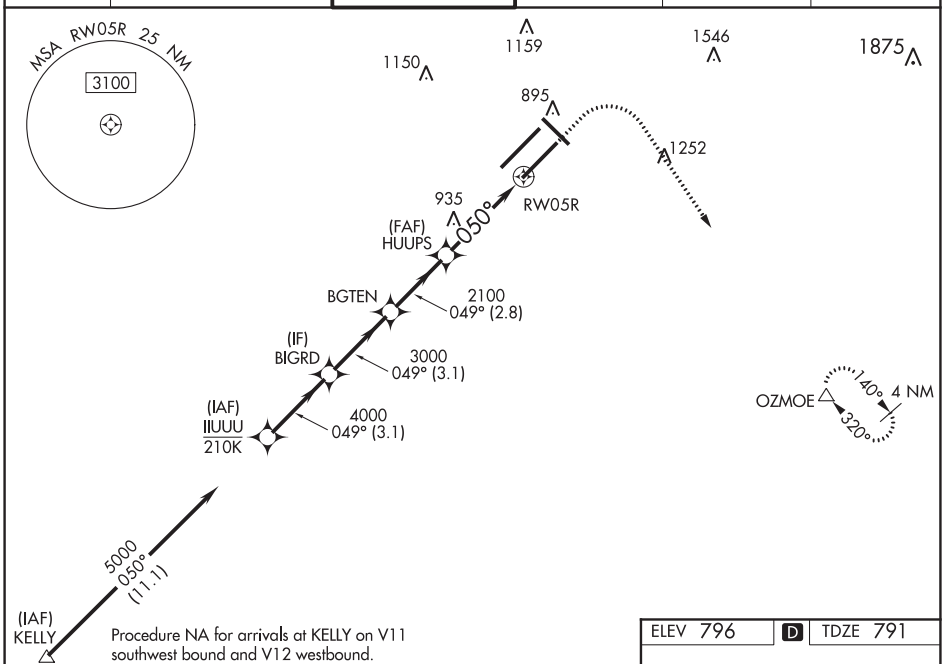
RNAV (GPS) Y RWY 5R
INDIANAPOLIS INTL (IND)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

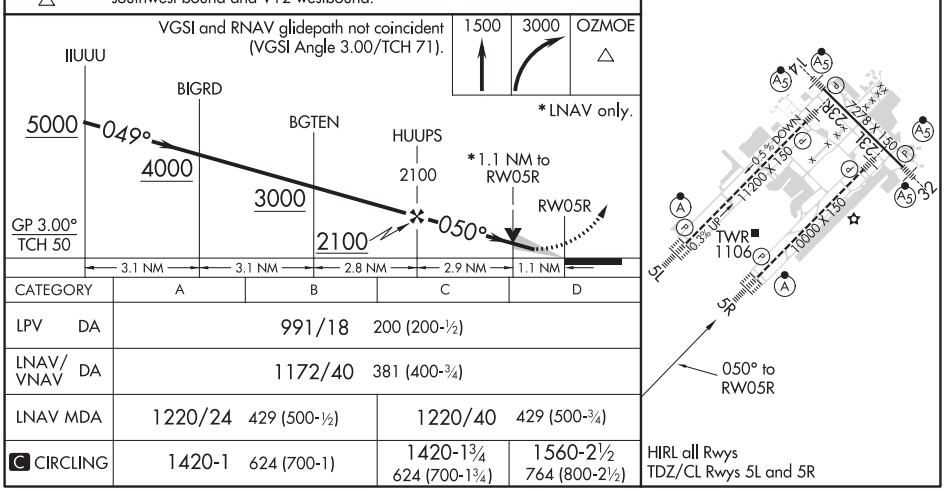
ALSF-2

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct OZMOE and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



Procedure NA for arrivals at KELLY on V11 southwest bound and V12 westbound.



CATEGORY	A	B	C	D
LPV DA	991/18 200 (200-½)			
LNAV/VNAV DA	1172/40 381 (400-¾)			
LNAV MDA	1220/24 429 (500-½)		1220/40 429 (500-¾)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

INDIANAPOLIS, INDIANA

AL-203 (FAA)

20310

RNAV (GPS) Y RWY 14
INDIANAPOLIS INTL (IND)

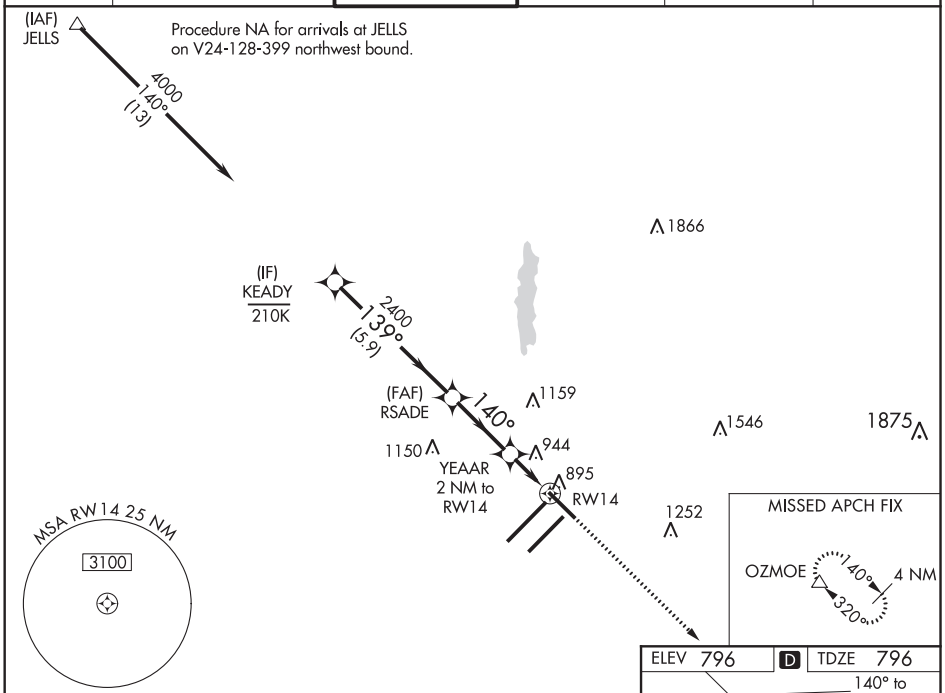
WAAS CH 42602 W14A	APP CRS 140°	Rwy ldg 7278 TDZE 796 Apt Elev 796

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.
**RVR 1800 authorized with use of FD or AP or HUD to DA.

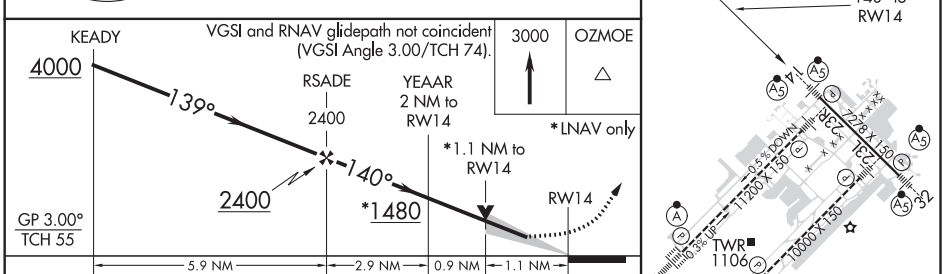
MALSR

MISSED APPROACH: Climb to 3000 direct OZMOE and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796	D	TDZE 796



CATEGORY	A	B	C	D
LPV DA	**996/24 200 (200-½)			
LNAV/VNAV DA	1092/24 296 (300-½)			
LNAV MDA	1200/24 404 (500-½)		1200/40 404 (500-¾)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86406 W23A	APP CRS 230°	Rwy ldg 10000 TDZE 790 Apt Elev 796

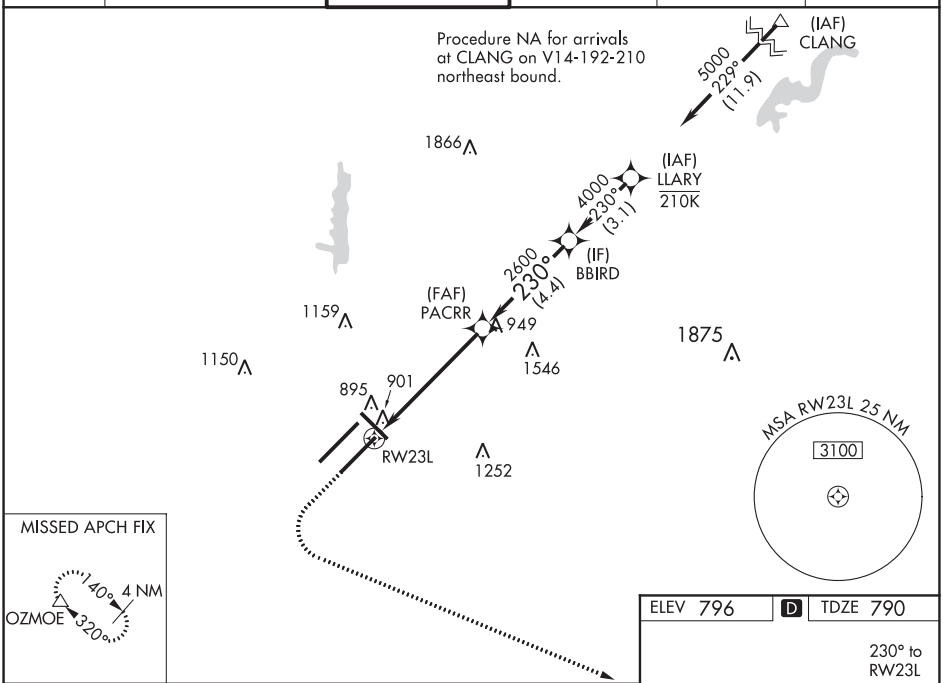
RNAV (GPS) Y RWY 23L
INDIANAPOLIS INTL (IND)

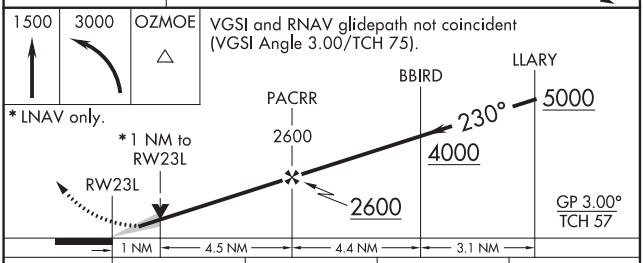
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Simultaneous approach authorized. For inop MALSR, increase LNAV/VNAV all Cats visibility to RVR 4500; increase LNAV Cats C/D visibility to RVR 5500. **RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

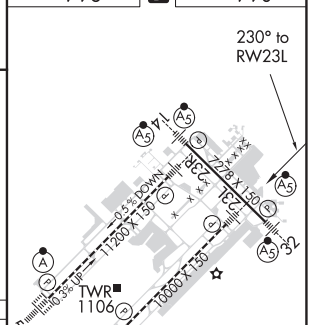
MISSED APPROACH: Climb to 1500 then climbing left turn to 3000 direct OZMOE and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	





ELEV 796 | D | TDZE 790



CATEGORY	A	B	C	D
LPV DA	**990/24 200 (200-½)			
LNAV/VNAV DA	1078/24 288 (300-½)			
LNAV MDA	1160/24 370 (400-½)		1160/35 370 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 77706 W23B	APP CRS 230°	Rwy ldg 11200 TDZE 783 Apt Elev 796

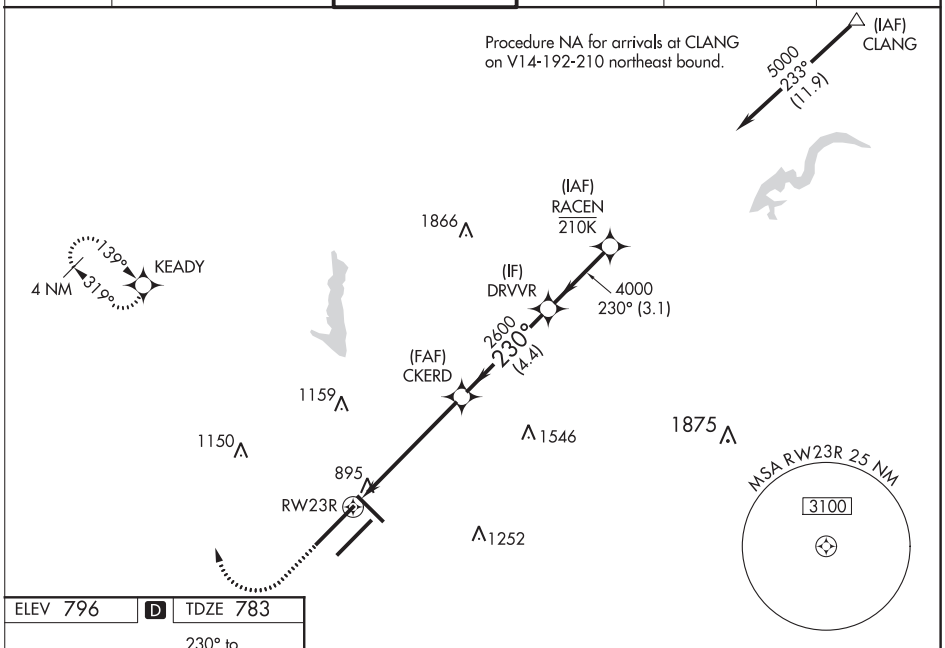
RNAV (GPS) Y RWY 23R
INDIANAPOLIS INTL (IND)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inoperative ALS, increase LNAV Cat C/D visibility to RVR 6000. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.
**RVR 1800 authorized with use of FD or AP or HUD to DA.

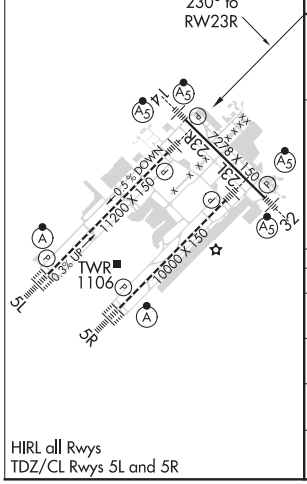
MALSR

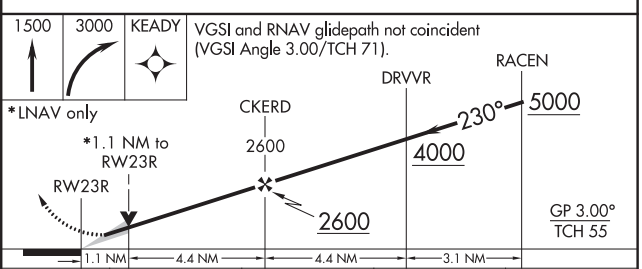
MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct KEADY and hold.

D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796 D TDZE 783





CATEGORY	A	B	C	D
LPV DA	**983/24 200 (200-½)			
LNAV/VNAV DA	1165/40 382 (400-¾)			
LNAV MDA	1200/24 417 (500-½)		1200/40 417 (500-¾)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

HIRL all Rwys
TDZ/CL Rwys 5L and 5R

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RNAV (GPS) Y RWY 32
INDIANAPOLIS INTL (IND)

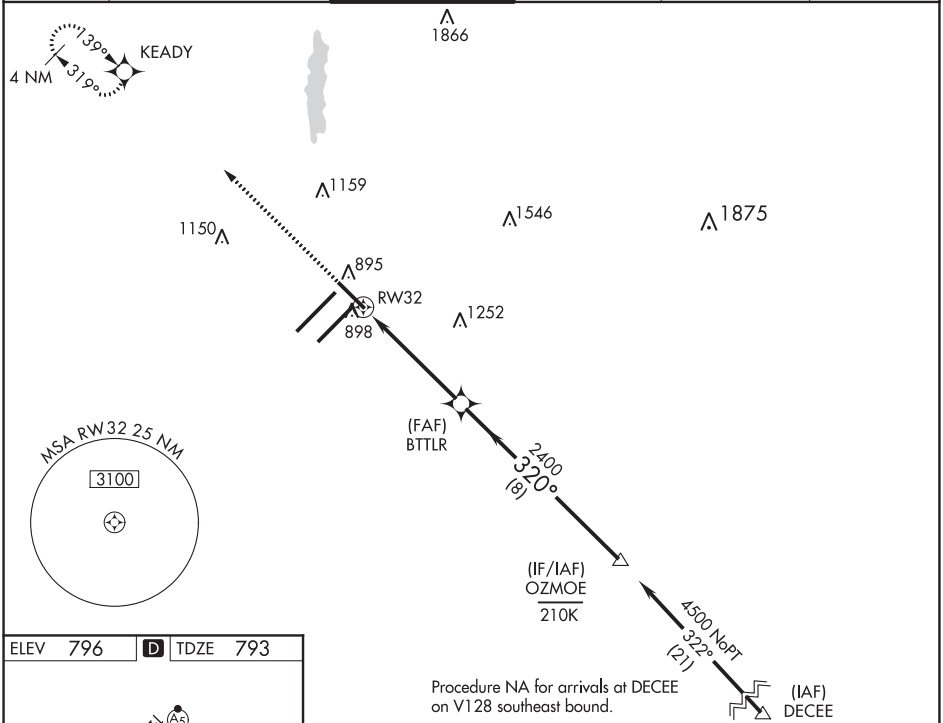
WAAS CH 62802 W32A	APP CRS 320°	Rwy ldg 7278 TDZE 793 Apt Elev 796

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. **RVR 1800 authorized with use of FD or AP or HUD to DA.

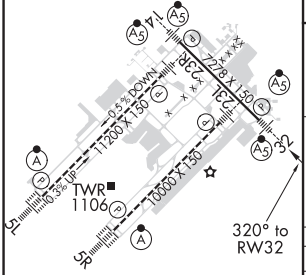
MALSR

MISSED APPROACH: Climb to 3000 direct KEADY and hold.

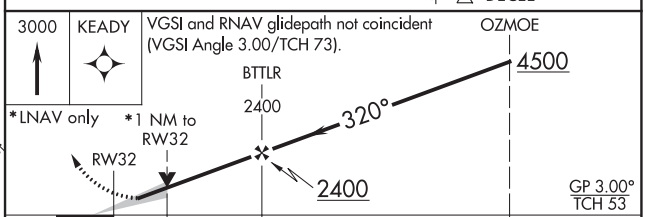
D-ATIS	INDIANAPOLIS APP CON	INDY TOWER	GND CON	CLNC DEL	CPDLC
134.25	128.175 317.8	120.9 257.8	121.9	128.75 257.8	



ELEV 796 | D | TDZE 793



HIRL all Rwys
TDZ/CL Rwys 5L and 5R



CATEGORY	A	B	C	D
LPV DA	** 993/24 200 (200-½)			
LNAV/VNAV DA	1069/24 276 (300-½)			
LNAV MDA	1160/24 367 (400-½)		1160/35 367 (400-⅝)	
C CIRCLING	1420-1 624 (700-1)		1420-1¾ 624 (700-1¾)	1560-2½ 764 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

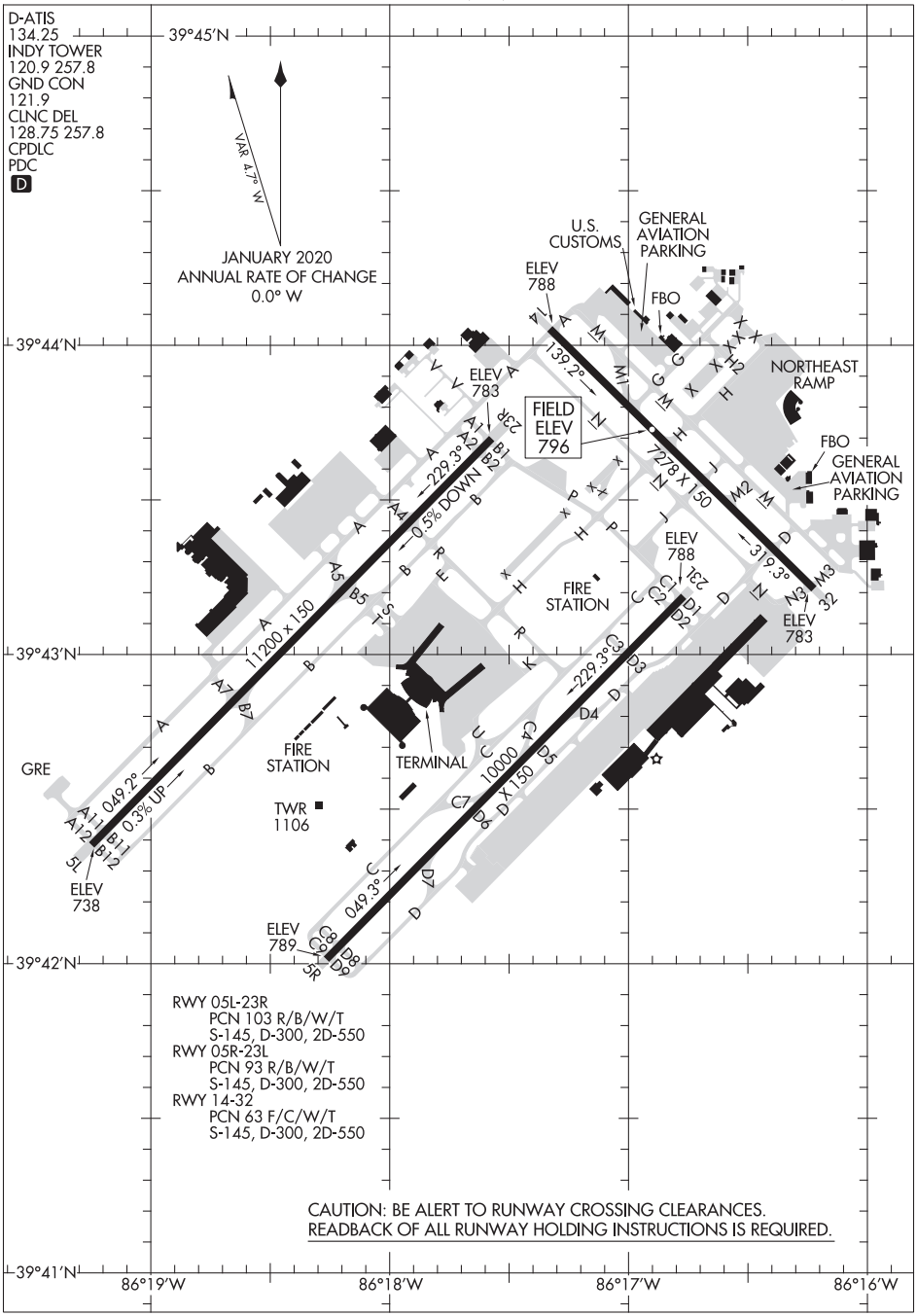
20366

AIRPORT DIAGRAM

AL-203 (FAA)

INDIANAPOLIS INTL (IND)

INDIANAPOLIS, INDIANA



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20366
INDIANAPOLIS, INDIANA
INDIANAPOLIS INTL (IND)

D-ATIS 134.25
CLNC DEL
128.75 257.8
CPDLC
GND CON
121.9
INDY TOWER
120.9 257.8
INDIANAPOLIS DEP CON
124.95 317.8 (EAST)
119.05 317.8 (WEST)

TOP ALTITUDE: ASSIGNED BY ATC

BRICKYARD
116.3 VHP
Chan 110

LOCALIZER
111.75 I-UZK
Chan 54(Y)

I-OQV
0.3

050°
070°
050°

R-174
28

SNEVA RADAR
N39°21.43′
W86°18.96′

R-098

TERRE HAUTE
115.3 TTH
Chan 100

I-UZK
2.6

230°
230°
245°
230°
230°
215°
230°
210°

I-FVJ
2.3

LOCALIZER
111.15 I-OQV
Chan 48(Y)

47

R-113

HOOSIER
110.2 OOM
Chan 39

FOYTT RADAR
N39°02.50′
W86°16.85′

LOCALIZER
111.15 I-FVJ
Chan 48(Y)

6000
174°
75

R-3401B

R-3401A

DAWNN
N38°34.10′
W86°13.72′
10000
(For LOUISVILLE Transition)

10000
*3000
131°
(41)

6000
*2300
182°
(40)

R-311

R-002

LOUISVILLE
114.8 IIU
Chan 95
N38°06.21′-W85°34.65′
L-26-27, H-5-10

MYSTIC
108.2 MYS
N37°53.64′-W86°14.67′
L-16, H-5-10

TAKEOFF MINIMUMS:
Rwys 5L/R, 14, 23L/R, 32: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

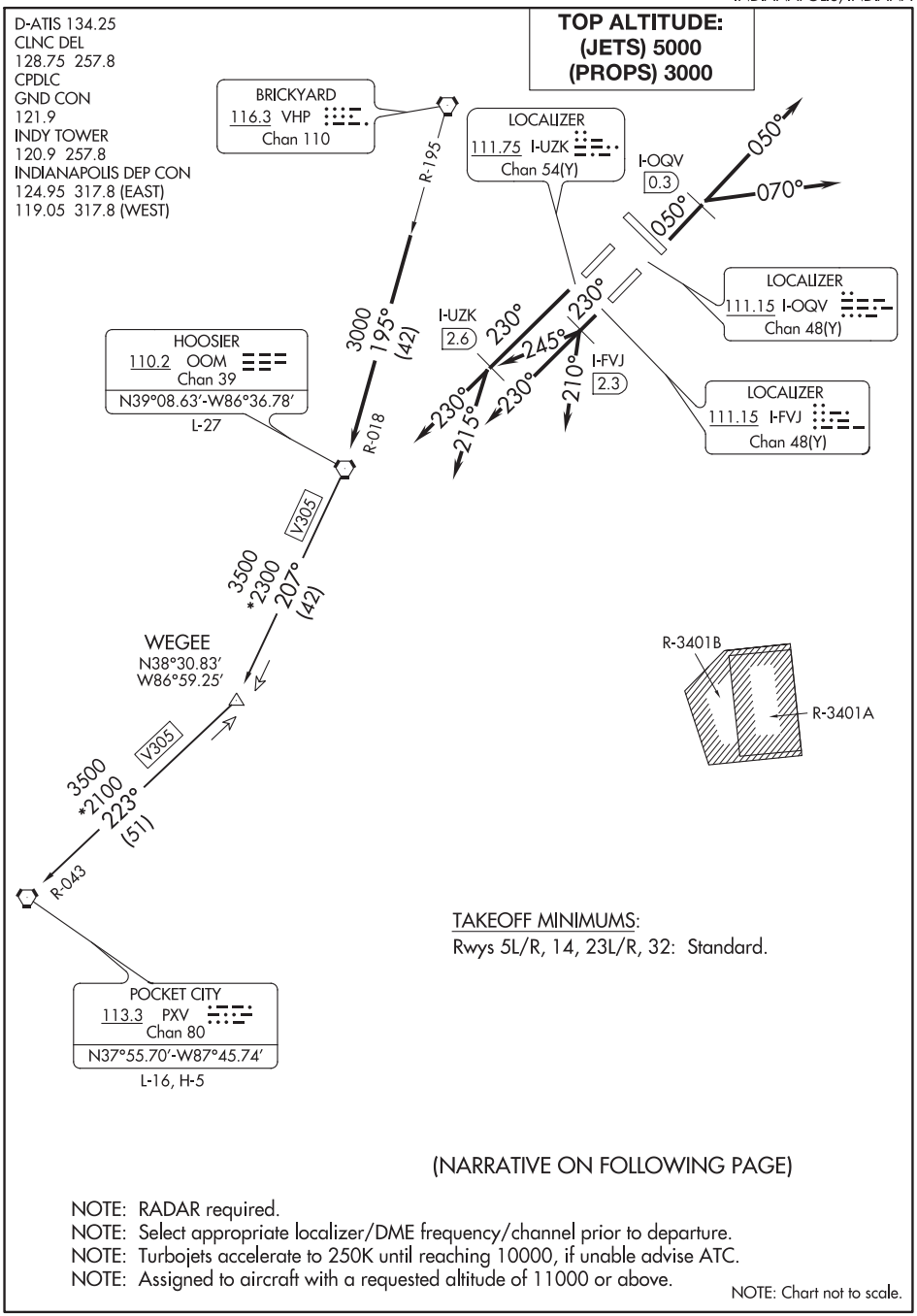
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 23R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215° to assigned altitude. Thence....
TAKEOFF RWY 23L (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245° to assigned altitude. Thence....
TAKEOFF RWY 5R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070° to assigned altitude. Thence....
TAKEOFF ALL OTHER RWYS (TURBOJETS ONLY): Climb on assigned heading to assigned altitude. Thence....
TAKEOFF ALL RWYS (PROPELLER ONLY): Climb on assigned heading to assigned altitude. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

EC-2, 25 FEB 2021 to 22 APR 2021



TAKEOFF MINIMUMS:
Rwys 5L/R, 14, 23L/R, 32: Standard.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070°. Maintain 5000. Thence....
TAKEOFF RWY 23R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215°. Maintain 5000. Thence....
TAKEOFF RWY 23L (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245°. Maintain 5000. Thence....
TAKEOFF ALL OTHER RWYS (TURBOJETS ONLY): Climb on assigned heading. Maintain 5000. Thence....
TAKEOFF ALL RWYS (PROPELLER ONLY): Climb on assigned heading. Maintain 3000. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.

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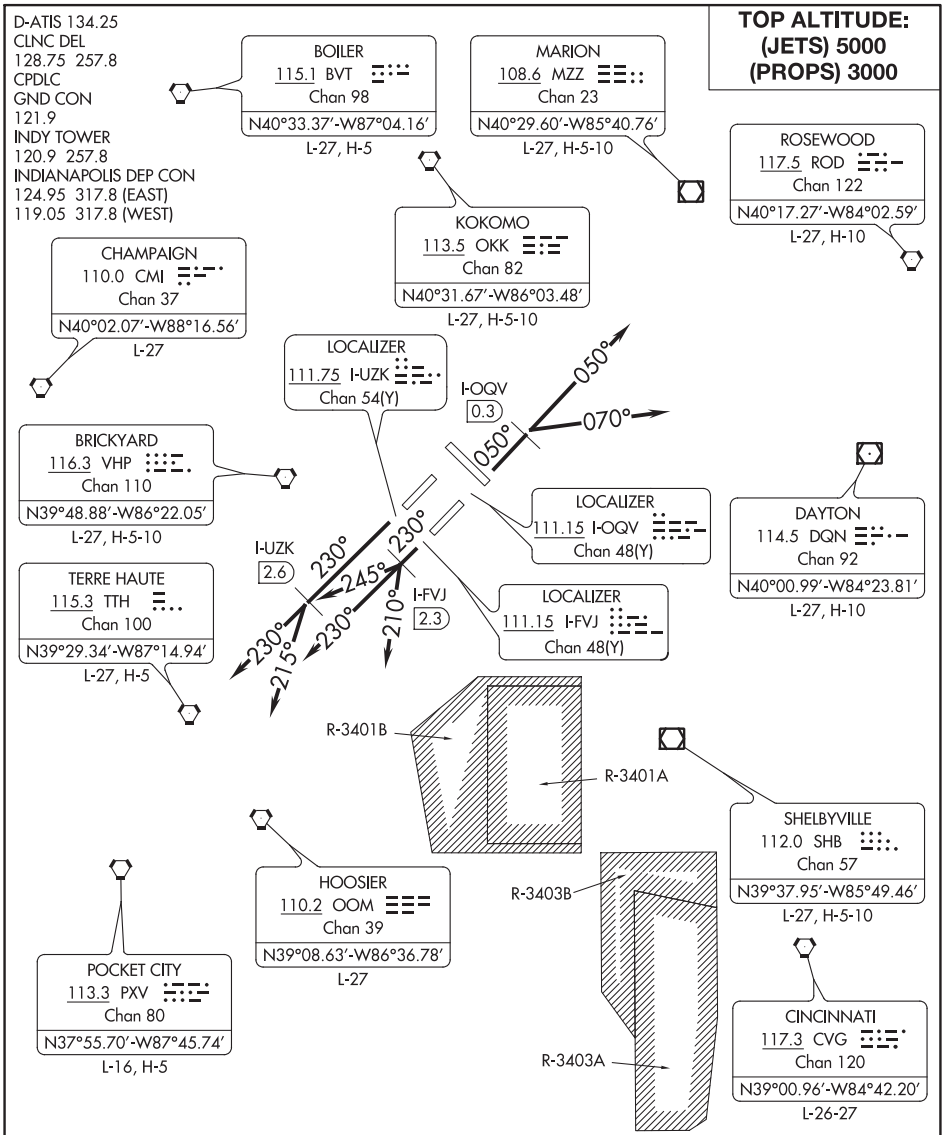


TAKEOFF MINIMUMS:
Rwys 5L/R, 14, 23L/R, 32: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Jet aircraft accelerate to 250K until reaching 10000. If unable advise ATC.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 23R (JETS ONLY-DME REQUIRED): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215°. Maintain 5000. Thence . . . .
TAKEOFF RUNWAY 23L (JETS ONLY-DME REQUIRED): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245°. Maintain 5000. Thence . . . .
TAKEOFF RUNWAY 5R (JETS ONLY-DME REQUIRED): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070°. Maintain 5000. Thence . . . .
TAKEOFF ALL OTHER RUNWAYS (JETS ONLY): Climb on assigned heading. Maintain 5000. Thence . . . .
TAKEOFF ALL RUNWAYS (PROPS ONLY): Climb on assigned heading. Maintain 3000. Thence . . . .

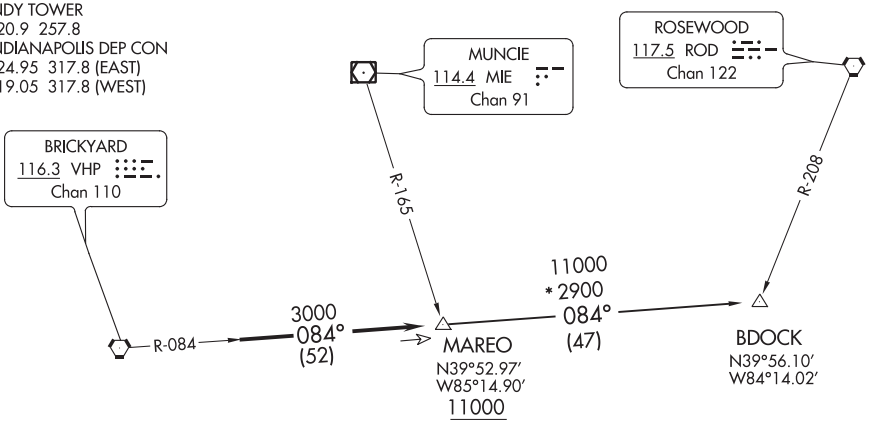
. . . .vector to assigned route/fix. Expect clearance to filed altitude ten minutes after departure.

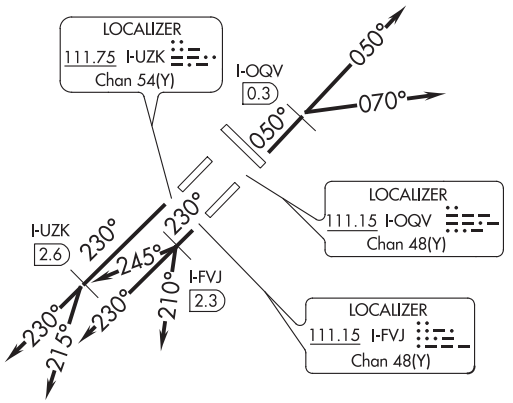
EC-2, 25 FEB 2021 to 22 APR 2021

D-ATIS
134.25
CLNC DEL
128.75 257.8
CPDLC
GND CON
121.9
INDY TOWER
120.9 257.8
INDIANAPOLIS DEP CON
124.95 317.8 (EAST)
119.05 317.8 (WEST)

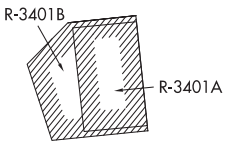
TOP ALTITUDE:
(JETS) 5000
(PROPS) 3000

TAKEOFF MINIMUMS
Rwys 5L/R, 14, 23L/R, 32: Standard.





NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070°. Maintain 5000. Thence . . . .
TAKEOFF RWY 23R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215°. Maintain 5000. Thence . . . .
TAKEOFF RWY 23L (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245°. Maintain 5000. Thence . . . .
TAKEOFF ALL OTHER RWYS (TURBOJETS ONLY): Climb on assigned heading. Maintain 5000. Thence . . . .
TAKEOFF ALL RWYS (PROPELLER ONLY): Climb on assigned heading. Maintain 3000. Thence . . . .
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

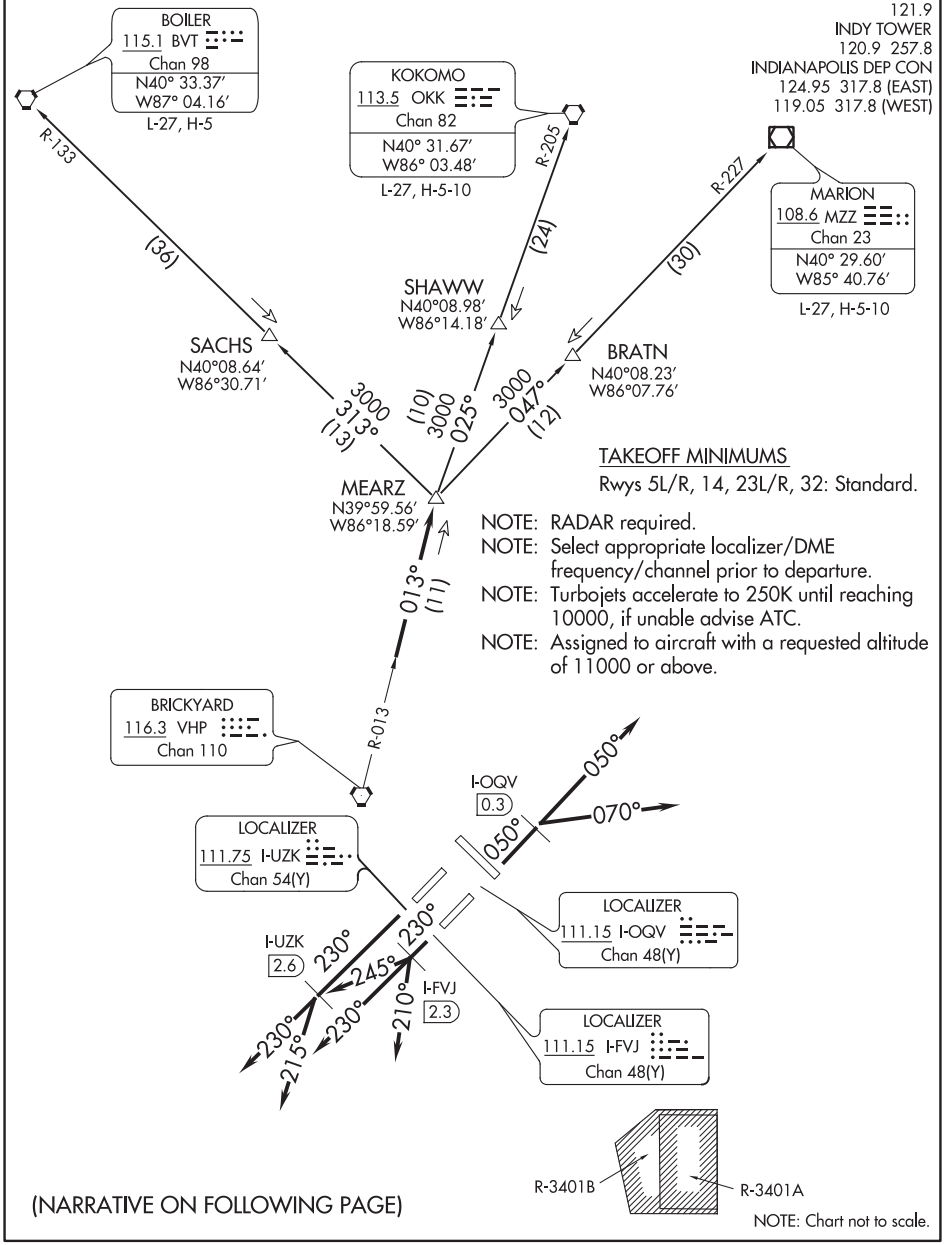
BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

EC-2, 25 FEB 2021 to 22 APR 2021

MEARZ SIX DEPARTURE

TOP ALTITUDE:
(JETS) 5000
(PROPS) 3000

D-ATIS 134.25
CLNC DEL
128.75 257.8
CPDLC
GND CON
121.9
INDY TOWER
120.9 257.8
INDIANAPOLIS DEP CON
124.95 317.8 (EAST)
119.05 317.8 (WEST)



TAKEOFF MINIMUMS

Rwys 5L/R, 14, 23L/R, 32: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070°. Maintain 5000. Thence....

TAKEOFF RWY 23R (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215°. Maintain 5000. Thence....

TAKEOFF RWY 23L (TURBOJETS ONLY-DME REQUIRED): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245°. Maintain 5000. Thence....

TAKEOFF ALL OTHER RWYS (TURBOJETS ONLY): Climb on assigned heading. Maintain 5000. Thence....

TAKEOFF ALL RWYS (PROPELLER ONLY): Climb on assigned heading. Maintain 3000. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

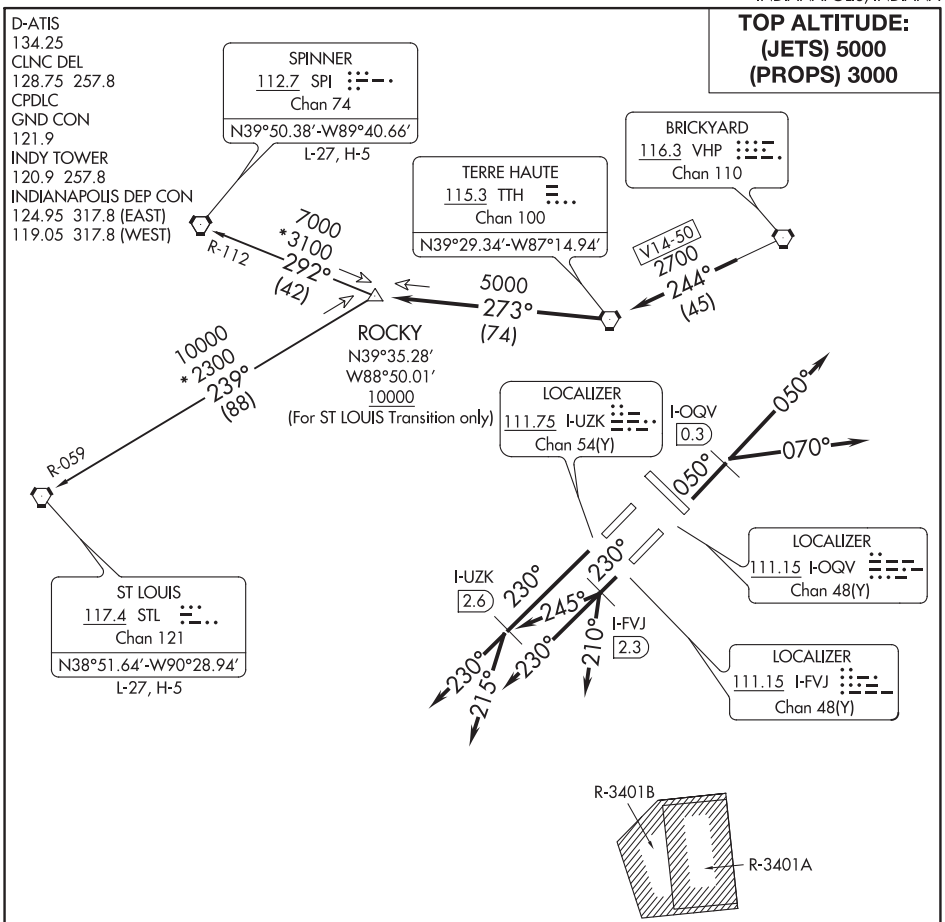
....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.

KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.

MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

EC-2, 25 FEB 2021 to 22 APR 2021



TAKEOFF MINIMUMS
Rwys 5L/R, 14, 23L/R, 32: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 5R (TURBOJETS ONLY-DME Required): Climb on heading 050° to I-OQV 0.3 DME, then on assigned heading 050° or 070°. Maintain 5000. Thence . . . .

TAKEOFF RWY 23R (TURBOJETS ONLY-DME Required): Climb on heading 230° to I-UZK 2.6 DME, then on assigned heading 230° or 215°. Maintain 5000. Thence . . . .

TAKEOFF RWY 23L (TURBOJETS ONLY-DME Required): Climb on heading 230° to I-FVJ 2.3 DME, then on assigned heading 210°, 230°, or 245°. Maintain 5000. Thence . . . .

TAKEOFF ALL OTHER RUNWAYS (TURBOJETS ONLY): Climb on assigned heading. Maintain 5000. Thence . . . .

TAKEOFF ALL RUNWAYS (PROPELLER ONLY): Climb on assigned heading. Maintain 3000. Thence . . . .

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3848
149°	TDZE	805
	Apt Elev	811

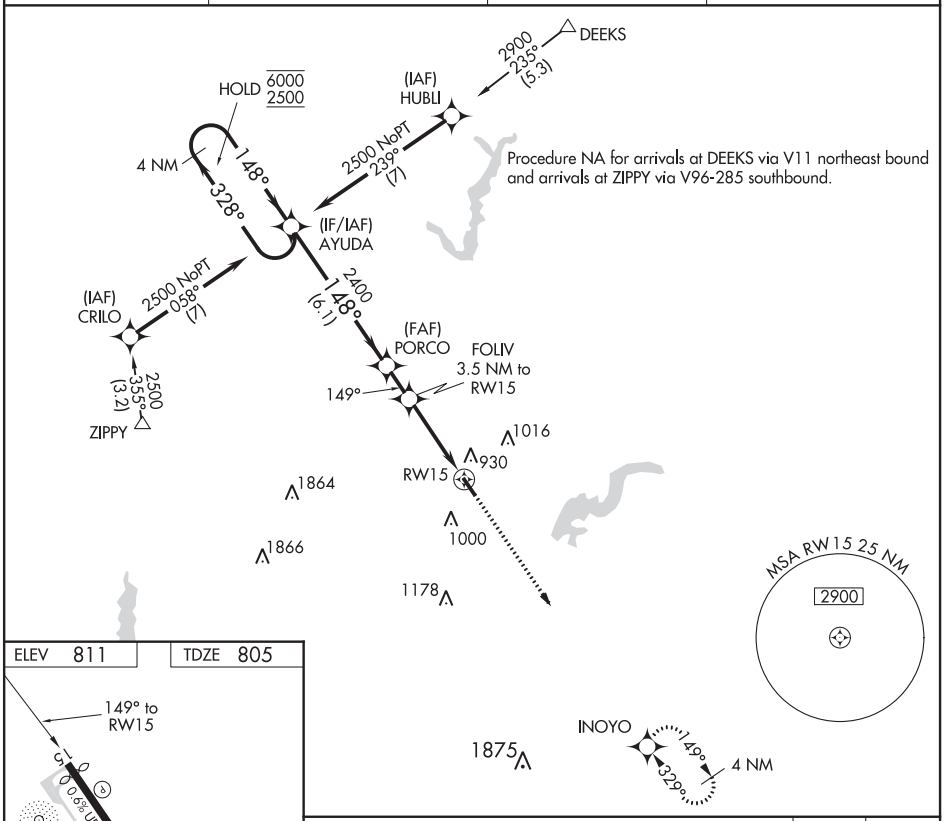
RNAV (GPS) RWY 15
INDIANAPOLIS METROPOLITAN (UMP)

RNP APCH.

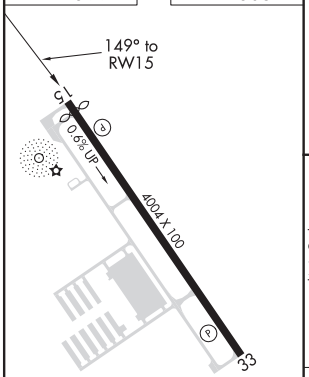
Helicopter visibility reduction below ¾ SM NA. VDP NA when using Indianapolis Intl altimeter setting. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet and LNAV Cat C visibility ¼ SM.

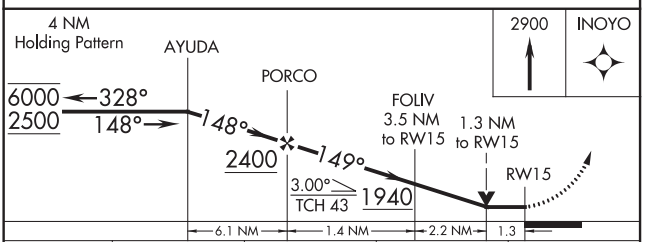
MISSED APPROACH: Climb to 2900 direct INOYO and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
119.375	127.15 317.8	121.625	123.0 (CTAF) L



ELEV 811 | TDZE 805





CATEGORY	A	B	C	D
LNAV MDA	1240-1 435 (500-1)		1240-1¼ 435 (500-1¼)	NA
C CIRCLING	1320-1 509 (600-1)	1340-1 529 (600-1)	1340-1½ 529 (600-1½)	NA

MIRL Rwy 15-33 L
REIL Rwy 15 and 33 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA

AL-5902 (FAA)

20086

APP CRS	Rwy ldg	4004
329°	TDZE	811
	Apt Elev	811

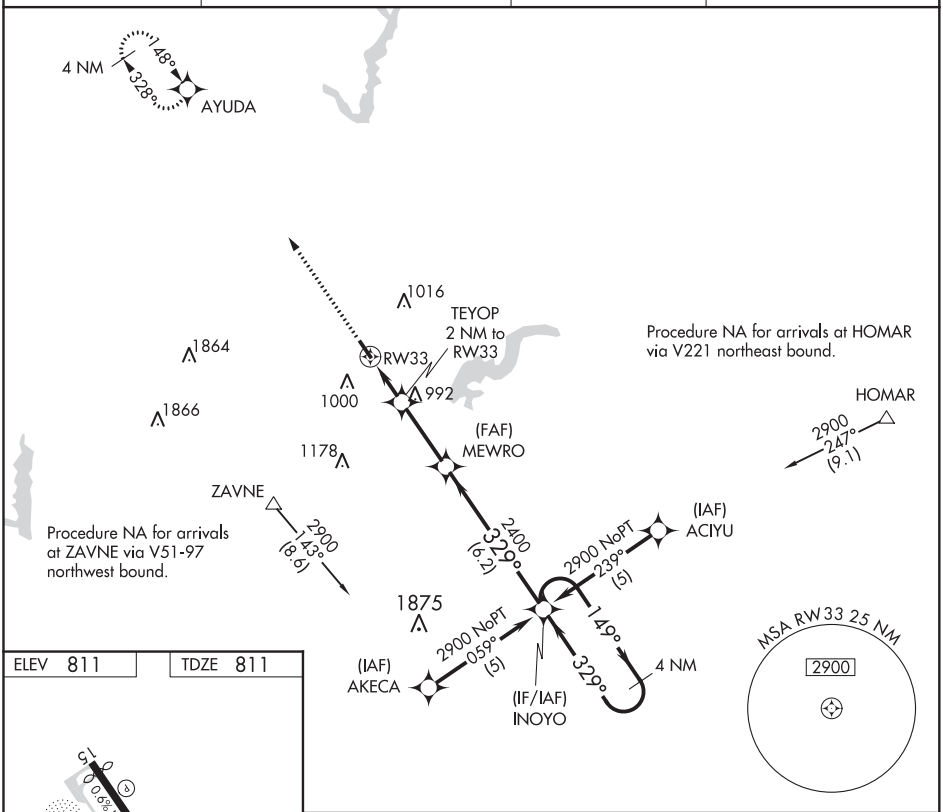
RNAV (GPS) RWY 33
INDIANAPOLIS METROPOLITAN (UMP)

T NA

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet and LNAV Cat C visibility ¼mile. VDP NA when using Indianapolis Intl altimeter setting. Rwy 33 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct AYUDA and hold.

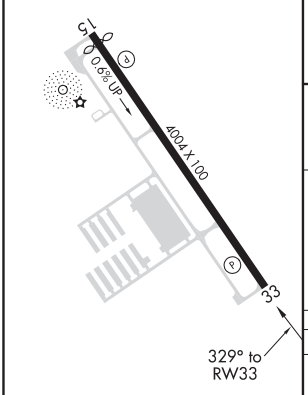
AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
119.375	127.15 317.8	121.625	123.0 (CTAF) L



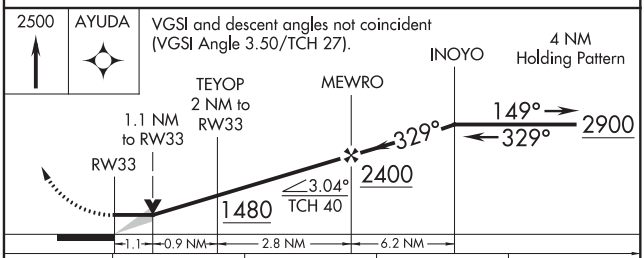
Procedure NA for arrivals at HOMAR via V221 northeast bound.

Procedure NA for arrivals at ZAVNE via V51-97 northwest bound.

ELEV 811 | TDZE 811



MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L



CATEGORY	A	B	C	D
LNAV MDA	1260-1 449 (500-1)		1260-1¼ 449 (500-1¼)	NA
C CIRCLING	1320-1 509 (600-1)	1340-1 529 (600-1)	1340-1½ 529 (600-1½)	NA

INDIANAPOLIS, INDIANA
Amdt 1B 26MAR20

39°56′N-86°03′W

INDIANAPOLIS METROPOLITAN (UMP)
RNAV (GPS) RWY 33

EC-2, 25 FEB 2021 to 22 APR 2021

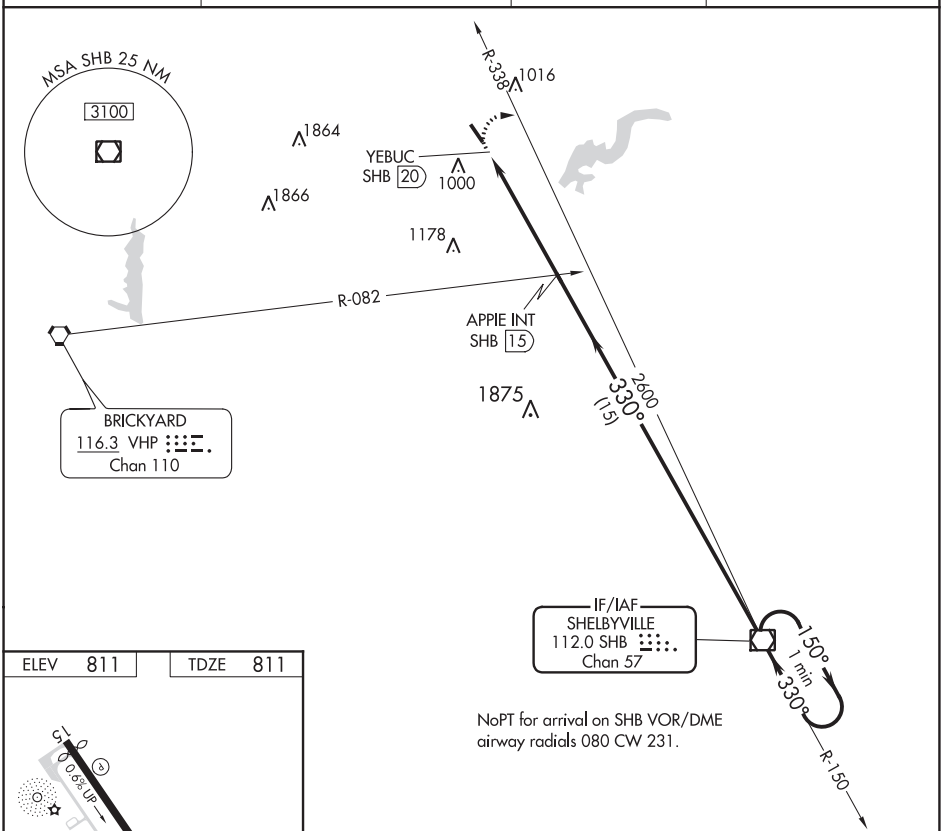
VOR RWY 33
INDIANAPOLIS METROPOLITAN (UMP)

VOR/DME SHB	APP CRS	Rwy ldg	4004
112.0	330°	TDZE	811
Chan 57		Apt Elev	811

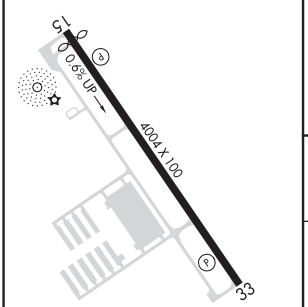
When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet, increase S-33 and Circling Cat C visibility to 1¾. Rwy 33 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climbing right turn to 2600 on SHB VOR/DME R-338 direct SHB VOR/DME and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
119.375	127.15 317.8	121.625	123.0 (CTAF) L

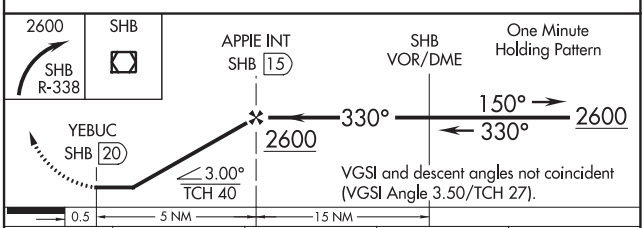


ELEV 811	TDZE 811



MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D
S-33	1340-1	529 (600-1)	1340-1½ 529 (600-1½)	NA
C CIRCLING	1340-1	529 (600-1)	1340-1½ 529 (600-1½)	NA

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EC-2, 25 FEB 2021 to 22 APR 2021

INDIANAPOLIS, INDIANA AL-5902 (FAA) 20254

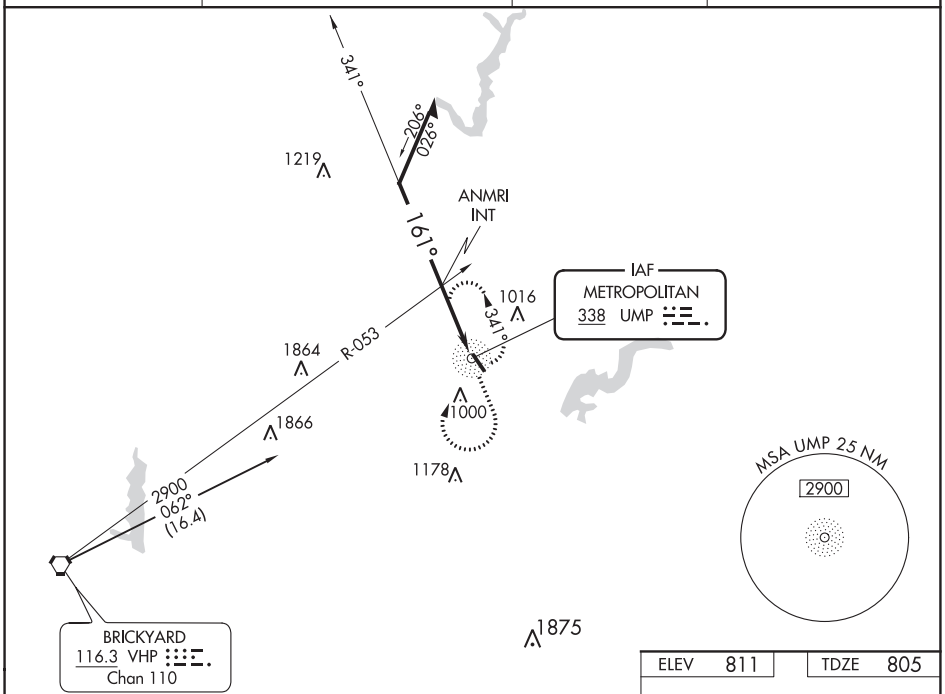
NDB RWY 15
INDIANAPOLIS METROPOLITAN (UMP)

NDB UMP	APP CRS	Rwy ldg	3848
338	161°	TDZE	805
		Apt Elev	811

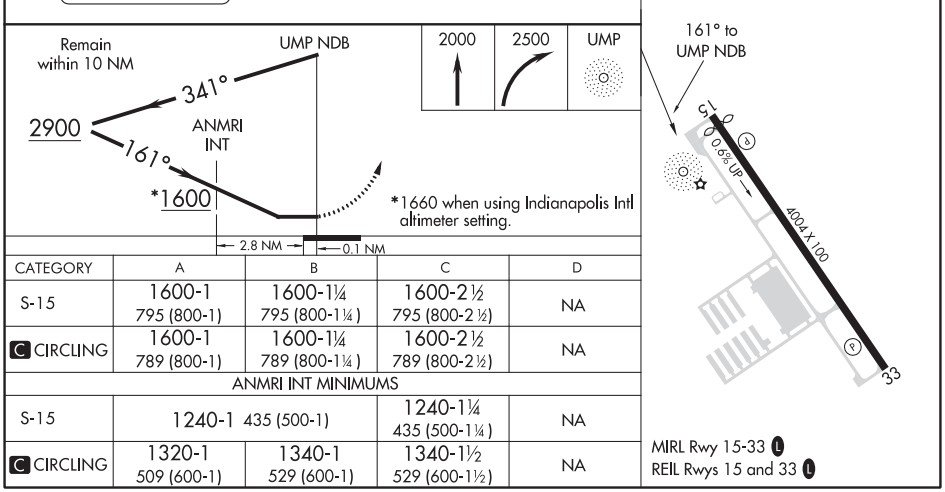
When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet, increase S-15 and Circling Cat C visibility ¼ mile. Rwy 15 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000, then climbing right turn to 2500 direct UMP NDB and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
119.375	127.15 317.8	121.625	123.0 (CTAF) L



ELEV	811	TDZE	805



*1660 when using Indianapolis Intl altimeter setting.

CATEGORY	A	B	C	D
S-15	1600-1 795 (800-1)	1600-1¼ 795 (800-1¼)	1600-2½ 795 (800-2½)	NA
C CIRCLING	1600-1 789 (800-1)	1600-1¼ 789 (800-1¼)	1600-2½ 789 (800-2½)	NA
ANMRI INT MINIMUMS				
S-15	1240-1 435 (500-1)		1240-1¼ 435 (500-1¼)	NA
C CIRCLING	1320-1 509 (600-1)	1340-1 529 (600-1)	1340-1½ 529 (600-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.375
CLNC DEL
121.625
INDIANAPOLIS DEP CON
127.15 317.8

BRICKYARD
116.3 VHP
Chan 110

1400
329°

R-174
28
SNEVA RADAR
N39°21.43′
W86°18.96′

R-098
TERRE HAUTE
115.3 TTH
Chan 100

TAKEOFF MINIMUMS:
Rwy 15: NA-obstacles.
Rwy 33: Standard.

47
R-113
HOOSIER
110.2 OOM
Chan 39

FOYTT RADAR
N39°02.50′
W86°16.85′

6000
174°
75

R-3401B
R-3401A

DAWNN
N38°34.10′
W86°13.72′
10000
(For LOUISVILLE Transition)

10000
*3000
131°
(41)
R-311

6000
*2300
182°
(40)
R-002

LOUISVILLE
114.8 IIU
Chan 95
N38°06.21′-W85°34.65′
L-26-27, H-5-10

MYSTIC
108.2 MYS
N37°53.64′-W86°14.67′
L-16, H-5-10

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

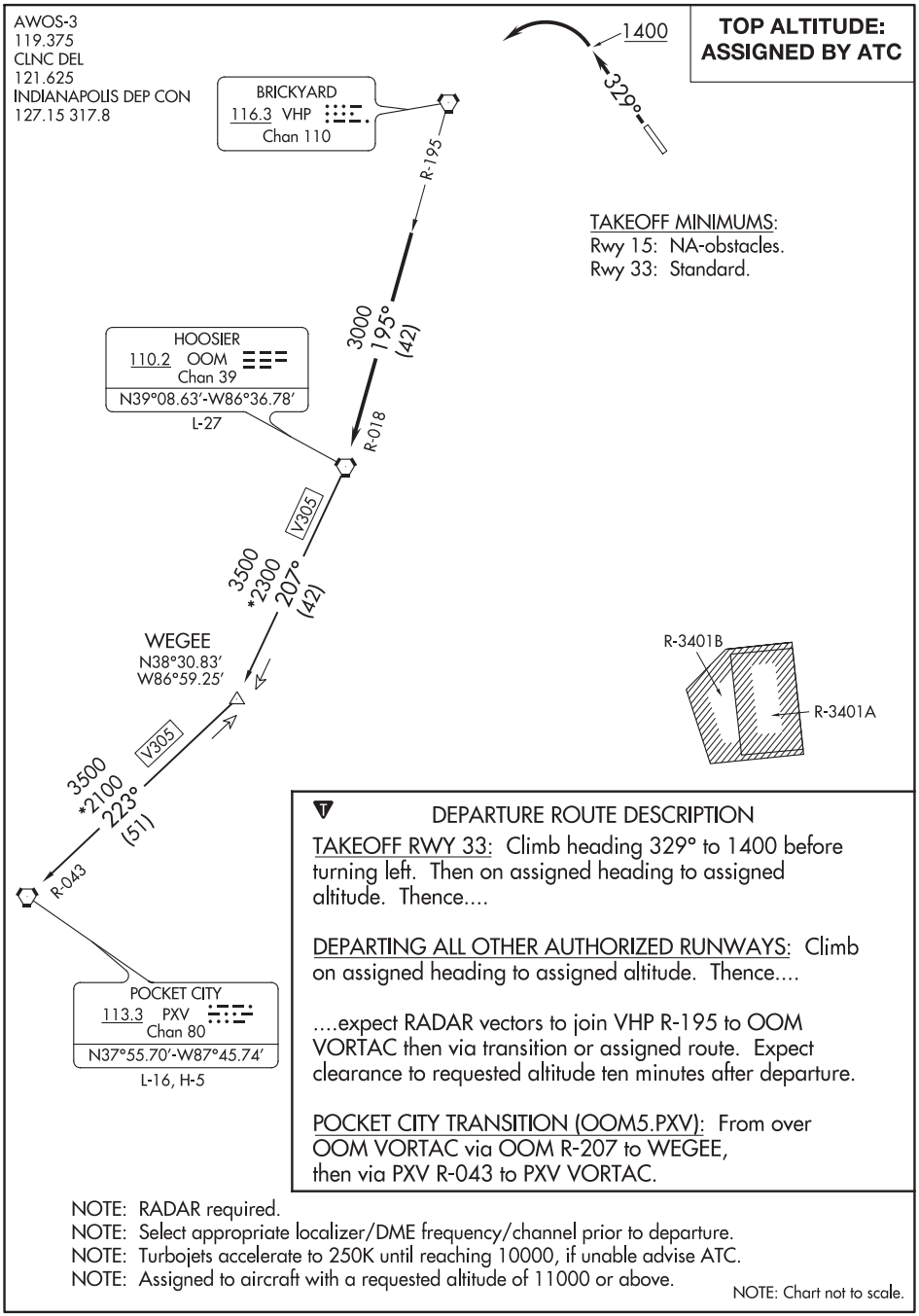
TAKEOFF RWY 33: Climb heading 329° to 1400 before turning left. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

EC-2, 25 FEB 2021 to 22 APR 2021



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

(MAREO5.MAREO) 20086

MAREO FIVE DEPARTURE

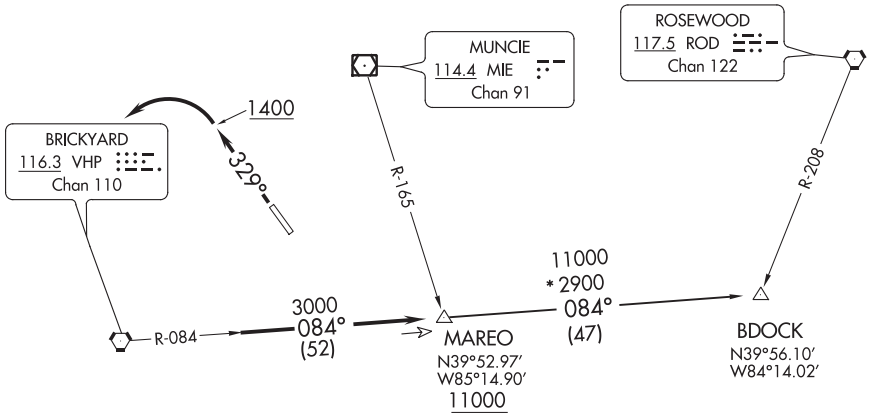
AL-5902 (FAA)

INDIANAPOLIS METROPOLITAN (UMP)
INDIANAPOLIS, INDIANA

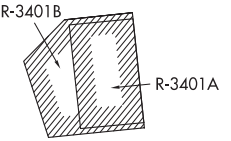
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
119.375
CLNC DEL
121.625
INDIANAPOLIS DEP CON
127.15 317.8

TAKEOFF MINIMUMS
Rwy 15: NA-obstacles.
Rwy 33: Standard.



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 33: Climb heading 329° to 1400 before turning left. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

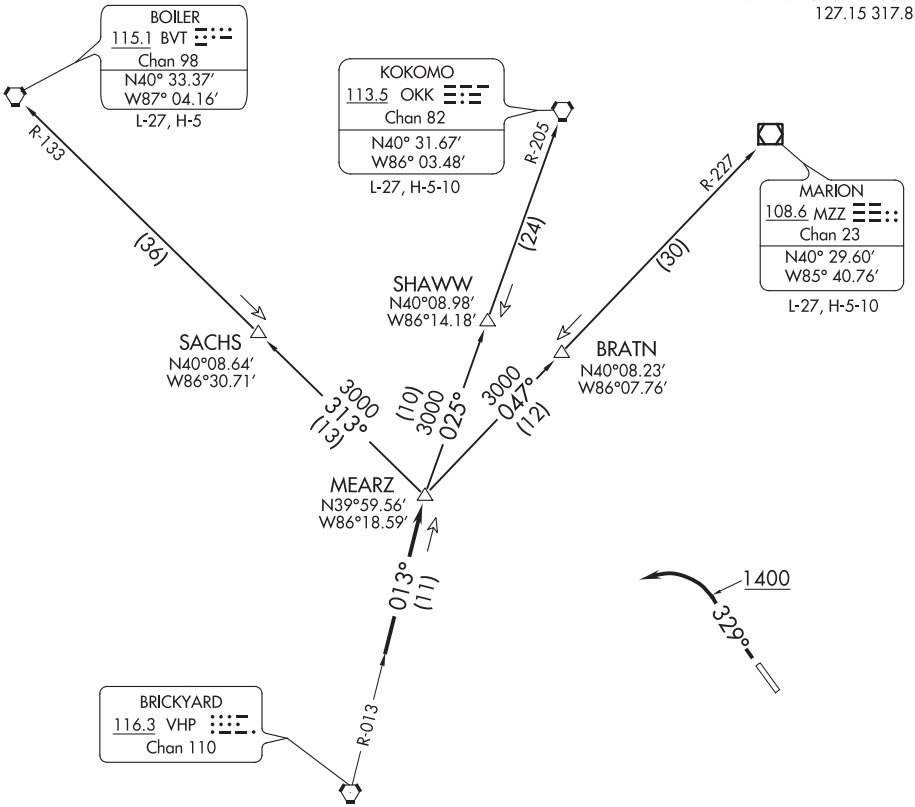
....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

EC-2, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

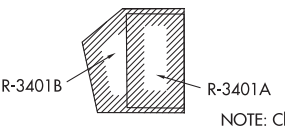
AWOS-3
119.375
CLNC DEL
121.625
INDIANAPOLIS DEP CON
127.15 317.8



TAKEOFF MINIMUMS
Rwy 15: NA-Obstacles.
Rwy 33: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)



NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 33: Climb heading 329° to 1400 before turning left. Then on assigned heading to assigned altitude. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

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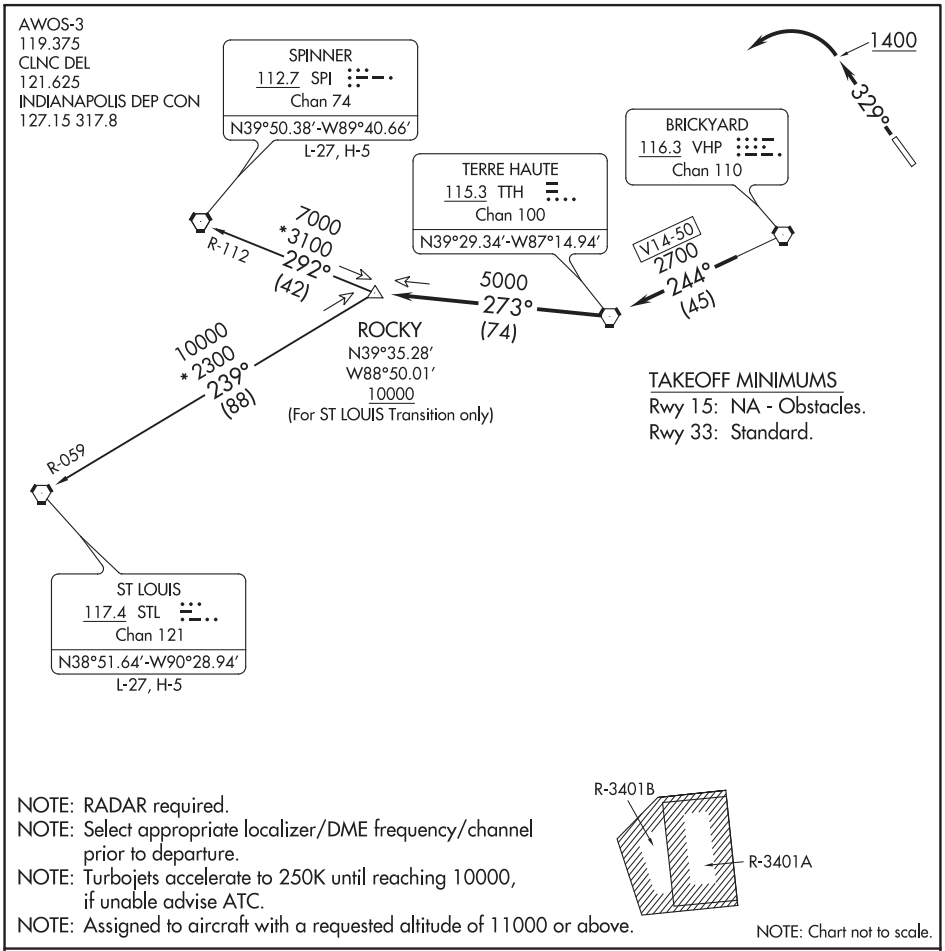

TAKEOFF MINIMUMS
Rwy 15: NA - Obstacles.
Rwy 33: Standard.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 33: Climb heading 329° to 1400 before turning left. Then on assigned heading to assigned altitude. Thence . . . .

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

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LOC I-MQJ	APP CRS	Rwy ldg	6005
108.7	252°	TDZE	860
		Apt Elev	862

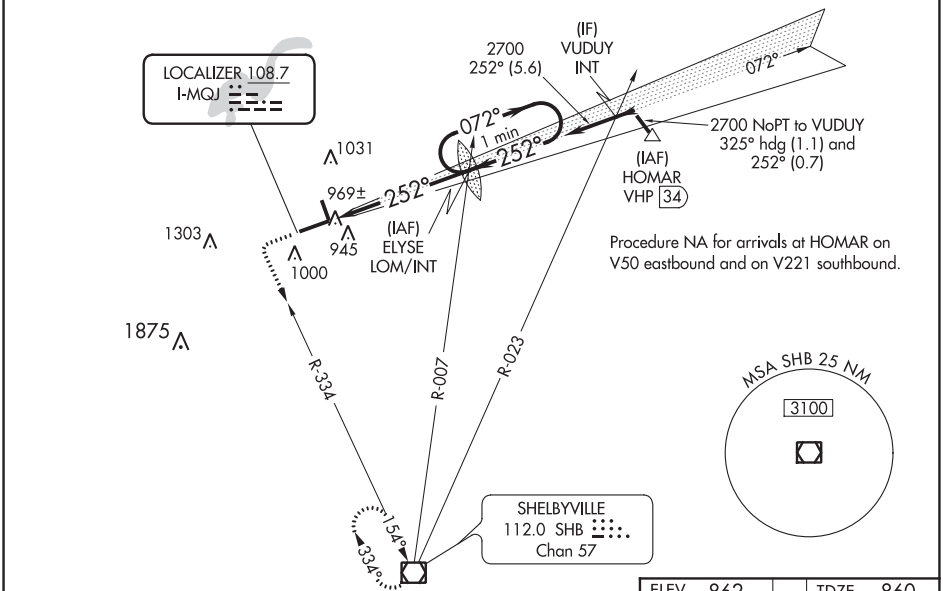
ILS or LOC RWY 25
INDIANAPOLIS RGNL (MQJ)

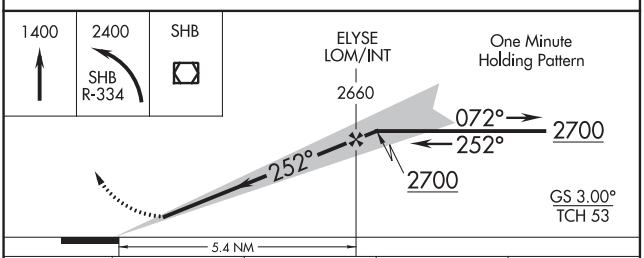
T A NA — When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all DA 55 feet and all MDA 60 feet, increase S-LOC 25 Cats C/D visibility ⅛ mile and Circling Cat D visibility ¼ mile.

MALSR A5

MISSED APPROACH: Climb to 1400 then climbing left turn to 2400 on SHB VOR/DME R-334 to SHB VOR/DME and hold.

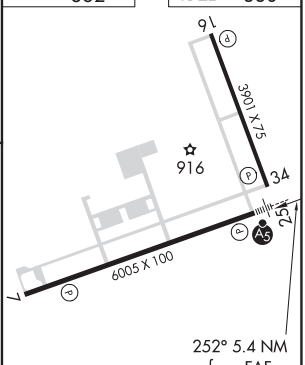
AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
124.175	127.15 317.8	119.25	122.975 (CTAF) L





CATEGORY	A	B	C	D
S-ILS 25	1060-½ 200 (200-½)			
S-LOC 25	1220-½ 360 (400-½)		1220-⅝ 360 (400-⅝)	
C CIRCLING	1340-1 478 (500-1)		1360-1½ 498 (500-1½)	1660-2½ 798 (800-2½)

ELEV 862 TDZE 860



REIL Rwys 7 and 34
HIRL Rwy 7-25 L
MIRL Rwy 16-34

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

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APP CRS	Rwy ldg	3901
162°	TDZE	858
	Apt Elev	862

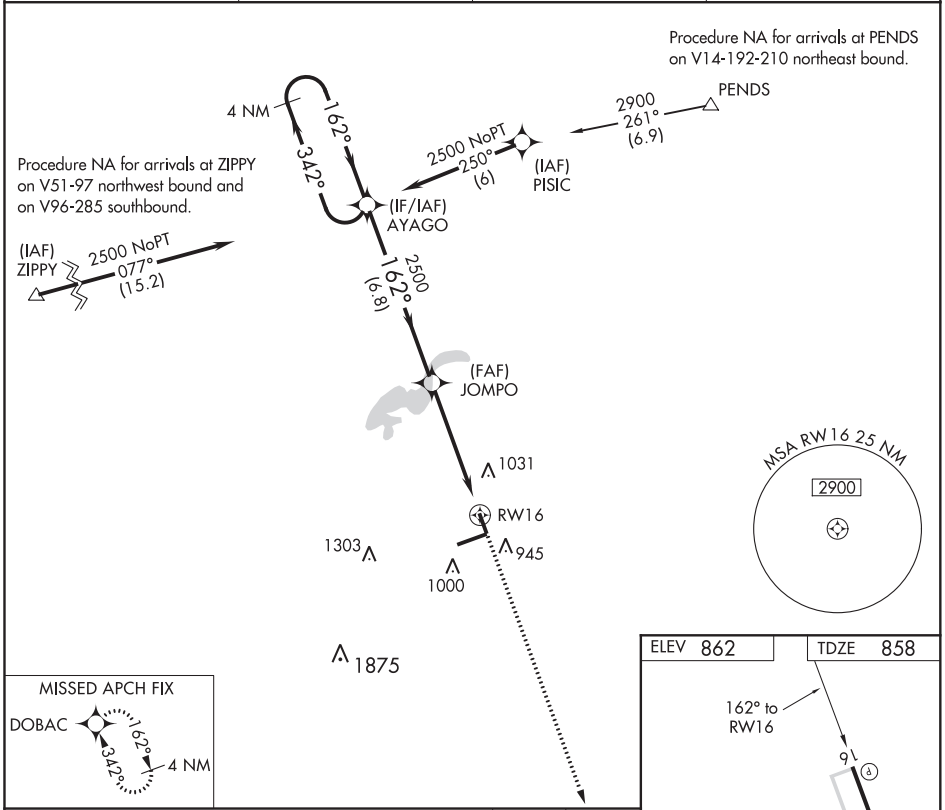
RNAV (GPS) RWY 16
INDIANAPOLIS RGNL (MQJ)

RNP APCH.

VDP NA with Indianapolis Intl altimeter setting. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet, increase LNAV Cat C/D visibility ⅛ mile increase Circling Cat D visibility ¼ mile. Rwy 16 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct DOBAC and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
124.175	127.15 317.8	119.25	122.975 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1320-1 462 (500-1)		1320-1⅜ 462 (500-1⅜)	
C CIRCLING	1340-1 478 (500-1)		1360-1½ 498 (500-1½)	1660-2½ 798 (800-2½)

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WAAS CH 56310 W25A	APP CRS 252°	Rwy ldg 6005 TDZE 860 Apt Elev 862

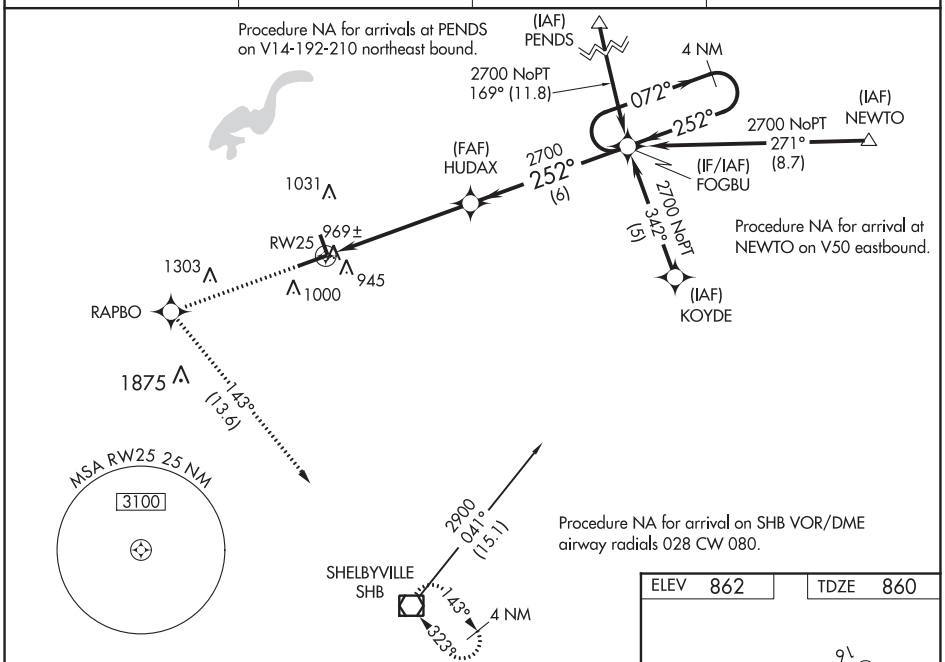
RNAV (GPS) RWY 25
INDIANAPOLIS RGNL (MQJ)

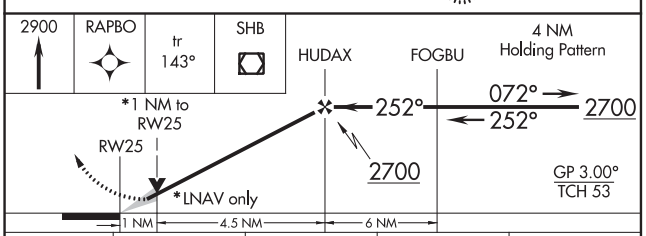
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Indianapolis Intl altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all DA 55 feet and all MDA 60 feet, and increase all visibilities ½ SM. When using Indianapolis altimeter setting inoperative table does not apply. For inoperative ALS, increase LPV all Cats visibility to 1 SM.

MALSR

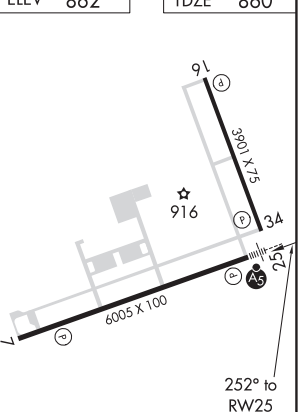
MISSED APPROACH: Climb to 2900 direct RAPBO and on track 143° to SHB VOR/DME and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
124.175	127.15 317.8	119.25	122.975 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1160-½ 300 (300-½)			
LNAV/VNAV DA	1259-⅞ 399 (400-⅞)			
LNAV MDA	1220-½ 360 (400-½)		1220-⅝ 360 (400-⅝)	
C CIRCLING	1340-1 478 (500-1)		1360-1½ 498 (500-1½)	1660-2½ 798 (800-2½)



REIL Rwys 7 and 34
HIRL Rwy 7-25 L
MIRL Rwy 16-34

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 45634 W34A	APP CRS 342°	Rwy ldg 3901 TDZE 858 Apt Elev 862

RNAV (GPS) RWY 34
INDIANAPOLIS RGNL (MQJ)

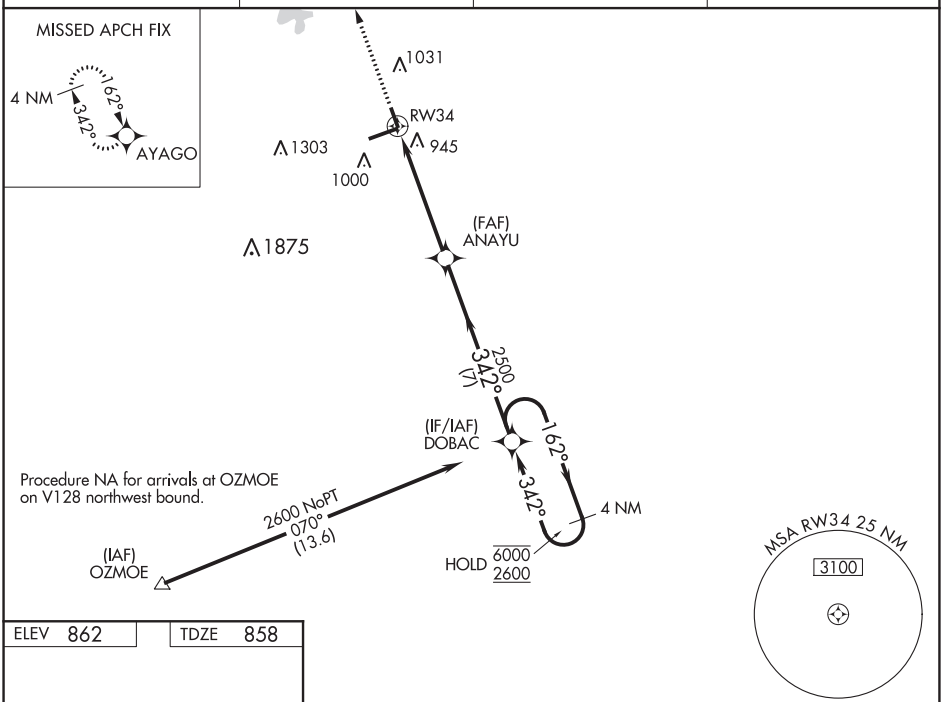
RNP APCH.

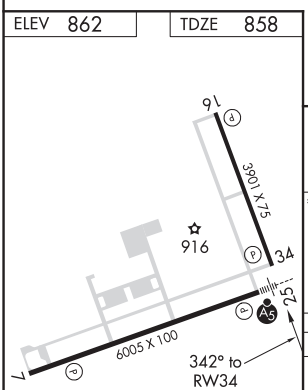
NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).

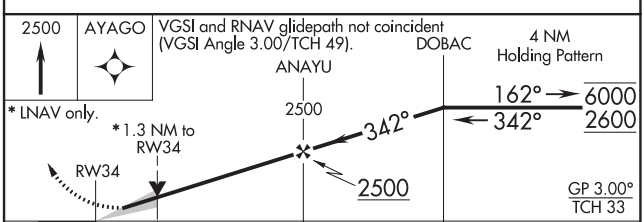
MISSED APPROACH: Climb to 2500 direct AYAGO and hold.

AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
124.175	127.15 317.8	119.25	122.975 (CTAF) L





REIL Rwys 7 and 34
HIRL Rwy 7-25 L
MIRL Rwy 16-34



CATEGORY	A	B	C	D
LPV DA	1058-¾ 200 (200-¾)			
LNAV/VNAV DA	1119-⅞ 261 (300-⅞)			
LNAV MDA	1320-1 462 (500-1)		1320-1⅜ 462 (500-1⅜)	
C CIRCLING	1340-1 478 (500-1)		1360-1½ 498 (500-1½)	1660-2½ 798 (800-2½)

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INDIANAPOLIS, INDIANA | AL-6452 (FAA) | 20142

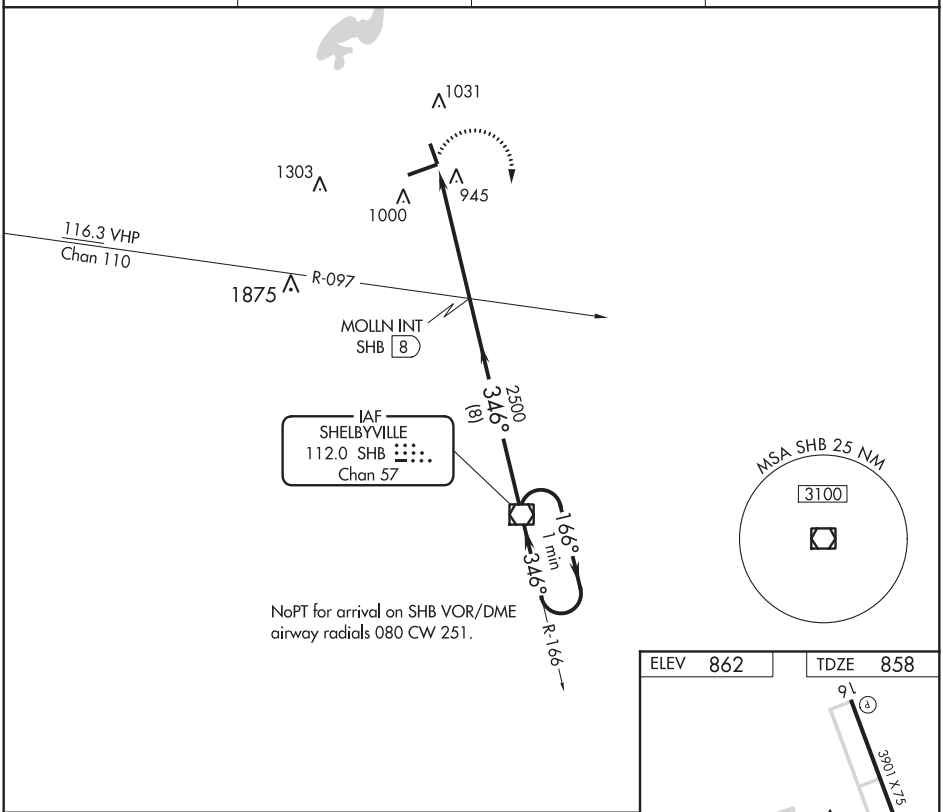
VOR/DME SHB	APP CRS	Rwy ldg	3901
112.0	346°	TDZE	858
Chan 57		Apt Elev	862

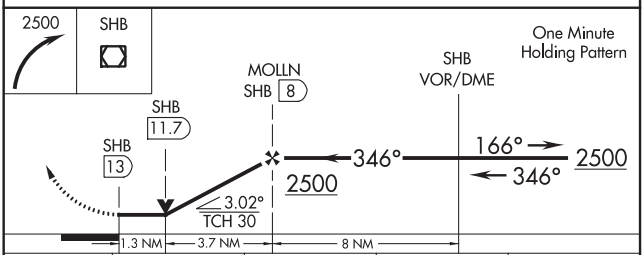
VOR RWY 34
INDIANAPOLIS RGNL (MQJ)

T NA — When local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDA 60 feet and Circling Cat D visibility ¼ SM. VDP NA when using Indianapolis Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 2500 direct SHB VOR/DME and hold.

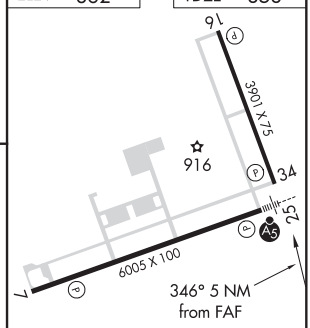
AWOS-3	INDIANAPOLIS APP CON	CLNC DEL	UNICOM
124.175	127.15 317.8	119.25	122.975 (CTAF) L





CATEGORY	A	B	C	D
S-34	1300-1 442 (500-1)		1300-1⅜ 442 (500-1⅜)	
C CIRCLING	1340-1 478 (500-1)		1360-1½ 498 (500-1½)	1660-2½ 798 (800-2½)

ELEV 862 | TDZE 858



REIL Rwys 7 and 34
HIRL Rwy 7-25 L
MIRL Rwy 16-34

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

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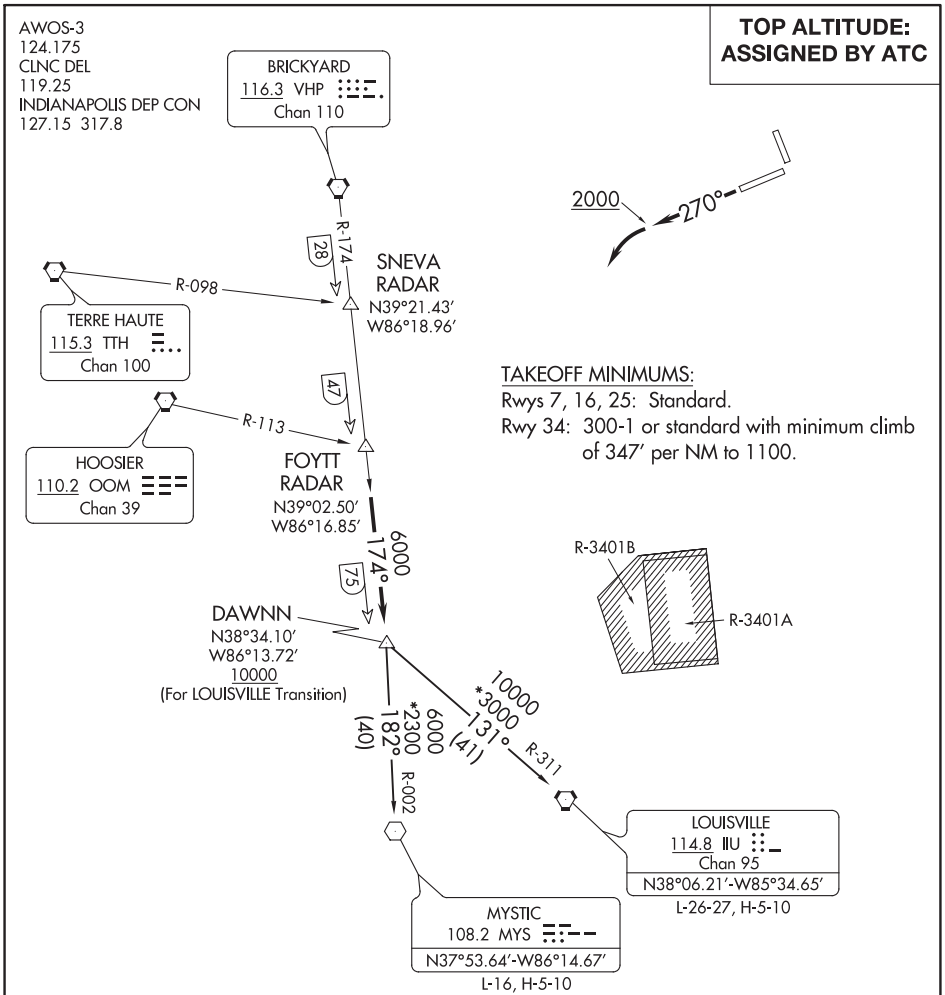
EC-2, 25 FEB 2021 to 22 APR 2021



TAKEOFF MINIMUMS:
Rwys 7, 16, 25: Standard.
Rwy 34: 300-1 or standard with minimum climb of 347′ per NM to 1100.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climb heading 270° to 2000 before turning left. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

EC-2, 25 FEB 2021 to 22 APR 2021

AWOS-3
124.175
CLNC DEL
119.25
INDIANAPOLIS DEP CON
127.15 317.8

TOP ALTITUDE: ASSIGNED BY ATC

BRICKYARD
116.3 VHP
Chan 110

2000
270°

R-195
3000
195°
(42)

HOOSIER
110.2 OOM
Chan 39
N39°08.63′-W86°36.78′
L-27

R-018
V305
3500
*2300
207°
(42)

TAKEOFF MINIMUMS:
Rwys 7, 16, 25: Standard.
Rwy 34: 300-1 or Standard with minimum climb of 347′ per NM to 1100.

WEGEE
N38°30.83′
W86°59.25′

R-3401B
R-3401A

V305
3500
*2100
223°
(511)

R-043

POCKET CITY
113.3 PXV
Chan 80
N37°55.70′-W87°45.74′
L-16, H-5

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climb heading 270° to 2000 before turning left. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

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(MAREO5.MAREO) 20086

MAREO FIVE DEPARTURE

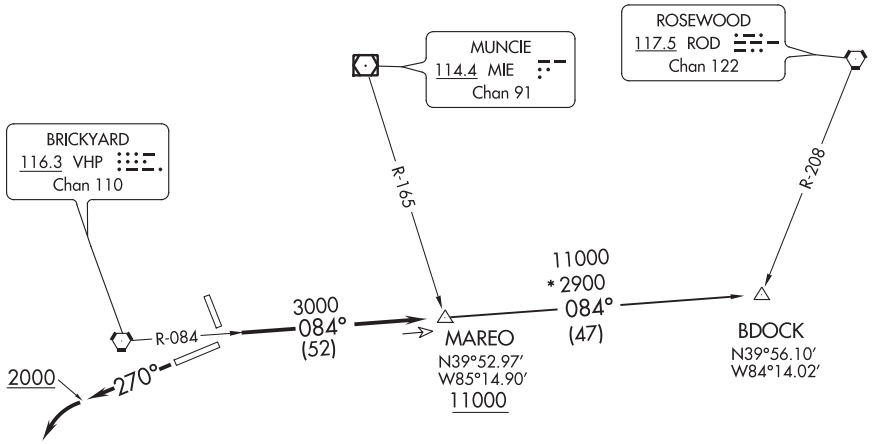
AL-6452 (FAA)

INDIANAPOLIS RGNL (MQJ)
INDIANAPOLIS, INDIANA

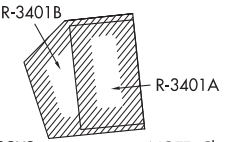
AWOS-3
124.175
CLNC DEL
119.25
INDIANAPOLIS DEP CON
127.15 317.8

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 7, 16, 25: Standard.
Rwy 34: 300-1 or standard with minimum climb of 347′ per NM to 1100.



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climb heading 270° to 2000 before turning left. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

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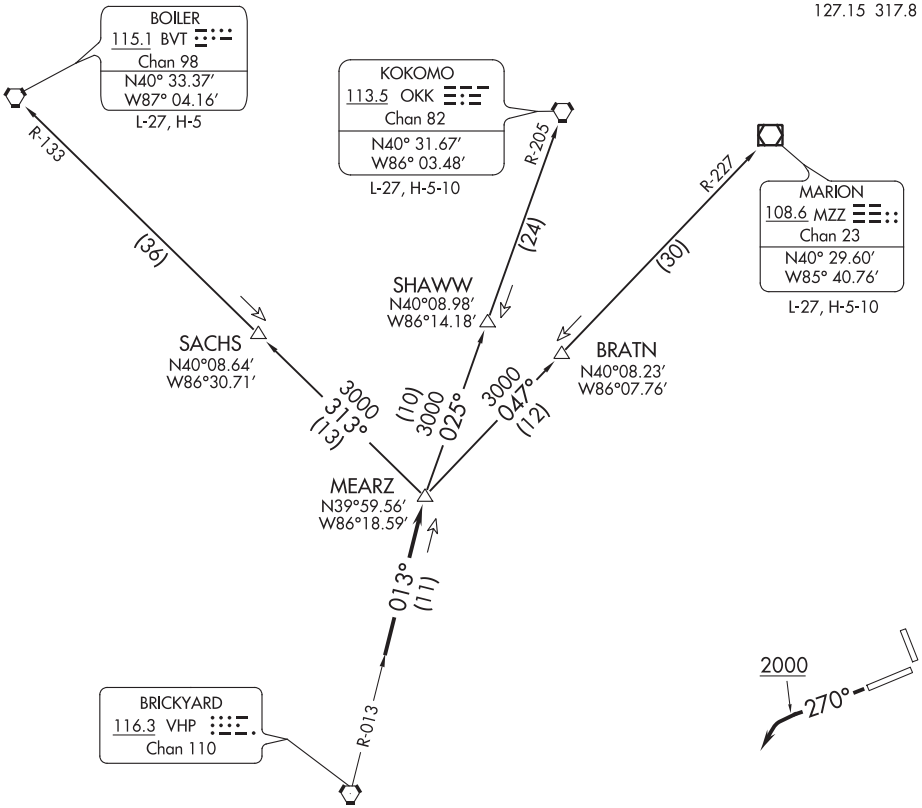
TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
124.175
CLNC DEL
119.25
INDIANAPOLIS DEP CON
127.15 317.8



TAKEOFF MINIMUMS

Rwys 7, 16, 25: Standard.

Rwys 34: 300-1 or standard with minimum climb of 347′ per NM to 1100.

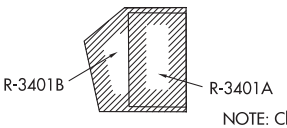
NOTE: RADAR required.

NOTE: Select appropriate localizer/DME frequency/channel prior to departure.

NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.

NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)



NOTE: Chart not to scale.

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EC-2, 25 FEB 2021 to 22 APR 2021

V

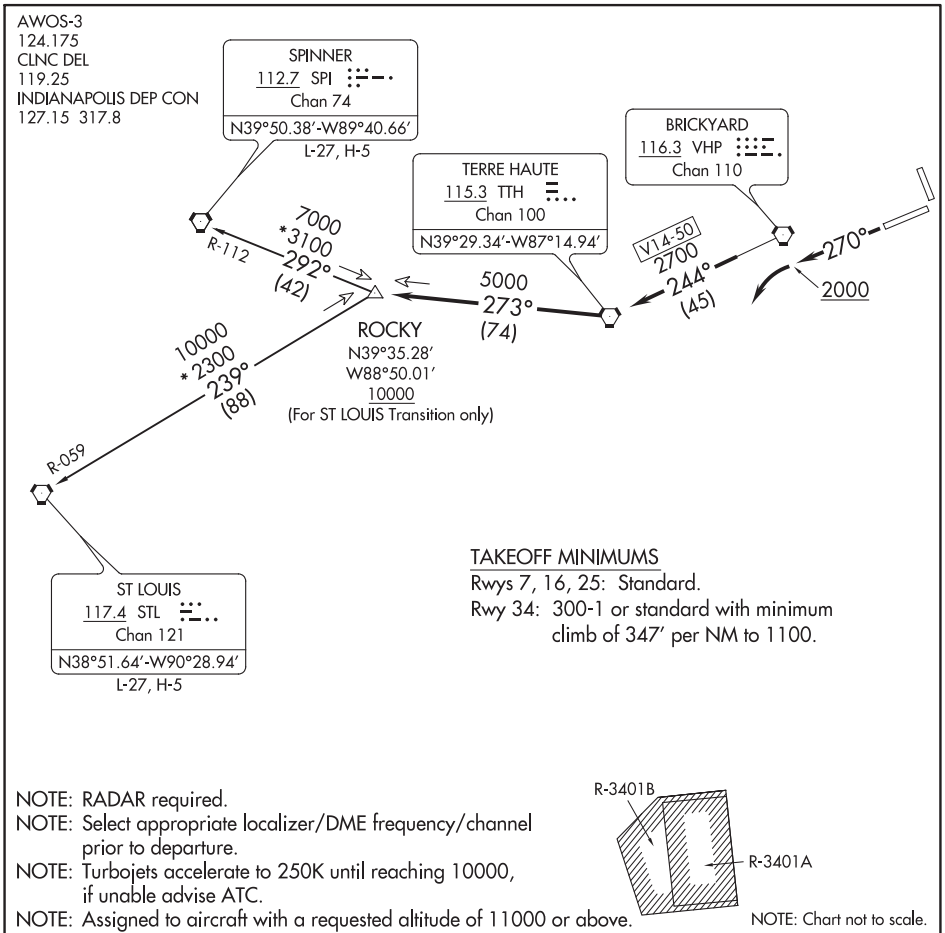
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climb heading 270° to 2000 before turning left. Then on assigned heading to assigned altitude. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

EC-2, 25 FEB 2021 to 22 APR 2021



TAKEOFF MINIMUMS
Rwys 7, 16, 25: Standard.
Rwy 34: 300-1 or standard with minimum climb of 347′ per NM to 1100.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 25: Climb heading 270° to 2000 before turning left. Then on assigned heading to assigned altitude. Thence . . . .

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

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INDIANAPOLIS, INDIANA

AL-6614 (FAA)

19171

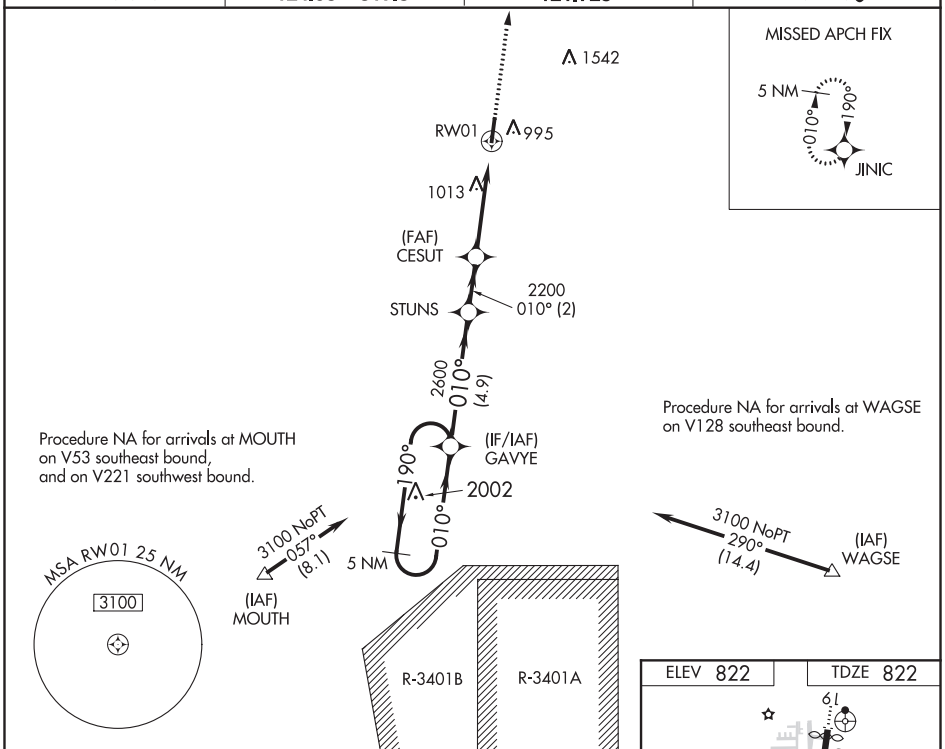
RNAV (GPS) RWY 1
INDY SOUTH GREENWOOD (HFY)

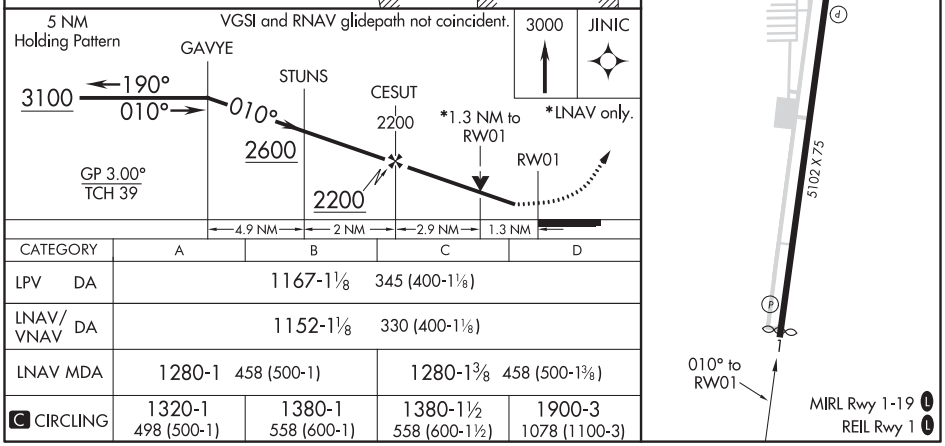
WAAS CH 97640 W01A	APP CRS 010°	Rwy ldg 5000 TDZE 822 Apt Elev 822

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Rwy 1 helicopter visibility reduction below ¾ NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct JINIC and hold.

AWOS-3P	INDIANAPOLIS APP CON	GCO	UNICOM
118.525	124.95 317.8	121.725	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1167-1⅛ 345 (400-1⅛)			
LNAV/VNAV DA	1152-1⅛ 330 (400-1⅛)			
LNAV MDA	1280-1 458 (500-1)		1280-1⅜ 458 (500-1⅜)	
C CIRCLING	1320-1 498 (500-1)	1380-1 558 (600-1)	1380-1½ 558 (600-1½)	1900-3 1078 (1100-3)

INDIANAPOLIS, INDIANA
Amdt 2A 09NOV17

39°38'N-86°05'W

INDY SOUTH GREENWOOD (HFY)
RNAV (GPS) RWY 1

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RNAV (GPS) RWY 19
INDY SOUTH GREENWOOD (HFY)

WAAS CH 53703 W19A	APP CRS 190°	Rwy ldg 5002 TDZE 822 Apt Elev 822

RNP APCH.

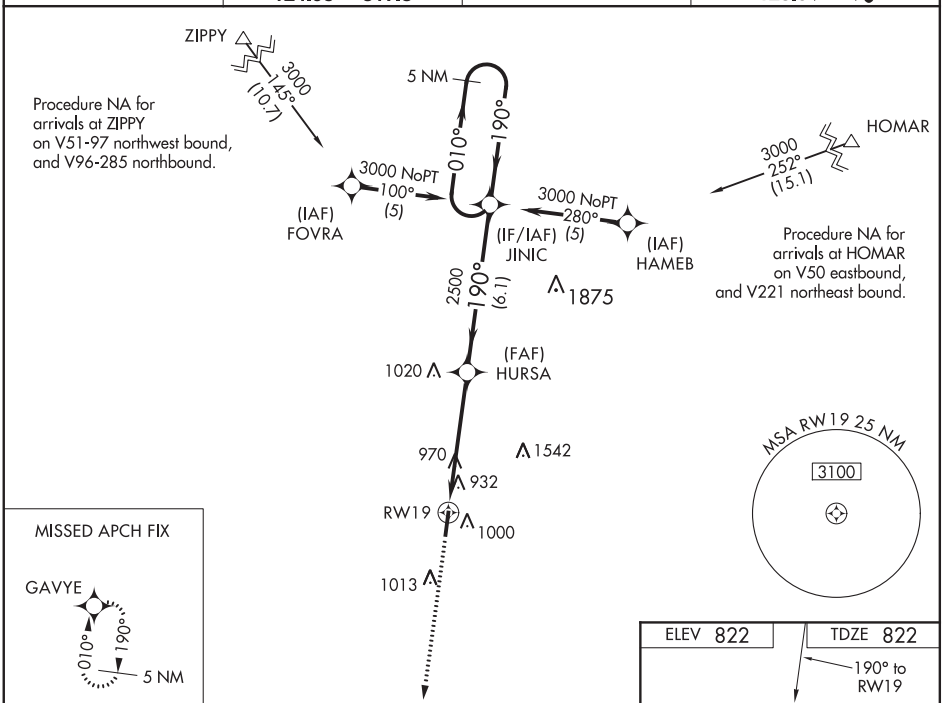
T
A NA

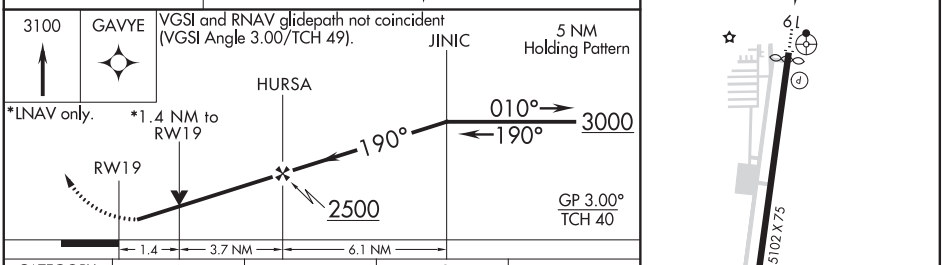
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Baro-VNAV and VDP NA when using Indianapolis Intl altimeter setting. Rwy 19 helicopter visibility reduction below ¾ SM NA.

ODALS

MISSED APPROACH: Climb to 3100 direct GAVYE and hold.

AWOS-3P	INDIANAPOLIS APP CON		GCO	UNICOM
118.525	124.95	317.8	121.725	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1130-1 308 (400-1)			NA
LNAV/VNAV DA	1299-1¾ 477 (500-1¾)			NA
LNAV MDA	1300-1 478 (500-1)		1300-1⅜ 478 (500-1⅜)	NA
C CIRCLING	1360-1 538 (600-1)	1380-1 558 (600-1)	1380-1½ 558 (600-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
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INDIANAPOLIS, INDIANA AL-6614 (FAA) 20310

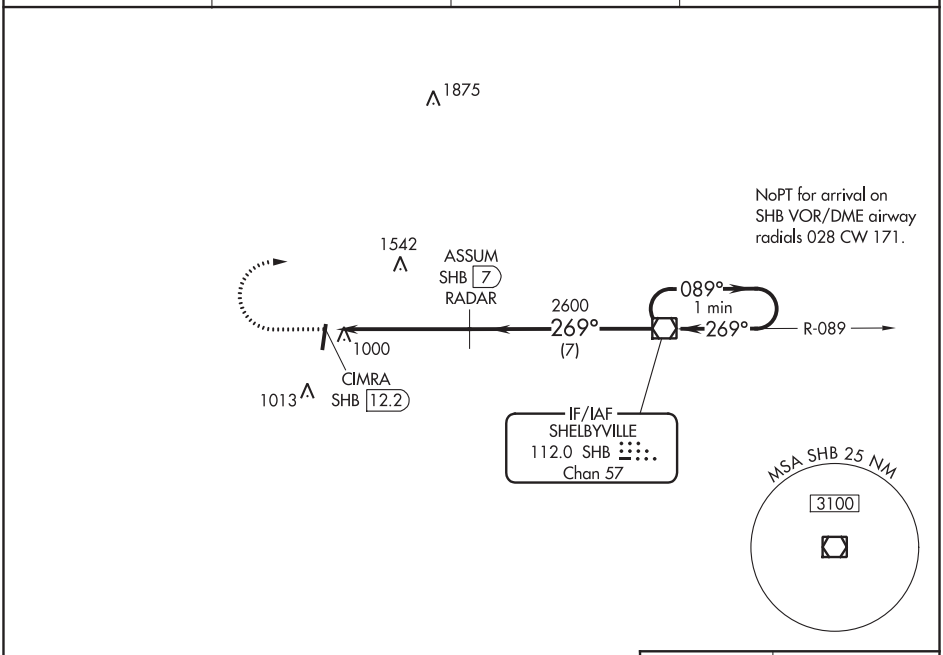
VOR/DME SHB 112.0 Chan 57	APP CRS 269°	Rwy ldg N/A TDZE N/A Apt Elev 822

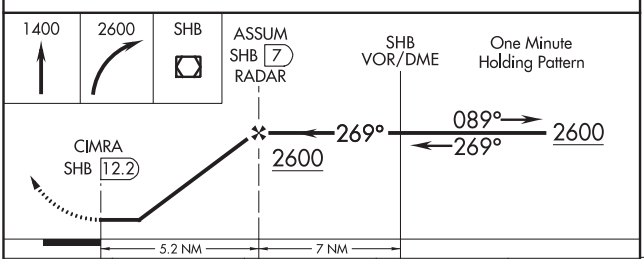
VOR-A
INDY SOUTH GREENWOOD (HFY)

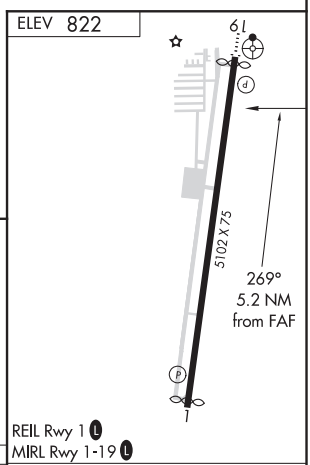
Rwy 1, 19 helicopter visibility reduction below ¾ SM NA. DME or RADAR REQUIRED.

MISSED APPROACH: Climb to 1400 then climbing right turn to 2600 direct SHB VOR/DME and hold.

AWOS-3P	INDIANAPOLIS APP CON		GCO	UNICOM
118.525	124.95	317.8	121.725	123.0 (CTAF) L







REIL Rwy 1 L
MIRL Rwy 1-19 L

CATEGORY	A	B	C	D
C CIRCLING	1360-1 538 (600-1)	1380-1 558 (600-1)	1380-1½ 558 (600-1½)	NA

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3P
118.525
INDIANAPOLIS DEP CON
124.95 317.8

BRICKYARD
116.3 VHP
Chan 110

1500
010°

R-174
28
SNEVA RADAR
N39°21.43′
W86°18.96′

R-098
TERRE HAUTE
115.3 TTH
Chan 100

47
R-113
HOOSIER
110.2 OOM
Chan 39

FOYTT RADAR
N39°02.50′
W86°16.85′

6000
174°
75

DAWNN
N38°34.10′
W86°13.72′
10000
(For LOUISVILLE Transition)

10000
*3000
131°
(41)
R-311

6000
*2300
182°
(40)
R-002

LOUISVILLE
114.8 IIU
Chan 95
N38°06.21′-W85°34.65′
L-26-27, H-5-10

MYSTIC
108.2 MYS
N37°53.64′-W86°14.67′
L-16, H-5-10

R-3401B
R-3401A

TAKEOFF MINIMUMS:
Rwy 1: Standard.
Rwy 19: 300-1 or standard with minimum climb of 484′ per NM to 1200.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 010° to 1500 before turning right. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

EC-2, 25 FEB 2021 to 22 APR 2021
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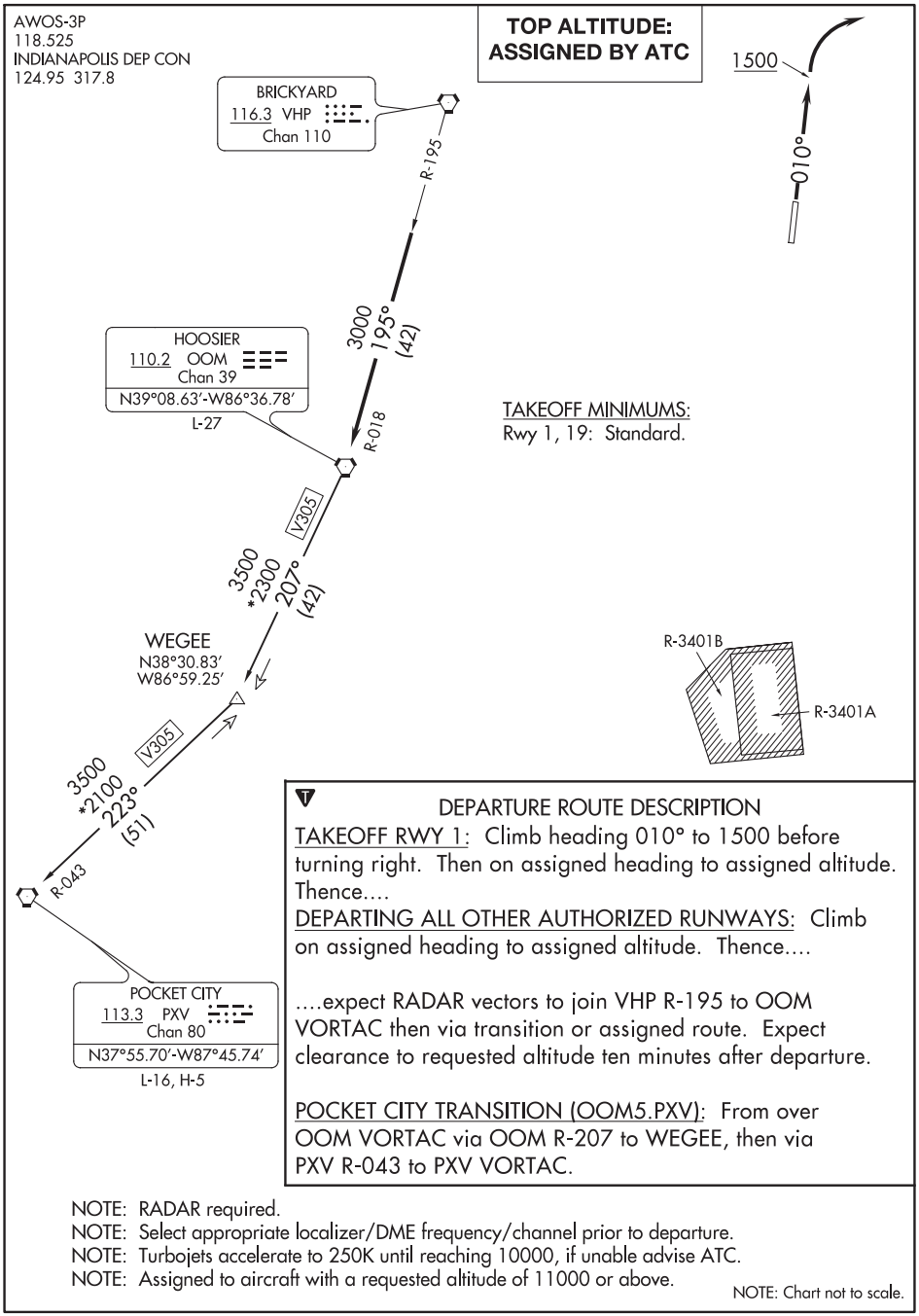

AWOS-3P
118.525
INDIANAPOLIS DEP CON
124.95 317.8
TOP ALTITUDE:
ASSIGNED BY ATC
1500
010°
BRICKYARD
116.3 VHP
Chan 110
R-195
3000
195°
(42)
HOOSIER
110.2 OOM
Chan 39
N39°08.63′-W86°36.78′
L-27
R-018
TAKEOFF MINIMUMS:
Rwy 1, 19: Standard.
V305
3500
*2300
207°
(42)
WEGEE
N38°30.83′
W86°59.25′
R-3401B
R-3401A
V305
3500
*2100
223°
(511)
R-043
POCKET CITY
113.3 PXV
Chan 80
N37°55.70′-W87°45.74′
L-16, H-5
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RWY 1: Climb heading 010° to 1500 before turning right. Then on assigned heading to assigned altitude. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....
....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.
POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.
NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.
NOTE: Chart not to scale.

(MAREO5.MAREO) 20086

MAREO FIVE DEPARTURE

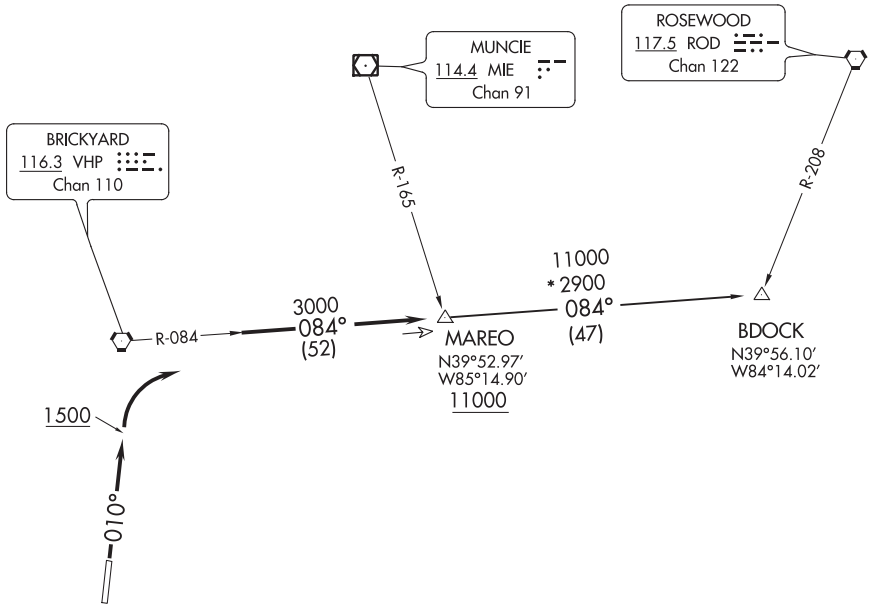
AL-6614 (FAA)

INDY SOUTH GREENWOOD (HFY)
INDIANAPOLIS, INDIANA

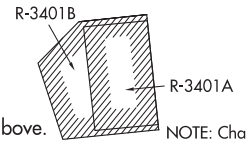
AWOS-3P
118.525
INDIANAPOLIS DEP CON
124.95 317.8

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwy 1, 19: Standard.



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 010° to 1500 before turning right. Then on assigned heading to assigned altitude. Thence....

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

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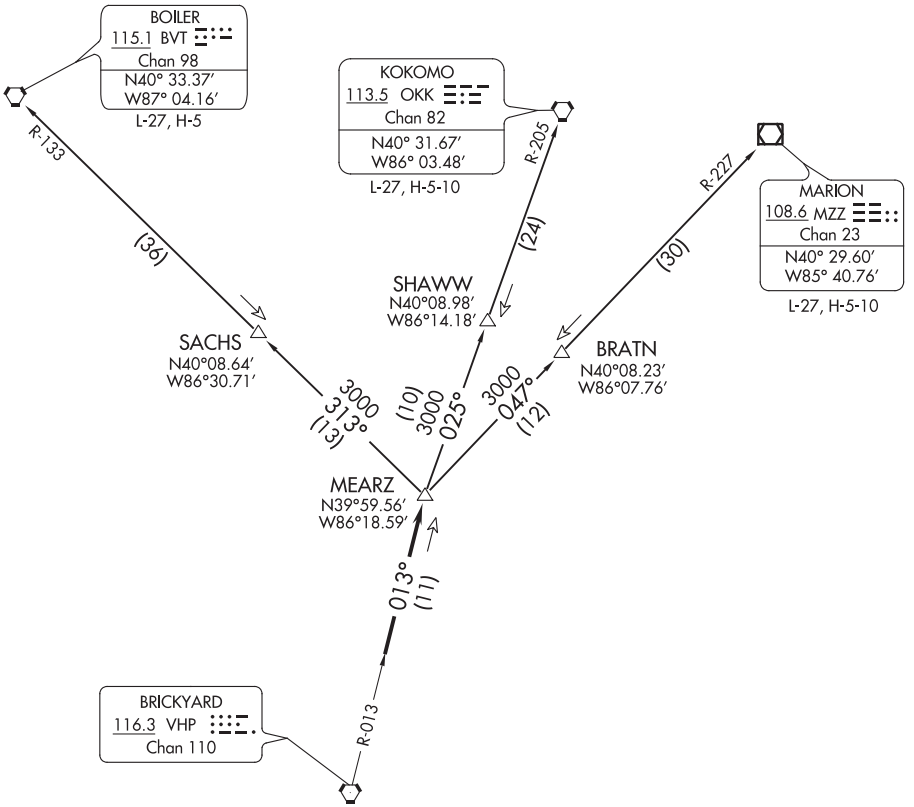
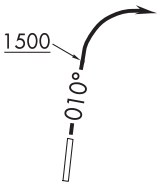
TOP ALTITUDE: ASSIGNED BY ATC

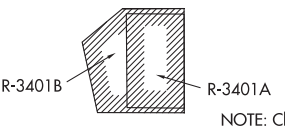
AWOS-3P
118.525
INDIANAPOLIS DEP CON
124.95 317.8



TAKEOFF MINIMUMS
Rwy 1, 19: Standard.



NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

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DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 010° to 1500 before turning right. Then on assigned heading to assigned altitude. Thence....
DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

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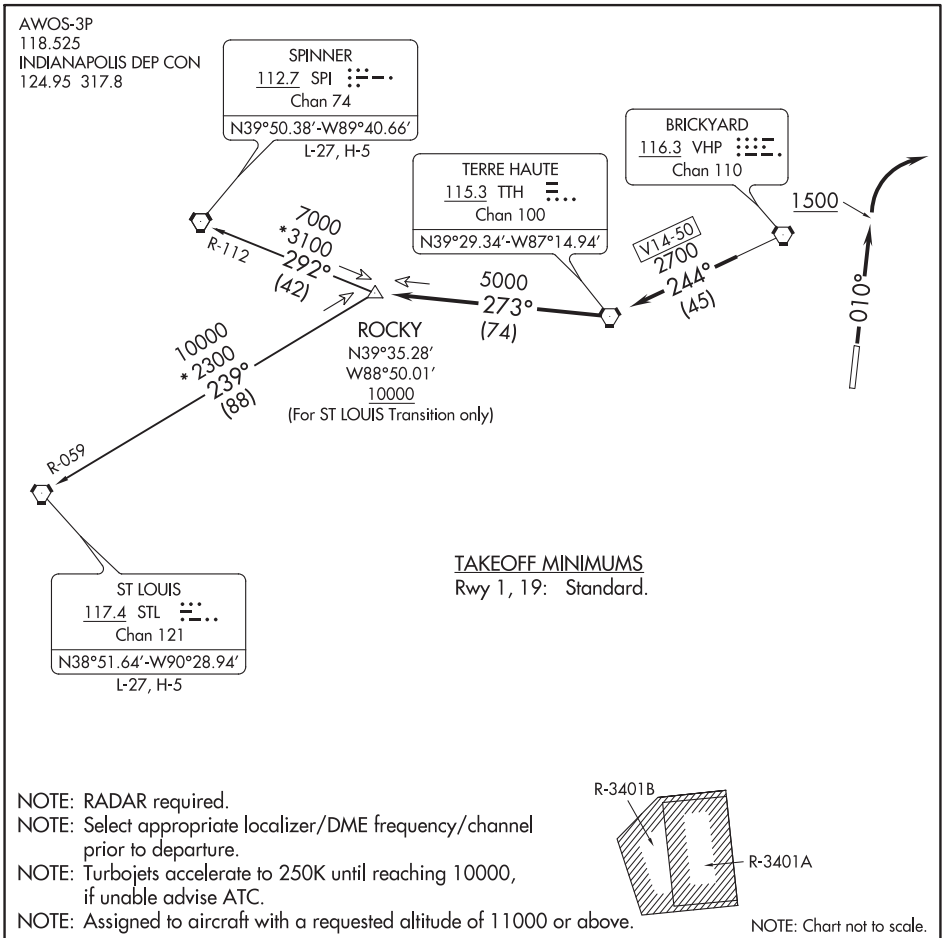

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climb heading 010° to 1500 before turning right. Then on assigned heading to assigned altitude. Thence . . . .

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

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JACKSON, OHIO AL-6581 (FAA) 20366

RNAV (GPS) RWY 1

JAMES A RHODES (I43)

APP CRS	Rwy ldg	4870
010°	TDZE	722
	Apt Elev	726

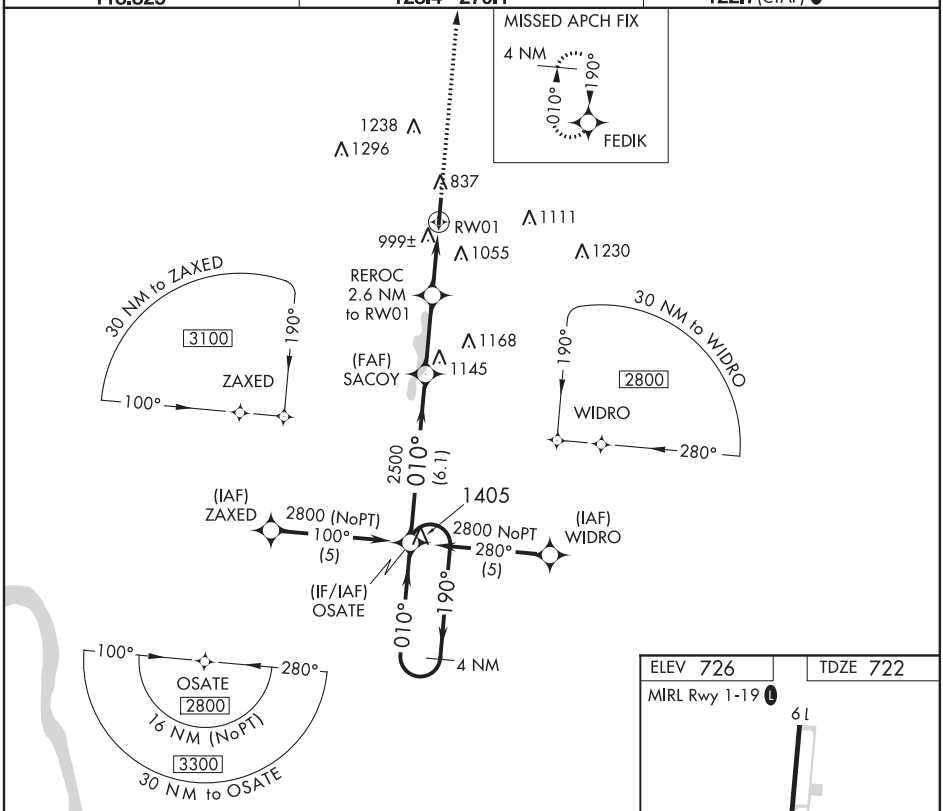
RNP APCH.

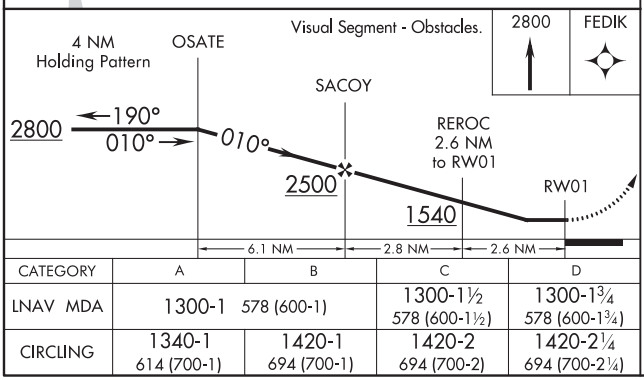
When local altimeter setting not received, use Greater Portsmouth altimeter setting and increase all MDA 60 feet, and increase LNAV Cat C/D and Circling Cat B/C/D visibilities ¼ mile. Rwy 1 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 1 NA at night, Circling Rwy 1 NA at night.

NA

MISSED APPROACH: Climb to 2800 direct FEDIK WP and hold.

AWOS-3	HUNTINGTON APP CON	UNICOM
118.825	128.4 270.1	122.7 (CTAF) L

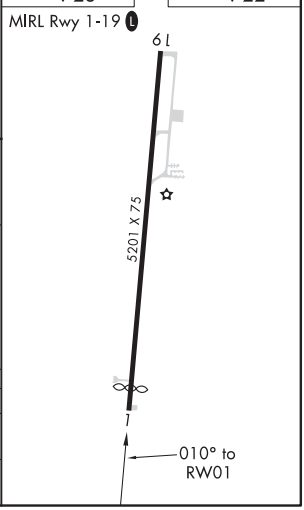




CATEGORY	A	B	C	D
LNAV MDA	1300-1 578 (600-1)		1300-1½ 578 (600-1½)	1300-1¾ 578 (600-1¾)
CIRCLING	1340-1 614 (700-1)	1420-1 694 (700-1)	1420-2 694 (700-2)	1420-2¼ 694 (700-2¼)

ELEV 726 TDZE 722

MIRL Rwy 1-19 L



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APP CRS	Rwy ldg	5201
190°	TDZE	726
	Apt Elev	726

RNAV (GPS) RWY 19

JAMES A RHODES (I43)

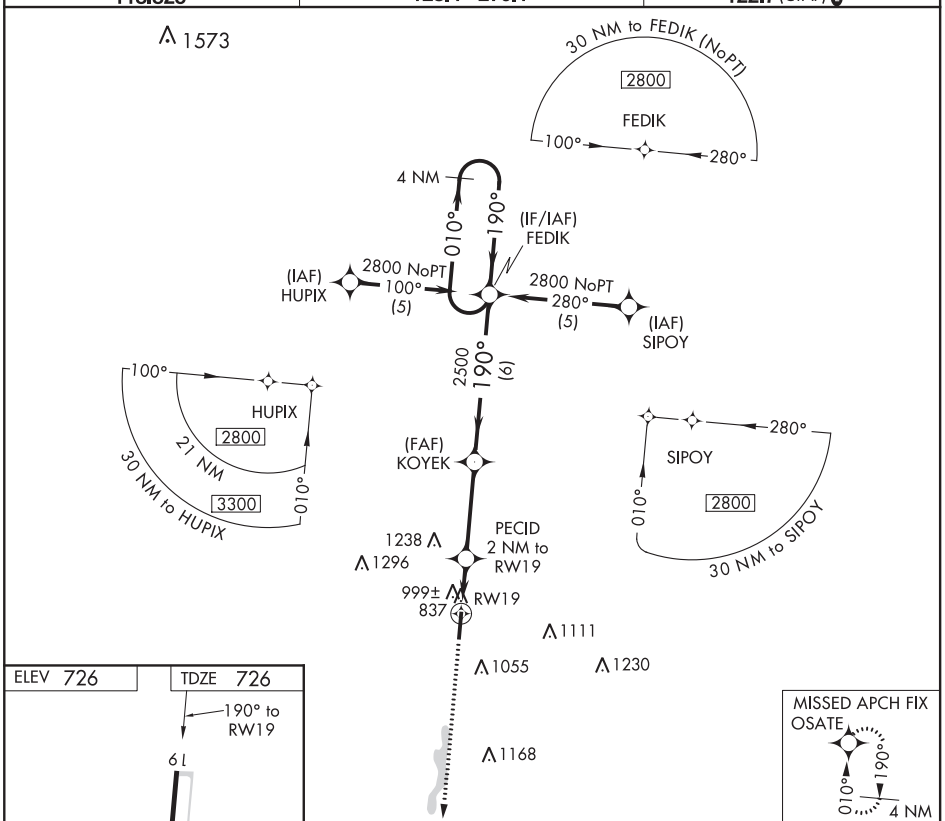
RNP APCH.

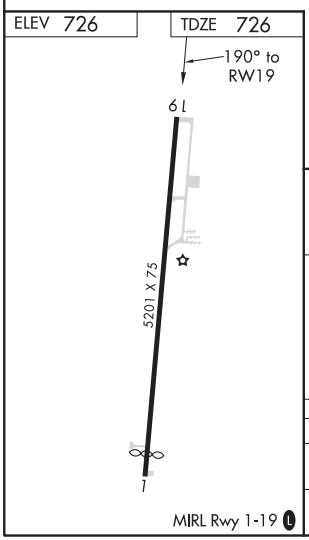
When local altimeter setting not received, use Greater Portsmouth altimeter setting and increase all MDA 60 feet, and increase LNAV Cat C/D and Circling Cat B/C/D visibilities ¼ mile. Rwy 19 helicopter visibility reduction below ¾ SM NA. Circling Rwy 1 NA at night.

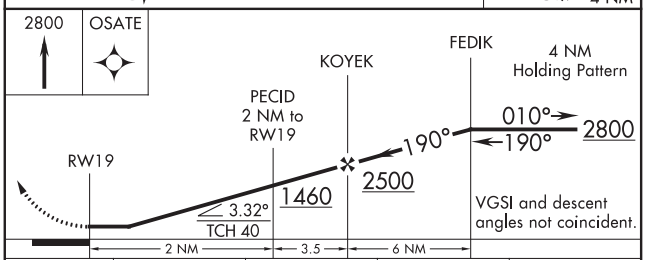
NA

MISSED APPROACH: Climb to 2800 direct OSATE WP and hold.

AWOS-3	HUNTINGTON APP CON	UNICOM
118.825	128.4 270.1	122.7 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1280-1 554 (600-1)		1280-1½ 554 (600-1½)	1280-1¾ 554 (600-1¾)
CIRCLING	1340-1 614 (700-1)	1420-1 694 (700-1)	1420-2 694 (700-2)	1420-2¼ 694 (700-2¼)

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EC-2, 25 FEB 2021 to 22 APR 2021

JACKSON, OHIO | AL-6581 (FAA) | 20366

VOR/DME-A
JAMES A RHODES (I43)

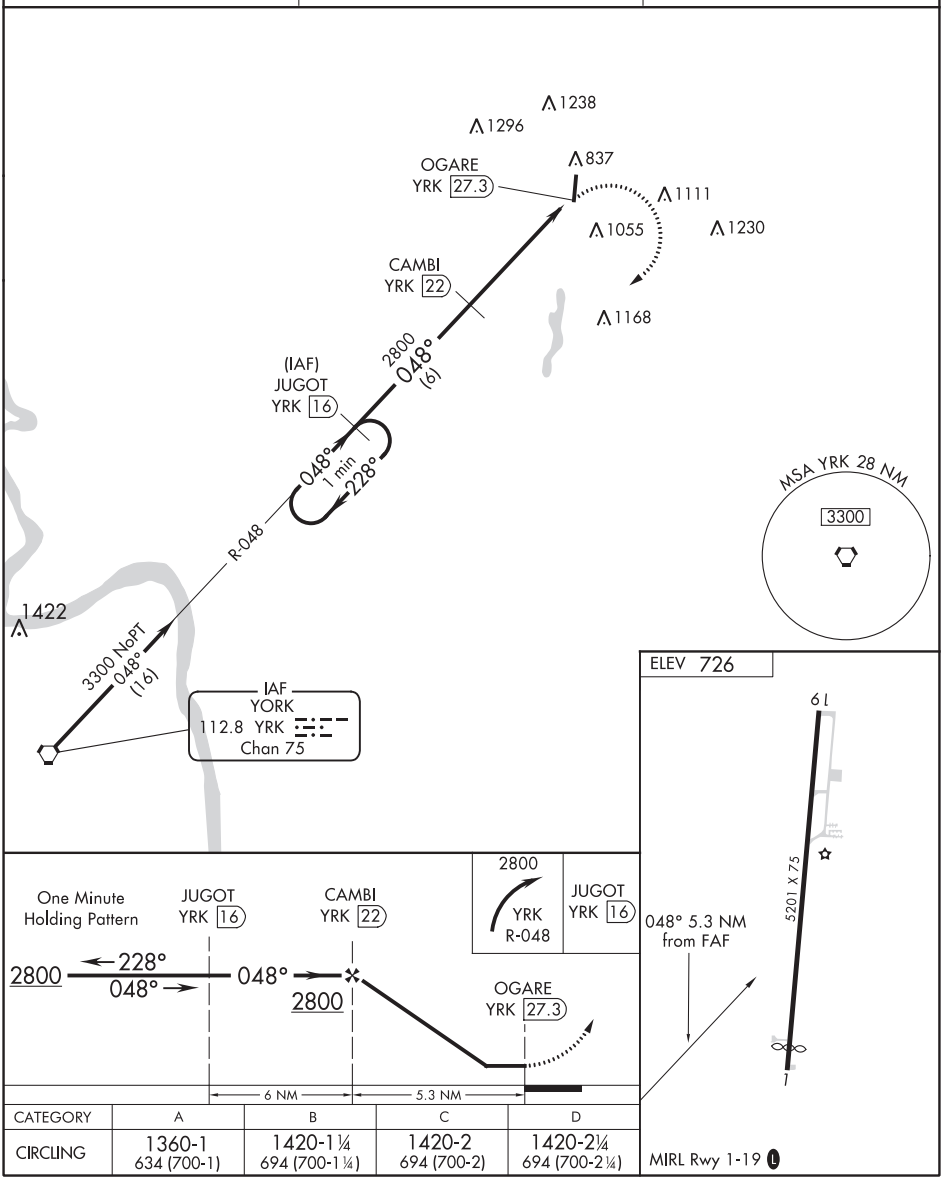
VORTAC YRK	APP CRS	Rwy ldg	N/A
112.8	048°	TDZE	N/A
Chan 75		Apt Elev	726

When local altimeter setting not received, use Greater Portsmouth altimeter setting and increase all MDA 60 feet, and Cat C/D visibilities ¼ mile. Circling Rwy 1 NA at night.

NA

MISSED APPROACH: Climbing right turn to 2800 via YRK R-048 to JUGOT/16 DME and hold.

AWOS-3	HUNTINGTON APP CON	UNICOM
118.825	128.4 270.1	122.7 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1360-1 634 (700-1)	1420-1¼ 694 (700-1¼)	1420-2 694 (700-2)	1420-2¼ 694 (700-2¼)

MIRL Rwy 1-19 L

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EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-JVY	APP CRS	Rwy ldg	7000
111.7	182°	TDZE	478
		Apt Elev	478

ILS or LOC RWY 18
CLARK RGNL (JVY)

ADF required. RADAR required for procedure entry.

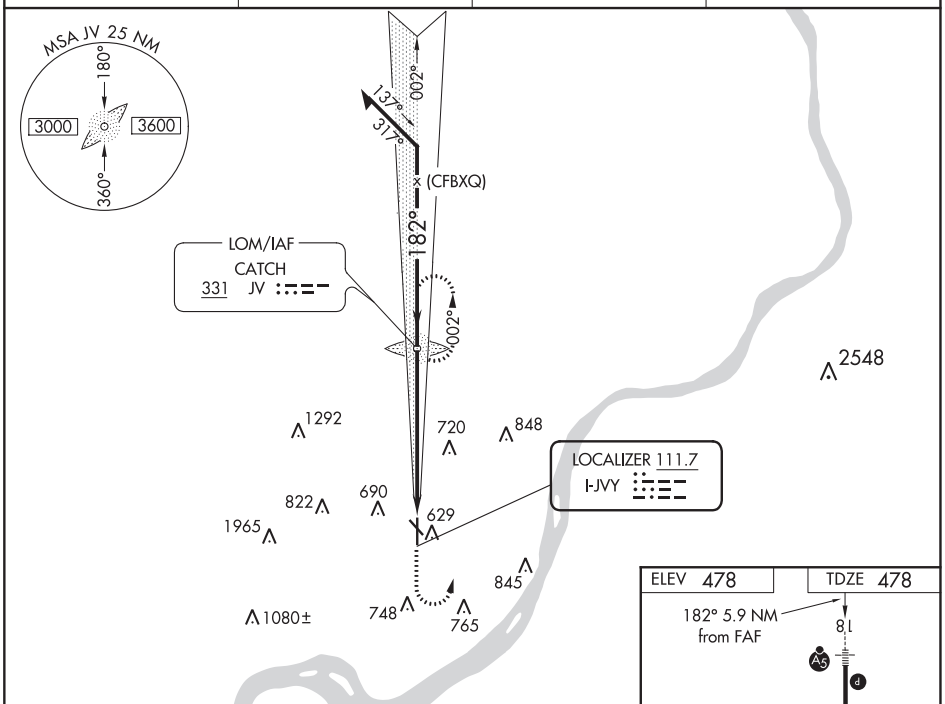
T
A NA

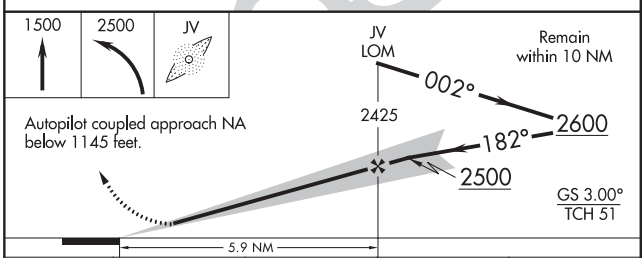
Circling NA for Cat D southwest of Rwys 14 and 36. Circling Rwy 14, 32 NA at night. For inop ALS, increase S-LOC 18 Cats C and D visibility to 1⅜ SM. When local altimeter setting not recieved, use Louisville Muhammad Ali Intl altimeter setting: increase DA to 708; increase all MDAs 40 feet, S-LOC 18 Cats C and D visibility ⅛ SM and Circling Cat C visibility ¼ SM.

MALSR

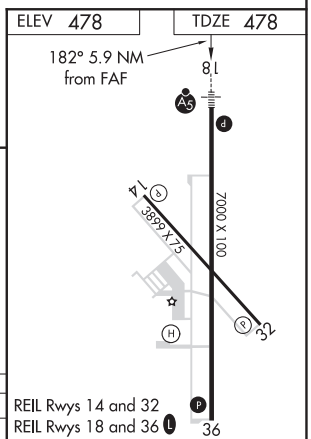
MISSED APPROACH: Climb to 1500 then climbing left turn to 2500 direct CATCH LOM and hold.

AWOS-3	LOUISVILLE APP CON	CLNC DEL	UNICOM
118.575	132.075 327.0	118.05	122.7 (CTAF) L





Autopilot coupled approach NA below 1145 feet.



CATEGORY	A	B	C	D
S-ILS 18	678-½ 200 (200-½)			
S-LOC 18	980-½ 502 (600-½)		980-1 502 (600-1)	
C CIRCLING	1000-1 522 (600-1)	1040-1 562 (600-1)	1060-1½ 582 (600-1½)	1100-2 622 (700-2)

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

JEFFERSONVILLE, INDIANA | AL-6715 (FAA) | 19339

WAAS CH 82426 W18A	APP CRS 182°	Rwy ldg 7000 TDZE 476 Apt Elev 476

RNAV (GPS) RWY 18
CLARK RGNL (JVY)

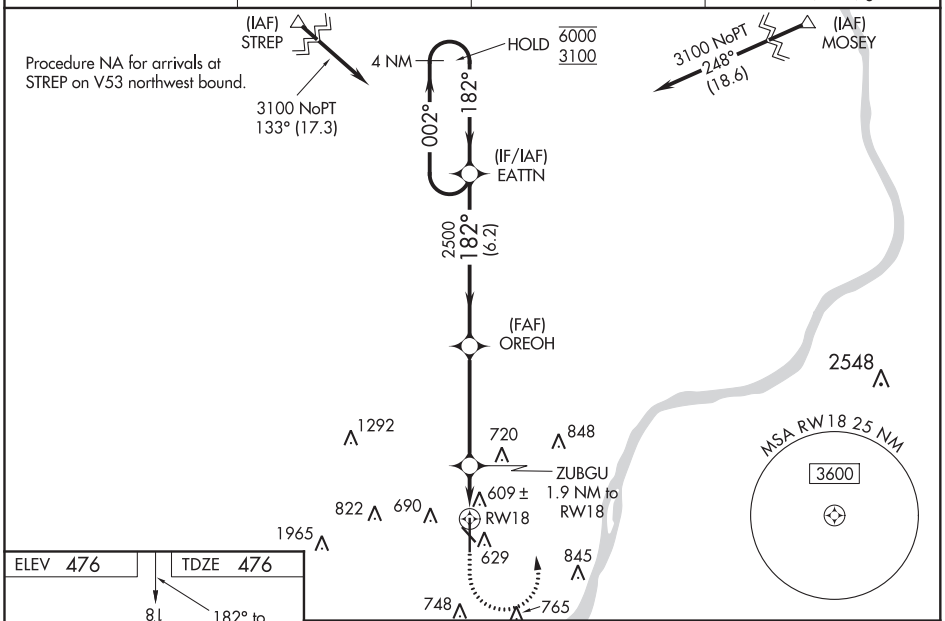
RNP APCH.

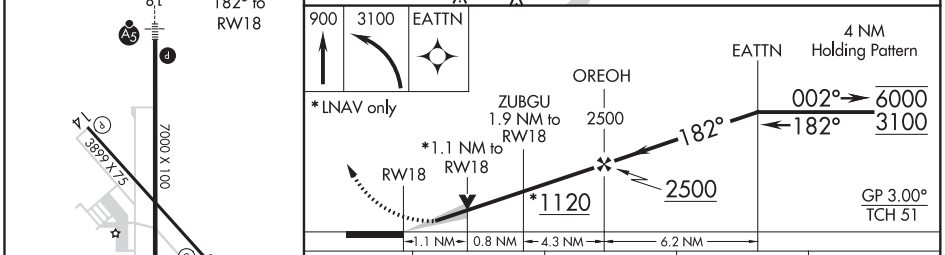
Circling NA for Cat D southwest of Rwys 14 and 36. Circling Rwy 14, 32 NA at night. Baro-VNAV and VDP NA when using Louisville Muhammad Ali Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LNAV/VNAV visibility to 1 SM. When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting: increase all DA 30 feet and LNAV/VNAV visibility ⅛ SM; increase all MDAs 40 feet, LNAV visibility Cats C and D ⅛ SM and Circling visibility Cat C ¼ SM. For inop ALS when using Louisville Muhammad Ali Intl altimeter setting, increase LNAV/VNAV visibility to 1⅛ SM.

MALSR

MISSED APPROACH: Climb to 900 then climbing left turn to 3100 direct EATTN and hold.

AWOS-3	LOUISVILLE APP CON	CLNC DEL	UNICOM
118.575	132.075 327.0	118.05	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	676-½ 200 (200-½)			
LNAV/VNAV DA	850-⅝ 374 (400-⅝)			
LNAV MDA	860-½ 384 (400-½)		860-⅝ 384 (400-⅝)	
C CIRCLING	1000-1 524 (600-1)	1040-1 564 (600-1)	1060-1½ 584 (600-1½)	1100-2 624 (700-2)

REIL Rwys 14 and 32
REIL Rwys 18 and 36 L
MIRL Rwys 14-32 and 18-36

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

LOM JV	APP CRS	Rwy ldg	7000
331	182°	TDZE	476
		Apt Elev	476

NDB RWY 18
CLARK RGNL (JVY)

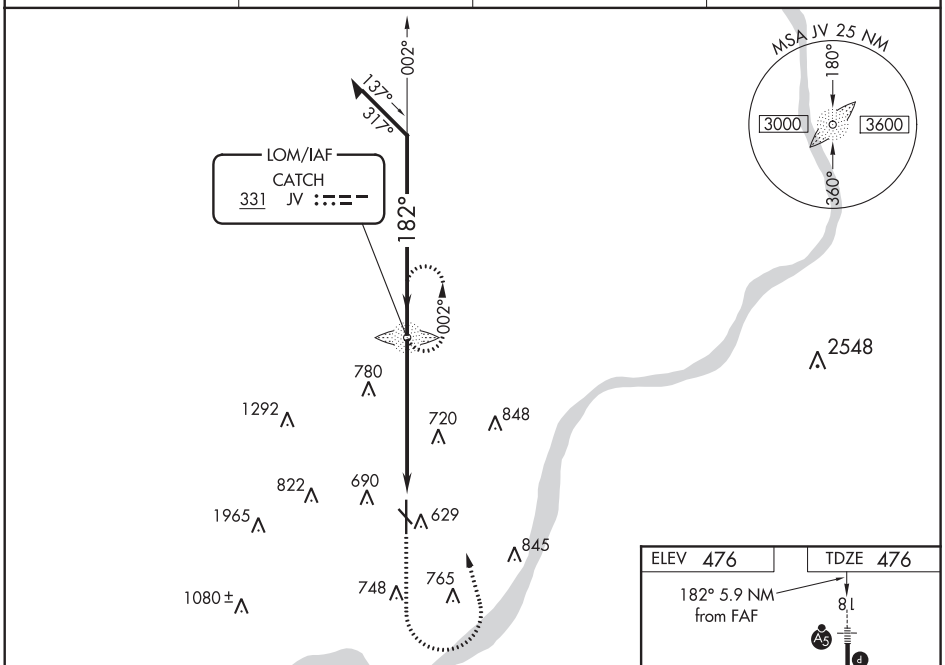
RADAR required for procedure entry.

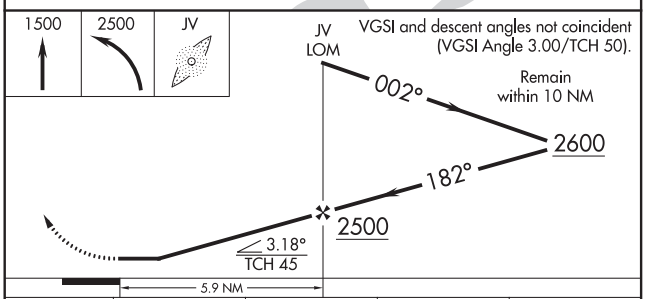
T A NA Circling NA for Cat D southwest of Rwys 14 and 36. Circling Rwy 14, 32 NA at night. For inop ALS, increase S-18 Cats A and B visibility to 1 SM and Cats C and D to 1¾ SM. When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting and increase all MDAs 40 feet and Circling visibility Cat C ⅛ SM. For inop ALS when using Louisville Muhammad Ali Intl altimeter setting, increase S-18 Cats A and B visibility to 1 SM.

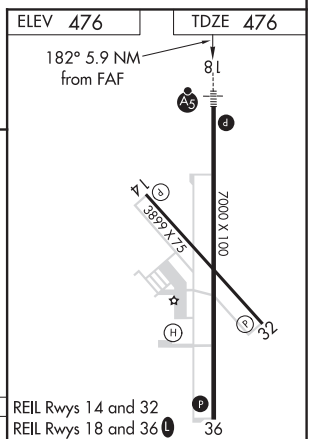
MALSR

MISSED APPROACH: Climb to 1500 then climbing left turn to 2500 direct CATCH LOM and hold.

AWOS-3	LOUISVILLE APP CON	CLNC DEL	UNICOM
118.575	132.075 327.0	118.05	122.7 (CTAF) L







CATEGORY	A	B	C	D
S-18	1080-¾ 604 (700-¾)		1080-1⅜ 604 (700-1⅜)	
C CIRCLING	1080-1 604 (700-1)		1080-1¾ 604 (700-1¾)	1100-2 624 (700-2)

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

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KENDALLVILLE, INDIANA AL-5896 (FAA) 18144

RNAV (GPS) RWY 10

KENDALLVILLE MUNI (C62)

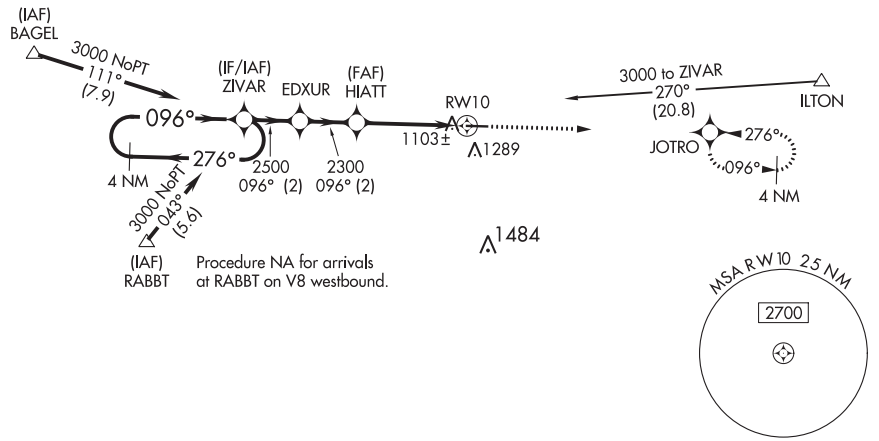
WAAS Ch 40035 W10A	APP CRS 096°	Rwy ldg 4399 TDZE 999 Apt Elev 1004

RNP APCH.

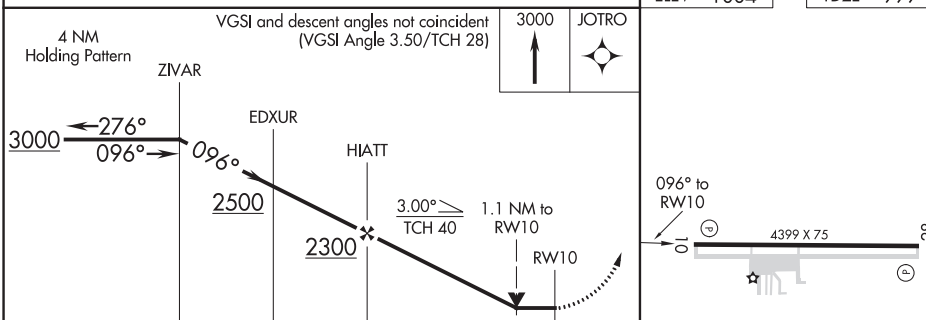
Circling to Rwy 28 NA at night. Rwy 10 helicopter visibility reduction below ¾ SM NA. VDP NA when using Fort Wayne altimeter setting. When local altimeter setting not received, use Fort Wayne altimeter setting and increase all MDAs 100 feet.

MISSED APPROACH: Climb to 3000 direct JOTRO and hold.

AWOS-3P	FORT WAYNE APP CON	UNICOM
119.925	127.2 284.6	122.8 (CTAF) L



ELEV 1004 TDZE 999



CATEGORY	A	B	C	D
LP MDA	1360-1	361 (400-1)	NA	
LNAV MDA	1440-1	441 (500-1)	NA	
C CIRCLING	1600-1	596 (600-1)	NA	

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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WAAS CH **90135** **W28A**	APP CRS **276°**	Rwy ldg **4399** TDZE **1004** Apt Elev **1004**

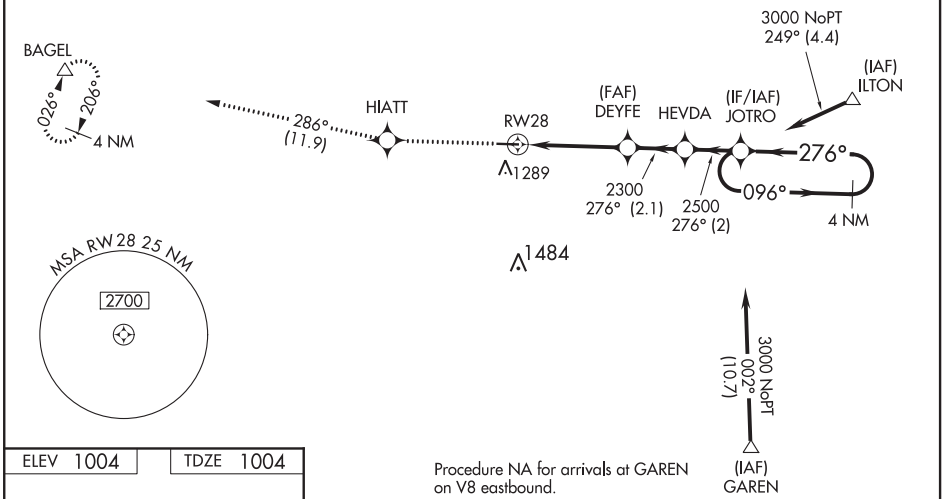
RNAV (GPS) RWY 28
KENDALLVILLE MUNI (C62)

RNP APCH.

Baro-VNAV NA when using Fort Wayne altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Rwy 28 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 28 NA at night, Circling Rwy 28 NA at night. When local altimeter setting not received, use Fort Wayne altimeter setting and increase all DAs 96 feet and all MDAs 100 feet; increase LPV all Cats visibility ⅜ mile and LNAV/VNAV all Cats visibility ¼ mile.

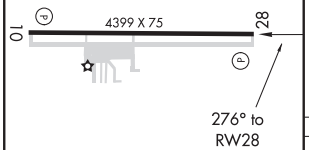
MISSED APPROACH: Climb to 3000 direct HIATT and on track 286° to BAGEL and hold.

AWOS-3P	FORT WAYNE APP CON	UNICOM
119.925	**127.2 284.6**	**122.8** (CTAF) L

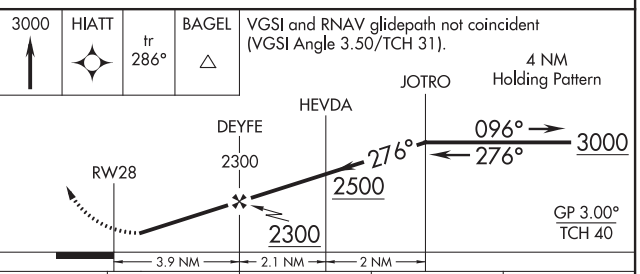


Procedure NA for arrivals at GAREN on V8 eastbound.

ELEV 1004 TDZE 1004



MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L



CATEGORY	A	B	C	D
LPV DA	1352-1⅛	348 (400-1⅛)	NA	
LNAV/VNAV DA	1276-1	272 (300-1)	NA	
LNAV MDA	1520-1	516 (600-1)	NA	
C CIRCLING	1600-1	596 (600-1)	NA	

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KENT, OHIO | AL-5397 (FAA) | 19283

WAAS CH 61001 W01A	APP CRS 016°	Rwy ldg 3947 TDZE 1129 Apt Elev 1134

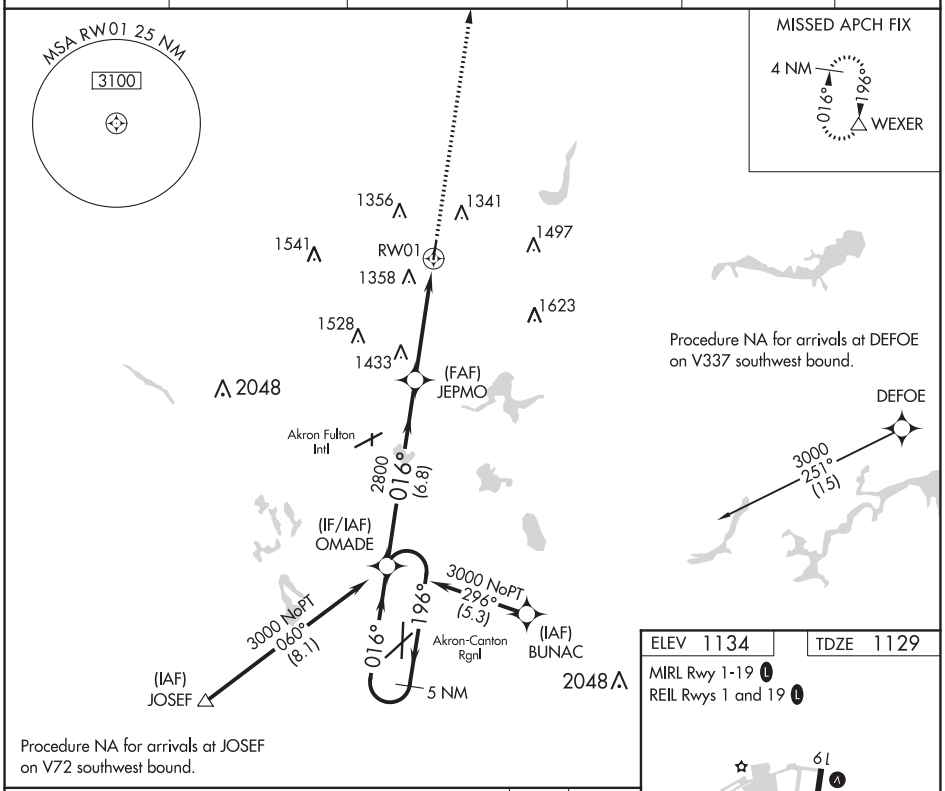
RNAV (GPS) RWY 1
KENT STATE UNIVERSITY (1G3)

RNP APCH.

NA Rwy 1 helicopter visibility reduction below ¾ SM NA. Use Akron Fulton Intl altimeter setting; when not received use Akron-Canton Rgnl altimeter setting and increase all DA/MDAs 20 feet.

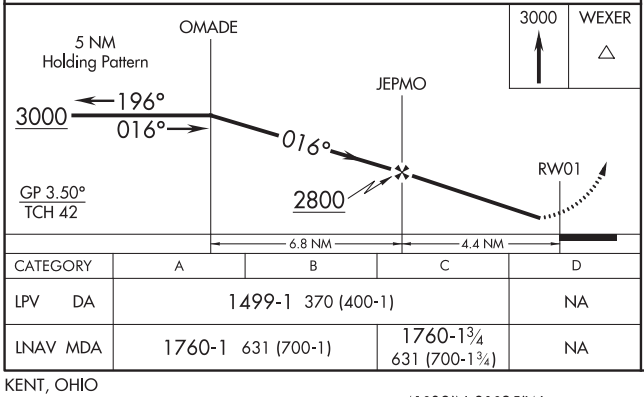
MISSED APPROACH: Climb to 3000 direct WEXER and hold.

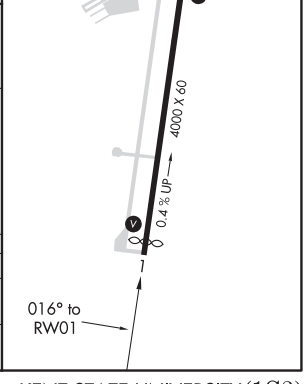
AWOS-2	AKR ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM	
119.15	126.825	118.6 371.875	125.65	122.725 (CTAF)	122.9 L



ELEV 1134	TDZE 1129

MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L





CATEGORY	A	B	C	D
LPV DA	1499-1 370 (400-1)			NA
LNAV MDA	1760-1 631 (700-1)		1760-1¾ 631 (700-1¾)	NA

KENT, OHIO
Amdt 2A 15AUG19

41°09′N-81°25′W

KENT STATE UNIVERSITY (1G3)
RNAV (GPS) RWY 1

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WAAS CH 65701 W19A	APP CRS 196°	Rwy ldg 4000 TDZE 1134 Apt Elev 1134

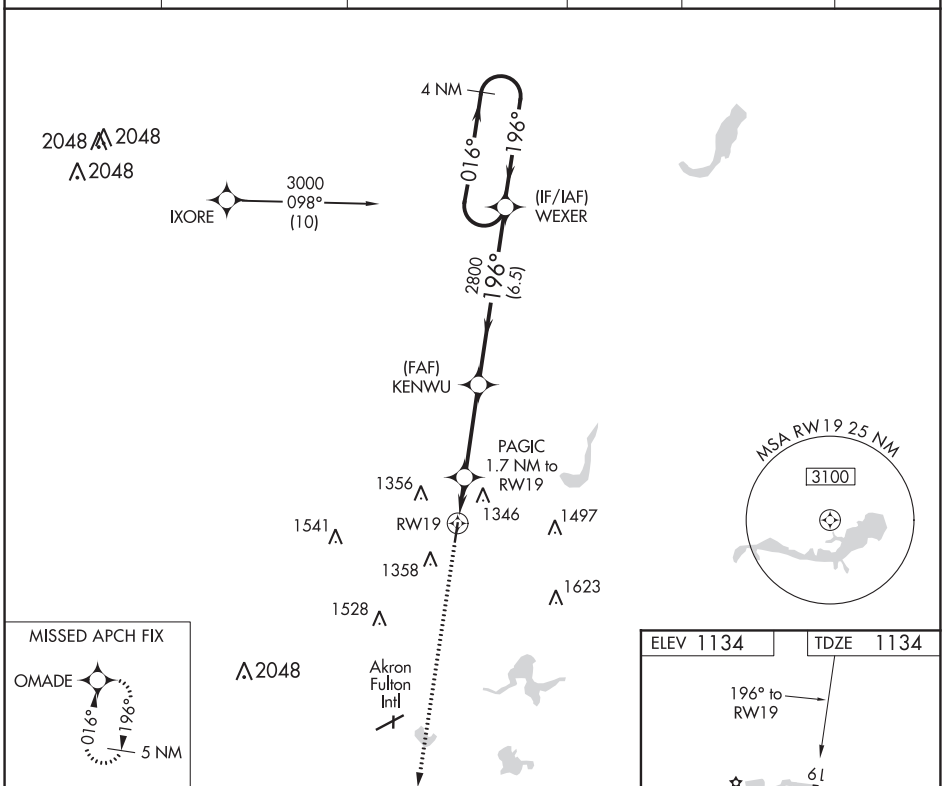
RNAV (GPS) RWY 19
KENT STATE UNIVERSITY (1G3)

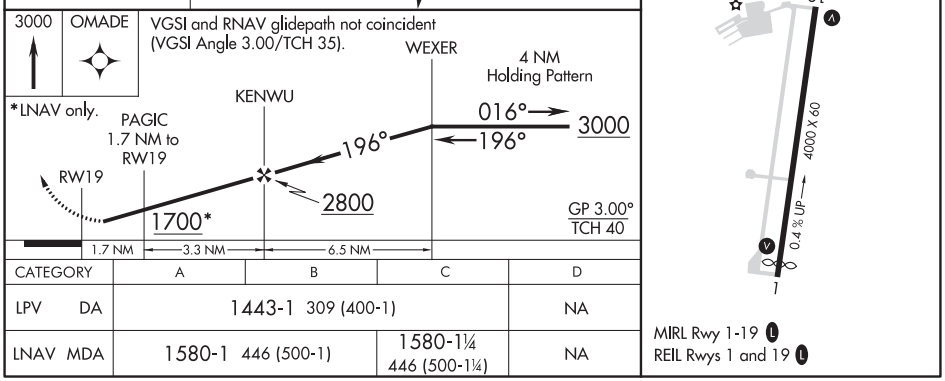
RNP APCH.

NA Rwy 19 helicopter visibility reduction below ¾ SM NA. Use Akron Fulton Intl altimeter setting; if not received use Akron-Canton Rgnl altimeter setting, and increase all DAs/MDAs 20 feet. Baro-VNAV NA.

MISSED APPROACH: Climb to 3000 direct OMADE and hold.

AWOS-2	AKR ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM	
119.15	126.825	118.6 371.875	125.65	122.725 (CTAF)	122.9 L





CATEGORY	A	B	C	D
LPV DA	1443-1 309 (400-1)			NA
LNAV MDA	1580-1 446 (500-1)		1580-1¼ 446 (500-1¼)	NA

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KENT, OHIO | AL-5397 (FAA) | 19283

VOR-A

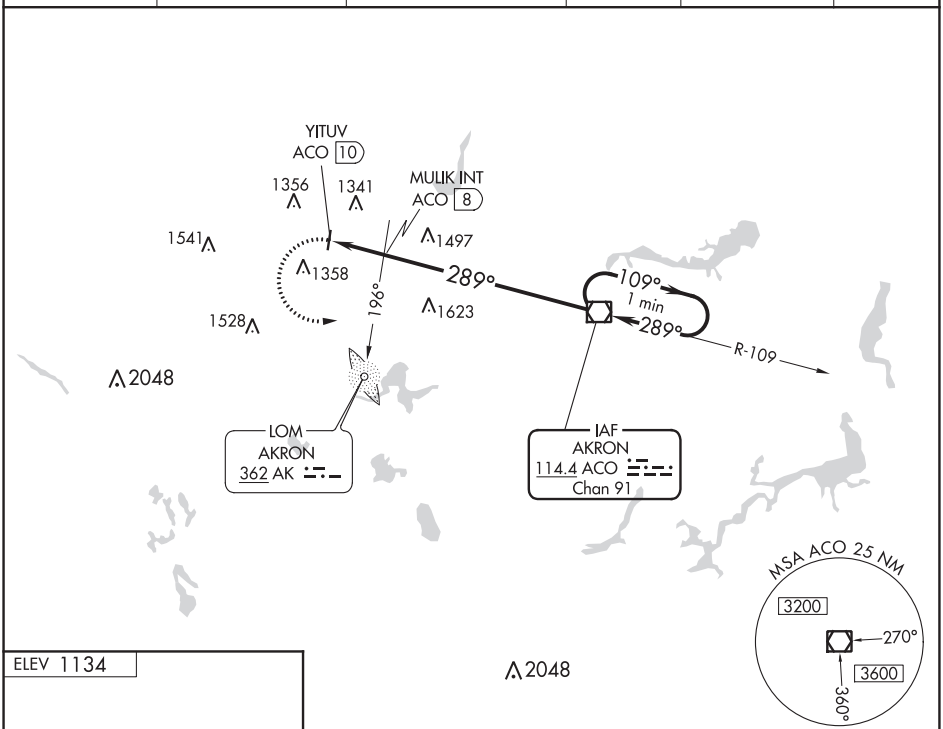
KENT STATE UNIVERSITY (1G3)

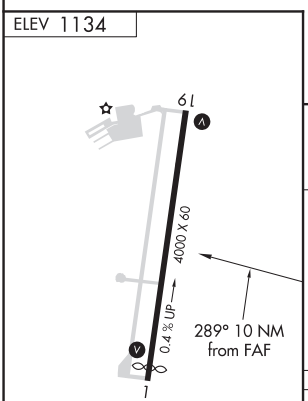
VOR/DME ACO 114.4 Chan 91	APP CRS 289°	Rwy ldg N/A TDZE N/A Apt Elev 1134

Use Akron Fulton altimeter setting; when not received, use Akron-Canton Rgnl altimeter setting.

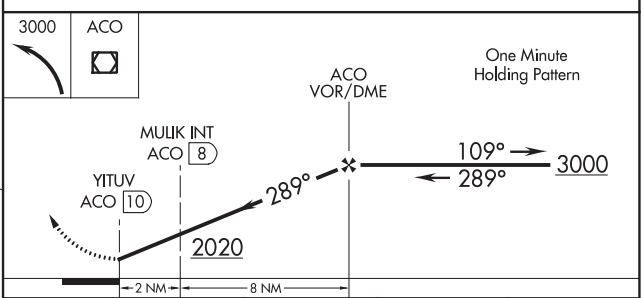
MISSED APPROACH: Climbing left turn to 3000 direct ACO VOR/DME and hold.

AWOS-2	AKR ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM	
119.15	126.825	118.6 371.875	125.65	122.725 (CTAF)	122.9 L





MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L



FAF to MAP 10 NM					
Knots	60	90	120	150	180
Min:Sec	10:00	6:40	5:00	4:00	3:20

MULIK FIX MINIMUMS (ADF OR DME REQUIRED)				
CATEGORY	A	B	C	D
CIRCLING	2020-1¼ 886 (900-1¼)		2020-2¾ 886 (900-2¾)	NA
CIRCLING	1760-1 626 (700-1)		1760-1¾ 626 (700-1¾)	NA

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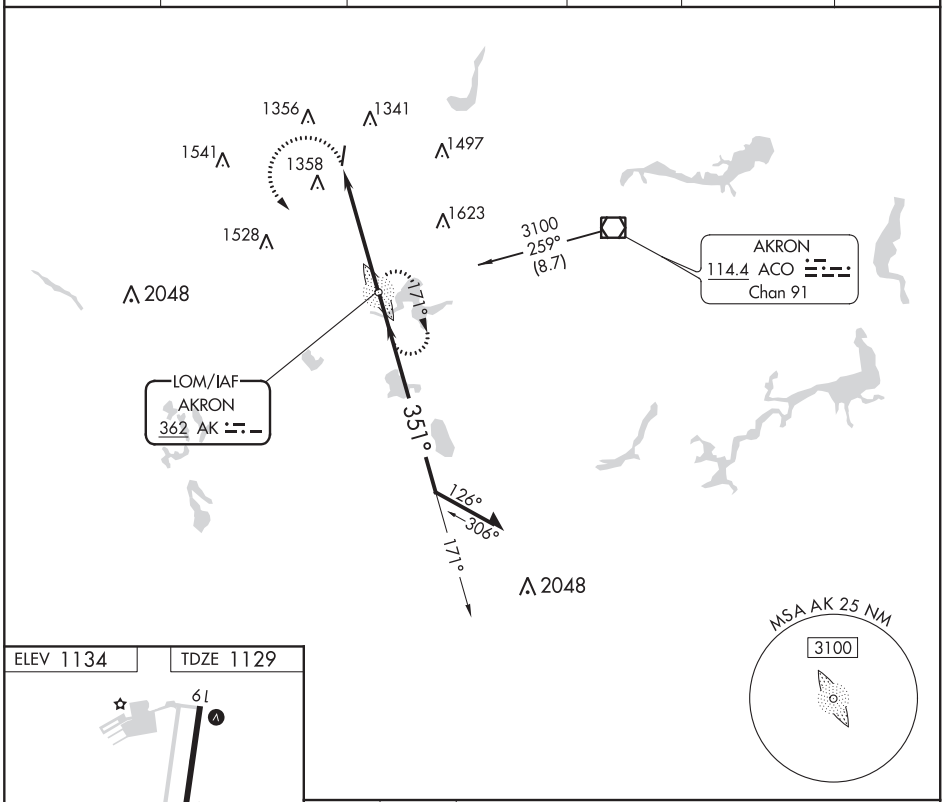
NDB RWY 1
KENT STATE UNIVERSITY (1G3)

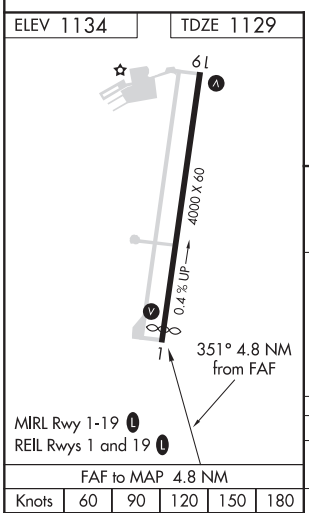
LOM AK	APP CRS	Rwy ldg	3947
362	351°	TDZE	1129
		Apt Elev	1134

T NA Use Akron Fulton altimeter setting; when not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 20 feet. Rwy 1 helicopter visibility reduction below ¾ SM NA.

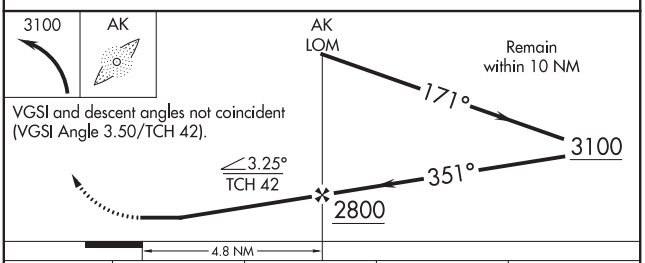
MISSED APPROACH: Climbing left turn to 3100 direct AKRON LOM and hold.

AWOS-2	AKR ASOS	CLEVELAND APP CON★	CLNC DEL	UNICOM	122.9 L
119.15	126.825	118.6 371.875	125.65	122.725 (CTAF)	





FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36



VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 42).

CATEGORY	A	B	C	D
S-1	1760-1	631 (700-1)	1760-1⅞ 631 (700-1⅞)	NA
CIRCLING	1760-1	626 (700-1)	1760-1⅞ 626 (700-1⅞)	NA

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EC-2, 25 FEB 2021 to 22 APR 2021

KENTLAND, INDIANA

AL-6325 (FAA)

19283

RNAV (GPS) RWY 27

KENTLAND MUNI (5ØI)

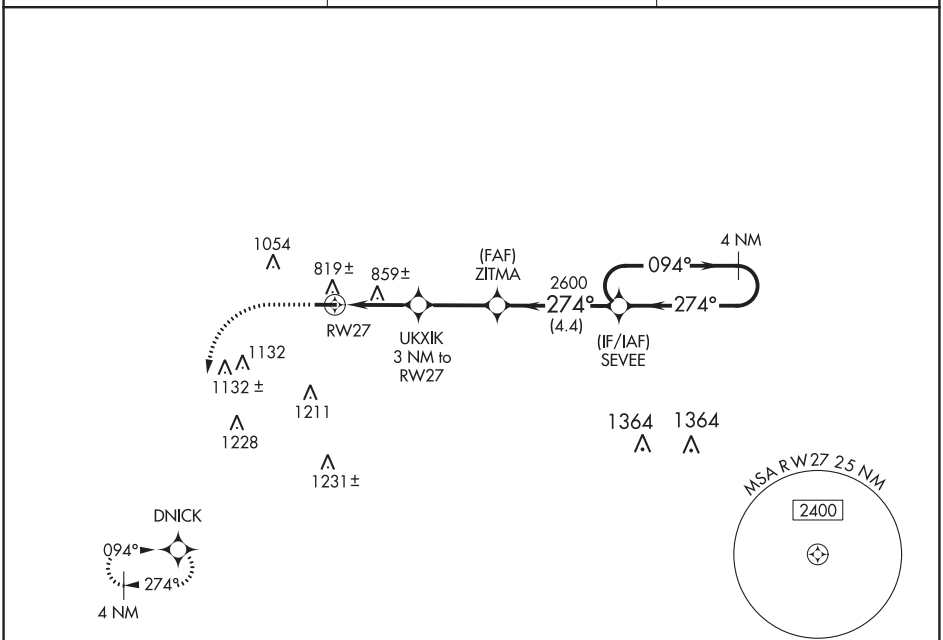
WAAS CH 42541 W27A	APP CRS 274°	Rwy ldg 4004 TDZE 699 Apt Elev 699

T
A NA

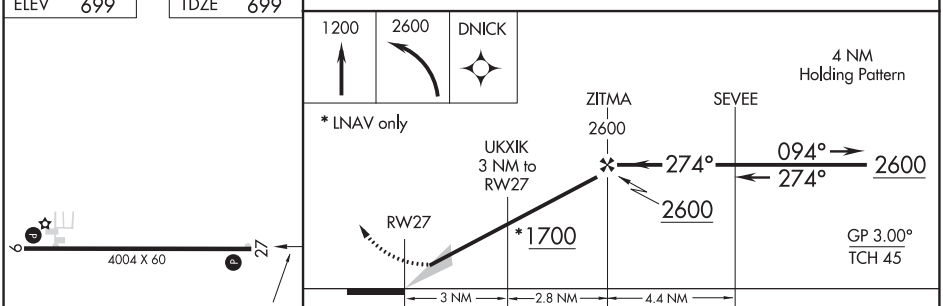
Circling to Rwy 09 NA at night. Circling NA north of Rwy 27-09. DME/DME RNP-0.3 NA. Baro-VNAV NA. Use Jasper County altimeter setting.

MISSED APPROACH: Climb to 1200 then climbing left turn to 2600 direct DNICK and hold.

RZL AWOS-3P	CHICAGO CENTER	UNICOM
119.175	132.5 284.7	122.8 (CTAF) L



ELEV 699	TDZE 699



CATEGORY	A	B	C	D
LPV DA	986-1 287 (300-1)			NA
LNAV/VNAV DA	1006-1 307 (400-1)			NA
LNAV MDA	1160-1 461 (500-1)		1160-1⅜ 461 (500-1⅜)	NA
C CIRCLING	1160-1 461 (500-1)	1200-1 501 (600-1)	1200-1½ 501 (600-1½)	NA

HIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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APP CRS	Rwy ldg	4797
046°	TDZE	1029
	Apt Elev	1029

RNAV (GPS) RWY 4
HARDIN COUNTY (I95)

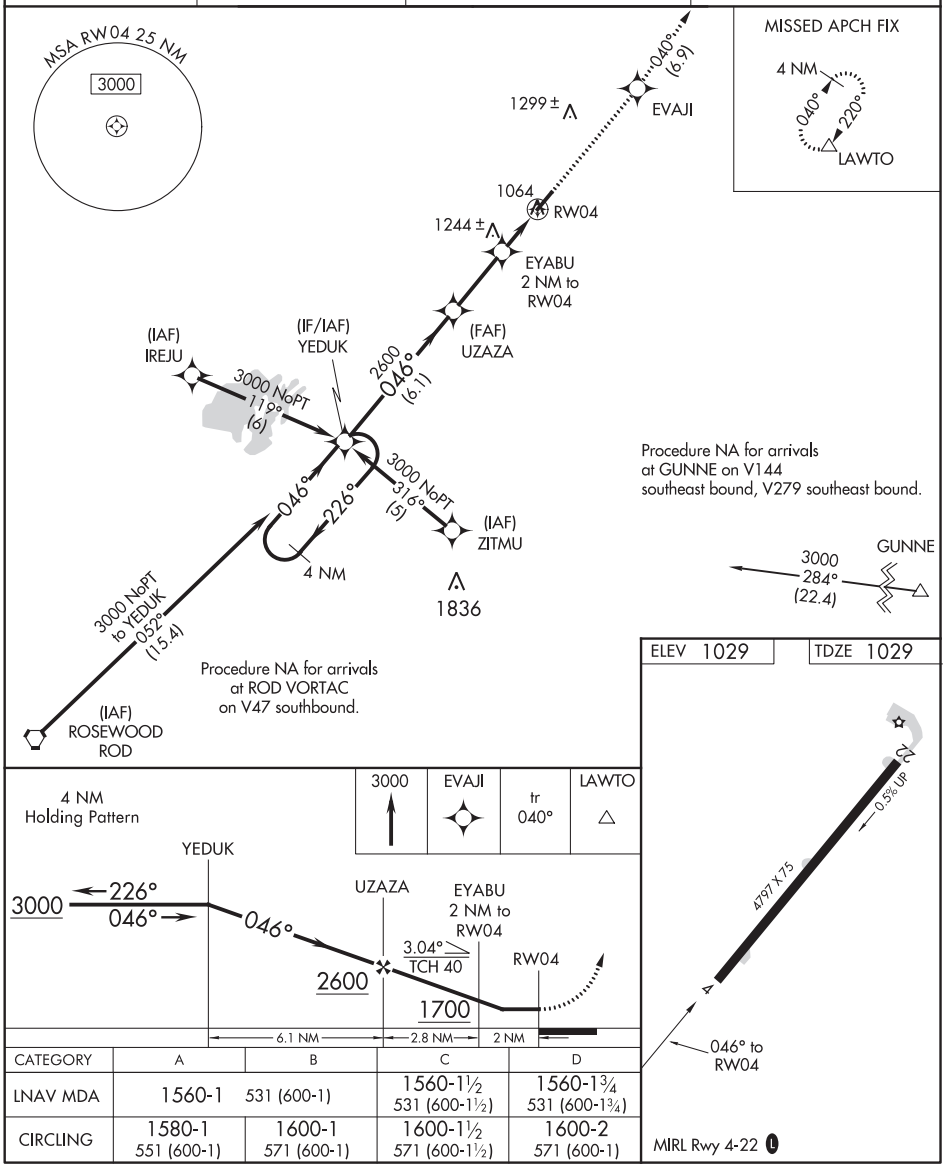
RNP APCH.

NA

Rwy 4 helicopter visibility reduction below 1 SM NA.
Procedure NA at night. Use Lima altimeter setting.

MISSED APPROACH:
Climb to 3000 direct EVAJI and on track 040° to LAWTO and hold.

AWOS-2	AOH ASOS	COLUMBUS APP CON	UNICOM
126.4	128.725	118.425 323.15	122.8 (CTAF) L ★



CATEGORY	A	B	C	D
LNAV MDA	1560-1 531 (600-1)		1560-1½ 531 (600-1½)	1560-1¾ 531 (600-1¾)
CIRCLING	1580-1 551 (600-1)	1600-1 571 (600-1)	1600-1½ 571 (600-1½)	1600-2 571 (600-1)

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KENTON, OHIO | AL-6473 (FAA) | 20198

RNAV (GPS) RWY 22
HARDIN COUNTY (I95)

APP CRS	Rwy ldg	4797
226°	TDZE	1022
	Apt Elev	1029

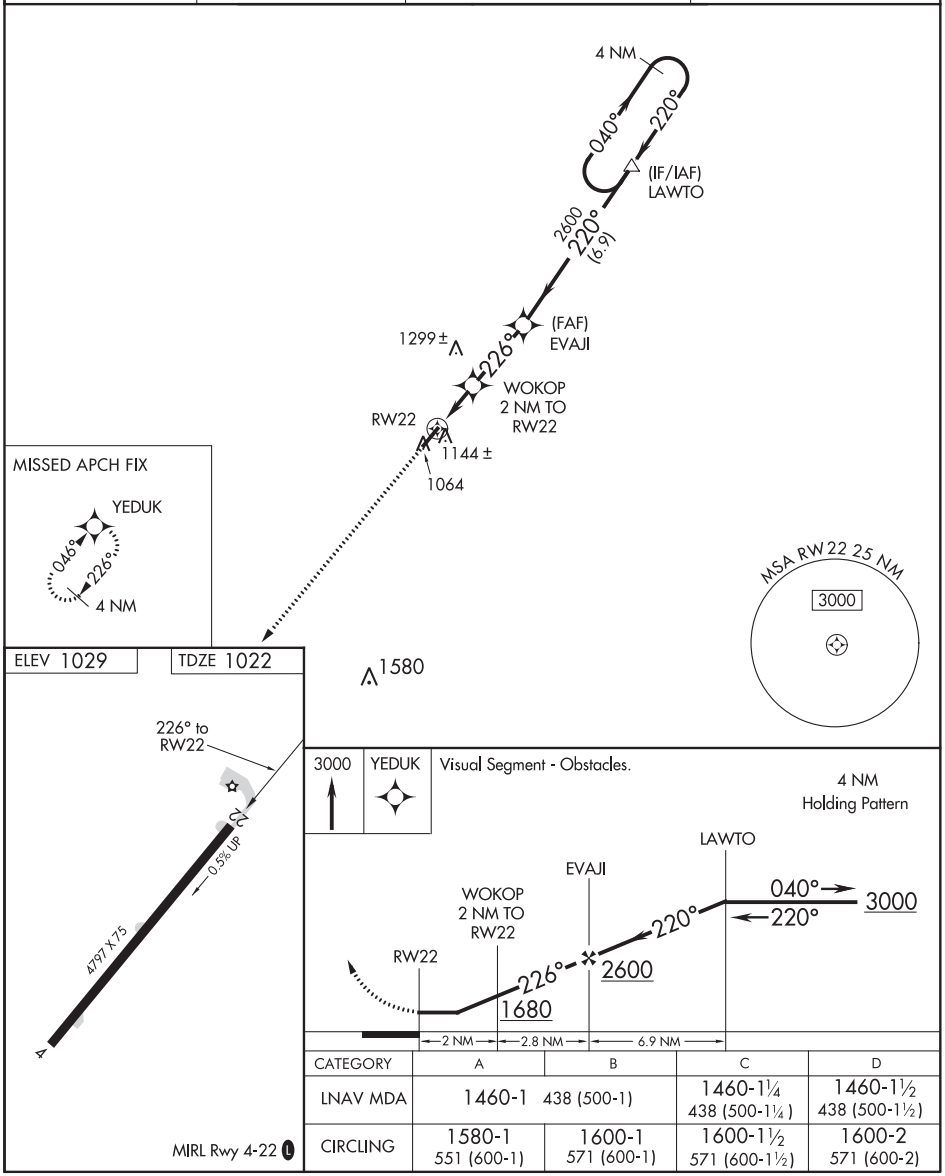
RNP APCH.

NA

Rwy 22 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Use Lima altimeter setting.

MISSED APPROACH: Climb to 3000 direct YEDUK and hold.

AWOS-2	AOH ASOS	COLUMBUS APP CON	UNICOM
126.4	128.725	118.425 323.15	122.8 (CTAF) L ★



MIRL Rwy 4-22 L

CATEGORY	A	B	C	D
LNAV MDA	1460-1 438 (500-1)		1460-1¼ 438 (500-1¼)	1460-1½ 438 (500-1½)
CIRCLING	1580-1 551 (600-1)	1600-1 571 (600-1)	1600-1½ 571 (600-1½)	1600-2 571 (600-2)

KENTON, OHIO
Orig-A 24MAY18

40°37′N - 83°39′W

HARDIN COUNTY (I95)
RNAV (GPS) RWY 22

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 18
STARKE COUNTY (OXI)

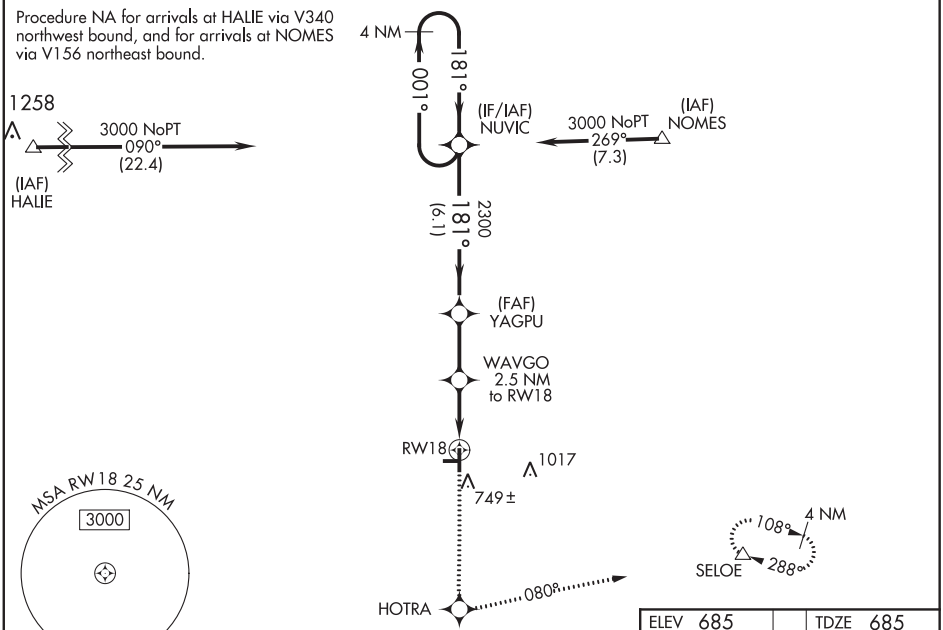
WAAS CH 87108 W18A	APP CRS 181°	Rwy ldg 5001 TDZE 685 Apt Elev 685

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Baro-VNAV and VDP NA when using South Bend altimeter setting. Obtain local altimeter setting on CTAF, when not received use South Bend altimeter setting and increase all MDA/DA 80 feet, increase LPV and LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat C, D visibilities ¼ mile.

MISSED APPROACH: Climb to 3000 direct HOTRA and left turn via 080° track to SELOE and hold.

AWOS-3	SOUTH BEND APP CON*	UNICOM
135.775	132.05 257.8	122.8 (CTAF)

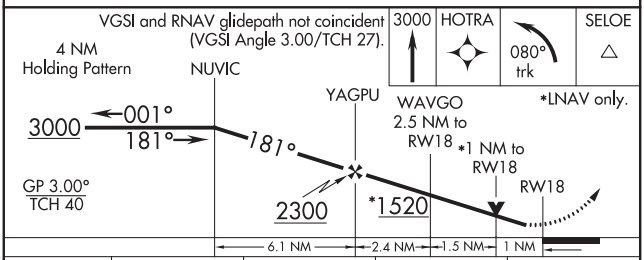
Procedure NA for arrivals at HALIE via V340 northwest bound, and for arrivals at NOMES via V156 northeast bound.

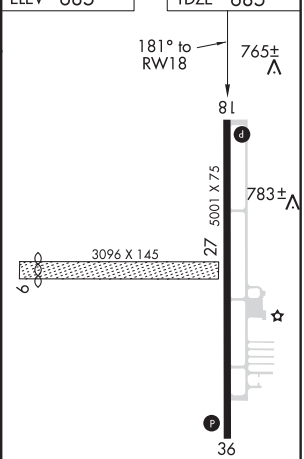


VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 27).

3000	HOTRA	080° trk	SELOE

*LNAV only.





MIRL Rwy 18-36
REIL Rwys 18 and 36

CATEGORY	A	B	C	D
LPV DA	935-1 250 (300-1)			
LNAV/VNAV DA	1035-1¼ 350 (400-1¼)			
LNAV MDA	1040-1 355 (400-1)			1040-1¼ 355 (400-1¼)
CIRCLING	1100-1 415 (500-1)	1140-1 455 (500-1)	1140-1½ 455 (500-1½)	1240-2 555 (500-2)

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KOKOMO, INDIANA | AL-711 (FAA) | 20086

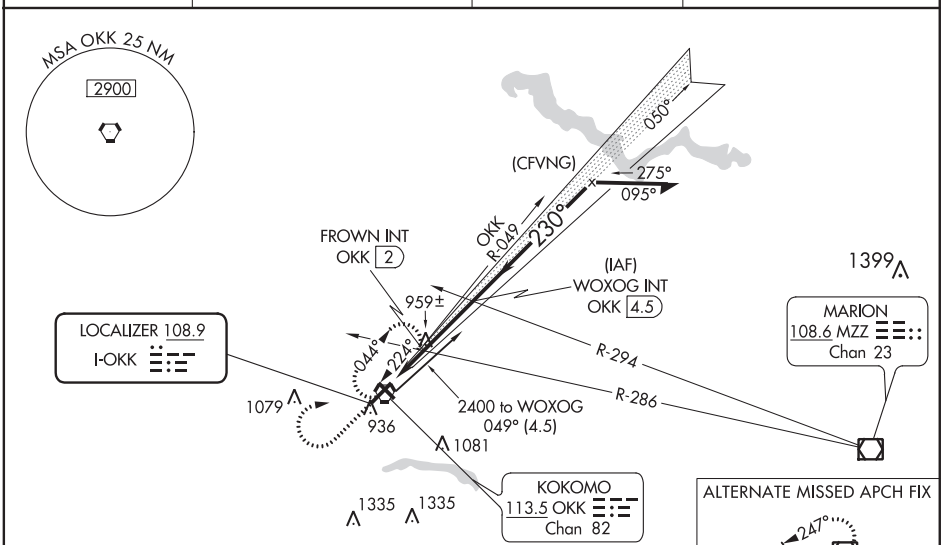
ILS or LOC RWY 23
KOKOMO MUNI (OKK)

LOC I-OKK	APP CRS	Rwy ldg / TDZE / Apt Elev
108.9	230°	6001 / 827 / 832

MALSR

MISSED APPROACH: Climb to 2400 then climbing right turn to 2600 direct OKK VORTAC and hold.

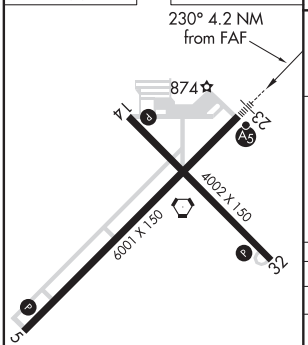
AWOS-3PT	GRISSOM APP CON*	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L



Procedure NA for arrival on OKK VORTAC airway radials 011 CW 107.

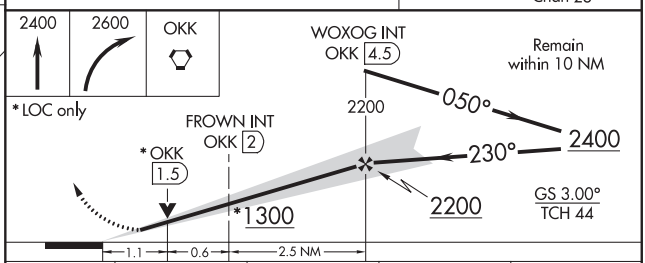
ELEV 832 | TDZE 827

230° 4.2 NM from FAF



MIRL Rwy 14-32 L
REIL Rwys 5 and 14 L
HIRL Rwy 5-23 L

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24



CATEGORY	A	B	C	D
S-ILS 23	1027-½ 200 (200-½)			
S-LOC 23	1300-½ 473 (500-½)		1300-1 473 (500-1)	
C CIRCLING	1300-1 468 (500-1)		1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)
FROWN FIX MINIMUMS (DUAL VOR RECEIVERS or DME REQUIRED)				
S-LOC 23	1220-½ 393 (400-½)		1220-¾ 393 (400-¾)	
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)

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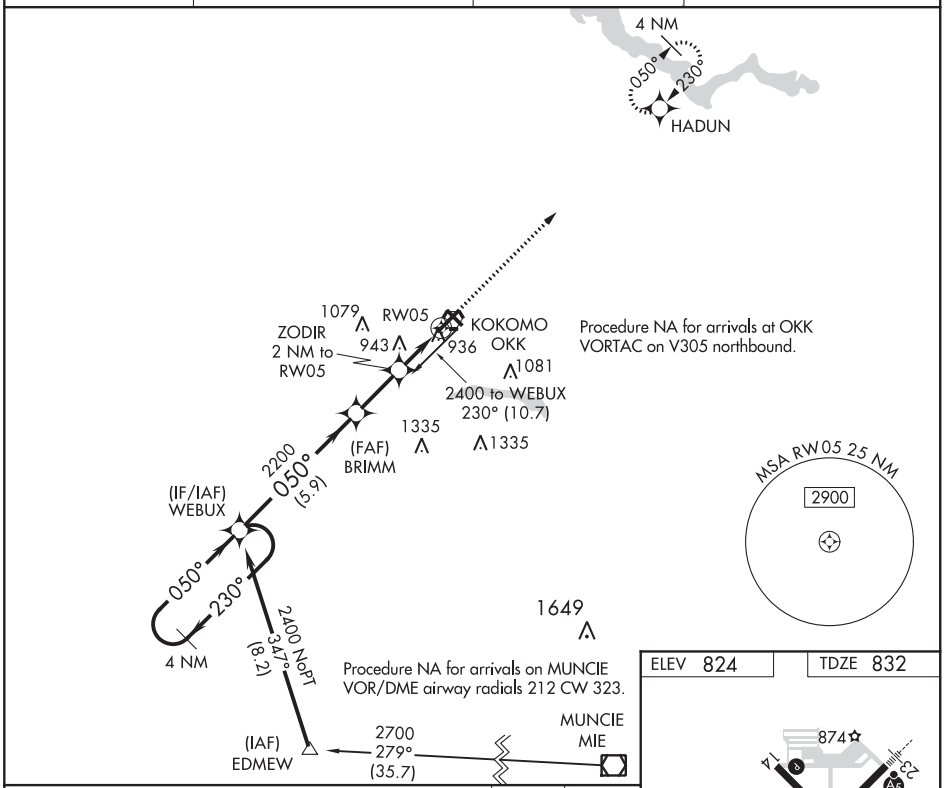
WAAS CH 78139 W05A	APP CRS 050°	Rwy ldg 6001 TDZE 832 Apt Elev 824

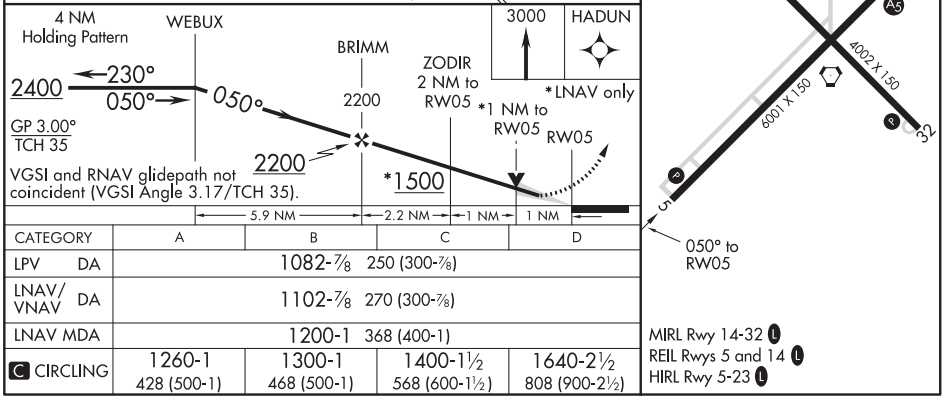
RNAV (GPS) RWY 5
KOKOMO MUNI (OKK)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct HADUN and hold.

AWOS-3PT	GRISSOM APP CON*	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1082-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1102-⅞ 270 (300-⅞)			
LNAV MDA	1200-1 368 (400-1)			
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)

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KOKOMO, INDIANA | AL-711 (FAA) | 20030

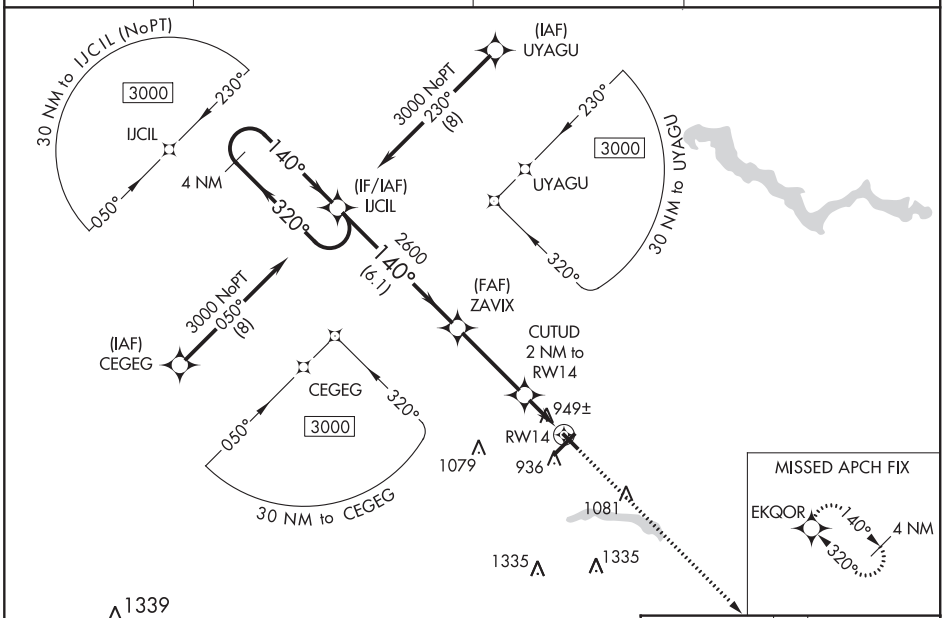
RNAV (GPS) RWY 14
KOKOMO MUNI (OKK)

WAAS CH 78134 W14A	APP CRS 140°	Rwy ldg 4002 TDZE 826 Apt Elev 832

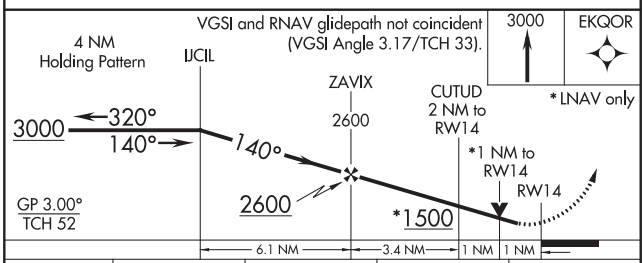
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct EKQOR and hold.

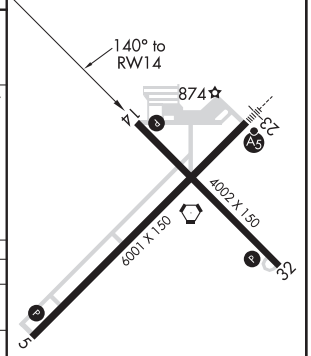
AWOS-3PT	GRISSOM APP CON*	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L



ELEV 832 | TDZE 826



CATEGORY	A	B	C	D
LPV DA	1076-1 250 (300-1)			
LNAV/VNAV DA	1199-1¼ 373 (400-1¼)			
LNAV MDA	1200-1 374 (400-1)			
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)



MIRL Rwy 14-32 L
REIL Rwys 5 and 14 L
HIRL Rwy 5-23 L

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WAAS CH 40119 W23A	APP CRS 230°	Rwy ldg 6001 TDZE 827 Apt Elev 832

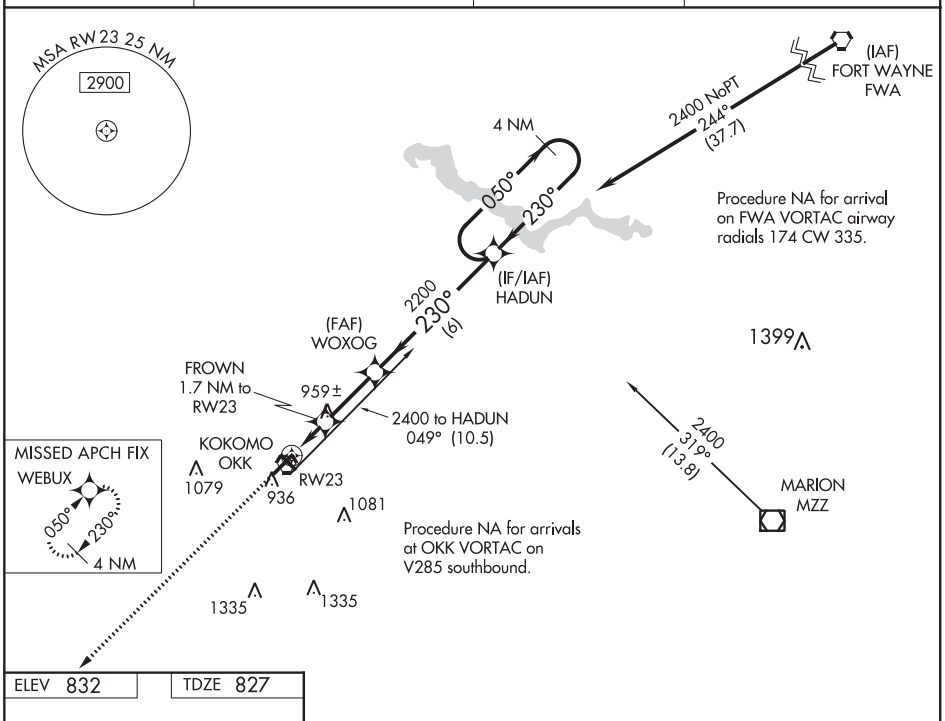
RNAV (GPS) RWY 23
KOKOMO MUNI (OKK)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

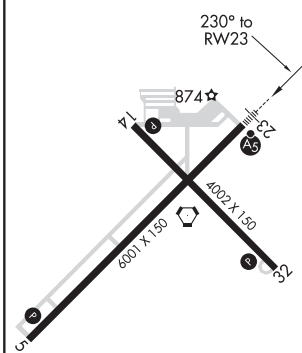
MALSR

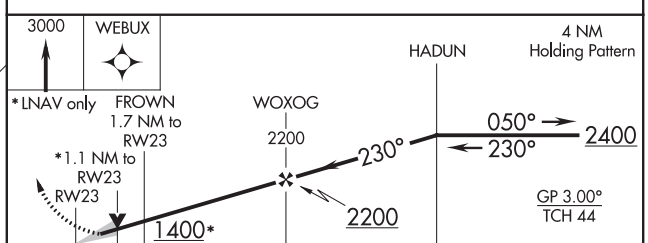
MISSED APPROACH: Climb to 3000 direct WEBUX and hold.

AWOS-3PT	GRISSOM APP CON★	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L



ELEV 832 TDZE 827





CATEGORY	A	B	C	D
LPV DA	1027-½ 200 (200-½)			
LNAV/VNAV DA	1224-⅞ 397 (400-⅞)			
LNAV MDA	1220-½ 393 (400-½)		1220-¾ 393 (400-¾)	
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)

MIRL Rwy 14-32 L
REIL Rwys 5 and 14 L
HIRL Rwy 5-23 L

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KOKOMO, INDIANA | AL-711 (FAA) | 20030

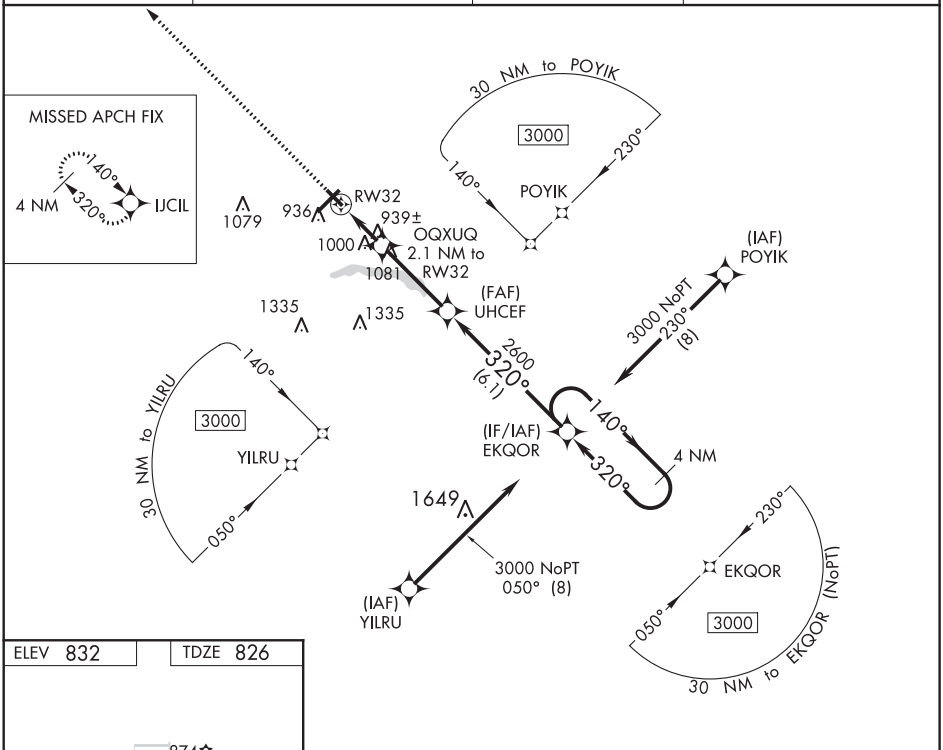
RNAV (GPS) RWY 32
KOKOMO MUNI (OKK)

WAAS CH 69534 W32A	APP CRS 320°	Rwy ldg 4002 TDZE 826 Apt Elev 832

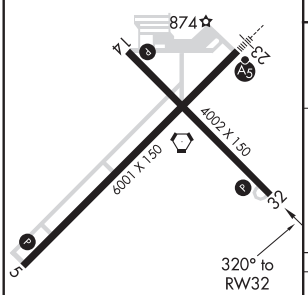
DME/DME RNP-0.3 NA.
Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct IJCIL and hold.

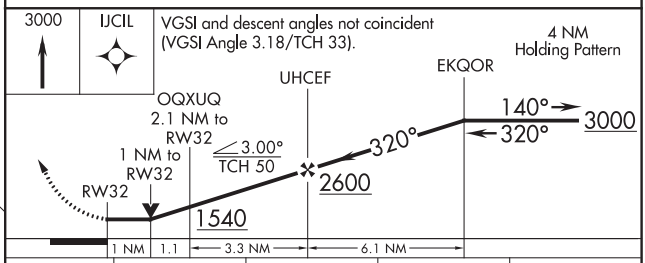
AWOS-3PT	GRISSOM APP CON★	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L



ELEV 832 | TDZE 826



MIRL Rwy 14-32 L
REIL Rwys 5 and 14 L
HIRL Rwy 5-23 L



CATEGORY	A	B	C	D
LP MDA	1200-1 374 (400-1)			
LNAV MDA	1260-1 434 (500-1)		1260-1¼ 434 (500-1¼)	
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)

KOKOMO, INDIANA
Orig-B 23JUN16

40°32′N-86°04′W

KOKOMO MUNI (OKK)
RNAV (GPS) RWY 32

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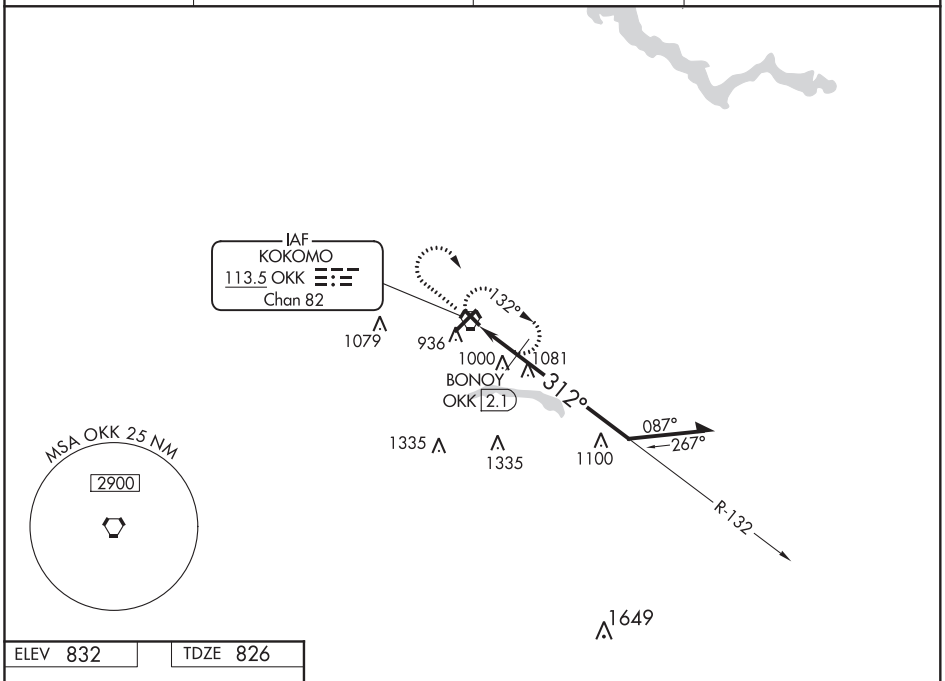
VORTAC OKK 113.5 Chan 82	APP CRS 312°	Rwy ldg 4002 TDZE 826 Apt Elev 832

VOR RWY 32
KOKOMO MUNI (OKK)

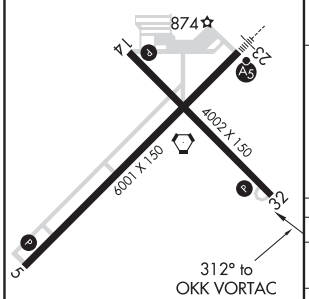
Rwy 32 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 then right turn direct OKK VORTAC and hold.

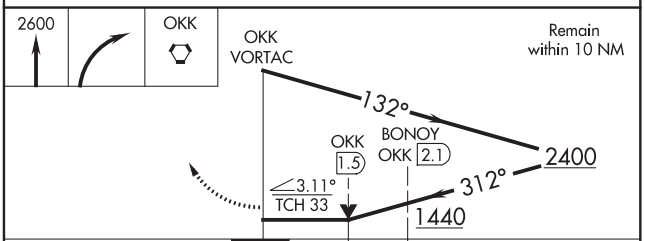
AWOS-3PT	GRISSOM APP CON★	CLNC DEL	UNICOM
113.5	121.05 338.275	120.0	123.0 (CTAF) L



ELEV 832 TDZE 826



MIRL Rwy 14-32 L
REIL Rwys 5 and 14 L
HIRL Rwy 5-23 L



CATEGORY	A	B	C	D
S-32	1440-1 614 (700-1)		1440-1¾ 614 (700-1¾)	
C CIRCLING	1440-1 608 (700-1)		1440-1¾ 608 (700-1¾)	1640-2½ 808 (900-2½)
BONOY FIX MINIMUMS				
S-32	1260-1 434 (500-1)		1260-1¼ 434 (500-1¼)	
C CIRCLING	1260-1 428 (500-1)	1300-1 468 (500-1)	1400-1½ 568 (600-1½)	1640-2½ 808 (900-2½)

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LA PORTE, INDIANA

AL-6248 (FAA)

20114

RNAV (GPS) RWY 2

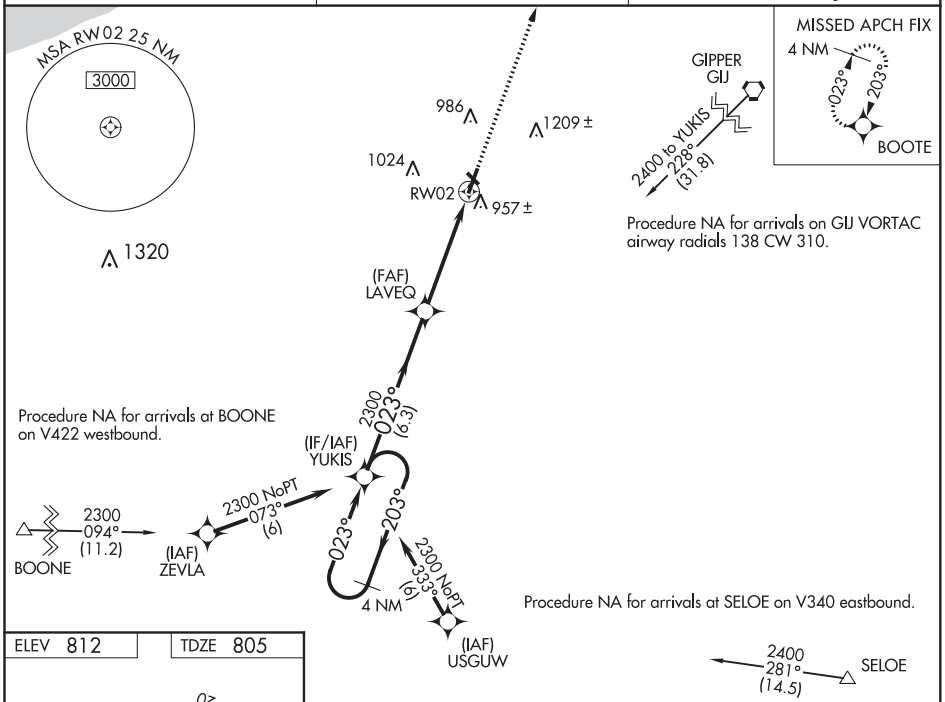
LA PORTE MUNI (PPO)

WAAS CH 77834 W02A	APP CRS 023°	Rwy ldg 5000 TDZE 805 Apt Elev 812

Baro-VNAV NA when using South Bend altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use South Bend altimeter setting and increase all DA 49 feet, and all MDA 60 feet; increase LNAV/VNAV all Cats and LNAV Cat C/D visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA. Circling Rwy 14, 32 NA at night.

MISSED APPROACH: Climb to 2500 direct BOOTE and hold.

AWOS-3	SOUTH BEND APP CON ★	UNICOM
119.825	132.05 257.8	123.0 (CTAF) L

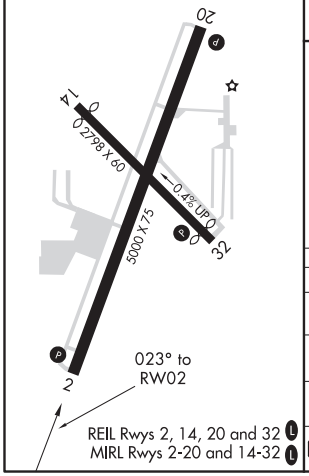


Procedure NA for arrivals on GIJ VORTAC airway radials 138 CW 310.

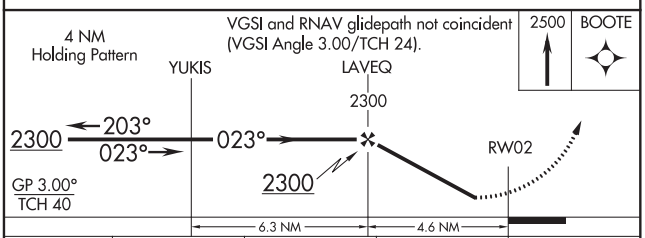
Procedure NA for arrivals at BOONE on V422 westbound.

Procedure NA for arrivals at SELOE on V340 eastbound.

ELEV 812 | TDZE 805



REIL Rwys 2, 14, 20 and 32 L
MIRL Rwys 2-20 and 14-32 L



CATEGORY	A	B	C	D
LPV DA	1067-1 262 (300-1)			
LNAV/VNAV DA	1220-1⅜ 415 (500-1⅜)			
LNAV MDA	1220-1 415 (500-1)		1220-1⅛ 415 (500-1⅛)	
C CIRCLING	1320-1 508 (600-1)		1560-2¼ 748 (800-2¼)	1560-2½ 748 (800-2½)

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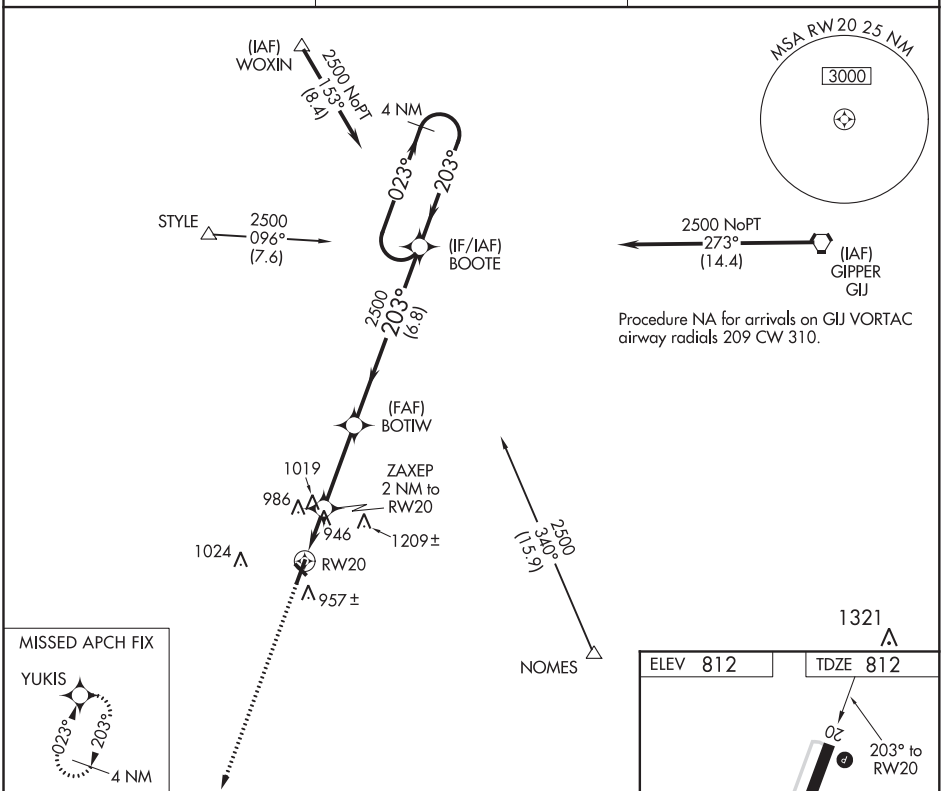
WAAS CH 87034 W20A	APP CRS 203°	Rwy ldg 5000 TDZE 812 Apt Elev 812

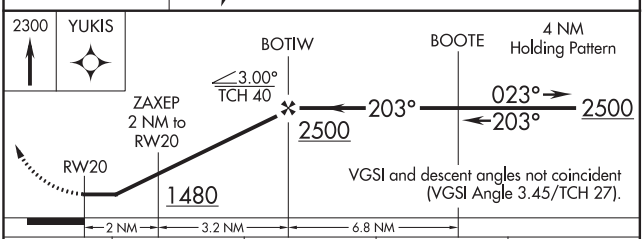
RNAV (GPS) RWY 20
LA PORTE MUNI (PPO)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use South Bend altimeter setting and increase all MDA 60 feet; increase LP Cat C/D and LNAV Cat C/D visibility ⅛ mile. Helicopter visibility reduction below ¾ SM NA. Circling Rwy 14, 32 NA at night.

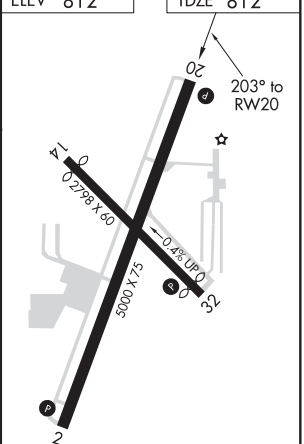
MISSED APPROACH: Climb to 2300 direct YUKIS and hold.

AWOS-3	SOUTH BEND APP CON ★	UNICOM
119.825	132.05 257.8	123.0 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1200-1	388 (400-1)	1200-1⅛	388 (400-1⅛)
LNAV MDA	1280-1	468 (500-1)	1280-1⅜	468 (500-1⅜)
C CIRCLING	1320-1	508 (600-1)	1560-2¼ 748 (800-2¼)	1560-2½ 748 (800-2½)



REIL Rwys 2, 14, 20 and 32 L
MIRL Rwys 2-20 and 14-32 L

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LAFAYETTE, INDIANA AL-220 (FAA) 20086

ILS or LOC RWY 10
PURDUE UNIVERSITY (LAF)

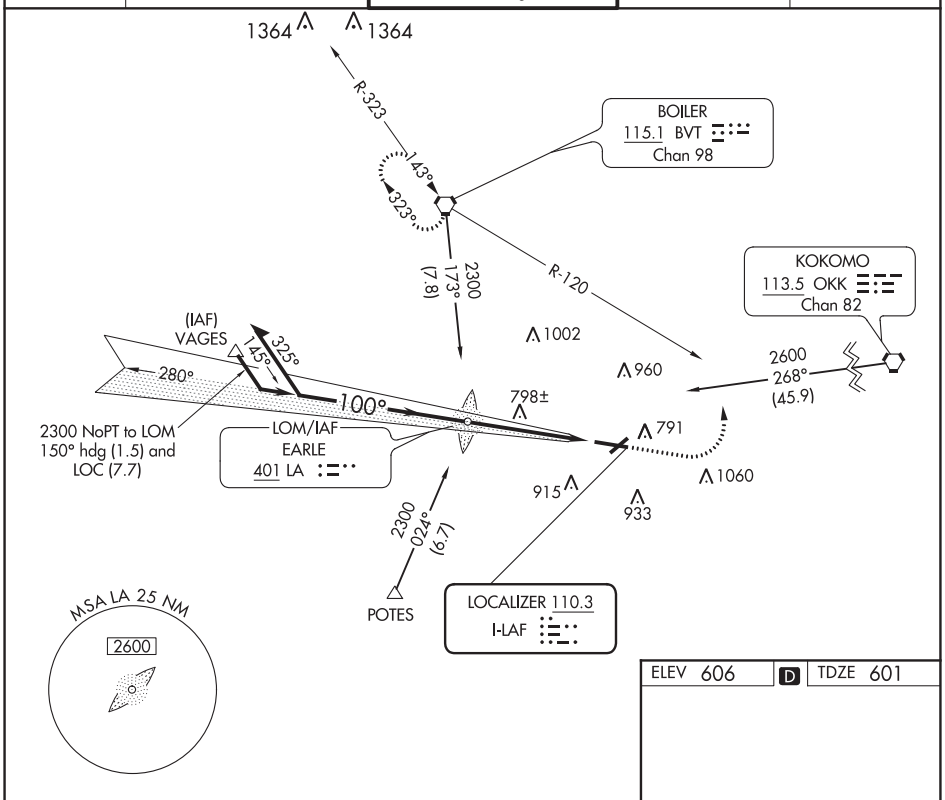
LOC I-LAF	APP CRS	Rwy ldg	6600
110.3	100°	TDZE	601
		Apt Elev	606

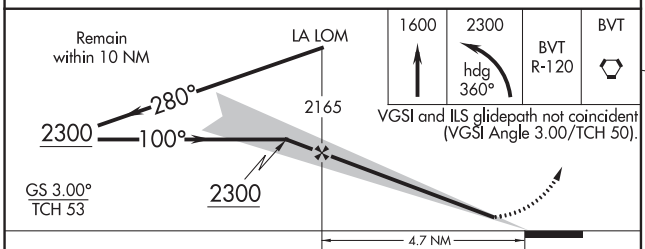
Circling Rwy 23 NA at night.

MALSR

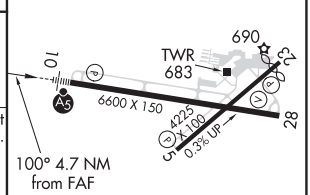
MISSED APPROACH: Climb to 1600 then climbing left turn to 2300 via heading 360° and BVT VORTAC R-120 to BVT VORTAC and hold.

ATIS	GRISSOM APP CON ★	LAFAYETTE TOWER ★	GND CON	UNICOM
127.75	123.85 291.675	119.6 (CTAF) L 393.0	121.9 393.0	122.95





ELEV 606 D TDZE 601



HIRL Rwy 10-28 L
REIL Rwys 5, 23 and 28 L
MIRL Rwy 5-23 L

CATEGORY	A	B	C	D
S-ILS 10	801-½ 200 (200-½)			
S-LOC 10	1060-½ 459 (500-½)		1060-¾ 459 (500-¾)	1060-1 459 (500-1)
CIRCLING	1160-1 554 (600-1)		1160-1½ 554 (600-1½)	1320-2¼ 714 (800-2¼)

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

LAFAYETTE, INDIANA
Amdt 11B 17AUG17

40°25'N-86°56'W

PURDUE UNIVERSITY (LAF)
ILS or LOC RWY 10

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WAAS Ch 45902 W10A	APP CRS 100°	Rwy ldg 6600 TDZE 601 Apt Elev 606

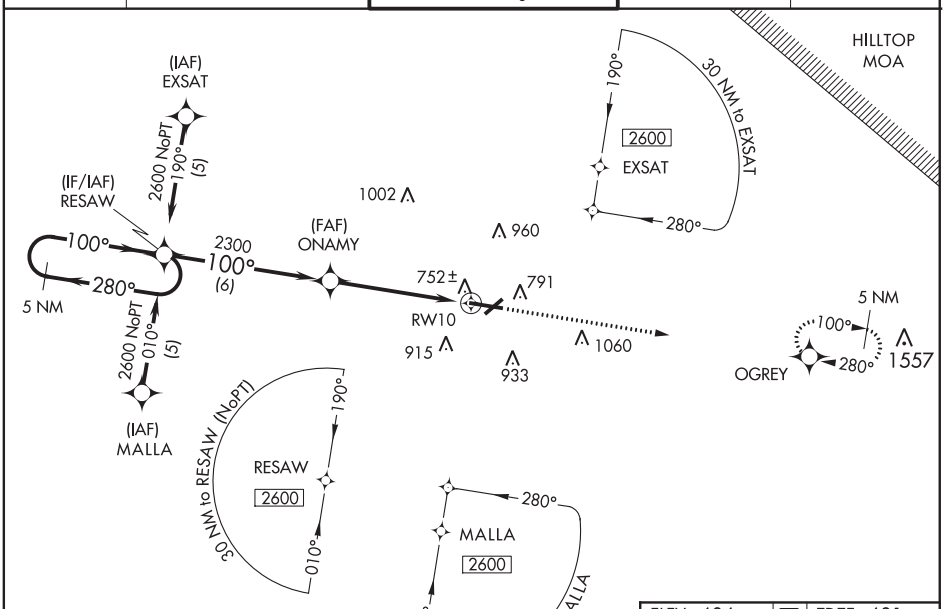
RNAV (GPS) RWY 10
PURDUE UNIVERSITY (LAF)

If local altimeter setting not received, use Vermilion Rgnl altimeter setting and increase all DAs 89 feet, all MDAs 100 feet. Baro-VNAV NA when using Vermilion Rgnl altimeter setting. VDP NA when using Vermilion Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). For inoperative MALSR, increase LPV all Cats visibility to 1 mile. DME/DME RNP-0.3 NA. Circling Rwy 23 NA at night.

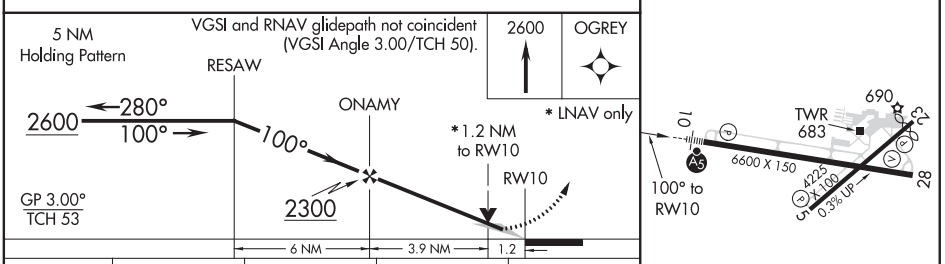
MALSR

MISSED APPROACH: Climb to 2600 direct OGREY and hold.

ATIS	GRISSOM APP CON ★	LAFAYETTE TOWER ★	GND CON	UNICOM
127.75	123.85 291.675	119.6 (CTAF) L 393.0	121.9 393.0	122.95



ELEV 606	D	TDZE 601



CATEGORY	A	B	C	D
LPV DA	877-½ 276 (300-½)			
LNAV/ VNAV DA	1083-1¼ 482 (500-1¼)			
LNAV MDA	1040-½ 439 (500-½)		1040-¾ 439 (500-¾)	1040-1 439 (500-1)
CIRCLING	1160-1 554 (600-1)		1160-1½ 554 (600-1½)	1320-2¼ 714 (800-2¼)

HIRL Rwy 10-28 L
REIL Rwys 5, 23 and 28 L
MIRL Rwy 5-23 L

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LAFAYETTE, INDIANA | AL-220 (FAA) | 19283

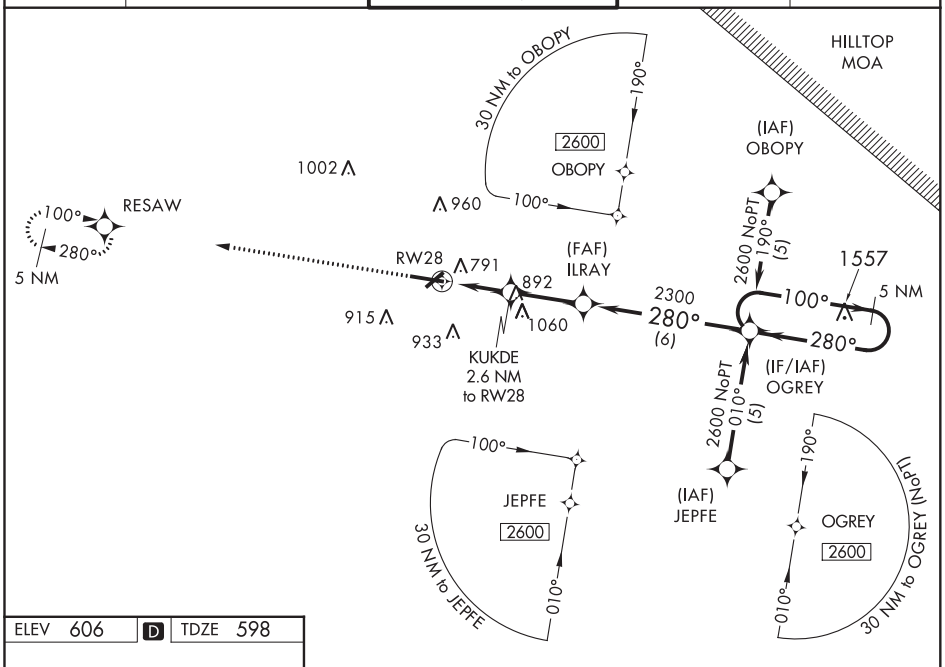
WAAS CH 82103 W28A	APP CRS 280°	Rwy ldg 6600 TDZE 598 Apt Elev 606

RNAV (GPS) RWY 28
PURDUE UNIVERSITY (LAF)

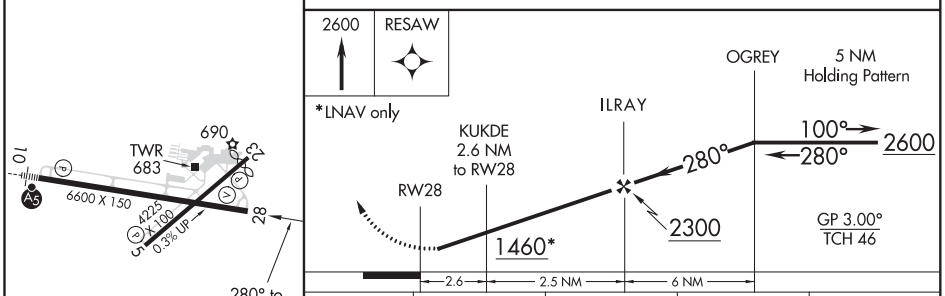
If local altimeter setting not received, use Vermilion Rgnl altimeter setting and increase all DAs 89 feet, all MDAs 100 feet. Baro-VNAV NA when using Vermilion Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Rwy 28 helicopter visibility reduction below ¾ SM NA. Circling Rwy 23 NA at night.

MISSED APPROACH: Climb to 2600 direct RESAW and hold.

ATIS	GRISSOM APP CON ★	LAFAYETTE TOWER ★	GND CON	UNICOM
127.75	123.85 291.675	119.6 (CTAF) L 393.0	121.9 393.0	122.95



ELEV 606 | D | TDZE 598



CATEGORY	A	B	C	D
LPV DA	856-1 258 (300-1)			
LNAV/VNAV DA	1125-1¾ 527 (600-1¾)			
LNAV MDA	1060-1 462 (500-1)		1060-1¼ 462 (500-1¼)	1060-1½ 462 (500-1½)
CIRCLING	1160-1 554 (600-1)		1160-1½ 554 (600-1½)	1320-2¼ 714 (800-2¼)

HIRL Rwy 10-28 L
REIL Rwys 5, 23 and 28 L
MIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

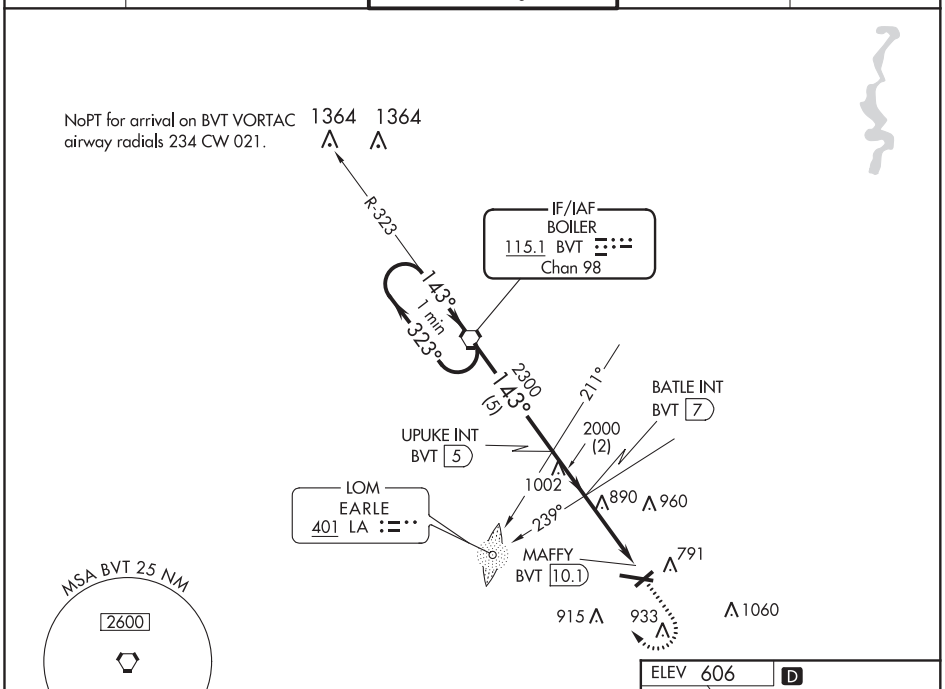
VORTAC BVT	APP CRS	Rwy ldg	N/A
115.1	143°	TDZE	N/A
Chan 98		Apt Elev	606

VOR-A
PURDUE UNIVERSITY (LAF)

When local altimeter setting not received, use Danville altimeter setting and increase all MDAs 100 feet and visibility Cats C and D ½ mile. Circling Rwy 23 NA at night.

MISSED APPROACH: Climb to 2300 then right turn direct BVT VORTAC and hold.

ATIS	GRISSOM APP CON ★	LAFAYETTE TOWER ★	GND CON	UNICOM
127.75	123.85 291.675	119.6 (CTAF) L 393.0	121.9 393.0	122.95



HIRL Rwy 10-28 L
REIL Rwys 5, 23 and 28 L
MIRL Rwy 5-23 L

CATEGORY	A	B	C	D
CIRCLING	1160-1 554 (600-1)		1160-1½ 554 (600-1½)	1320-2¼ 714 (800-2¼)

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

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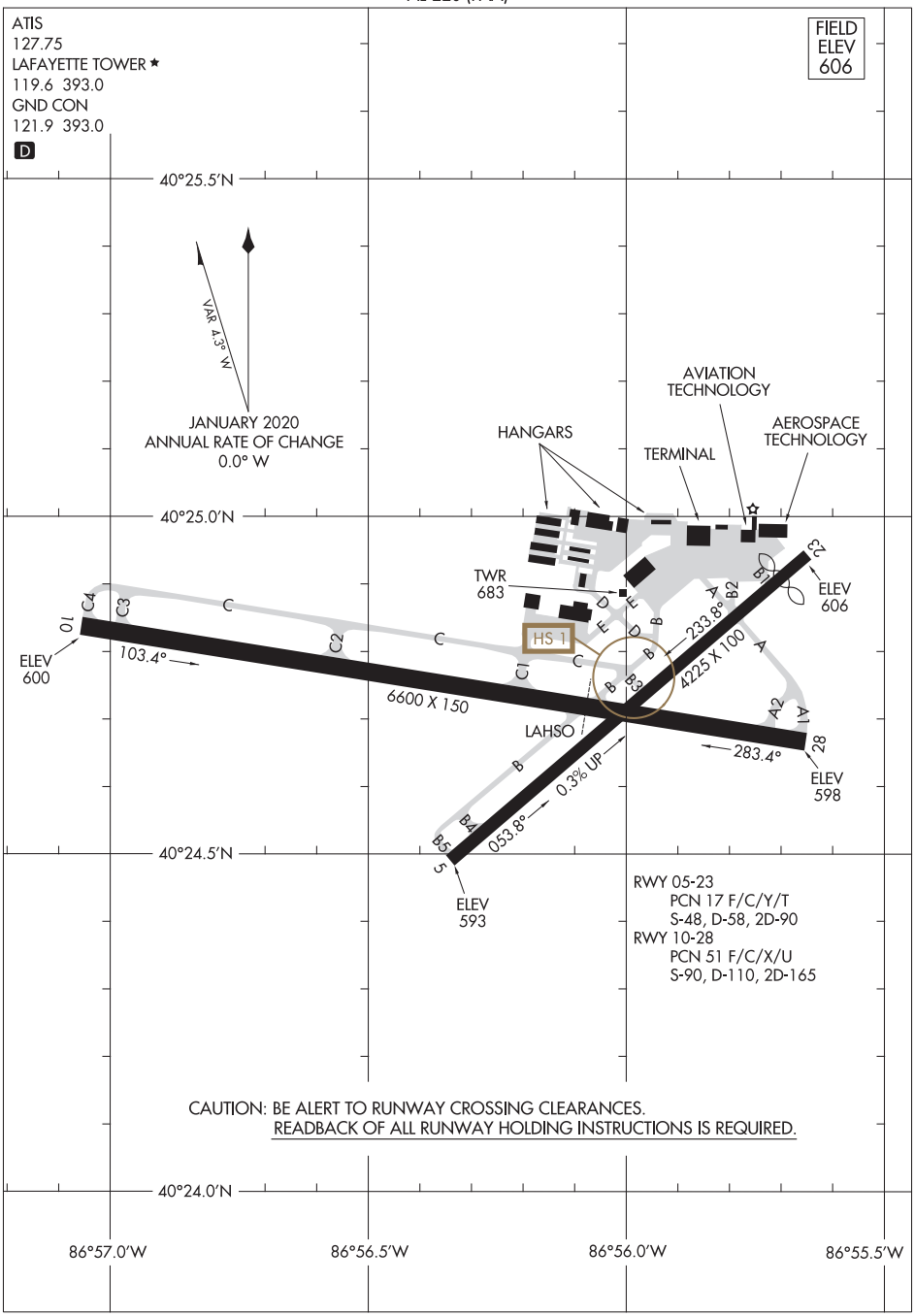
20198

AIRPORT DIAGRAM

AL-220 (FAA)

PURDUE UNIVERSITY (LAF)
LAFAYETTE, INDIANA



EC-2, 25 FEB 2021 to 22 APR 2021

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AIRPORT DIAGRAM
20198
LAFAYETTE, INDIANA
PURDUE UNIVERSITY (LAF)

WAAS CH 97701 W10A	APP CRS 100°	Rwy ldg 5004 TDZE 857 Apt Elev 868

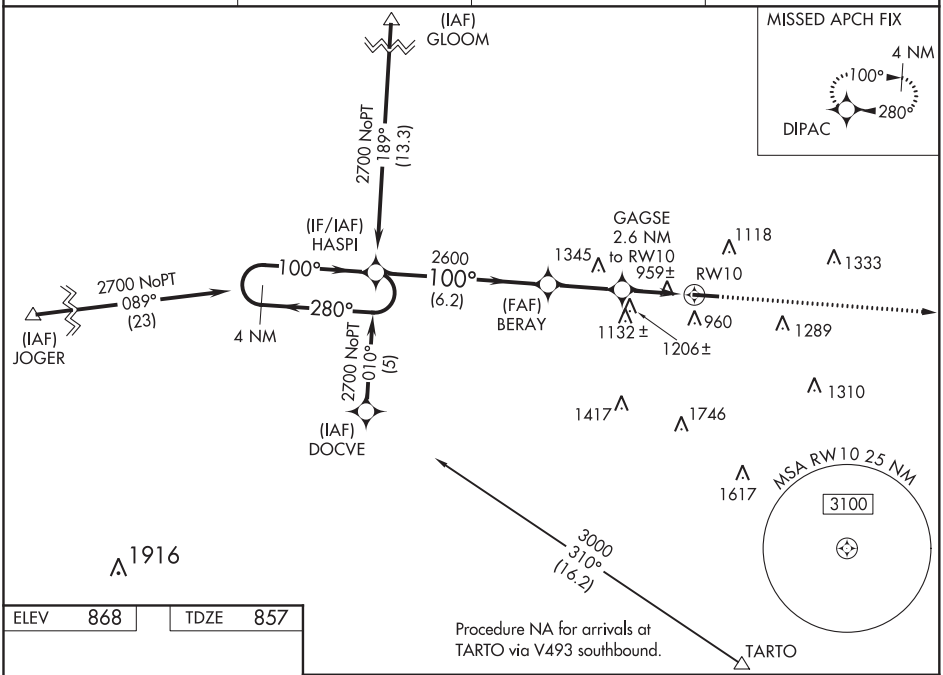
RNAV (GPS) RWY 10
FAIRFIELD COUNTY (LHQ)

RNP APCH.

Baro-VNAV and VDP NA when using Rickenbacker Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Rickenbacker Intl altimeter setting and increase all DAs 48 feet, and all MDAs 60 feet, and increase LPV, LNAV/VNAV all Cats and Circling Cat C visibility ¼ mile. Rwy 10 helicopter visibility reduction below ¾ SM NA.

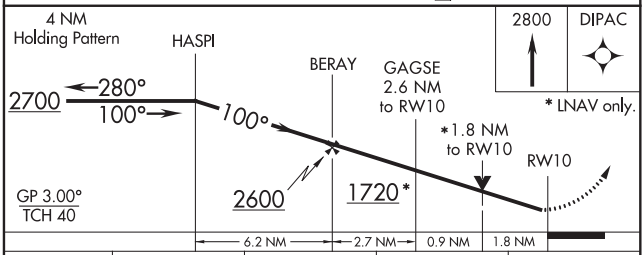
MISSED APPROACH: Climb to 2800 direct DIPAC and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	134.0 279.6	121.65	122.725 (CTAF) L



Procedure NA for arrivals at TARTO via V493 southbound.

ELEV 868	TDZE 857



CATEGORY	A	B	C	D
LPV DA	1170-1 313 (400-1)			NA
LNAV/VNAV DA	1291-1½ 434 (500-1½)			NA
LNAV MDA	1460-1 603 (600-1)		1460-1¾ 603 (600-1¾)	NA
CIRCLING	1520-1 652 (700-1)	1540-1 672 (700-1)	1560-2 692 (700-2)	NA

REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L

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LANCASTER, OHIO AL-6212 (FAA) 20366

WAAS CH 69628 W28A	APP CRS 280°	Rwy ldg 5004 TDZE 868 Apt Elev 868

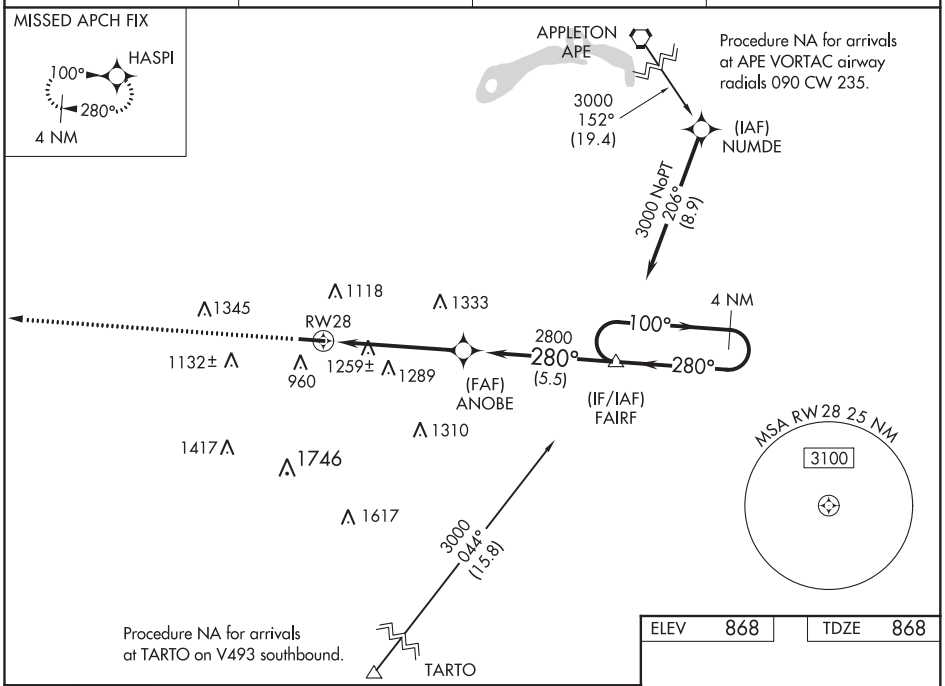
RNAV (GPS) RWY 28
FAIRFIELD COUNTY (LHQ)

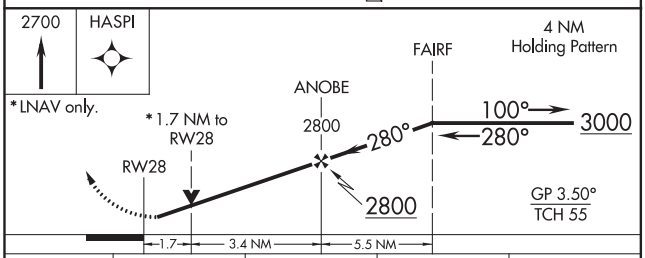
RNP APCH.

Baro-VNAV NA when using Rickenbacker Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C or above 54°C. Rwy 28 helicopter visibility reduction below ¾ SM NA. VDP NA with Rickenbacker Intl altimeter setting. When local altimeter setting not received, use Rickenbacker Intl altimeter setting and increase all DA 48 feet; increase all MDA 60 feet.

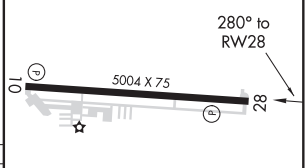
MISSED APPROACH: Climb to 2700 direct HASPI and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	134.0 279.6	121.65	122.725 (CTAF) L





ELEV 868	TDZE 868



CATEGORY	A	B	C	D
LPV DA	1068-¾ 200 (200-¾)		NA	
LNAV/VNAV DA	1641- 2½ 773 (800-2½)		NA	
LNAV MDA	1520-1 652 (700-1)		NA	
CIRCLING	1520-1 652 (700-1)	1540-1 672 (700-1)	NA	

REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L

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EC-2, 25 FEB 2021 to 22 APR 2021

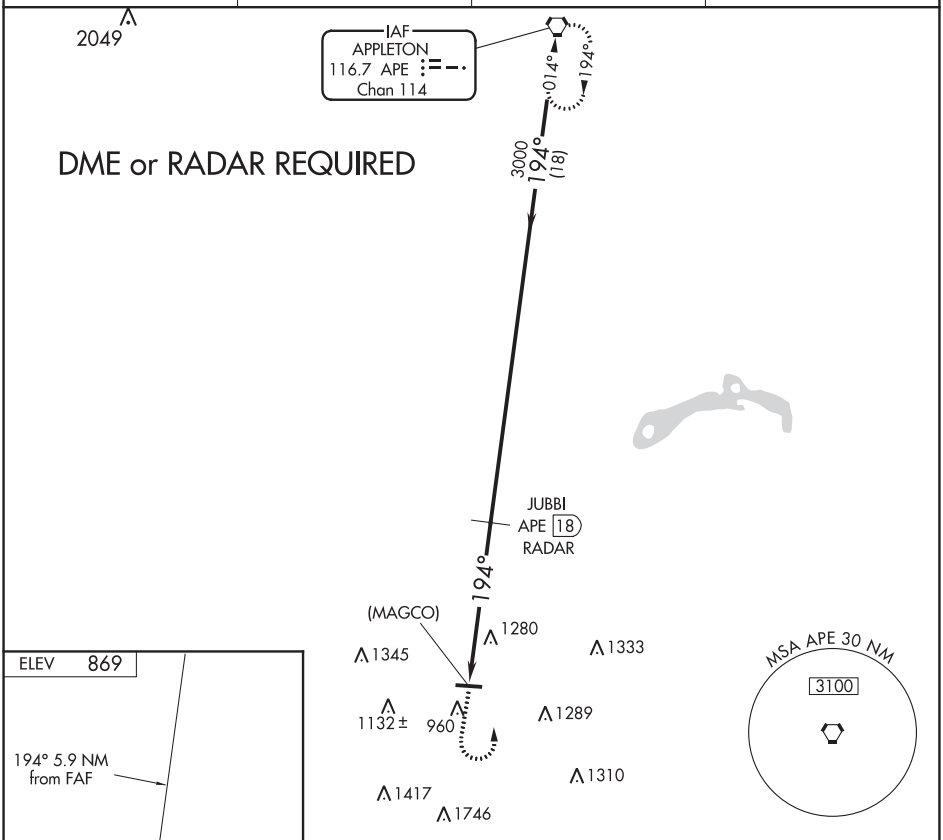
VORTAC APE 116.7 Chan 114	APP CRS 194°	Rwy ldg N/A TDZE N/A Apt Elev 869

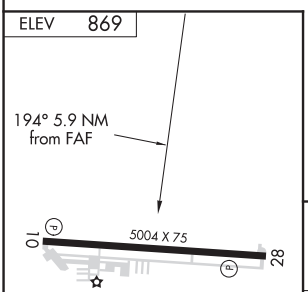
VOR or GPS-A
FAIRFIELD COUNTY (LHQ)

T
NA

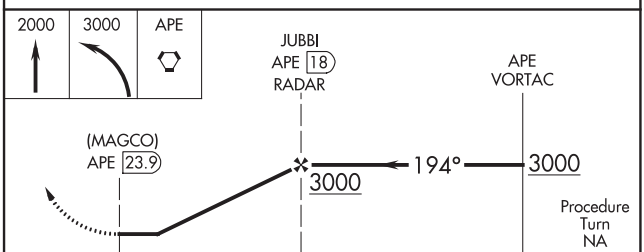
MISSED APPROACH: Climb to 2000, then climbing left turn to 3000 direct APE VORTAC and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM
118.375	134.0 279.6	121.65	122.725 (CTAF) L





REIL Rwys 10 and 28 L
MIRL Rwy 10-28 L



FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

CATEGORY	A	B	C	D
CIRCLING	1580-1 711 (800-1)	1580-1¼ 711 (800-1¼)	1640-2¼ 771 (800-2¼)	NA

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LEBANON, OHIO | AL-6485 (FAA) | 20086

WAAS CH 53629 W01A	APP CRS 009°	Rwy ldg 4407 TDZE 893 Apt Elev 898

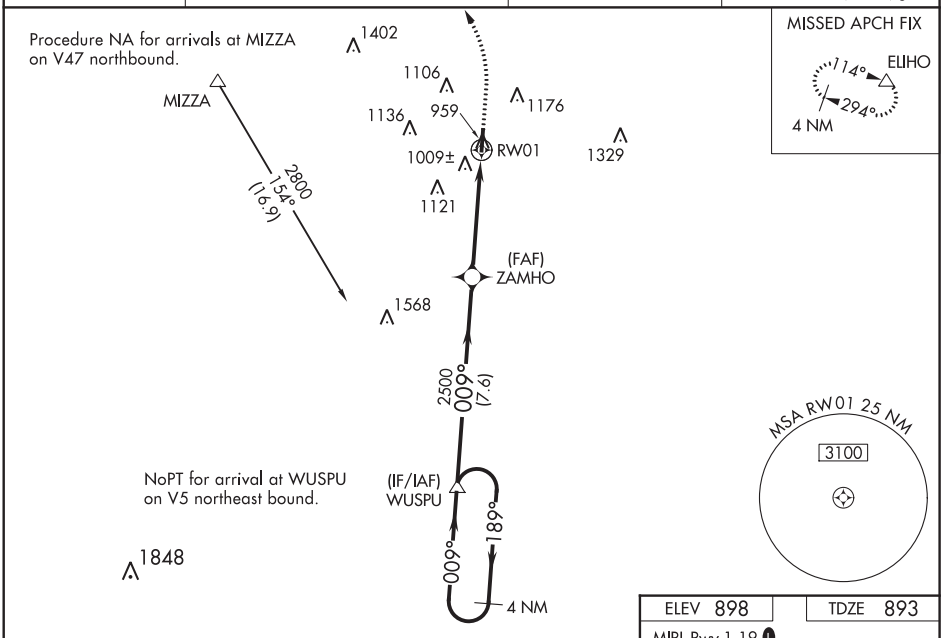
RNAV (GPS) RWY 1
WARREN COUNTY/JOHN LANE FIELD (I68)

NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Dayton-Wright Brothers altimeter setting. DME/DME RNP-0.3 NA. Rwy 1 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received use Dayton-Wright Brothers altimeter setting and increase LPV DA to 1183 feet and LNAV/VNAV DA to 1215 and all MDA 40 feet; increase LNAV Cat C/D visibility ⅛ SM and Circling Cat C visibility ¼ SM. When Circling to Rwy 19 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

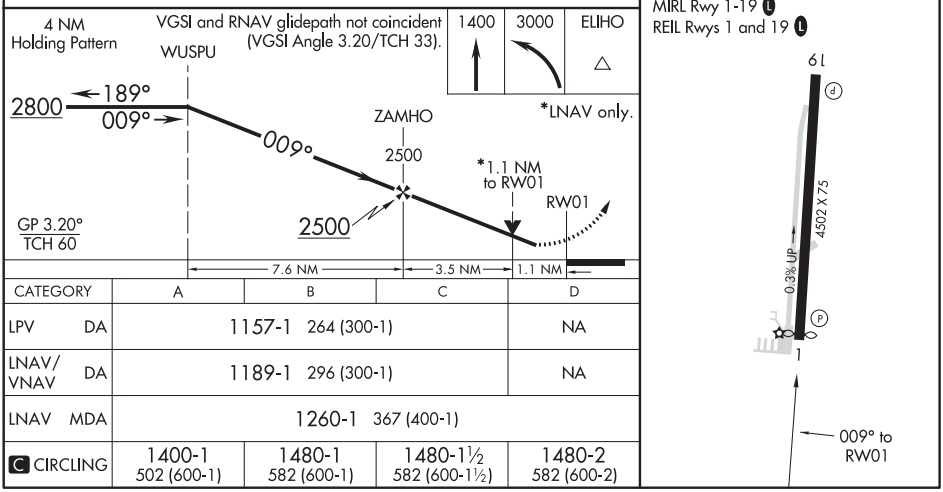
MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct ELIHO and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
120.55	118.85 269.275	119.4	123.075 (CTAF) L



ELEV 898	TDZE 893

MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L



CATEGORY	A	B	C	D
LPV DA	1157-1 264 (300-1)			NA
LNAV/VNAV DA	1189-1 296 (300-1)			NA
LNAV MDA	1260-1 367 (400-1)			
C CIRCLING	1400-1 502 (600-1)	1480-1 582 (600-1)	1480-1½ 582 (600-1½)	1480-2 582 (600-2)

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WAAS CH 87129 W19A	APP CRS 189°	Rwy ldg 4502 TDZE 898 Apt Elev 898

RNAV (GPS) RWY 19
WARREN COUNTY/JOHN LANE FIELD (I68)

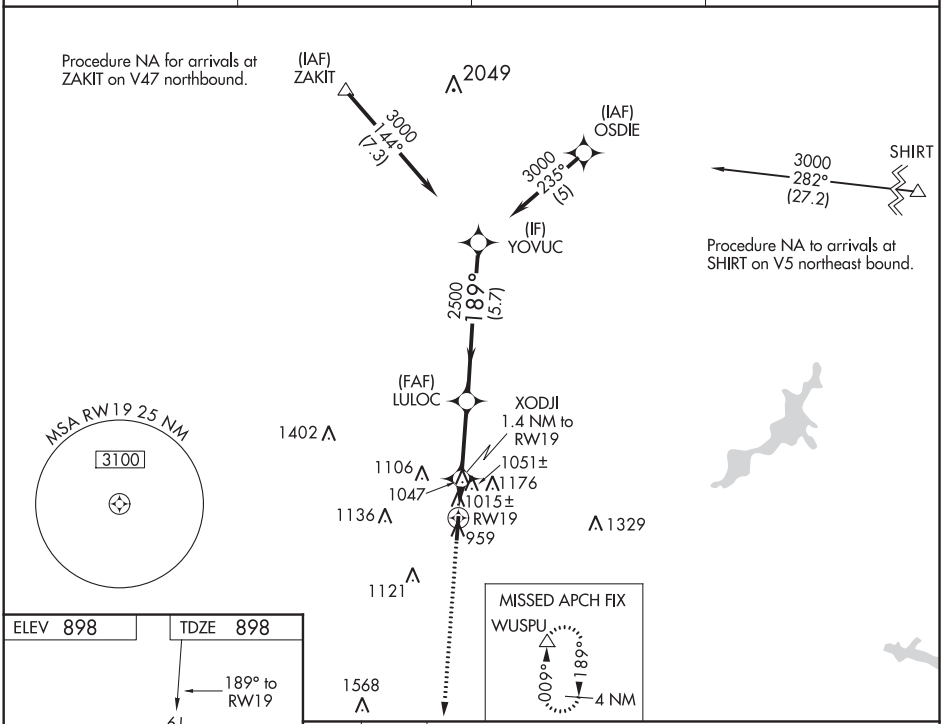
RNP APCH.

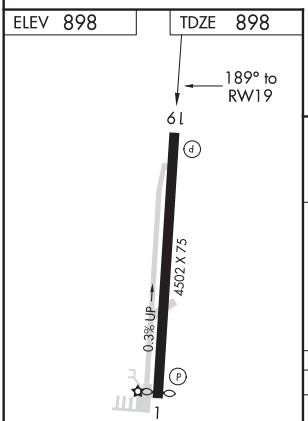
NA

Rwy 19 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Dayton-Wright Brothers altimeter setting and increase all MDAs 40 feet, and LP and LNAV Cat C and D visibilities ⅛ SM and Circling Cat C visibility ¼ SM. Straight-in Rwy 19 and Circling Rwy 19 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

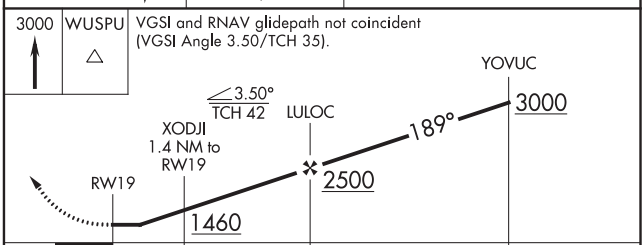
MISSED APPROACH: Climb to 3000 direct WUSPU and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
120.55	118.85 269.275	119.4	123.075 (CTAF) L





MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L



CATEGORY	A	B	C	D
LP MDA	1280-1	382 (400-1)	1280-1⅛	382 (400-1⅛)
LNAV MDA	1320-1	422 (500-1)	1320-1¼	422 (500-1¼)
C CIRCLING	1400-1 502 (600-1)	1480-1 582 (600-1)	1480-1½ 582 (600-1½)	1480-2 582 (600-2)

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LEBANON, OHIO | AL-6485 (FAA) | 20310

NDB-A

WARREN COUNTY/JOHN LANE FIELD (I68)

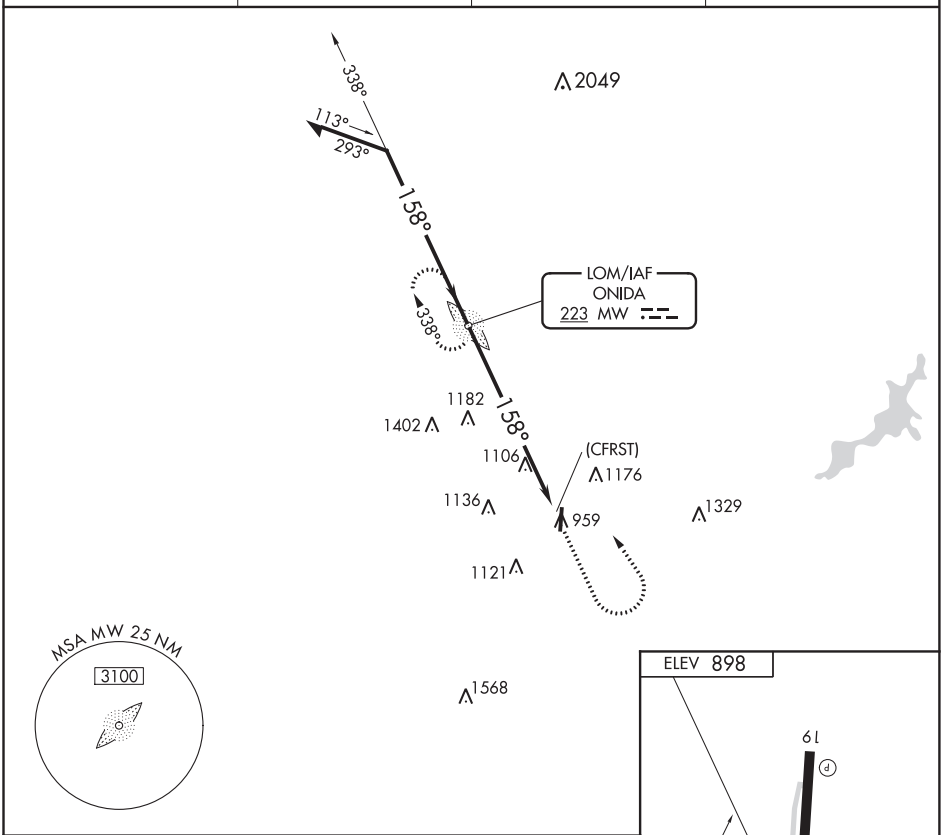
LOM MW	APP CRS	Rwy ldg / TDZE / Apt Elev
223	158°	N/A / N/A / 898

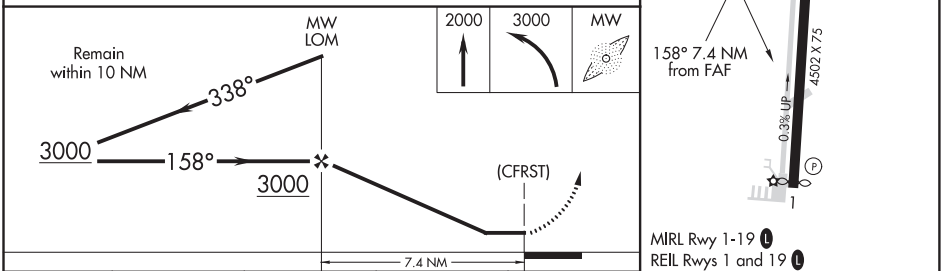
RADAR required for procedure entry.

When Circling to Rwy 19 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct MW LOM and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
120.55	118.85 269.275	119.4	123.075 (CTAF) L





MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L

CATEGORY	A	B	C	D
C CIRCLING	1680-1 782 (800-1)		1680-2¼ 782 (800-2¼)	1680-2½ 782 (800-2½)

FAF to MAP 7.4 NM					
Knots	60	90	120	150	180
Min:Sec	7:24	4:56	3:42	2:58	2:28

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ILS or LOC RWY 28
LIMA ALLEN COUNTY (AOH)

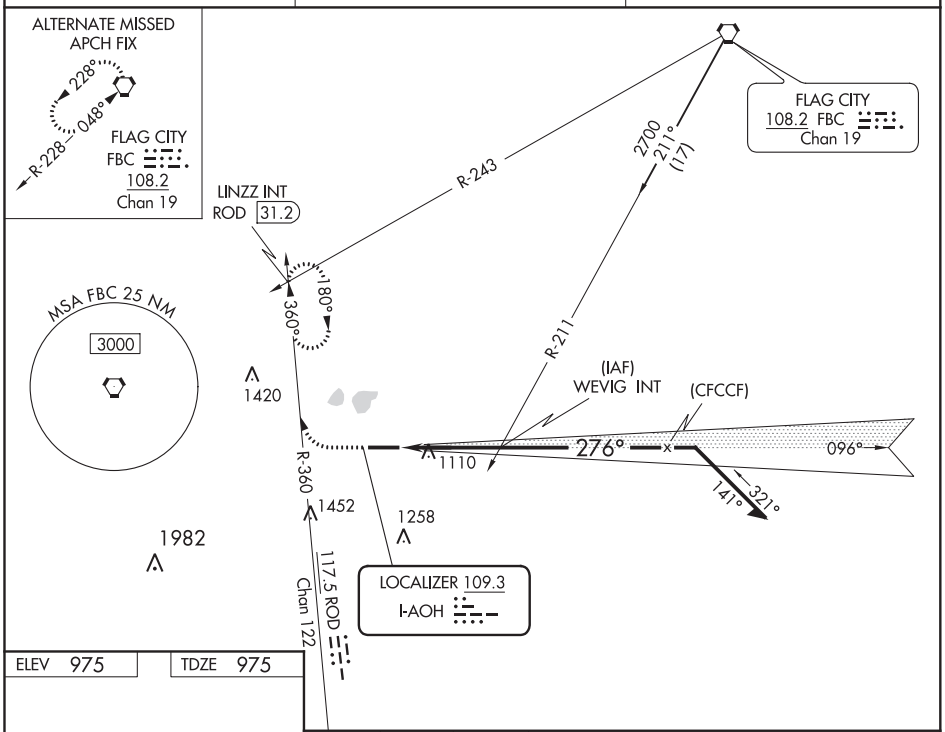
LOC I-AOH	APP CRS	Rwy ldg	6000
109.3	276°	TDZE	975
		Apt Elev	975

When local altimeter setting not received, use Findlay altimeter setting and increase all DA/MDA 80 feet. Increase ILS all Cats visibility ⅛ mile, S-LOC Cat C/D and Circling Cat C visibility ¼ mile.

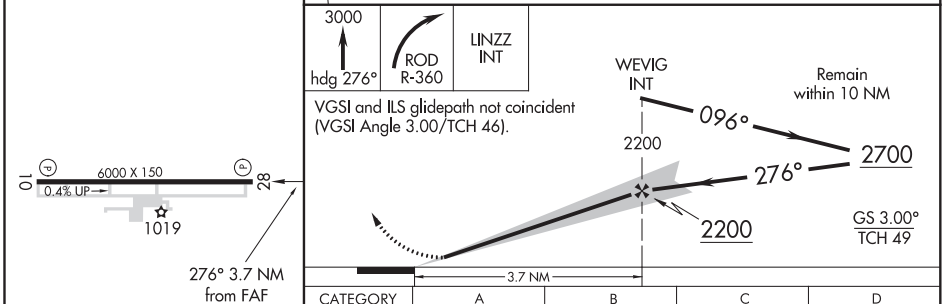
NA

MISSED APPROACH: Climb to 3000 on heading 276° and right turn on ROD VORTAC R-360 to LINZZ INT/ROD 31.2 DME and hold.

ASOS	COLUMBUS APP CON	UNICOM
128.725	118.425 323.15	122.7 (CTAF) L



ELEV 975 TDZE 975



REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

FAF to MAP 3.7 NM					
Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14

CATEGORY	A	B	C	D
S-ILS 28	1175-¾ 200 (200-¾)			
S-LOC 28	1500-1 525 (600-1)		1500-1½ 525 (600-1½)	
CIRCLING	1500-1 525 (600-1)		1500-1½ 525 (600-1½)	1540-2 565 (600-2)

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LIMA, OHIO | AL-5143 (FAA) | 20030

RNAV (GPS) RWY 10
LIMA ALLEN COUNTY (AOH)

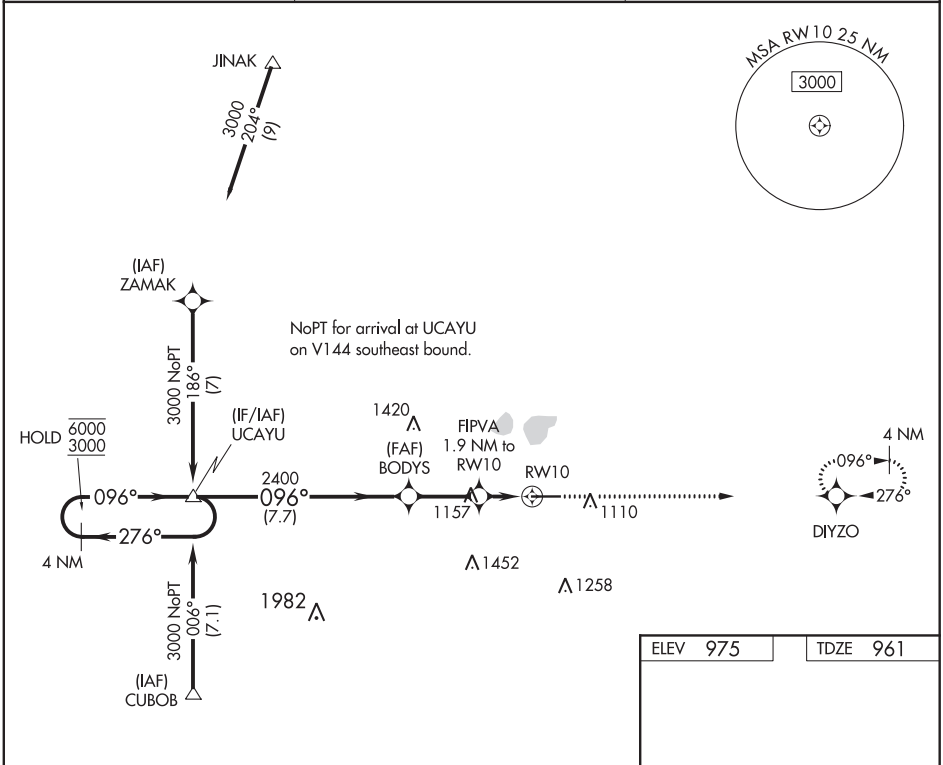
WAAS CH 65816 W10A	APP CRS 096°	Rwy ldg 6000 TDZE 961 Apt Elev 975

RNP APCH.

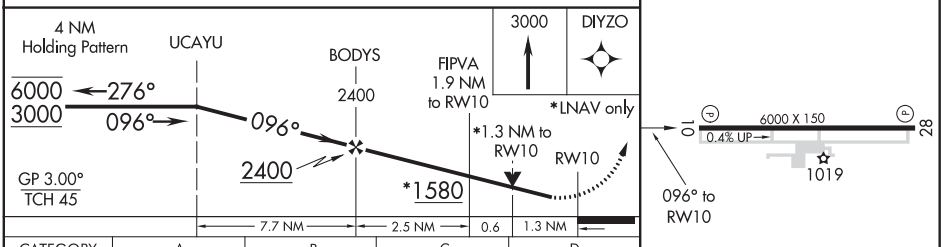
Rwy 10 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 3000 direct DIYZO and hold.

ASOS	COLUMBUS APP CON	UNICOM
128.725	118.425 323.15	122.7 (CTAF) L



ELEV 975	TDZE 961



CATEGORY	A	B	C	D
LPV DA	1211-1 250 (300-1)			
LNAV/VNAV DA	1272-1 311 (300-1)			
LNAV MDA	1420-1 459 (500-1)		1420-1⅜ 459 (500-1⅜)	

REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

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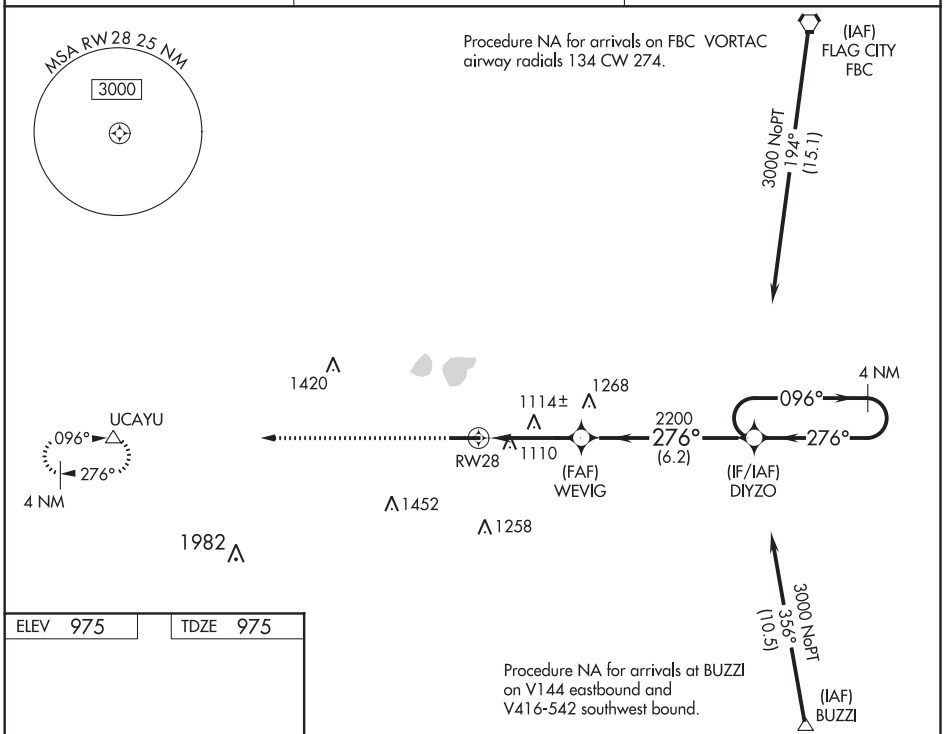
WAAS CH 50511 W28A	APP CRS 276°	Rwy ldg 6000 TDZE 975 Apt Elev 975

RNAV (GPS) RWY 28
LIMA ALLEN COUNTY (AOH)

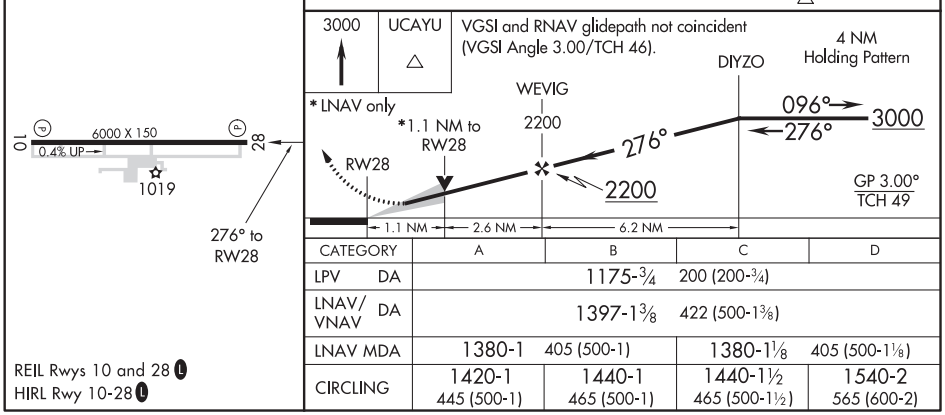
Baro-VNAV NA when using Findlay altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 37°C (98°F). When local altimeter setting not received, use Findlay altimeter setting and increase all DA and MDA 80 feet. Increase LPV all Cats visibility ⅛ mile, LNAV/VNAV all Cats and LNAV Cats C/D visibility ¼ mile. DME/DME RNP-0.3 NA. VDP NA with Findlay altimeter setting.

MISSED APPROACH: Climb to 3000 direct UCAYU and hold.

ASOS	COLUMBUS APP CON	UNICOM
128.725	118.425 323.15	122.7 (CTAF) L



ELEV 975	TDZE 975



CATEGORY	A	B	C	D
LPV DA	1175-¾ 200 (200-¾)			
LNAV/VNAV DA	1397-1⅜ 422 (500-1⅜)			
LNAV MDA	1380-1 405 (500-1)		1380-1⅛ 405 (500-1⅛)	
CIRCLING	1420-1 445 (500-1)	1440-1 465 (500-1)	1440-1½ 465 (500-1½)	1540-2 565 (600-2)

REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

LOGANSPORT, INDIANA | AL-5435 (FAA) | 20310

WAAS CH 45820 W09A	APP CRS 093°	Rwy ldg 5001 TDZE 736 Apt Elev 738

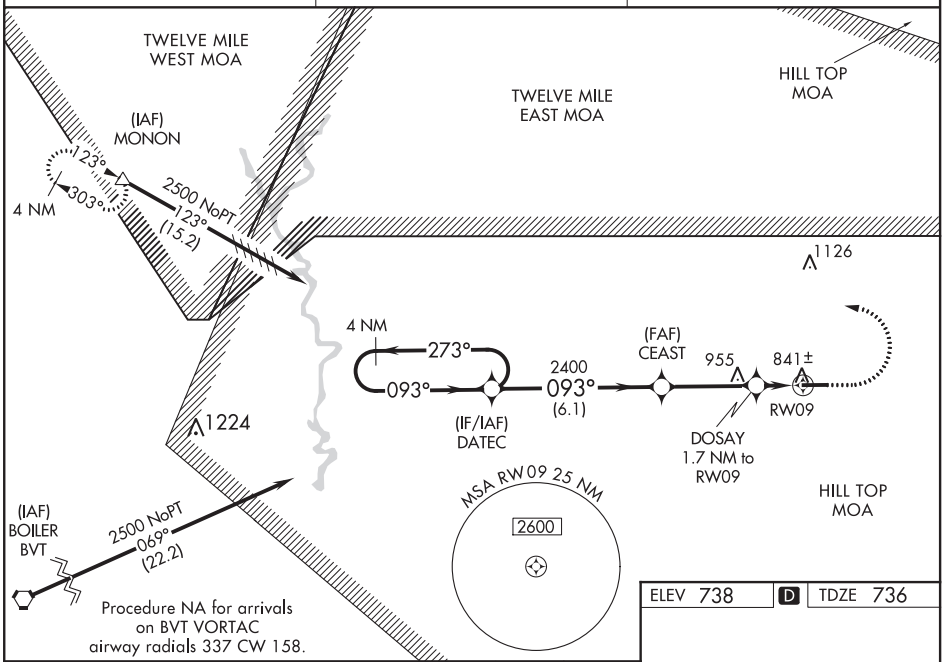
RNAV (GPS) RWY 9
LOGANSPORT/CASS COUNTY (GGP)

T
A NA

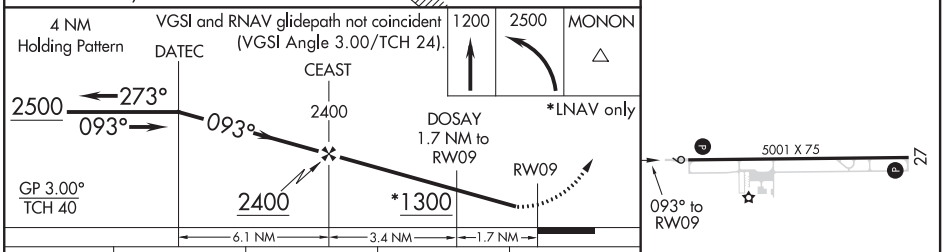
Baro-VNAV NA when using Grissom ARB altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 39°C (102°F). Obtain local altimeter setting on CTAF; when not received, use Grissom ARB altimeter setting and increase all DA 36 feet, all MDA 40 feet, LNAV/VNAV all Cats and LNAV Cat C and D visibility ⅛ mile. When VGSI inoperative, Straight-in/Circling Rwy 9 procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 1200, then climbing left turn to 2500 direct MONON and hold.

AWOS-3P	GRISSOM APP CON*	UNICOM
118.5	121.05 338.275	122.8 (CTAF) L



ELEV 738 | D | TDZE 736



CATEGORY	A	B	C	D
LPV DA	991-1 255 (300-1)			
LNAV/VNAV DA	1022-1 286 (300-1)			
LNAV MDA	1100-1 364 (400-1)			
CIRCLING	1160-1 422 (500-1)	1200-1 462 (500-1)	1200-1½ 462 (500-1½)	1300-2 562 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 70703 W27A	APP CRS 273°	Rwy ldg 5001 TDZE 738 Apt Elev 738

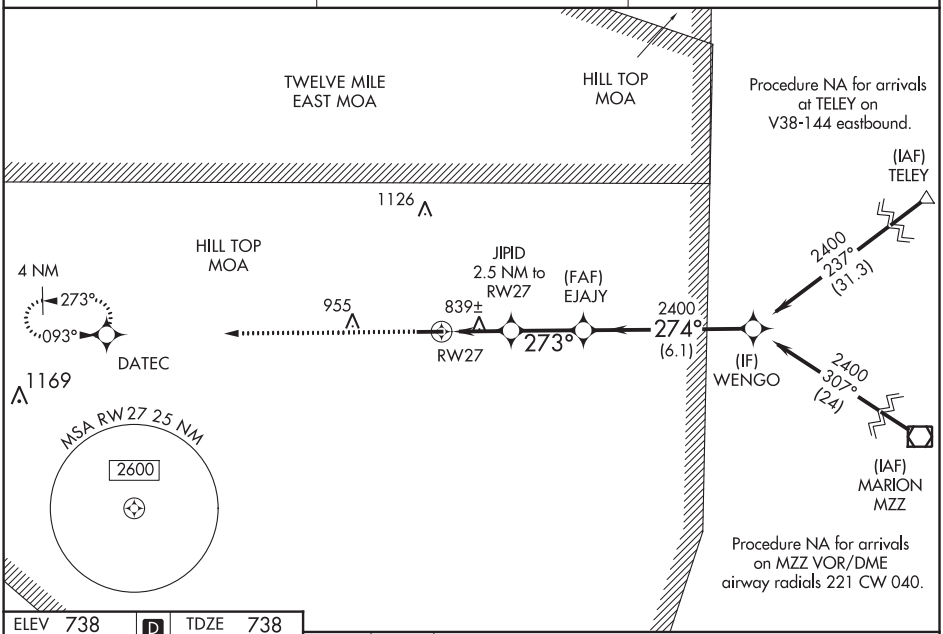
RNAV (GPS) RWY 27
LOGANSPORT/CASS COUNTY (GGP)

Baro-VNAV NA when using Grissom ARB altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 39°C (102°F). DME/DME RNP-0.3 NA. VDP NA with Grissom ARB altimeter setting. Obtain local altimeter setting on CTAF; when not received, use Grissom ARB altimeter setting and increase all DA 36 feet, all MDA 40 feet and LNAV/VNAV all Cats visibility ¼ mile and LNAV Cat C/D visibility ⅛ mile.

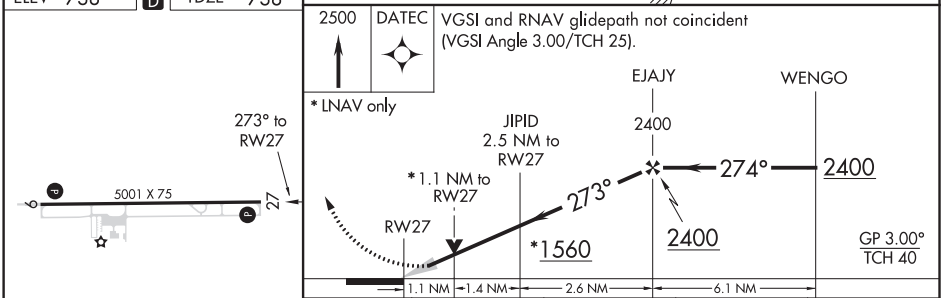
NA

MISSED APPROACH: Climb to 2500 direct DATEC and hold.

AWOS-3P	GRISSOM APP CON*	UNICOM
118.5	121.05 338.275	122.8 (CTAF) L



ELEV 738 D TDZE 738



CATEGORY	A	B	C	D
LPV DA	938-¾ 200 (200-¾)			
LNAV/VNAV DA	1020-⅞ 282 (300-⅞)			
LNAV MDA	1100-1 362 (400-1)			
CIRCLING	1160-1 422 (500-1)	1200-1 462 (500-1)	1200-1½ 462 (500-1½)	1300-2 562 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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LOGANSPORT, INDIANA AL-5435 (FAA) 20310

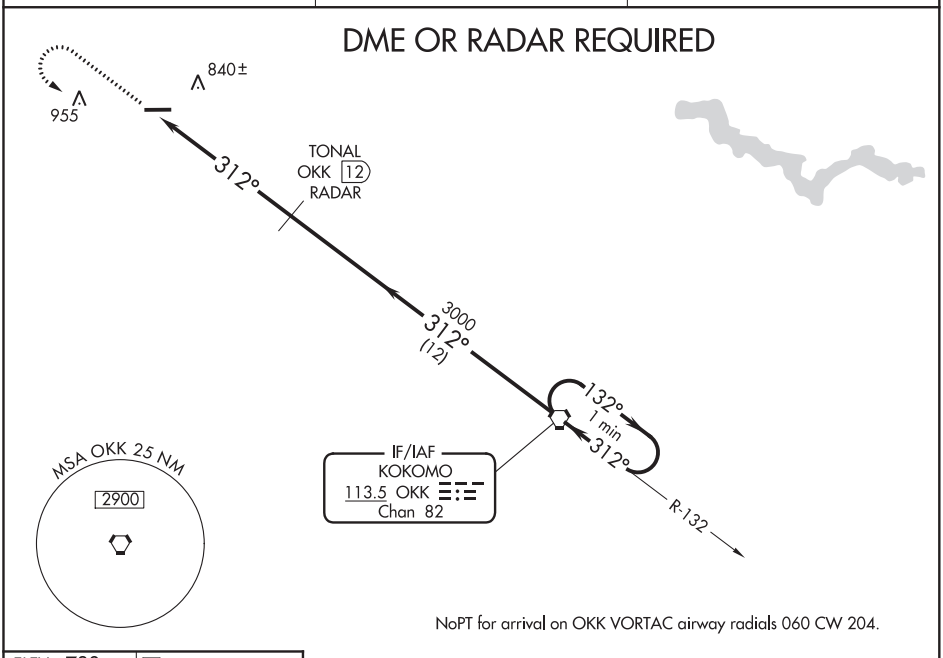
VORTAC OKK	APP CRS	Rwy ldg	N/A
113.5	312°	TDZE	N/A
Chan 82		Apt Elev	738

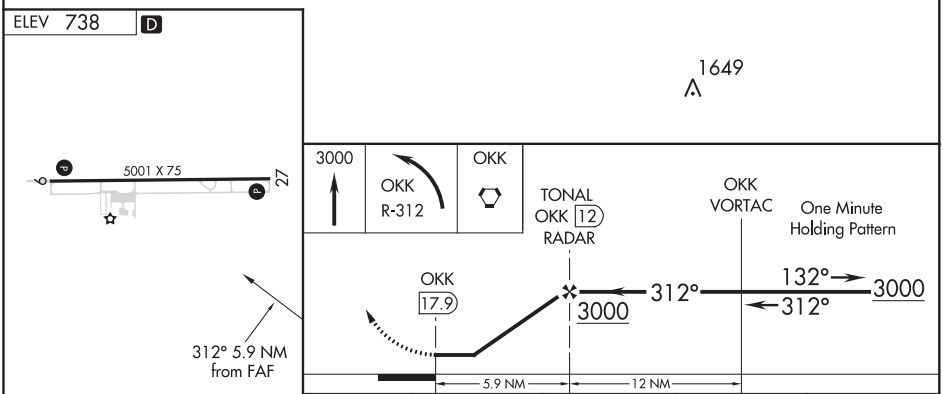
VOR-A
LOGANSPORT/CASS COUNTY (GGP)

When local altimeter setting not received, use Grissom ARB altimeter setting.

MISSED APPROACH: Climb to 3000, then left turn on OKK VORTAC R-312 to OKK VORTAC and hold.

AWOS-3P	GRISSOM APP CON ★	UNICOM
118.5	121.05 338.275	122.8 (CTAF) L





MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

CATEGORY	A	B	C	D
CIRCLING	1200-1	462 (500-1)	1200-1½ 462 (500-1½)	1300-2 562 (600-2)
GRISSOM ARB ALTIMETER SETTING MINIMUMS				
CIRCLING	1240-1	502 (600-1)	1240-1½ 502 (600-1½)	1340-2 602 (700-2)

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WAAS CH 53409 W09A	APP CRS 093°	Rwy ldg 4001 TDZE 1082 Apt Elev 1082

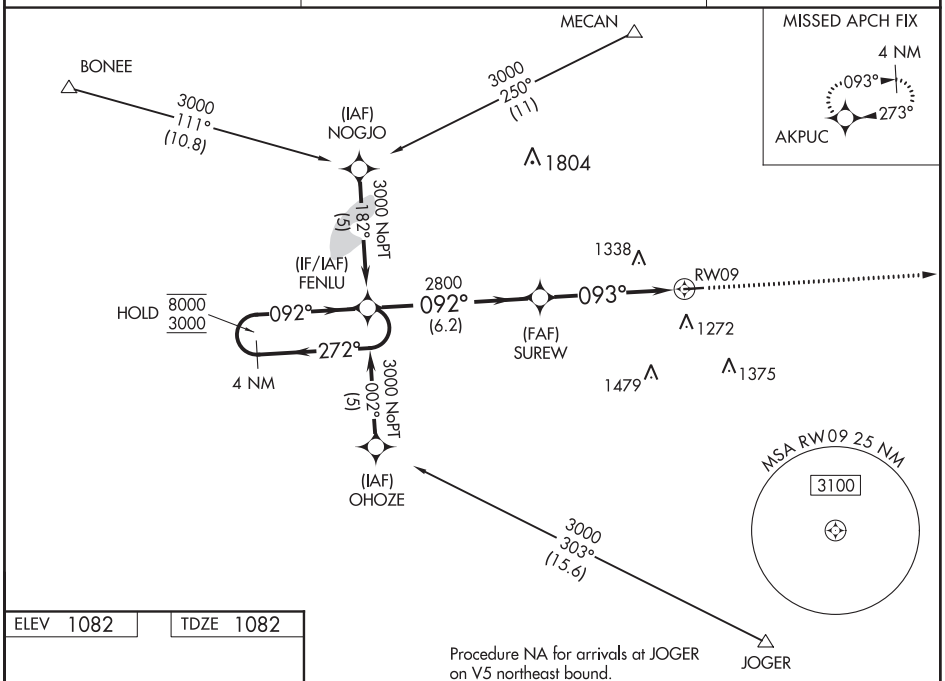
RNAV (GPS) RWY 9
MADISON COUNTY (UYF)

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

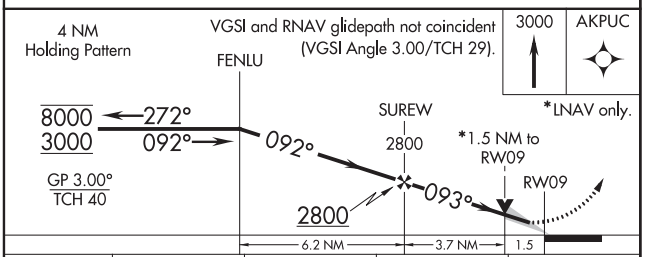
MISSED APPROACH: Climb to 3000 direct AKPUC and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
120.85	118.85 269.275	123.0 (CTAF) L



Procedure NA for arrivals at JOGER on V5 northeast bound.

ELEV 1082 | TDZE 1082



CATEGORY	A	B	C	D
LPV DA	1332-1 250 (300-1)			
LNAV/VNAV DA	1548-1¾ 466 (500-1¾)			
LNAV MDA	1580-1 498 (500-1)		1580-1⅜ 498 (500-1⅜)	1580-1½ 498 (500-1½)
CIRCLING	1600-1 518 (600-1)	1640-1 558 (600-1)	1640-1½ 558 (600-1½)	1640-2 558 (600-2)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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LONDON, OHIO | AL-6621 (FAA) | 18256

RNAV (GPS) RWY 27
MADISON COUNTY (UYF)

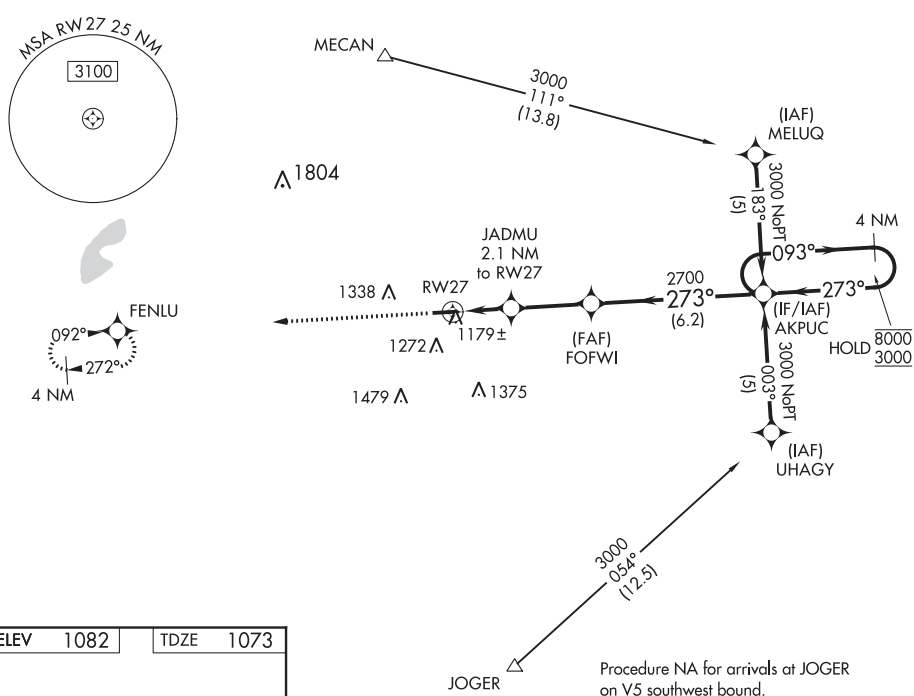
WAAS CH 61009 W27A	APP CRS 273°	Rwy ldg 4001 TDZE 1073 Apt Elev 1082

RNP APCH.

Rwy 27 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

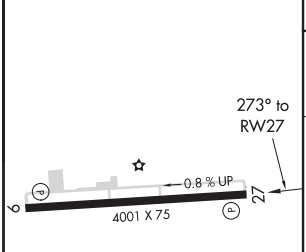
MISSED APPROACH: Climb to 3000 direct FENLU and hold.

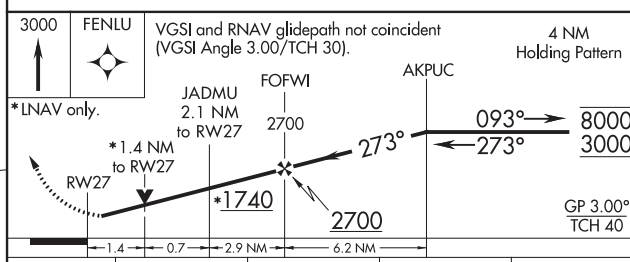
AWOS-3PT	COLUMBUS APP CON	UNICOM
120.85	118.85 269.275	123.0 (CTAF) L



Procedure NA for arrivals at JOGER on V5 southwest bound.

ELEV 1082 | TDZE 1073





CATEGORY	A	B	C	D
LPV DA	1400-1¼ 327 (400-1¼)			
LNAV/VNAV DA	1449-1½ 376 (400-1½)			
LNAV MDA	1540-1 467 (500-1)		1540-1⅜ 467 (500-1⅜)	1540-1½ 467 (500-1½)
CIRCLING	1600-1 518 (600-1)	1640-1 558 (600-1)	1640-1½ 558 (600-1½)	1640-2 558 (600-2)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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ILS or LOC RWY 7
LORAIN COUNTY RGNL (LPR)

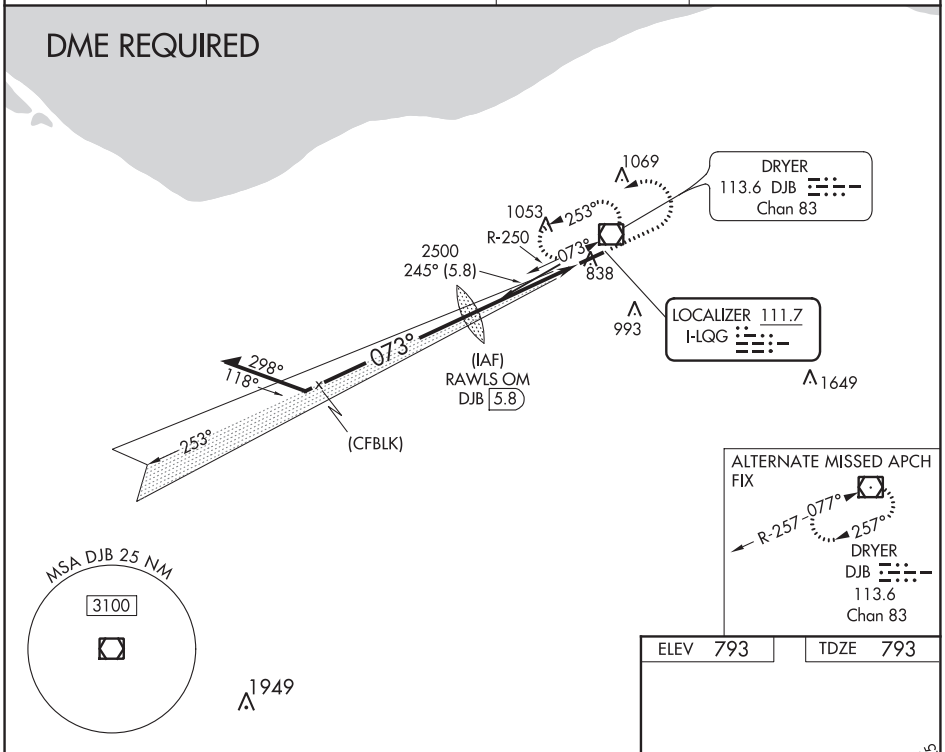
LOC I-LQG	APP CRS	Rwy ldg	5002
111.7	073°	TDZE	793
		Apt Elev	793

For inoperative MALSR, increase S-LOC 7 Cats C/D visibility to 1⅜ mile. VDP NA with Cleveland-Hopkins Intl altimeter setting. When local altimeter setting not received, use Cleveland-Hopkins Intl altimeter setting and increase all DA 36 feet and all MDA 40 feet.

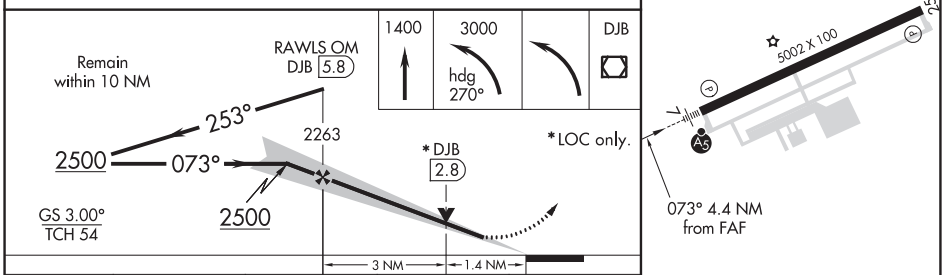
MALSR

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 on heading 270° then left turn direct DJB VOR/DME and hold.

ASOS	CLEVELAND APP CON	CLNC DEL	UNICOM
121.425	126.35 346.325	125.7	122.7 (CTAF) L



ELEV 793	TDZE 793



REIL Rwy 25 L
HIRL Rwy 7-25 L

CATEGORY	A	B	C	D
S-ILS 07	993-½ 200 (200-½)			
S-LOC 07	1280-½ 487 (500-½)		1280-1 487 (500-1)	
C CIRCLING	1280-1 487 (500-1)	1360-1 567 (600-1)	1420-1¾ 627 (700-1¾)	1420-2 627 (700-2)

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

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LORAIN/ELYRIA, OHIO | AL-5703 (FAA) | 20142

WAAS CH 99612 W07A	APP CRS 073°	Rwy ldg 5002 TDZE 793 Apt Elev 793

RNAV (GPS) RWY 7
LORAIN COUNTY RGNL (LPR)

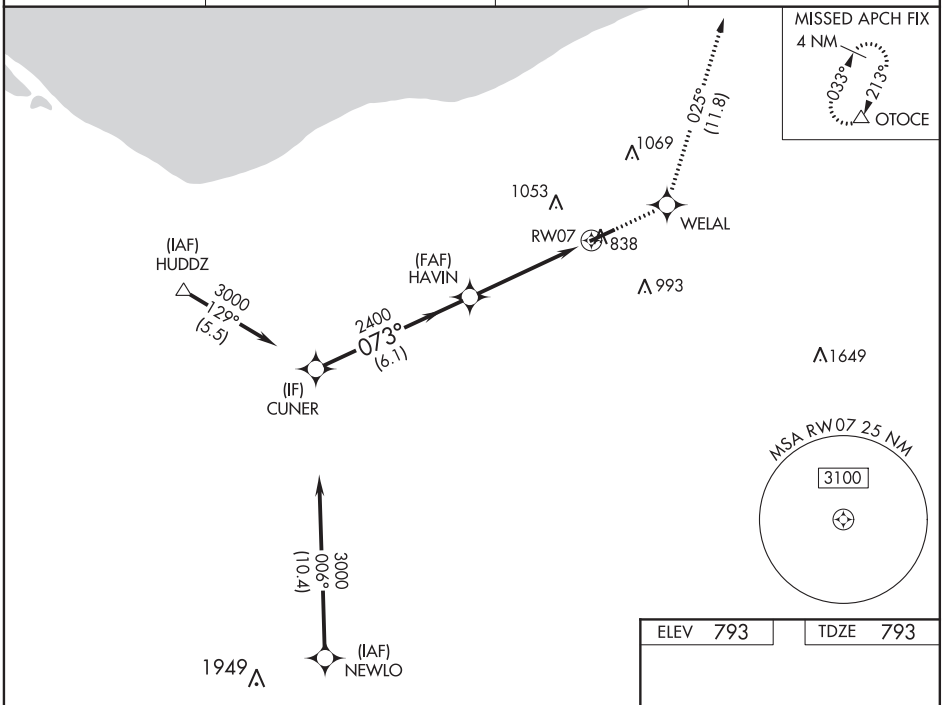
RNP APCH.

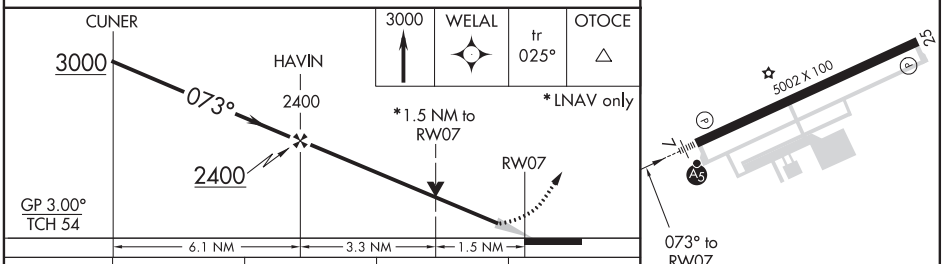
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).

MALSR

MISSED APPROACH: Climb to 3000 direct WELAL and on track 025° to OTOCE and hold.

ASOS	CLEVELAND APP CON	CLNC DEL	UNICOM
121.425	126.35 346.325	125.7	122.7 (CTAF) L





ELEV 793	TDZE 793

CATEGORY	A	B	C	D
LPV DA	993-½ 200 (200-½)			
LNAV/VNAV DA	1133-¾ 340 (400-¾)			
LNAV MDA	1340-½ 547 (600-½)		1340-1⅛ 547 (600-1⅛)	
C CIRCLING	1340-1 547 (600-1)	1360-1 567 (600-1)	1420-1¾ 627 (700-1¾)	1420-2 627 (700-2)

REIL Rwy 25 L
HIRL Rwy 7-25 L

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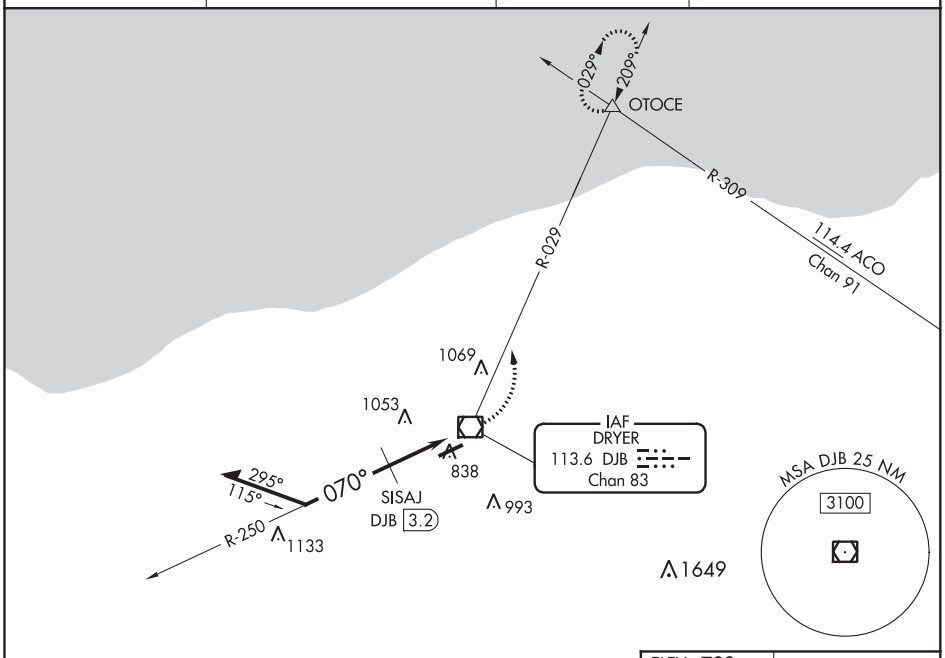
VOR/DME DJB 113.6 Chan 83	APP CRS 070°	Rwy ldg N/A TDZE N/A Apt Elev 793

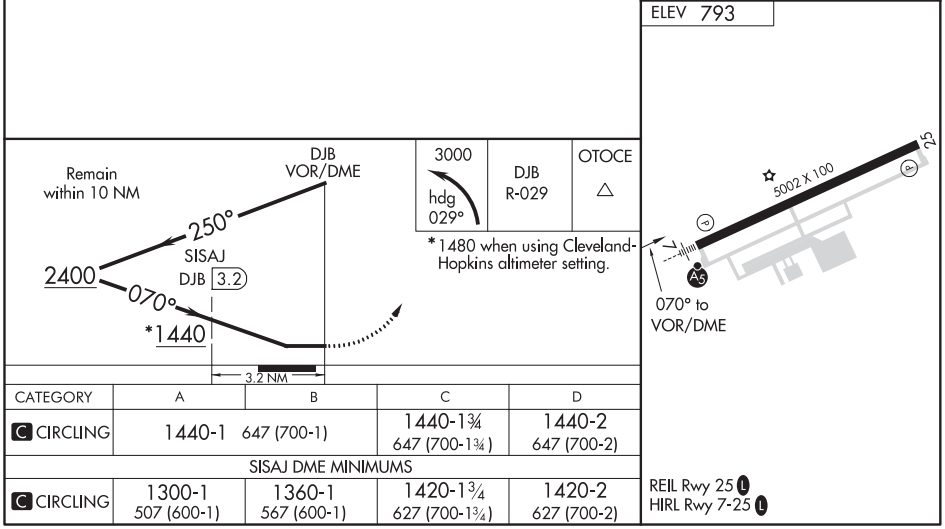
VOR-A
LORAIN COUNTY RGNL (LPR)

When local altimeter setting not received, use Cleveland-Hopkins Intl altimeter setting and increase all MDA 40 feet, increase circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 3000 via heading 029° and DJB VOR/DME R-029 direct OTOCE INT and hold.

ASOS	CLEVELAND APP CON	CLNC DEL	UNICOM
121.425	126.35 346.325	125.7	122.7 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	1440-1 647 (700-1)		1440-1¾ 647 (700-1¾)	1440-2 647 (700-2)
SISAJ DME MINIMUMS				
C CIRCLING	1300-1 507 (600-1)	1360-1 567 (600-1)	1420-1¾ 627 (700-1¾)	1420-2 627 (700-2)

REIL Rwy 25 L
HIRL Rwy 7-25 L

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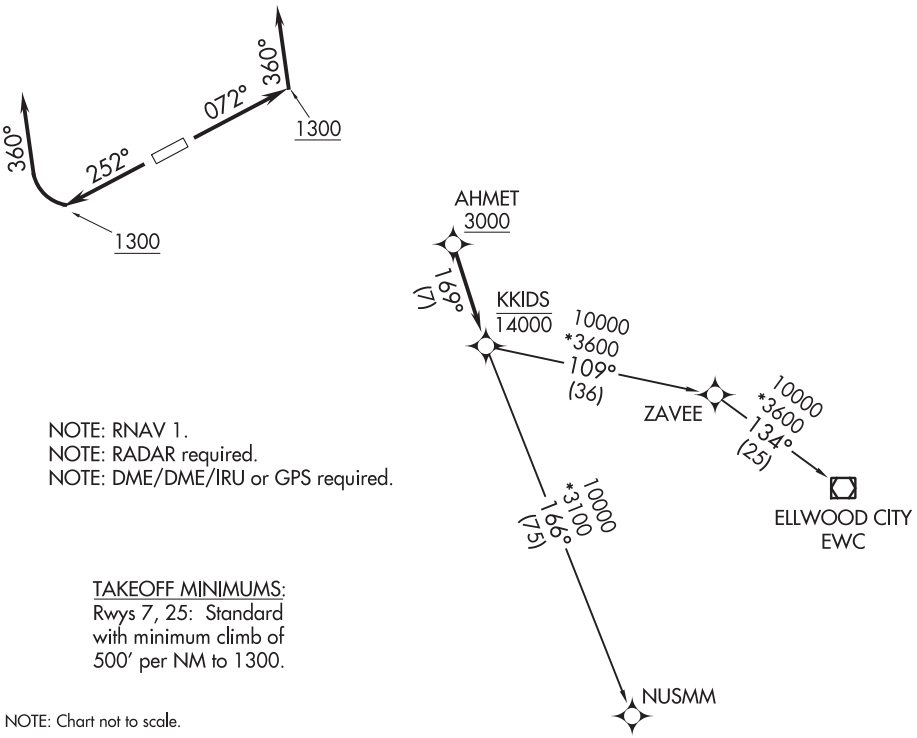
(AHMET4.KKIDS) 20086 AL-5703 (FAA)

AHMET FOUR DEPARTURE (RNAV)

LORAIN COUNTY RGNL (LPR)
LORAIN/ELYRIA, OHIO

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.425
CLNC DEL
125.7
CTAF
122.7
CLEVELAND DEP CON
126.35 346.325



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

TAKEOFF MINIMUMS:
Rwys 7, 25: Standard with minimum climb of 500′ per NM to 1300.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 072° to 1300, then on heading 360° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAY 25: Climb on heading 252° to 1300, then right turn on heading 360° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....

....on track 169° to cross KKIDS at or below 14000, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

ELLWOOD CITY TRANSITION (AHMET4.EWC)
NUSMM TRANSITION (AHMET4.NUSMM)

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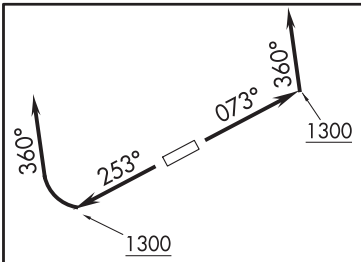
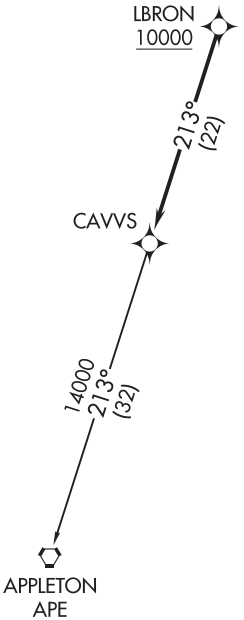
CAVVS FOUR DEPARTURE (RNAV)

LORAIN COUNTY RGNL (LPR)
LORAIN/ELYRIA, OHIO

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.425
CLNC DEL
125.7
CTAF
122.7
CLEVELAND DEP CON
126.35 346.325





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

TAKEOFF MINIMUMS:
Rwys 7, 25: Standard with a minimum climb of 500′ per NM to 1300.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 073° to 1300, then on heading 360° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 25: Climb on heading 253° to 1300, then right turn heading 360° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....

....on track 213° to CAVVS, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

APPLETON TRANSITION (CAVVS4.APE)

NOTE: Chart not to scale.

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ASOS
121.425
CLNC DEL
125.7
CTAF
122.7
CLEVELAND DEP CON
126.35 346.325

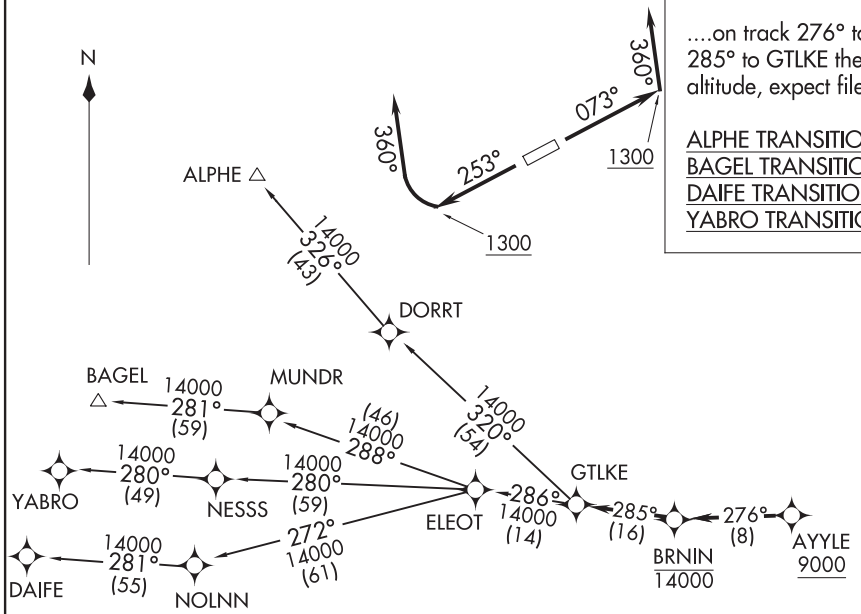
TOP ALTITUDE: ASSIGNED BY ATC

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 073° to 1300, then on heading 360° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....
TAKEOFF RUNWAY 25: Climb on heading 253° to 1300, then right turn heading 360° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

....on track 276° to cross BRNIN at or below 14000, then on track 285° to GTLKE then on (transition). Maintain ATC assigned altitude, expect filed altitude 10 minutes after departure.

ALPHE TRANSITION (GTLKE4.ALPHE)
BAGEL TRANSITION (GTLKE4.BAGEL)
DAIFE TRANSITION (GTLKE4.DAIFE)
YABRO TRANSITION (GTLKE4.YABRO)



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: BAGEL TRANSITION: For aircraft landing MDW only, or as assigned by ATC.
NOTE: DAIFE TRANSITION: For aircraft landing ORD only, or as assigned by ATC.

TAKEOFF MINIMUMS:
Rwys 7, 25: Standard with a minimum climb of 500′ per NM to 1300.

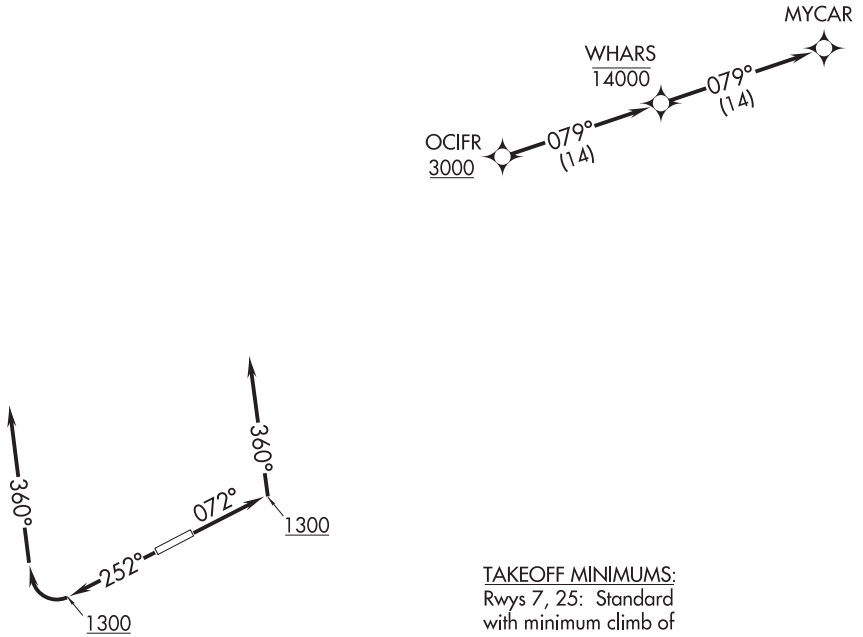
NOTE: Chart not to scale.

MYCAR FOUR DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.425
CLNC DEL
125.7
CTAF
122.7
CLEVELAND DEP CON
126.35 346.325

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



TAKEOFF MINIMUMS:
Rwys 7, 25: Standard with minimum climb of 500′ per NM to 1300.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 072° to 1300, then on heading 360° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAY 25: Climb on heading 252° to 1300, then right turn on heading 360° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....

....on track 079° to cross WHARS at or below 14000, then on track 079° to MYCAR. Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

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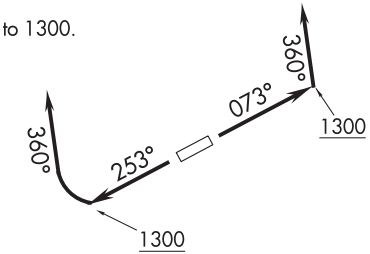
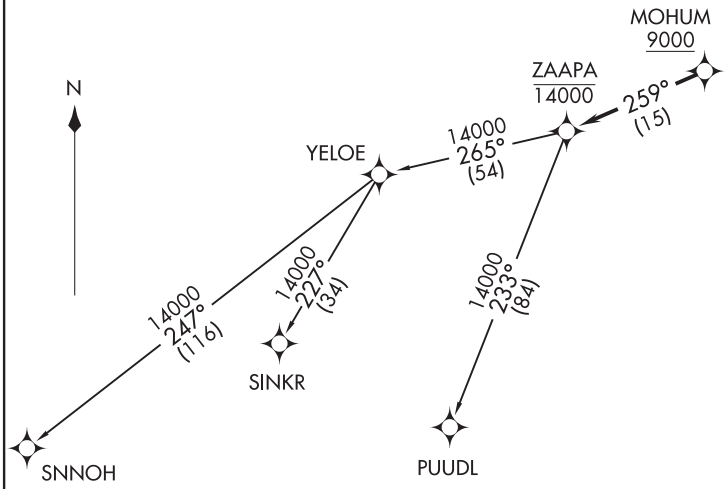
ASOS
121.425
CLNC DEL
125.7
CTAF
122.7
CLEVELAND DEP CON
126.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 7, 25: Standard with a minimum climb of 500′ per NM to 1300.



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: PUUDL TRANSITION: For aircraft at or below FL220 only or as assigned by ATC.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 7: Climb on heading 073° to 1300, then on heading 360° or as assigned by ATC for RADAR vectors to cross MOHUM at or above 9000, thence....
TAKEOFF RUNWAY 25: Climb on heading 253° to 1300, then right turn heading 360° or as assigned by ATC for RADAR vectors to cross MOHUM at or above 9000, thence....

....on track 259° to cross ZAAPA at or below 14000, then on (transition). Maintain ATC assigned altitude, expect filed altitude ten minutes after departure.

PUUDL TRANSITION (ZAAPA5.PUUDL)
SINKR TRANSITION (ZAAPA5.SINKR)
SNNOH TRANSITION (ZAAPA5.SNNOH)

APP CRS	Rwy ldg	5000
035°	TDZE	812
	Apt Elev	819

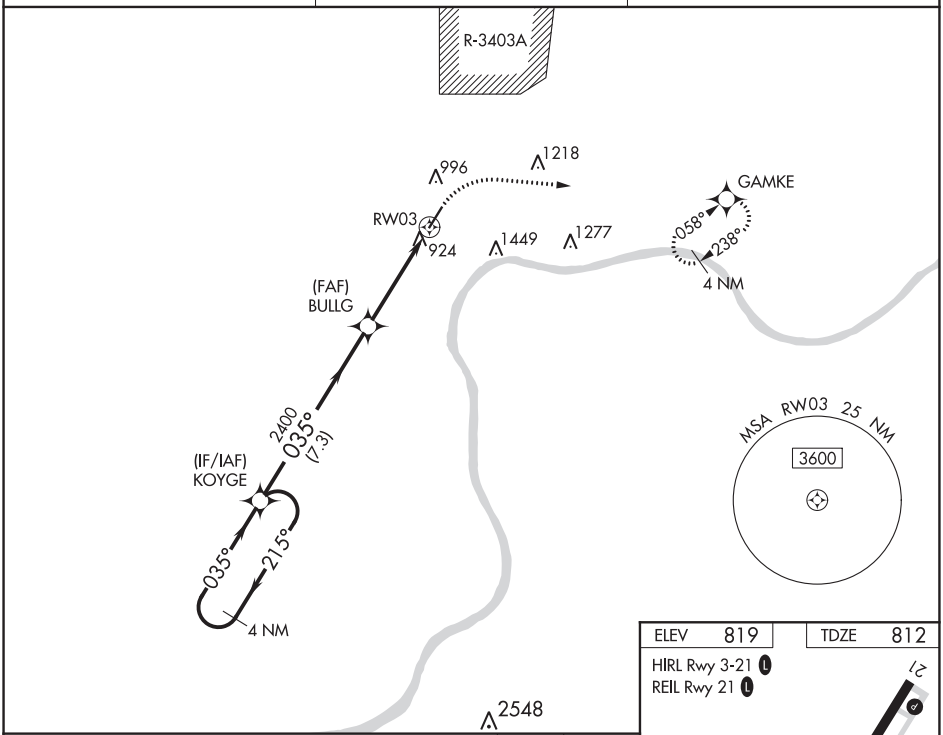
RNAV (GPS) Y RWY 3
MADISON MUNI (IMS)

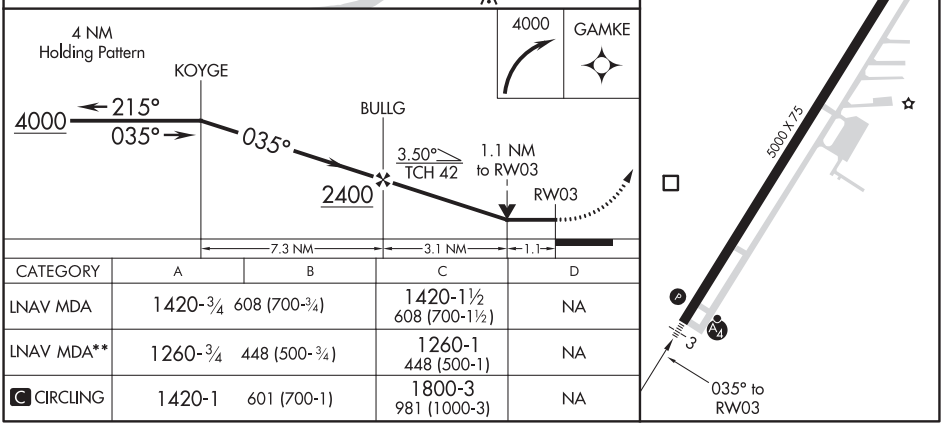
DME/DME RNP-0.3 NA. Rwy 3 helicopter visibility reduction below ¾ SM NA. Rwy 21 helicopter visibility reduction below 1 SM NA. Circling Rwy 21 NA at night. For inoperative ALS increase **LNAV Cat C visibility to 1⅜ SM.

MALSF

MISSED APPROACH: Climbing right turn to 4000 direct GAMKE and hold, continue climb-in-hold to 4000.
**Missed approach requires minimum climb of 410 feet per NM to 1900.

AWOS-3	LOUISVILLE APP CON	UNICOM
119.175	132.075 327.0	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1420-¾ 608 (700-¾)		1420-1½ 608 (700-1½)	NA
LNAV MDA**	1260-¾ 448 (500-¾)		1260-1 448 (500-1)	NA
C CIRCLING	1420-1 601 (700-1)		1800-3 981 (1000-3)	NA

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MADISON, INDIANA | AL-5710 (FAA) | 19115

WAAS CH 45708 W03A	APP CRS 035°	Rwy ldg 5000 TDZE 812 Apt Elev 819

RNAV (GPS) Z RWY 3
MADISON MUNI (IMS)

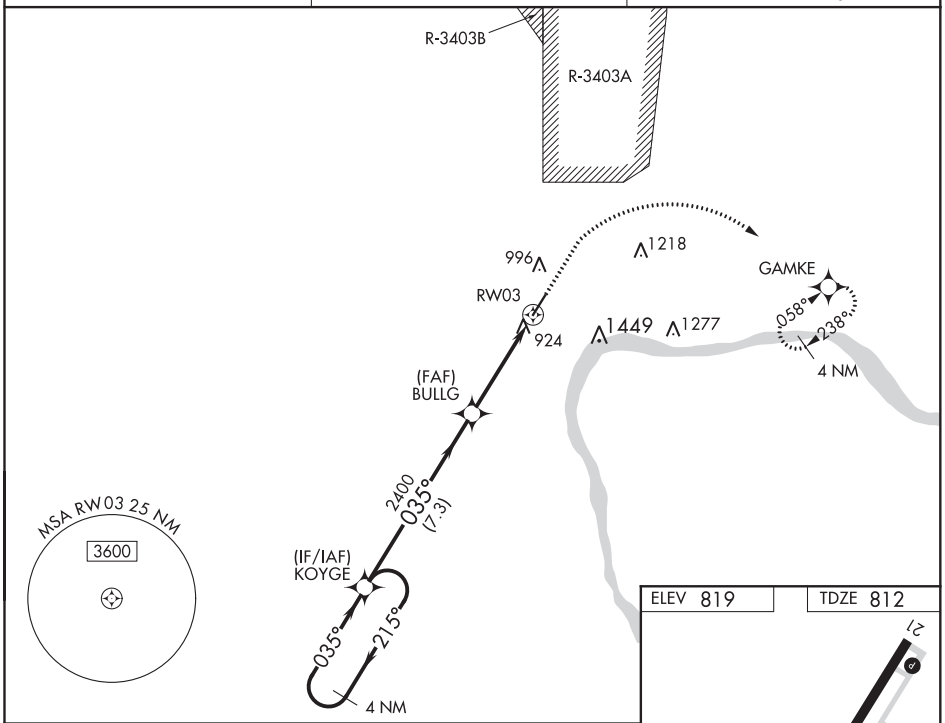
NA

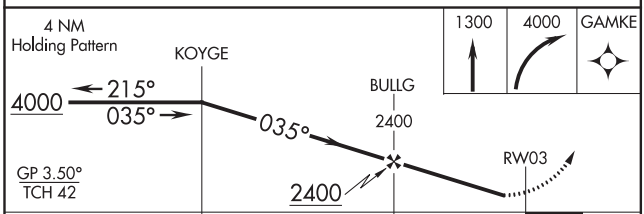
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Rwy 3 helicopter visibility reduction below ¾ SM NA. For inoperative ALS, increase **LNAV/VNAV all Cats visibility to ⅞ SM. For inoperative ALS when using Bowman Field altimeter setting, increase LPV all Cats visibility to 1⅜ SM; increase **LNAV/VNAV all Cats visibility to ⅞ SM and LNAV/VNAV all Cats visibility to 2½ SM.

MALSF

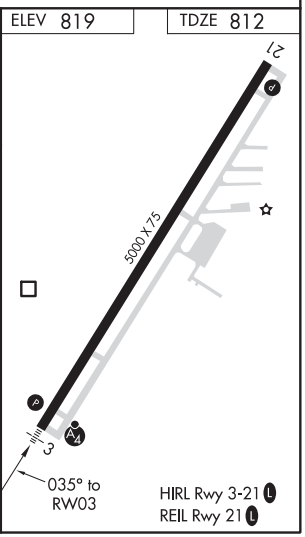
MISSED APPROACH: Climb to 1300 then climbing right turn to 4000 direct GAMKE and hold, continue climb-in-hold to 4000.
**Missed approach requires mimimum climb of 410 feet per NM to 1900.

AWOS-3	LOUISVILLE APP CON	UNICOM
119.175	132.075 327.0	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1142-¾ 330 (400-¾)			NA
LNAV/VNAV DA**	1095-¾ 283 (300-¾)			NA
LNAV/VNAV DA	1420-1⅝ 608 (700-1⅝)			NA



MADISON, INDIANA
Amdt 2 07DEC17

38°46'N-85°28'W

MADISON MUNI (IMS)
RNAV (GPS) Z RWY 3

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-MFD	APP CRS	Rwy ldg / TDZE / Apt Elev
110.5	323°	9001 / 1293 / 1297

ILS or LOC RWY 32
MANSFIELD LAHM RGNL (MFD)

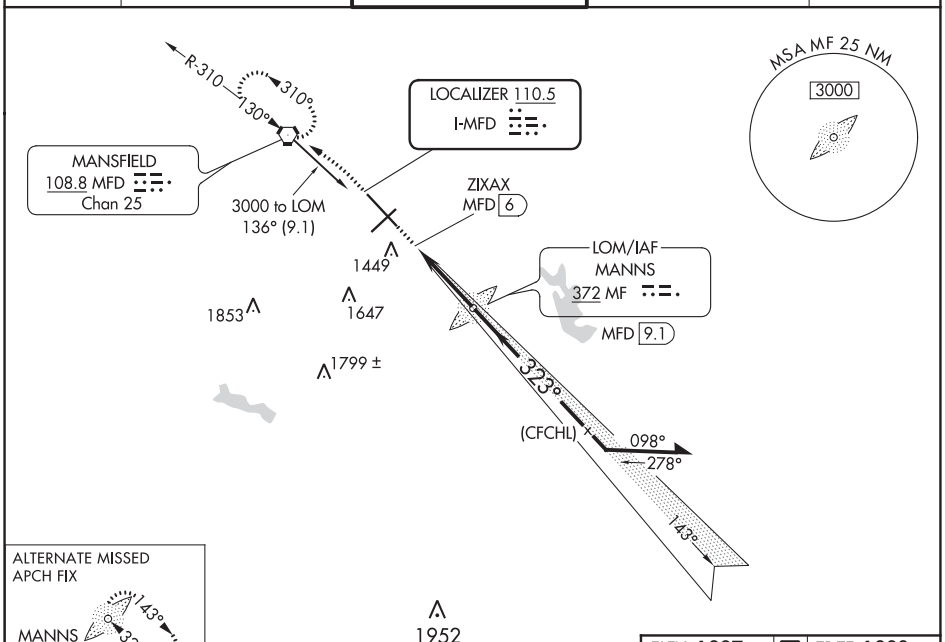
ADF or DME.

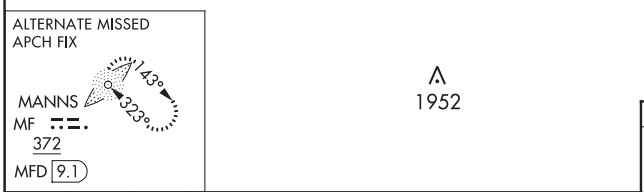
For inop ALS increase S-ILS 32 all Cats visibility to 1¼ SM.

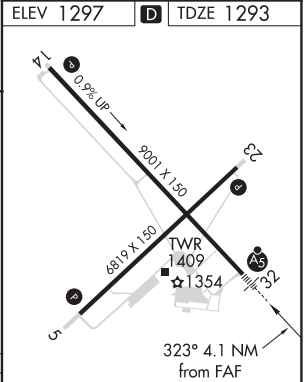
MALSR

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct MFD VORTAC and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95







REIL Rwys 5 and 23 L
HIRL Rwys 5-23 and 14-32 L

CATEGORY	A	B	C	D
S-ILS 32	1493/24 200 (200-½)			
S-LOC 32	1840/40 547 (600-¾)		1840/60 547 (600-1¼)	
C CIRCLING	1840-1 543 (600-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

MANSFIELD, OHIO | AL-860 (FAA) | 21056

WAAS CH 86519 W05A	APP CRS 053°	Rwy ldg 6819 TDZE 1297 Apt Elev 1297

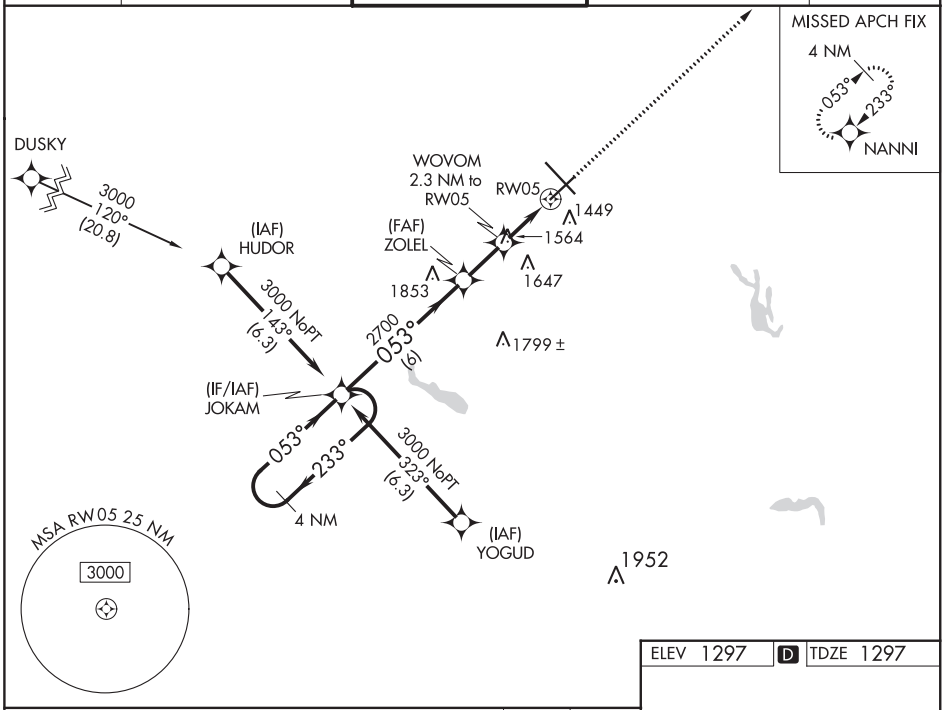
RNAV (GPS) RWY 5
MANSFIELD LAHM RGNL (MFD)

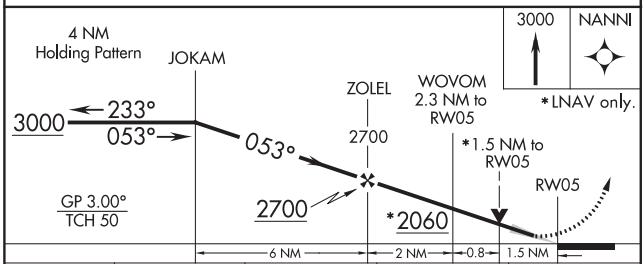
RNP APCH

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F).

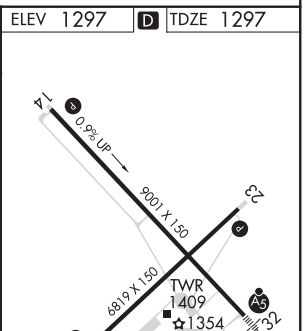
MISSED APPROACH: Climb to 3000 direct NANNI and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95





CATEGORY	A	B	C	D
LPV DA	1547-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1590-1 293 (300-1)			
LNAV MDA	1820-1 523 (600-1)		1820-1½ 523 (600-1½)	
C CIRCLING	1820-1 523 (600-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)



HIRL Rwys 5-23 and 14-32 L
REIL Rwys 5 and 23 L

MANSFIELD, OHIO
Amdt 1A 13SEP18

40°49′N-82°31′W

MANSFIELD LAHM RGNL (MFD)
RNAV (GPS) RWY 5

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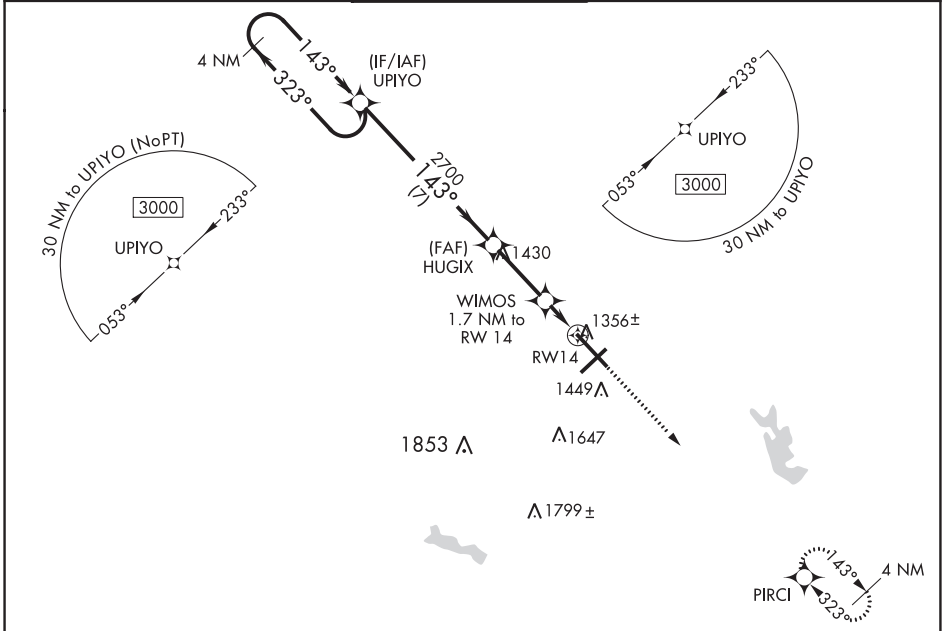
WAAS CH 53426 W14A	APP CRS 143°	Rwy ldg 9001 TDZE 1276 Apt Elev 1297

RNAV (GPS) RWY 14
MANSFIELD LAHM RGNL (MFD)

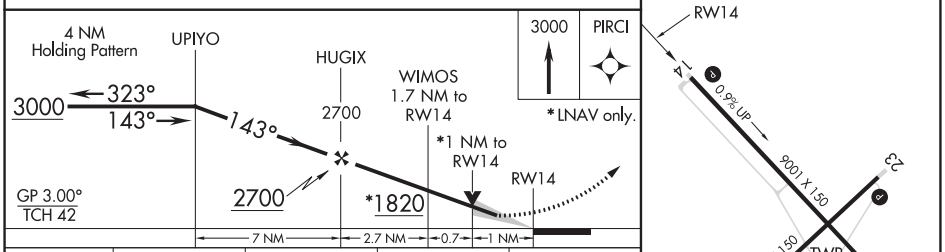
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 36°C (96°F). When local altimeter not received, use Marion altimeter setting and increase all DA 107 feet and all MDA 120 feet, and LPV all Cats visibility to 1 SM, LNAV/VNAV all Cats, and LNAV Cat C/D to 1⅜ SM. Increase Circling Cat C/D visibility ½ SM. VDP and Baro-VNAV NA when using Marion altimeter setting.

MISSED APPROACH: Climb to 3000 direct PIRCI and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95



ELEV 1297	D	TDZE 1276



CATEGORY	A	B	C	D
LPV DA	1476-¾ 200 (200-¾)			
LNAV/VNAV DA	1557-⅞ 281 (300-⅞)			
LNAV MDA	1620-1 344 (400-1)			
C CIRCLING	1760-1 463 (500-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

HIRL Rwys 5-23 and 14-32 L
REIL Rwys 5 and 23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

MANSFIELD, OHIO — AL-860 (FAA) — 21056

RNAV (GPS) RWY 23
MANSFIELD LAHM RGNL (MFD)

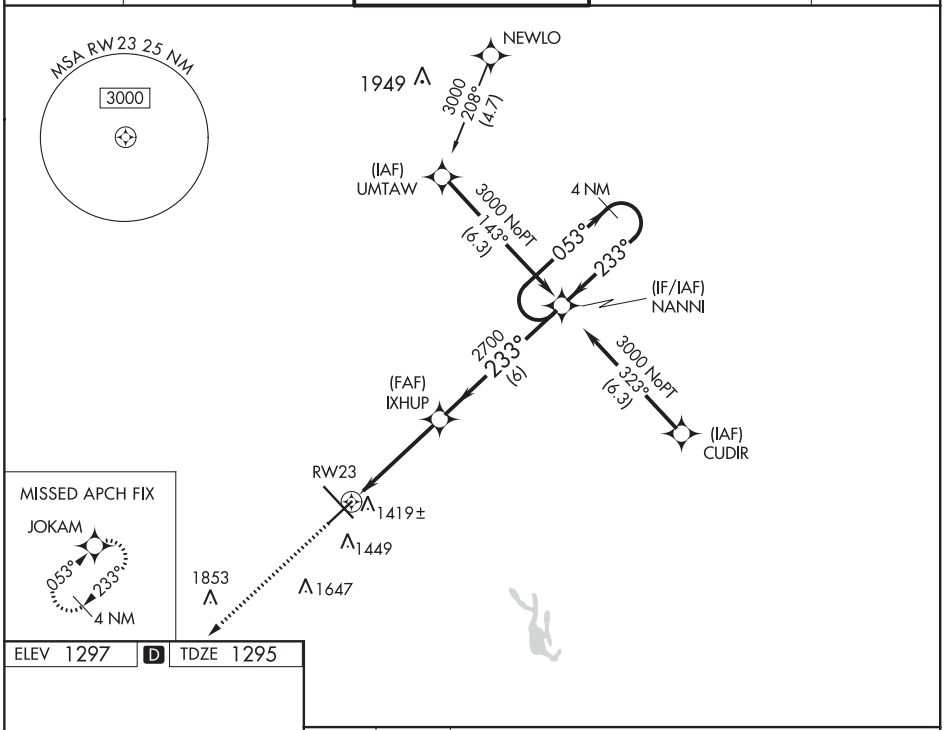
WAAS CH 87119 W23A	APP CRS 233°	Rwy ldg 6819 TDZE 1295 Apt Elev 1297

RNP APCH.

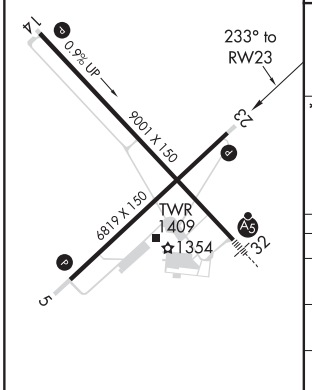
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). Rwy 23 helicopter visibility reduction below ¾ SM NA.

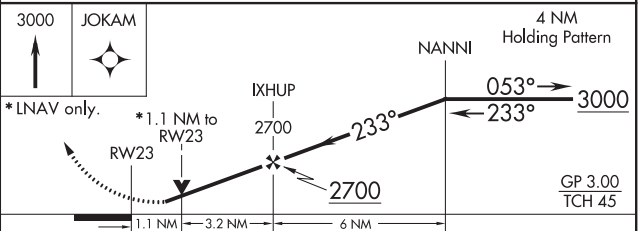
MISSED APPROACH: Climb to 3000 direct JOKAM and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95



ELEV 1297 | D | TDZE 1295





* LNAV only.

CATEGORY	A	B	C	D
LPV DA	1545-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1619-1⅛ 324 (400-1⅛)			
LNAV MDA	1680-1 385 (400-1)		1680-1⅛ 385 (400-1⅛)	
C CIRCLING	1760-1 463 (500-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

HIRL Rwys 5-23 and 14-32 L
REIL Rwys 5 and 23 L

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EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 32
MANSFIELD LAHM RGNL (MFD)

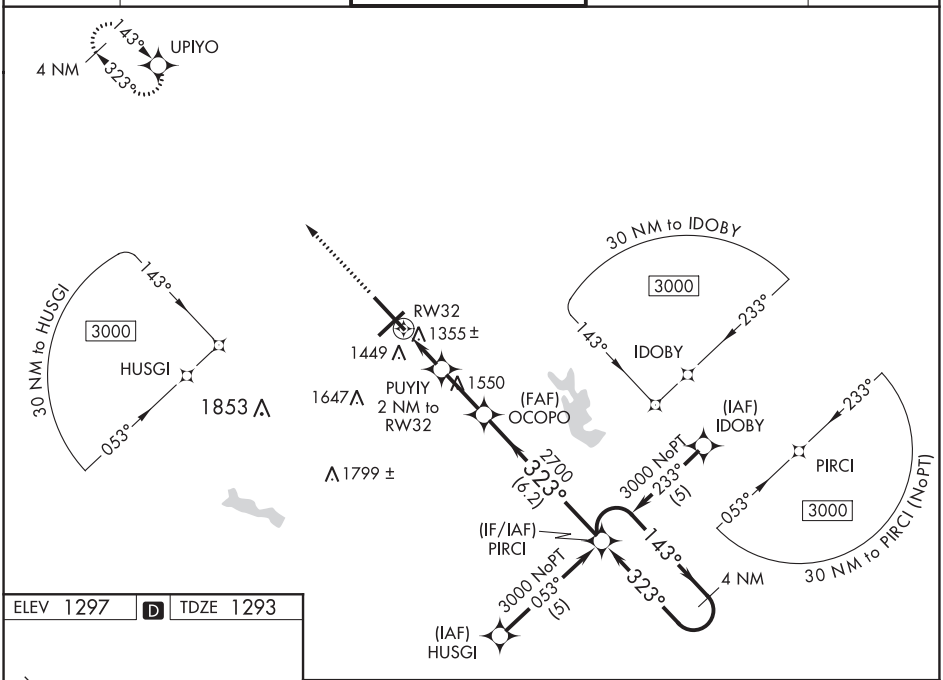
WAAS CH 99611 W32A	APP CRS 323°	Rwy ldg 9001 TDZE 1293 Apt Elev 1297

T A Baro-VNAV NA when using Marion altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter not received, use Marion altimeter setting and increase all DA 107 feet and all MDA 120 feet, LNAV/VNAV all Cats visibility ½ SM, LNAV Cat C/D visibility ⅜ SM and Circling Cat C/D visibility ½ SM. For inop MALSR when using Marion altimeter setting increase LPV all Cats visibility to 1. VDP NA with Marion altimeter setting. ** RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Marion altimeter setting.

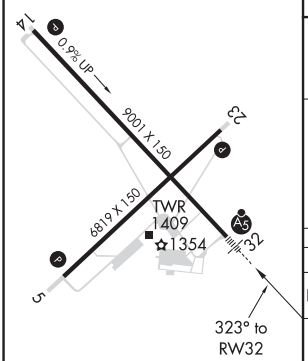
MALSR A5

MISSED APPROACH: Climb to 3000 direct UPIYO and hold.

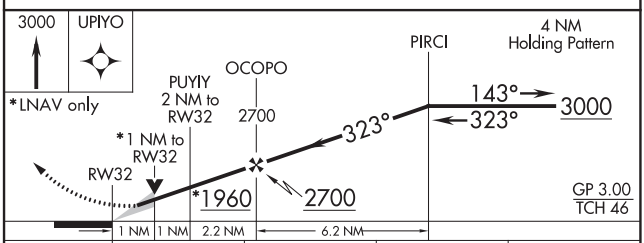
ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95



ELEV 1297 D TDZE 1293



HIRL Rwys 5-23 and 14-32 L
REIL Rwys 5 and 23 L



CATEGORY	A	B	C	D
LPV DA**	1493/24 200 (200-½)			
LNAV/VNAV DA	1789/60 496 (500-1¼)			
LNAV MDA	1660/24 367 (400-½)		1660/35 367 (400-⅝)	
C CIRCLING	1760-1 463 (500-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

MANSFIELD, OHIO | AL-860 (FAA) | 21056

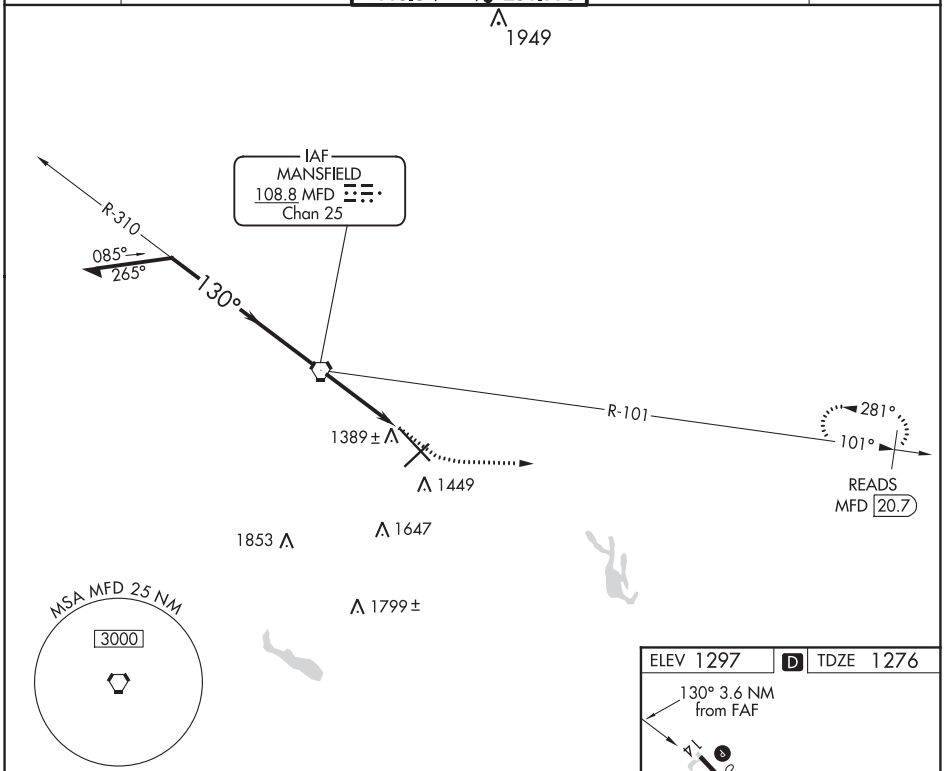
VORTAC MFD	APP CRS	Rwy ldg	9001
108.8	130°	TDZE	1276
Chan 25		Apt Elev	1297

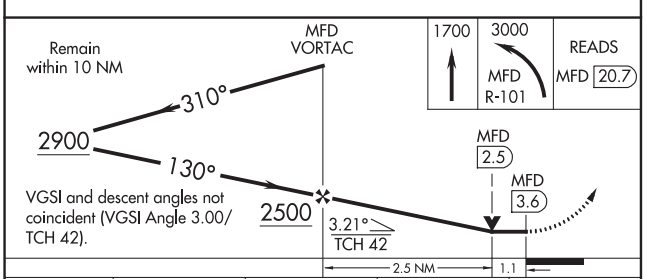
VOR RWY 14
MANSFIELD LAHM RGNL (MFD)

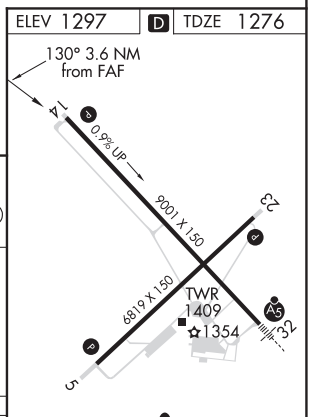
DME required. RADAR required for procedure entry.

MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 on MFD VORTAC R-101 to READS/MFD 20.7 DME and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95







REIL Rwys 5 and 23 L
HIRL Rwys 5-23 and 14-32 L

CATEGORY	A	B	C	D
S-14	1640-1 364 (400-1)			
C CIRCLING	1760-1 463 (500-1)		2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

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EC-2, 25 FEB 2021 to 22 APR 2021

VOR RWY 32
MANSFIELD LAHM RGNL (MFD)

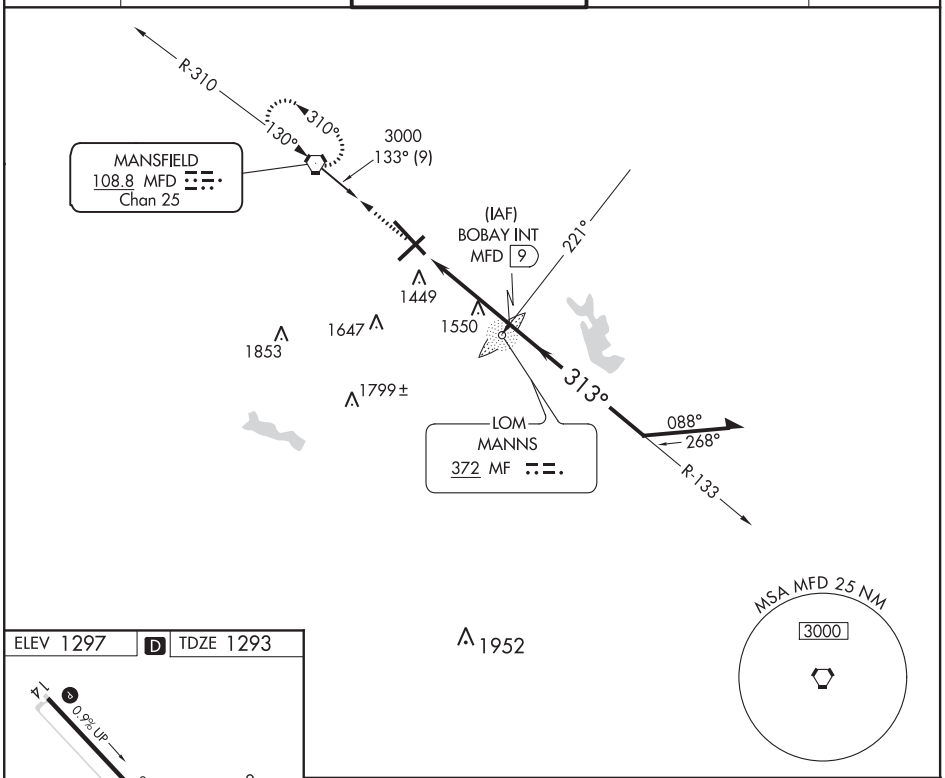
VORTAC MFD	APP CRS	Rwy ldg	9001
108.8	313°	TDZE	1293
Chan 25		Apt Elev	1297

ADF or DME required. RADAR required for procedure entry.

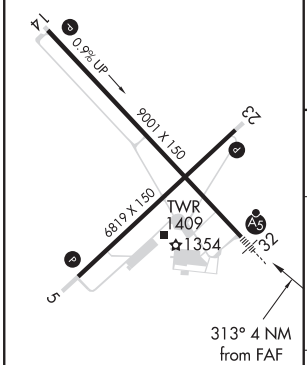
MALSR

MISSED APPROACH: Climb to 3000 direct MFD VORTAC and hold.

ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95

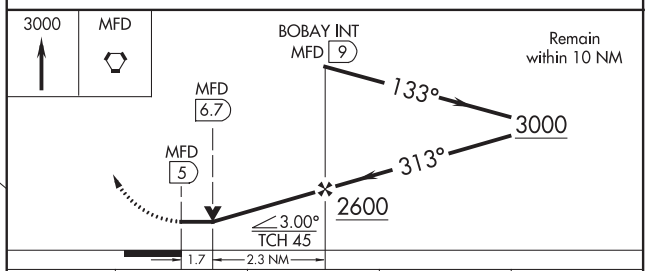


ELEV 1297 D TDZE 1293



REIL Rwys 5 and 23 L
HIRL Rwys 5-23 and 14-32 L

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20



CATEGORY	A	B	C	D
S-32	1860/24	567 (600-½)	1860/50 567 (600-1)	1860/60 567 (600-1¼)
C CIRCLING	1860-1	563 (600-1)	2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

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EC-2, 25 FEB 2021 to 22 APR 2021

NDB RWY 32
MANSFIELD LAHM RGNL (MFD)

LOM MF	APP CRS	Rwy ldg / TDZE / Apt Elev
372	323°	9001 / 1293 / 1297

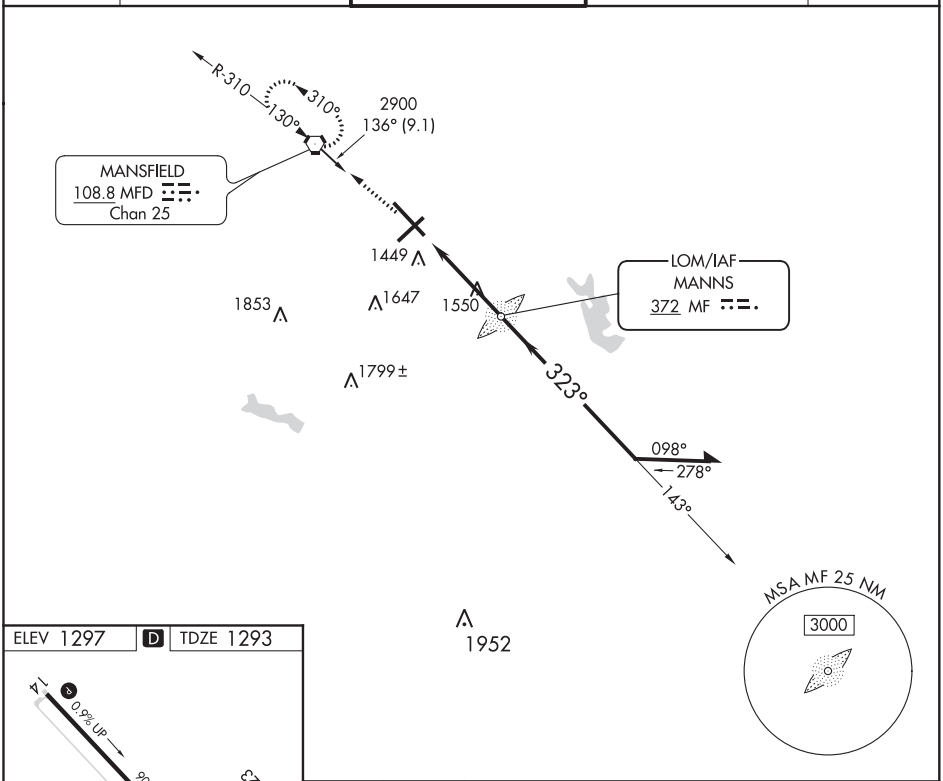
RADAR required for procedure entry.

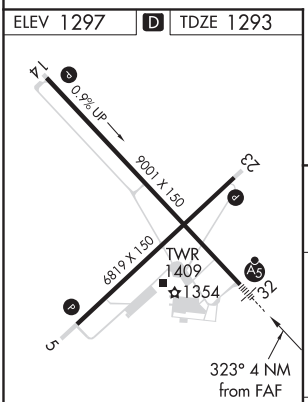
For inoperative ALS increase Cats A/B visibility to RVR 5500 and Cats C/D visibility to 1¾ SM.

MALSR

MISSED APPROACH: Climb to 2900 direct MFD VORTAC and hold.

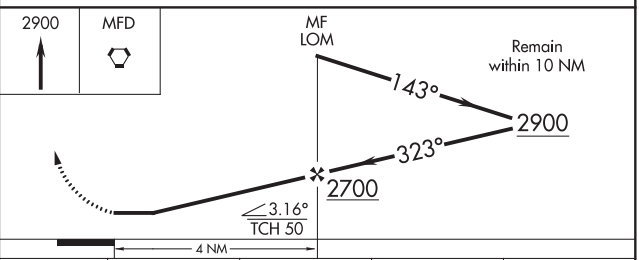
ATIS	CLEVELAND APP CON ★	MANSFIELD TOWER ★	GND CON	UNICOM
125.3	124.2 360.65	119.8 (CTAF) L 291.775	121.8 291.775	122.95





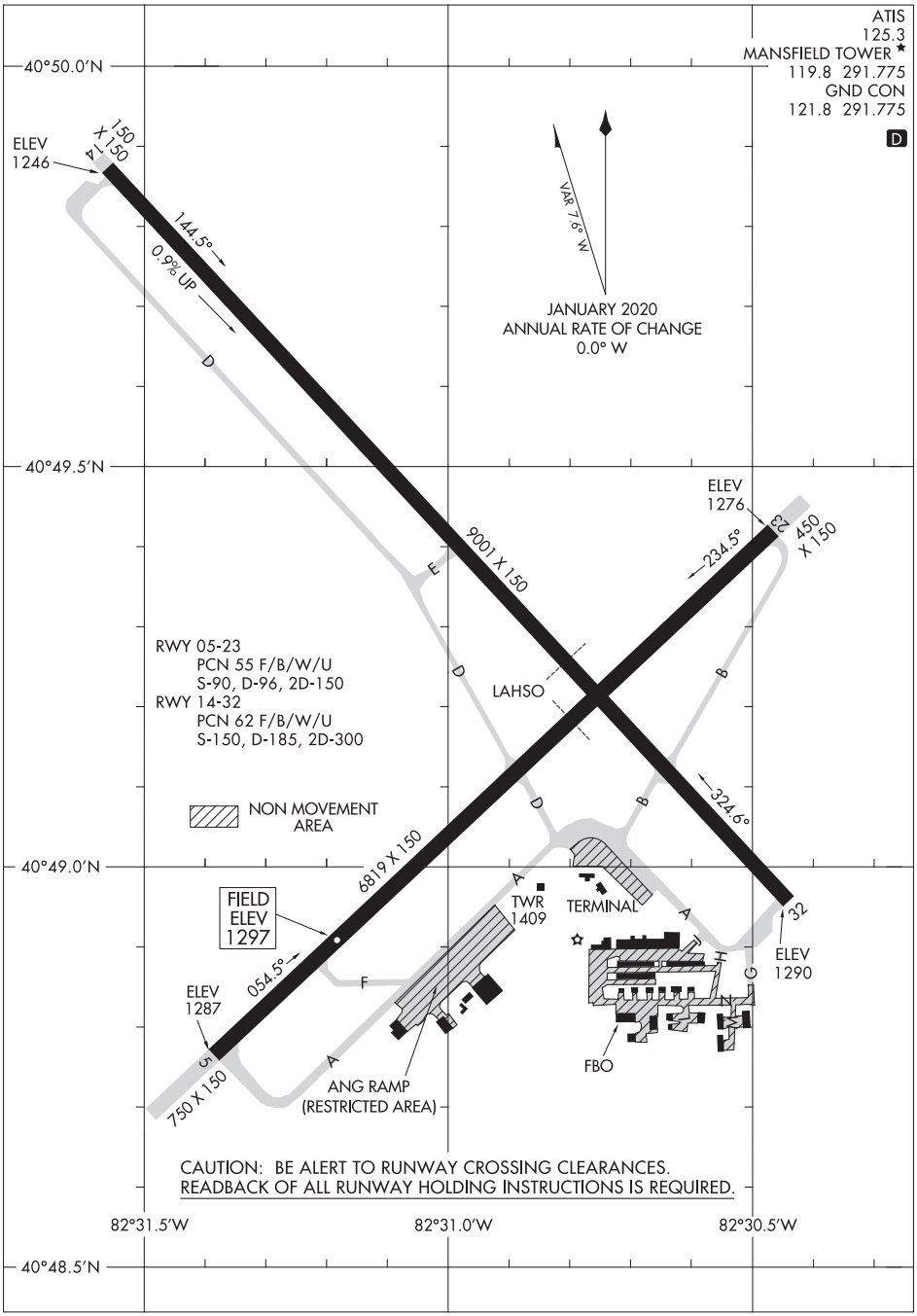
HIRL Rwys 5-23 and 14-32 L
REIL Rwys 5 and 23 L

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20



CATEGORY	A	B	C	D
S-32	1900/40	607 (700-¾)	1900-1⅜	607 (700-1⅜)
C CIRCLING	1900-1	603 (700-1)	2000-2 703 (800-2)	2000-2¼ 703 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

MARION, INDIANA | AL-5064 (FAA) | 21056

ILS or LOC RWY 4
MARION MUNI - MCKINNEY FIELD (MZZ)

LOC I-MZZ 111.7	APP CRS 041°	Rwy ldg 6011 TDZE 858 Apt Elev 859

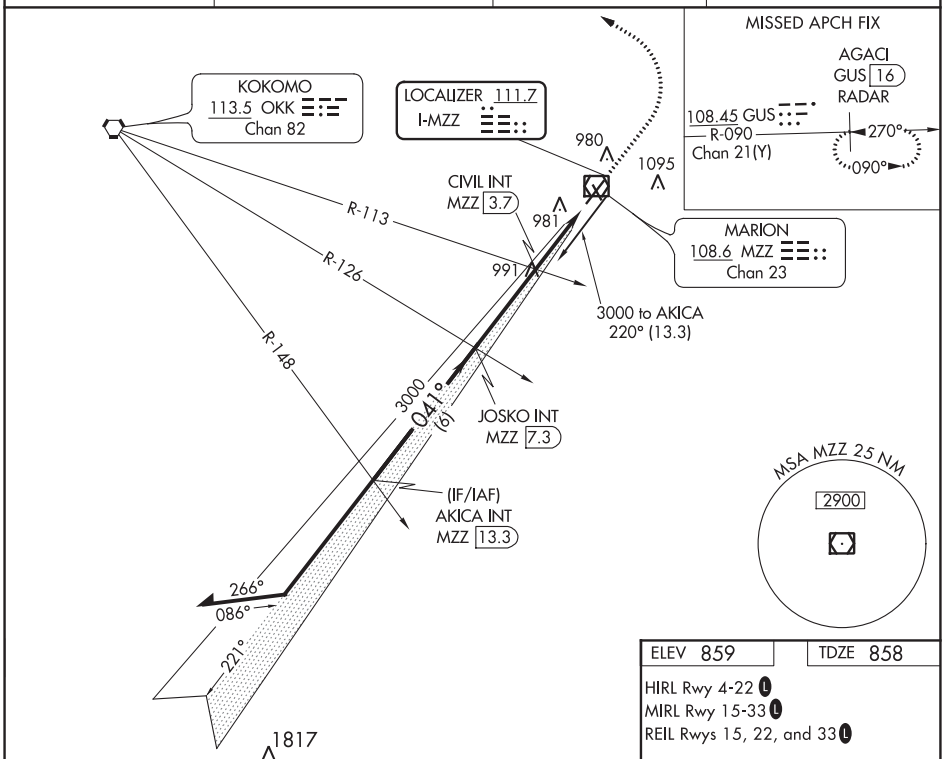
DME required.

DME from MZZ VOR/DME.
NA Simultaneous reception of I-MZZ and MZZ DME required.

MALSR

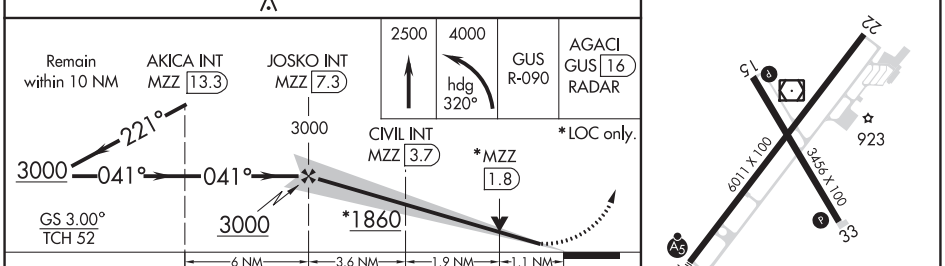
MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 on heading 320° to intercept GUS VORTAC R-090 to AGACI/ GUS VORTAC 16 DME/RADAR and hold.

AWOS-3	GRISSOM APP CON *	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L



ELEV 859 | TDZE 858

HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, 22, and 33 L



CATEGORY	A	B	C	D
S-ILS 4	1058-½ 200 (200-½)			
S-LOC 4	1260-½ 402 (500-½)			
C CIRCLING	1300-1 441 (500-1)	1320-1 461 (500-1)	1400-1½ 541 (600-1½)	1500-2 641 (700-2)

FAF to MAP 6.6 NM

Knots	60	90	120	150	180
Min:Sec	6:34	4:22	3:17	2:37	2:11

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 60906 W04A	APP CRS 041°	Rwy ldg 6011 TDZE 858 Apt Elev 859

RNAV (GPS) RWY 4
MARION MUNI - MCKINNEY FIELD (MZZ)

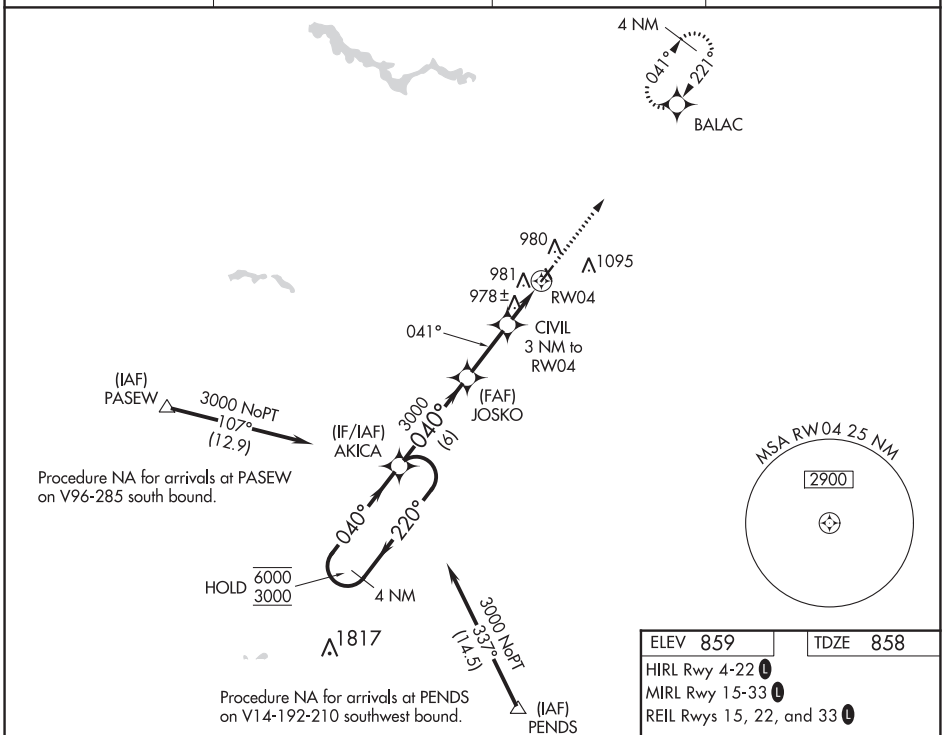
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MALSR

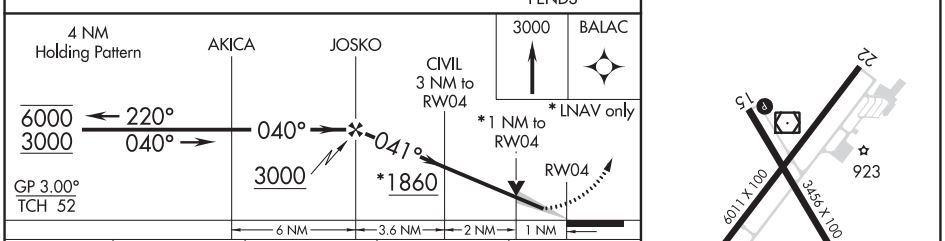
MISSED APPROACH: Climb to 3000 direct BALAC and hold.

AWOS-3	GRISSOM APP CON ★	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L

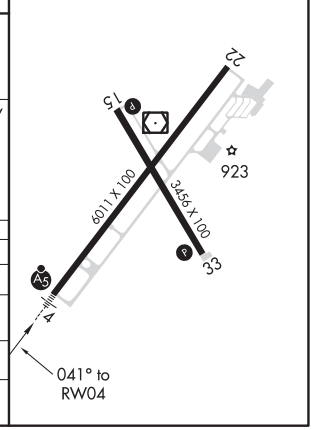


ELEV 859	TDZE 858

HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, and 33 L



CATEGORY	A	B	C	D
LPV DA	1058-½ 200 (200-½)			
LNAV/VNAV DA	1247-⅝ 389 (400-⅝)			
LNAV MDA	1240-½ 382 (400-½)		1240-⅝ 382 (400-⅝)	
C CIRCLING	1300-1 441 (500-1)	1320-1 461 (500-1)	1400-1½ 541 (600-1½)	1500-2 641 (700-2)



EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

MARION, INDIANA | AL-5064 (FAA) | 21056

APP CRS	Rwy ldg	3456
153°	TDZE	859
	Apt Elev	859

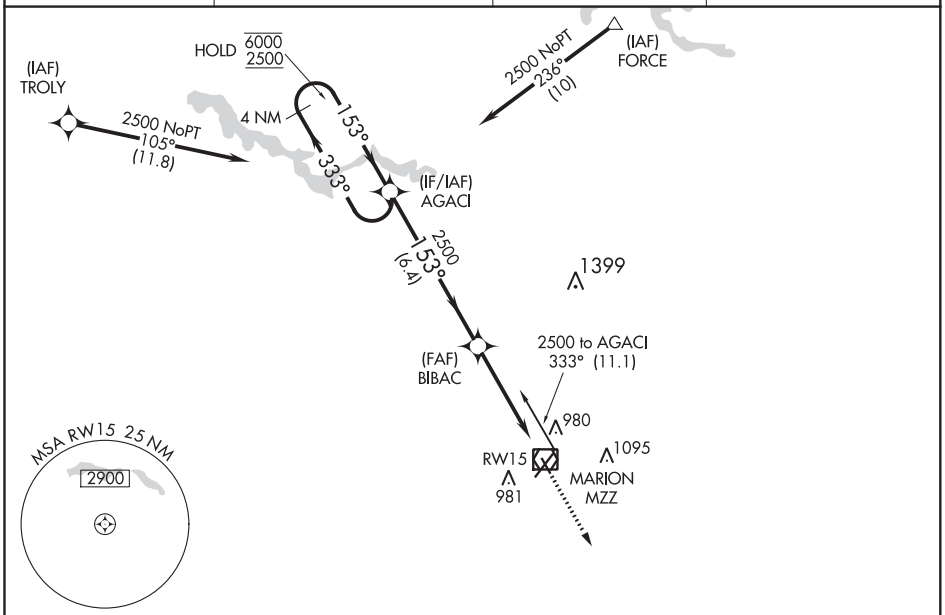
RNAV (GPS) RWY 15
MARION MUNI - MCKINNEY FIELD (MZZ)

RNP APCH.

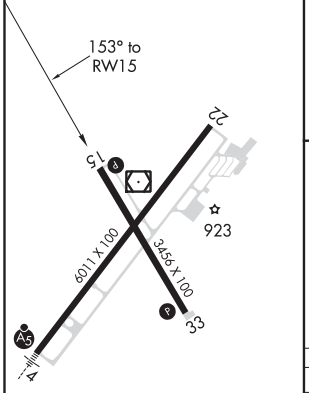
Rwy 15 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct AKUYA and hold.

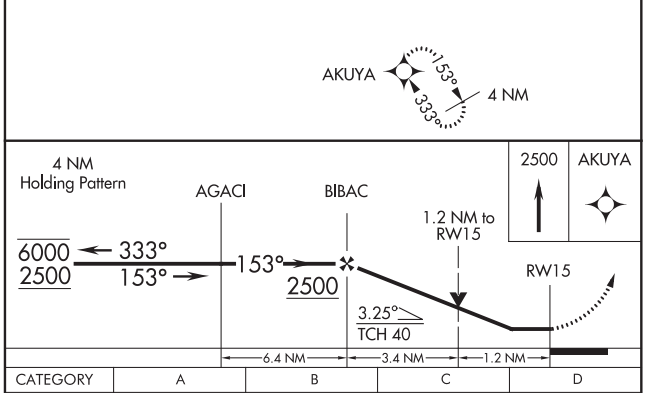
AWOS-3	GRISSOM APP CON ★	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L



ELEV 859 | TDZE 859



HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, 22, and 33 L



CATEGORY	A	B	C	D
LNAV MDA	1300-1 441 (500-1)		1300-1⅜ 441 (500-1⅜)	
C CIRCLING	1300-1 441 (500-1)	1320-1 461 (500-1)	1400-1½ 541 (600-1½)	1500-2 641 (700-2)

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APP CRS	Rwy ldg	6011
221°	TDZE	859
	Apt Elev	859

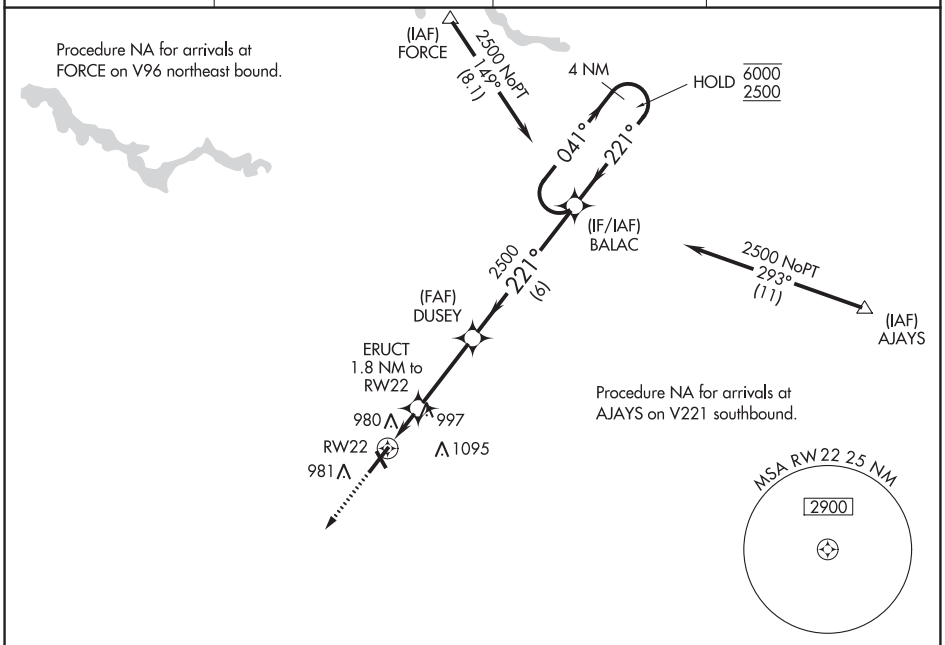
RNAV (GPS) RWY 22
MARION MUNI - MCKINNEY FIELD (MZZ)

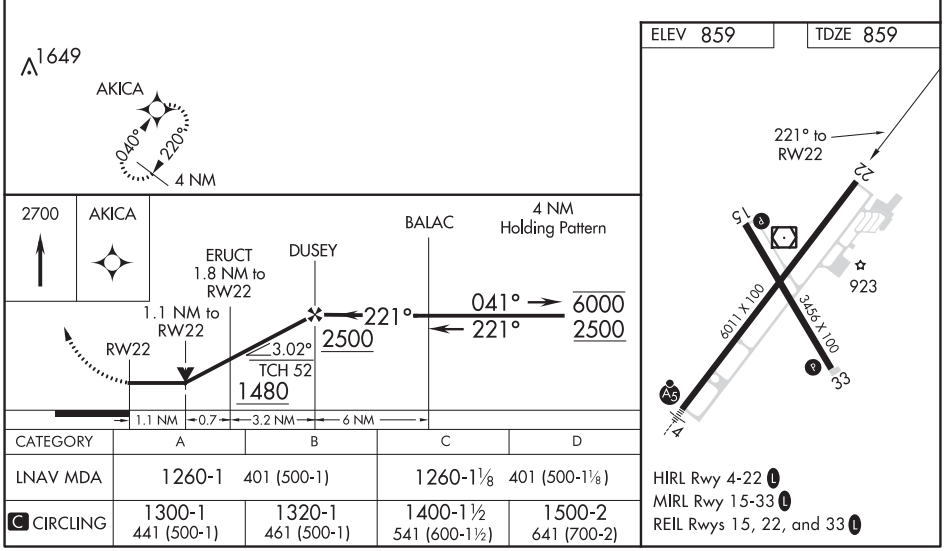
RNP APCH.

Rwy 22 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 direct AKICA and hold.

AWOS-3	GRISSOM APP CON ★	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1260-1 401 (500-1)		1260-1⅛ 401 (500-1⅛)	
C CIRCLING	1300-1 441 (500-1)	1320-1 461 (500-1)	1400-1½ 541 (600-1½)	1500-2 641 (700-2)

HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, 22, and 33 L

EC-2, 25 FEB 2021 to 22 APR 2021

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MARION, INDIANA | AL-5064 (FAA) | 21056

APP CRS	Rwy ldg	3456
333°	TDZE	859
	Apt Elev	859

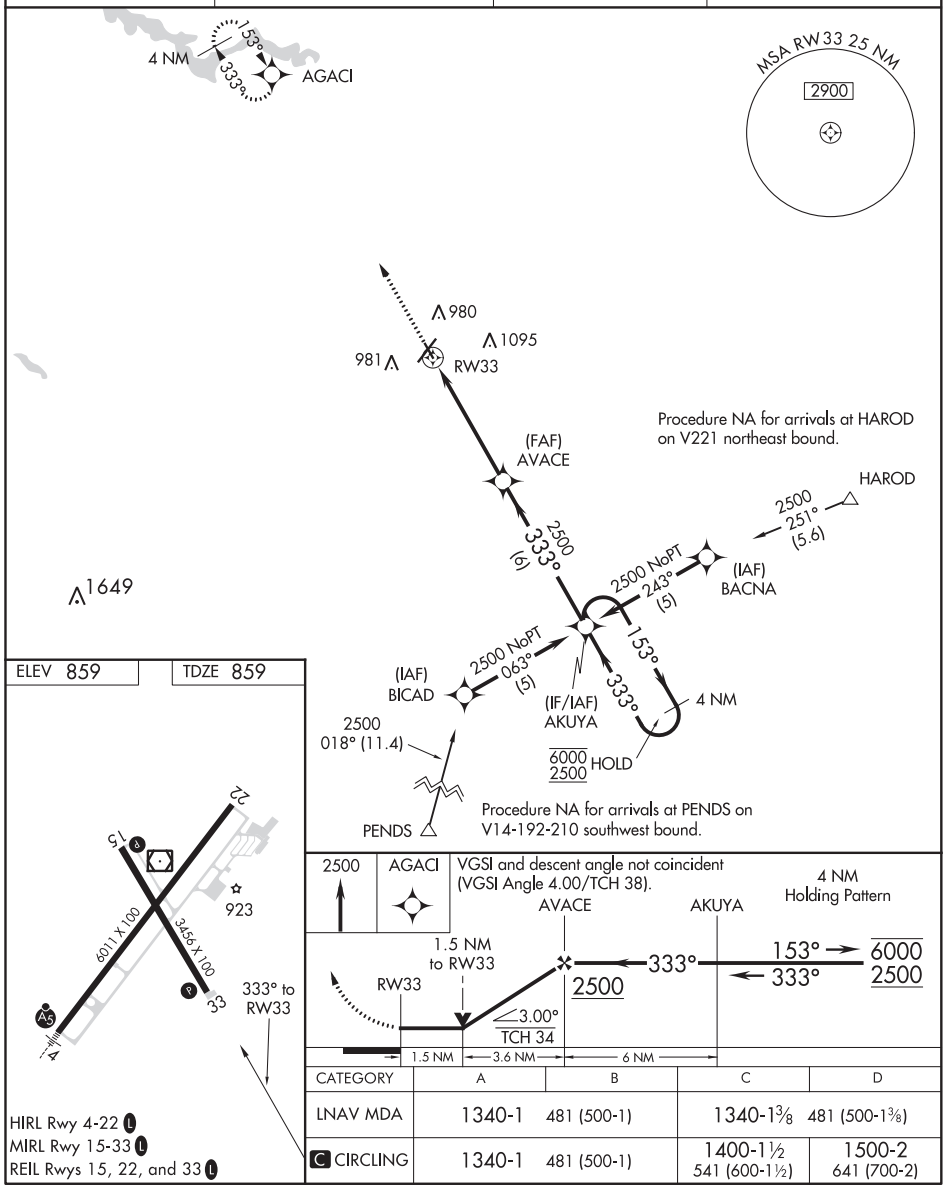
RNAV (GPS) RWY 33
MARION MUNI - MCKINNEY FIELD (MZZ)

RNP APCH.

Rwy 33 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2500 direct AGACI and hold.

AWOS-3	GRISSOM APP CON ★	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1340-1 481 (500-1)		1340-1⅜ 481 (500-1⅜)	
C CIRCLING	1340-1 481 (500-1)		1400-1½ 541 (600-1½)	1500-2 641 (700-2)

HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, 22, and 33 L

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VOR/DME MZZ 108.6 Chan 23	APP CRS 143°	Rwy ldg 3456 TDZE 858 Apt Elev 859

VOR RWY 15

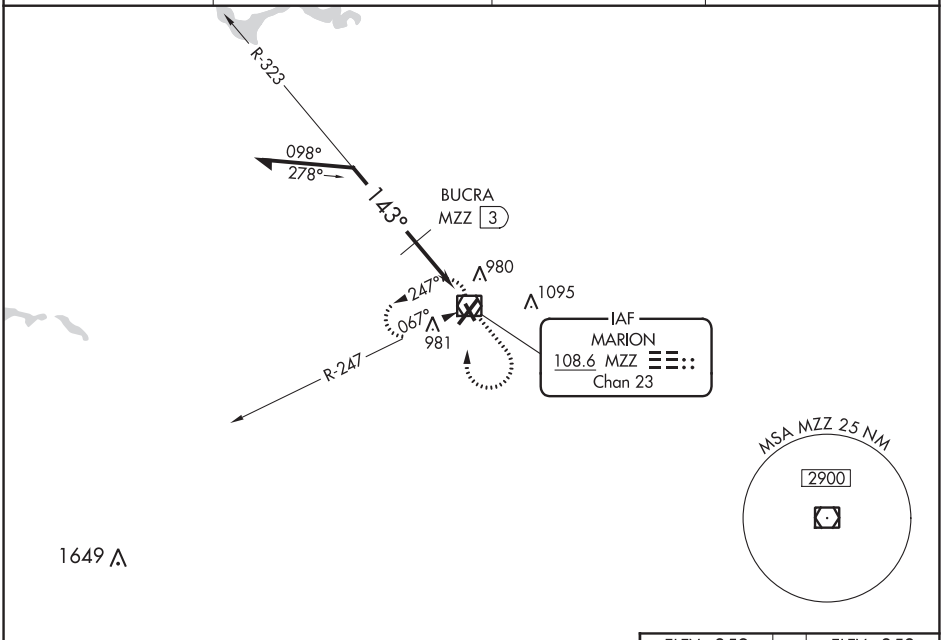
MARION MUNI - MCKINNEY FIELD (MZZ)

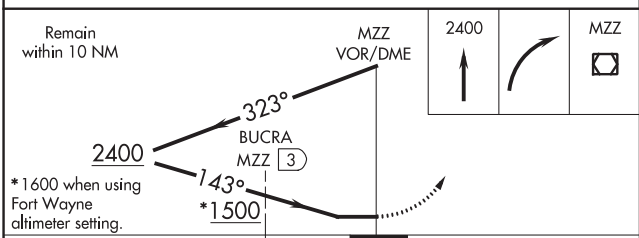
T NA

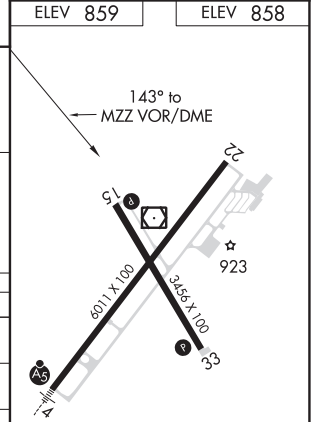
When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 100 feet, increase S-15 Cat B/C/D visibility ¼ SM, increase Circling Cat B/C/D visibility ½ SM; BUCRA fix minimums: increase S-15 Cat C/D visibility ⅜ SM, increase Circling Cat C/D visibility ½ SM. Rwy 15 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2400 then right turn direct MZZ VOR/DME and hold.

AWOS-3	GRISSOM APP CON ★	CLNC DEL	UNICOM
108.6	121.05 338.275	120.0	122.7 (CTAF) L







CATEGORY	A	B	C	D
S-15	1500-1 642 (700-1)		1500-1¾ 642 (700-1¾)	1500-2 642 (700-2)
C CIRCLING	1500-1 641 (700-1)		1500-1⅞ 641 (700-1⅞)	1500-2 641 (700-2)
BUCRA FIX MINIMUMS				
S-15	1240-1 382 (400-1)			1240-1¼ 382 (400-1¼)
C CIRCLING	1300-1 441 (500-1)	1320-1 461 (500-1)	1400-1½ 541 (600-1½)	1500-2 641 (700-2)

HIRL Rwy 4-22 L
MIRL Rwy 15-33 L
REIL Rwys 15, 22, and 33 L

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EC-2, 25 FEB 2021 to 22 APR 2021

MARION, OHIO | AL-5352 (FAA) | 20366

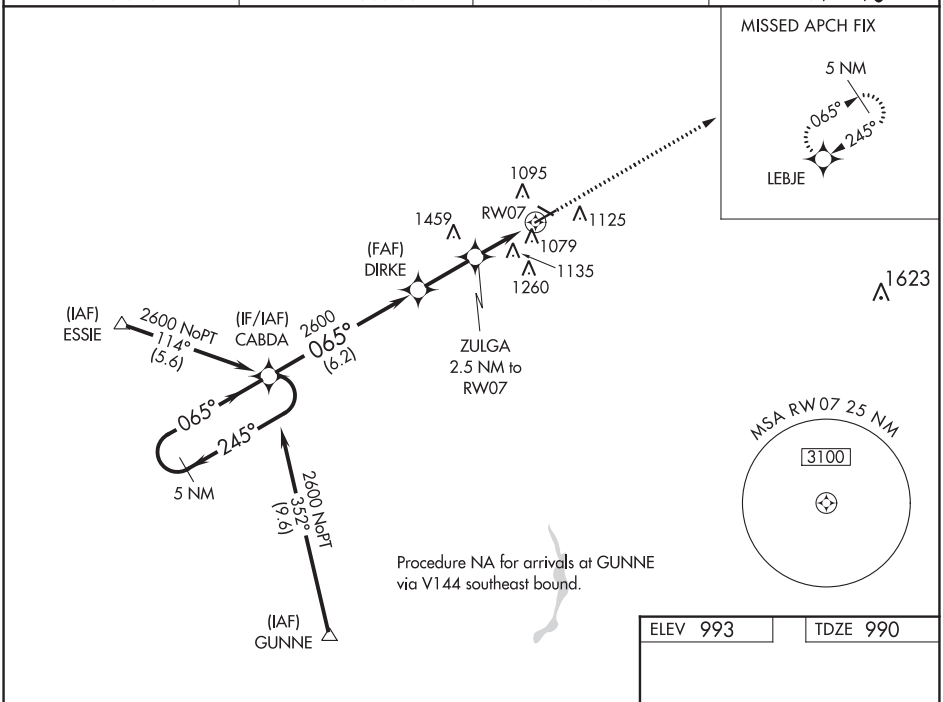
WAAS CH 93604 W07A	APP CRS 065°	Rwy ldg 5000 TDZE 990 Apt Elev 993

RNAV (GPS) RWY 7
MARION MUNI (MNN)

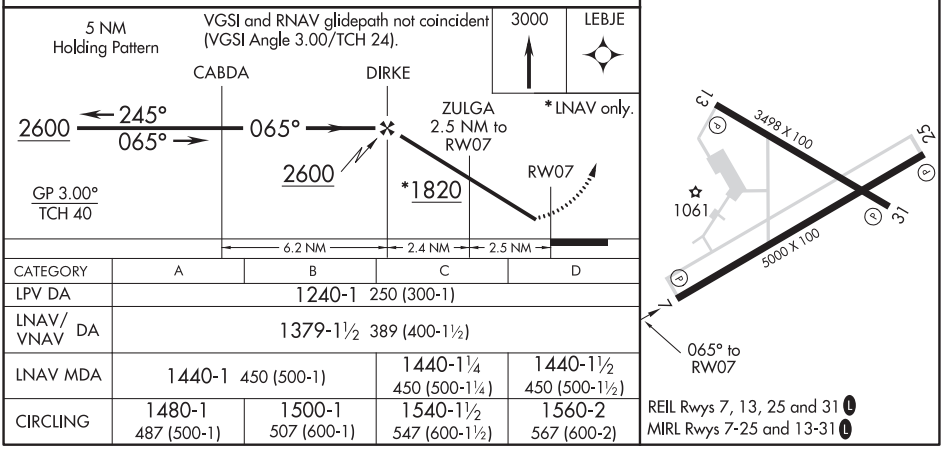
If local altimeter setting not received, use Ohio State University altimeter setting and increase LPV DA 87 feet, LNAV/VNAV DA 195 feet, and all MDAS 100 feet. Baro-VNAV NA when using Ohio State University altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 46°C (114°F). Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct LEBJE and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
119.975	124.2 360.65	126.8	122.8 (CTAF) L



ELEV 993 | TDZE 990



CATEGORY	A	B	C	D
LPV DA	1240-1 250 (300-1)			
LNAV/VNAV DA	1379-1½ 389 (400-1½)			
LNAV MDA	1440-1 450 (500-1)		1440-1¼ 450 (500-1¼)	1440-1½ 450 (500-1½)
CIRCLING	1480-1 487 (500-1)	1500-1 507 (600-1)	1540-1½ 547 (600-1½)	1560-2 567 (600-2)

REIL Rwys 7, 13, 25 and 31 L
MIRL Rwys 7-25 and 13-31 L

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APP CRS	Rwy ldg	3498
125°	TDZE	991
	Apt Elev	993

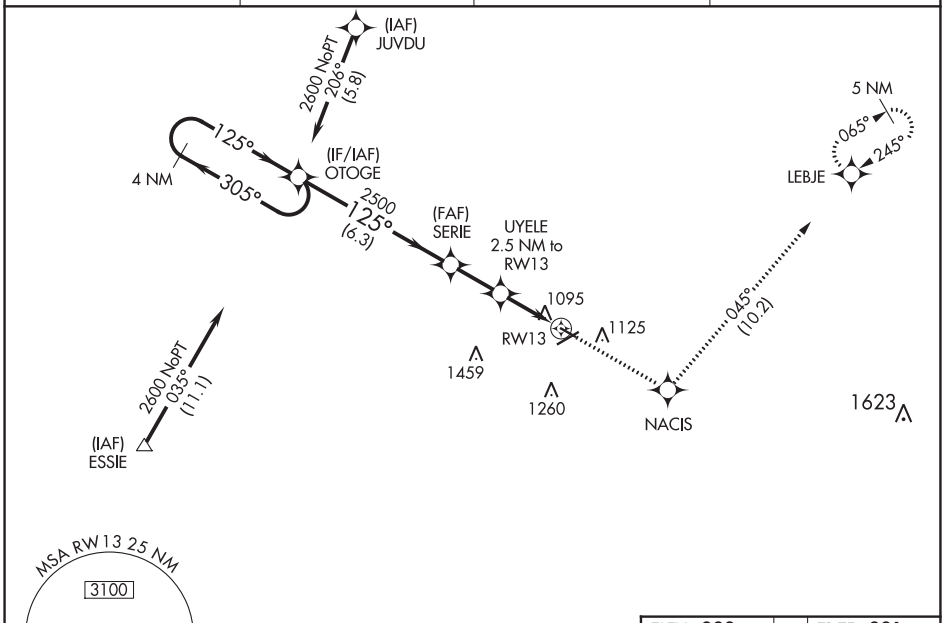
RNAV (GPS) RWY 13
MARION MUNI (MNN)

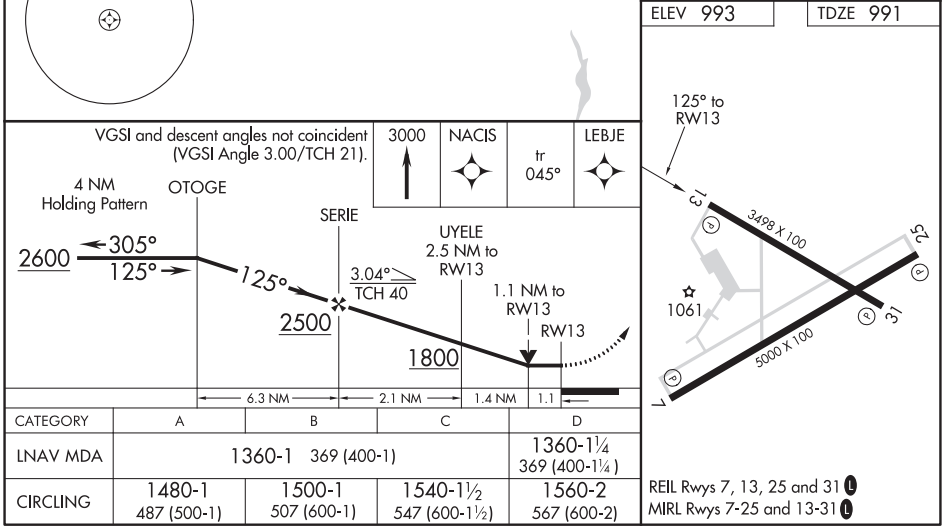
RNP APCH.

Rwy 13 helicopter visibility reduction below ¾ SM NA. VDP NA when using Ohio State University altimeter setting. When local altimeter setting not received, use Ohio State University altimeter setting: increase all MDAs 100 feet; increase LNAV Cats C/D and Circling Cat C visibility ⅜ SM.

MISSED APPROACH: Climb to 3000 direct NACIS and on track 045° to LEBJE and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
119.975	124.2 360.65	126.8	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1360-1 369 (400-1)			1360-1¼ 369 (400-1¼)
CIRCLING	1480-1 487 (500-1)	1500-1 507 (600-1)	1540-1½ 547 (600-1½)	1560-2 567 (600-2)

REIL Rwys 7, 13, 25 and 31 L
MIRL Rwys 7-25 and 13-31 L

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MARION, OHIO | AL-5352 (FAA) | 19227

WAAS CH 62904 W25A	APP CRS 245°	Rwy ldg 5000 TDZE 993 Apt Elev 993

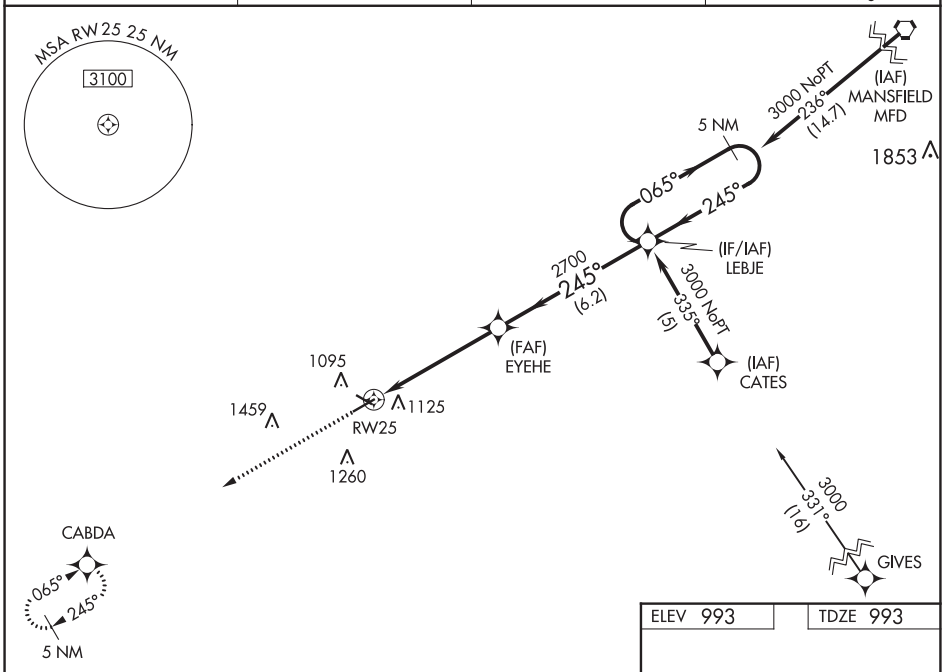
RNAV (GPS) RWY 25
MARION MUNI (MNN)

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Ohio State University altimeter setting. Rwy 25 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ohio State University altimeter setting and increase all DAs 87 feet and all MDAs 100 feet.

MISSED APPROACH: Climb to 2600 direct CABDA and hold.

ASOS	CLEVELAND APP CON *	CLNC DEL	UNICOM
119.975	124.2 360.65	126.8	122.8 (CTAF) L

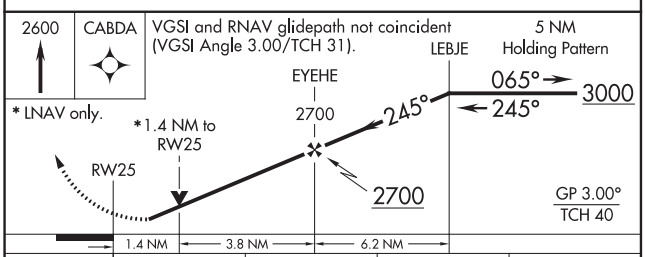


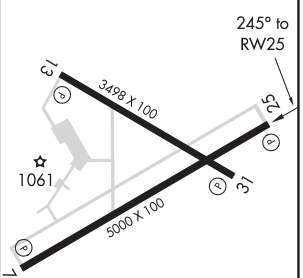
ELEV 993	TDZE 993

2600 | CABDA

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 31).

* LNAV only.





CATEGORY	A	B	C	D
LPV DA	1334-1¼ 341 (400-1¼)			
LNAV/VNAV DA	1443-1½ 450 (500-1½)			
LNAV MDA	1460-1 467 (500-1)		1460-1⅝ 467 (500-1⅝)	
CIRCLING	1480-1 487 (500-1)	1500-1 507 (600-1)	1540-1¾ 547 (600-1¾)	1560-2 567 (600-2)

REIL Rwys 7, 13, 25 and 31 L
MIRL Rwys 7-25 and 13-31 L

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VOR BUD	APP CRS	Rwy ldg	N/A
109.8	261°	TDZE	N/A
		Apt Elev	993

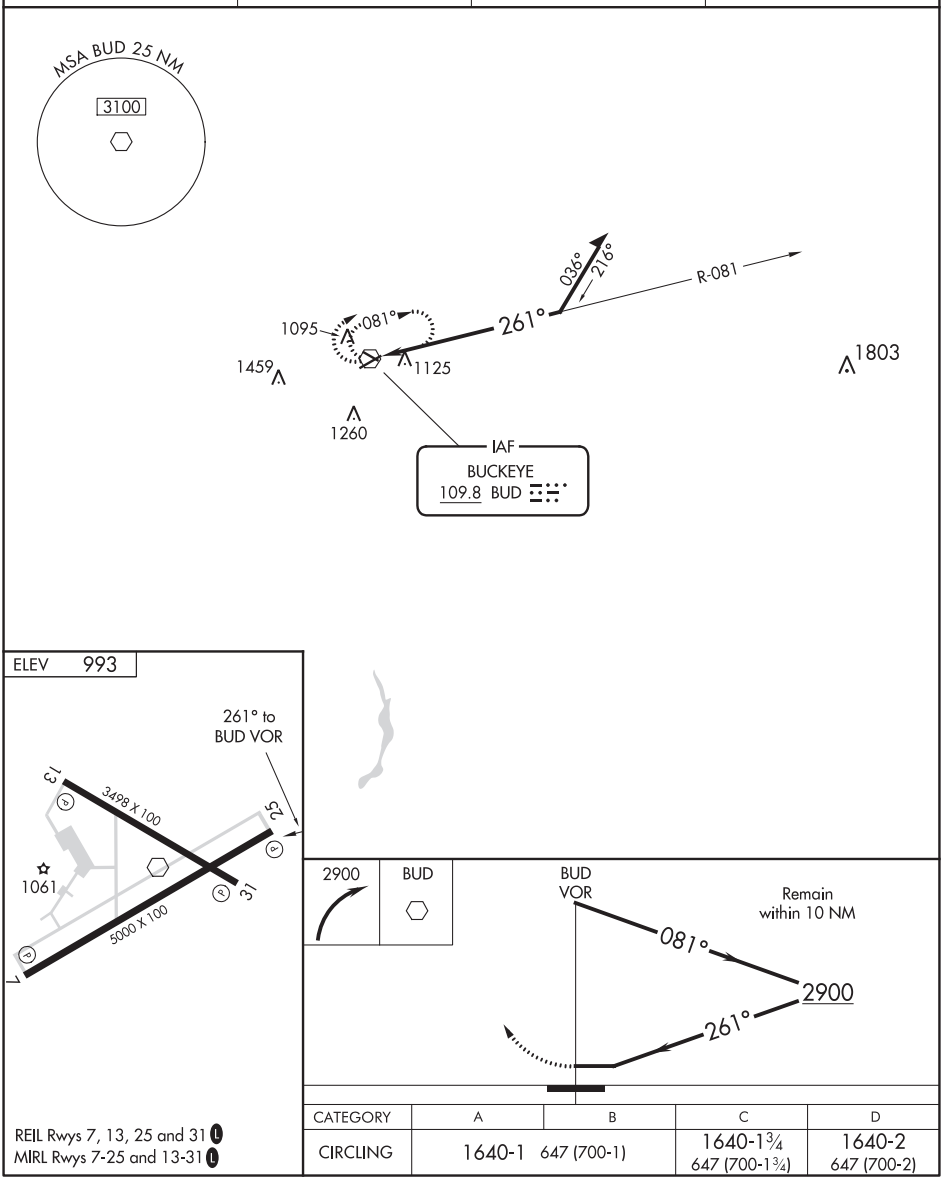
VOR-A
MARION MUNI (MNN)

RADAR required for procedure entry.

When local altimeter setting not received, use Ohio State University altimeter setting: increase all MDAs 100 feet and visibility Cats C and D ½ SM.

MISSED APPROACH: Climbing right turn to 2900 in BUD VOR holding pattern.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
119.975	124.2 360.65	126.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1640-1	647 (700-1)	1640-1¾ 647 (700-1¾)	1640-2 647 (700-2)

REIL Rwys 7, 13, 25 and 31 L
MIRL Rwys 7-25 and 13-31 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

MARYSVILLE, OHIO

AL-6380 (FAA)

20086

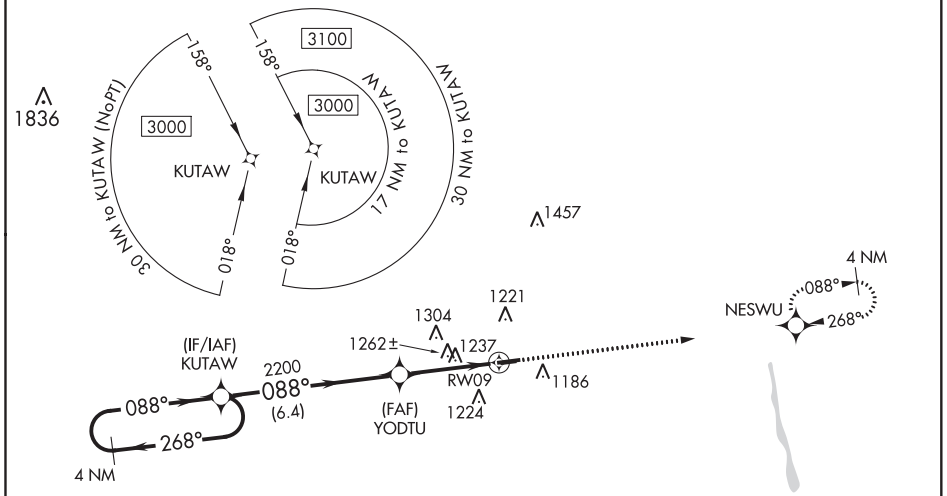
RNAV (GPS) RWY 9
UNION COUNTY (MRT)

WAAS CH 72827 W09A	APP CRS 088°	Rwy ldg 4218 TDZE 1021 Apt Elev 1021

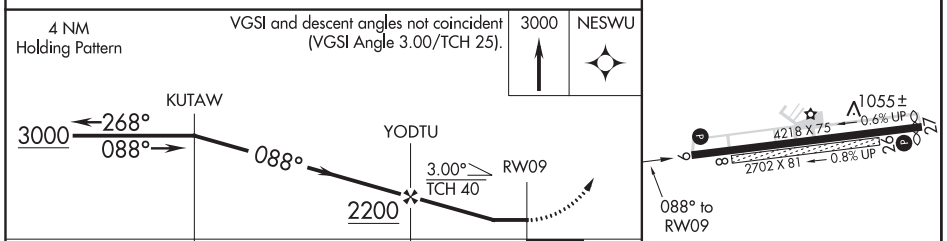
Night landing: Rwy 27 NA. Helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all MDA 100 feet, LP Cats C and D visibility to 1⅝ miles, LNAV Cats C and D and Circling Cat C visibility to 1¾ miles.

MISSED APPROACH: Climb to 3000 direct NESWU and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
119.275	125.95 317.775	122.8 (CTAF) L



ELEV 1021 | TDZE 1021



CATEGORY	A	B	C	D
LP MDA	1500-1 479 (500-1)		1500-1⅜ 479 (500-1⅜)	
LNAV MDA	1520-1 499 (500-1)		1520-1⅜ 499 (500-1⅜)	
CIRCLING	1520-1 499 (500-1)	1540-1 519 (600-1)	1540-1½ 519 (600-1½)	1580-2 559 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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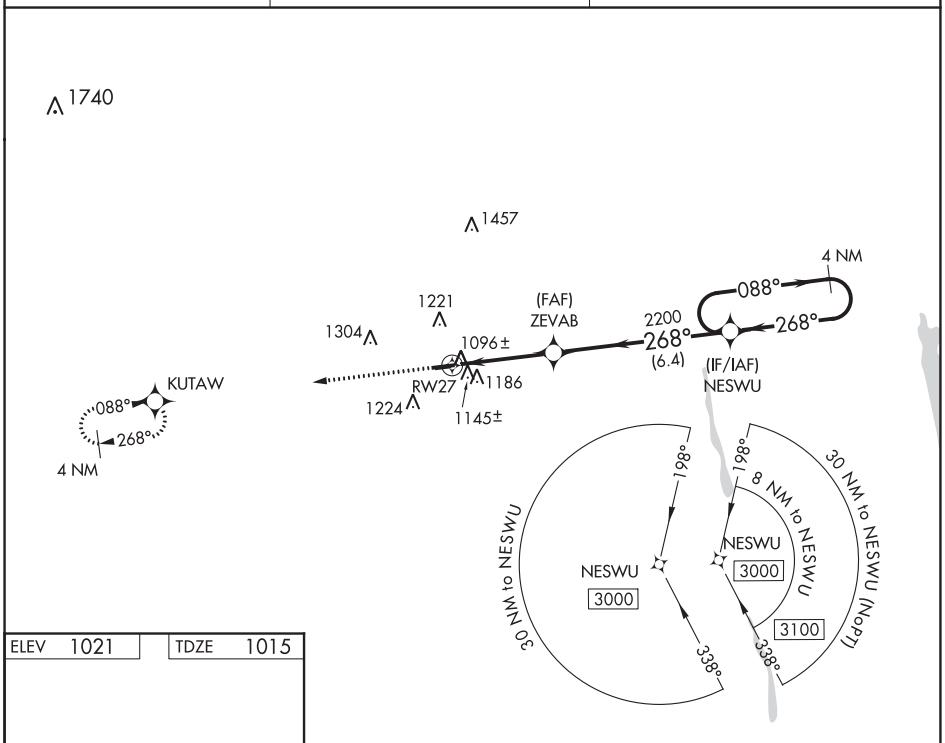
WAAS CH 50327 W27A	APP CRS 268°	Rwy ldg 4095 TDZE 1015 Apt Elev 1021

RNAV (GPS) RWY 27
UNION COUNTY (MRT)

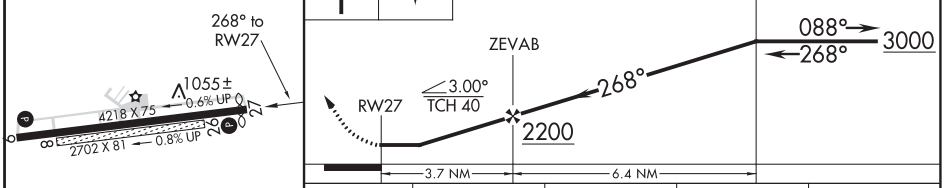
Night landing: Rwy 27 NA. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use John Glenn Columbus Intl altimeter setting and increase all MDA 100 feet, LP and LNAV Cat C and D visibility to 1⅜ miles and Circling Cat C visibility to 1¾ miles.

MISSED APPROACH: Climb to 3000 direct KUTAW and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
119.275	125.95 317.775	122.8 (CTAF) L



ELEV 1021 | TDZE 1015



CATEGORY	A	B	C	D
LP MDA	1360-1 345 (400-1)			
LNAV MDA	1400-1 385 (400-1)		1400-1⅛ 385 (400-1⅛)	
CIRCLING	1520-1 499 (500-1)	1540-1 519 (600-1)	1540-1½ 519 (600-1½)	1580-2 559 (600-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

MEDINA, OHIO | AL-5763 (FAA) | 20366

RNAV (GPS) RWY 9
MEDINA MUNI (1G5)

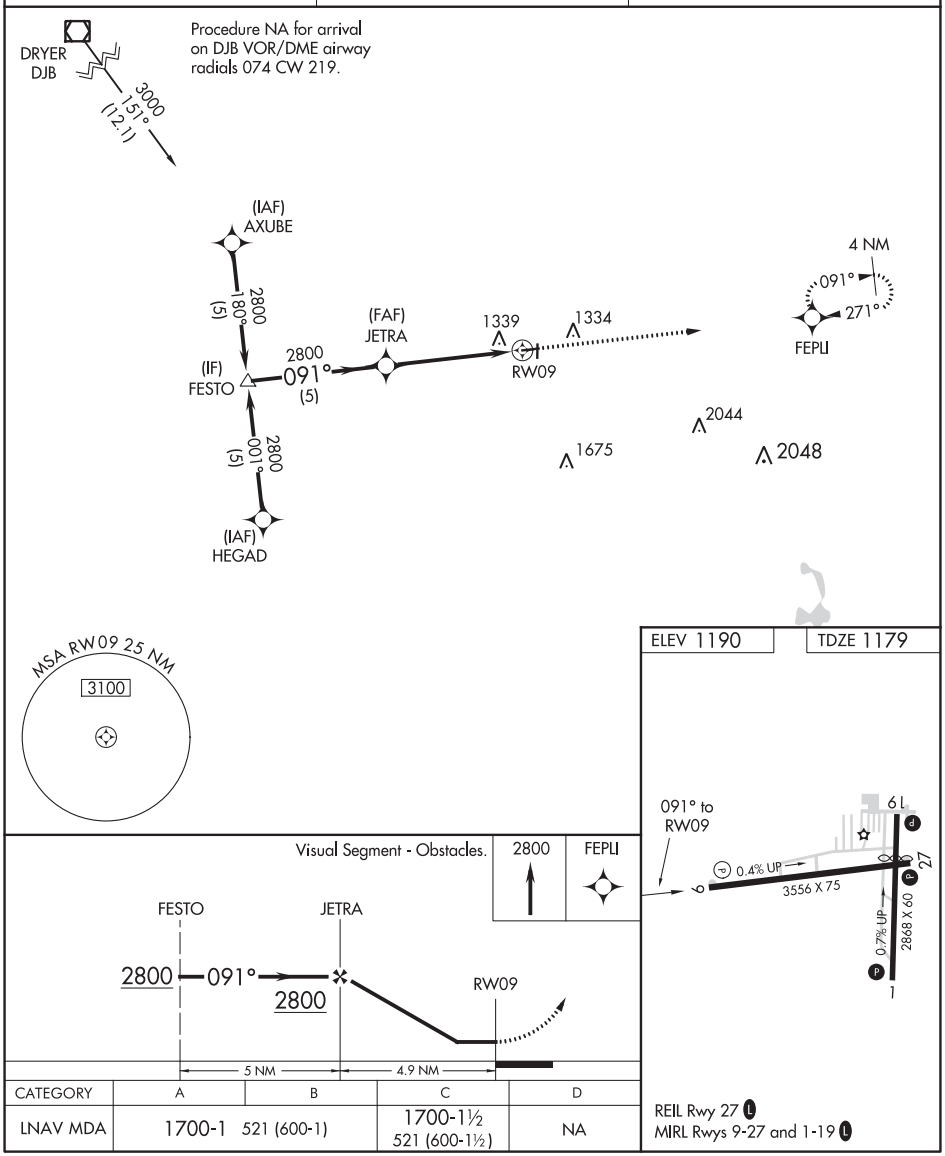
APP CRS	Rwy ldg	3556
091°	TDZE	1179
	Apt Elev	1190

RNP APCH.

Procedure NA at night.
NA
Rwy 9 helicopter visibility reduction below 1 SM NA.
Use Cleveland-Hopkins Intl altimeter setting.

MISSED APPROACH: Climb to 2800 direct FEPLI and hold.

CLE ASOS	CLEVELAND APP CON	UNICOM
127.85	125.35 346.325	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1700-1 521 (600-1)		1700-1½ 521 (600-1½)	NA

REIL Rwy 27 L
MIRL Rwys 9-27 and 1-19 L

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EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3556
271°	TDZE	1183
	Apt Elev	1190

RNAV (GPS) RWY 27
MEDINA MUNI (1G5)

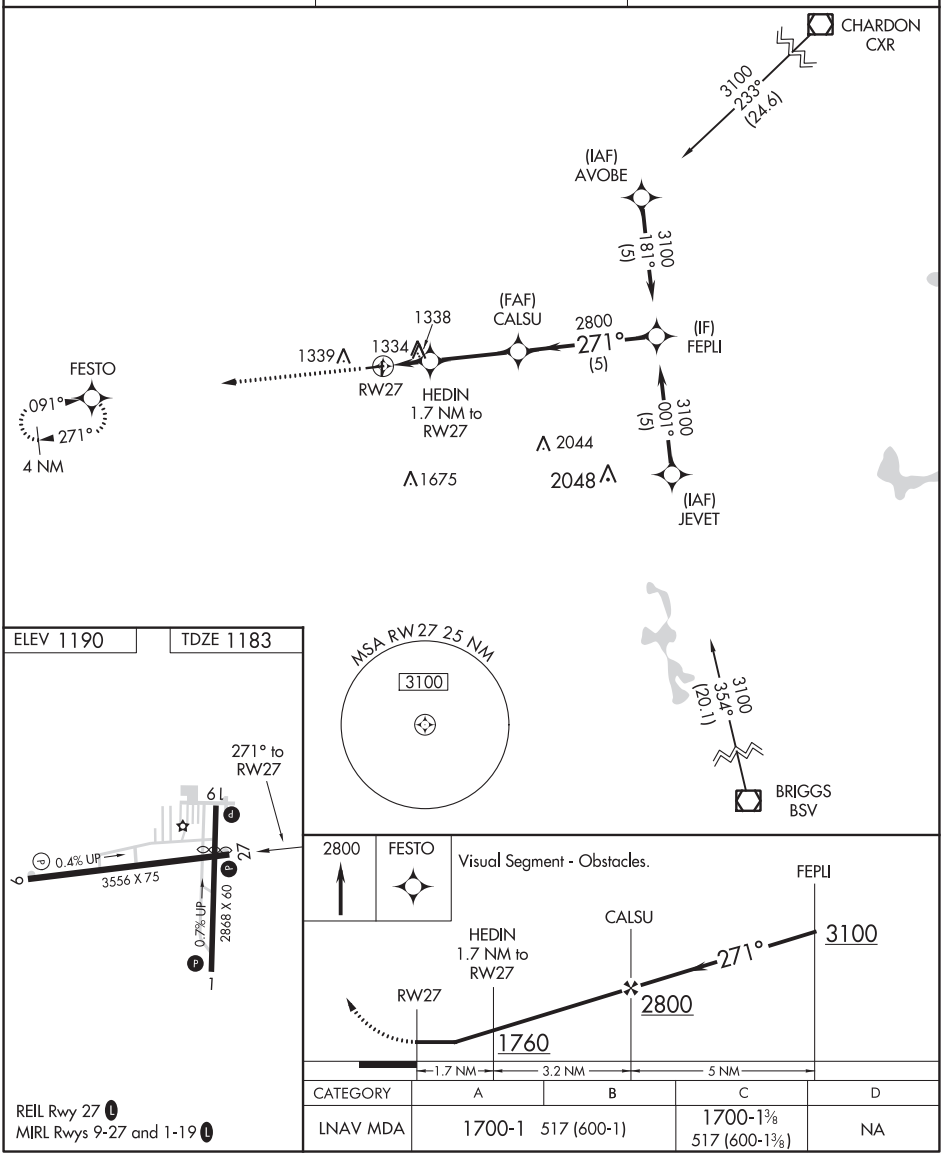
RNP APCH.

NA

Rwy 27 helicopter visibility reduction below ¾ SM NA.
Use Cleveland-Hopkins Intl altimeter setting.

MISSED APPROACH: Climb to 2800 direct FESTO and hold.

CLE ASOS	CLEVELAND APP CON	UNICOM
127.85	125.35 346.325	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1700-1	517 (600-1)	1700-1⅜ 517 (600-1⅜)	NA

REIL Rwy 27 L
MIRL Rwys 9-27 and 1-19 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

MEDINA, OHIO | AL-5763 (FAA) | 20366

VOR RWY 27
MEDINA MUNI (1G5)

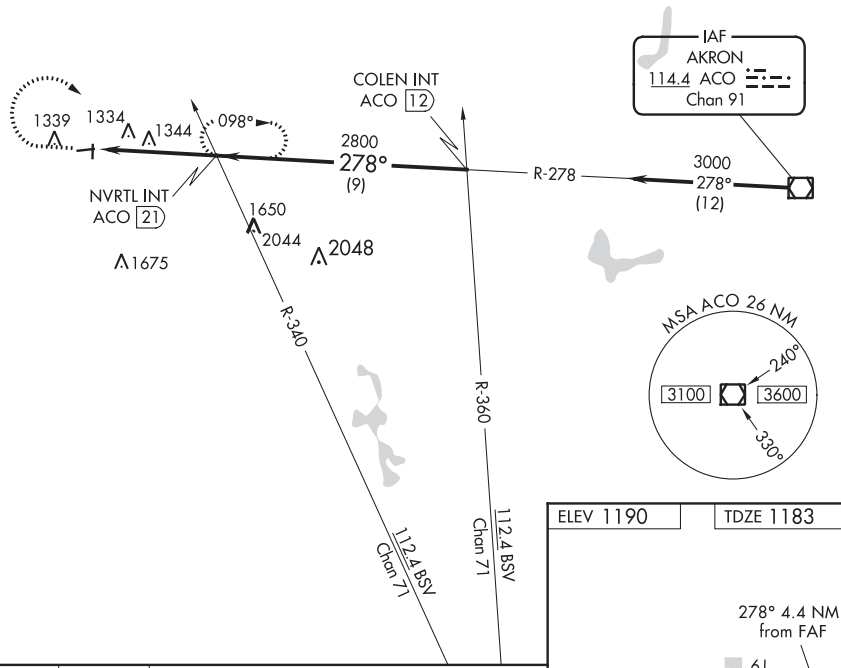
VOR/DME ACO	APP CRS	Rwy ldg	3556
114.4	278°	TDZE	1183
Chan 91		Apt Elev	1190

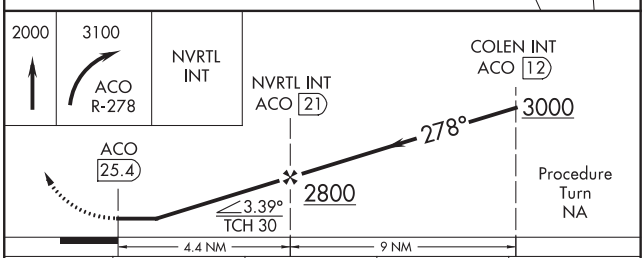
T NA — Use Cleveland-Hopkins Intl altimeter setting. Circling Rwy 1, 9, 19 NA at night. Rwy 27 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 then climbing right turn to 3100 on ACO R-278 to NVRTL Int/21 DME and hold, continue climb-in-hold to 3100.

CLE ASOS	CLEVELAND APP CON	UNICOM
127.85	125.35 346.325	123.0 (CTAF) L

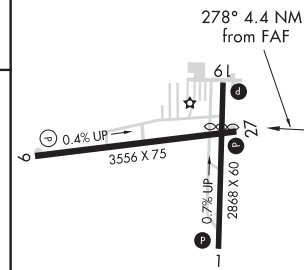
Procedure NA for arrivals on ACO VOR/DME airway radials 237 CW 323.





CATEGORY	A	B	C	D
S-27	1760-1 577 (600-1)	1760-1¼ 577 (600-1¼)	1760-1½ 577 (600-1½)	NA
CIRCLING	1800-1 610 (700-1)	1800-1¼ 610 (700-1¼)	1800-1¾ 610 (700-1¾)	NA

ELEV 1190 | TDZE 1183



REIL Rwy 27 L
MIRL Rwy 9-27, 1-19 L

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

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APP CRS	Rwy ldg	3916
203°	TDZE	653
	Apt Elev	655

RNAV (GPS) RWY 20

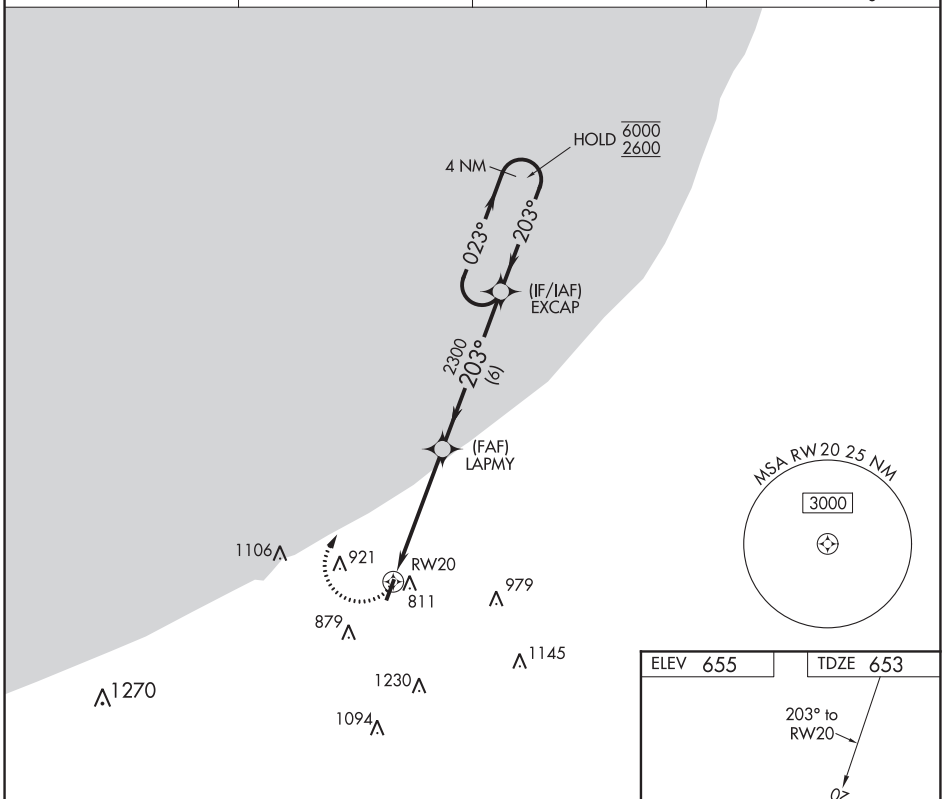
MICHIGAN CITY MUNI-PHILLIPS FIELD (MGC)

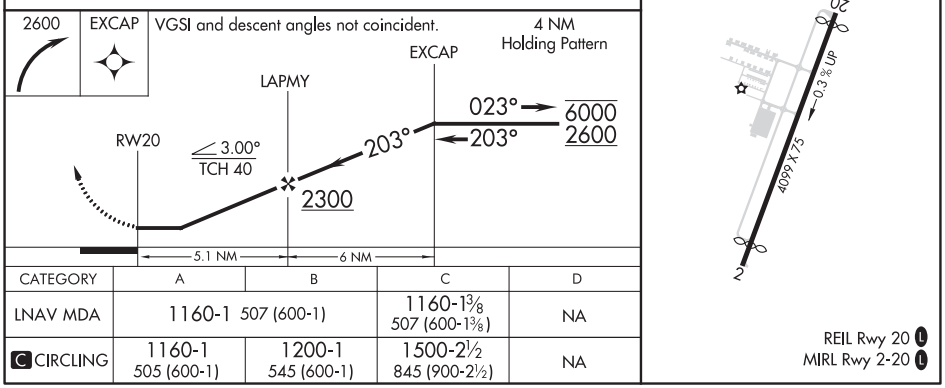
RNP APCH.

Rwy 20 helicopter visibility reduction below 1 SM NA.
Circling Rwy 2 NA at night.

MISSED APPROACH: Climbing right turn to 2600 direct EXCAP and hold.

AWOS-3	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
128.450	118.55 257.8	118.625	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1160-1 507 (600-1)		1160-1⅜ 507 (600-1⅜)	NA
C CIRCLING	1160-1 505 (600-1)	1200-1 545 (600-1)	1500-2½ 845 (900-2½)	NA

REIL Rwy 20 L
MIRL Rwy 2-20 L

EC-2, 25 FEB 2021 to 22 APR 2021

MIDDLEFIELD, OHIO | AL-6254 (FAA) | 20254

WAAS CH 97633 W11A	APP CRS 109°	Rwy ldg 3321 TDZE 1172 Apt Elev 1174

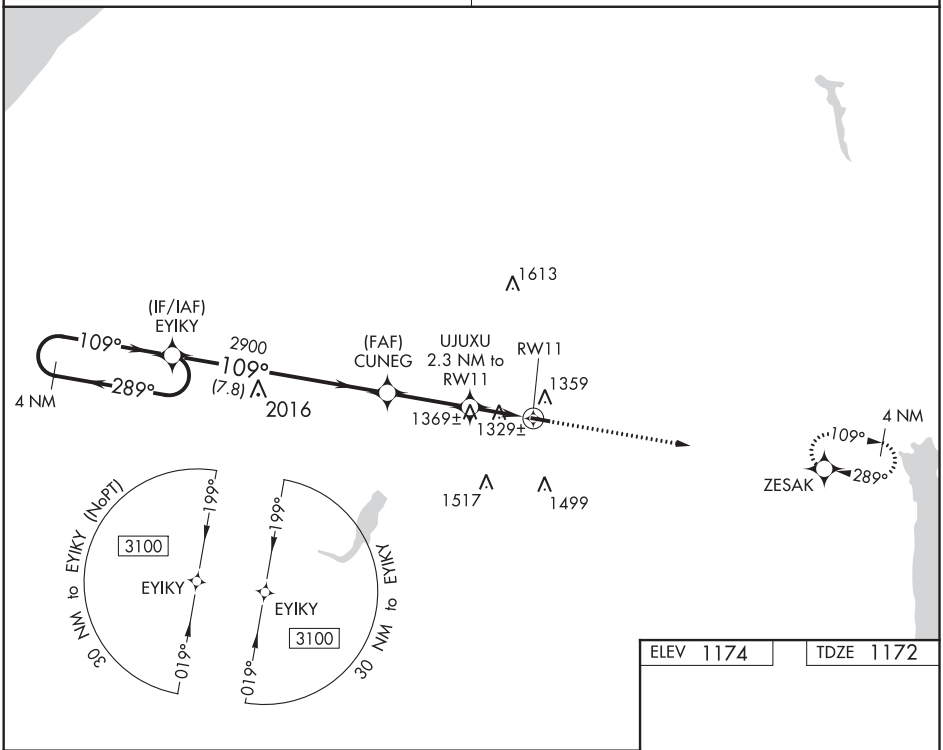
RNAV (GPS) RWY 11
GEAUGA COUNTY (7G8)

T A NA

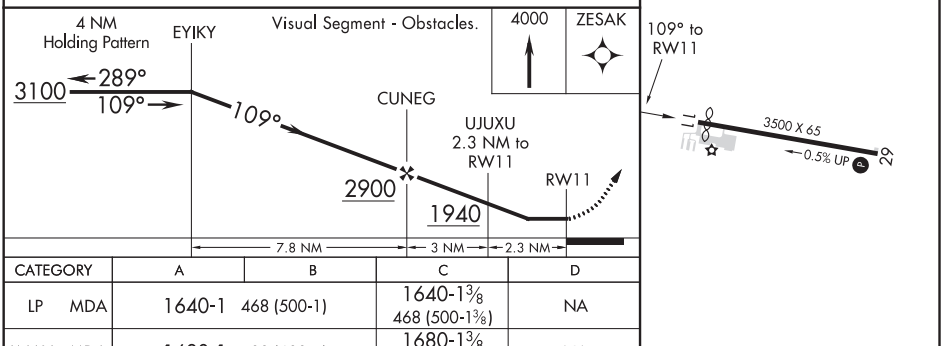
DME/DME RNP-0.3 NA. Use Youngstown-Warren altimeter setting; when not received use Cuyahoga County altimeter setting and increase all MDA 40 feet, and increase LNAV and Circling Cat C visibility ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM not authorized.

MISSED APPROACH: Climb to 4000 direct ZESAK and hold.

CLEVELAND APP CON	UNICOM
125.35 346.325	123.0 (CTAF) L



ELEV 1174 | TDZE 1172



CATEGORY	A	B	C	D
LP MDA	1640-1 468 (500-1)		1640-1⅜ 468 (500-1⅜)	NA
LNAV MDA	1680-1 508 (600-1)		1680-1⅜ 508 (600-1⅜)	NA
C CIRCLING	1760-1 586 (600-1)		1900-2 726 (800-2)	NA

REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 61233 W29A	APP CRS 289°	Rwy ldg 3500 TDZE 1167 Apt Elev 1174

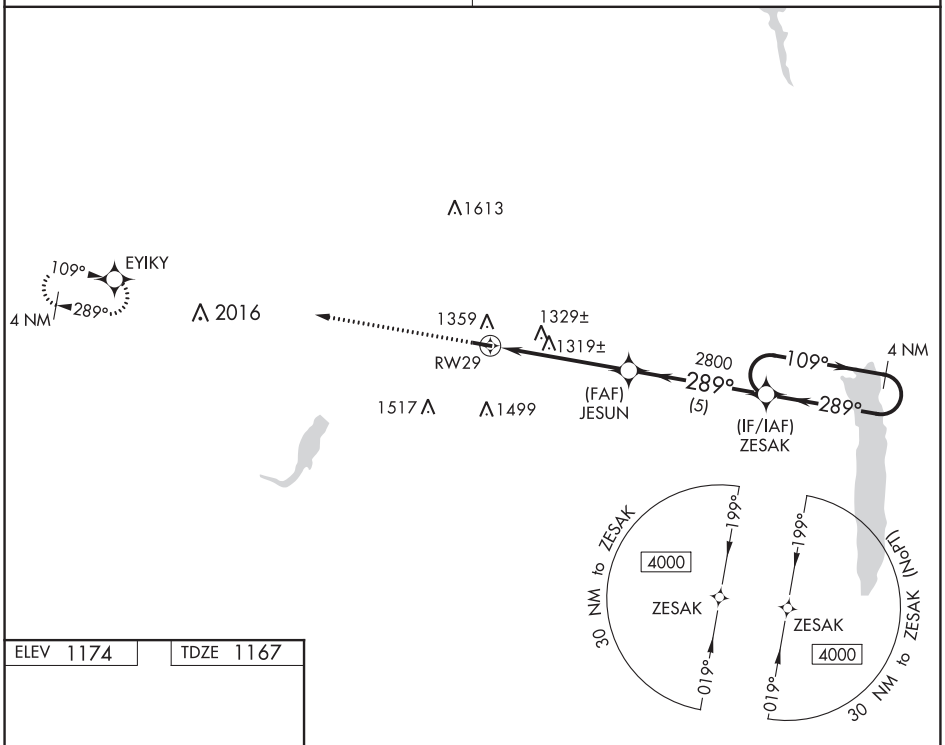
RNAV (GPS) RWY 29
GEAUGA COUNTY (7G8)

T A NA

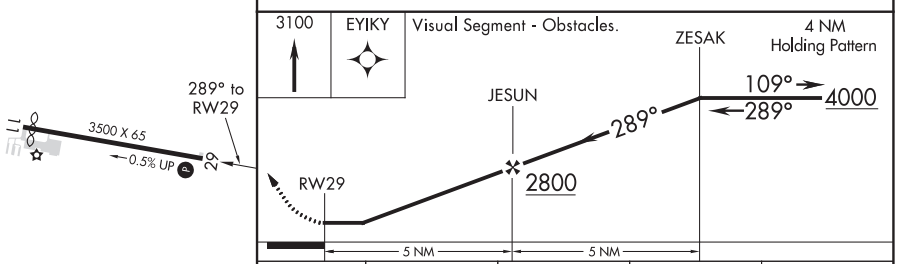
DME/DME RNP-0.3 NA. Use Youngstown-Warren altimeter setting; when not received use Cuyahoga County altimeter setting and increase all MDA 40 feet and increase LNAV Cat C visibility ⅛ mile and Circling Cat C visibility ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3100 direct EYIKY and hold.

CLEVELAND APP CON	UNICOM
125.35 346.325	123.0 (CTAF) L



ELEV 1174 TDZE 1167



CATEGORY	A	B	C	D
LP MDA	1620-1 453 (500-1)		1620-1⅜ 453 (500-1⅜)	NA
LNAV MDA	1640-1 473 (500-1)		1640-1⅜ 473 (500-1⅜)	NA
C CIRCLING	1760-1 586 (600-1)		1900-2 726 (800-2)	NA

REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

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EC-2, 25 FEB 2021 to 22 APR 2021

MIDDLETOWN, OHIO AL-724 (FAA) 20254

RNAV (GPS) RWY 5
MIDDLETOWN RGNL/HOOK FIELD (MWO)

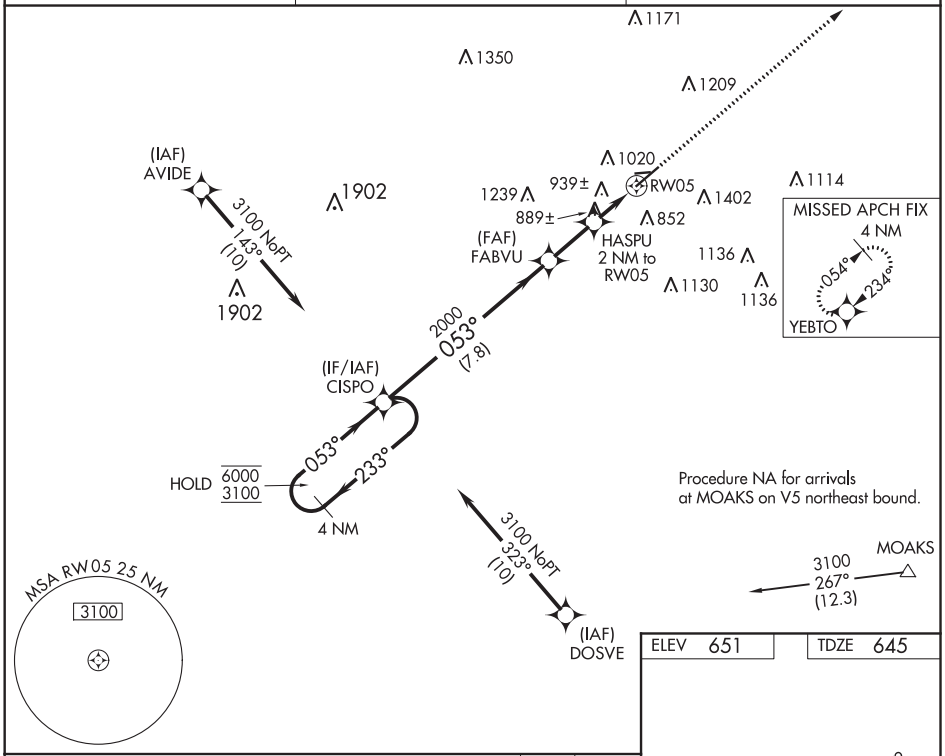
WAAS CH 45829 W05A	APP CRS 053°	Rwy ldg 6100 TDZE 645 Apt Elev 651

RNP APCH.

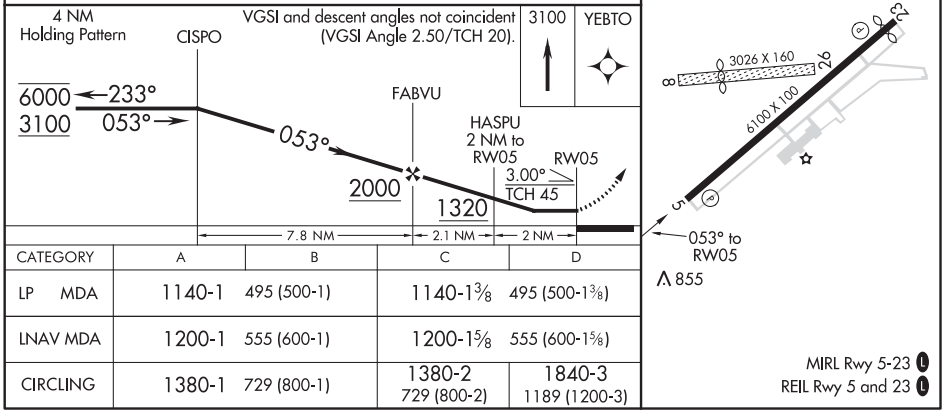
Circling NA to Rwys 8 and 26. Rwy 5 Helicopter visibility reduction below 1 SM NA. Straight-in Rwy 5 NA at night, Circling Rwy 5 NA at night.

MISSED APPROACH: Climb to 3100 direct YEBTO and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
120.025	118.85 269.275	123.0 (CTAF) L



ELEV 651 TDZE 645



CATEGORY	A	B	C	D
LP MDA	1140-1 495 (500-1)		1140-1 3/8 495 (500-1 3/8)	
LNAV MDA	1200-1 555 (600-1)		1200-1 5/8 555 (600-1 5/8)	
CIRCLING	1380-1 729 (800-1)		1380-2 729 (800-2)	1840-3 1189 (1200-3)

MIRL Rwy 5-23 L
REIL Rwy 5 and 23 L

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WAAS CH 90429 W23A	APP CRS 233°	Rwy ldg 5801 TDZE 650 Apt Elev 651

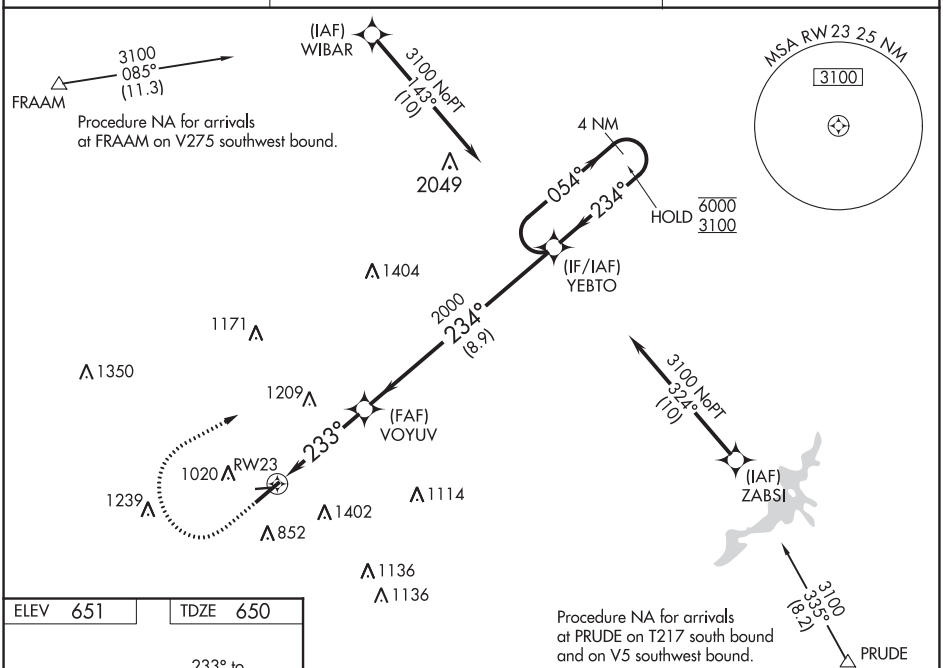
RNAV (GPS) RWY 23
MIDDLETOWN RGNL/HOOK FIELD (MWO)

RNP APCH.

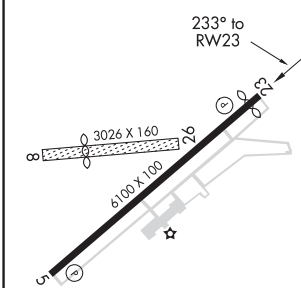
Circling NA to Rwys 8 and 26. Circling Rwy 5 NA at night.
Rwy 23 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 1800 then climbing right turn to 3100 direct YEBTO and hold.

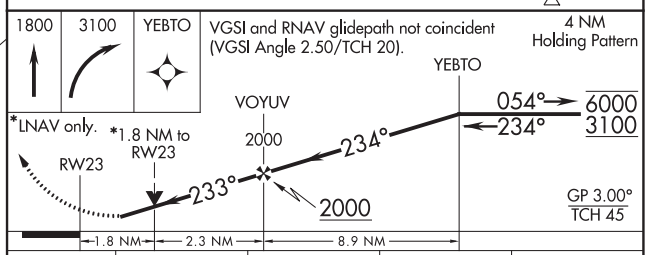
AWOS-3	COLUMBUS APP CON	UNICOM
120.025	118.85 269.275	123.0 (CTAF) L



ELEV 651 TDZE 650



MIRL Rwy 5-23 L
REIL Rwy 5 and 23 L



CATEGORY	A	B	C	D
LPV DA	986-1⅛ 336 (400-1⅛)			
LNAV/VNAV DA	1083-1½ 433 (500-1½)			
LNAV MDA	1140-1 490 (500-1)		1140-1⅜ 490 (500-1⅜)	
CIRCLING	1380-1 729 (800-1)		1380-2 729 (800-2)	1840-3 1189 (1200-3)

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MIDDLETOWN, OHIO | AL-724 (FAA) | 20254

LOC RWY 23

MIDDLETOWN RGNL/HOOK FIELD (MWO)

LOC I-MWO	APP CRS	Rwy ldg	5801
111.1	233°	TDZE	650
		Apt Elev	651

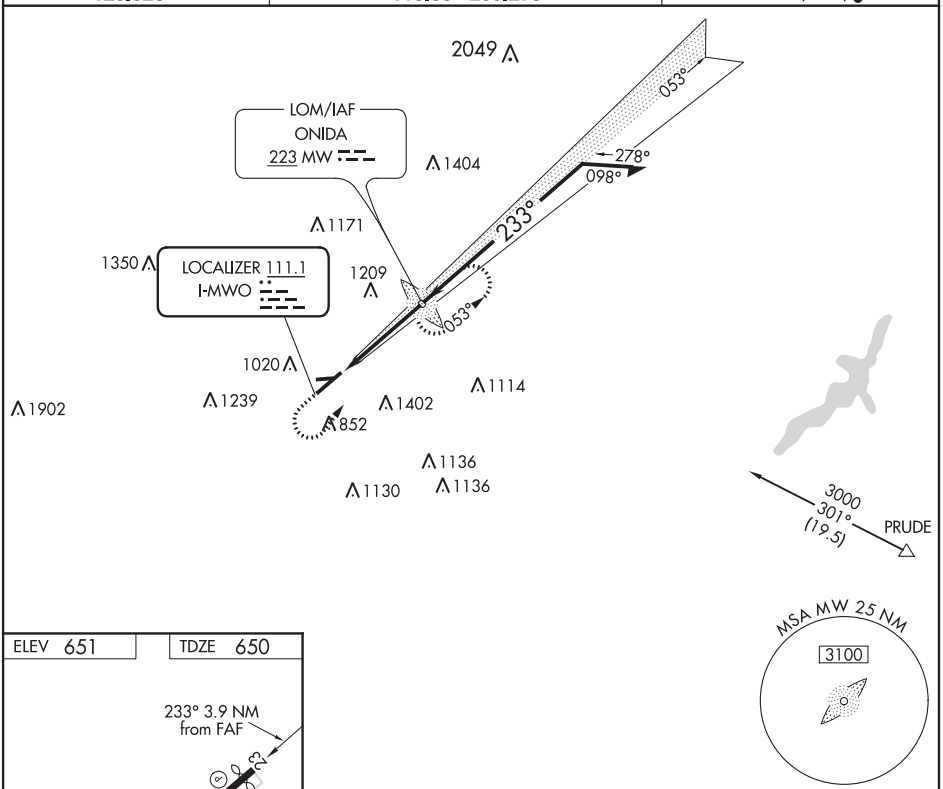
ADF required.

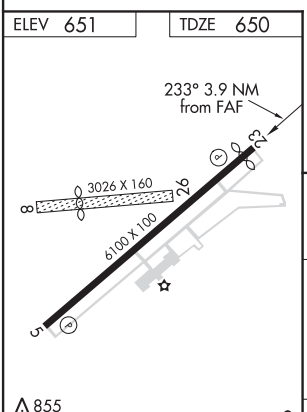
Circling Rwy 5 NA at night. Circling NA to Rwys 8 and 26. Rwy 23 helicopter visibility reduction below ¾ SM NA. When local altimeter not received, use Dayton-Wright Brothers altimeter setting; increase all MDAs 80 feet and S-23 visibility Cats C and D ¼ SM; increase Circling visibility Cat C ¼ SM.

NA

MISSED APPROACH: Climb to 2600 then climbing left turn to 3000 direct MW LOM and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
120.025	118.85 269.275	123.0 (CTAF)

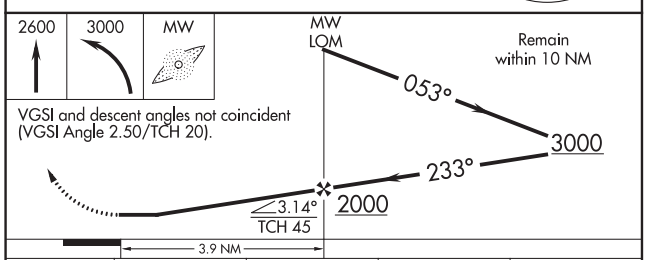




MIRL Rwy 5-23

REIL Rwy 5 and 23

FAF to MAP 3.9 NM					
Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18



VGSI and descent angles not coincident (VGSI Angle 2.50/TCH 20).

CATEGORY	A	B	C	D
S-23	1140-1	490 (500-1)	1140-1⅜ 490 (500-1⅜)	1140-1½ 490 (500-1½)
CIRCLING	1480-1¼	829 (900-1¼)	1480-2½ 829 (900-2½)	1940-3 1289 (1300-3)

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APP CRS	Rwy ldg	4400
095°	TDZE	1227
	Apt Elev	1227

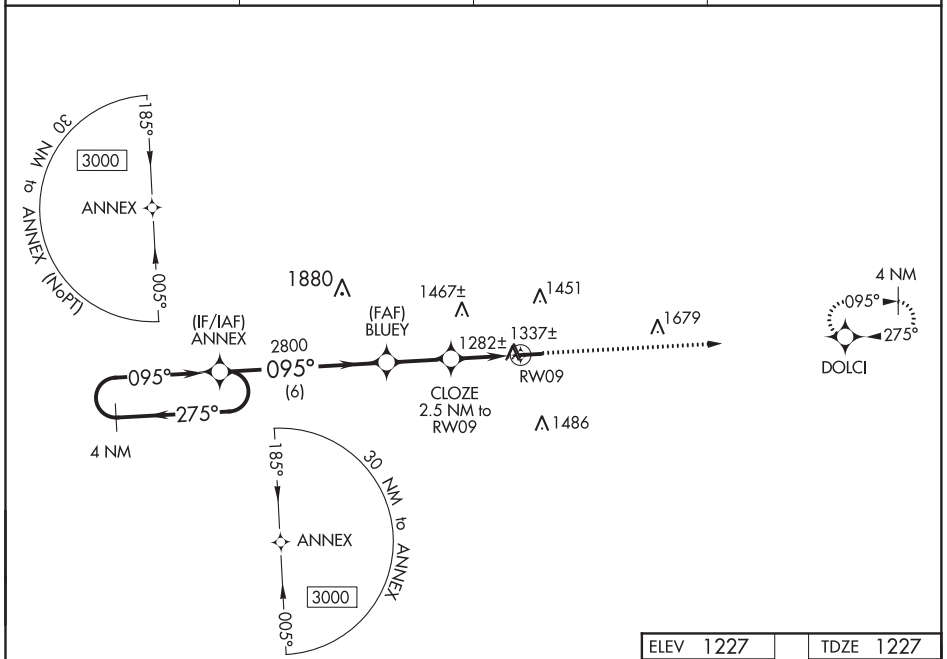
RNAV (GPS) RWY 9
HOLMES COUNTY(1ØG)

RNP APCH.

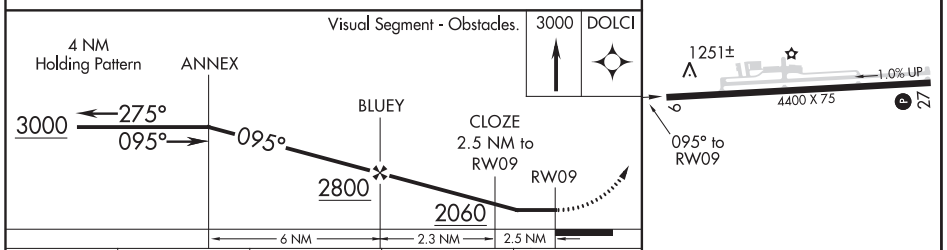
NA Rwy 9 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Wayne County altimeter setting and increase all MDA 60 feet. Increase LNAV and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct DOLCI and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM	
128.325	124.45 370.9	123.0 (CTAF)	123.4 L



ELEV 1227	TDZE 1227



CATEGORY	A	B	C	D
LNAV MDA	1620-1 393 (400-1)		1620-1⅛ 393 (400-1⅛)	
C CIRCLING	1760-1 533 (600-1)		1840-1¾ 613 (700-1¾)	1860-2 633 (700-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

MILLERSBURG, OHIO AL-5561 (FAA) 20086

RNAV (GPS) RWY 27
HOLMES COUNTY (1ØG)

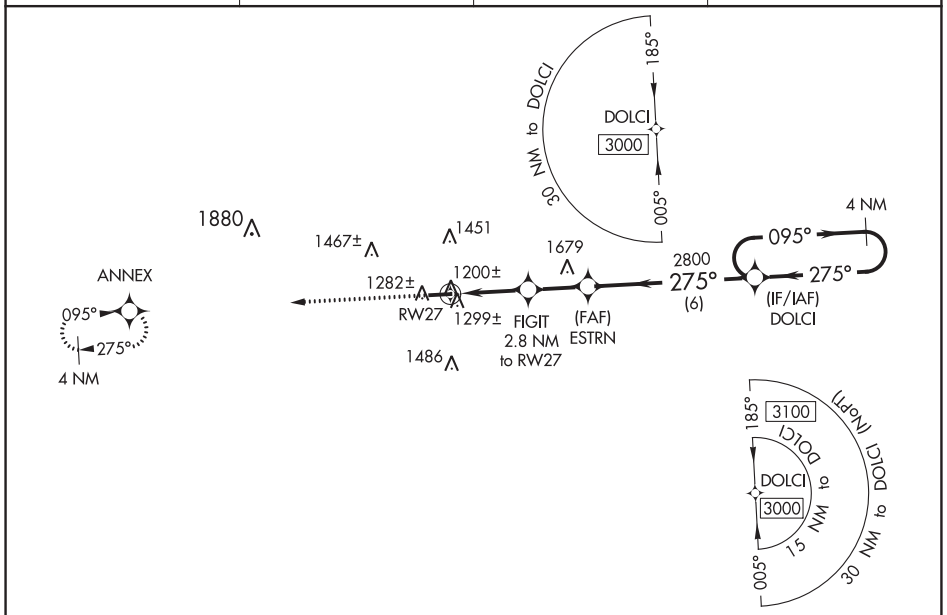
WAAS CH 57937 W27A	APP CRS 275°	Rwy ldg 4400 TDZE 1215 Apt Elev 1227

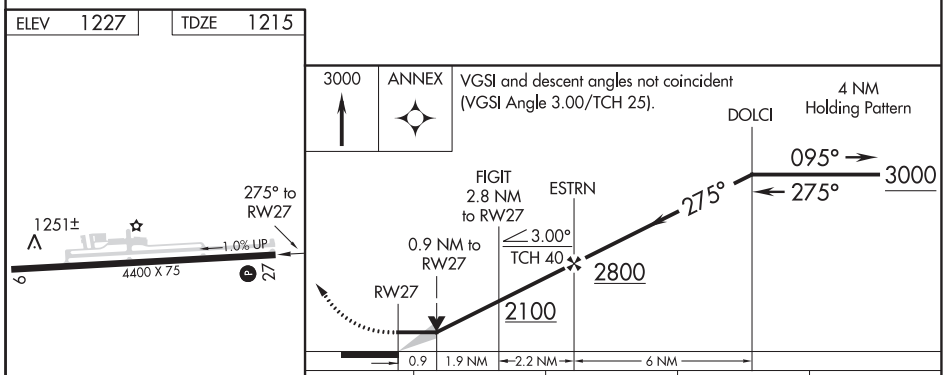
RNP APCH.

When local altimeter setting not received, use Wayne County altimeter setting and increase all MDA 60 feet. Increase LNAV Cat C/D and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct ANNEX and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM	
128.325	124.45 370.9	123.0 (CTAF)	123.4 L





CATEGORY	A	B	C	D
LP MDA	1480-1 265 (300-1)			
LNAV MDA	1560-1 345 (400-1)			
C CIRCLING	1760-1 533 (600-1)		1840-1¾ 613 (700-1¾)	1860-2 633 (700-2)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 70728 W18A	APP CRS 182°	Rwy ldg 5001 TDZE 679 Apt Elev 679

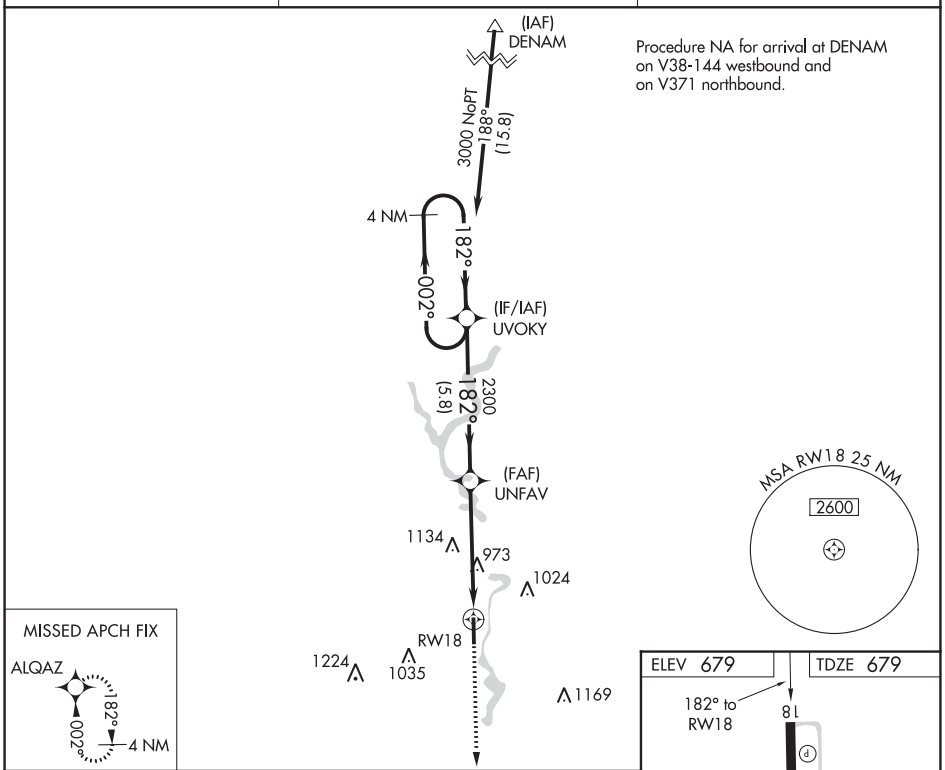
RNAV (GPS) RWY 18
WHITE COUNTY (MCX)

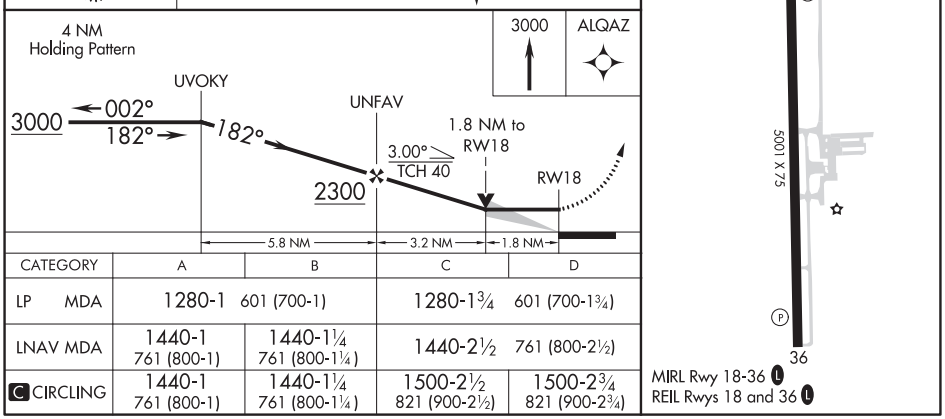
Circling Rwy 36 NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct ALQAZ and hold.

AWOS-3P	GRISSOM APP CON ★	UNICOM
124.05	123.85 291.675	122.8 (CTAF) L

Procedure NA for arrival at DENAM on V38-144 westbound and on V371 northbound.





CATEGORY	A	B	C	D
LP MDA	1280-1 601 (700-1)		1280-1¾ 601 (700-1¾)	
LNAV MDA	1440-1 761 (800-1)	1440-1¼ 761 (800-1¼)	1440-2½ 761 (800-2½)	
C CIRCLING	1440-1 761 (800-1)	1440-1¼ 761 (800-1¼)	1500-2½ 821 (900-2½)	1500-2¾ 821 (900-2¾)

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EC-2, 25 FEB 2021 to 22 APR 2021

MONTICELLO, INDIANA | AL-6184 (FAA) | 19339

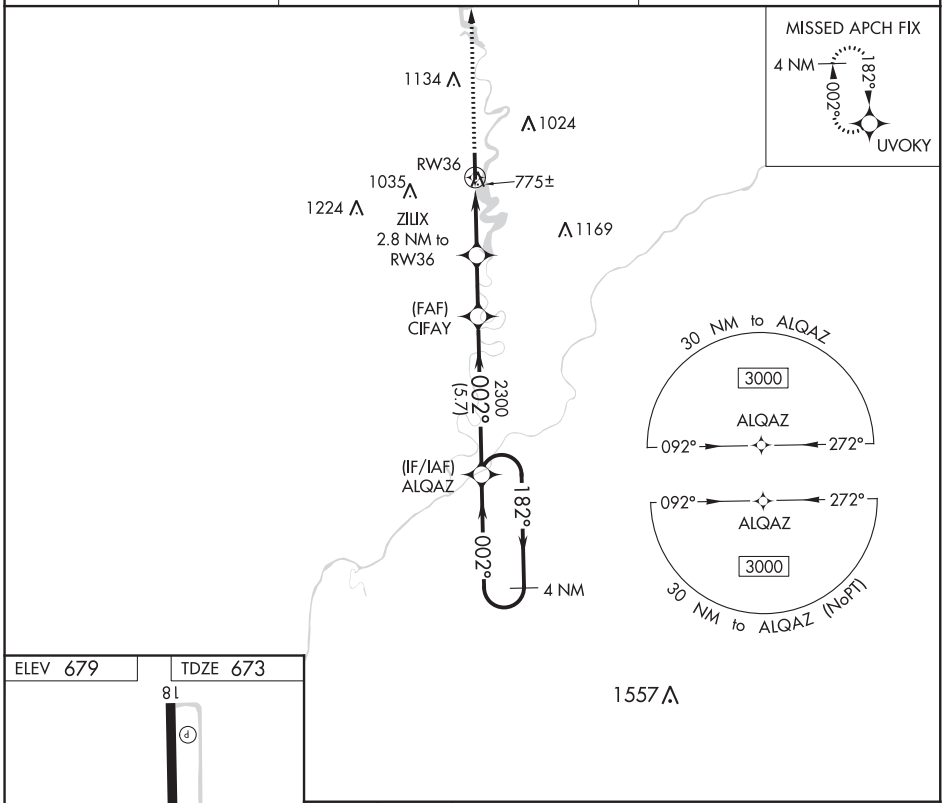
APP CRS	Rwy ldg	5001
002°	TDZE	673
	Apt Elev	679

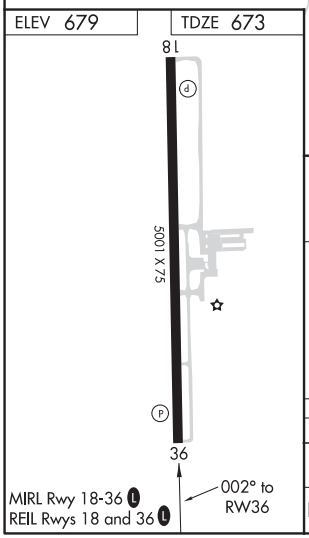
RNAV (GPS) RWY 36
WHITE COUNTY (MCX)

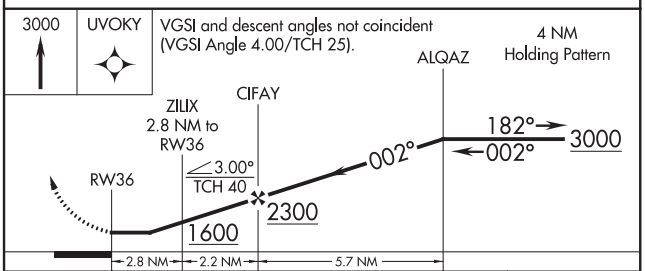
DME/DME RNP-0.3 NA. Straight-in Rwy 36 NA at night, Circling Rwy 36 NA at night. Rwy 36 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 direct UVOKY and hold.

AWOS-3P	GRISSOM APP CON ★	UNICOM
124.05	123.85 291.675	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1040-1 367 (400-1)			
C CIRCLING	1200-1 521 (600-1)	1340-1 661 (700-1)	1500-2½ 821 (900-2½)	1500-2¾ 821 (900-2¾)

MONTICELLO, INDIANA
Amdt 1 10NOV16

40°43′N-86°46′W

WHITE COUNTY (MCX)
RNAV (GPS) RWY 36

EC-2, 25 FEB 2021 to 22 APR 2021

VOR BUD	APP CRS	Rwy ldg	N/A
109.8	304°	TDZE	N/A
		Apt Elev	1086

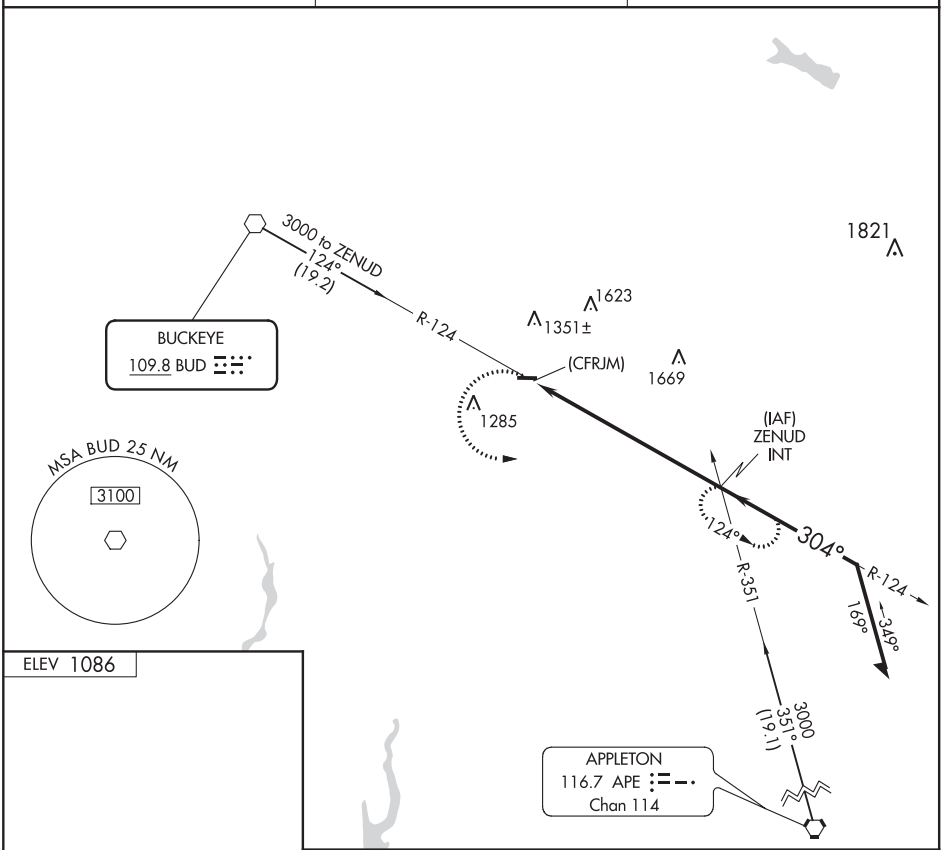
VOR-A
MORROW COUNTY (4I9)

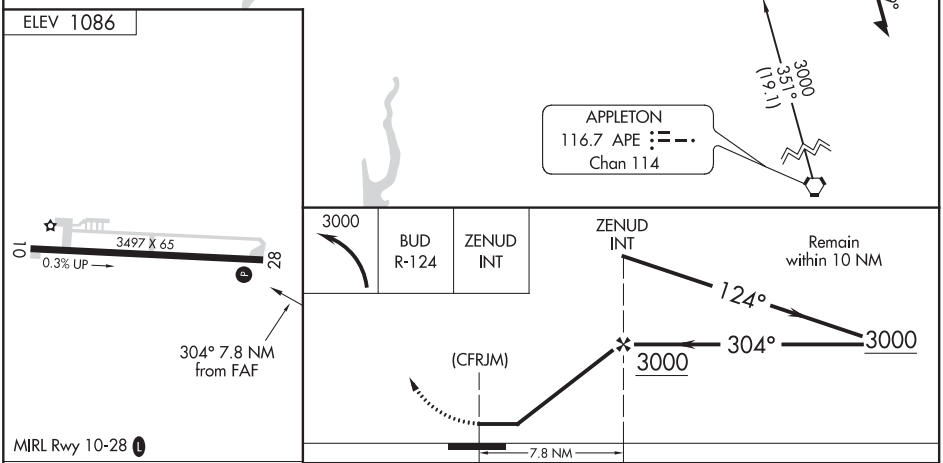
T NA

Circling Rwy 28 NA at night. Rwy 28 helicopter visibility reduction below 1 SM NA. Use Marion altimeter setting, when not received use Mansfield altimeter setting and increase all MDA 60 feet and all visibilities ¼ SM.

MISSED APPROACH: Climbing left turn to 3000 on BUD VOR R-124 to ZENUD INT and hold.

MNN ASOS	COLUMBUS APP CON	UNICOM
119.975	125.95 317.775	122.8 (CTAF) L





FAF to MAP 7.8 NM					
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

CATEGORY	A	B	C	D
C CIRCLING	1880-1	794 (800-1)	1940-2½ 854 (900-2½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

MOUNT VERNON, OHIO — AL-5447 (FAA) — 19311

WAAS CH 63123 W10A	APP CRS 104°	Rwy ldg 5498 TDZE 1191 Apt Elev 1191

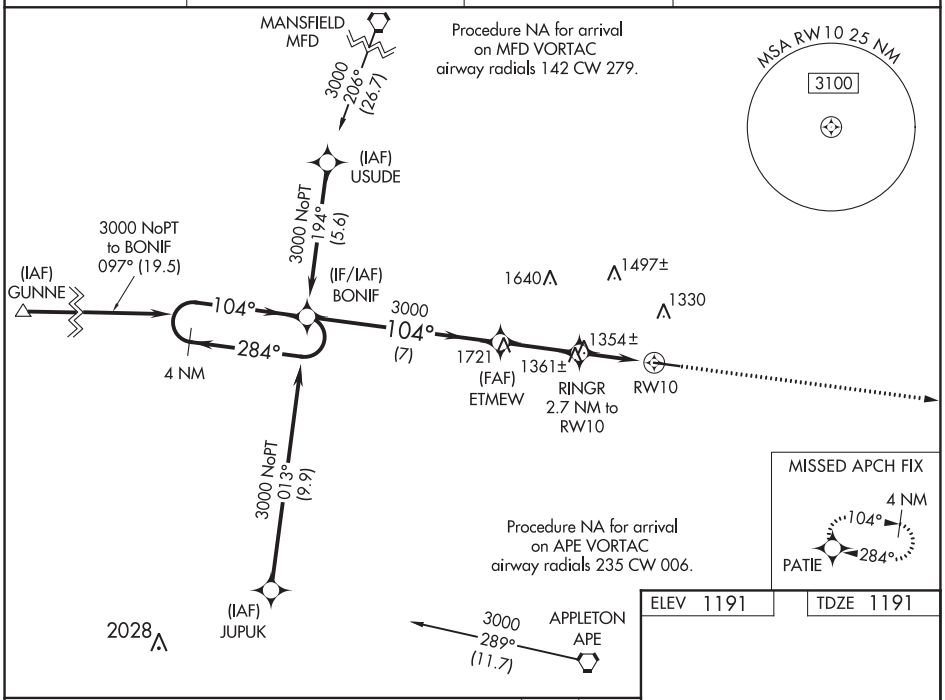
RNAV (GPS) RWY 10
KNOX COUNTY (4I3)

RNP APCH.

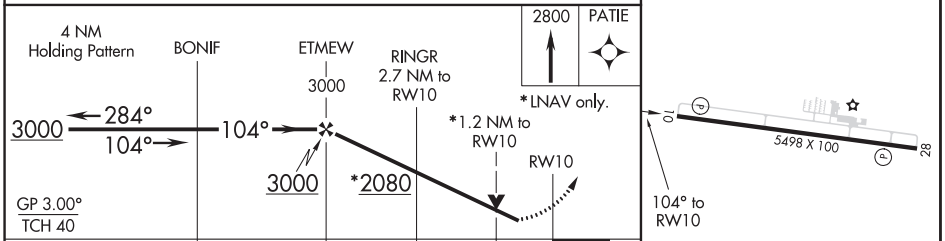
Baro-VNAV and VDP NA when using Newark altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 36°C (96°F). When Local altimeter setting not received, use Newark altimeter setting and increase all DA 86 feet and all MDA 100 feet and increase LPV all Cats, LNAV/VNAV all Cats, LNAV Cat C and D visibility ¼ mile. Rwy 10 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2800 direct PATIE and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
126.05	125.95 317.775	119.45	123.05 (CTAF) L



ELEV 1191	TDZE 1191



CATEGORY	A	B	C	D
LPV DA	1520-1⅛ 329 (400-1⅛)			
LNAV/VNAV DA	1516-1⅛ 325 (400-1⅛)			
LNAV MDA	1620-1 429 (500-1)		1620-1¼ 429 (500-1¼)	

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

MOUNT VERNON, OHIO
Amdt 1B 07NOV19

40°20′N-82°32′W

KNOX COUNTY (4I3)
RNAV (GPS) RWY 10

EC-2, 25 FEB 2021 to 22 APR 2021

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RNAV (GPS) RWY 28
KNOX COUNTY (4I3)

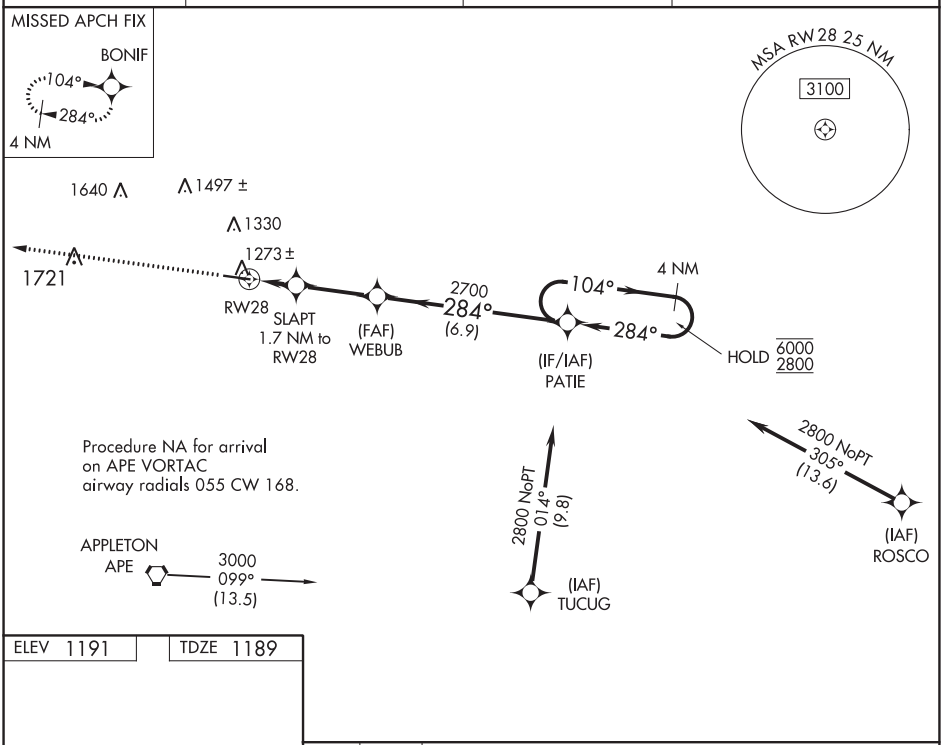
WAAS CH 69423 W28A	APP CRS 284°	Rwy ldg 5498 TDZE 1189 Apt Elev 1191

RNP APCH.

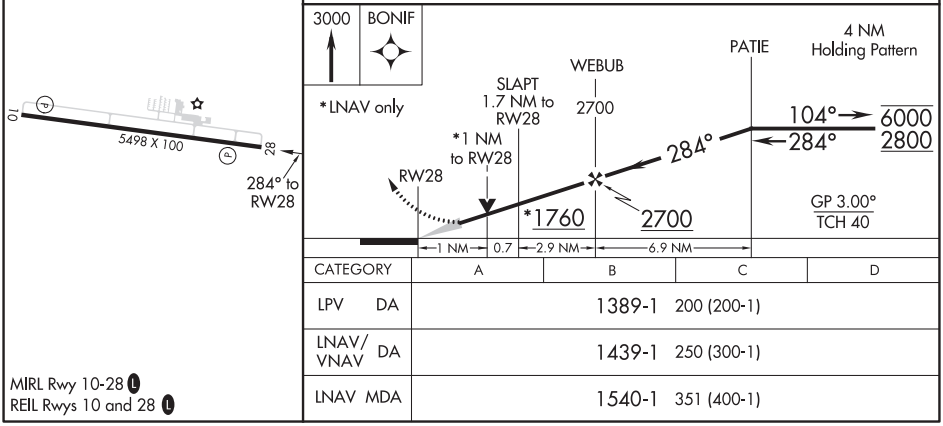
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 36°C.

MISSED APPROACH: Climb to 3000 direct BONIF and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
126.05	125.95 317.775	119.45	123.05 (CTAF) L



ELEV 1191 TDZE 1189



CATEGORY	A	B	C	D
LPV DA	1389-1 200 (200-1)			
LNAV/VNAV DA	1439-1 250 (300-1)			
LNAV MDA	1540-1 351 (400-1)			

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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EC-2, 25 FEB 2021 to 22 APR 2021

MOUNT VERNON, OHIO | AL-5447 (FAA) | 18200

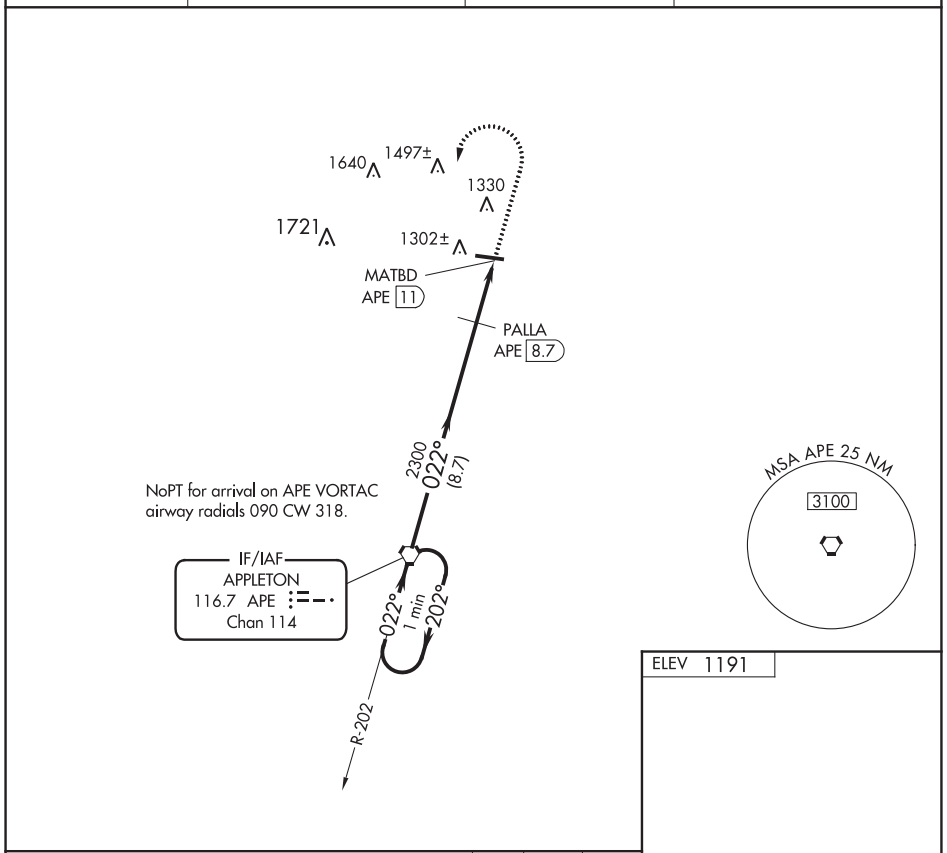
VOR-A
KNOX COUNTY (4I3)

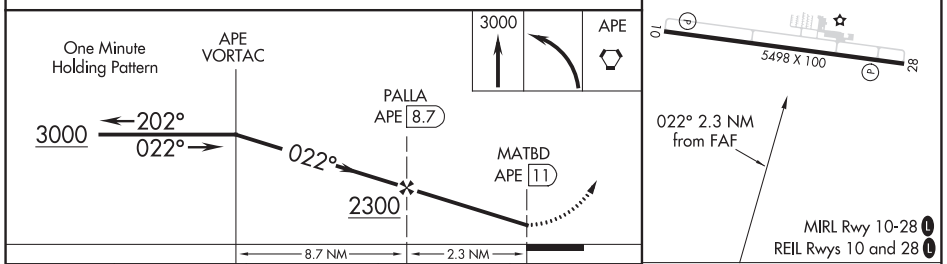
VORTAC APE	APP CRS	Rwy ldg	N/A
116.7	022°	TDZE	N/A
Chan 114		Apt Elev	1191

DME required.

MISSED APPROACH: Climb to 3000 then left turn direct APE VORTAC and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
126.05	125.95 317.775	119.45	123.05 (CTAF)





CATEGORY	A	B	C	D
CIRCLING	1660-1 469 (500-1)		1660-1½ 469 (500-1½)	1780-2 589 (600-2)

FAF to MAP 2.3 NM

Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46

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LOC I-JNK	APP CRS	Rwy ldg	6500
109.1	319°	TDZE	937
		Apt Elev	937

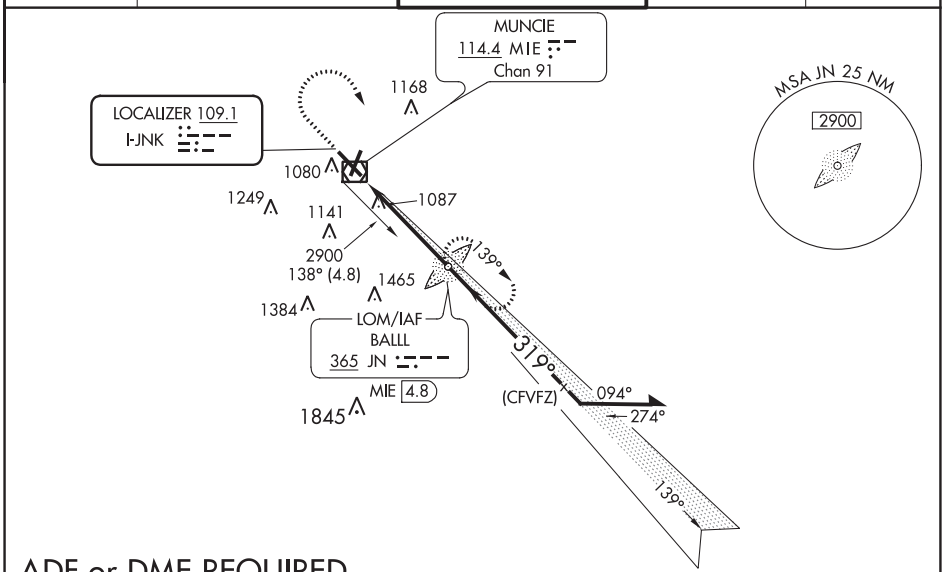
ILS or LOC RWY 32
DELAWARE COUNTY RGNL (MIE)

When control tower closed, except for operations with approved weather reporting use Fort Wayne altimeter setting. For inop MALSR when using Fort Wayne altimeter setting minimums, increase S-ILS 32 visibility to 1 SM. When local altimeter setting not received, use Fort Wayne altimeter setting: increase DA to 1257 feet and visibility all Cats ¼ SM; increase all MDAs 120 feet and visibility Cat C ⅝ SM, Cat D 1⅝ SM. VDP NA when using Fort Wayne altimeter setting.

MALSR A5

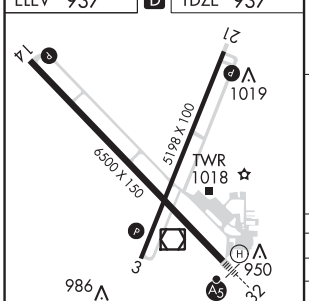
MISSED APPROACH: Climb to 1460 then climbing right turn to 2900 direct BALLL LOM and hold.

ATIS	INDIANAPOLIS APP CON	MUNCIE TOWER *	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95



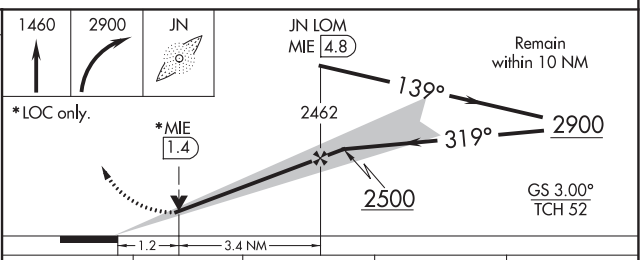
ADF or DME REQUIRED

ELEV 937 D TDZE 937



HIRL Rwy 14-32 L
MIRL Rwy 3-21 L
REIL Rwys 3, 14 and 21 L

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D
S-ILS 32	1137-½ 200 (200-½)			
S-LOC 32	1380-½ 443 (500-½)		1380-⅞ 443 (500-⅞)	
C CIRCLING	1460-1 523 (600-1)		1500-1½ 563 (600-1½)	1600-2 663 (700-2)
FORT WAYNE ALTIMETER SETTING MINIMUMS				
S-ILS 32	1257-⅝ 320 (400-⅝)			
S-LOC 32	1520-½ 583 (600-½)		1520-1½ 583 (600-1½)	1520-2½ 583 (600-2½)
C CIRCLING	1580-1 643 (700-1)		1600-1¾ 663 (700-1¾)	1720-2½ 783 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

MUNCIE, INDIANA

AL-5011 (FAA)

19003

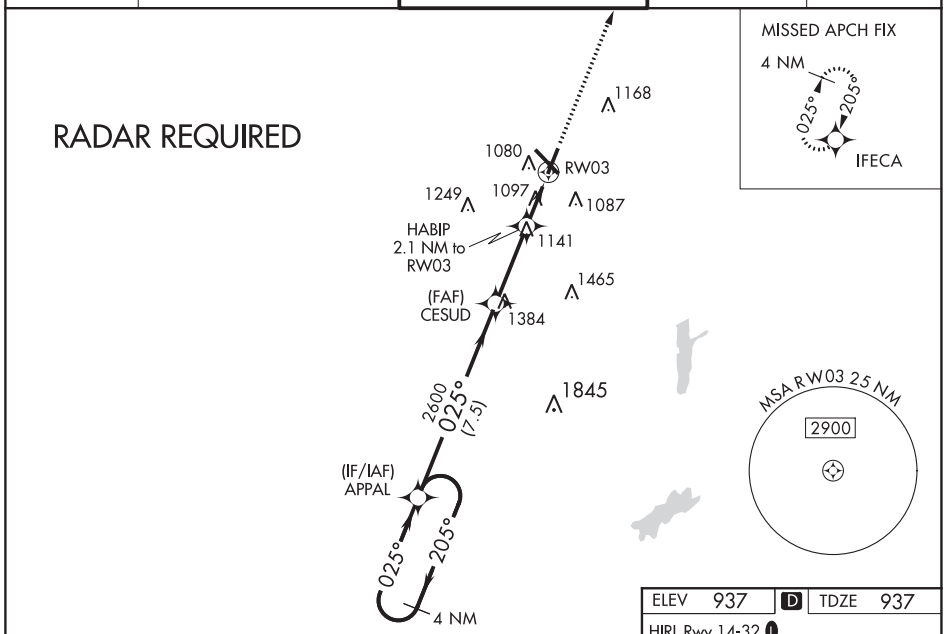
RNAV (GPS) RWY 3
DELAWARE COUNTY RGNL (MIE)

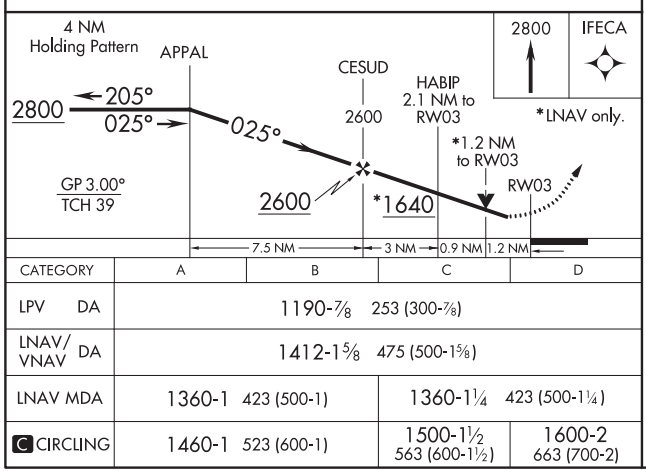
WAAS CH 78237 W03A	APP CRS 025°	Rwy ldg 5197 TDZE 937 Apt Elev 937

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all DA 121 feet and all MDA 140 feet; increase LPV all Cats and LNAV Cats C/D visibility ⅜ mile, LNAV/VNAV all Cats visibility ⅞ mile and Circling Cats C/D visibility ½ mile. Baro-VNAV NA when using Fort Wayne Intl altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2800 direct IFECA and hold.

ATIS	INDIANAPOLIS CENTER	MUNCIE TOWER*	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95

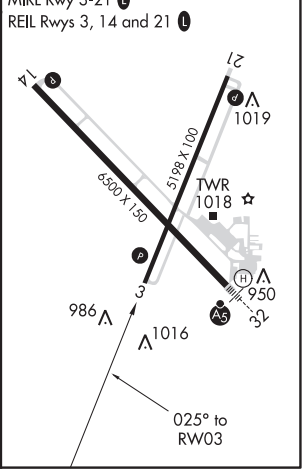




CATEGORY	A	B	C	D
LPV DA	1190-⅞ 253 (300-⅞)			
LNAV/VNAV DA	1412-1⅝ 475 (500-1⅝)			
LNAV MDA	1360-1 423 (500-1)		1360-1¼ 423 (500-1¼)	
C CIRCLING	1460-1 523 (600-1)		1500-1½ 563 (600-1½)	1600-2 663 (700-2)

ELEV 937 | D | TDZE 937

HIRL Rwy 14-32 L
MIRL Rwy 3-21 L
REIL Rwys 3, 14 and 21 L



MUNCIE, INDIANA
Orig 05MAR15

40°15'N-85°24'W

DELAWARE COUNTY RGNL (MIE)
RNAV (GPS) RWY 3

EC-2, 25 FEB 2021 to 22 APR 2021

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WAAS CH 56401 W14A	APP CRS 139°	Rwy ldg 6500 TDZE 933 Apt Elev 937

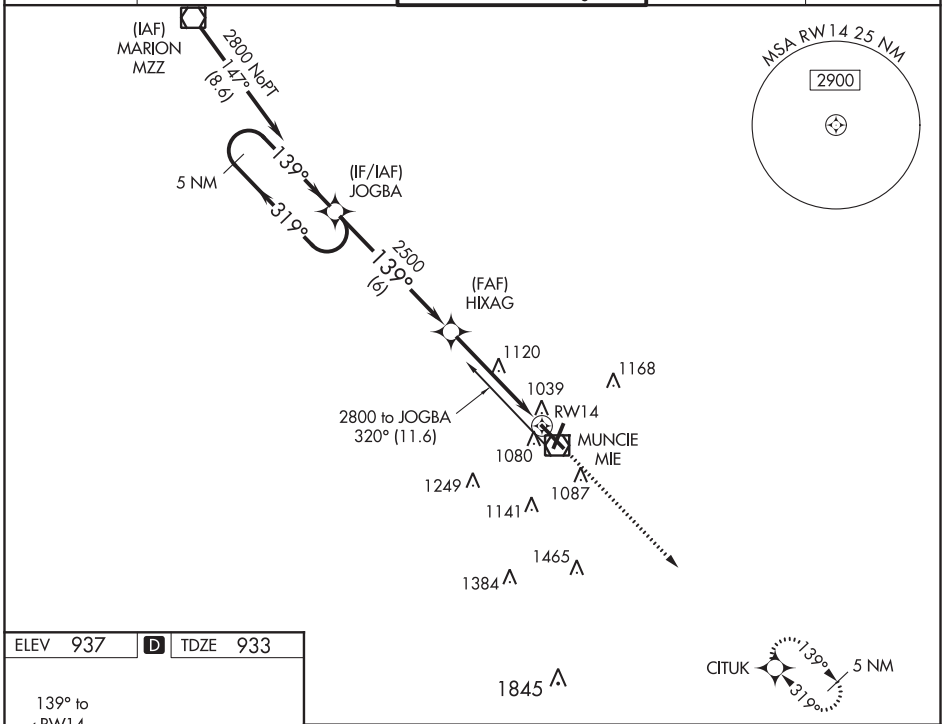
RNAV (GPS) RWY 14
DELAWARE COUNTY RGNL (MIE)

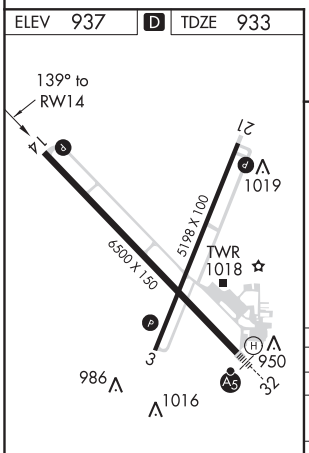
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Baro-VNAV and VDP NA when using Fort Wayne Intl altimeter setting. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase LPV DA all Cats to 1375 and visibility ⅜ SM, LNAV/VNAV DA all Cats to 1410 and visibility ⅛ SM; increase all MDA 140 feet and LNAV Cat C ½ SM and Cat D ¼ SM, Circling visibility Cat C/D ½ SM.

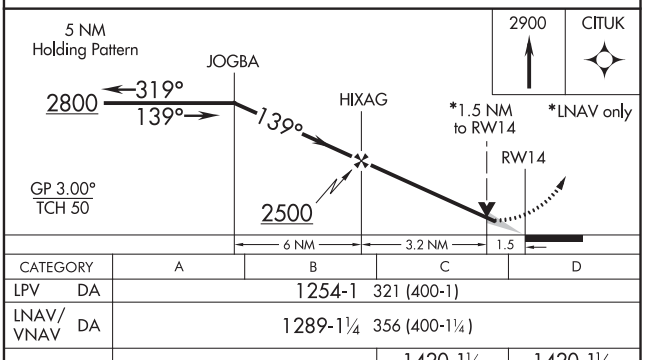
MISSED APPROACH: Climb to 2900 direct CITUK and hold.

ATIS	INDIANAPOLIS APP CON	MUNCIE TOWER ★	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95





HIRL Rwy 14-32 L
MIRL Rwy 3-21 L
REIL Rwys 3, 14 and 21 L



CATEGORY	A	B	C	D
LPV DA	1254-1 321 (400-1)			
LNAV/VNAV DA	1289-1¼ 356 (400-1¼)			
LNAV MDA	1420-1 487 (500-1)		1420-1¼ 487 (500-1¼)	1420-1½ 487 (500-1½)
C CIRCLING	1460-1¼ 523 (600-1¼)		1480-1½ 543 (600-1½)	1560-2 623 (700-2)

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MUNCIE, INDIANA

AL-5011 (FAA)

19003

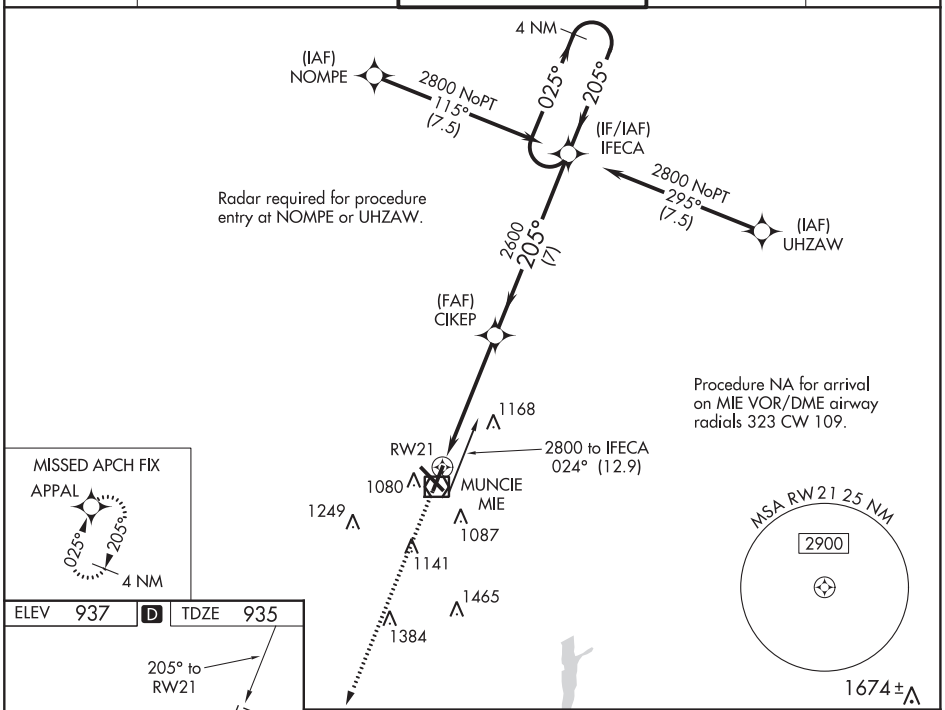
RNAV (GPS) RWY 21
DELAWARE COUNTY RGNL (MIE)

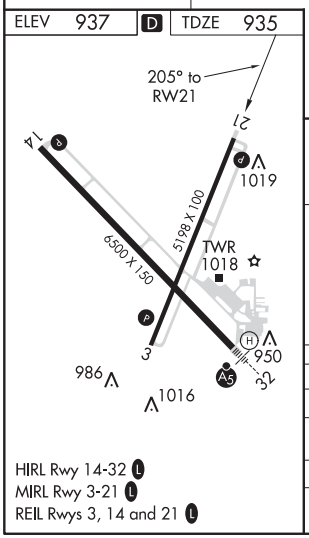
WAAS CH 53537 W21A	APP CRS 205°	Rwy ldg 5197 TDZE 935 Apt Elev 937

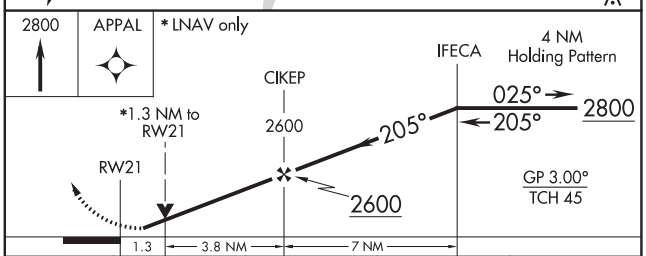
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all DA 121 feet and all MDA 140 feet; increase LPV all Cats and LNAV Cats C/D visibility 3/8 mile and LNAV/VNAV all Cats and Circling Cats C/D visibility 1/2 mile. Baro-VNAV and VDP NA when using Fort Wayne Intl altimeter setting. Helicopter visibility reduction below 3/4 SM NA.

MISSED APPROACH: Climb to 2800 direct APPAL and hold.

ATIS	INDIANAPOLIS CENTER	MUNCIE TOWER *	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95







CATEGORY	A	B	C	D
LPV DA	1195-7/8 260 (300-7/8)			
LNAV/VNAV DA	1351-1 3/8 416 (500-1 3/8)			
LNAV MDA	1400-1 465 (500-1)		1400-1 3/8 465 (500-1 3/8)	
C CIRCLING	1460-1 523 (600-1)		1500-1 1/2 563 (600-1 1/2)	1600-2 663 (700-2)

HIRL Rwy 14-32 L
MIRL Rwy 3-21 L
REIL Rwys 3, 14 and 21 L

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RNAV (GPS) RWY 32
DELAWARE COUNTY RGNL (MIE)

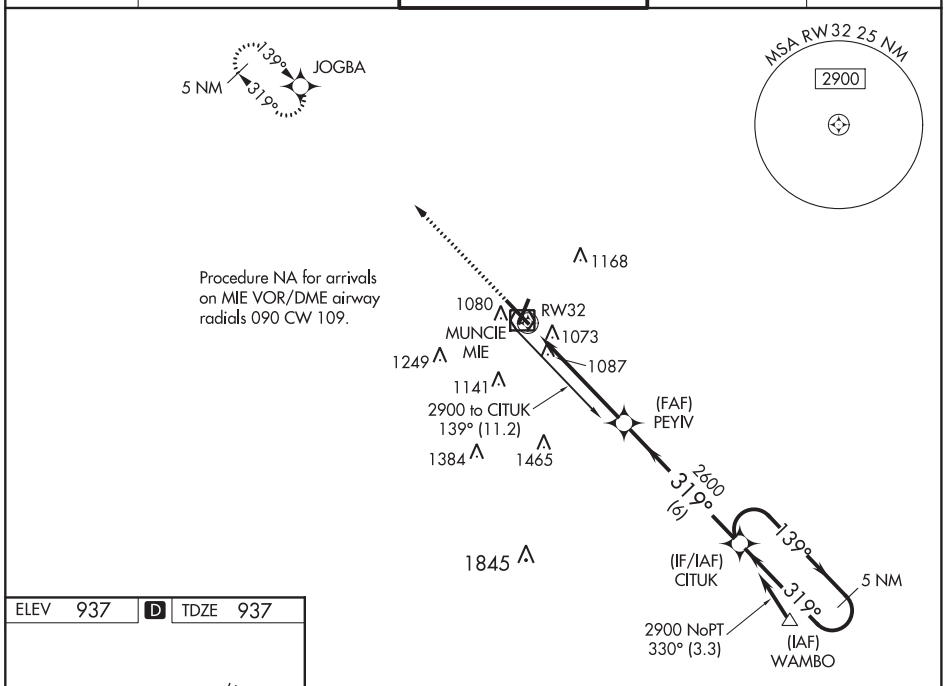
WAAS CH 72601 W32A	APP CRS 319°	Rwy ldg 6500 TDZE 937 Apt Elev 937

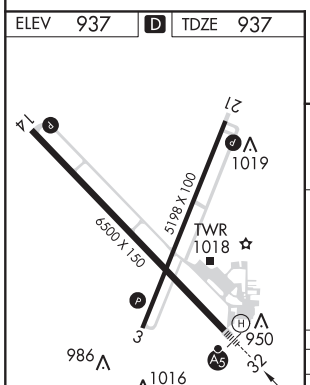
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Fort Wayne Intl altimeter setting. For inop MALSR when using Fort Wayne Intl altimeter setting, increase LPV all Cats visibility to 1½ mile. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase DA 121 feet; increase LPV and LNAV/VNAV all Cats visibility by ½ mile; increase all MDA 140 feet and LNAV visibility Cats C and D to 1¼; increase Circling visibility Cats C and D by ¼ mile. For inop MALSR, increase all LPV Cats visibility to 1 SM.

MALSR

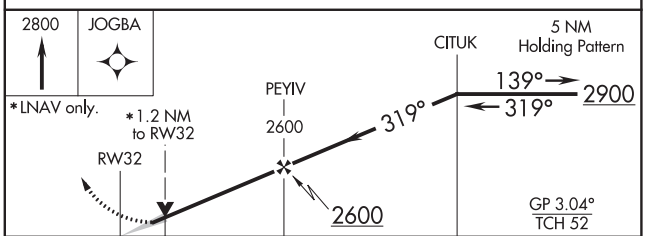
MISSED APPROACH: Climb to 2800 direct JOGBA and hold.

ATIS	INDIANAPOLIS APP CON	MUNCIE TOWER ★	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95





HIRL Rwy 14-32 L
MIRL Rwy 3-21 L
REIL Rwys 3, 14 and 21 L



CATEGORY	A	B	C	D
LPV DA	1241-½ 304 (400-½)			
LNAV/VNAV DA	1396-1⅛ 459 (500-1⅛)			
LNAV MDA	1460-½ 523 (600-½)		1460-1 523 (600-1)	
C CIRCLING	1460-1 523 (600-1)		1480-1½ 543 (600-1½)	1560-2 623 (700-2)

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MUNCIE, INDIANA

AL-5011 (FAA)

20254

VOR RWY 14

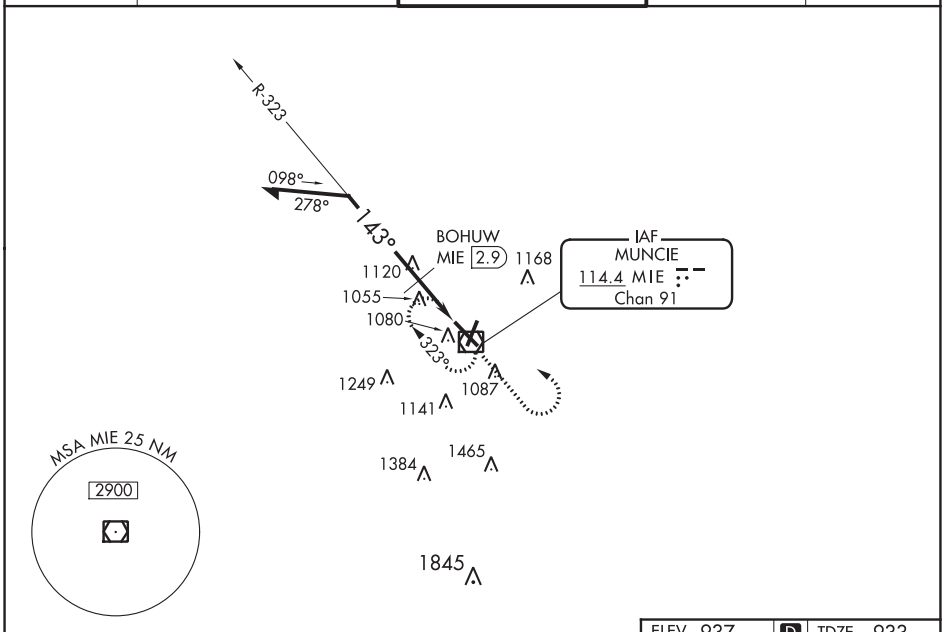
DELAWARE COUNTY RGNL (MIE)

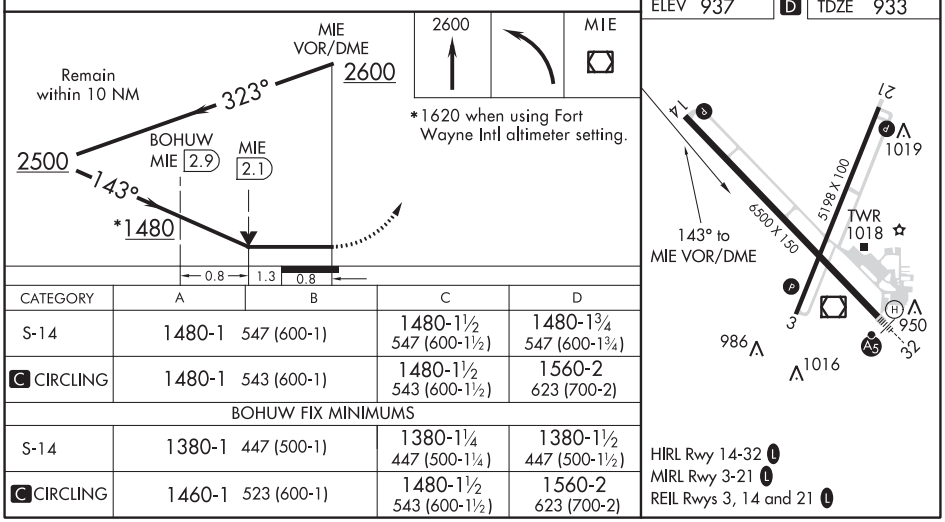
VOR/DME MIE	APP CRS	Rwy ldg 6500
114.4	143°	TDZE 933
Chan 91		Apt Elev 937

When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDAs 140 feet; increase S-14 Cat C visibility ½ SM, Cat D ¼ SM; increase Circling Cat C/D visibility ½ SM. BOHUW fix minimums: increase S-14 Cat C visibility ½ SM, Cat D ¼ SM and Circling Cat C/D visibility ½ SM. VDP NA with Fort Wayne altimeter setting.

MISSED APPROACH: Climb to 2600 then left turn direct MIE VOR/DME and hold.

ATIS	INDIANAPOLIS APP CON	MUNCIE TOWER ★	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95





CATEGORY	A	B	C	D
S-14	1480-1 547 (600-1)		1480-1½ 547 (600-1½)	1480-1¾ 547 (600-1¾)
C CIRCLING	1480-1 543 (600-1)		1480-1½ 543 (600-1½)	1560-2 623 (700-2)
BOHUW FIX MINIMUMS				
S-14	1380-1 447 (500-1)		1380-1¼ 447 (500-1¼)	1380-1½ 447 (500-1½)
C CIRCLING	1460-1 523 (600-1)		1480-1½ 543 (600-1½)	1560-2 623 (700-2)

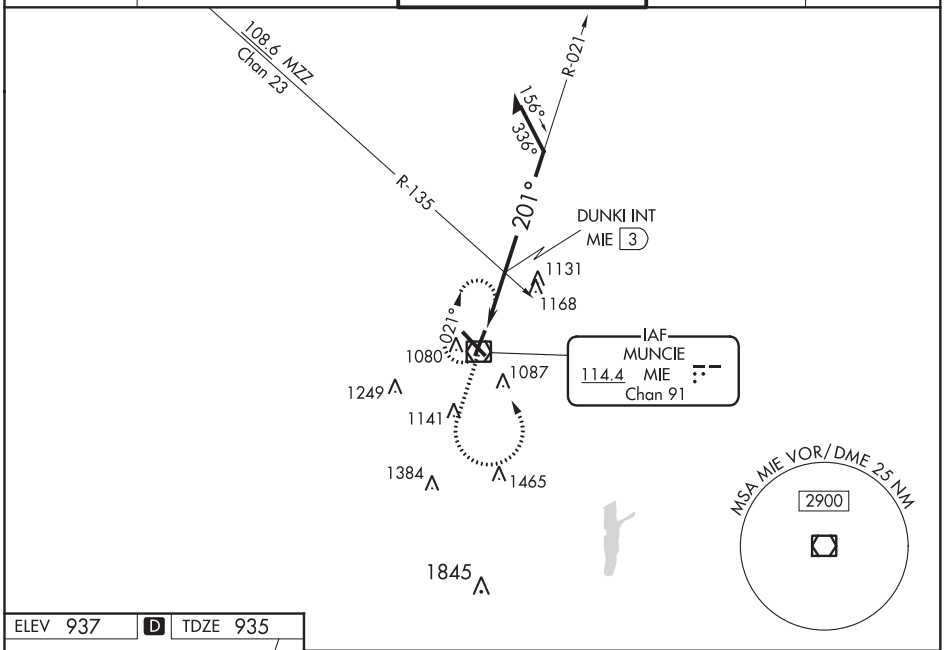
VOR/DME MIE	APP CRS	Rwy ldg 5197
114.4	201°	TDZE 935
Chan 91		Apt Elev 937

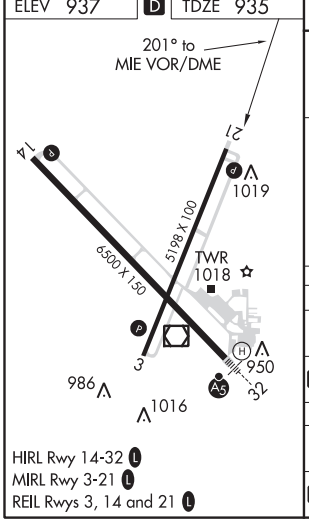
VOR RWY 21
DELAWARE COUNTY RGNL (MIE)

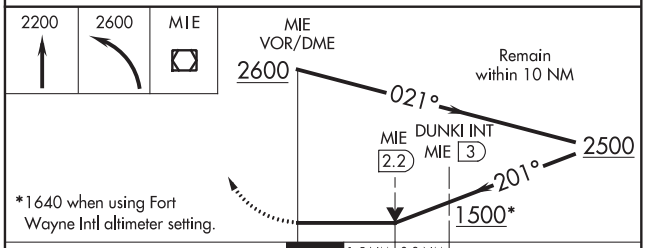
Visibility reduction by helicopters NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDAs 140 feet; increase S-21 Cat C visibility ½ SM and Cat D visibility ¼ SM; increase Circling Cat C visibility ½ SM and Cat D ¼ SM; DUNKI fix minimums: increase S-21 Cat C/D ⅜ SM and Circling visibility Cat C/D ½ SM. VDP NA when using Fort Wayne Intl altimeter setting.

MISSED APPROACH: Climb to 2200 then climbing left turn to 2600 direct MIE VOR/DME and hold.

ATIS	INDIANAPOLIS APP CON	MUNCIE TOWER*	GND CON	UNICOM
133.25	120.65 317.8	120.1 (CTAF) L	121.9	122.95







CATEGORY	A	B	C	D
S-21	1500-1 565 (600-1)		1500-1½ 565 (600-1½)	1500-1¾ 565 (600-1¾)
C CIRCLING	1500-1 563 (600-1)		1500-1½ 563 (600-1½)	1560-2 623 (700-2)
DUNKI FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)				
S-21	1440-1 505 (600-1)		1440-1½ 505 (600-1½)	
C CIRCLING	1460-1 523 (600-1)		1480-1½ 543 (600-1½)	1560-2 623 (700-2)

EC-2, 25 FEB 2021 to 22 APR 2021

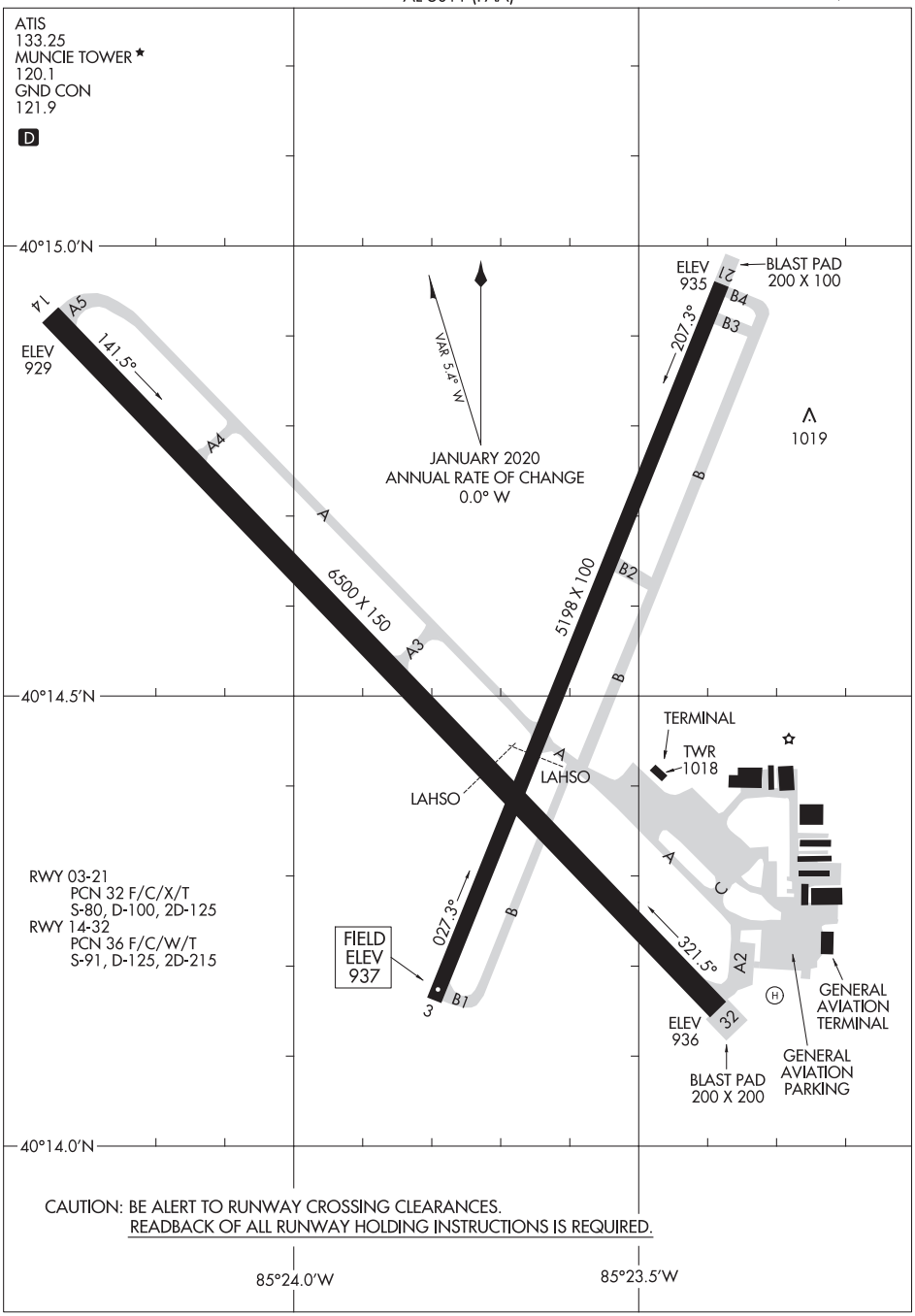
EC-2, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-5011 (FAA)

DELAWARE COUNTY RGNL (MIE)
MUNCIE, INDIANA



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AIRPORT DIAGRAM
20086
MUNCIE, INDIANA
DELAWARE COUNTY RGNL (MIE)

APP CRS	Rwy ldg	4001
286°	TDZE	683
	Apt Elev	683

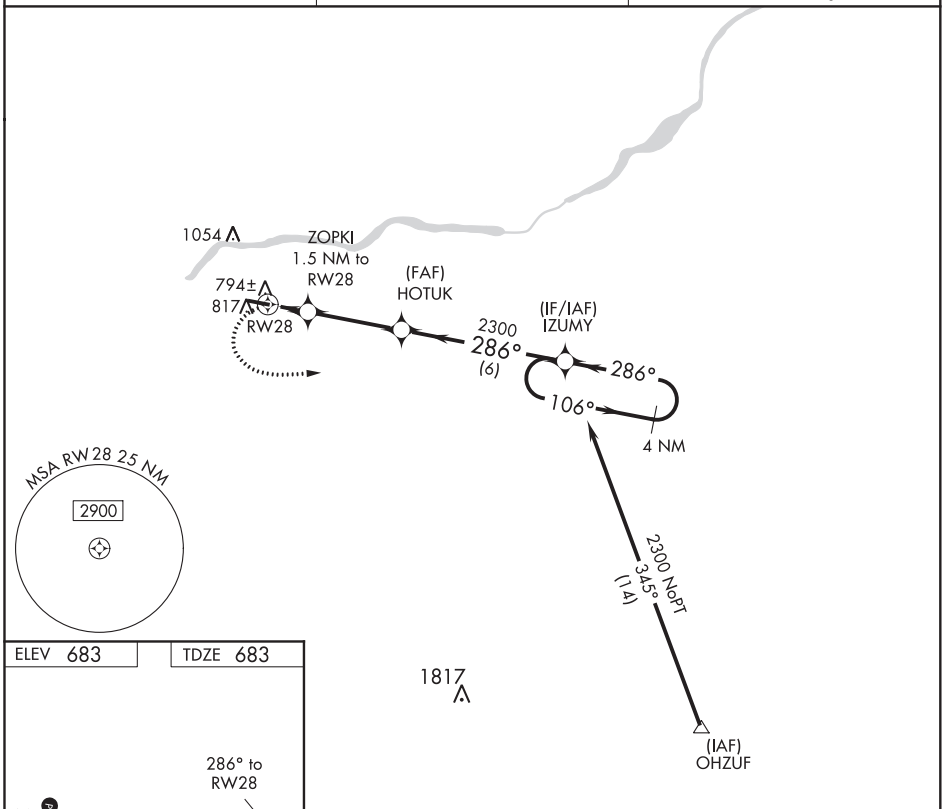
RNAV (GPS) RWY 28
HENRY COUNTY (7W5)

RNP APCH.

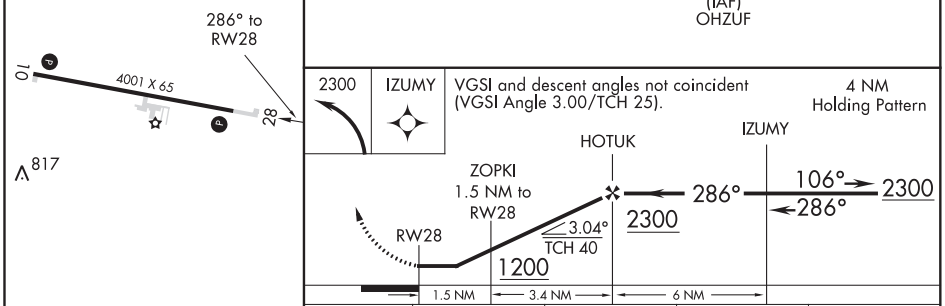
T A NA Rwy 28 helicopter visibility reduction below ¾ SM NA. Circling Rwy 10 NA at night. Use Toledo Express altimeter setting. When not received, procedure NA.

MISSED APPROACH: Climbing left turn to 2300 direct IZUMY and hold.

TOL ASOS	TOLEDO APP CON	UNICOM
118.75 290.225	134.35 307.0	123.0 (CTAF) L



ELEV 683 TDZE 683



CATEGORY	A	B	C	D
LNAV MDA	1100-1 417 (500-1)		1100-1⅛ 417 (500-1⅛)	NA
C CIRCLING	1220-1 537 (600-1)		1400-2 717 (800-2)	NA

REIL Rwy 10-28 L
MIRL Rwy 10-28 L

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NAPPANEE, INDIANA AL-5794 (FAA) 20254

VORTAC GSH	APP CRS	Rwy ldg	N/A
113.7	138°	TDZE	N/A
Chan 84		Apt Elev	860

VOR or GPS-B
NAPPANEE MUNI (CØ3)

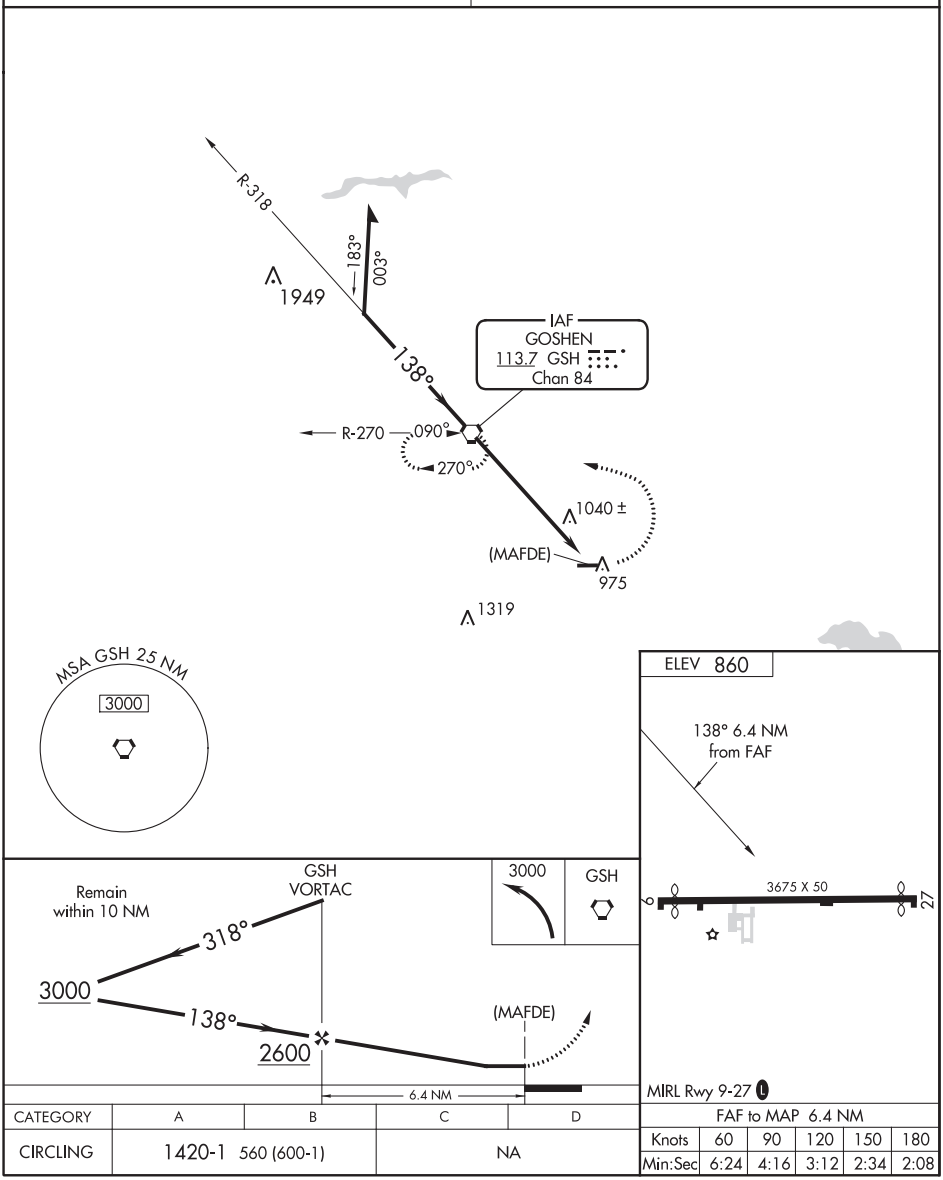
NA

Use South Bend altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 direct GSH VORTAC and hold.

SOUTH BEND APP CON ★
132.05 257.8

UNICOM
123.0 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1420-1 560 (600-1)		NA	

FAF to MAP 6.4 NM					
Knots	60	90	120	150	180
Min:Sec	6:24	4:16	3:12	2:34	2:08

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NAPPANEE, INDIANA
Amdt 1A 16DEC10

41°27′N-85°56′W

NAPPANEE MUNI (CØ3)
VOR or GPS-B

WAAS CH 82041 W10A	APP CRS 096°	Rwy ldg 4201 TDZE 1089 Apt Elev 1090

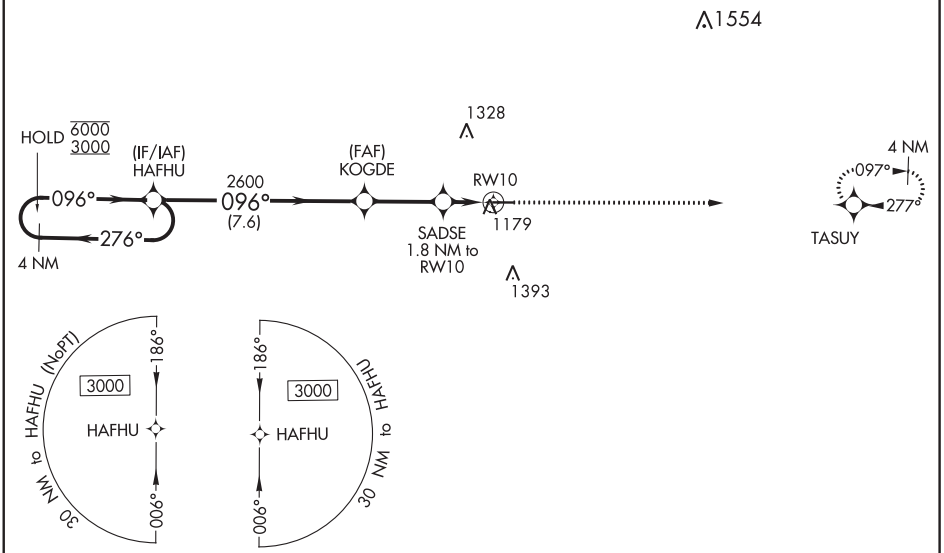
RNAV (GPS) RWY 10
NEW CASTLE HENRY COUNTY MARLATT FIELD (UWL)

RNP APCH.

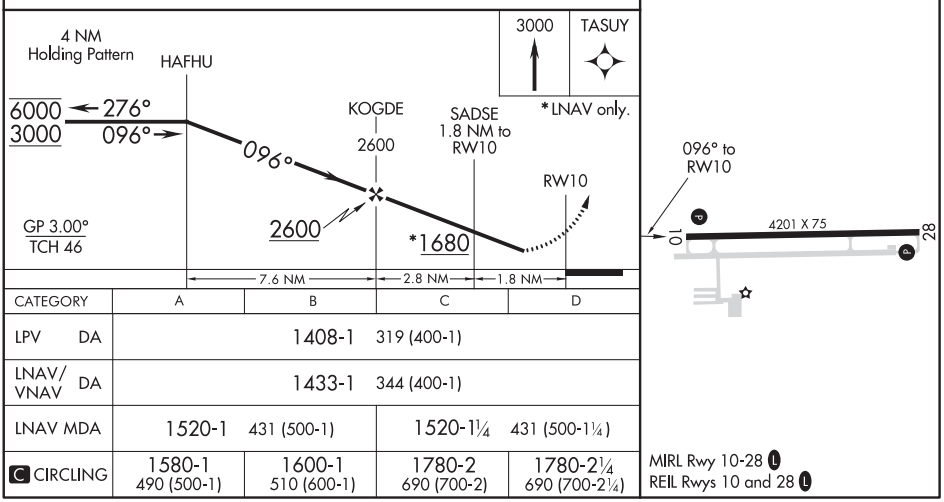
Rwy 10 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA. Use Anderson altimeter setting; when not received, use Muncie altimeter setting and increase LPV DA to 1412, LNAV/VNAV DA to 1437, and all MDA 20 feet; increase LNAV Cat C/D visibility ⅛ SM.

MISSED APPROACH: Climb to 3000 direct TASUY and hold.

AID AWOS-3	INDIANAPOLIS APP CON	UNICOM
128.55	135.45 317.8	123.05 (CTAF) L



ELEV 1090 TDZE 1089



CATEGORY	A	B	C	D
LPV DA	1408-1 319 (400-1)			
LNAV/VNAV DA	1433-1 344 (400-1)			
LNAV MDA	1520-1 431 (500-1)		1520-1¼ 431 (500-1¼)	
C CIRCLING	1580-1 490 (500-1)	1600-1 510 (600-1)	1780-2 690 (700-2)	1780-2¼ 690 (700-2¼)

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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NEW CASTLE, INDIANA | AL-6042 (FAA) | 19283

WAAS CH 70541 W28A	APP CRS 276°	Rwy ldg 4201 TDZE 1090 Apt Elev 1090

RNAV (GPS) RWY 28
NEW CASTLE HENRY COUNTY MARLATT FIELD (UWL)

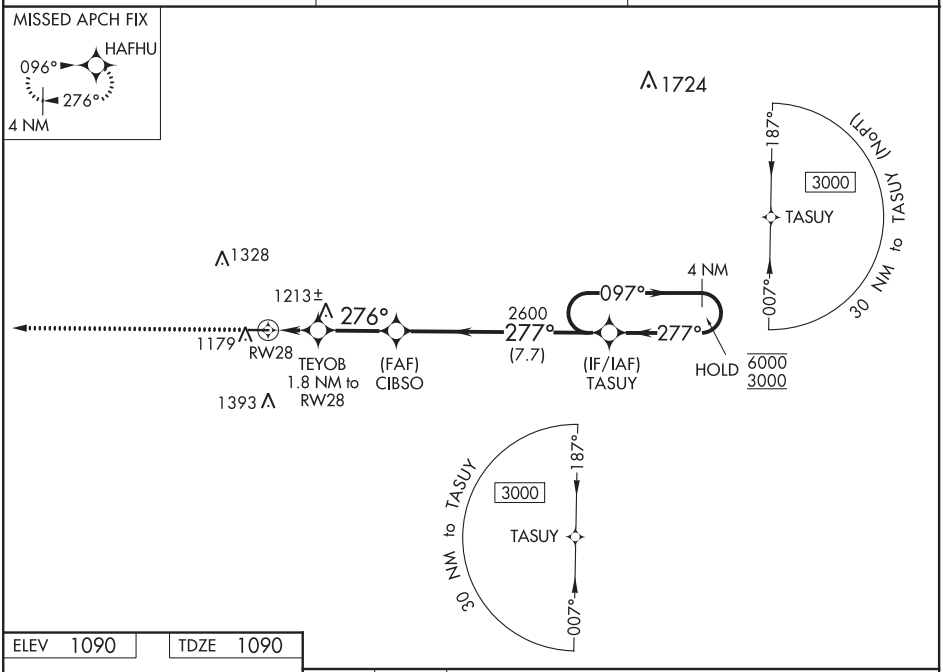
RNP APCH.

T
A NA

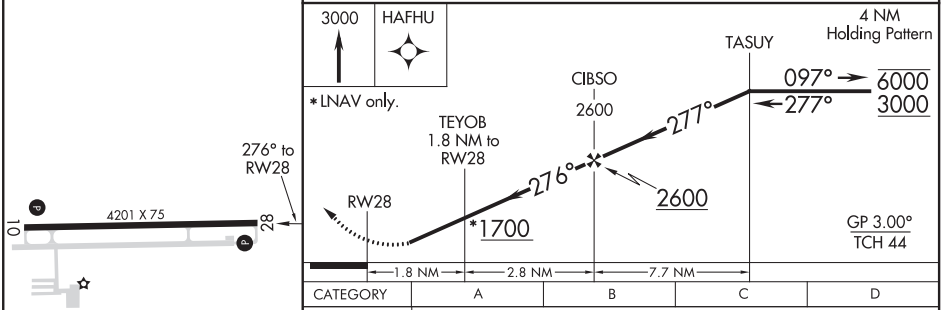
Rwy 28 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA.
Use Anderson altimeter setting; when not received, use Muncie altimeter setting and increase LPV DA to 1416, LNAV/VNAV DA to 1441, and all MDA 20 feet.

MISSED APPROACH: Climb to 3000 direct HAFHU and hold.

AID AWOS-3	INDIANAPOLIS APP CON	UNICOM
128.55	135.45 317.8	123.05 (CTAF) L



ELEV 1090 | TDZE 1090



CATEGORY	A	B	C	D
LPV DA	1412-1 322 (400-1)			
LNAV/VNAV DA	1437-1 347 (400-1)			
LNAV MDA	1540-1 450 (500-1)		1540-1⅜ 450 (500-1⅜)	
C CIRCLING	1580-1 490 (500-1)	1600-1 510 (600-1)	1780-2 690 (700-2)	1780-2¼ 690 (700-2¼)

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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NDB UWL	APP CRS	Rwy ldg	4201
385	087°	TDZE	1089
		Apt Elev	1090

NDB RWY 10

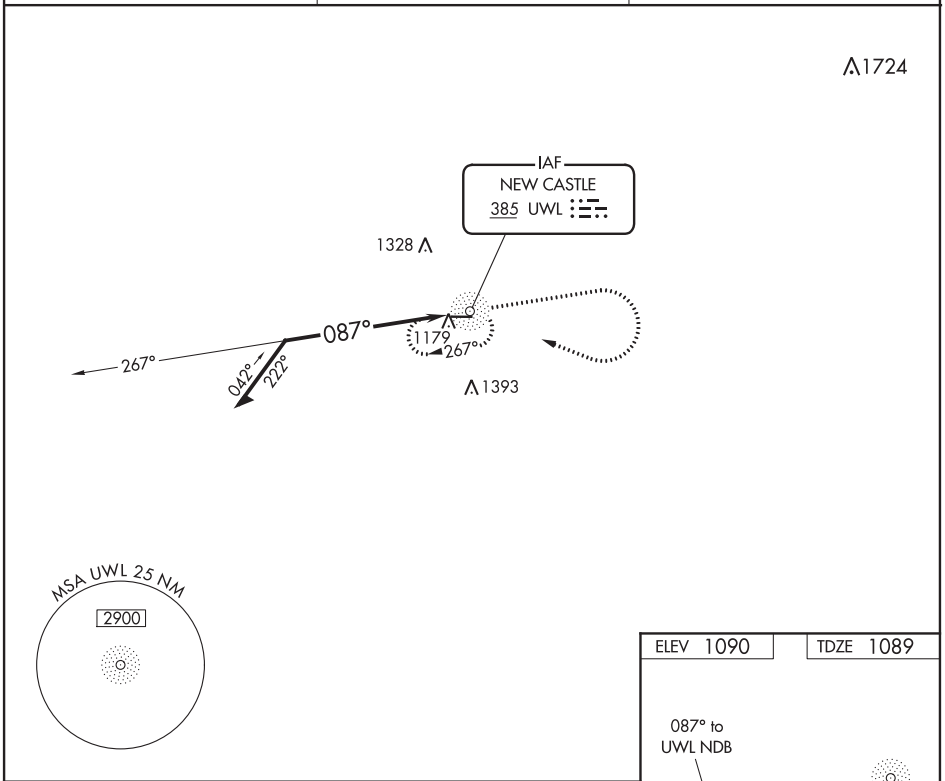
NEW CASTLE HENRY COUNTY MARLATT FIELD (UWL)

RADAR required for procedure entry.

NA — Rwy 10 helicopter visibility reduction below ¾ SM NA. Use Anderson altimeter setting; when not recieved, use Muncie altimeter setting and increase all MDA 20 feet; increase S-10 Cat C/D visibility ⅛ SM.

MISSED APPROACH: Climb to 2700 then right turn direct UWL NDB and hold.

AID AWOS-3	INDIANAPOLIS APP CON	UNICOM
128.55	135.45 317.8	123.05 (CTAF) L



CATEGORY	A	B	C	D
S-10	1760-1 671 (700-1)		1760-1⅞ 671 (700-1⅞)	
C CIRCLING	1760-1 670 (700-1)		1780-2 690 (700-2)	1780-2¼ 690 (700-2¼)

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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NEW LEXINGTON, OHIO

AL-6802 (FAA)

18144

RNAV (GPS) RWY 26
PERRY COUNTY (I86)

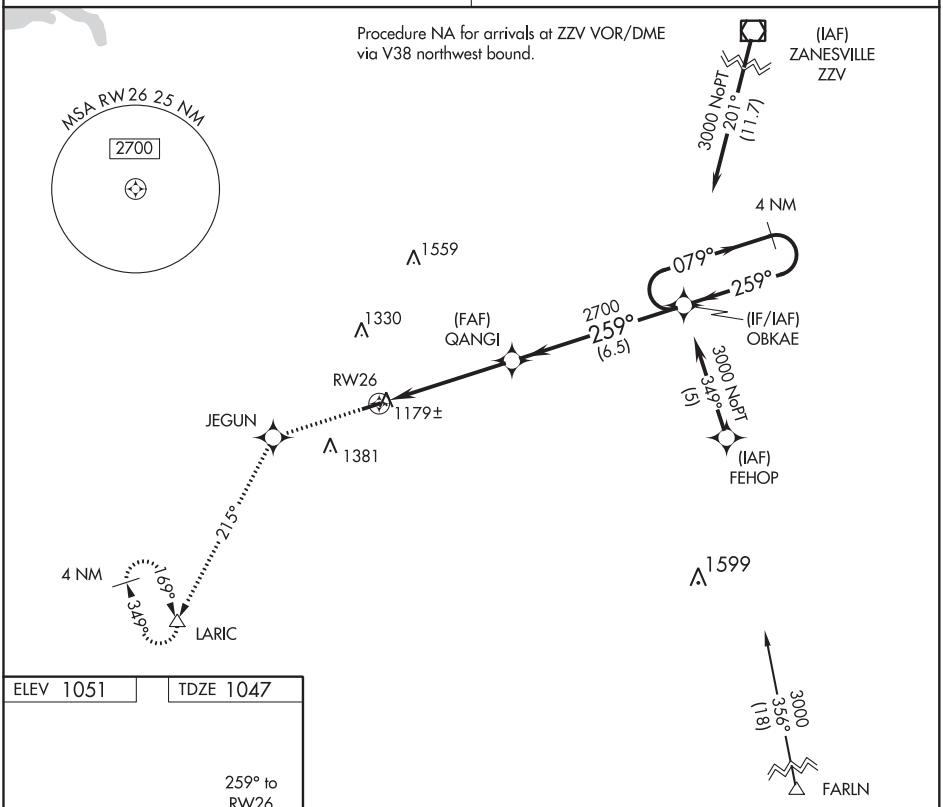
APP CRS	Rwy ldg	3498
259°	TDZE	1047
	Apt Elev	1051

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Zanesville altimeter setting; when not received, use Lancaster altimeter setting and increase all MDA 20 feet. Procedure NA at night.

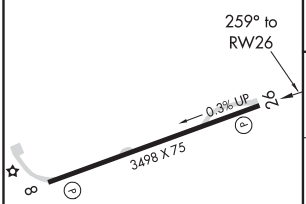
NA

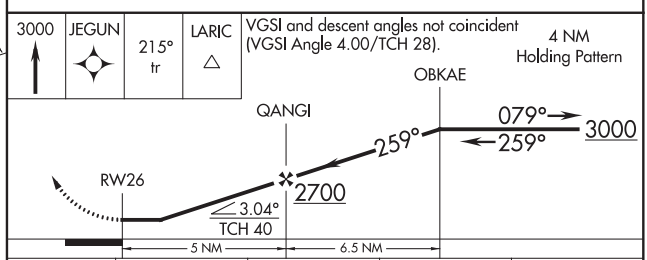
MISSED APPROACH: Climb to 3000 direct JEGUN and via 215° track to LARIC and hold.

INDIANAPOLIS CENTER	UNICOM
124.45 370.9	122.8 (CTAF) L



ELEV 1051 TDZE 1047





CATEGORY	A	B	C	D
LNAV MDA	1620 - 1	573 (600-1)	1620 - 1½ 573 (600-1½)	NA
CIRCLING	1620 - 1	569 (600-1)	1620 - 1½ 569 (600-1½)	NA

REIL Rwy 26 L
MIRL Rwy 8-26 L

NEW LEXINGTON, OHIO
Orig-B 24MAY18

39°41′N-82°12′W

PERRY COUNTY (I86)
RNAV (GPS) RWY 26

EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME ZZV 114.95 Chan 96(Y)	APP CRS 229°	Rwy ldg 3498 TDZE 1047 Apt Elev 1051

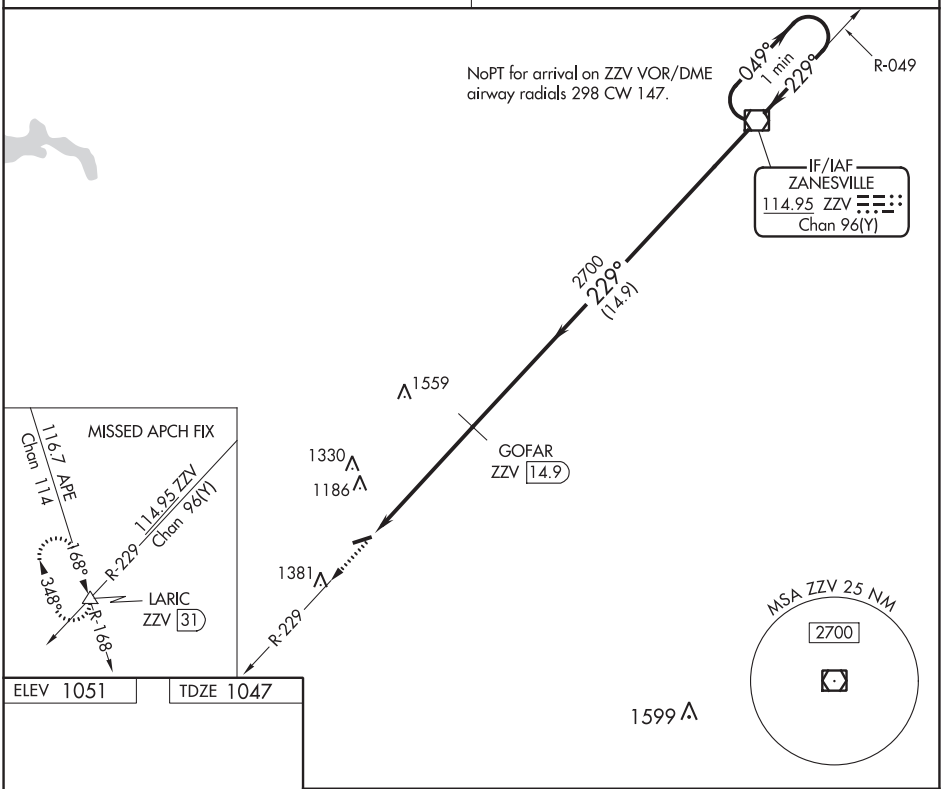
VOR/DME RWY 26
PERRY COUNTY (I86)

NA

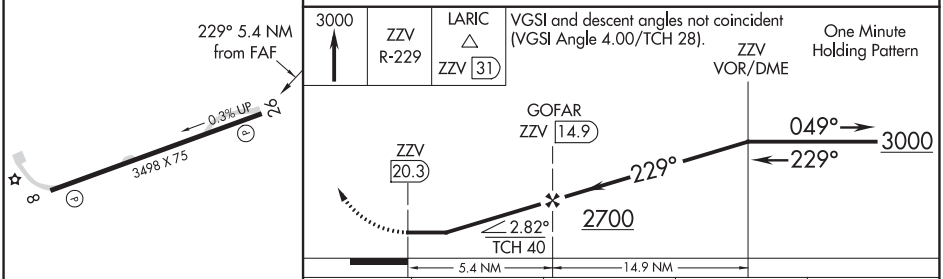
Visibility reduction by helicopters NA. Use Zanesville altimeter setting; when not received, use Lancaster altimeter setting and increase all MDA 20 feet. Procedure NA at night.

MISSED APPROACH: Climb to 3000 via ZZV VOR/DME R-229 to LARIC INT/ZZV 31 DME and hold.

INDIANAPOLIS CENTER	UNICOM
124.45 370.9	122.8 (CTAF) L



ELEV 1051 TDZE 1047



CATEGORY	A	B	C	D
S-26	1620-1 573 (600-1)	1620-1¼ 573 (600-1¼)	1620-1½ 573 (600-1½)	NA
CIRCLING	1620-1 569 (600-1)	1620-1¼ 569 (600-1¼)	1620-1½ 569 (600-1½)	NA

REIL Rwy 26 L
MIRL Rwy 8-26 L

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NEW PHILADELPHIA, OHIO | AL-5554 (FAA) | 20310

RNAV (GPS) RWY 15
HARRY CLEVER FIELD (PHD)

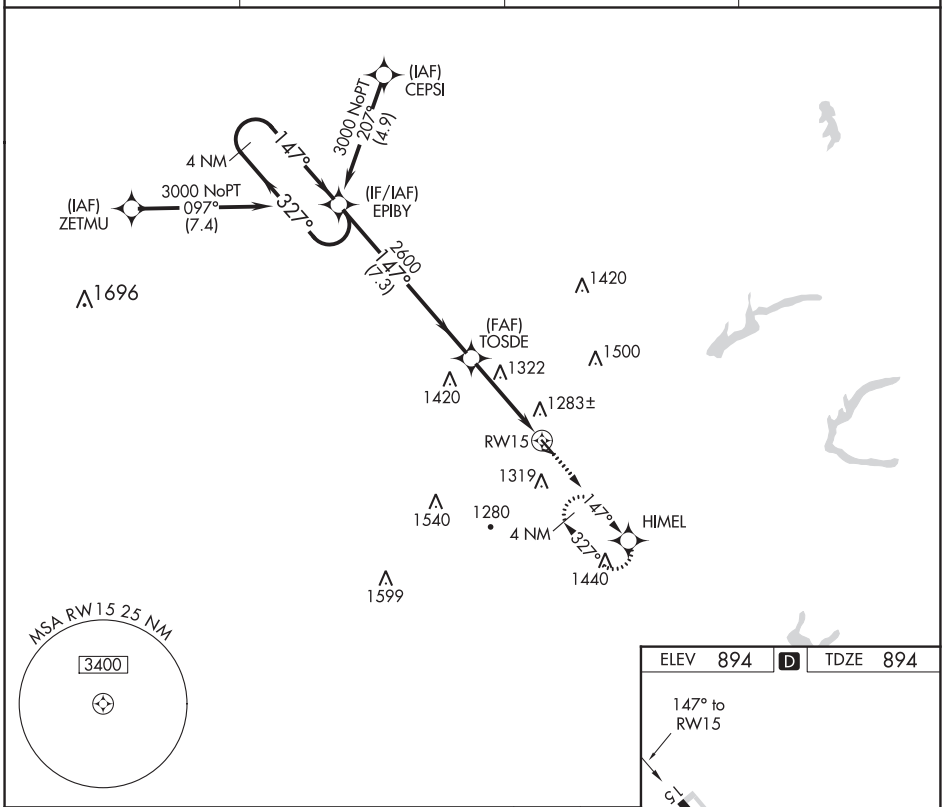
APP CRS	Rwy ldg	3621
147°	TDZE	894
	Apt Elev	894

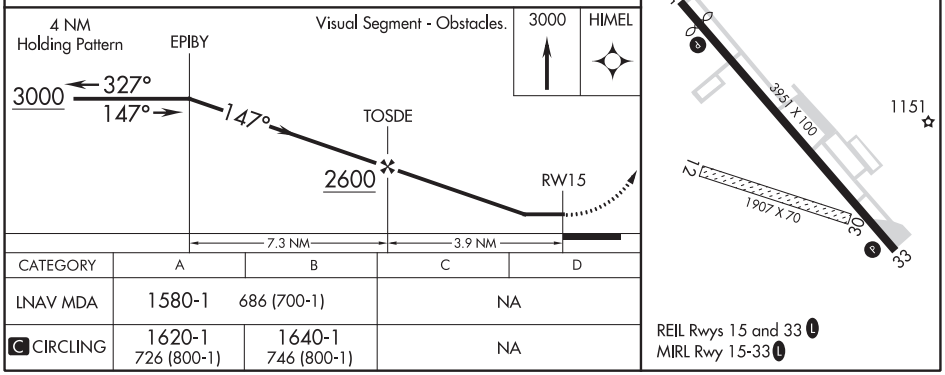
RNP APCH.

Circling NA to Rwys 12 and 30. Procedure NA at night. Rwy 15 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 direct HIMEL and hold, continue climb-in-hold to 3000.

ASOS	CLEVELAND APP CON ★	UNICOM	
121.425	125.5 371.875	122.8 (CTAF)	123.3 L





CATEGORY	A	B	C	D
LNAV MDA	1580-1 686 (700-1)		NA	
C CIRCLING	1620-1 726 (800-1)	1640-1 746 (800-1)	NA	

REIL Rwys 15 and 33 L
MIRL Rwy 15-33 L

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WAAS CH 70343 W33A	APP CRS 327°	Rwy ldg 3634 TDZE 893 Apt Elev 894

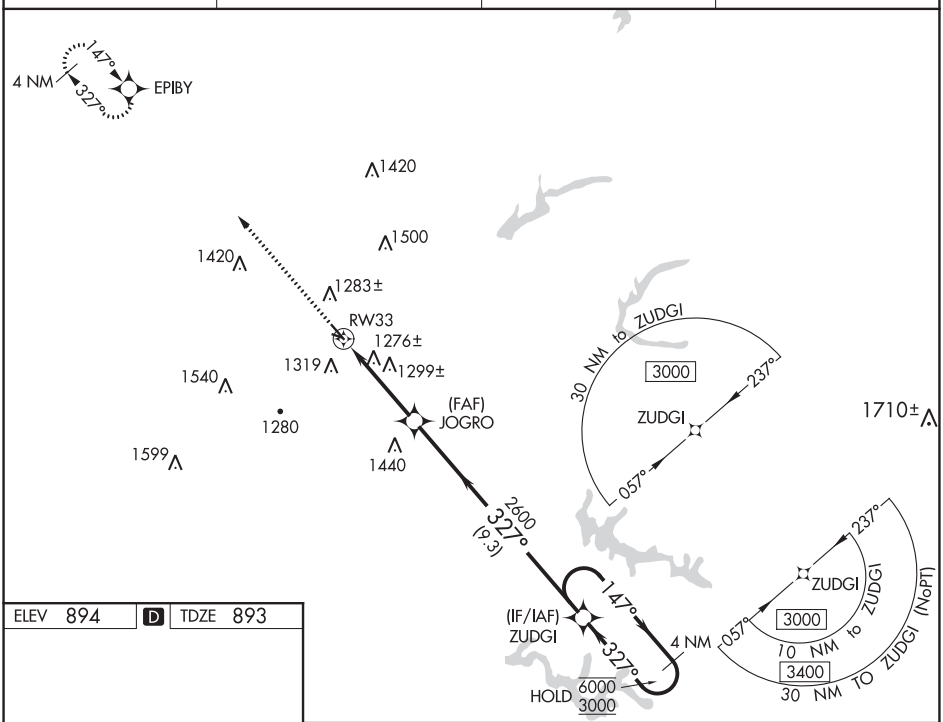
RNAV (GPS) RWY 33
HARRY CLEVER FIELD (PHD)

RNP APCH.

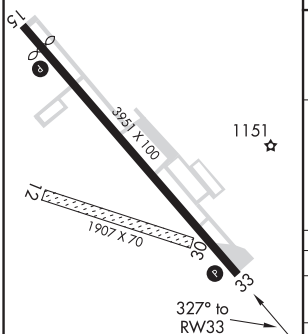
Circling NA to Rwys 12 and 30.
Rwy 33 helicopter visibility reduction below 1 SM NA.
Procedure NA at night.

MISSED APPROACH: Climb to 3000 direct EPIBY and hold.

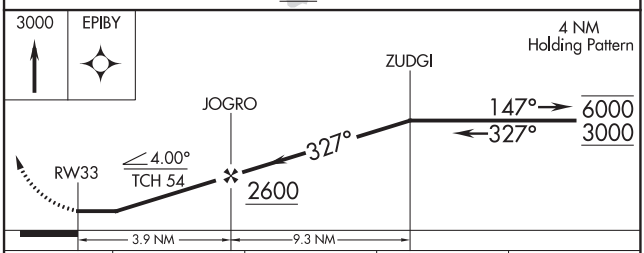
ASOS	CLEVELAND APP CON★	UNICOM	
121.425	125.5 371.875	122.8 (CTAF)	123.3 L



ELEV 894 | D | TDZE 893



REIL Rwys 15 and 33 L
MIRL Rwy 15-33 L



CATEGORY	A	B	C	D
LP MDA	1540-1	647 (700-1)	NA	
LNAV MDA	1560-1	667 (700-1)	NA	
C CIRCLING	1620-1 726 (800-1)	1640-1 746 (800-1)	NA	

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NEW PHILADELPHIA, OHIO — AL-5554 (FAA) — 20310

VOR-A
HARRY CLEVER FIELD (PHD)

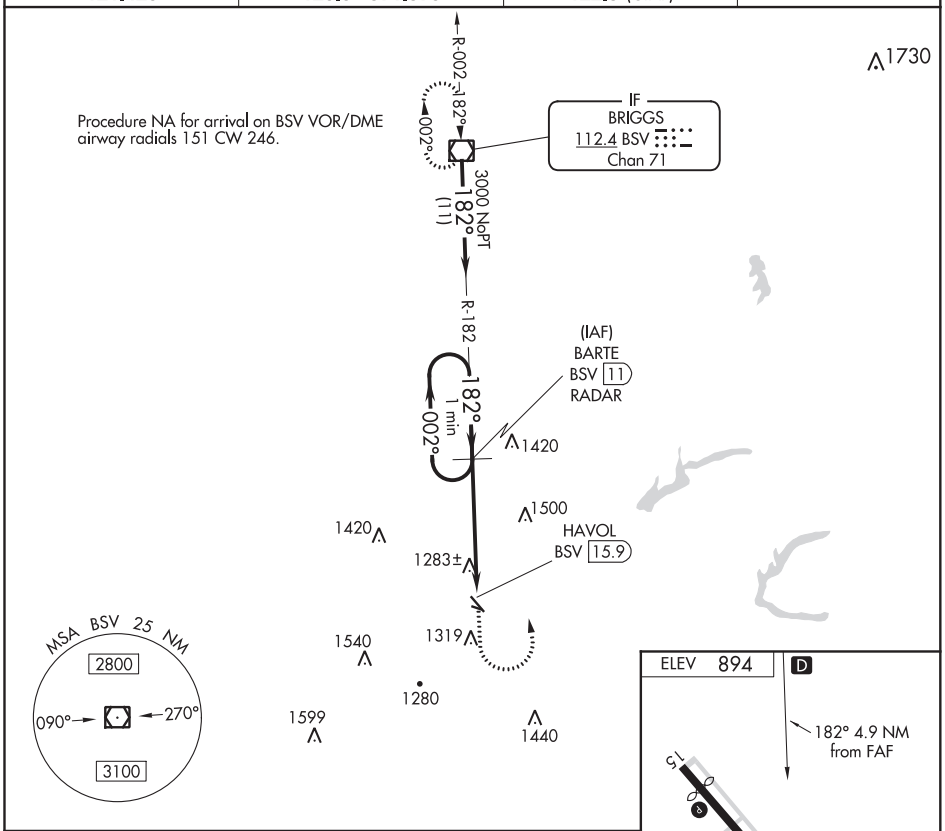
VOR/DME BSV	APP CRS	Rwy ldg	N/A
112.4	182°	TDZE	N/A
Chan 71		Apt Elev	894

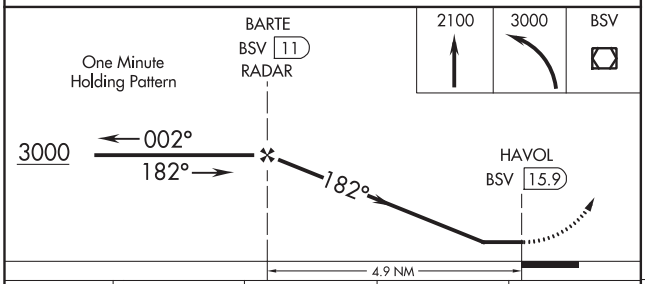
DME or RADAR required.

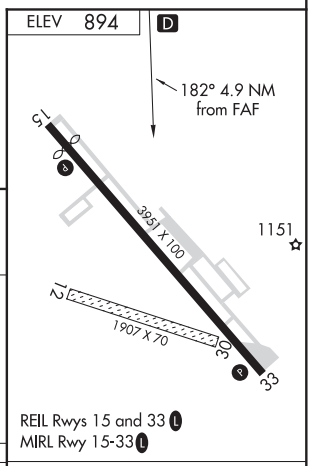
Circling NA to Rwys 12 and 30. Rwy 15, 33 helicopter visibility reduction below 1 SM NA. Procedure NA at night.

MISSED APPROACH: Climb to 2100 then climbing left turn to 3000 direct BSV VOR/DME and hold.

ASOS	CLEVELAND APP CON★	UNICOM	
121.425	125.5 371.875	122.8 (CTAF)	123.3 L







CATEGORY	A	B	C	D
C CIRCLING	1720-1¼	826 (900-1¼)	1720-2½ 826 (900-2½)	NA

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

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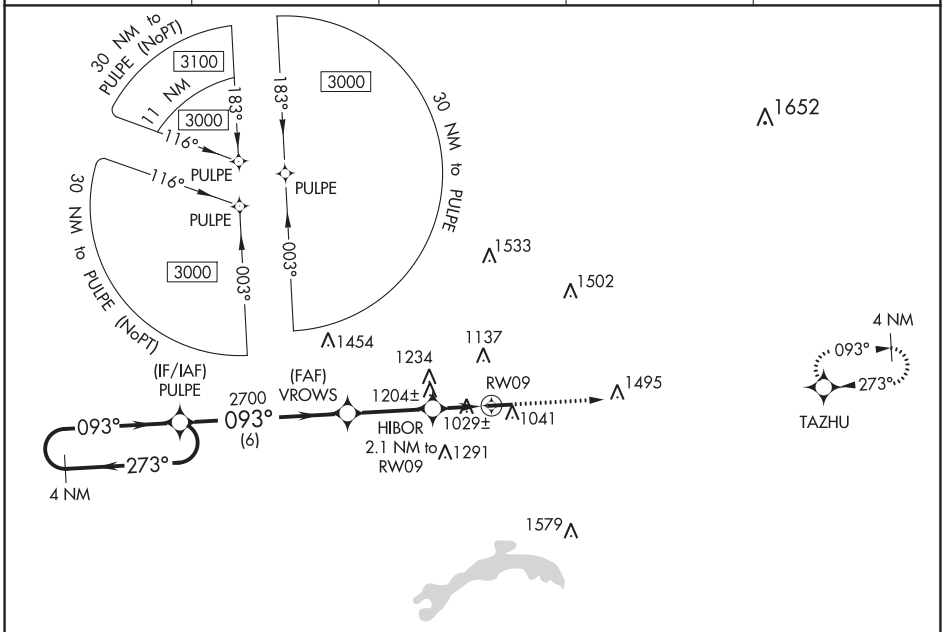
WAAS CH 57939 W09A	APP CRS 093°	Rwy ldg 4192 TDZE 884 Apt Elev 884

RNAV (GPS) RWY 9
NEWARK-HEATH (VTA)

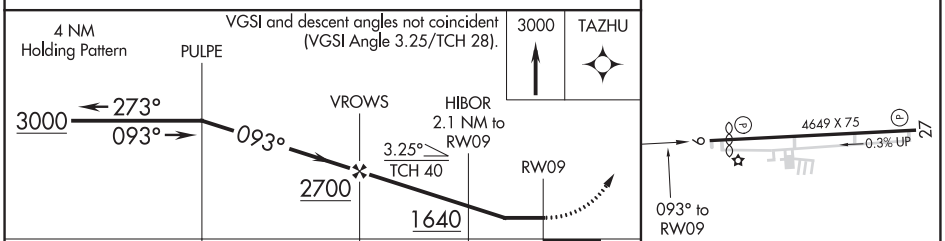
Rwy 9 helicopter visibility reduction below 1 SM NA. DME/DME RNP-0.3 NA.
Straight-in Rwy 9 NA at night, Circling Rwy 9 NA at night.

MISSED APPROACH: Climb to 3000 direct TAZHU and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM	
121.125	125.95 317.775	125.175	122.7 (CTAF)	123.3 L



ELEV 884	TDZE 884



CATEGORY	A	B	C	D
LP MDA	1280-1 396 (400-1)		1280-1⅛ 396 (400-1⅛)	
LNAV MDA	1460-1 576 (600-1)		1460-1⅝ 576 (600-1⅝)	
C CIRCLING	1460-1 576 (600-1)	1480-1 596 (600-1)	1760-2½ 876 (900-2½)	1760-2¾ 876 (900-2¾)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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NEWARK, OHIO | AL-5536 (FAA) | 19171

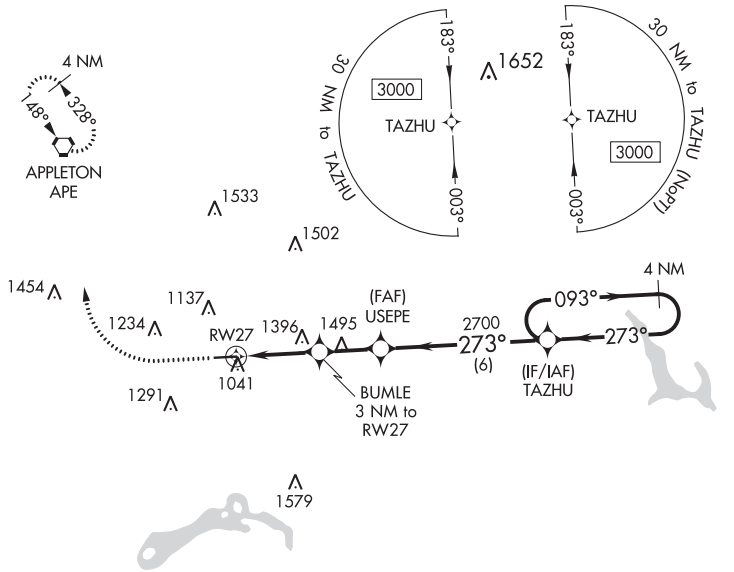
WAAS CH 97439 W27A	APP CRS 273°	Rwy ldg 4649 TDZE 879 Apt Elev 884

RNAV (GPS) RWY 27
NEWARK-HEATH (VTA)

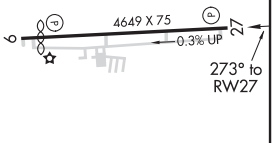
Circling Rwy 9 NA at night. Rwy 27 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

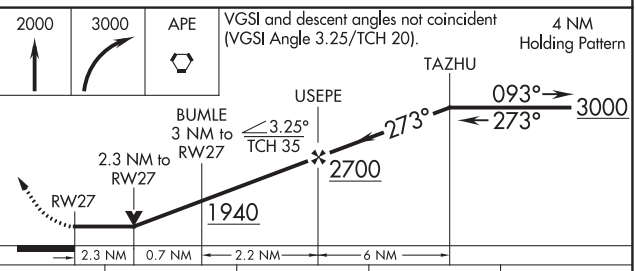
MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct APE VORTAC and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM	
121.125	125.95 317.775	125.175	122.7 (CTAF)	123.3 L



ELEV 884	TDZE 879





CATEGORY	A	B	C	D
LP MDA	1680-1 801 (800-1)	1680-1¼ 801 (800-1¼)	1680-2½ 801 (800-2½)	
LNAV MDA	1700-1 821 (900-1)	1700-1¼ 821 (900-1¼)	1700-2½ 821 (900-2½)	
C CIRCLING	1700-1¼ 816 (900-1¼)		1760-2½ 876 (900-2½)	1760-2¾ 876 (900-2¾)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

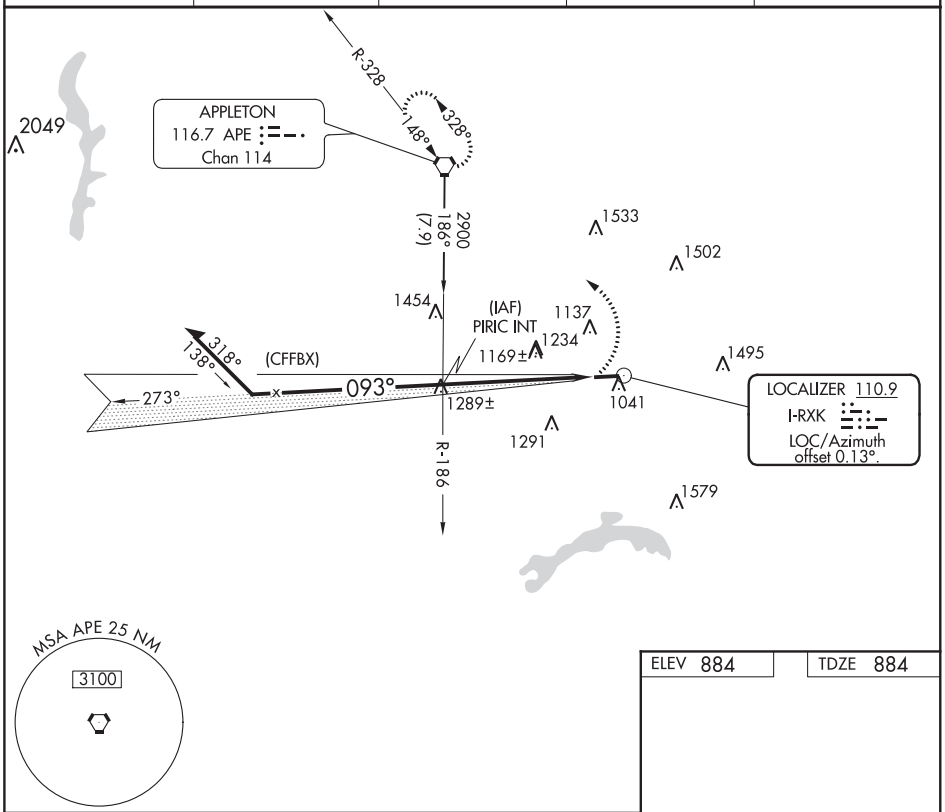
LOC I-RXK	APP CRS	Rwy ldg	4192
110.9	093°	TDZE	884
		Apt Elev	884

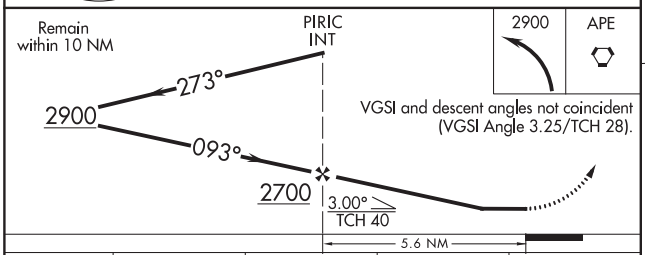
LOC RWY 9
NEWARK-HEATH (VTA)

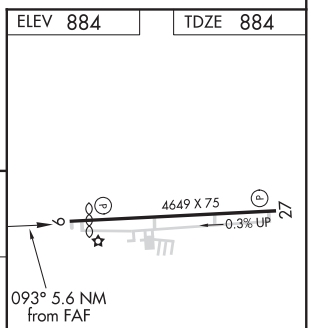
T NA Rwy 9 helicopter visibility reduction below 1 SM NA. Straight-in and Circling Rwy 9 NA at night.

MISSED APPROACH: Climbing left turn to 2900 direct APE VORTAC and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM	
121.125	125.95 317.775	125.175	122.7 (CTAF)	123.3 L







CATEGORY	A	B	C	D
S-9	1420-1	536 (600-1)	1420-1½	536 (600-1½)
C CIRCLING	1480-1	596 (600-1)	1760-2½ 876 (900-2½)	1760-2¾ 876 (900-2¾)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

NEWARK, OHIO — AL-5536 (FAA) — 20366

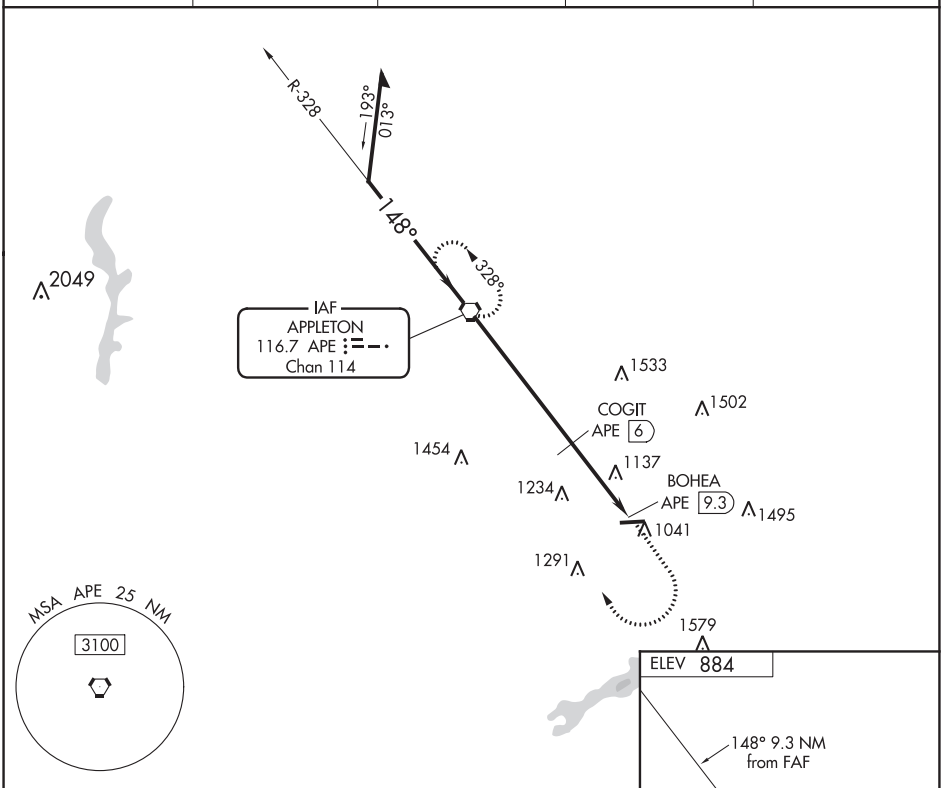
VORTAC APE 116.7 Chan 114	APP CRS 148°	Rwy ldg N/A TDZE N/A Apt Elev 884

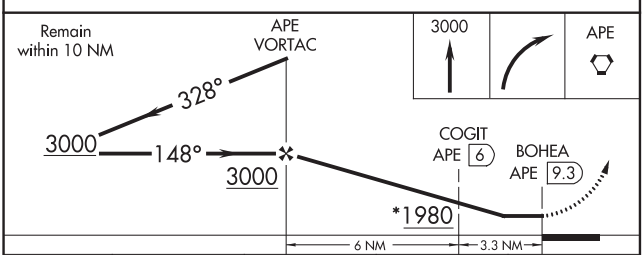
VOR-A
NEWARK-HEATH (VTA)

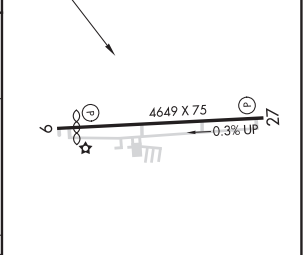
Circling Rwy 9 NA at night.

MISSED APPROACH: Climb to 3000 then right turn direct APE VORTAC and hold.

ASOS	COLUMBUS APP CON	CLNC DEL	UNICOM	
121.125	125.95 317.775	125.175	122.7 (CTAF)	123.3 L







CATEGORY	A	B	C	D
C CIRCLING	1980-1¼ 1096 (1100-1¼)	1980-1½ 1096 (1100-1½)	1980-3	1096 (1100-3)
COGIT FIX MINIMUMS				
C CIRCLING	1620-1	736 (800-1)	1700-2½ 816 (900-2½)	1760-2¾ 876 (900-2¾)

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

FAF to MAP 9.3 NM					
Knots	60	90	120	150	180
Min:Sec	9:18	6:12	4:39	3:43	3:06

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 70713 W05A	APP CRS 050°	Rwy ldg 5002 TDZE 757 Apt Elev 757

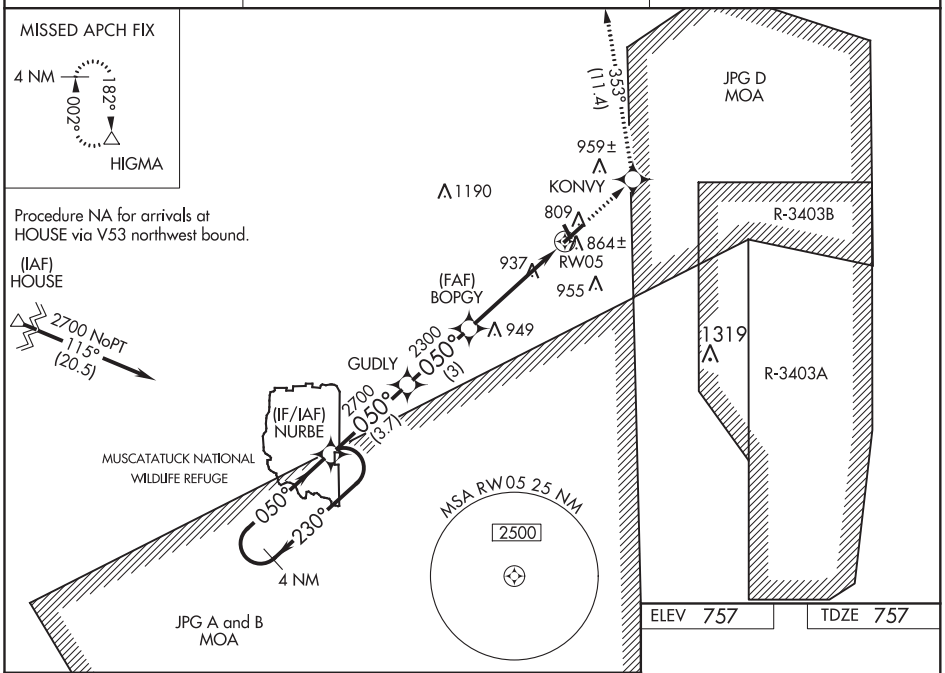
RNAV (GPS) RWY 5
NORTH VERNON (OVO)

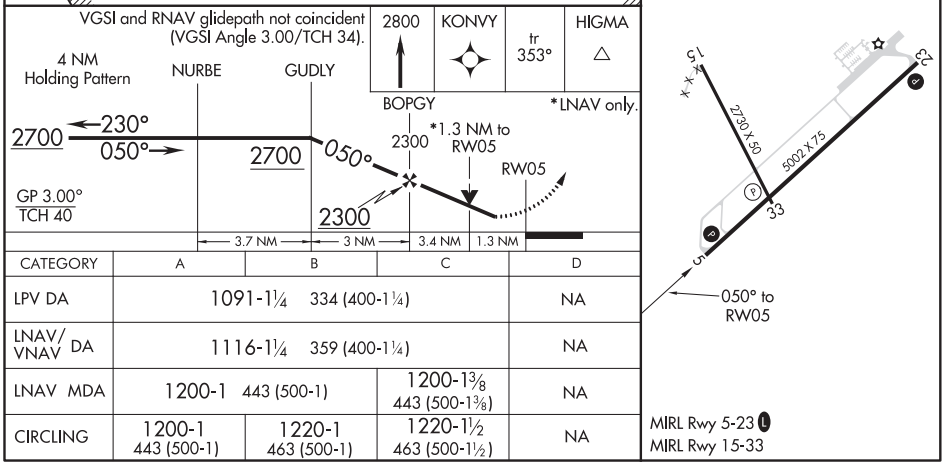
T
NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Shelbyville altimeter setting and increase all DA 84 feet, all MDA 100 feet. Increase LPV all Cats visiblity ⅛ mile, LNAV/VNAV all Cats visibility ¼ mile, LNAV Cat C visibility ¼ mile and Circling Cat C ⅛ mile. VDP and Baro-VNAV NA when using Shelbyville alimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2800 direct KONVY and on track 353° to HIGMA and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
120.625	124.775 269.45	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1091-1¼ 334 (400-1¼)			NA
LNAV/VNAV DA	1116-1¼ 359 (400-1¼)			NA
LNAV MDA	1200-1 443 (500-1)		1200-1⅜ 443 (500-1⅜)	NA
CIRCLING	1200-1 443 (500-1)	1220-1 463 (500-1)	1220-1½ 463 (500-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

NORTH VERNON, INDIANA | AL-6124 (FAA) | 19171

RNAV (GPS) Y RWY 23
NORTH VERNON (OVO)

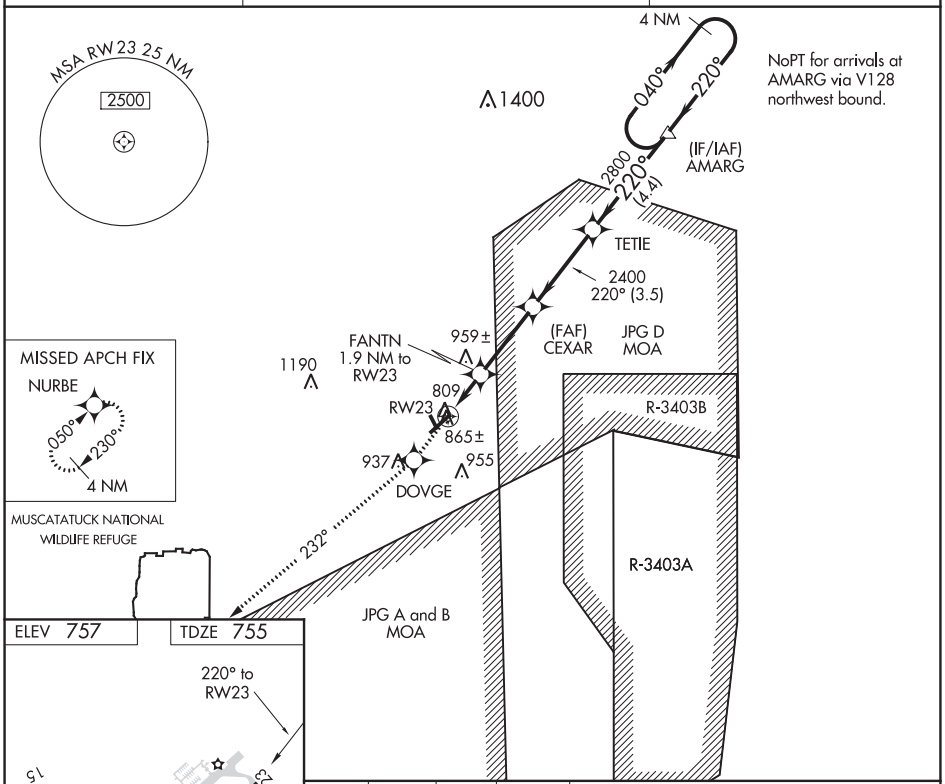
APP CRS	Rwy ldg	5002
220°	TDZE	755
	Apt Elev	757

T
NA

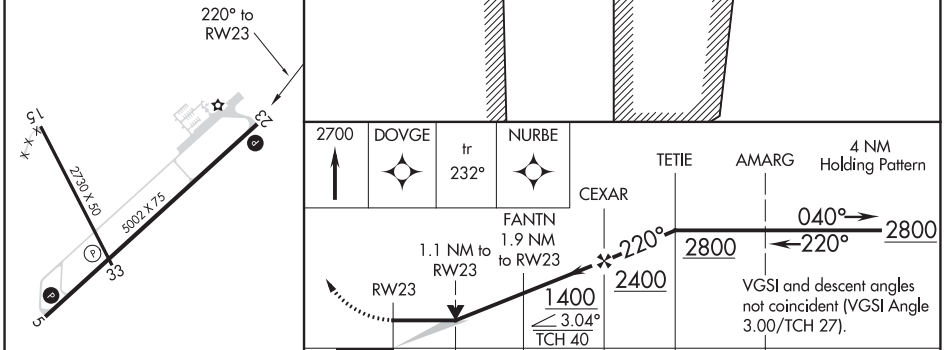
DME/DME RNP-0.3 NA.
When local altimeter setting not received, use Shelbyville altimeter setting and increase all MDA 100 feet, increase LNAV Cat C visibility ¼ mile.
VDP NA when using Shelbyville altimeter setting.

MISSED APPROACH:
Climb to 2700 direct DOVGE and via track 232° to NURBE and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
120.625	124.775 269.45	122.7 (CTAF) L



ELEV 757 | TDZE 755



CATEGORY	A	B	C	D
LNAV MDA	1120-1 365 (400-1)			NA
CIRCLING	1180-1 423 (500-1)	1220-1 463 (500-1)	1220-1½ 463 (500-1½)	NA

MIRL Rwy 5-23 L
MIRL Rwy 15-33

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 63113 W23A	APP CRS 230°	Rwy ldg 5002 TDZE 755 Apt Elev 757

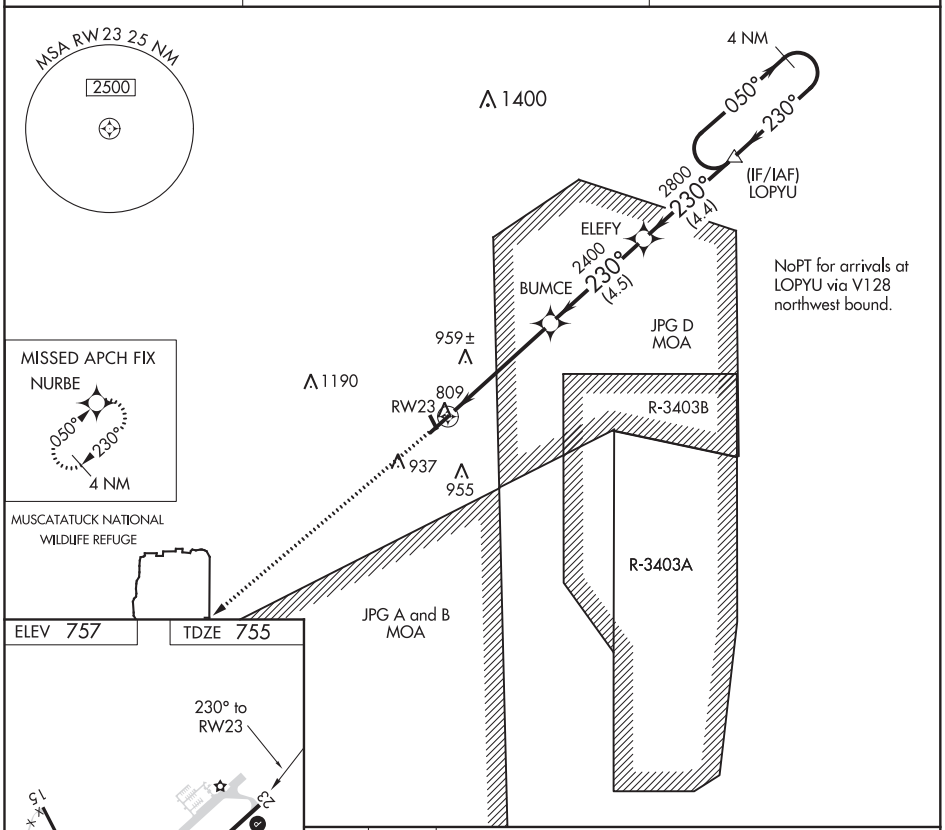
RNAV (GPS) Z RWY 23
NORTH VERNON (OVO)

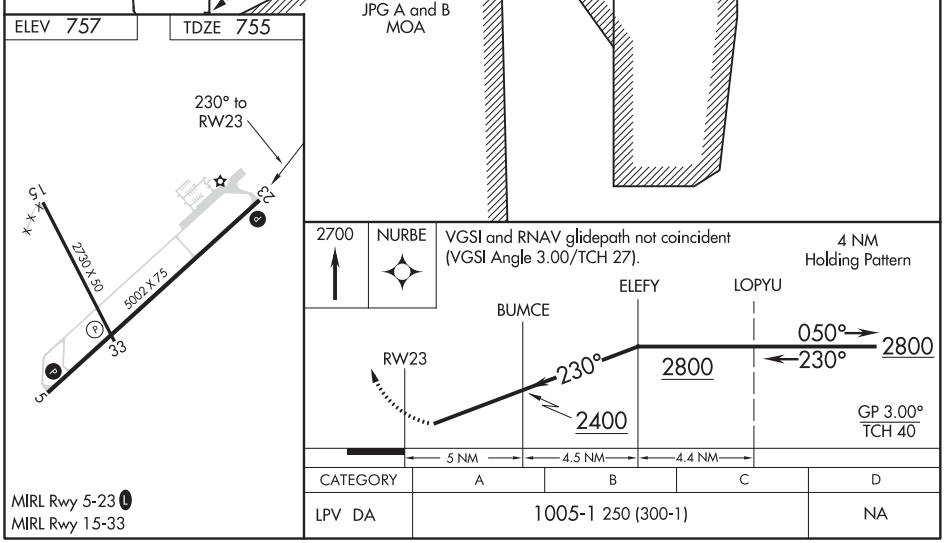
NA

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Shelbyville altimeter setting and increase all DA 84 feet and all visibility ¼ mile.

MISSED APPROACH: Climb to 2700 direct NURBE and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
120.625	124.775 269.45	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1005-1 250 (300-1)			NA

MIRL Rwy 5-23 L
MIRL Rwy 15-33

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

NORWALK, OHIO AL-6640 (FAA) 20310

RNAV (GPS) RWY 28
NORWALK-HURON COUNTY (5A1)

WAAS CH 86835 W28A	APP CRS 276°	Rwy ldg 3541 TDZE 851 Apt Elev 853

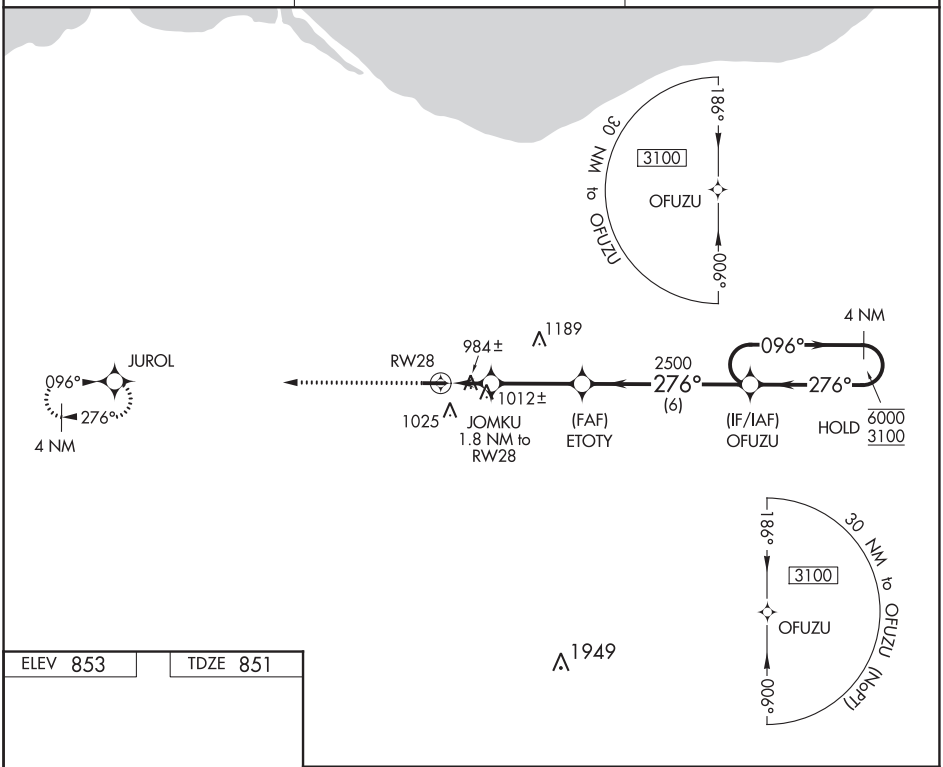
RNP APCH.

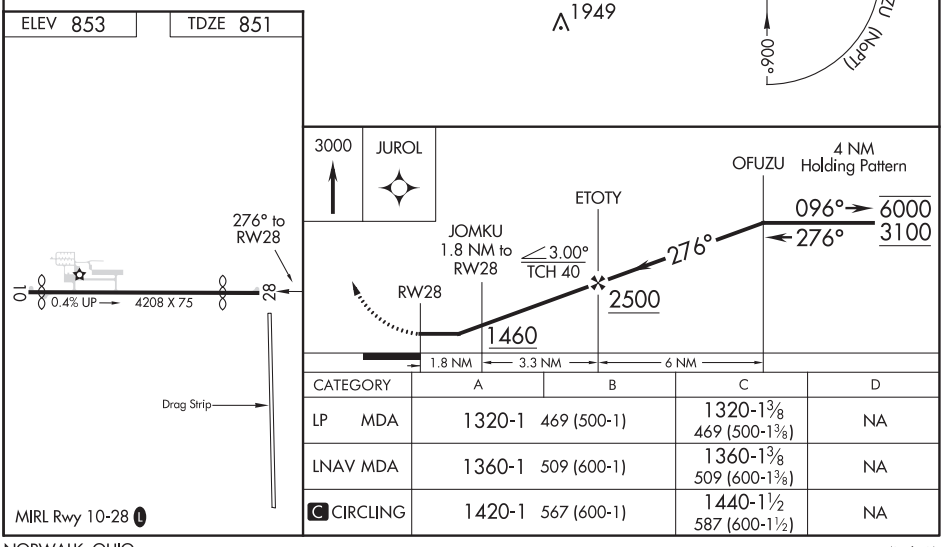
T
A NA

Rwy 28 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Use Cleveland-Hopkins Intl altimeter setting.

MISSED APPROACH: Climb to 3000 direct JUROL and hold.

CLE ASOS	CLEVELAND APP CON ★	UNICOM
127.85	124.2 360.65	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1320-1 469 (500-1)		1320-1⅜ 469 (500-1⅜)	NA
LNAV MDA	1360-1 509 (600-1)		1360-1⅜ 509 (600-1⅜)	NA
C CIRCLING	1420-1 567 (600-1)		1440-1½ 587 (600-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86514 W09A	APP CRS 095°	Rwy ldg 4504 TDZE 760 Apt Elev 763

RNAV (GPS) RWY 9
PUTNAM COUNTY (OWX)

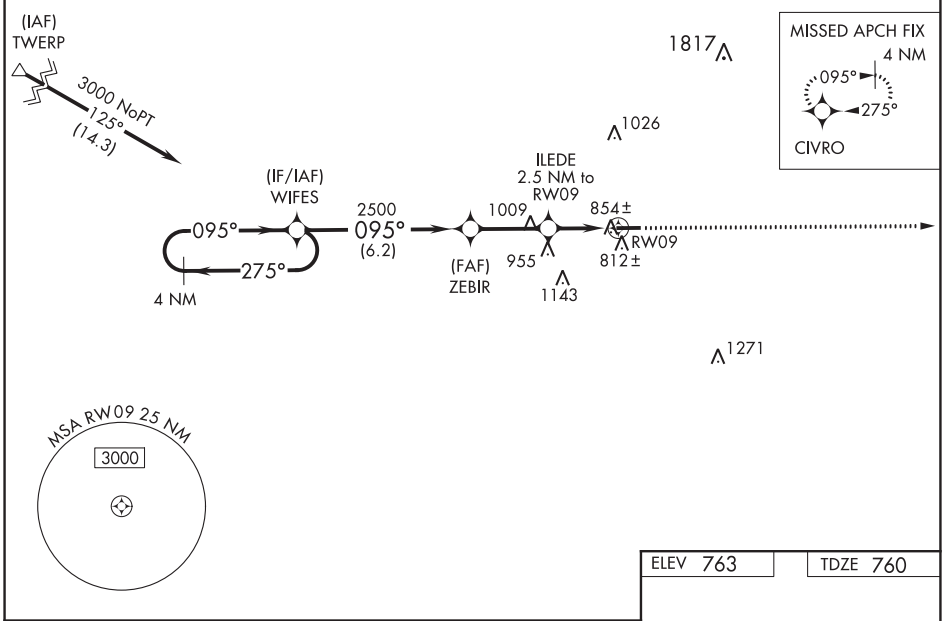
RNP APCH.

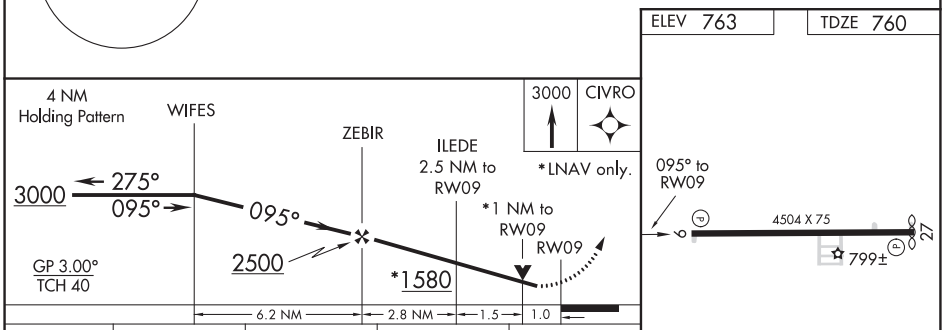
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 9 helicopter visibility reduction below ¾ SM NA. Baro-VNAV and VDP NA when using Findlay altimeter setting. When local altimeter setting not received, use Findlay altimeter setting and increase all DAs/MDAs 40 feet.

MISSED APPROACH: Climb to 3000 direct CIVRO and hold.

AWOS-3	TOLEDO APP CON	UNICOM
120.525	120.8 317.55	122.7 (CTAF) L

Procedure NA for arrivals at TWERP on V8-422 westbound.





CATEGORY	A	B	C	D
LPV DA	1048-1 288 (300-1)		NA	
LNAV/VNAV DA	1147-1½ 387 (400-1½)		NA	
LNAV MDA	1120-1 360 (400-1)		NA	
CIRCLING	1200-1 437 (500-1)	1220-1 457 (500-1)	NA	

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

OTTAWA, OHIO

AL-6287 (FAA)

18144

RNAV (GPS) RWY 27
PUTNAM COUNTY (OWX)

WAAS CH 97614 W27A	APP CRS 275°	Rwy ldg 4477 TDZE 763 Apt Elev 763

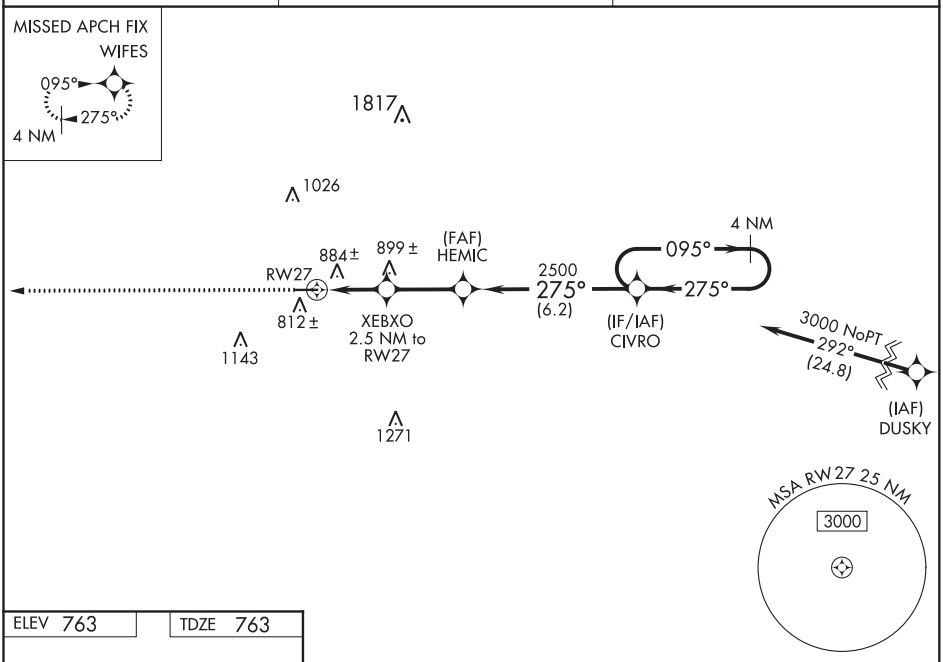
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Baro-VNAV and VDP NA when using Findlay altimeter setting. Rwy 27 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Findlay altimeter setting and increase all DAs/MDAs 40 feet.

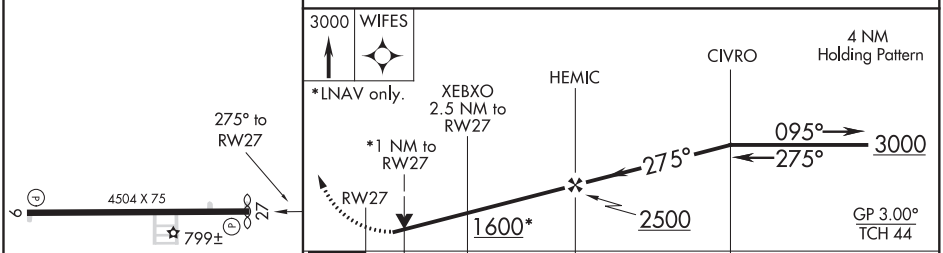
NA

MISSED APPROACH: Climb to 3000 direct WIFES and hold.

AWOS-3	TOLEDO APP CON	UNICOM
120.525	120.8 317.55	122.7 (CTAF) L



ELEV 763 | TDZE 763



CATEGORY	A	B	C	D
LPV DA	1048-1 285 (300-1)		NA	
LNAV/VNAV DA	1185-1½ 422 (500-1½)		NA	
LNAV MDA	1140-1 377 (400-1)		NA	
CIRCLING	1200-1 437 (500-1)	1220-1 457 (500-1)	NA	

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VORTAC FBC 108.2 Chan 19	APP CRS 298°	Rwy ldg 4477 TDZE 763 Apt Elev 763

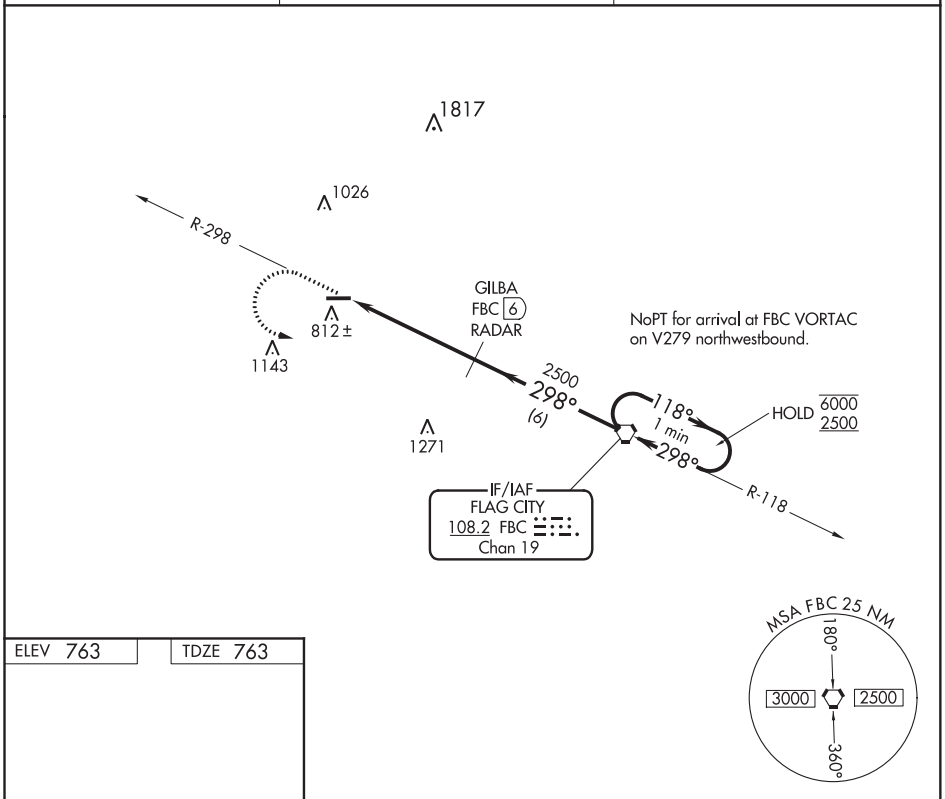
VOR RWY 27
PUTNAM COUNTY (OWX)

RADAR or DME required.

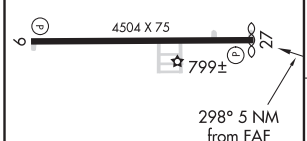
NA Rwy 27 helicopter visibility reduction below 1 SM NA. Straight-in, Circling Rwy 27 NA at night.

MISSED APPROACH: Climb to 2500 on FBC VORTAC R-298 then left turn direct FBC VORTAC and hold.

AWOS-3	TOLEDO APP CON	UNICOM
120.525	120.8 317.55	122.7 (CTAF) L



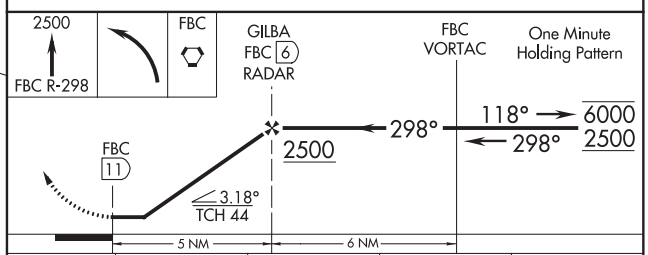
ELEV 763 TDZE 763



298° 5 NM from FAF

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D
S-27	1220-1 457 (500-1)		NA	
CIRCLING	1220-1 457 (500-1)		NA	

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

OXFORD, OHIO | AL-5429 (FAA) | 20086

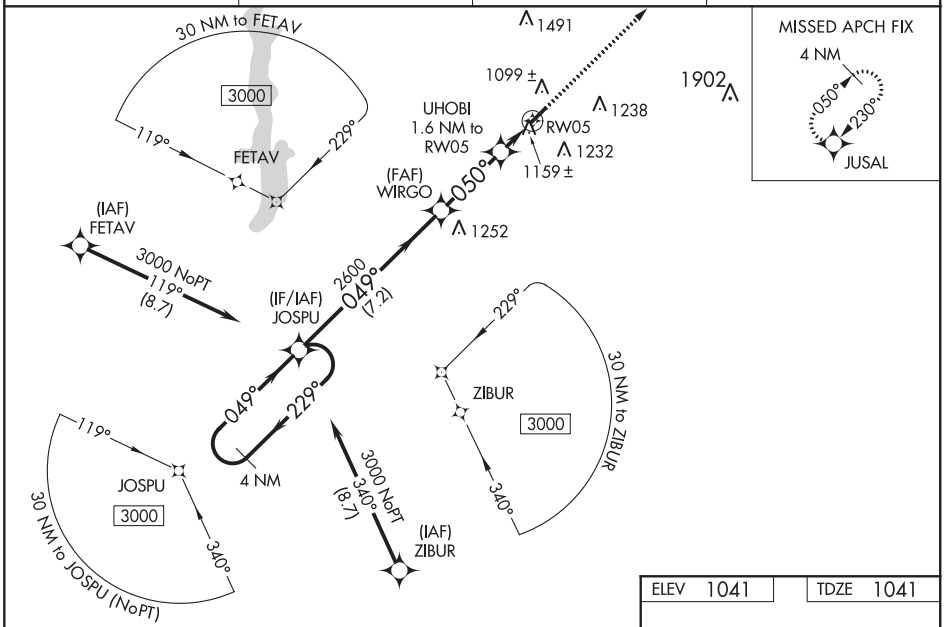
RNAV (GPS) RWY 5
MIAMI UNIVERSITY (OXD)

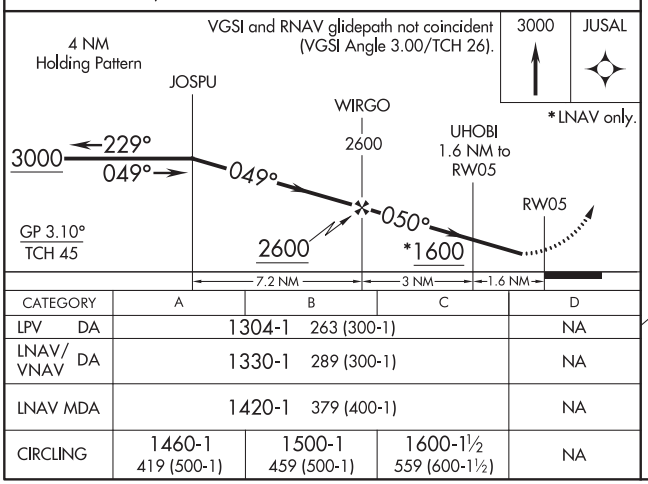
WAAS CH 49228 W05A	APP CRS 050°	Rwy ldg 3741 TDZE 1041 Apt Elev 1041

T A NA When VGSI inop, Circling Rwy 23 NA at night. Baro-VNAV NA when using Covington altimeter setting. When VGSI inop, Straight-in/Circling Rwy 5 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Covington altimeter setting and increase all DA 84 feet and all MDA 100 feet, increase LPV all Cats visibility ⅛ mile, increase LNAV/VNAV all Cats visibility ¼ mile, increase LNAV Cat C visibility ⅜ mile and increase Circling Cat C visibility ¼ mile.

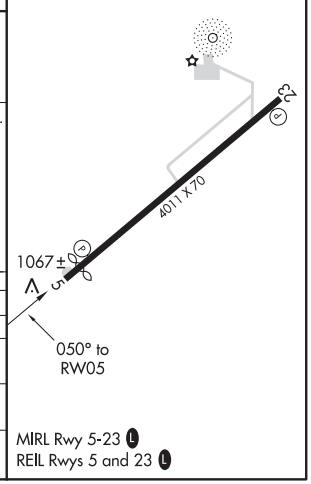
MISSED APPROACH: Climb to 3000 direct JUSAL and hold.

AWOS-3PT	CINCINNATI APP CON	UNICOM	
118.625	121.0 254.25	122.8 (CTAF)	122.9 L





CATEGORY	A	B	C	D
LPV DA	1304-1 263 (300-1)			NA
LNAV/VNAV DA	1330-1 289 (300-1)			NA
LNAV MDA	1420-1 379 (400-1)			NA
CIRCLING	1460-1 419 (500-1)	1500-1 459 (500-1)	1600-1½ 559 (600-1½)	NA



MIRL Rwy 5-23 L
REIL Rwys 5 and 23 L

OXFORD, OHIO
Orig-A 02APR15

39°30'N-84°47'W

MIAMI UNIVERSITY (OXD)
RNAV (GPS) RWY 5

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 56528 W23A	APP CRS 230°	Rwy ldg 3741 TDZE 1041 Apt Elev 1041

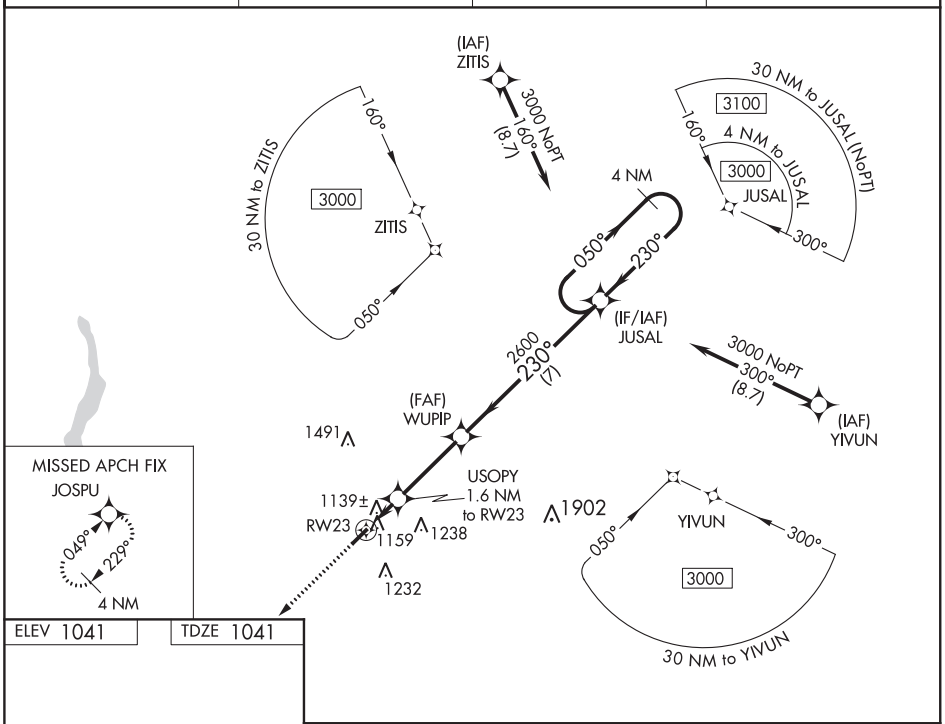
RNAV (GPS) RWY 23
MIAMI UNIVERSITY (OXD)

When VGSI inop, Circling Rwy 5 NA at night. When VGSI inop, Straight-in/Circling Rwy 23 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Covington altimeter setting and increase all MDA 100 feet, increase LP Cat C visibility ⅜ mile, increase LNAV and Circling Cat C visibility ¼ mile.

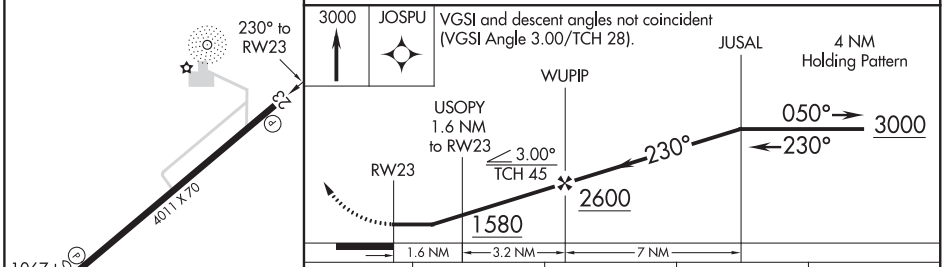
NA

MISSED APPROACH: Climb to 3000 direct JOSPU and hold.

AWOS-3PT	CINCINNATI APP CON	UNICOM	
118.625	121.0 254.25	122.8 (CTAF)	122.9 L



ELEV 1041 TDZE 1041



CATEGORY	A	B	C	D
LP MDA	1400-1 359 (400-1)			NA
LNAV MDA	1420-1 379 (400-1)		1420-1⅛ 379 (400-1⅛)	NA
CIRCLING	1460-1 419 (500-1)	1500-1 459 (500-1)	1600-1½ 559 (600-1½)	NA

MIRL Rwy 5-23 L
REIL Rwys 5 and 23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

PAINESVILLE, OHIO | AL-5432 (FAA) | 20254

VOR or GPS-A
CONCORD AIRPARK (2G1)

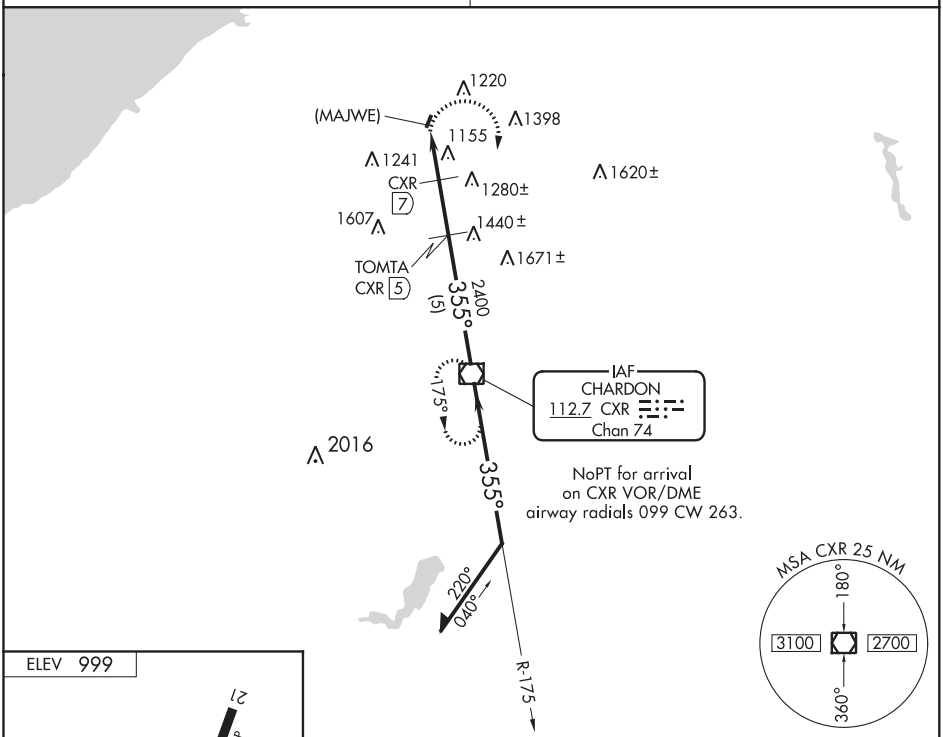
VOR/DME CXR	APP CRS	Rwy ldg	N/A
112.7 Chan 74	355°	TDZE	N/A
		Apt Elev	999

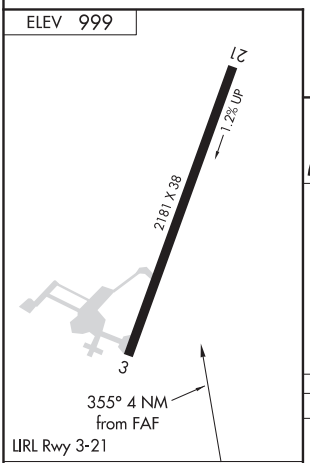
NA

Procedure not authorized at night.
Use Cleveland-Hopkins altimeter setting.
DME required.

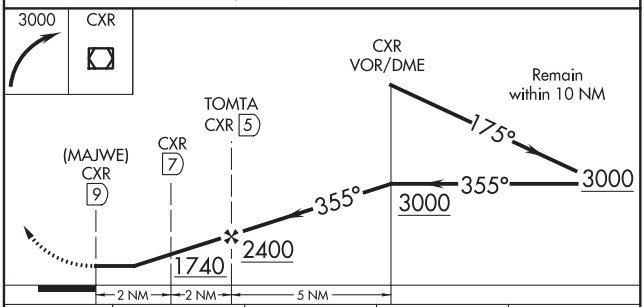
MISSED APPROACH: Climbing right turn to 3000 direct CXR VOR/DME and hold.

CLEVELAND APP CON	UNICOM
125.35 346.325	122.8 (CTAF)





FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20



CATEGORY	A	B	C	D
CIRCLING	1740-1 741 (800-1)	1740-1¼ 741 (800-1¼)	1740-2¼ 741 (800-2¼)	NA
DME MINIMUMS				
CIRCLING	1640-1 641 (700-1)		1640-1¾ 641 (700-1¾)	NA

PAINESVILLE, OHIO
Orig-B 18NOV10

41°40′N - 81°12′W

CONCORD AIRPARK (2G1)
VOR or GPS-A

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 1
PERU MUNI (I76)

APP CRS	Rwy ldg	4400
009°	TDZE	777
	Apt Elev	779

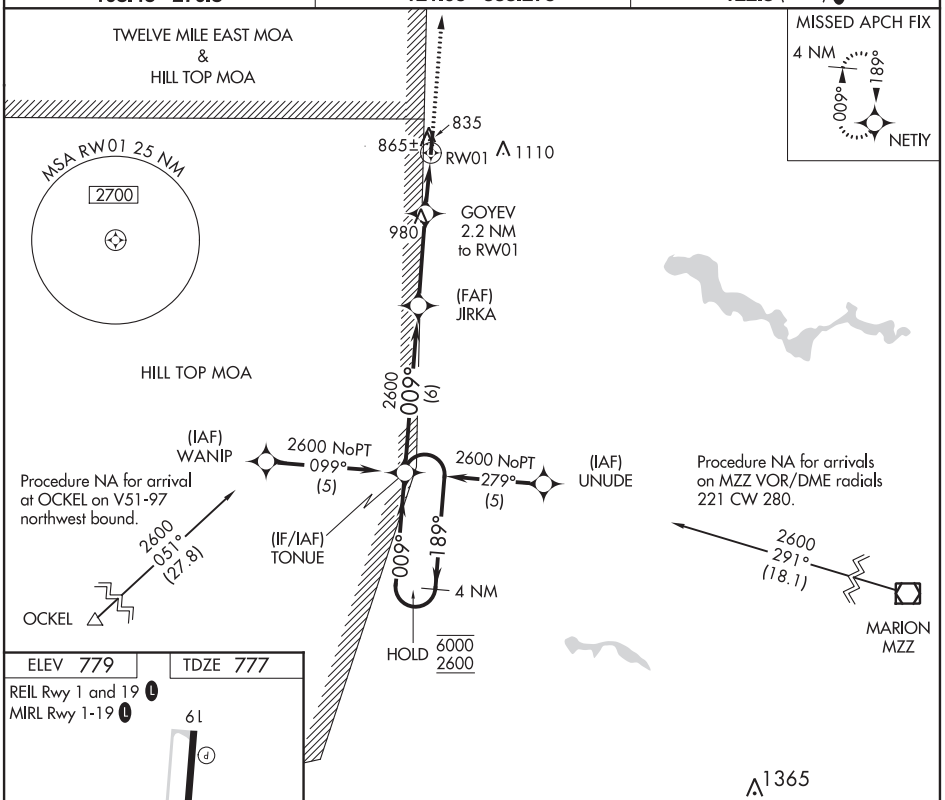
RNP APCH.

Rwy 1 helicopter visibility reduction below 1 SM NA. Use Grissom ARB altimeter setting; when not received, use Logansport altimeter setting.

NA

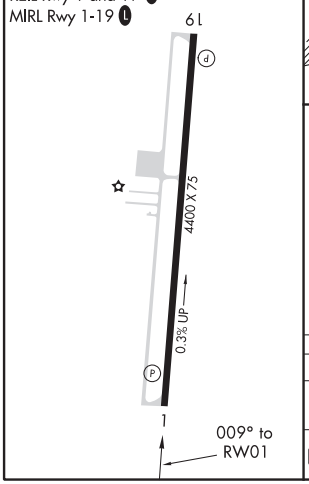
MISSED APPROACH: Climb to 2600 direct NETIY and hold.

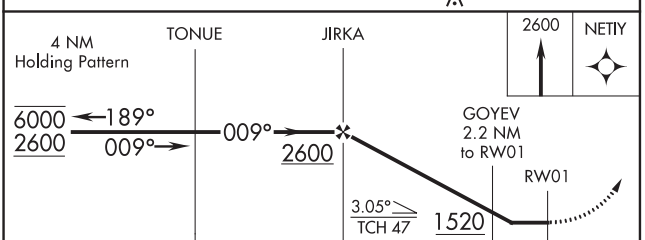
GUS ASOS	GRISSOM APP CON ★	UNICOM
108.45 270.8	121.05 338.275	122.8 (CTAF) L



ELEV 779 | TDZE 777

REIL Rwy 1 and 19 L
MIRL Rwy 1-19 L





CATEGORY	A	B	C	D
LNAV MDA	1240-1 463 (500-1)		1240-1⅜ 463 (500-1⅜)	1240-1½ 463 (500-1½)
C CIRCLING	1300-1 521 (600-1)		1500-2 721 (800-2)	1500-2¼ 721 (800-2¼)

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PERU, INDIANA | AL-6127 (FAA) | 20030

RNAV (GPS) RWY 19
PERU MUNI (I76)

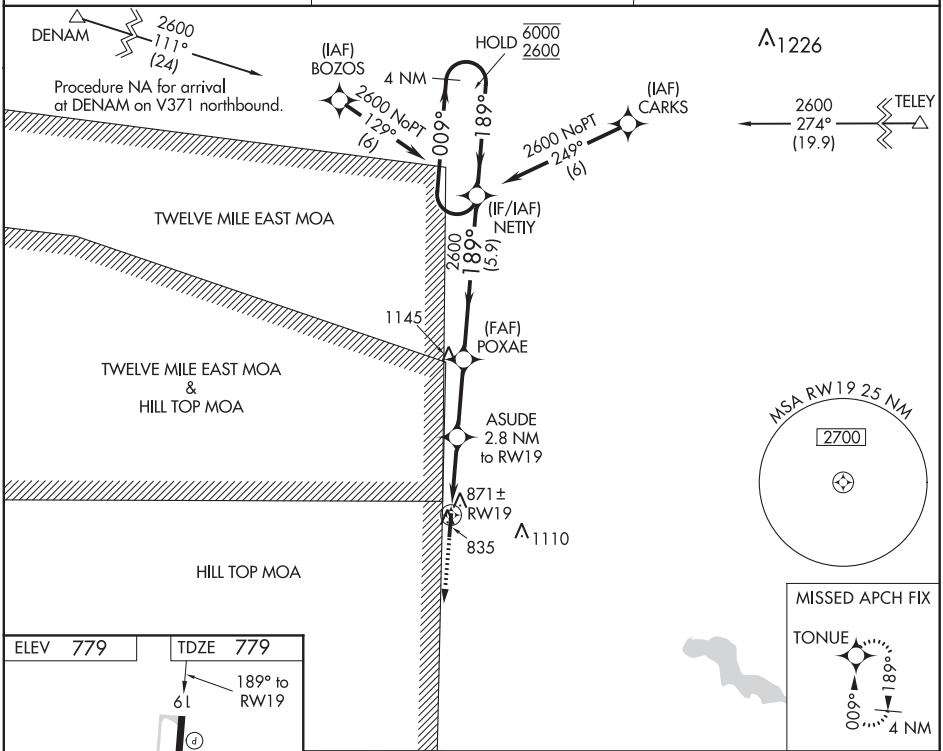
WAAS CH 50438 W19A	APP CRS 189°	Rwy ldg 4400 TDZE 779 Apt Elev 779

RNP APCH.

Rwy 19 Helicopter visibility reduction below ¾ SM NA.
Baro-VNAV NA. Use Grissom ARB altimeter setting; when not received use Logansport altimeter setting and increase all DAs 8 feet.

MISSED APPROACH: Climb to 3000 direct TONUE and hold.

GUS ASOS	GRISSOM APP CON ★	UNICOM
108.45 270.8	121.05 338.275	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	1053-1 274 (300-1)			
LNAV/VNAV DA	1074-1 295 (300-1)			
LNAV MDA	1160-1 381 (400-1)		1160-1⅛ 381 (400-1⅛)	
C CIRCLING	1280-1 501 (600-1)		1500-2 721 (800-2)	1500-2¼ 721 (800-2¼)

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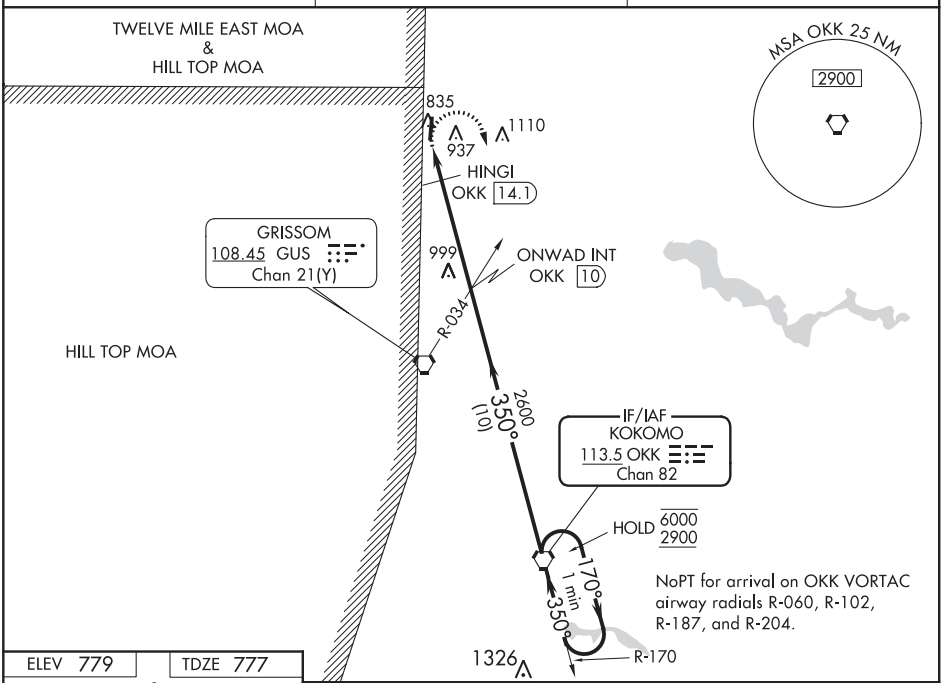
VORTAC OKK	APP CRS	Rwy ldg	4400
113.5	350°	TDZE	777
Chan 82		Apt Elev	779

VOR RWY 1
PERU MUNI (I76)

V A NA — Rwy 1 helicopter visibility reduction below 1 SM NA. Use Grissom ARB altimeter setting; when not received, use Logansport altimeter setting.

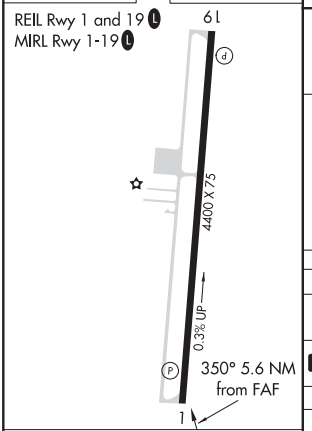
MISSED APPROACH: Climb to 1500 then climbing right turn to 2600 direct OKK VORTAC and hold.

GUS ASOS	GRISSOM APP CON *	UNICOM
108.45 270.8	121.05 338.275	122.8 (CTAF) L

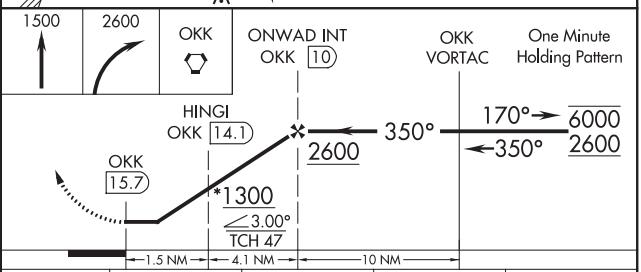


ELEV 779 | TDZE 777

REIL Rwy 1 and 19 L
MIRL Rwy 1-19 L



FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52



CATEGORY	A	B	C	D
S-1	1300-1 523 (600-1)		1300-1½ 523 (600-1½)	1300-1¾ 523 (600-1¾)
C CIRCLING	1300-1 521 (600-1)		1500-2 721 (800-2)	1500-2 ¼ 721 (800-2¼)
HINGI DME FIX MINIMUMS				
S-1	1240-1 463 (500-1)		1240-1⅜ 463 (500-1⅜)	1240-1½ 463 (500-1½)
C CIRCLING	1280-1 501 (600-1)		1500-2 721 (800-2)	1500-2 ¼ 721 (800-2¼)

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EC-2, 25 FEB 2021 to 22 APR 2021

PIQUA, OHIO | AL-5022 (FAA) | 20086

APP CRS	Rwy ldg	3998
081°	TDZE	993
	Apt Elev	993

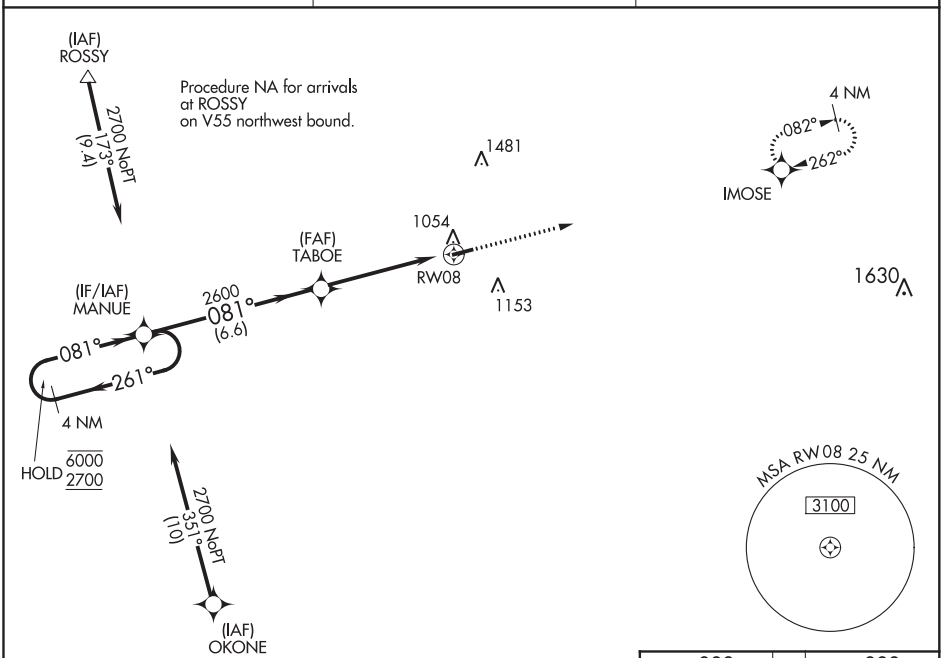
RNAV (GPS) RWY 8
PIQUA AIRPORT-HARTZELL FIELD (I17)

RNP APCH.

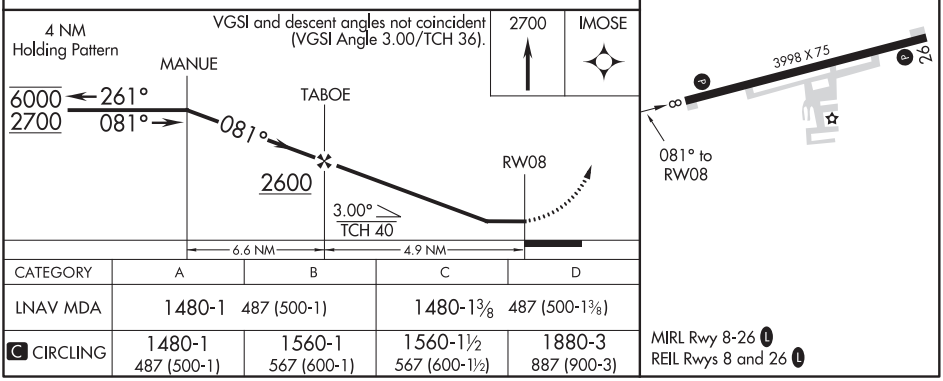
T A NA Use James M Cox Dayton Intl altimeter setting. Rwy 8 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 direct IMOSE and hold.

DAY ASOS	COLUMBUS APP CON	UNICOM
125.8	118.425 294.5 352.05	123.0 (CTAF) L



ELEV 993	TDZE 993



CATEGORY	A	B	C	D
LNAV MDA	1480-1 487 (500-1)		1480-1⅜ 487 (500-1⅜)	
C CIRCLING	1480-1 487 (500-1)	1560-1 567 (600-1)	1560-1½ 567 (600-1½)	1880-3 887 (900-3)

MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3998
262°	TDZE	986
	Apt Elev	993

RNAV (GPS) RWY 26
PIQUA AIRPORT-HARTZELL FIELD (I17)

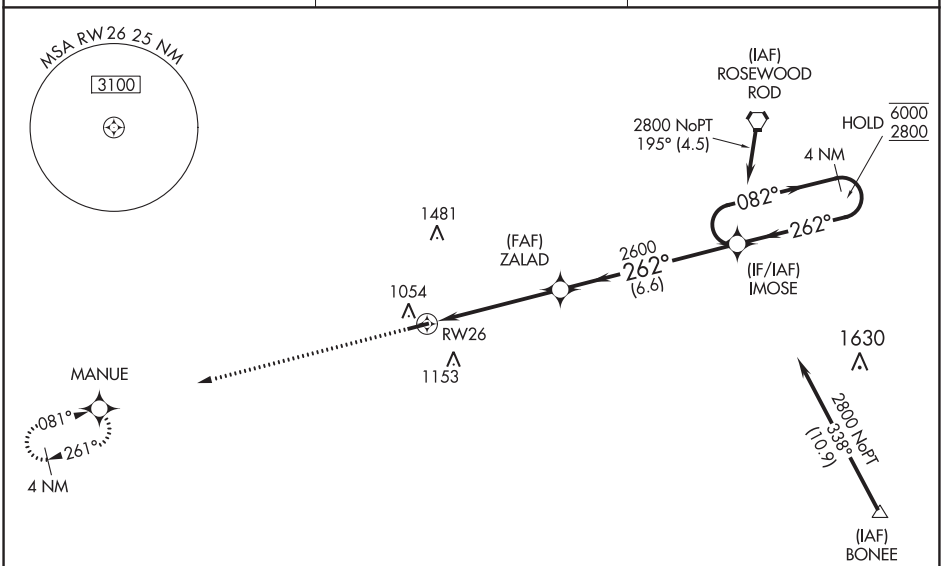
RNP APCH.

T
A NA

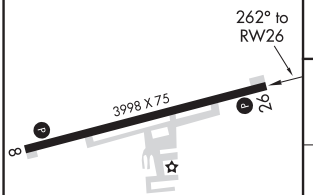
Use James M Cox Dayton Intl altimeter setting.

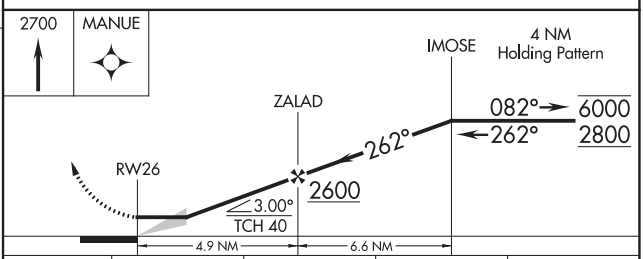
MISSED APPROACH: Climb to 2700 direct MANUE and hold.

DAY ASOS	COLUMBUS APP CON	UNICOM
125.8	118.425 294.5 352.05	123.0 (CTAF) L



ELEV 993 | TDZE 986





CATEGORY	A	B	C	D
LNAV MDA	1500-1 514 (600-1)		1500-1⅜ 514 (600-1⅜)	
C CIRCLING	1500-1 507 (600-1)	1560-1 567 (600-1)	1560-1½ 567 (600-1½)	1880-3 887 (900-3)

MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L

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EC-2, 25 FEB 2021 to 22 APR 2021

PIQUA, OHIO AL-5022 (FAA) 20086

VOR RWY 26
PIQUA AIRPORT-HARTZELL FIELD (I17)

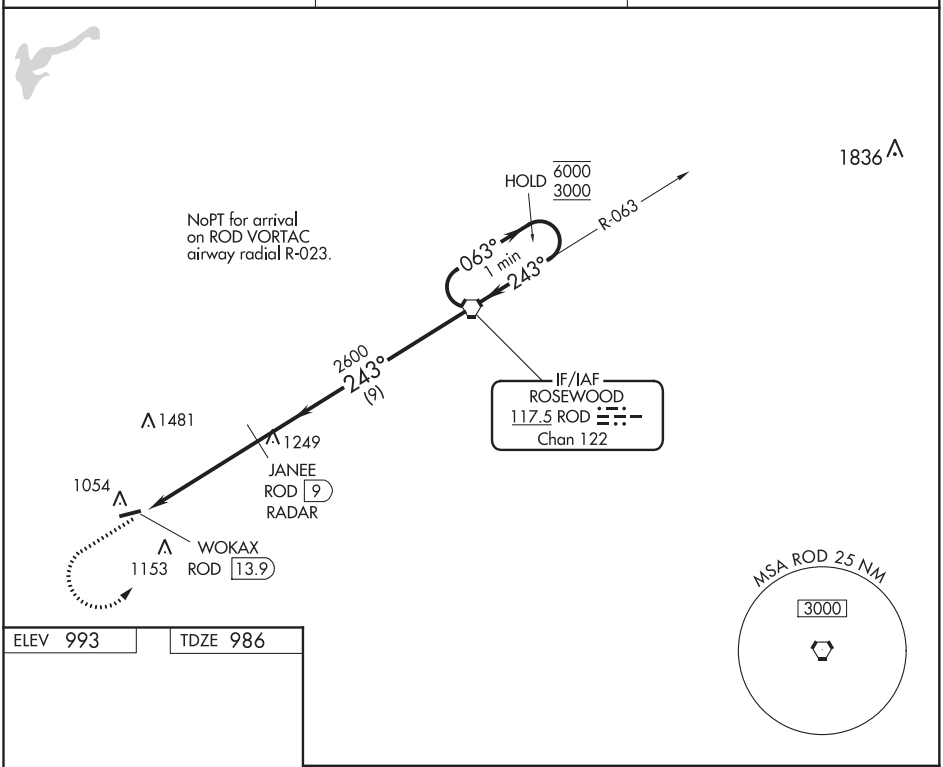
VORTAC ROD	APP CRS	Rwy ldg	3998
117.5	243°	TDZE	986
Chan 122		Apt Elev	993

DME or RADAR required.

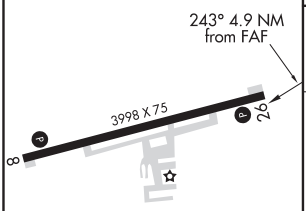
Rwy 26 helicopter visibility reduction below ¾ SM NA.
NA Use James M Cox Dayton Intl altimeter setting.

MISSED APPROACH: Climb to 3000 then left turn direct ROD VORTAC and hold.

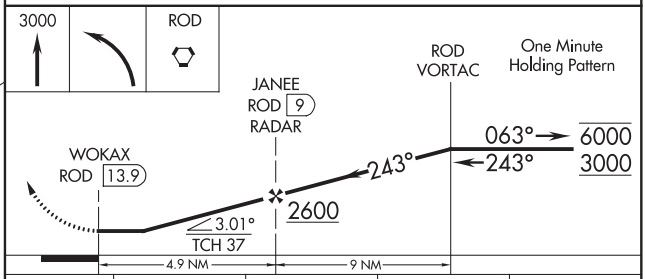
DAY ASOS	COLUMBUS APP CON	UNICOM
125.8	118.425 294.5 352.05	123.0 (CTAF) L



ELEV 993 TDZE 986



MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L



FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

CATEGORY	A	B	C	D
S-26	1500-1 514 (600-1)		1500-1⅜ 514 (600-1⅜)	
C CIRCLING	1500-1 507 (600-1)	1560-1 567 (600-1)	1560-1½ 567 (600-1½)	1880-3 887 (900-3)

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VOR-A

PIQUA AIRPORT-HARTZELL FIELD (I17)

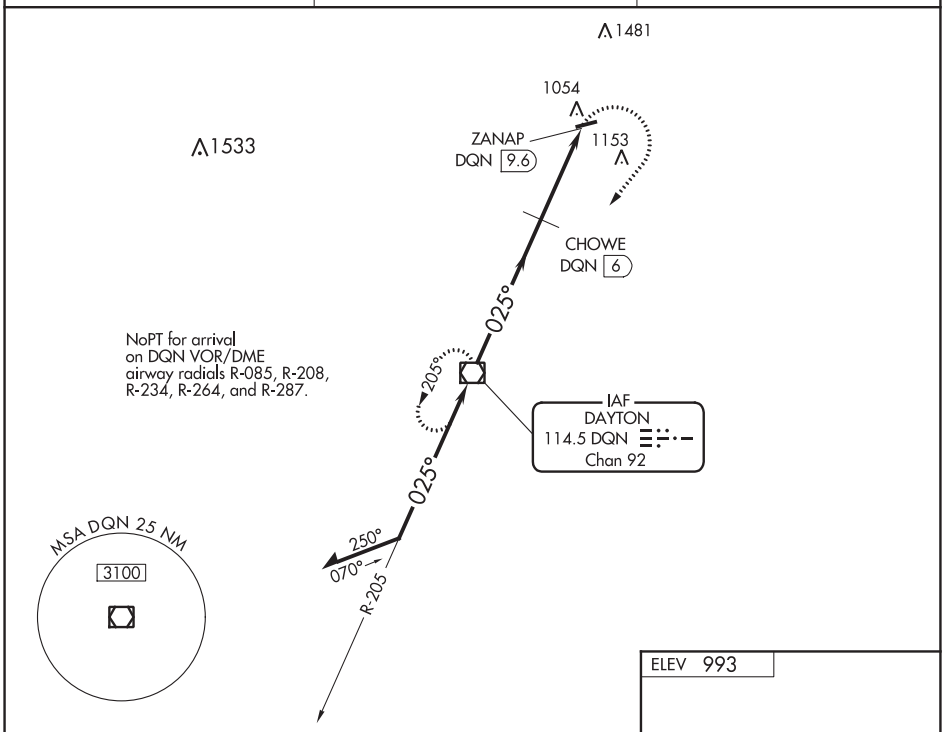
VOR/DME DQN 114.5 Chan 92	APP CRS 025°	Rwy ldg N/A TDZE N/A Apt Elev 993

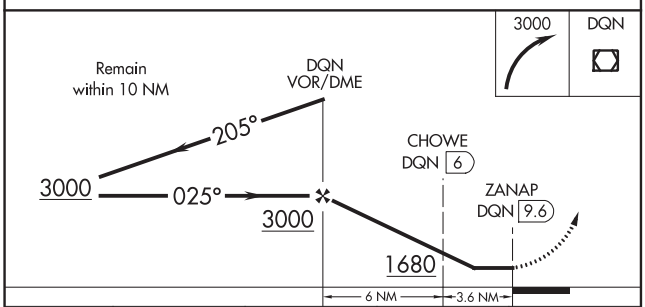
NA

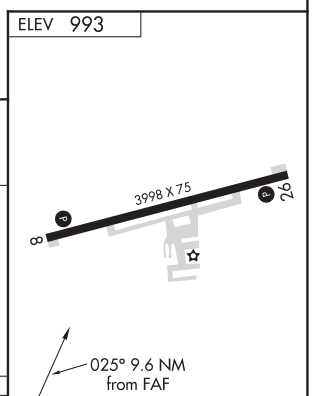
Use James M Cox Dayton Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct DQN VOR/DME and hold.

DAY ASOS	COLUMBUS APP CON	UNICOM
125.8	118.425 294.5 352.05	123.0 (CTAF) L







CATEGORY	A	B	C	D
C CIRCLING	1680-1 687 (700-1)		1680-2 687 (700-2)	1880-3 887 (900-3)
CHOWE FIX MINIMUMS (DME REQUIRED)				
C CIRCLING	1500-1 507 (600-1)	1560-1 567 (600-1)	1560-1½ 567 (600-1½)	1880-3 887 (900-3)

FAF to MAP 9.6 NM					
Knots	60	90	120	150	180
Min:Sec	9:36	6:24	4:48	3:50	3:12

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PLYMOUTH, INDIANA AL-5658 (FAA) 19115

WAAS CH 86338 W10A	APP CRS 101°	Rwy ldg 4400 TDZE 796 Apt Elev 800

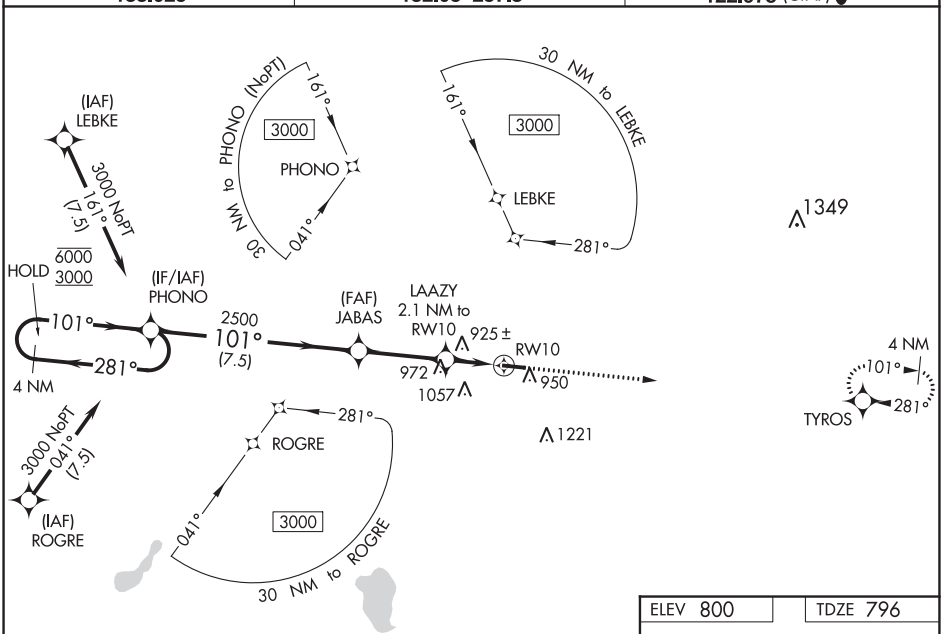
RNAV (GPS) RWY 10
PLYMOUTH MUNI (C65)

RNP APCH.

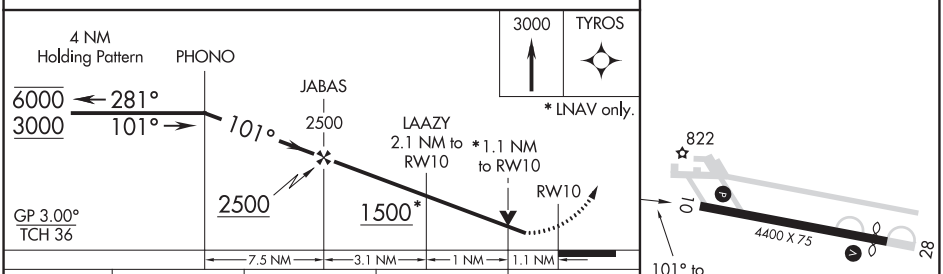
Baro-VNAV and VDP NA when using South Bend altimeter setting. Rwy 10 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use South Bend altimeter setting: increase LPV DA to 1136 feet, LNAV/VNAV DA to 1114 feet and all visibilities ⅛ SM; increase all MDAs 60 feet and LNAV and Circling Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 3000 direct TYROS and hold.

AWOS-3	SOUTH BEND APP CON *	UNICOM
133.025	132.05 257.8	122.975 (CTAF) L



ELEV 800 TDZE 796



CATEGORY	A	B	C	D
LPV DA	1088-1 292 (300-1)			NA
LNAV/VNAV DA	1066-1 270 (300-1)			NA
LNAV MDA	1180-1 384 (400-1)		1180-1⅛ 384 (400-1⅛)	NA
C CIRCLING	1280-1 480 (500-1)	1360-1 560 (600-1)	1540-2 740 (800-2)	NA

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH **90238** **W28A**	APP CRS **281°**	Rwy ldg **4103** TDZE **796** Apt Elev **800**

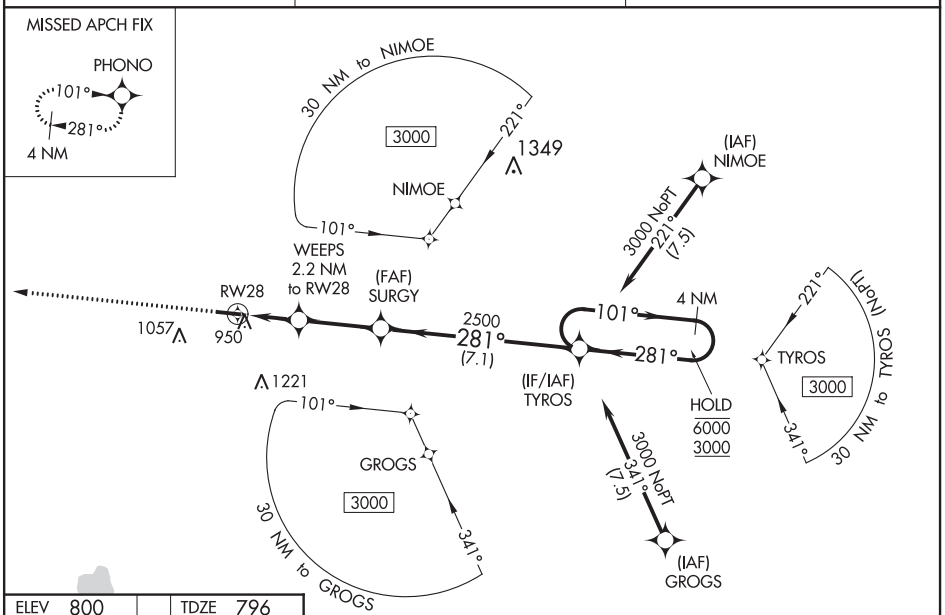
RNAV (GPS) RWY 28
PLYMOUTH MUNI (C65)

RNP APCH.

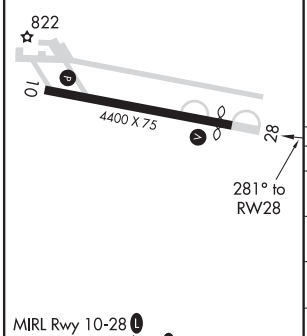
Baro-VNAV and VDP NA when using South Bend altimeter setting. Rwy 28 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter not received, use South Bend altimeter setting and increase LPV DA to 1147 feet and visibility all Cats ⅛ SM, LNAV/VNAV DA to 1225 feet and visibility all Cats ¼ SM, all MDA 60 feet and LNAV and Circling Cat C visibility ¼ SM.

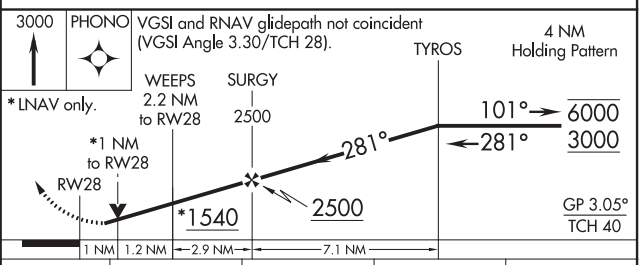
MISSED APPROACH: Climb to 3000 direct PHONO and hold.

AWOS-3	SOUTH BEND APP CON *	UNICOM
133.025	**132.05 257.8**	**122.975** (CTAF) L



ELEV 800	TDZE 796





CATEGORY	A	B	C	D
LPV DA	1099-1 303 (300-1)			NA
LNAV/VNAV DA	1177-1¼ 381 (400-1¼)			NA
LNAV MDA	1260-1 464 (500-1)		1260-1⅜ 464 (500-1⅜)	NA
C CIRCLING	1280-1 480 (500-1)	1360-1 560 (600-1)	1540-2 740 (800-2)	NA

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

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EC-2, 25 FEB 2021 to 22 APR 2021

PLYMOUTH, INDIANA | AL-5658 (FAA) | 21056

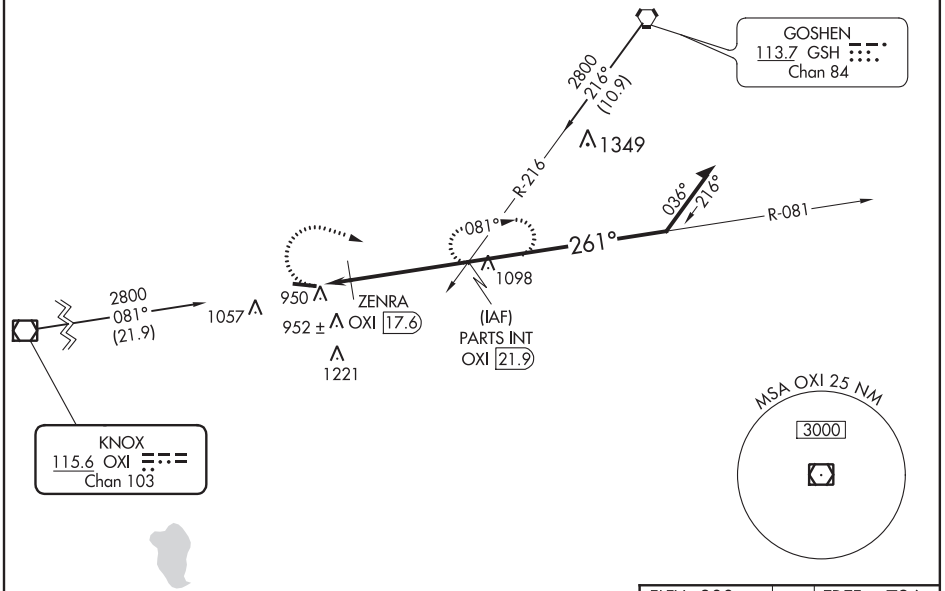
VOR RWY 28
PLYMOUTH MUNI (C65)

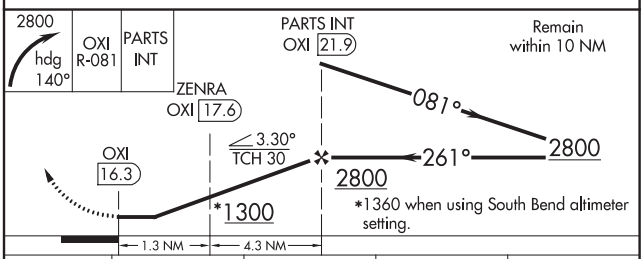
VOR/DME OXI	APP CRS	Rwy ldg	4103
115.6	261°	TDZE	796
Chan 103		Apt Elev	800

T Rwy 28 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use South Bend altimeter setting and increase all MDAs 60 feet and S-28 Cat C and Circling Cat C visibility ¼ SM; increase ZENRA fix minimums S-28 Cat C visibility ⅛ SM and Circling Cat C visibility ¼ SM.

MISSED APPROACH: Climbing right turn to 2800 on heading 140° and OXI VOR/DME R-081 direct PARTS INT/OXI 21.9 DME and hold.

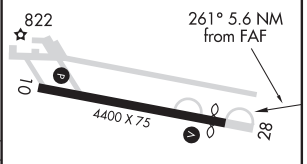
AWOS-3	SOUTH BEND APP CON *	UNICOM
133.025	132.05 257.8	122.975 (CTAF) L





CATEGORY	A	B	C	D
S-28	1300-1 504 (500-1)		1300-1⅜ 504 (500-1⅜)	NA
C CIRCLING	1300-1 500 (500-1)	1360-1 560 (600-1)	1540-2 740 (800-2)	NA
ZENRA FIX MINIMUMS (DME REQUIRED)				
S-28	1220-1 424 (500-1)		1220-1¼ 424 (500-1¼)	NA
C CIRCLING	1280-1 480 (500-1)	1360-1 560 (600-1)	1540-2 740 (800-1)	NA

ELEV 800 | TDZE 796



MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	5161
090°	TDZE	590
	Apt Elev	590

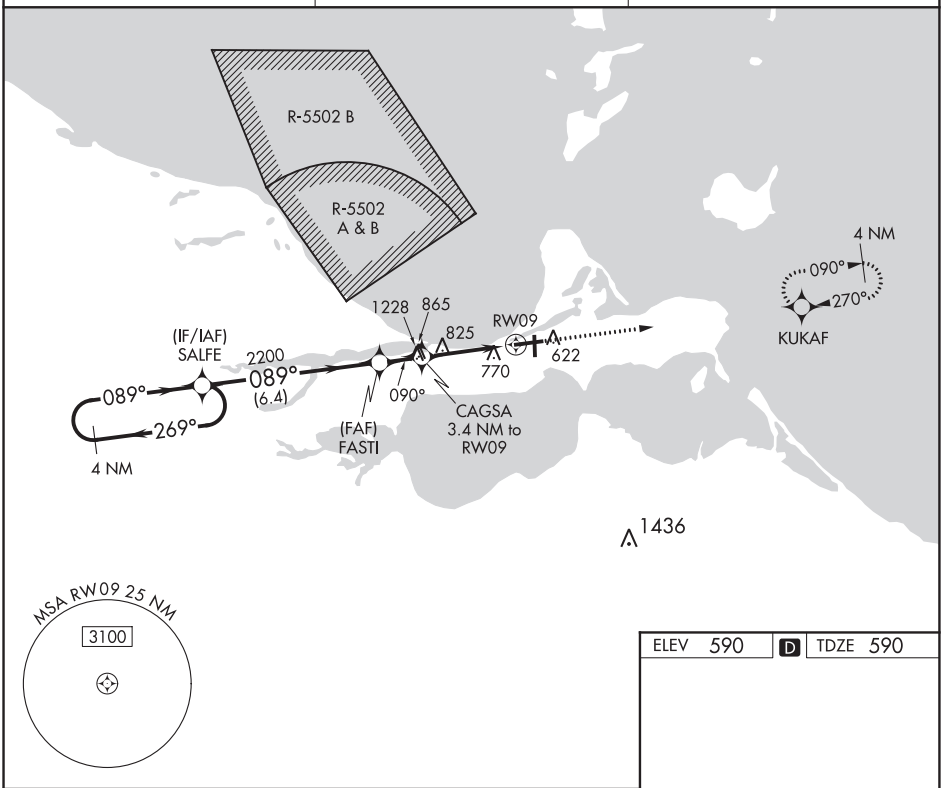
RNAV (GPS) RWY 9
ERIE-OTTAWA INTL (PCW)

RNP APCH.

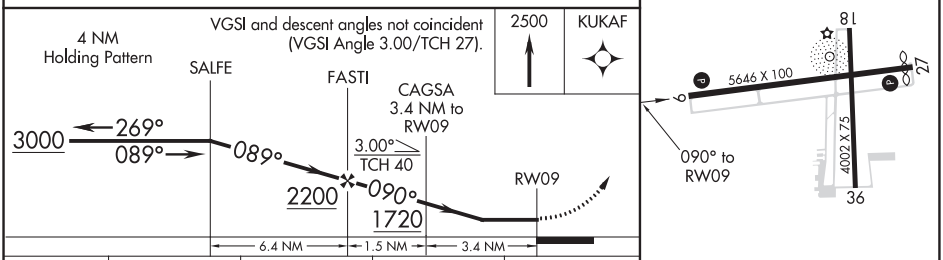
When local altimeter setting not received, use Toledo Executive altimeter setting and increase all MDA 80 feet and all Cat C/D visibilities ¼ mile. Rwy 9 helicopter visibility reduction below ¾ SM NA. Circling Rwy 18, 36 NA at night.

MISSED APPROACH: Climb to 2500 direct KUKAF and hold.

AWOS-3	CLEVELAND APP CON	UNICOM
118.775	126.35 346.325	122.8 (CTAF) L



ELEV 590 D TDZE 590



CATEGORY	A	B	C	D
LNAV MDA	1140-1 550 (600-1)		1140-1⅝ 550 (600-1⅝)	
C CIRCLING	1140-1 550 (600-1)		1180-1⅝ 590 (600-1⅝)	1580-3 990 (1000-3)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L

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PORT CLINTON, OHIO — AL-5727 (FAA) — 20142

WAAS CH 58012 W27A	APP CRS 270°	Rwy ldg 5445 TDZE 588 Apt Elev 590

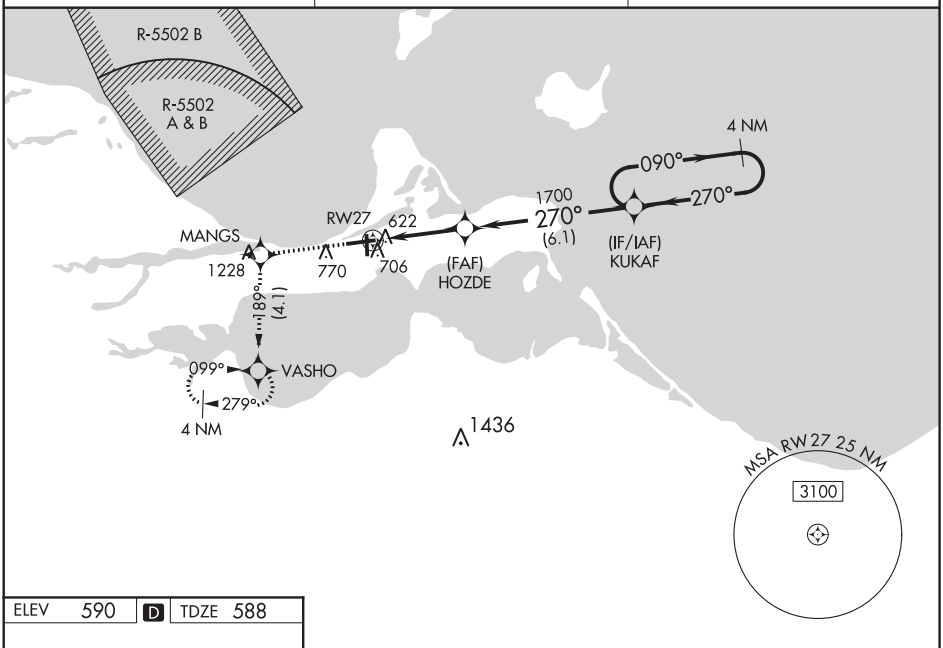
RNAV (GPS) RWY 27
ERIE-OTTAWA INTL (PCW)

RNP APCH.

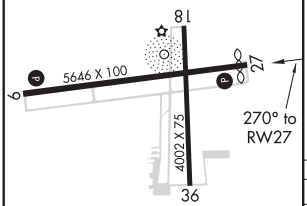
Baro-VNAV NA when using Toledo Executive altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Rwy 27 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Toledo Executive altimeter setting and increase all DA/MDA 80 feet and all visibilities ¼ mile. Circling Rwy 18, 36 NA at night.

MISSED APPROACH: Climb to 3000 direct MANGS and on track 189° to VASHO and hold, continue climb-in-hold to 3000.

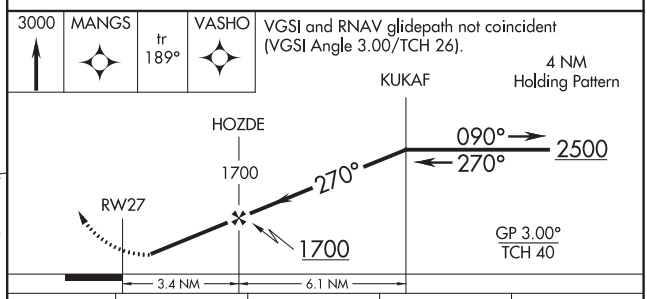
AWOS-3	CLEVELAND APP CON	UNICOM
118.775	126.35 346.325	122.8 (CTAF) L



ELEV 590 | D | TDZE 588



HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L



CATEGORY	A	B	C	D
LPV DA	910-1⅛ 322 (400-1⅛)			
LNAV/VNAV DA	956-1¼ 368 (400-1¼)			
LNAV MDA	980-1 392 (400-1)		980-1⅛ 392 (400-1⅛)	
C CIRCLING	1140-1 550 (600-1)		1180-1½ 590 (600-1½)	1580-3 990 (1000-3)

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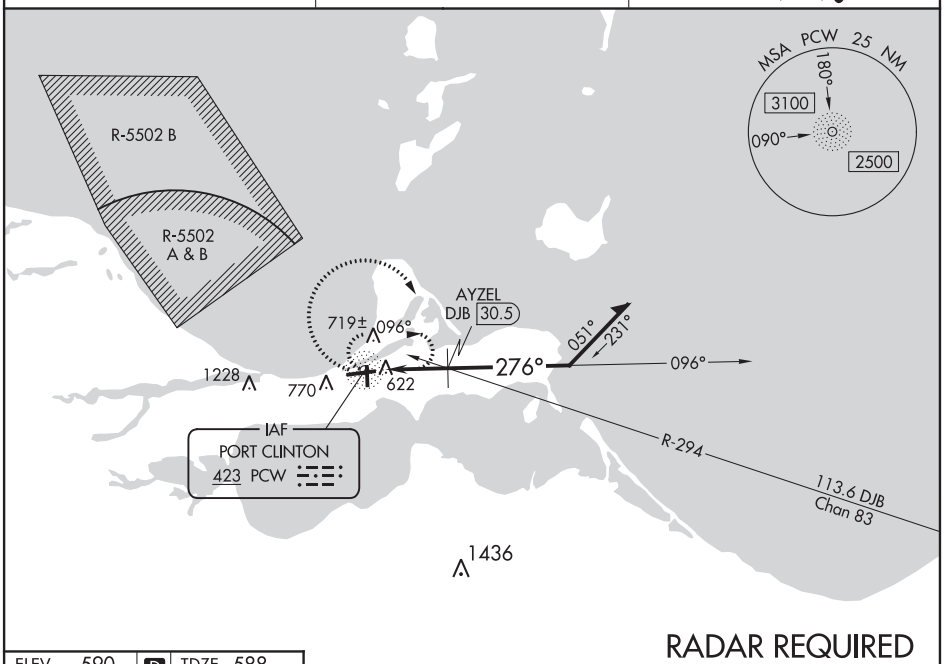
NDB PCW	APP CRS	Rwy ldg	5445
423	276°	TDZE	588
		Apt Elev	590

NDB RWY 27
ERIE-OTTAWA INTL (PCW)

T A NA — When local altimeter setting not received, use Toledo Executive altimeter setting and increase all MDA 80 feet and all visibilities ¼ mile. Helicopter visibility reduction below ¾ SM NA.

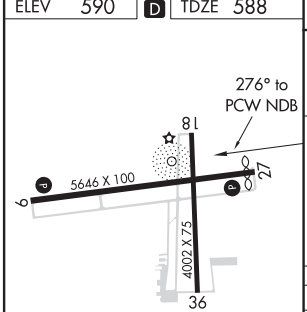
MISSED APPROACH: Climbing right turn to 2500 in PCW NDB holding pattern.

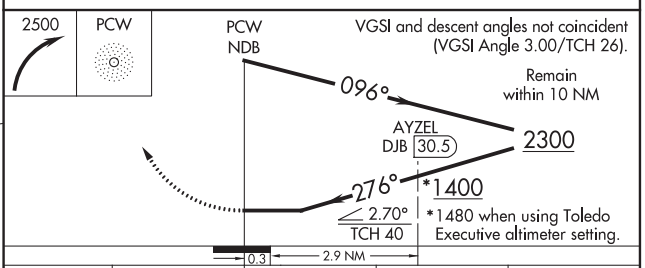
AWOS-3	CLEVELAND APP CON	UNICOM
118.775	126.35 346.325	122.8 (CTAF) L



RADAR REQUIRED

ELEV 590 D TDZE 588





CATEGORY	A	B	C	D
S-27	1400-1 812 (900-1)	1400-1¼ 812 (900-1¼)	1400-2½	812 (900-2½)
C CIRCLING	1400-1 810 (900-1)	1400-1¼ 810 (900-1¼)	1400-2½ 810 (900-2½)	1580-3 990 (1000-3)
AYZEL FIX MINIMUMS (DME REQUIRED)				
S-27	1060-1	472 (500-1)	1060-1⅜	472 (500-1⅜)
C CIRCLING	1140-1	550 (600-1)	1180-1½ 590 (600-1½)	1580-3 990 (1000-3)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

PORTLAND, INDIANA

AL-5633 (FAA)

18088

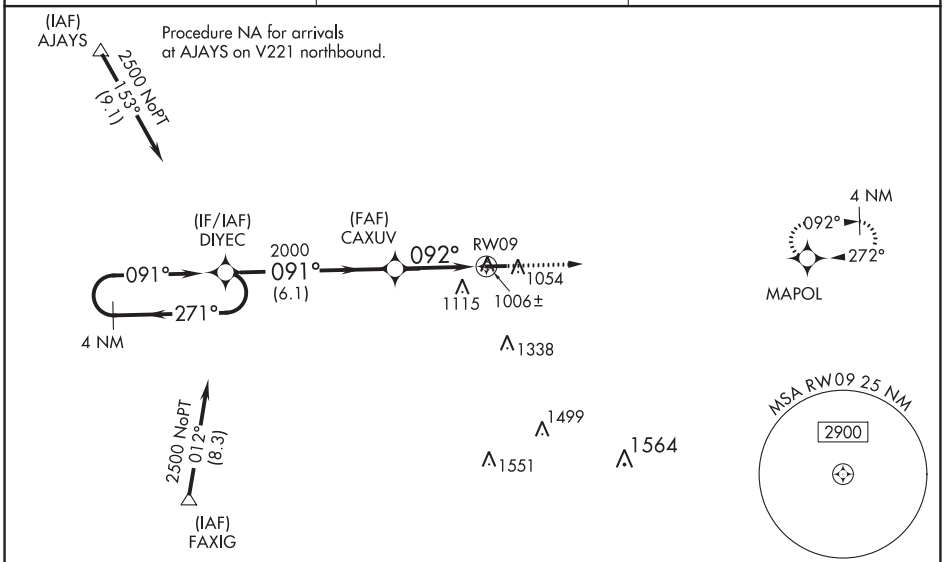
RNAV (GPS) RWY 9
PORTLAND MUNI (PLD)

WAAS CH 63225 W09A	APP CRS 092°	Rwy ldg 4002 TDZE 922 Apt Elev 925

NA Baro-VNAV NA when using Fort Wayne Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase LPV DA to 1255, LNAV/VNAV DA to 1320 and all MDA 100 feet, increase LPV all Cats visibility ⅛ mile, LNAV/VNAV all Cats and LNAV Cat C visibility ⅜ mile and Circling Cat C visibility ¼ mile. When VGSI inop, Straight-in/Circling Rwy 9 procedure NA at night. When VGSI inop, Circling Rwy 27 NA at night.

MISSED APPROACH: Climb to 3000 direct MAPOL and hold.

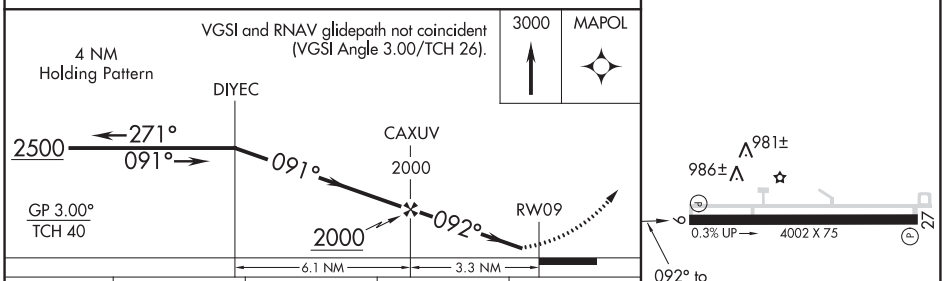
AWOS-3	FORT WAYNE APP CON	UNICOM
124.675	132.15 (SE/NE) 284.6 127.2 (SW/NW) 284.6	122.8 (CTAF) L



Procedure NA for arrivals
at FAXIG on V14 southwest bound.

ELEV 925 | TDZE 922

VGSI and RNAV glidepath not coincident
(VGSI Angle 3.00/TCH 26).



CATEGORY	A	B	C	D
LPV DA	1172-1 250 (300-1)			NA
LNAV/VNAV DA	1237-1 315 (400-1)			NA
LNAV MDA	1260-1 338 (400-1)			NA
CIRCLING	1480-1 555 (600-1)		1480-1½ 555 (600-1½)	NA

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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WAAS CH 73025 W27A	APP CRS 272°	Rwy ldg 4002 TDZE 925 Apt Elev 925

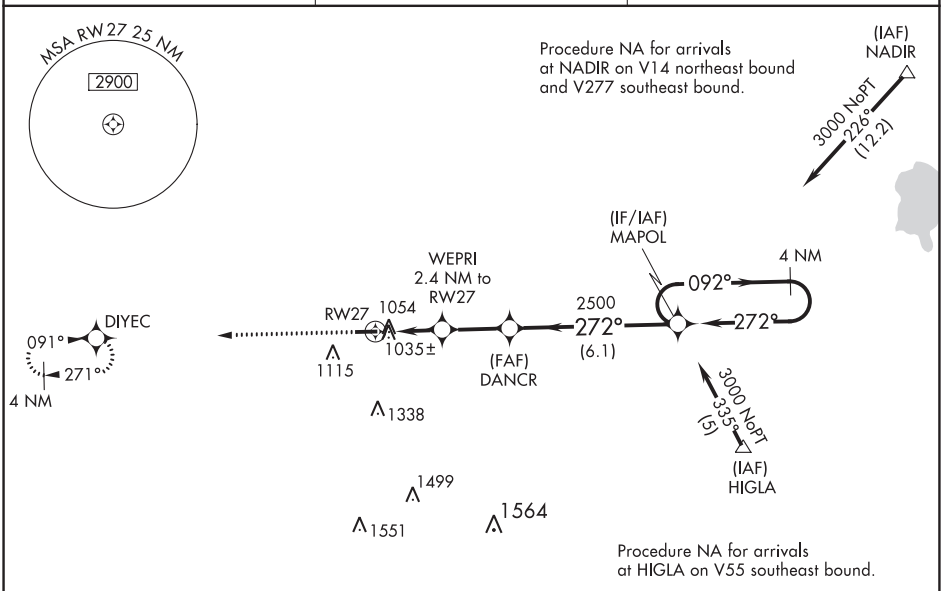
RNAV (GPS) RWY 27
PORTLAND MUNI (PLD)

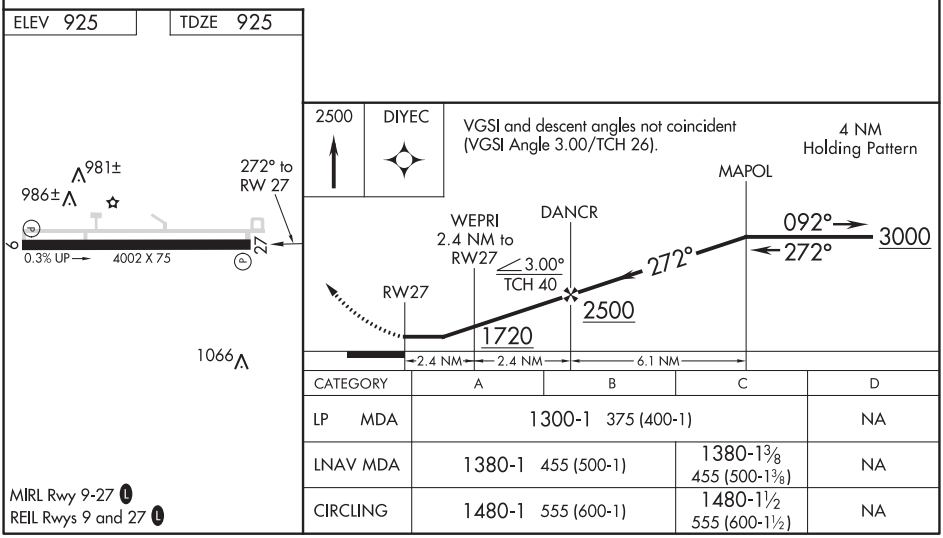
T A NA

DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Fort Wayne Intl altimeter setting and increase all MDA 100 ft, LP Cat C visibility ⅜ mile, LNAV and Circling Cat C visibility to ¼ mile. When VGSI inop, Straight-in/Circling Rwy 27 procedure NA at night. When VGSI inop, Circling Rwy 9 NA at night.

MISSED APPROACH: Climb to 2500 direct DIYEC and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
124.675	132.15 (SE/NE) 284.6 127.2 (SW/NW) 284.6	122.8 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1300-1 375 (400-1)			NA
LNAV MDA	1380-1 455 (500-1)		1380-1⅜ 455 (500-1⅜)	NA
CIRCLING	1480-1 555 (600-1)		1480-1½ 555 (600-1½)	NA

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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PORTSMOUTH, OHIO

AL-708 (FAA)

20310

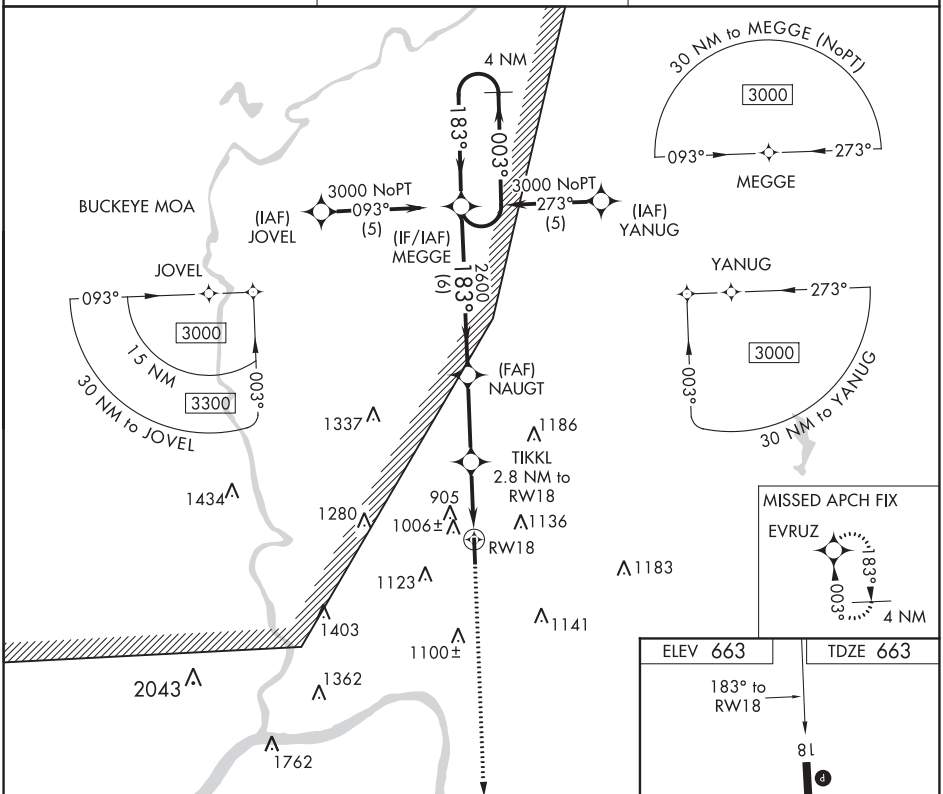
RNAV (GPS) RWY 18
GREATER PORTSMOUTH RGNL (PMH)

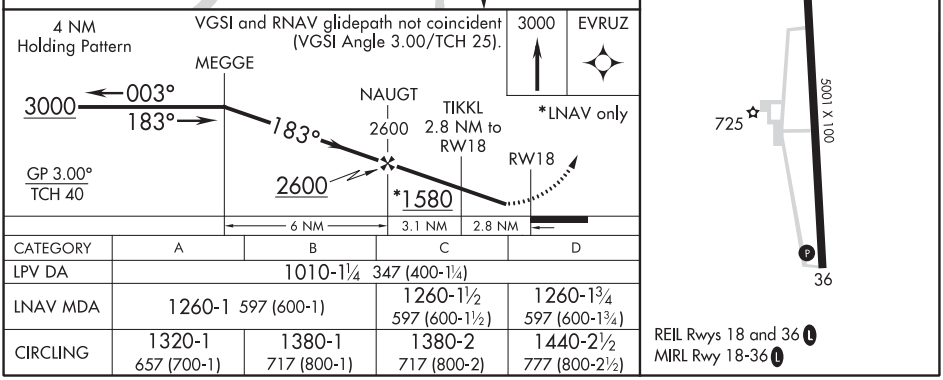
WAAS CH 45907 W18A	APP CRS 183°	Rwy ldg 5001 TDZE 663 Apt Elev 663

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Huntington altimeter setting and increase all DA 96 feet and all MDA 100 feet and LPV visibility ¼ mile all Cats, LNAV Cat C, D visibility ½ mile and Circling Cat B, D visibility ¼ mile, Cat C visibility ½ mile.

MISSED APPROACH: Climb to 3000 direct EVRUZ and hold.

AWOS-3	HUNTINGTON APP CON	UNICOM
125.175	128.4 270.1	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1010-1¼ 347 (400-1¼)			
LNAV MDA	1260-1 597 (600-1)		1260-1½ 597 (600-1½)	1260-1¾ 597 (600-1¾)
CIRCLING	1320-1 657 (700-1)	1380-1 717 (800-1)	1380-2 717 (800-2)	1440-2½ 777 (800-2½)

REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L

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WAAS CH 70408 W36A	APP CRS 003°	Rwy ldg 5001 TDZE 662 Apt Elev 663

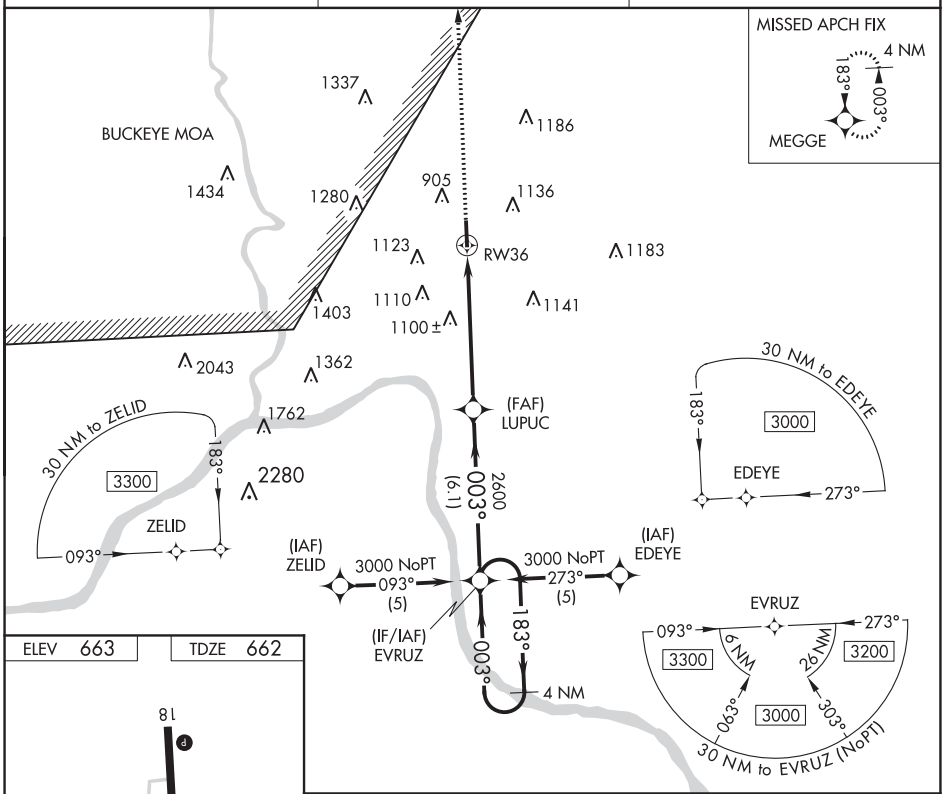
RNAV (GPS) RWY 36
GREATER PORTSMOUTH RGNL (PMH)

When local altimeter setting not received, use Huntington altimeter setting and increase all DA 96 feet and all MDA 100 feet and LPV visibility ¼ mile all Cats, LNAV Cat B visibility ¼ mile, Cat C, D visibility ½ mile, and Circling Cat B visibility ¼ mile, Cat C visibility ½ mile and Cat D visibility ¼ mile. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

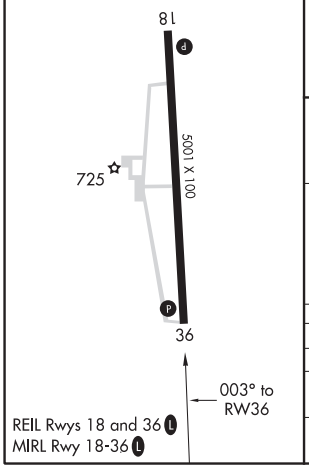
NA

MISSED APPROACH: Climb to 3000 direct MEGGE and hold.

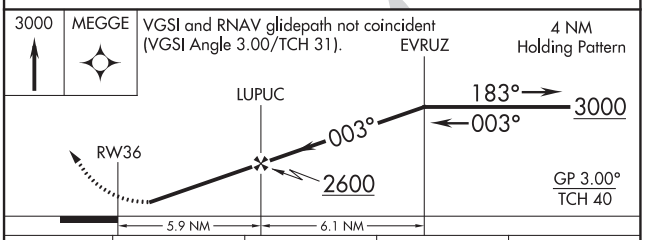
AWOS-3	HUNTINGTON APP CON	UNICOM
125.175	128.4 270.1	122.8 (CTAF) L



ELEV 663 | TDZE 662



REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	912-1 250 (300-1)			
LNAV MDA	1400-1 738 (800-1)		1400-2 738 (800-2)	1400-2¼ 738 (800-2¼)
CIRCLING	1400-1 737 (800-1)		1400-2 737 (800-2)	1440-2½ 777 (800-2½)

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VORTAC YRK	APP CRS	Rwy ldg	N/A
112.8	033°	TDZE	N/A
Chan 75		Apt Elev	663

VOR/DME-A

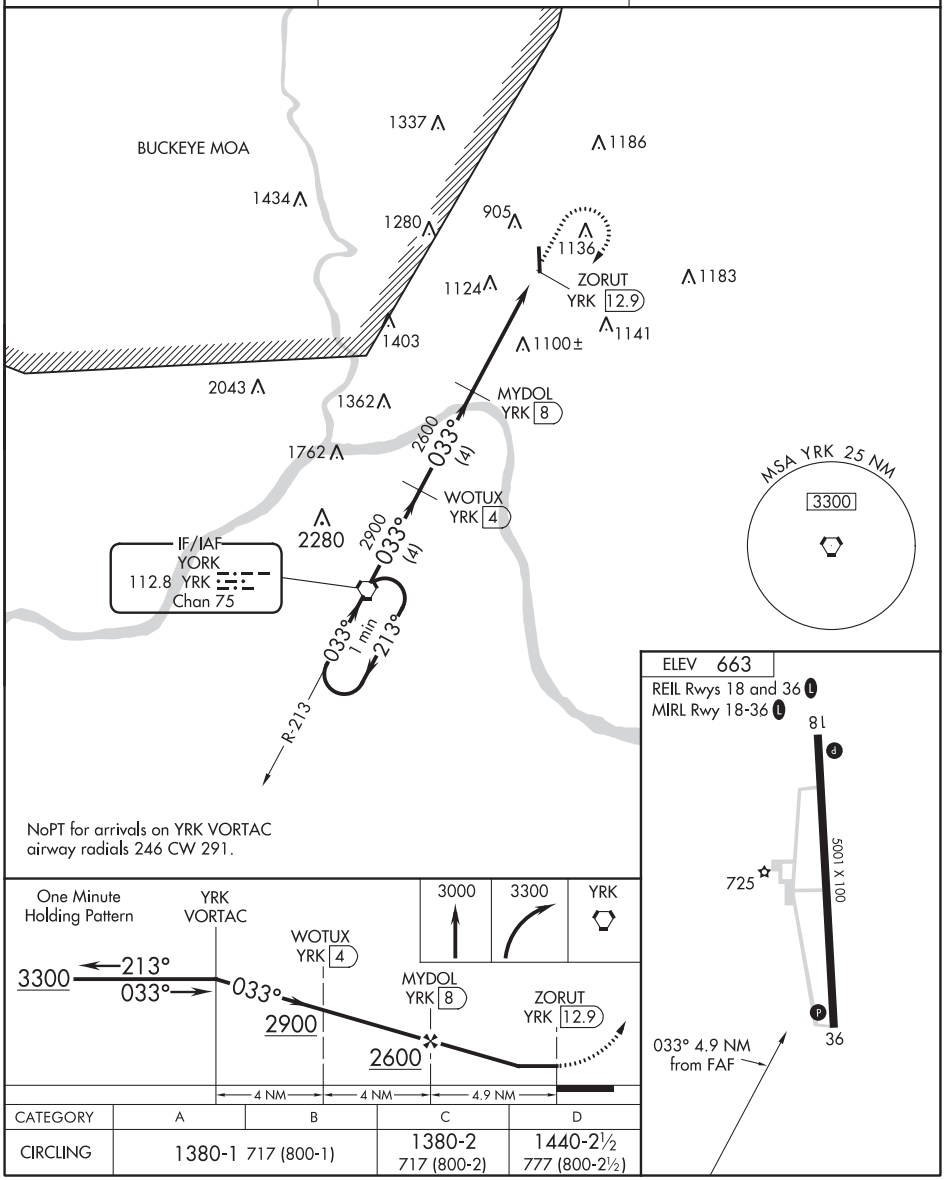
GREATER PORTSMOUTH RGNL (PMH)

When local altimeter setting not received, use Huntington altimeter setting and increase all MDA 100 feet and increase Cat B, D visibility ¼ mile, Cat C visibility ½ mile.

NA

MISSED APPROACH: Climb to 3000 then climbing right turn to 3300 direct YRK VORTAC and hold.

AWOS-3	HUNTINGTON APP CON	UNICOM
125.175	128.4 270.1	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1380-1 717 (800-1)		1380-2 717 (800-2)	1440-2½ 777 (800-2½)

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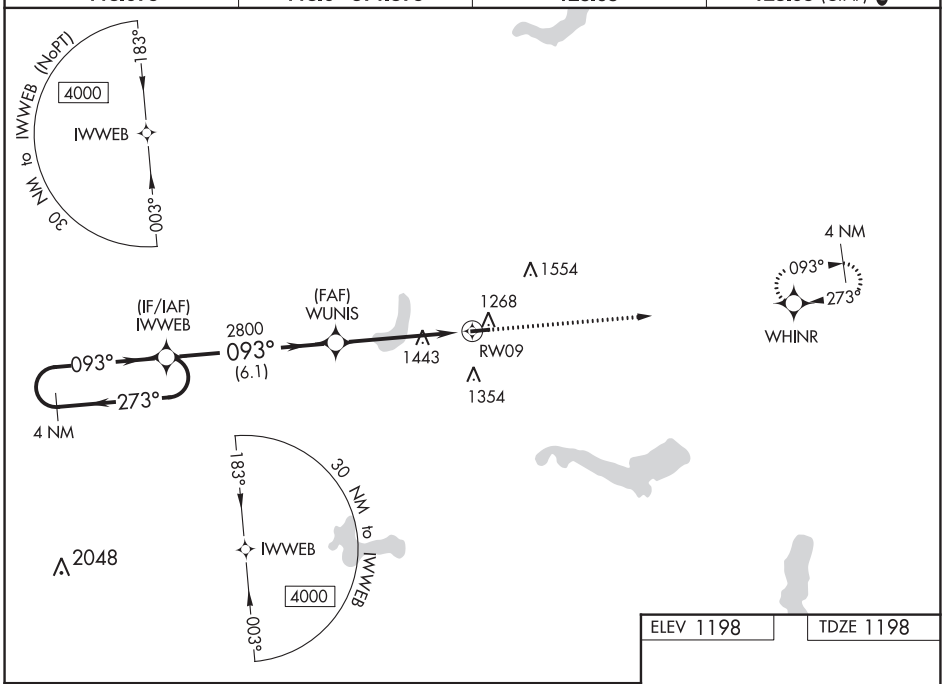
WAAS CH 77735 W09A	APP CRS 093°	Rwy ldg 3499 TDZE 1198 Apt Elev 1198

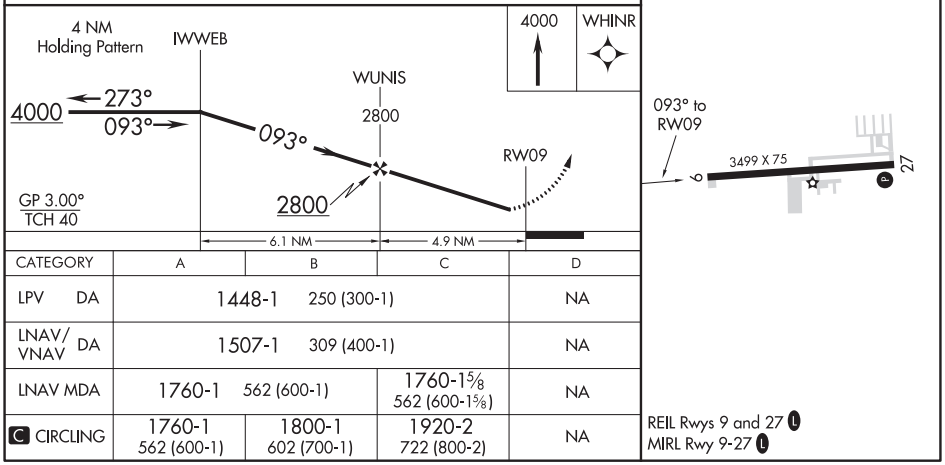
RNAV (GPS) RWY 9
PORTAGE COUNTY (POV)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all DA 50 feet and all MDA 60 feet, increase LNAV Cat C visibility ⅛ mile, LNAV/VNAV all Cats and Circling Cat C visibility ¼ mile. Baro-VNAV NA with Akron-Canton Rgnl altimeter setting. Helicopter visibility reduction below 1 SM NA. Night landing Cat C: Procedure NA.

MISSED APPROACH: Climb to 4000 direct WHINR and hold.

AWOS-3	CLEVELAND APP CON ★	CLNC DEL	UNICOM
118.675	118.6 371.875	125.65	123.05 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1448-1 250 (300-1)			NA
LNAV/VNAV DA	1507-1 309 (400-1)			NA
LNAV MDA	1760-1 562 (600-1)		1760-1⅝ 562 (600-1⅝)	NA
C CIRCLING	1760-1 562 (600-1)	1800-1 602 (700-1)	1920-2 722 (800-2)	NA

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RAVENNA, OHIO | AL-5844 (FAA) | 20142

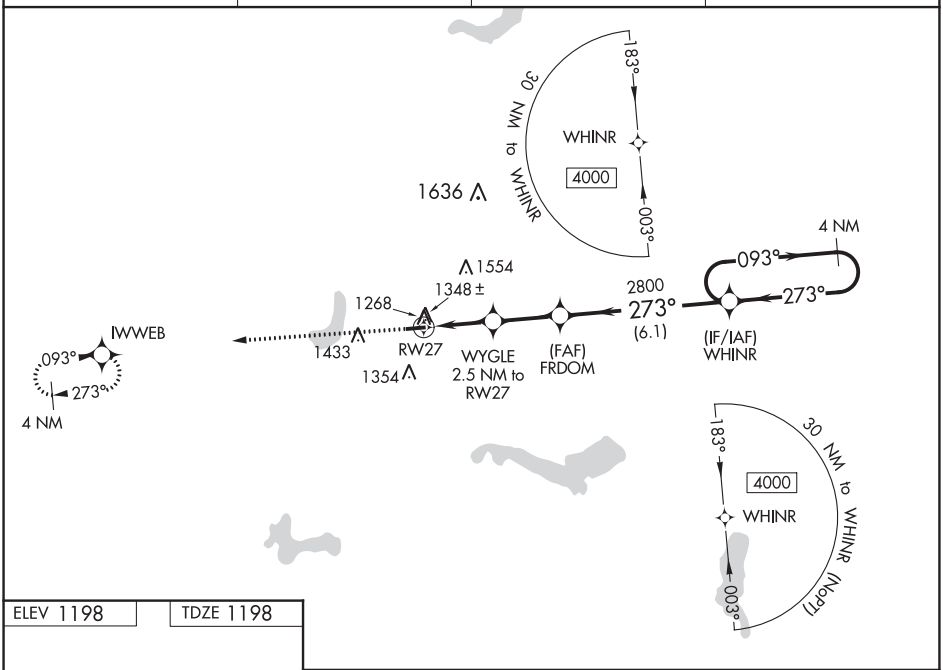
WAAS CH 49035 W27A	APP CRS 273°	Rwy ldg 3499 TDZE 1198 Apt Elev 1198

RNAV (GPS) RWY 27
PORTAGE COUNTY (POV)

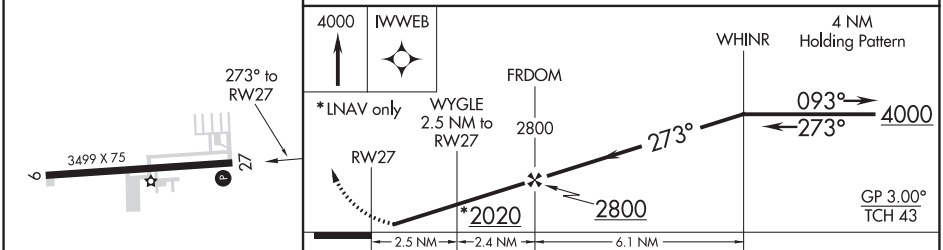
Baro-VNAV NA when using Akron-Canton Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all DA 50 feet and all MDA 60 feet; increase LPV all Cats visibility ⅛ mile, LNAV/VNAV all Cats visibility ¼ mile and Circling Cat C visibility ¼ mile. Helicopter visibility reduction below 1 SM NA. Night landing Cat C: Procedure NA.

MISSED APPROACH: Climb to 4000 direct IWWEB and hold.

AWOS-3	CLEVELAND APP CON*	CLNC DEL	UNICOM
118.675	118.6 371.875	125.65	123.05 (CTAF) L



ELEV 1198 | TDZE 1198



CATEGORY	A	B	C	D
LPV DA	1471-1 273 (300-1)			NA
LNAV/VNAV DA	1546-1⅛ 348 (400-1⅛)			NA
LNAV MDA	1640-1 442 (500-1)		1640-1⅜ 442 (500-1⅜)	NA
C CIRCLING	1740-1 542 (600-1)	1800-1 602 (700-1)	1920-2 722 (800-2)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

EC-2, 25 FEB 2021 to 22 APR 2021

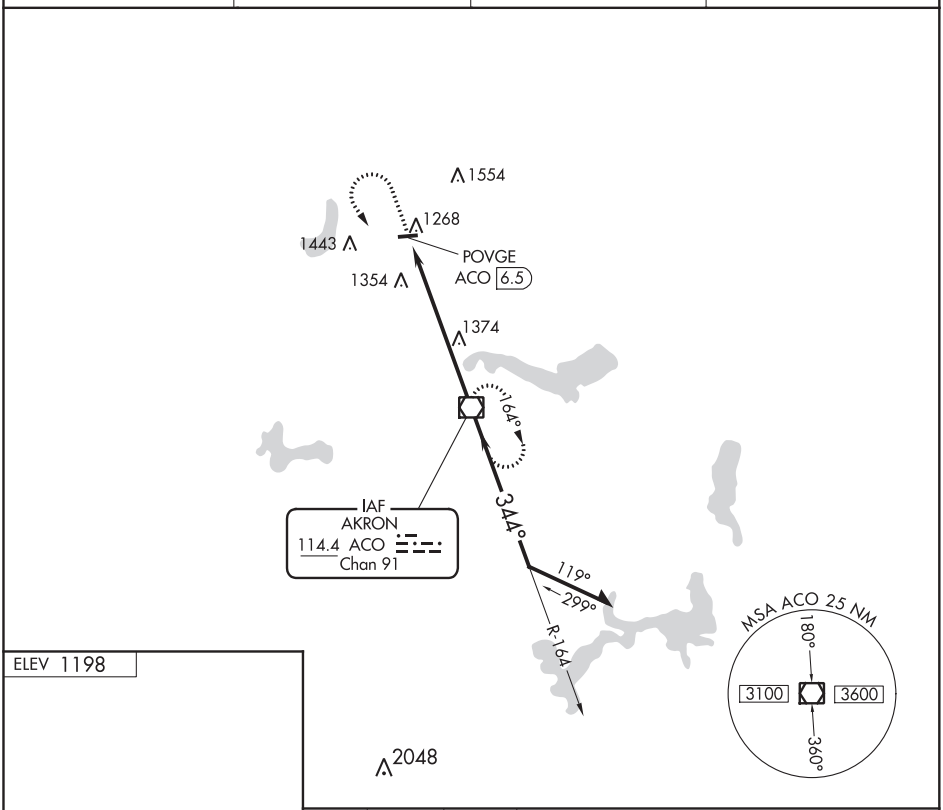
VOR-A
PORTAGE COUNTY (POV)

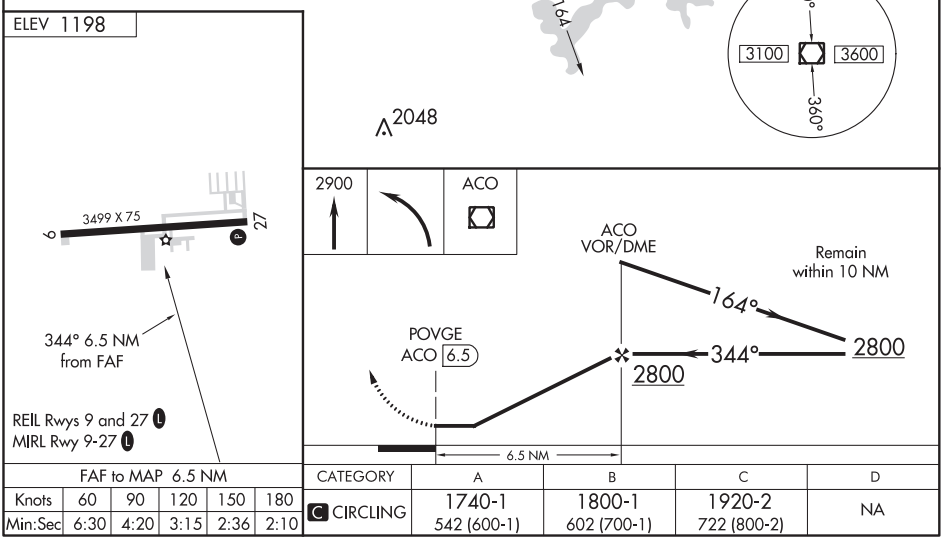
VOR/DME ACO 114.4 Chan 91	APP CRS 344°	Rwy ldg N/A TDZE N/A Apt Elev 1198

When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 60 feet.
Circling Cat C NA at night.

MISSED APPROACH: Climb to 2900 then left turn direct ACO VOR/DME and hold.

AWOS-3	CLEVELAND APP CON*	CLNC DEL	UNICOM
118.675	118.6 371.875	125.65	123.05 (CTAF) L





FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10

CATEGORY	A	B	C	D
C CIRCLING	1740-1 542 (600-1)	1800-1 602 (700-1)	1920-2 722 (800-2)	NA

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RENSSELAER, INDIANA | AL-6185 (FAA) | 19171

RNAV (GPS) RWY 18
JASPER COUNTY (RZL)

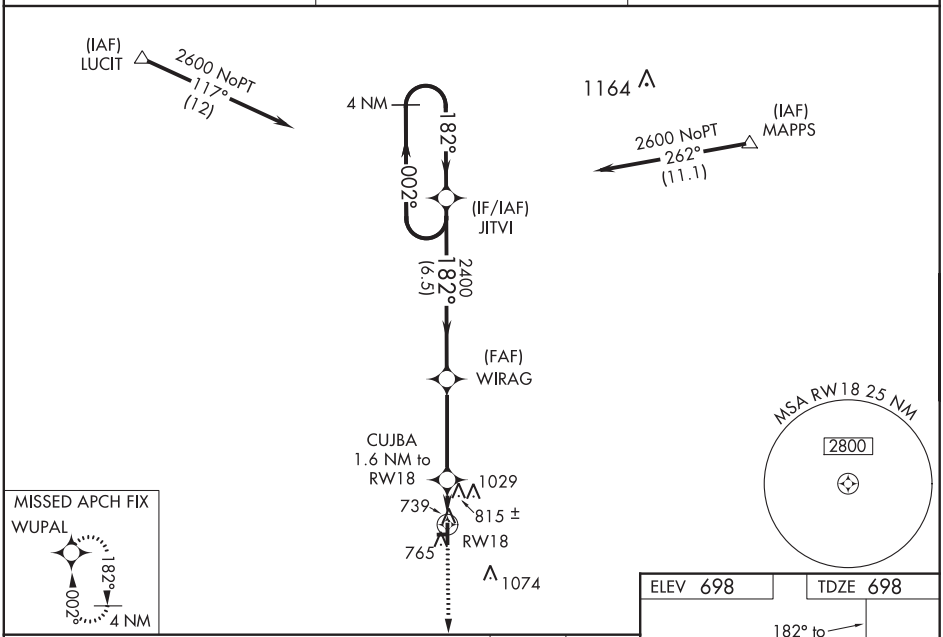
WAAS CH 70527 W18A	APP CRS 182°	Rwy ldg 4000 TDZE 698 Apt Elev 698

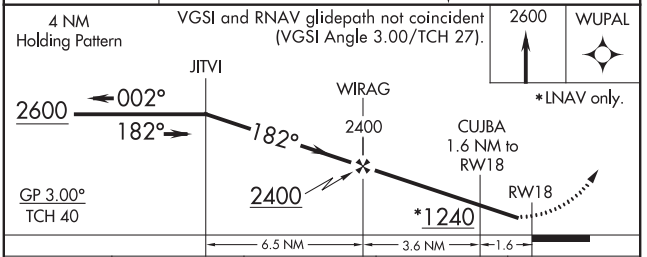
RNP APCH.

Baro-VNAV NA when using Knox altimeter setting. For uncompensated Baro-VNAV systems LNAV/VNAV NA below -22°C or above 54°C. When local altimeter setting not received, use Knox altimeter setting and increase all DA 78 feet and all MDA 80 feet. Increase LPV all Cats visibility ¼ mile, LNAV-VNAV all Cats and LNAV and Circling Cat C visibility ⅛ mile. Rwy 18 helicopter visibility reduction below 1 SM NA. Circling NA to Rwys 9 and 27.

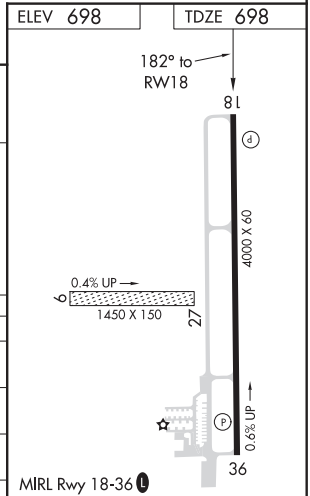
MISSED APPROACH: Climb to 2600 direct WUPAL and hold.

AWOS-3P	CHICAGO CENTER	UNICOM
119.175	132.5 284.7	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	948-1 250 (300-1)			NA
LNAV/VNAV DA	1096-1⅜ 398 (400-1⅜)			NA
LNAV MDA	1080-1 382 (400-1)		1080-1⅛ 382 (400-1⅛)	NA
CIRCLING	1120-1 422 (500-1)	1340-1 642 (700-1)	1340-1¾ 642 (700-1¾)	NA



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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82327 W36A	APP CRS 002°	Rwy ldg 4000 TDZE 681 Apt Elev 698

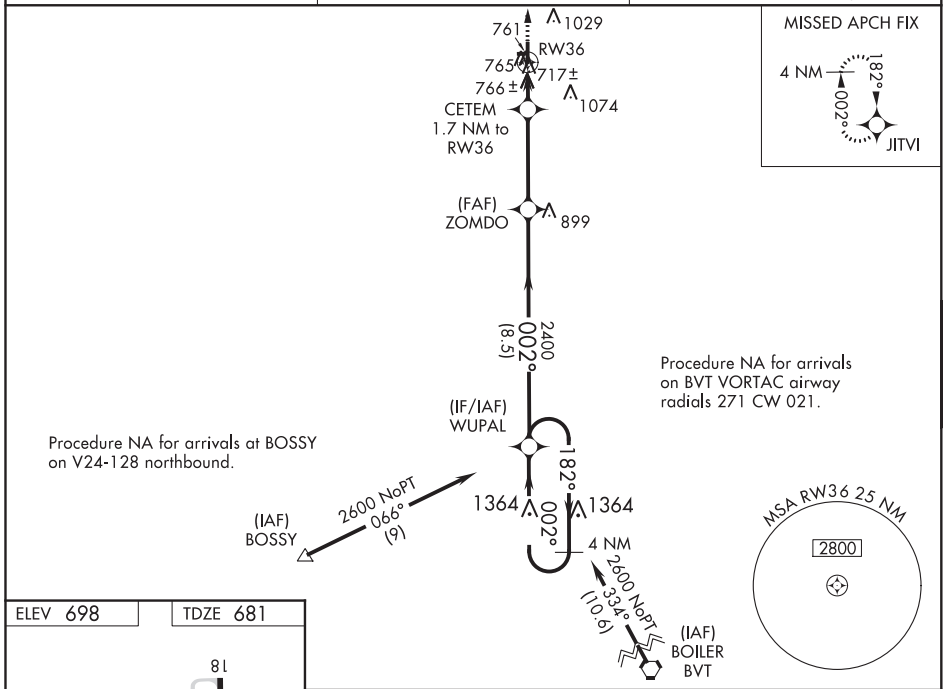
RNAV (GPS) RWY 36
JASPER COUNTY (RZL)

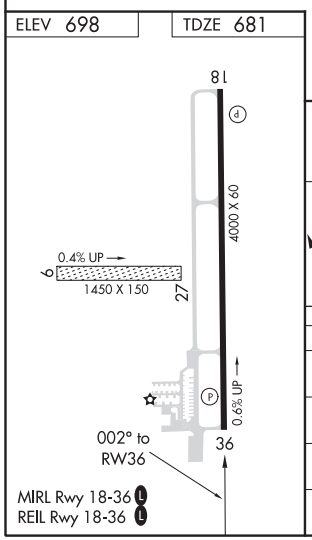
RNP APCH.

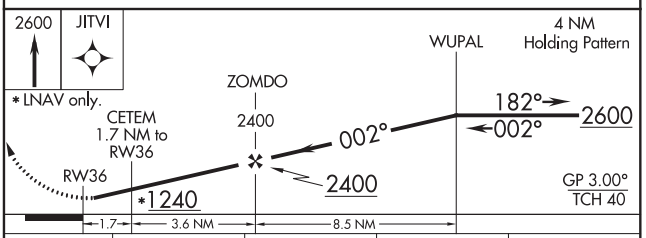
Baro-VNAV NA when using Knox altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C or above 54°C. When local altimeter setting not received use Knox altimeter setting and increase all DA 78 feet and all MDA 80 feet, increase LPV and LNAV/VNAV all Cats visibility ⅛ mile and LNAV and Circling Cat C visibility ¼ mile. Rwy 36 helicopter visibility reduction below 1 SM NA. Circling NA to Rwys 9 and 27.

MISSED APPROACH: Climb to 2600 direct JITVI and hold.

AWOS-3P	CHICAGO CENTER	UNICOM
119.175	132.5 284.7	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	931-1 250 (300-1)			NA
LNAV/VNAV DA	947-1 266 (300-1)			NA
LNAV MDA	1020-1 339 (400-1)			NA
CIRCLING	1120-1 422 (500-1)	1340-1 642 (700-1)	1340-1¾ 642 (700-1¾)	NA

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RICHMOND, INDIANA | AL-863 (FAA) | 20086

WAAS CH 72842 W06A	APP CRS 058°	Rwy ldg 5200 TDZE 1136 Apt Elev 1140

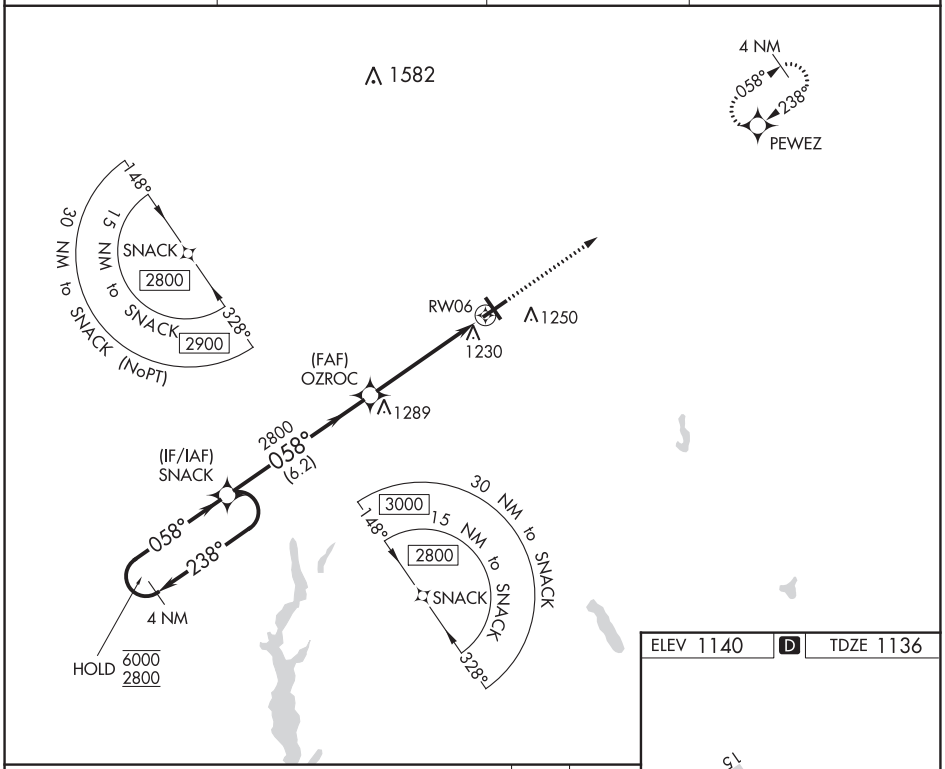
RNAV (GPS) RWY 6
RICHMOND MUNI (RID)

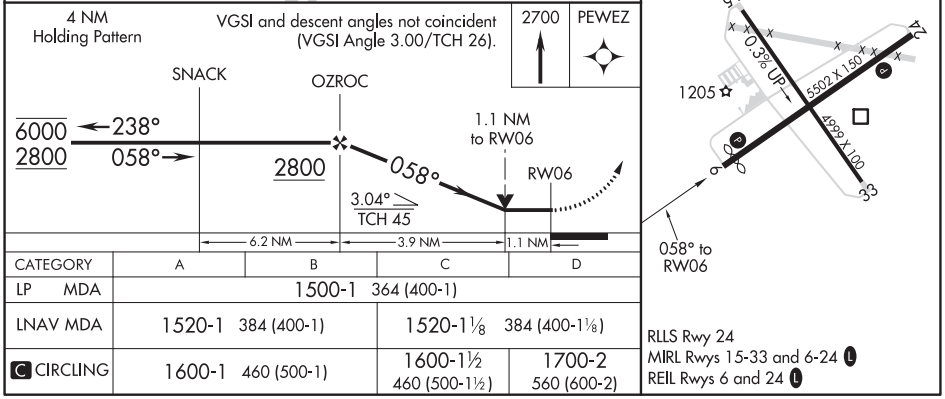
RNP APCH.

Circling Rwy 15 NA at night.
Rwy 6 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2700 direct PEWEZ and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
121.225	118.425 352.05	133.55	122.7 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1500-1 364 (400-1)			
LNAV MDA	1520-1 384 (400-1)		1520-1⅛ 384 (400-1⅛)	
C CIRCLING	1600-1 460 (500-1)		1600-1½ 460 (500-1½)	1700-2 560 (600-2)

RICHMOND, INDIANA
Amdt 1 08NOV18

39°45′N-84°51′W

RICHMOND MUNI (RID)
RNAV (GPS) RWY 6

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WAAS CH 82112 W24A	APP CRS 238°	Rwy ldg 5500 TDZE 1139 Apt Elev 1140

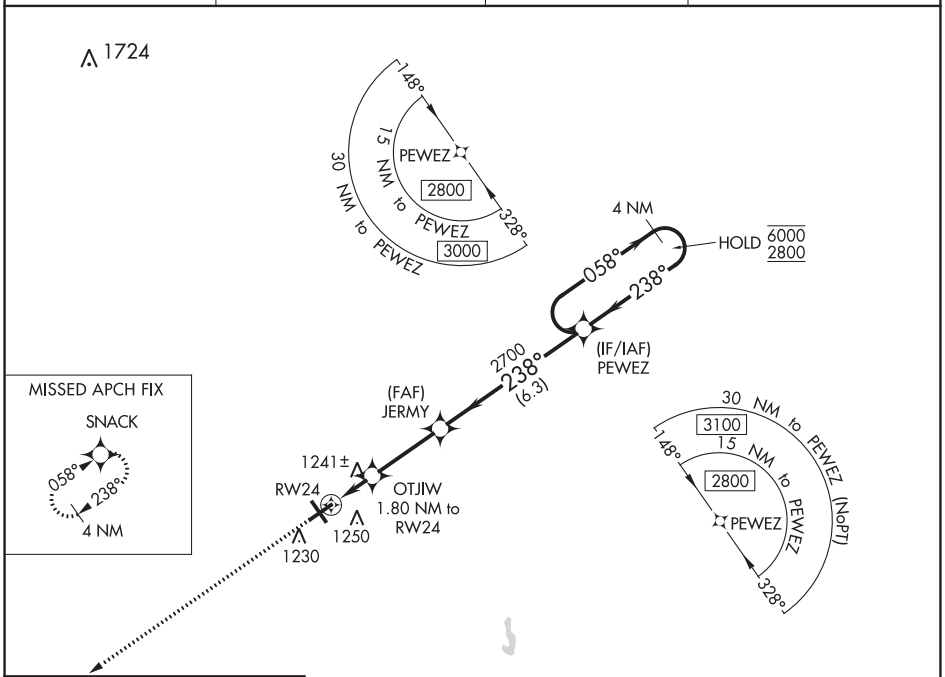
RNAV (GPS) RWY 24
RICHMOND MUNI (RID)

RNP APCH.

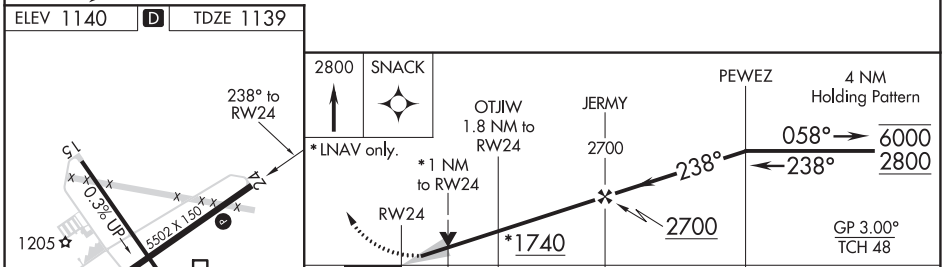
Circling Rwy 15 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

MISSED APPROACH: Climb to 2800 direct SNACK and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
121.225	118.425 352.05	133.55	122.7 (CTAF) L



ELEV 1140 D TDZE 1139



CATEGORY	A	B	C	D
LPV DA	1339-¾ 200 (200-¾)			
LNAV/VNAV DA	1409-⅞ 270 (300-⅞)			
LNAV MDA	1500-1 361 (400-1)			
C CIRCLING	1600-1 460 (500-1)		1600-1½ 460 (500-1½)	1700-2 560 (600-2)

RLLS Rwy 24
MIRL Rwys 15-33 and 6-24 L
REIL Rwys 6 and 24 L

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RICHMOND , INDIANA | AL-863 (FAA) | 20086

WAAS CH 78242 W33A	APP CRS 328°	Rwy ldg 4999 TDZE 1140 Apt Elev 1140

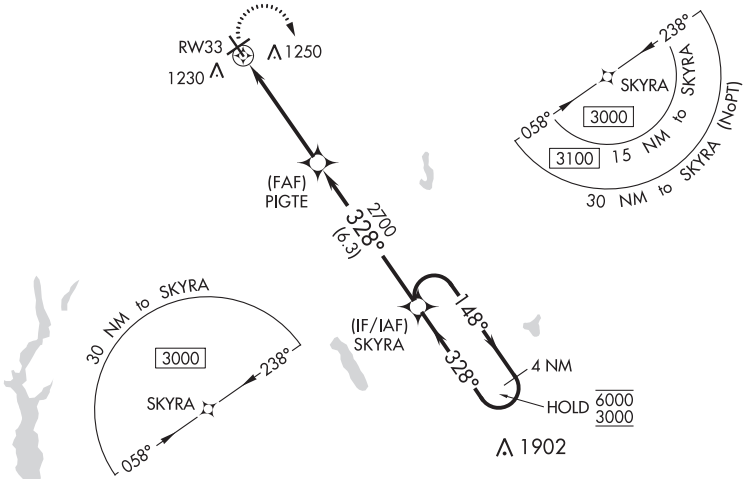
RNAV (GPS) RWY 33
RICHMOND MUNI (RID)

RNP APCH.

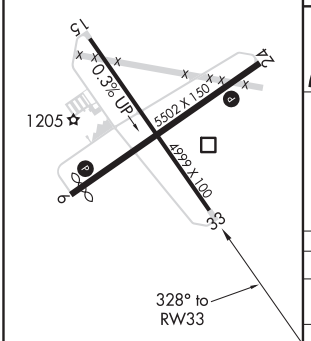
Circling Rwy 15 NA at night.
Rwy 33 helicopter visibility reduction below ¾ SM NA.

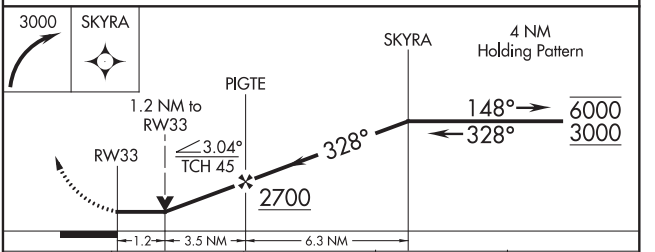
MISSED APPROACH: Climbing right turn to 3000 direct SKYRA and hold.

AWOS-3	COLUMBUS APP CON	CLNC DEL	UNICOM
121.225	118.425 352.05	133.55	122.7 (CTAF) L



ELEV 1140 | D | TDZE 1140





CATEGORY	A	B	C	D
LP MDA	1560-1 420 (500-1)		1560-1⅛ 420 (500-1⅛)	
LNAV MDA	1560-1 420 (500-1)		1560-1⅛ 420 (500-1⅛)	
C CIRCLING	1600-1 460 (500-1)		1600-1½ 460 (500-1½)	1700-2 560 (600-2)

RLLS Rwy 24
MIRL Rwys 15-33 and 6-24 L
REIL Rwys 6 and 24 L

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RNAV (GPS) RWY 11
FULTON COUNTY (RCR)

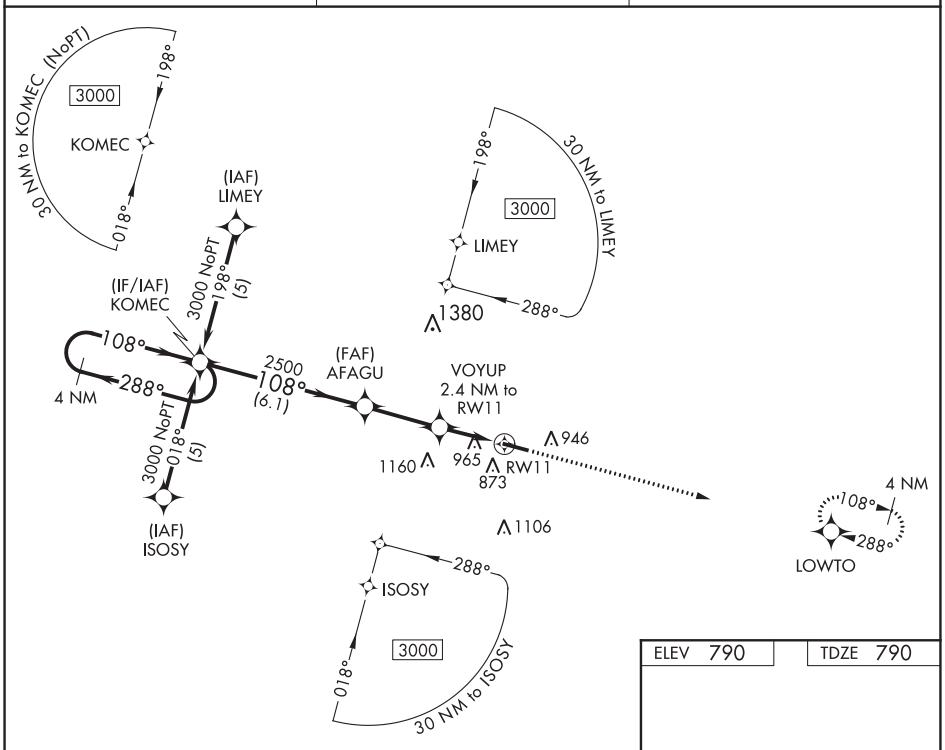
APP CRS	Rwy ldg	5001
108°	TDZE	790
	Apt Elev	790

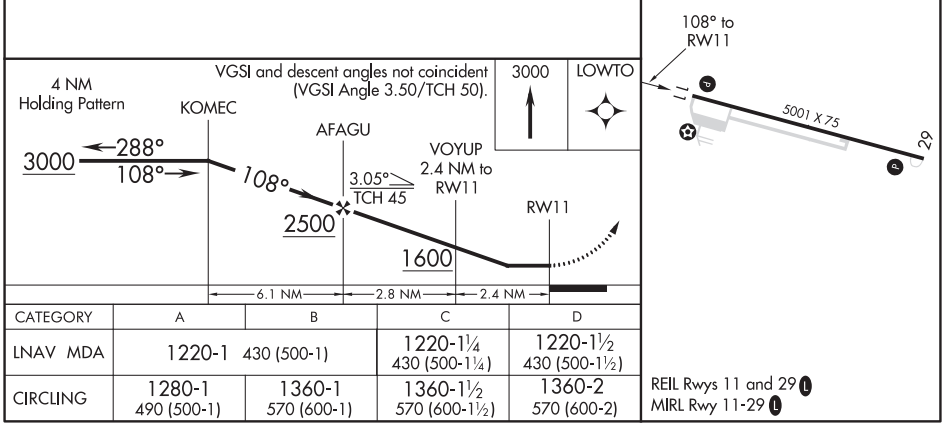
T A NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Goshen altimeter setting and increase all MDA 100 feet, increase LNAV Cats C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct LOWTO and hold.

AWOS-3	SOUTH BEND APP CON ★	UNICOM
118.775	132.05 257.8	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1220-1 430 (500-1)		1220-1¼ 430 (500-1¼)	1220-1½ 430 (500-1½)
CIRCLING	1280-1 490 (500-1)	1360-1 570 (600-1)	1360-1½ 570 (600-1½)	1360-2 570 (600-2)

REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

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ROCHESTER, INDIANA

AL-5615 (FAA)

20366

RNAV (GPS) RWY 29

FULTON COUNTY (RCR)

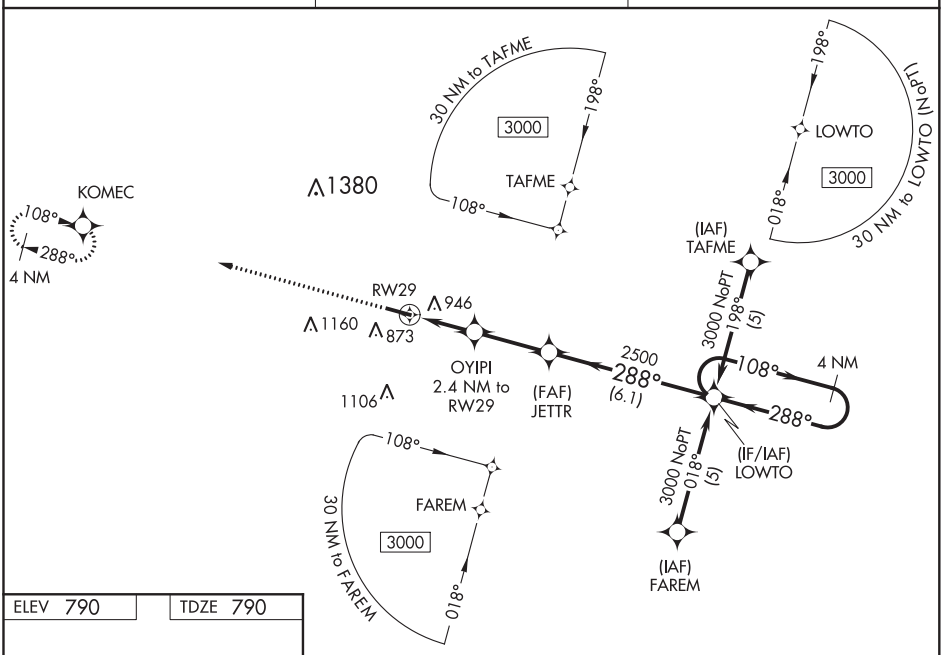
WAAS CH 48809 W29A	APP CRS 288°	Rwy ldg 5001 TDZE 790 Apt Elev 790

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47° C (116°F). When local altimeter setting not received, use Goshen altimeter setting and increase all DA 81 feet and all MDA 100 feet, increase LPV all Cats, LNAV Cats C and D, Circling Cat C visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile. Baro-VNAV and VDP NA when using Goshen altimeter setting.

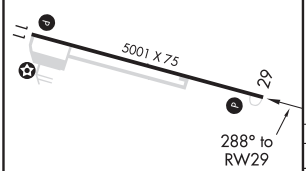
NA

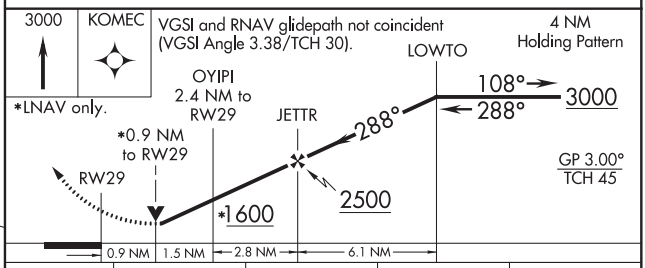
MISSED APPROACH: Climb to 3000 direct KOMEC and hold.

AWOS-3	SOUTH BEND APP CON★	UNICOM
118.775	132.05 257.8	122.7 (CTAF) L



ELEV 790 | TDZE 790





CATEGORY	A	B	C	D
LPV DA	1127-1¼ 337 (400- 1¼)			
LNAV/VNAV DA	1244-1½ 454 (500- 1½)			
LNAV MDA	1200-1 410 (500-1)		1200-1¼ 410 (500-1¼)	
CIRCLING	1280-1 490 (500-1)	1360-1 570 (600-1)	1360-1½ 570 (500-1½)	1360-2 570 (600-2)

REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

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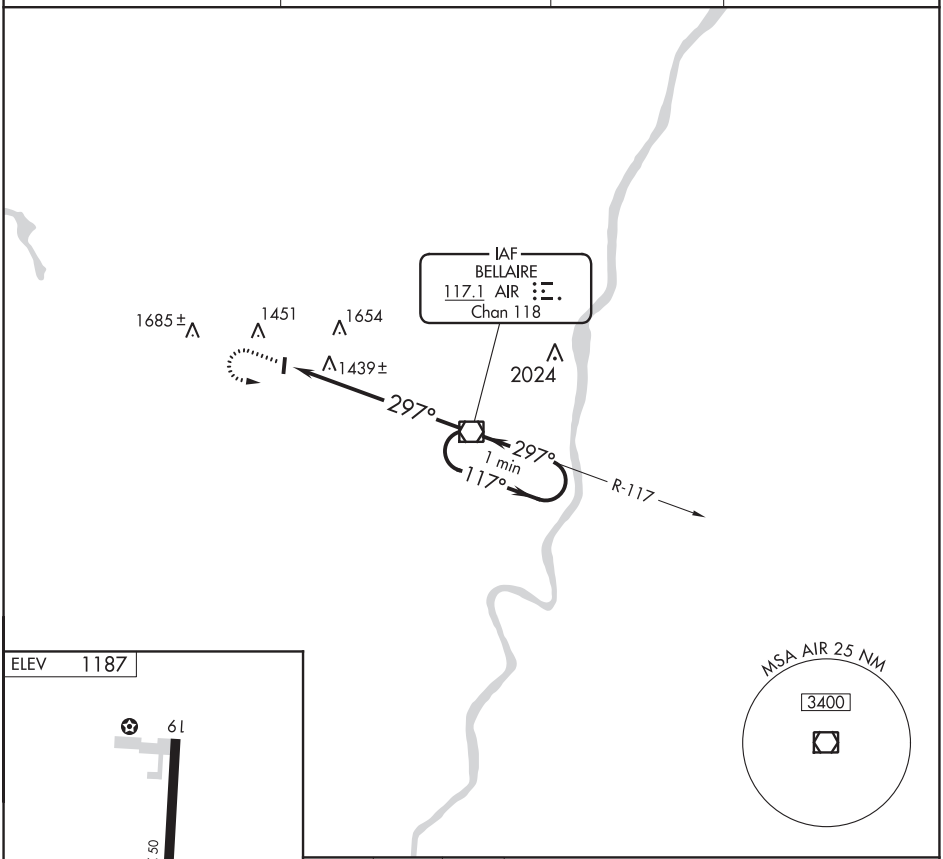
VOR-A
ALDERMAN (2P7)

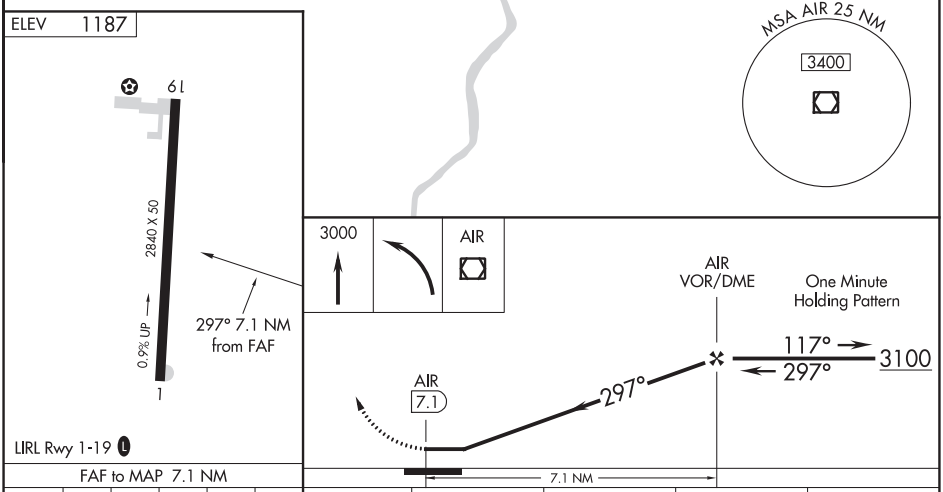
VOR/DME AIR 117.1 Chan 118	APP CRS 297°	Rwy ldg N/A TDZE N/A Apt Elev 1187

T A NA Use Wheeling, WV altimeter setting; when not received, use Pittsburgh Intl altimeter setting and increase all MDA 80 feet and Cat B visibility ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3100 then left turn direct AIR VOR/DME and hold.

HLG ASOS	CLEVELAND CENTER		CTAF	
127.375	126.95	239.30	122.9	123.3 L





FAF to MAP 7.1 NM					
Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

CATEGORY	A	B	C	D
CIRCLING	1920-1	733 (800-1)	NA	

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SALEM, OHIO | AL-6906 (FAA) | 20310

VOR or GPS-A
SALEM AIRPARK INC (38D)

VOR/DME ACO 114.4 Chan 91	APP CRS 126°	Rwy ldg N/A TDZE N/A Apt Elev 1162

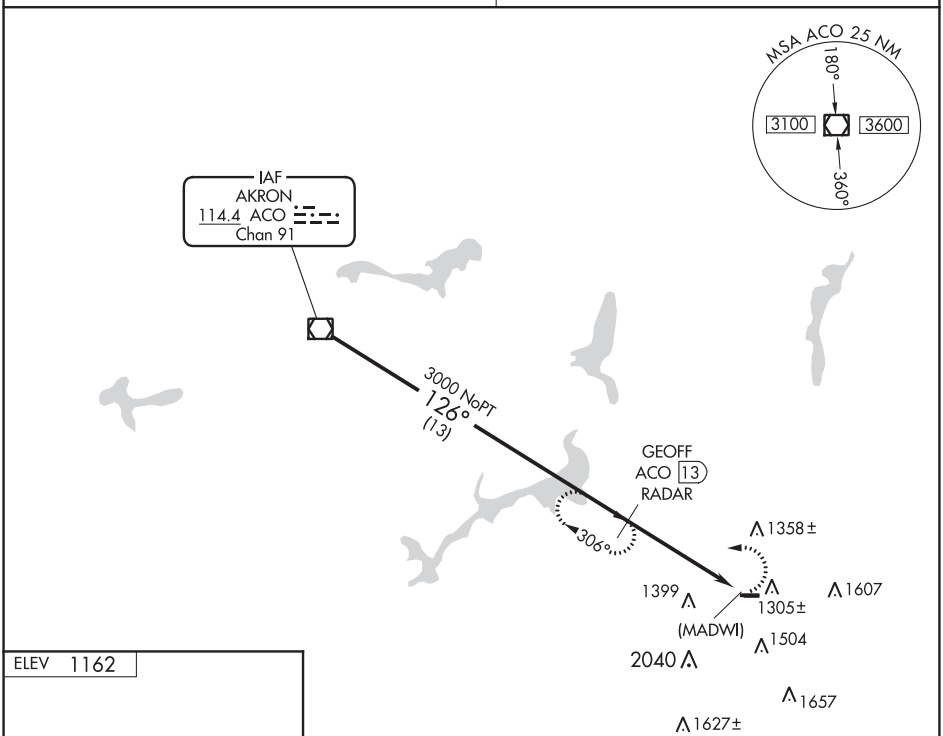
NA

Obtain local altimeter on CTAF, when not received, use Youngstown altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 via ACO R-126 to GEOFF and hold.

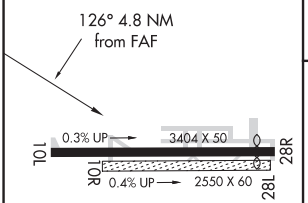
CLEVELAND APP CON ★
125.5 371.875

UNICOM
122.7 (CTAF) L



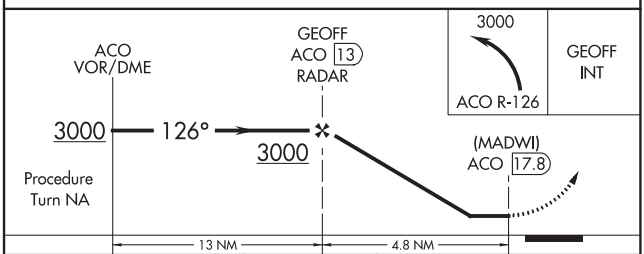
DME or RADAR REQUIRED

ELEV 1162



LIRL Rwy 10L-28R L ★

FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36



CATEGORY	A	B	C	D
CIRCLING	1680-1 518 (600-1)		1720-1½ 558 (600-1½)	NA
YOUNGSTOWN ALTIMETER SETTING MINIMUMS				
CIRCLING	1740-1 578 (600-1)		1780-1¾ 618 (700-1¾)	NA

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VOR RWY 17
TRI-CITY (3G6)

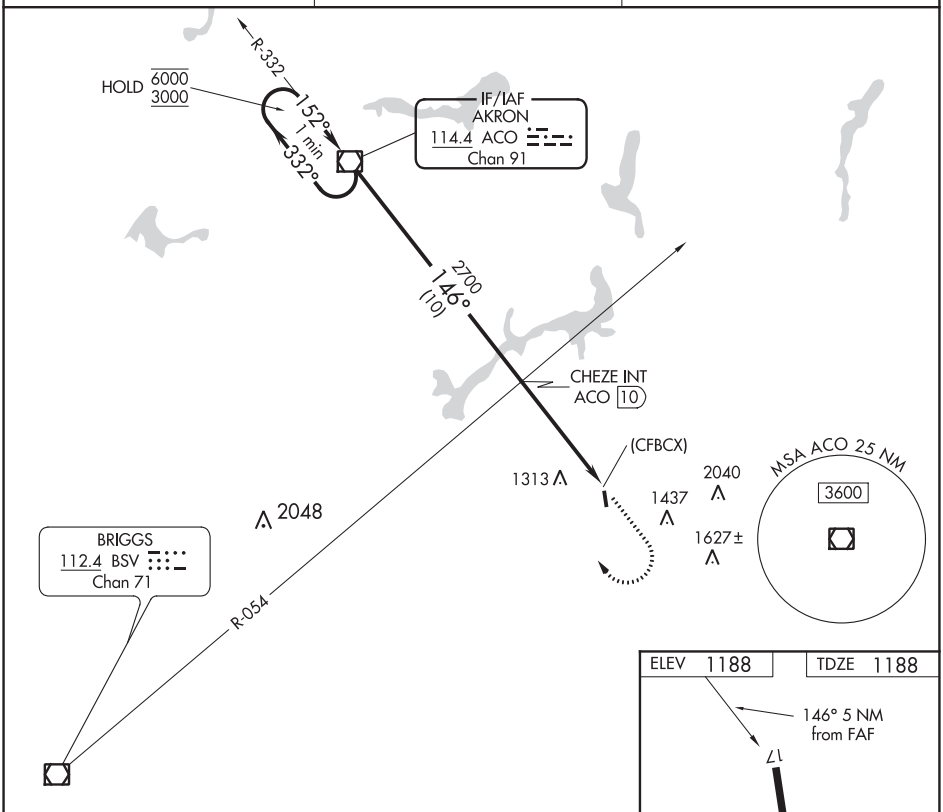
VOR/DME ACO	APP CRS	Rwy ldg	2768
114.4	146°	TDZE	1188
Chan 91		Apt Elev	1188

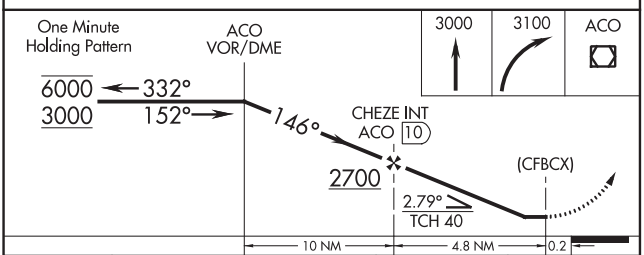
Procedure NA at night. Rwy 17 helicopter visibility reduction below 1 SM NA. Use Akron-Canton Rgnl altimeter setting, when not received, procedure NA.

NA

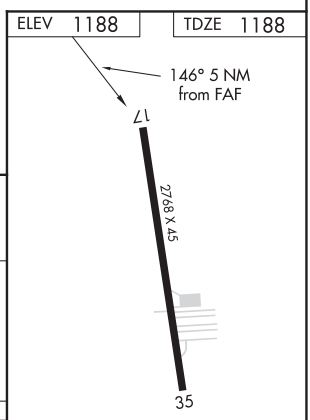
MISSED APPROACH: Climb to 3000 then climbing right turn to 3100 direct ACO VOR/DME and hold.

CAK ASOS	CLEVELAND APP CON ★	CTAF
121.05	125.5 371.875	122.9 L





CATEGORY	A	B	C	D
S-17	1680-1	492 (500-1)	1680-1⅜ 492 (500-1⅜)	NA
C CIRCLING	1680-1 492 (500-1)	1800-1 612 (700-1)	1920-2 732 (800-2)	NA



LIRL Rwy 17-35 L ★

FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

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SEYMOUR, INDIANA — AL-573 (FAA) — 21056

RNAV (GPS) RWY 5
FREEMAN MUNI (SER)

WAAS CH 53704 W05A	APP CRS 046°	Rwy ldg 6000	TDZE 575	Apt Elev 583

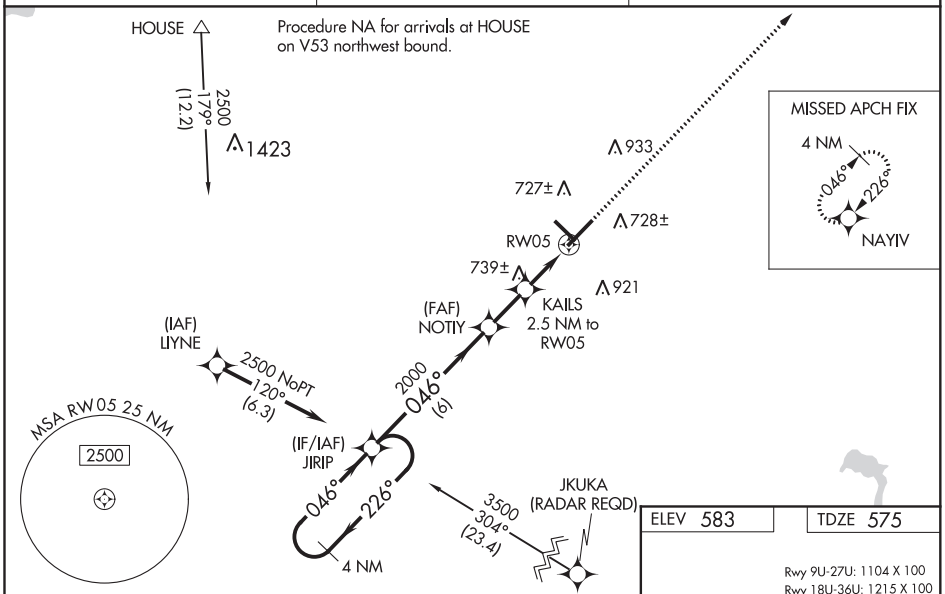
NA

Baro-VNAV NA when using Louisville Muhammad Ali Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C(130°F). When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting and increase all DA 117 feet and all MDA 120 feet; increase LPV all Cats visibility ⅜ mile, LNAV/VNAV all Cats and Circling Cat C/D visibility ½ mile and LNAV Cat C/D visibility ¼ mile. For inoperative ODALS, increase LNAV/VNAV all Cats visibility to 1½ miles and LNAV Cat C/D visibility to 1¼ miles. DME/DME RNP-0.3 NA. VDP NA with Louisville Muhammad Ali Intl altimeter setting. For inoperative ODALS when using Louisville Muhammad Ali Intl altimeter setting, increase LNAV/VNAV all Cats visibility to 2 miles and LNAV Cat C/D visibility to 1⅝ miles. Helicopter visibility reduction below ¾ SM NA.

ODALS

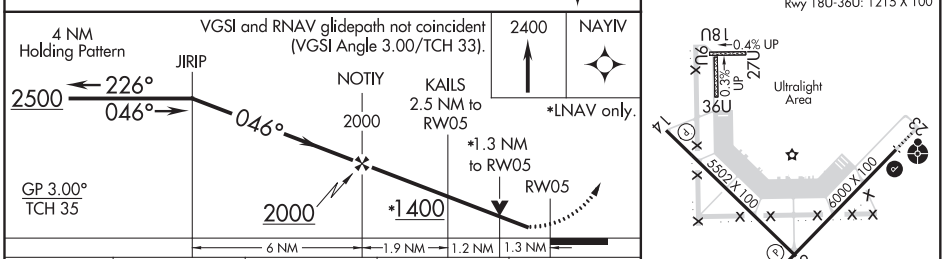
MISSED APPROACH: Climb to 2400 direct NAYIV and hold.

AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.425	124.775 269.45	122.8 (CTAF) L



ELEV 583 — TDZE 575

Rwy 9U-27U: 1104 X 100
Rwy 18U-36U: 1215 X 100



CATEGORY	A	B	C	D
LPV DA	825-¾ 250 (300-¾)			
LNAV/VNAV DA	1020-1⅜ 445 (500-1⅜)			
LNAV MDA	1000-¾ 425 (500-¾)		1000-1⅛ 425 (500-1⅛)	
C CIRCLING	1040-1 457 (500-1)	1080-1 497 (500-1)	1300-2 717 (800-2)	1300-2¼ 717 (800-2¼)

MIRL Rwys 5-23 and 14-32 L
REIL Rwys 5, 14, 23 and 32 L

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WAAS CH 58003 W14A	APP CRS 136°	Rwy ldg 5502 TDZE 583 Apt Elev 583

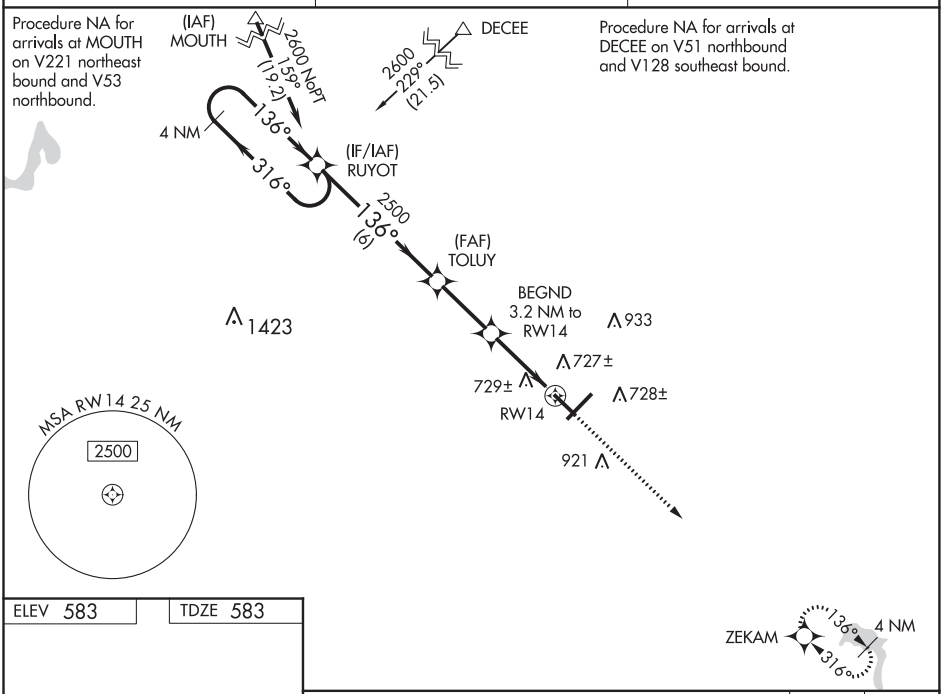
RNAV (GPS) RWY 14
FREEMAN MUNI (SER)

T A NA

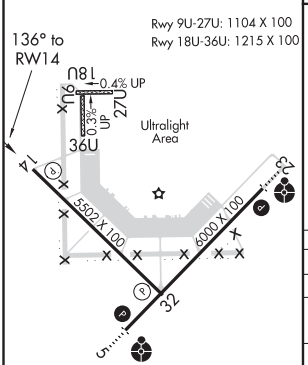
Baro-VNAV and VDP NA when using Louisville Muhammad Ali Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting and increase all DA 117 feet and all MDA 120 feet; increase LPV all Cats, LNAV/VNAV all Cats and Circling Cat C/D visibility ½ mile, and LNAV Cat C/D visibility ¼ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2400 direct ZEKAM and hold.

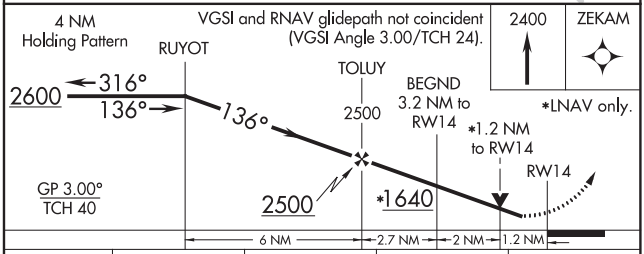
AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.425	124.775 269.45	122.8 (CTAF) L



ELEV 583 TDZE 583



MIRL Rwys 5-23 and 14-32 L
REIL Rwys 5, 14, 23 and 32 L



CATEGORY	A	B	C	D
LPV DA	860-1 277 (300-1)			
LNAV/VNAV DA	1037-1½ 454 (500-1½)			
LNAV MDA	980-1 397 (400-1)		980-1⅛ 397 (400-1⅛)	
C CIRCLING	1040-1 457 (500-1)	1080-1 497 (500-1)	1300-2 717 (800-2)	1300-2¼ 717 (800-2¼)

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EC-2, 25 FEB 2021 to 22 APR 2021

SEYMOUR, INDIANA | AL-573 (FAA) | 21056

WAAS CH 48903 W23A	APP CRS 226°	Rwy ldg 6000 TDZE 580 Apt Elev 583

RNAV (GPS) RWY 23
FREEMAN MUNI (SER)

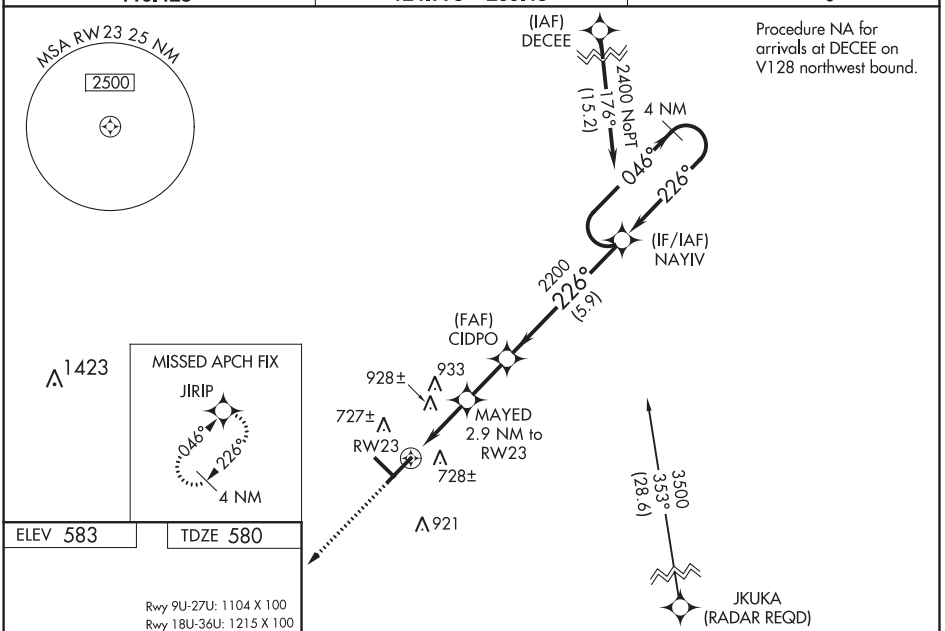
T A NA

Baro-VNAV NA when using Louisville Muhammad Ali Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting and increase all DA 117 feet and all MDA 120 feet; increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cat C/D visibility ⅜ mile, and Circling Cat C/D visibility ½ mile. For inoperative ODALS, increase LNAV/VNAV all Cats visibility to ⅞, and LNAV Cat C/D visibility to 1⅝. DME/DME RNP-0.3 NA. VDP NA with Louisville Muhammad Ali Intl altimeter setting. For inoperative ODALS when using Louisville Muhammad Ali Intl altimeter setting, increase LNAV/VNAV all Cats visibility to 1⅜, and LNAV Cat C/D visibility to 2½.

ODALS

MISSED APPROACH: Climb to 2500 direct JIRIP and hold.

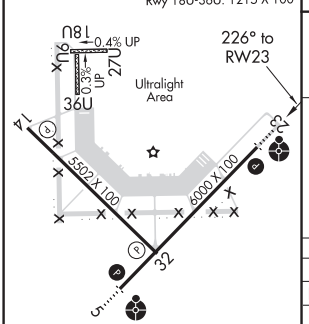
AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.425	124.775 269.45	122.8 (CTAF) L



Procedure NA for arrivals at DECEE on V128 northwest bound.

ELEV 583 | TDZE 580

Rwy 9U-27U: 1104 X 100
Rwy 18U-36U: 1215 X 100

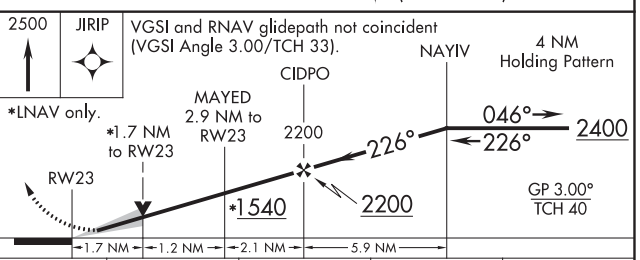


MIRL Rwys 5-23 and 14-32 L
REIL Rwys 5, 14, 23 and 32 L

2500 | JIRIP

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 33).

*LNAV only.



CATEGORY	A	B	C	D
LPV DA	830-¾ 250 (300-¾)			
LNAV/VNAV DA	858-¾ 278 (300-¾)			
LNAV MDA	1160-¾ 580 (600-¾)		1160-1½ 580 (600-1½)	
C CIRCLING	1160-1 577 (600-1)		1300-2 717 (800-2)	1300-2¼ 717 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 99403 W32A	APP CRS 316°	Rwy ldg 5502 TDZE 574 Apt Elev 583

RNAV (GPS) RWY 32
FREEMAN MUNI (SER)

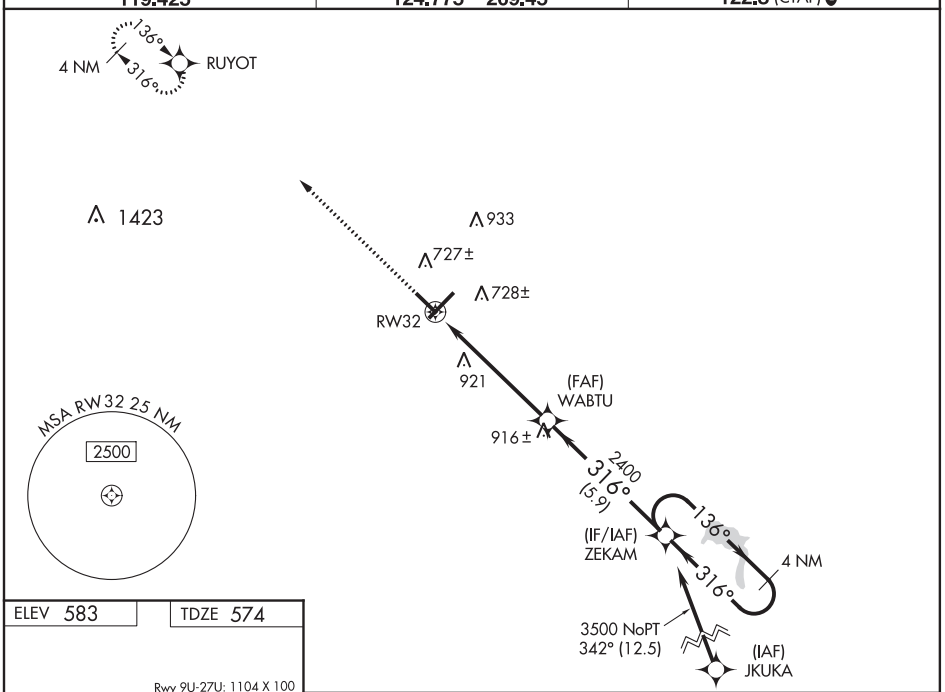
RNP APCH.

NA

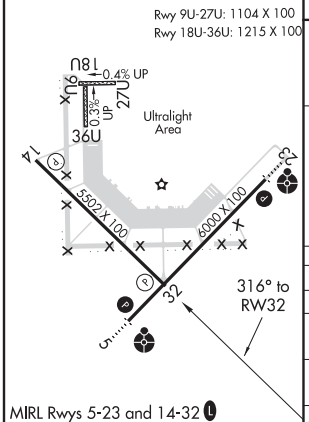
Baro-VNAV NA when using Louisville Muhammad Ali Intl altimeter setting. When local altimeter setting not received, use Louisville Muhammad Ali Intl altimeter setting and increase all DA 117 feet and all MDA 120 feet; increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cat C/D visibility ⅜ mile and Circling Cat C/D visibility ½ mile. VDP NA with Louisville Muhammad Ali Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. Rwy 32 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct RUYOT and hold.

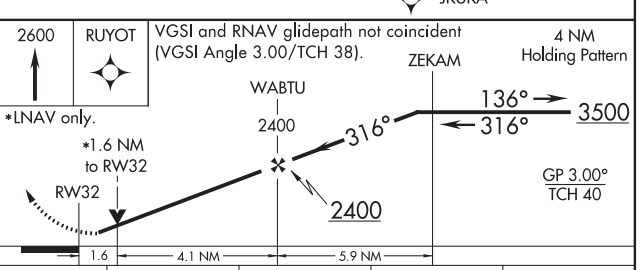
AWOS-3	INDIANAPOLIS CENTER	UNICOM
119.425	124.775 269.45	122.8 (CTAF) L



ELEV 583	TDZE 574



MIRL Rwys 5-23 and 14-32 L
REIL Rwys 5, 14, 23 and 32 L



CATEGORY	A	B	C	D
LPV DA	859-1 285 (300-1)			
LNAV/VNAV DA	853-1 279 (300-1)			
LNAV MDA	1140-1 566 (600-1)		1140-1⅝ 566 (600-1⅝)	
C CIRCLING	1140-1 557 (600-1)		1300-2 717 (800-2)	1300-2¼ 717 (800-2¼)

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SHELBY, OHIO

AL-5502 (FAA)

20254

VOR-A

SHELBY COMMUNITY (12G)

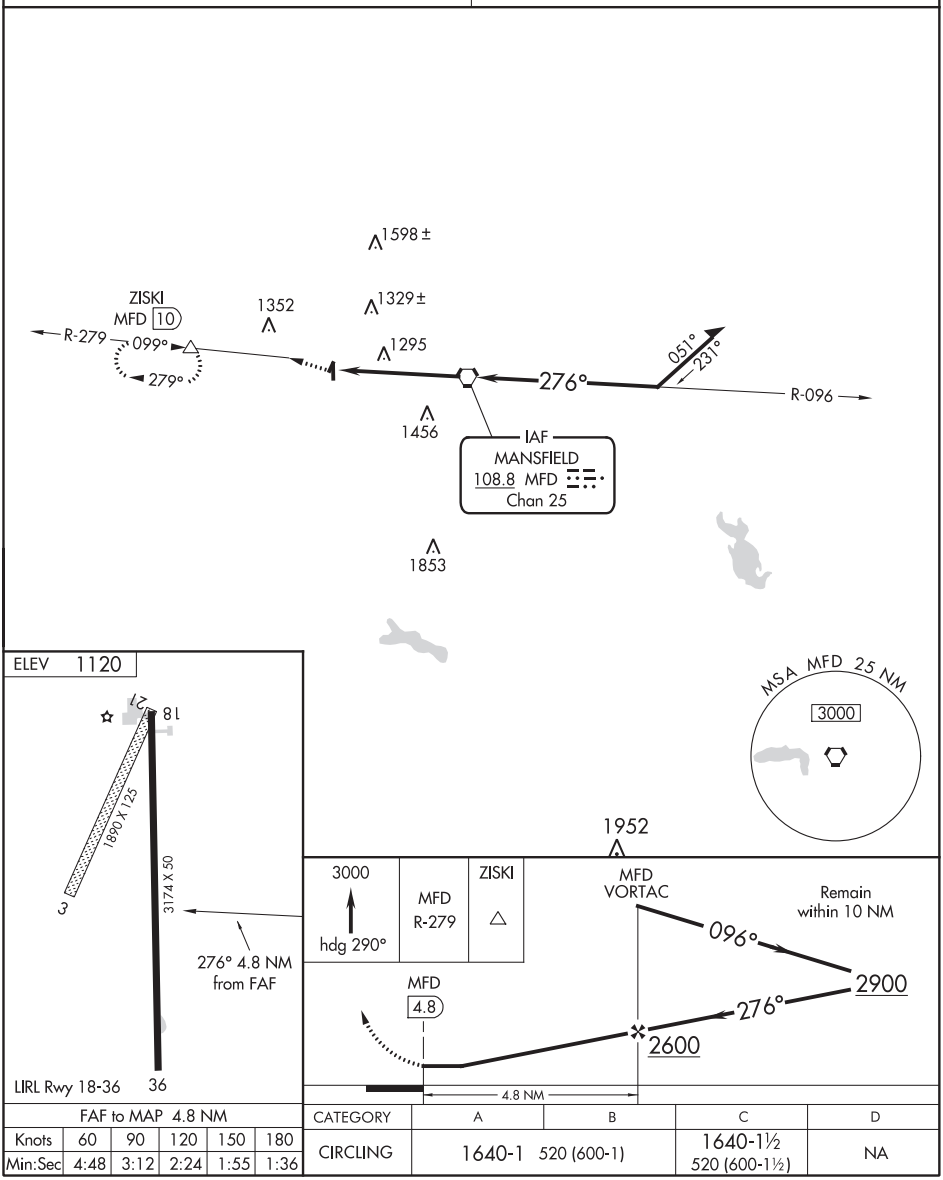
VORTAC MFD	APP CRS	Rwy ldg	N/A
108.8	276°	TDZE	N/A
Chan 25		Apt Elev	1120

DME required.

Use Mansfield altimeter setting. Procedure NA at night. Circling to Rwy 3, 21 NA.

MISSED APPROACH: Climb to 3000 via heading 290° and MFD R-279 to ZISKI Int/MFD 10 DME and hold.

CLEVELAND APP CON ★	UNICOM
124.2 360.65	122.8 (CTAF)



FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

CATEGORY	A	B	C	D
CIRCLING	1640-1 520 (600-1)		1640-1½ 520 (600-1½)	NA

SHELBY, OHIO
Amdt 5A 13SEP18

40°52′N-82°42′W

SHELBY COMMUNITY (12G)
VOR-A

EC-2, 25 FEB 2021 to 22 APR 2021

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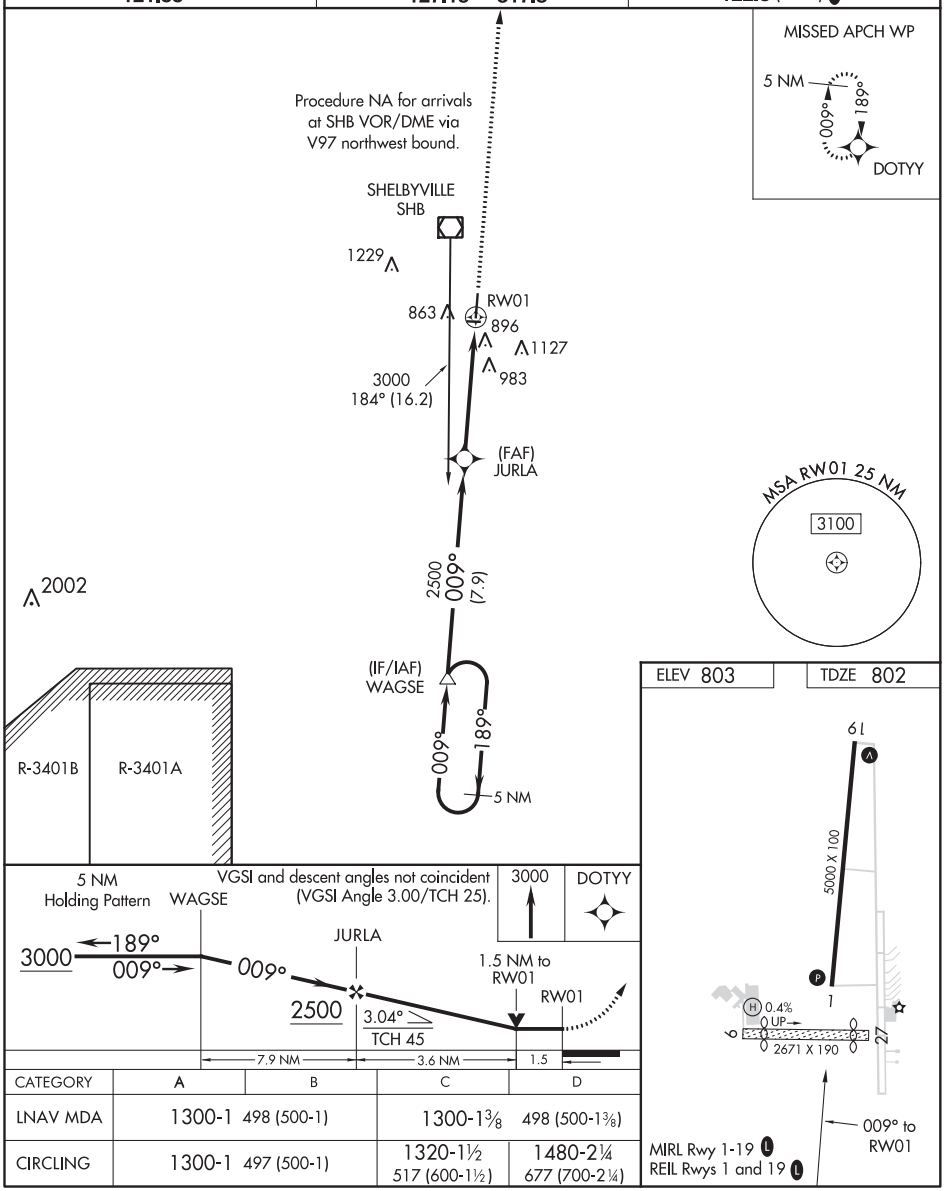
APP CRS	Rwy ldg	5000
009°	TDZE	802
	Apt Elev	803

RNAV (GPS) RWY 1
SHELBYVILLE MUNI (GEZ)

DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. VDP NA when using Indianapolis Intl altimeter setting. Circling Rwy 9, 27 NA at night. If local altimeter setting not received, use Indianapolis Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climb to 3000 direct DOTYY and hold.

ASOS	INDIANAPOLIS APP CON	UNICOM
121.55	127.15 317.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1300-1 498 (500-1)		1300-1⅜ 498 (500-1⅜)	
CIRCLING	1300-1 497 (500-1)		1320-1½ 517 (600-1½)	1480-2¼ 677 (700-2¼)

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SHELBYVILLE, INDIANA

AL-5514 (FAA)

20198

RNAV (GPS) RWY 19
SHELBYVILLE MUNI (GEZ)

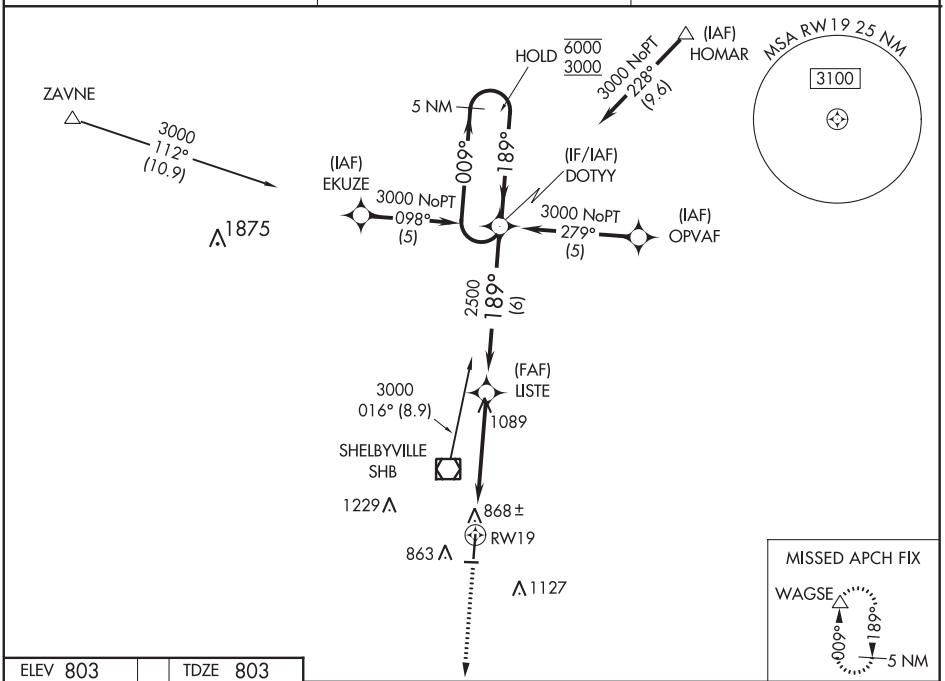
WAAS CH 53603 W19A	APP CRS 189°	Rwy ldg 5000 TDZE 803 Apt Elev 803

RNP APCH.

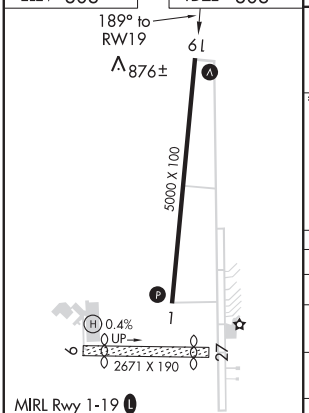
Circling Rwy 9, 27 NA at night. Baro-VNAV NA when using Indianapolis Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. VDP NA when using Indianapolis Intl altimeter setting. When local altimeter setting not received, use Indianapolis Intl altimeter setting: increase LPV DA to 1152 feet and LNAV/VNAV DA to 1199 feet; increase all MDAs 60 feet and LNAV visibility Cats C and D ⅛ SM.

MISSED APPROACH: Climb to 3000 direct WAGSE and hold.

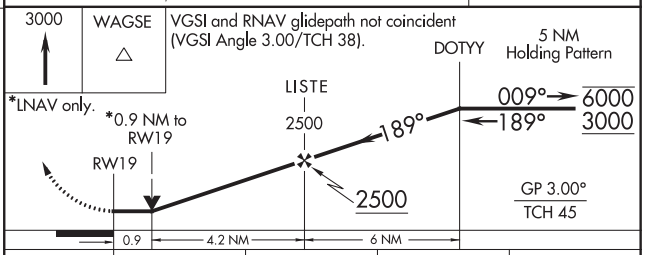
ASOS	INDIANAPOLIS APP CON	UNICOM
121.55	127.15 317.8	122.8 (CTAF) L



ELEV 803 | TDZE 803



MIRL Rwy 1-19 L
REIL Rwys 1 and 19 L



CATEGORY	A	B	C	D
LPV DA	1095-1 292 (300-1)			
LNAV/ VNAV DA	1142-1¼ 339 (400-1¼)			
LNAV MDA	1140-1 337 (400-1)			
CIRCLING	1200-1 397 (400-1)	1260-1 457 (500-1)	1320-1½ 517 (600-1½)	1480-2¼ 677 (700-2¼)

SHELBYVILLE, INDIANA
Amdt 1C 13SEP18

39°35'N-85°48'W

SHELBYVILLE MUNI (GEZ)
RNAV (GPS) RWY 19

EC-2, 25 FEB 2021 to 22 APR 2021

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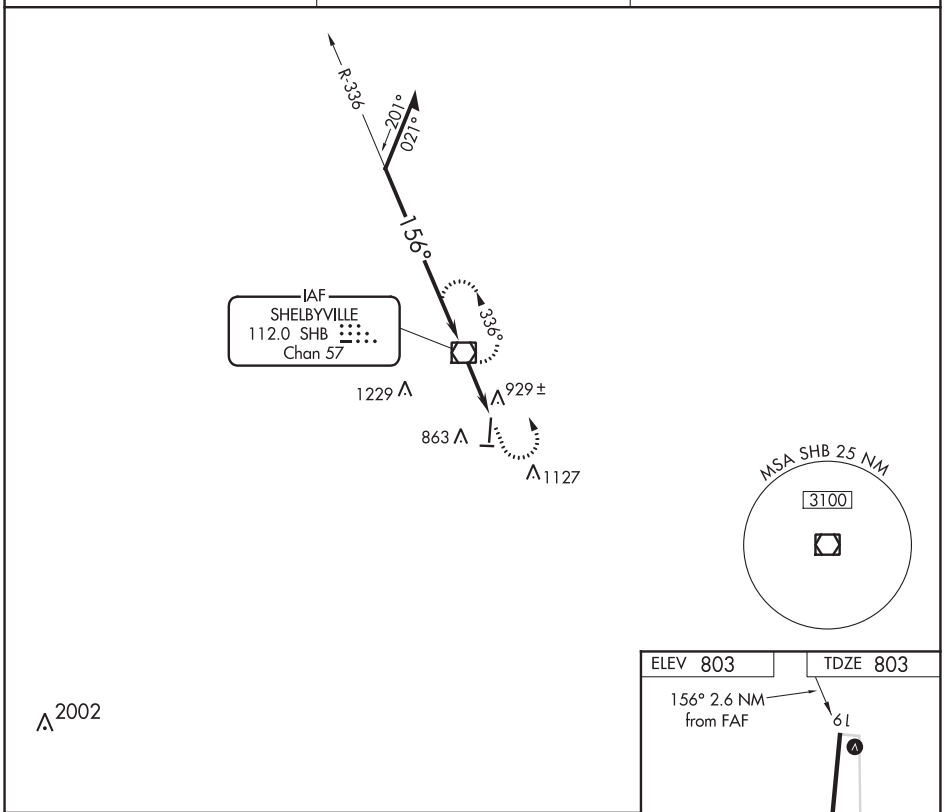
VOR RWY 19
SHELBYVILLE MUNI (GEZ)

VOR/DME SHB	APP CRS	Rwy ldg	5000
112.0	156°	TDZE	803
Chan 57		Apt Elev	803

Circling Rwy 9, 27 NA at night.

MISSED APPROACH: Climb to 1800 then climbing left turn to 2400 direct SHB VOR/DME and hold.

ASOS	INDIANAPOLIS APP CON	UNICOM
121.55	127.15 317.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
S-19	1180-1 377 (400-1)			1180-1¼ 377 (400-1¼)
CIRCLING	1240-1 437 (500-1)	1260-1 457 (500-1)	1320-1½ 517 (600-1½)	1480-2¼ 677 (700-2¼)

FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

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EC-2, 25 FEB 2021 to 22 APR 2021

(DAWNN1.DAWNN) 20086

DAWNN ONE DEPARTURE

AL-5514 (FAA)

SHELBYVILLE MUNI (GEZ)
SHELBYVILLE, INDIANA

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.55
INDIANAPOLIS DEP CON
127.15 317.8

BRICKYARD
116.3 VHP
Chan 110

R-174
28
SNEVA RADAR
N39°21.43′
W86°18.96′

R-098
TERRE HAUTE
115.3 TTH
Chan 100

TAKEOFF MINIMUMS:
Rwys 1, 19: Standard.
Rwys 9, 27: NA - Environmental

47
R-113
HOOSIER
110.2 OOM
Chan 39

FOYTT RADAR
N39°02.50′
W86°16.85′

6000
174°
75

R-3401B
R-3401A

DAWNN
N38°34.10′
W86°13.72′
10000
(For LOUISVILLE Transition)

10000
*3000
131°
(41)
R-311

6000
*2300
182°
(40)
R-002

LOUISVILLE
114.8 IIU
Chan 95
N38°06.21′-W85°34.65′
L-26-27, H-5-10

MYSTIC
108.2 MYS
N37°53.64′-W86°14.67′
L-16, H-5-10

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021
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DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS/AIRPORTS: Climb on assigned heading to assigned altitude. Thence....

....on RADAR vectors to join VHP R-174 to DAWNN INT then on transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

LOUISVILLE TRANSITION (DAWNN1.IIU): From over DAWNN INT on IIU R-311 to IIU VORTAC.
MYSTIC TRANSITION (DAWNN1.MYS): From over DAWNN INT on MYS R-002 to MYS VOR.

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(OOM5.OOM) 20086

HOOSIER FIVE DEPARTURE

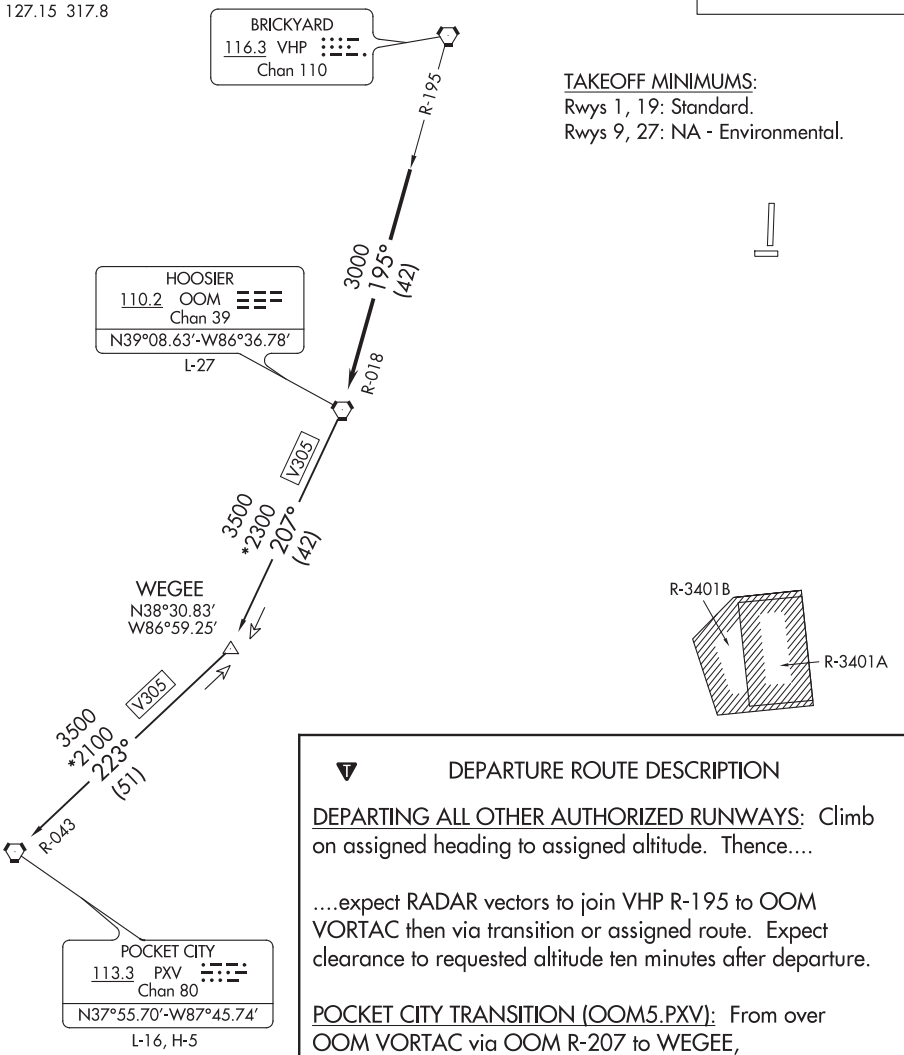
AL-5514 (FAA)

SHELBYVILLE MUNI (GEZ)
SHELBYVILLE, INDIANA

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.55
INDIANAPOLIS DEP CON
127.15 317.8

TAKEOFF MINIMUMS:
Rwys 1, 19: Standard.
Rwys 9, 27: NA - Environmental.



DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-195 to OOM VORTAC then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

POCKET CITY TRANSITION (OOM5.PXV): From over OOM VORTAC via OOM R-207 to WEGEE, then via PXV R-043 to PXV VORTAC.

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

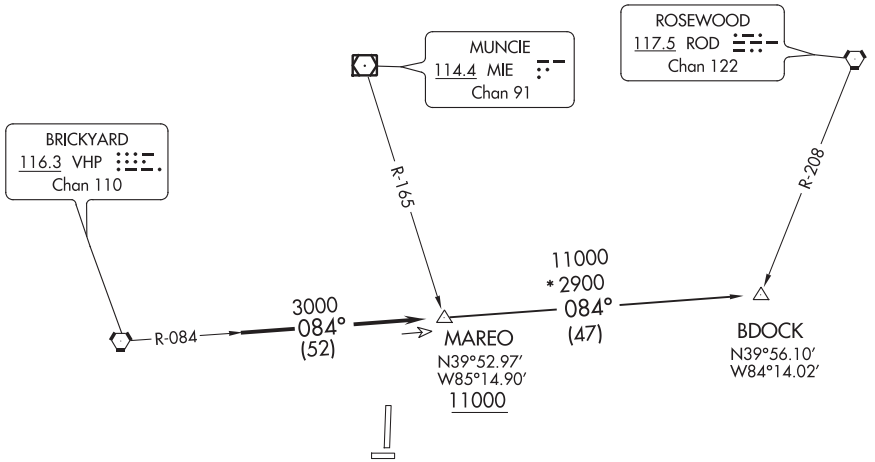
NOTE: Chart not to scale.

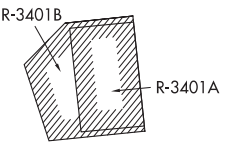
EC-2, 25 FEB 2021 to 22 APR 2021

ASOS
121.55
INDIANAPOLIS DEP CON
127.15 317.8

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS
Rwys 1, 19: Standard.
Rwys 9, 27: NA - Environmental.





NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-084 to MAREO INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BDOCK TRANSITION (MAREO5.BDOCK): From over MAREO INT via VHP R-084 to BDOCK INT.

(MEARZ6.MEARZ) 20086

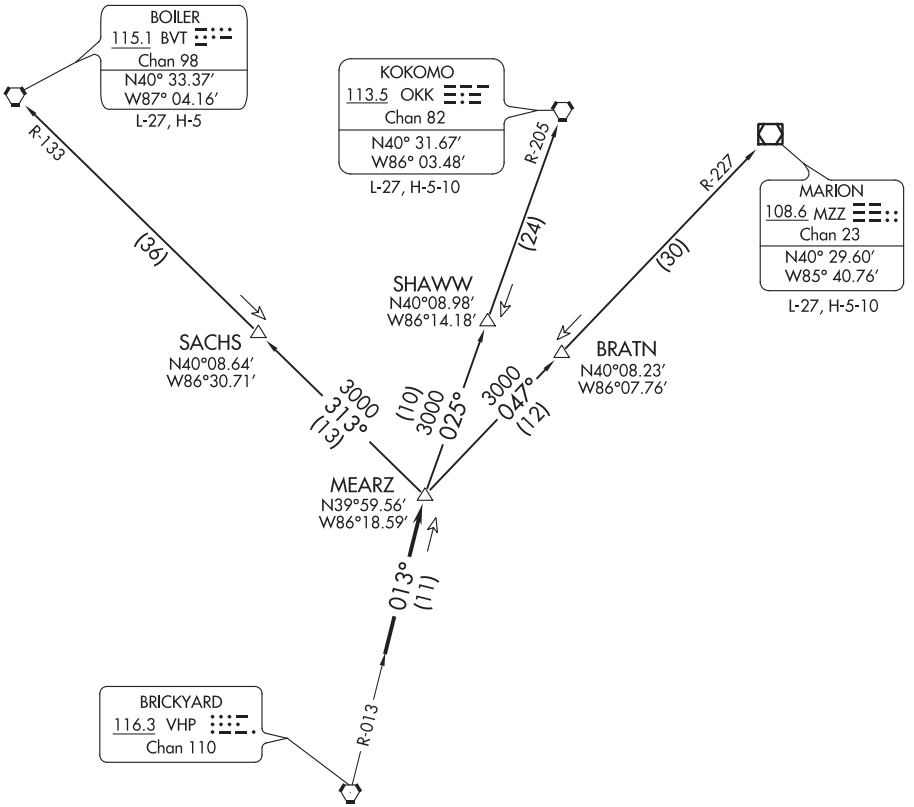
MEARZ SIX DEPARTURE

AL-5514 (FAA)

SHELBYVILLE MUNI (GEZ)
SHELBYVILLE, INDIANA

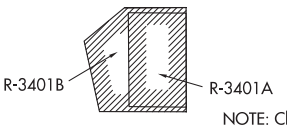
TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.55
INDIANAPOLIS DEP CON
127.15 317.8



TAKEOFF MINIMUMS
Rwys 1, 19: Standard.
Rwys 9, 27: NA - Environmental

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

EC-2, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence....

....expect RADAR vectors to join VHP R-013 to MEARZ then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

BOILER TRANSITION (MEARZ6.BVT): From over MEARZ via BVT R-133 to BVT VORTAC.
KOKOMO TRANSITION (MEARZ6.OKK): From over MEARZ via OKK R-205 to OKK VORTAC.
MARION TRANSITION (MEARZ6.MZZ): From over MEARZ via MZZ R-227 to MZZ VOR/DME.

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(ROCKY1.ROCKY) 18032

ROCKY ONE DEPARTURE

AL-5514 (FAA)

SHELBYVILLE MUNI (GEZ)
SHELBYVILLE, INDIANA

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
121.55
INDIANAPOLIS DEP CON
127.15 317.8

SPINNER
112.7 SPI
Chan 74
N39°50.38′-W89°40.66′
L-27, H-5

BRICKYARD
116.3 VHP
Chan 110

TERRE HAUTE
115.3 TTH
Chan 100
N39°29.34′-W87°14.94′

R-112
7000
*3100
292°
(42)

V14-50
2700
244°
(45)

5000
273°
(74)

ROCKY
N39°35.28′
W88°50.01′
10000
(For ST LOUIS Transition only)

10000
*2300
239°
(88)

R-059

ST LOUIS
117.4 STL
Chan 121
N38°51.64′-W90°28.94′
L-27, H-5

TAKEOFF MINIMUMS
Rwys 1, 19: Standard.
Rwys 9, 27: NA - Environmental.

R-3401B
R-3401A

NOTE: RADAR required.
NOTE: Select appropriate localizer/DME frequency/channel prior to departure.
NOTE: Turbojets accelerate to 250K until reaching 10000, if unable advise ATC.
NOTE: Assigned to aircraft with a requested altitude of 11000 or above.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

DEPARTING ALL OTHER AUTHORIZED RUNWAYS: Climb on assigned heading to assigned altitude. Thence . . . .

. . . . expect RADAR vectors to join VHP R-244 to TTH VORTAC, then via TTH R-273 to ROCKY INT then via transition or assigned route. Expect clearance to requested altitude ten minutes after departure.

SPINNER TRANSITION (ROCKY1.SPI): From over ROCKY INT on SPI R-112 to SPI VORTAC.
ST LOUIS TRANSITION (ROCKY1.STL): From over ROCKY INT on STL R-059 to STL VORTAC.

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3110
052°	TDZE	932
	Apt Elev	936

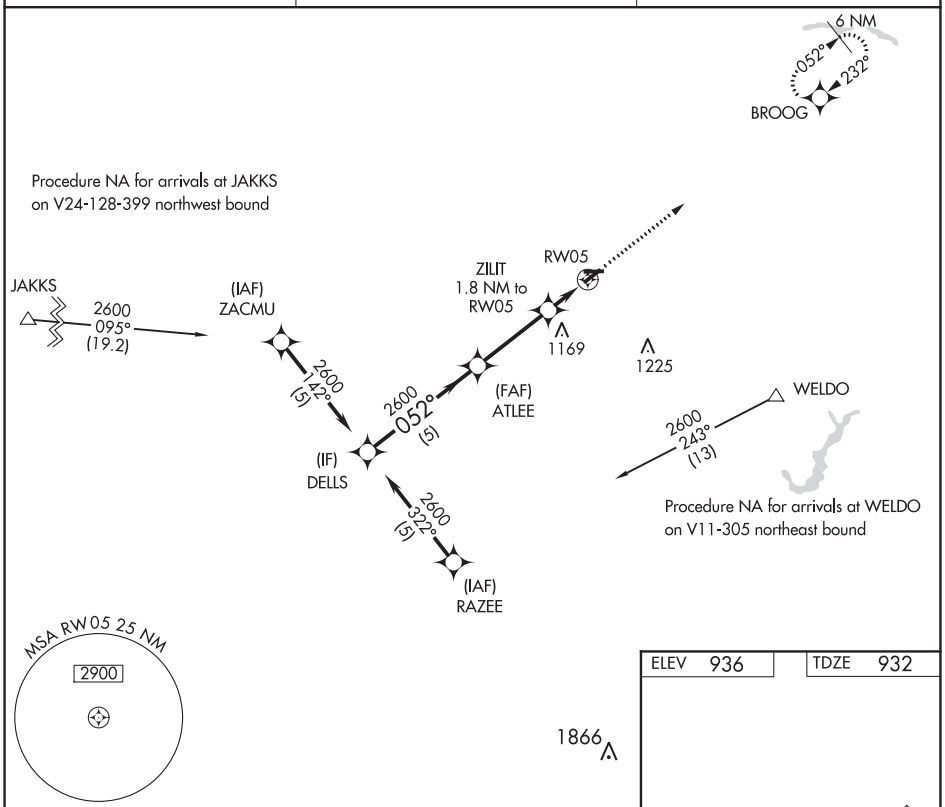
RNAV (GPS) RWY 5
SHERIDAN (5I4)

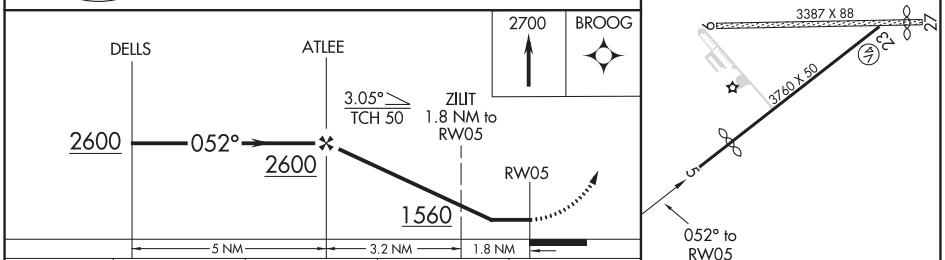
RNP APCH.

A NA Circling NA to Rwys 9 and 27. Procedure NA at night. Rwy 5 helicopter visibility reduction below 1 SM NA. Use Indianapolis Executive altimeter setting.

MISSED APPROACH: Climb to 2700 direct BROOG and hold.

TYQ AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
120.725	124.65 317.8	123.075 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1400-1 468 (500-1)		1400-1⅜ 468 (500-1⅜)	NA
C CIRCLING	1460-1 524 (600-1)	1480-1 544 (600-1)	1500-1½ 564 (600-1½)	NA

LIRL Rwy 5-23 L

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EC-2, 25 FEB 2021 to 22 APR 2021

SHERIDAN, INDIANA

AL-6252 (FAA)

20282

RNAV (GPS) RWY 23
SHERIDAN (5I4)

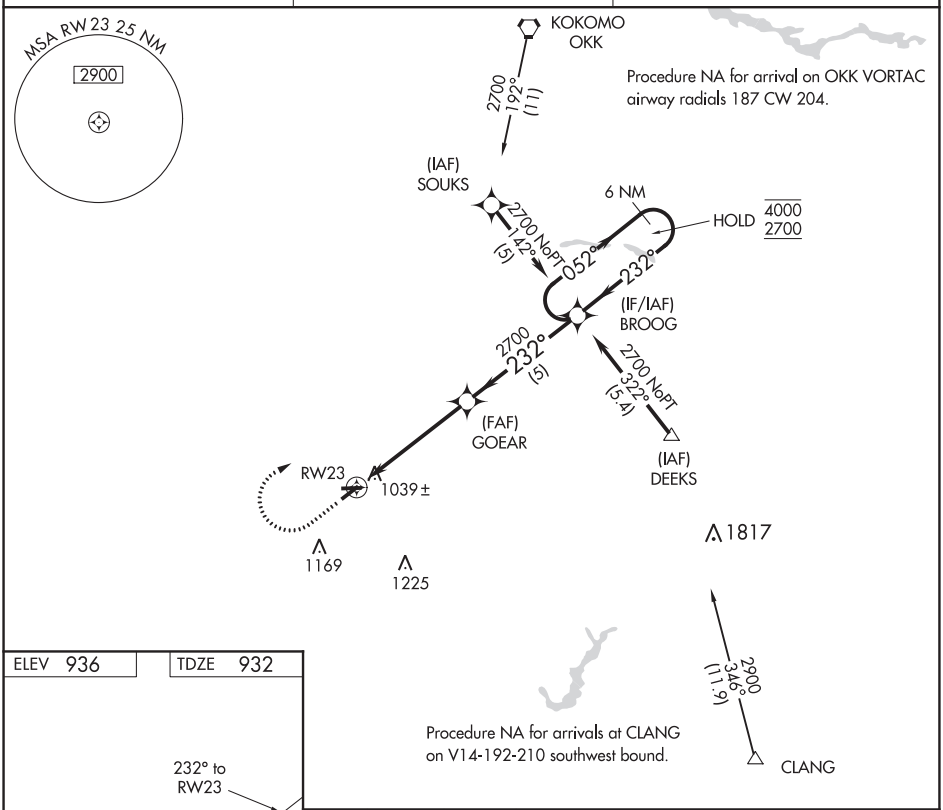
APP CRS	Rwy ldg	3760
232°	TDZE	932
	Apt Elev	936

RNP APCH.

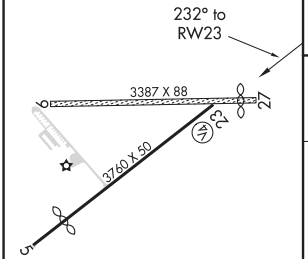
A NA Circling NA to Rwys 9 and 27. Procedure NA at night. Rwy 23 helicopter visibility reduction below 1 SM NA. Use Indianapolis Executive altimeter setting.

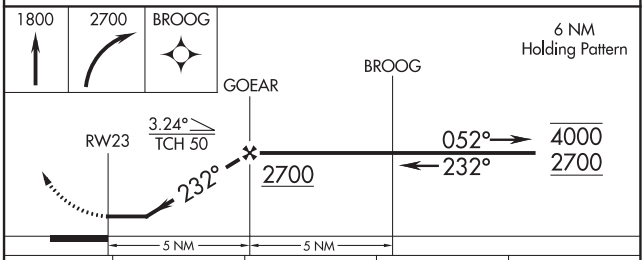
MISSED APPROACH: Climb to 1800 then climbing right turn to 2700 direct BROOG and hold.

TYQ AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
120.725	124.65 317.8	123.075 (CTAF) L



ELEV 936 | TDZE 932





CATEGORY	A	B	C	D
LNAV MDA	1380-1 448 (500-1)		1380-1⅜ 448 (500-1⅜)	NA
C CIRCLING	1460-1 524 (600-1)	1480-1 544 (600-1)	1500-1½ 564 (600-1½)	NA

LIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021

VOR-A
SHERIDAN (5I4)

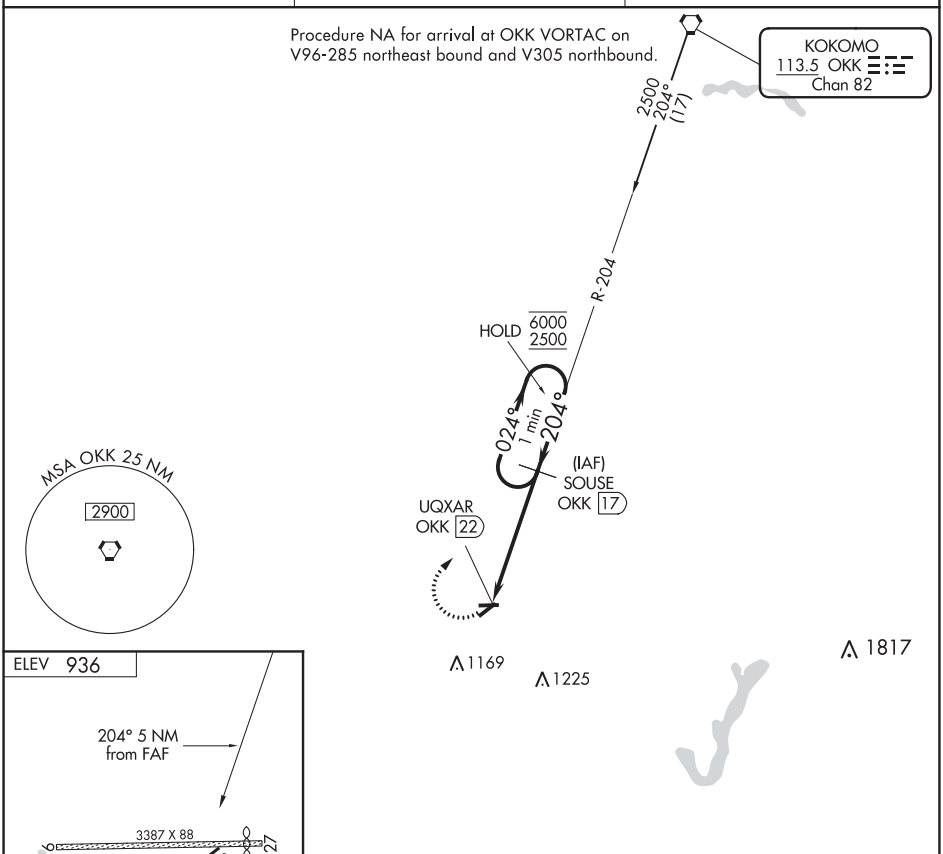
VORTAC OKK	APP CRS	Rwy ldg	N/A
113.5	204°	TDZE	N/A
Chan 82		Apt Elev	936

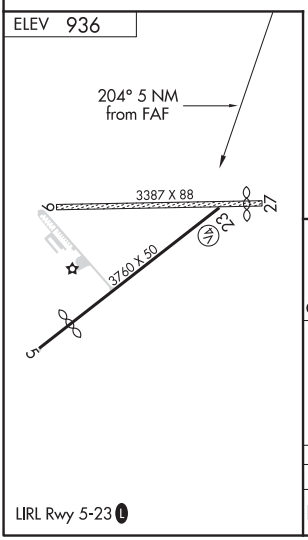
DME required.

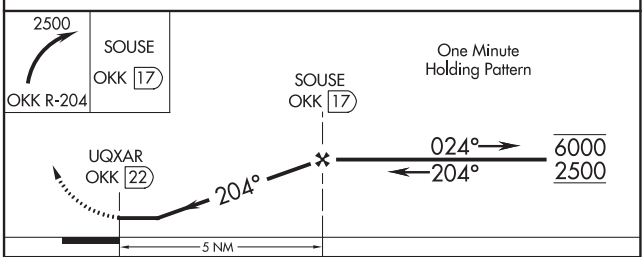
NA — Circling NA to Rwys 9 and 27. Procedure NA at night. Use Indianapolis Executive altimeter setting.

MISSED APPROACH: Climbing right turn to 2500 on OKK VORTAC R-204 to SOUSE/17 DME and hold.

TYQ AWOS-3PT	INDIANAPOLIS APP CON	UNICOM
120.725	124.65 317.8	123.075 (CTAF) L







CATEGORY	A	B	C	D
C CIRCLING	1460-1 524 (600-1)	1480-1 544 (600-1)	1500-1½ 564 (600-1½)	NA

LIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

SIDNEY, OHIO | AL-5047 (FAA) | 20366

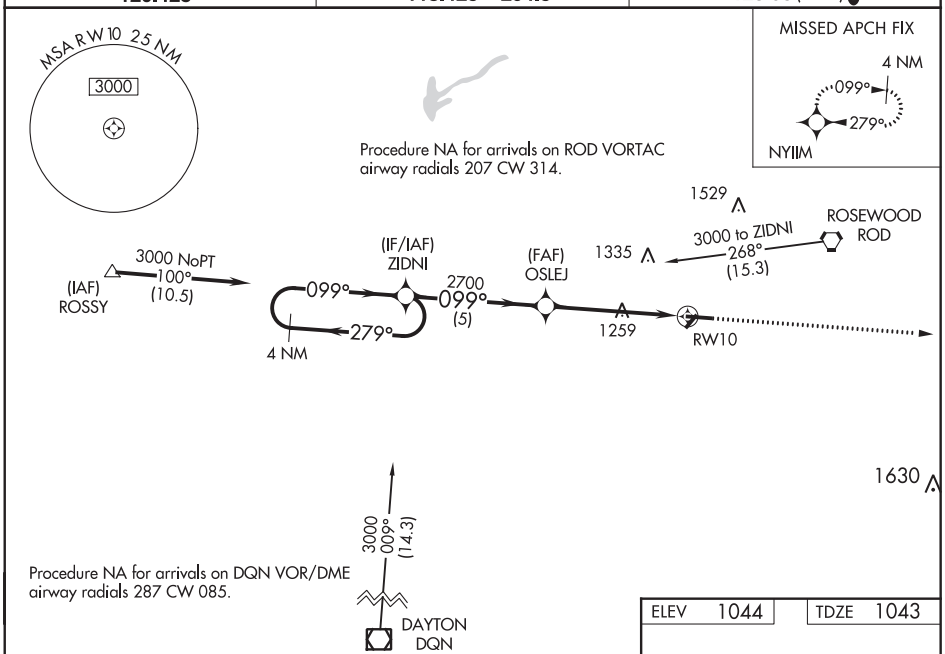
WAAS CH 77934 W10A	APP CRS 099°	Rwy ldg 5013 TDZE 1043 Apt Elev 1044

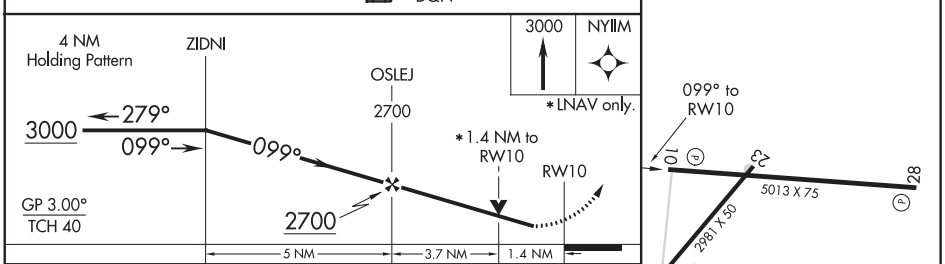
RNAV (GPS) RWY 10
SIDNEY MUNI (SCA)

T A NA For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. Baro-VNAV and VDP NA when using James M Cox Dayton Intl altimeter setting. Night Landing: Rwy 28 operational VGSI required, remain on or above VGSI glidepath until threshold. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase LPV all Cats and LNAV Cats C/D visibility ⅛ mile and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct NYIIM and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
120.425	118.425 294.5	123.05 (CTAF) L





ELEV 1044 | TDZE 1043

CATEGORY	A	B	C	D
LPV DA	1308-1 265 (300-1)			
LNAV/VNAV DA	1293-1 250 (300-1)			
LNAV MDA	1520-1 477 (500-1)		1520-1⅜ 477 (500-1⅜)	
C CIRCLING	1520-1 476 (500-1)		1640-1½ 596 (600-1½)	1640-2 596 (600-2)

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82234 W28A	APP CRS 279°	Rwy ldg 5013 TDZE 1044 Apt Elev 1044

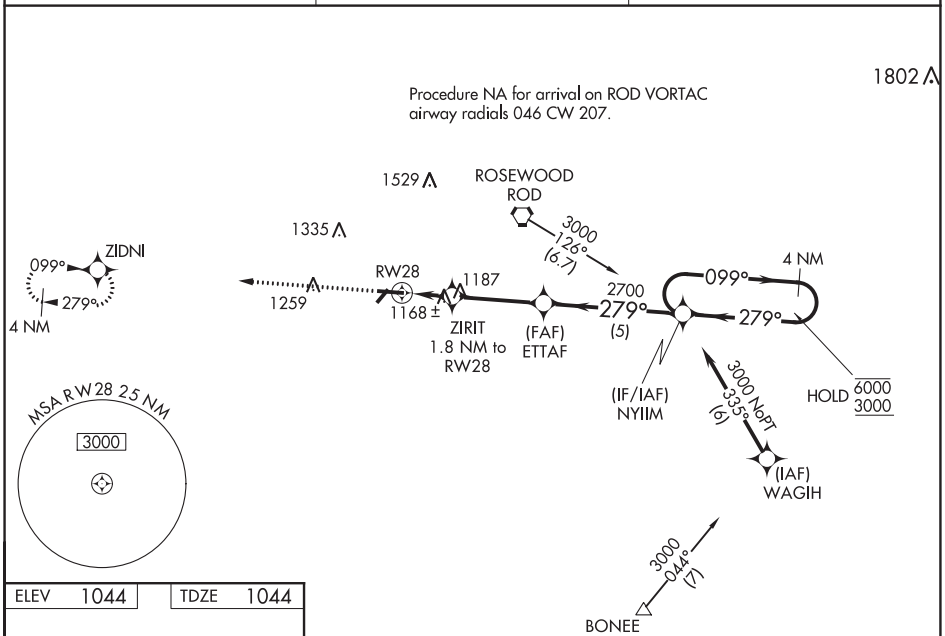
RNAV (GPS) RWY 28
SIDNEY MUNI (SCA)

RNP APCH.

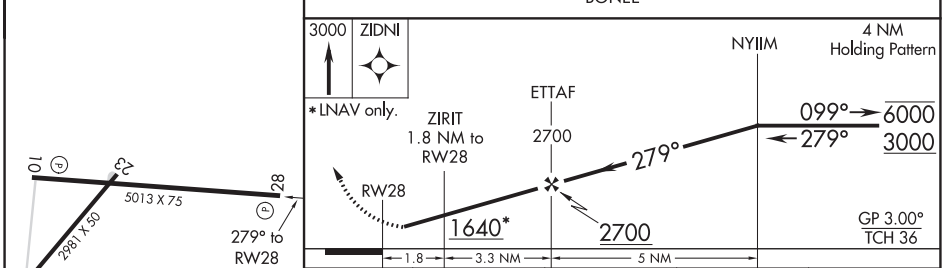
Rwy 28 helicopter visibility reduction below 1 SM NA. Baro-VNAV NA when using James M. Cox Dayton Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C or above 54°C. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting: increase LPV DA to 1355; increase LNAV/VNAV DA to 1365; increase all MDA 60 feet and LNAV Cat C visibility and Circling Cat C visibility ¼ SM. Straight-in Rwy 28 at night, operational VGSI required, remain at or above VGSI glidepath until threshold.

MISSED APPROACH: Climb to 3000 direct ZIDNI and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
120.425	118.425 294.5	123.05 (CTAF) L



ELEV 1044	TDZE 1044



CATEGORY	A	B	C	D
LPV DA	1302-1 258 (300-1)			NA
LNAV/VNAV DA	1312-1 268 (300-1)			NA
LNAV MDA	1420-1 376 (400-1)			NA
C CIRCLING	1460-1 416 (500-1)	1520-1 476 (500-1)	1640-1½ 596 (600-1½)	NA

MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

SIDNEY, OHIO | AL-5047 (FAA) | 20366

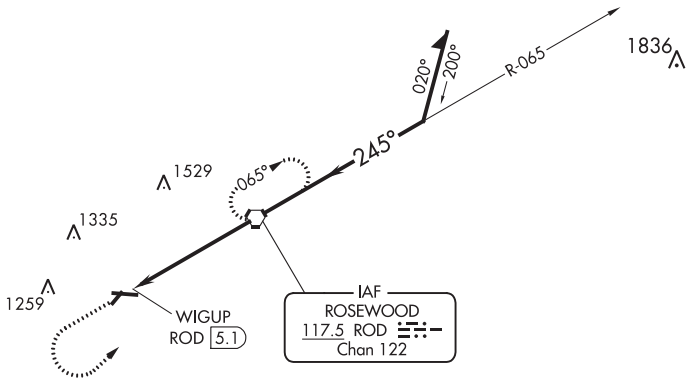
VOR-A
SIDNEY MUNI (SCA)

VORTAC ROD	APP CRS	Rwy ldg	N/A
117.5	245°	TDZE	N/A
Chan 122		Apt Elev	1044

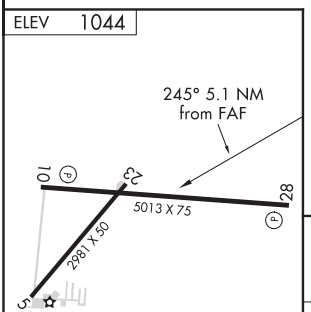
When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting and increase all MDAs 60 feet and increase Cat C visibility ¼ mile. Night Landing: Rwy 28 operational VGSI required, remain on or above VGSI glidepath until threshold. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 then left turn direct ROD VORTAC and hold.

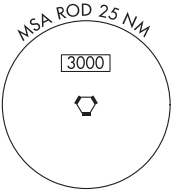
AWOS-3	COLUMBUS APP CON	UNICOM
120.425	118.425 294.5	123.05 (CTAF) L

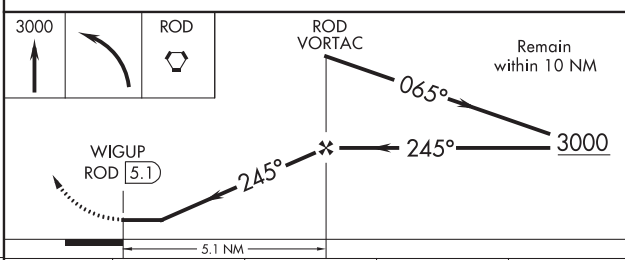


NoPT for arrivals on ROD Vortac airway radials 314 CW 088.



MIRL Rwy 10-28 L
REIL Rwys 10 and 28 L





FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
C CIRCLING	1540-1	496 (500-1)	1640-1½ 596 (600-1½)	1640-2 596 (600-2)

SIDNEY, OHIO
Orig 12NOV15

40°14′N-84°09′W

SIDNEY MUNI (SCA)
VOR-A

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 9R
SOUTH BEND INTL (SBN)

LOC I-UXW	APP CRS	Rwy ldg 8412
109.3	092°	TDZE 790
		Apt Elev 798

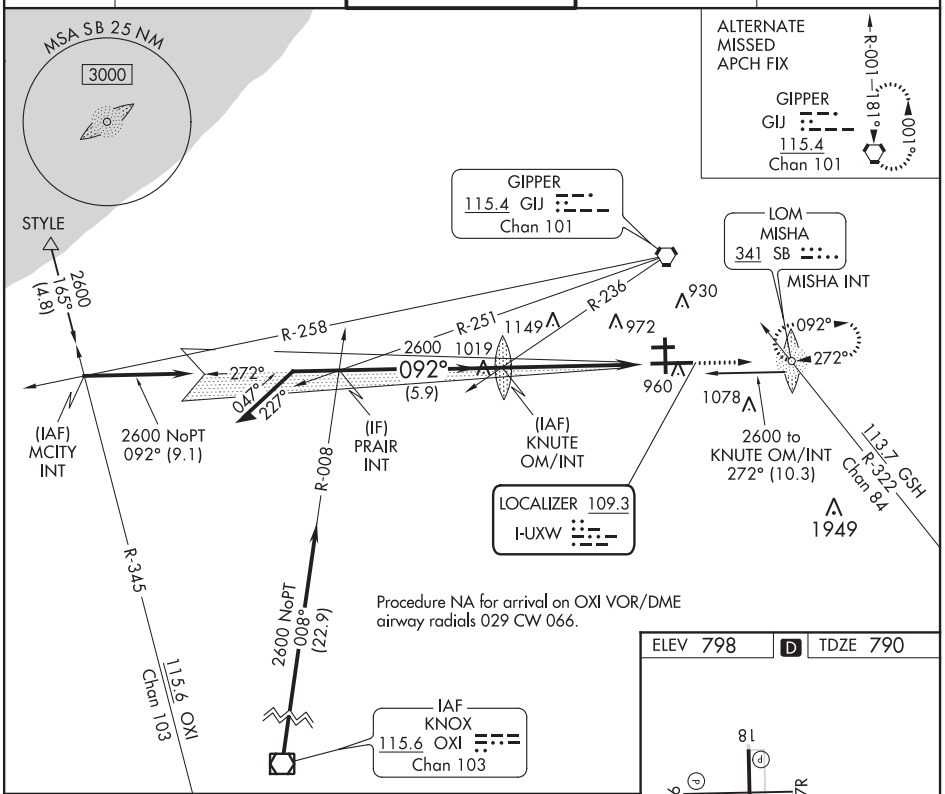
ADF required.

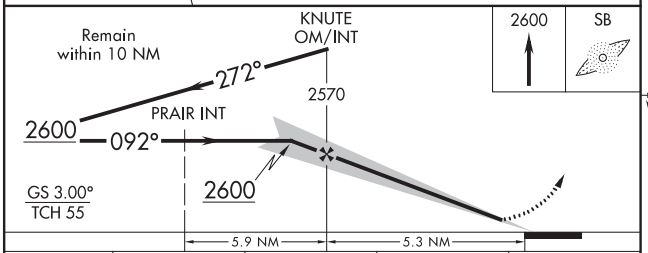
Rwy 9R helicopter visibility reduction below ¾ SM NA. Inop table does not apply to S-ILS 9R all Cats. For inop ALS, increase S-LOC 9R Cats C/D visibility to RVR 6000.

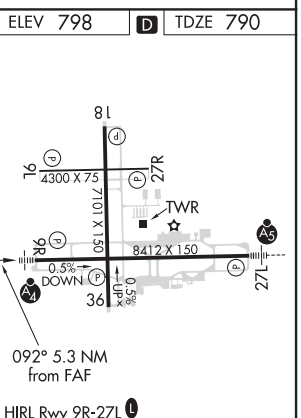
MALSF

MISSED APPROACH: Climb to 2600 direct MISHA LOM/INT and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9







HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

CATEGORY	A	B	C	D
S-ILS 9R	990/40 200 (200-¾)			
S-LOC 9R	1200/40 410 (500-¾)		1200/50 410 (500-1)	
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

SOUTH BEND, INDIANA — AL-399 (FAA) — 20086

ILS or LOC RWY 27L
SOUTH BEND INTL (SBN)

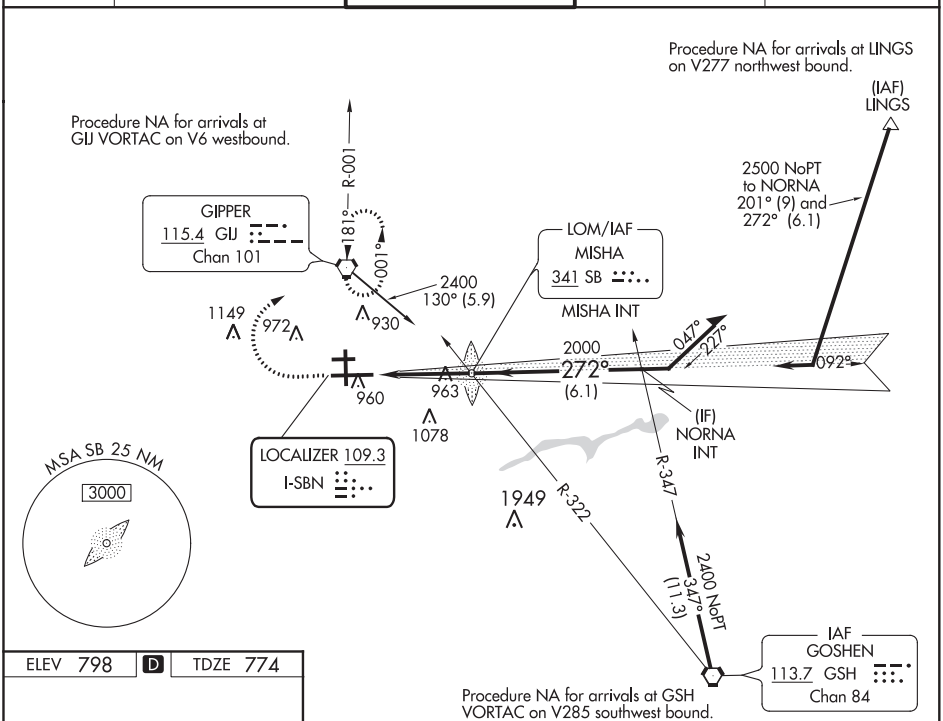
LOC I-SBN	APP CRS	Rwy ldg	8412
109.3	272°	TDZE	774
		Apt Elev	798

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

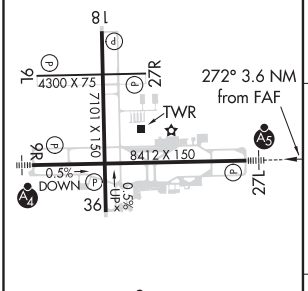
MALSR

MISSED APPROACH: Climb to 1200 then climbing right turn to 2400 direct GIJ VORTAC and hold.

ATIS	SOUTH BEND APP CON*	SOUTH BEND TOWER*	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9

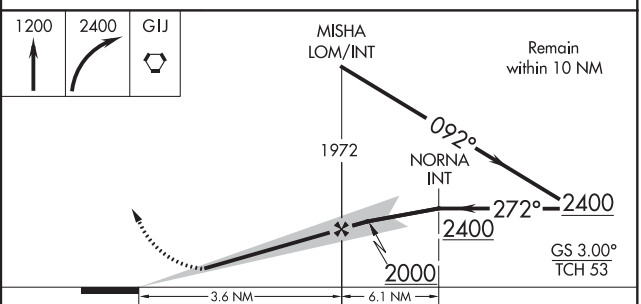


ELEV 798 D TDZE 774



HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12



CATEGORY	A	B	C	D
S-ILS 27L *	974/24 200 (200-½)			
S-LOC 27L	1220/24 446 (500-½)		1220/45 446 (500-⅞)	
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-SBN	APP CRS	Rwy ldg	8412
109.3	272°	TDZE	774
		Apt Elev	798

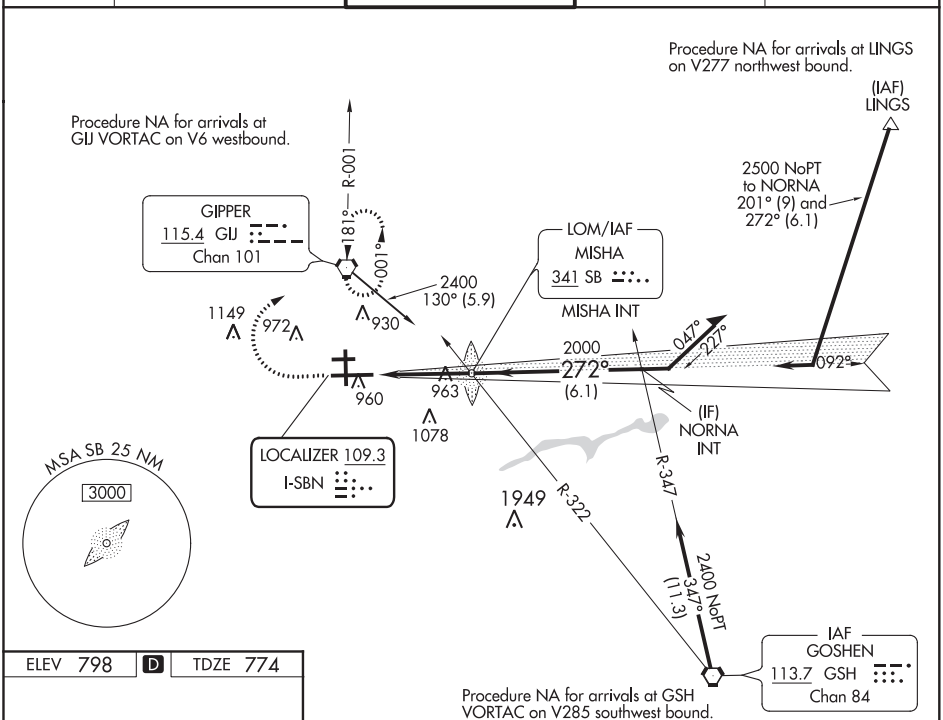
ILS RWY 27L (SA CAT I & II)
SOUTH BEND INTL (SBN)

SA Cat I: Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. SA Cat II: Reduced lighting: Requires specific OPSPEC, MSPEC, or LOA approval and use of Autoland or HUD to touchdown.

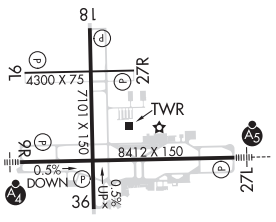
MALSR

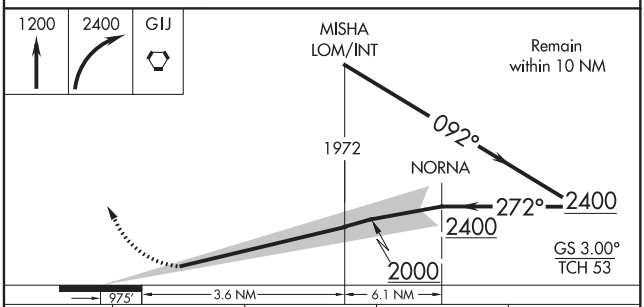
MISSED APPROACH: Climb to 1200 then climbing right turn to 2400 direct GIJ VORTAC and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



ELEV 798 D TDZE 774





CATEGORY	A	B	C	D
S-ILS 27L	SA CAT I	RA 179/14	150 DA 924	
S-ILS 27L	SA CAT II	RA 114/12	100 DA 874	

SA CATEGORY I & II ILS SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

SOUTH BEND, INDIANA — AL-399 (FAA) — 20366

RNAV (GPS) RWY 9L
SOUTH BEND INTL (SBN)

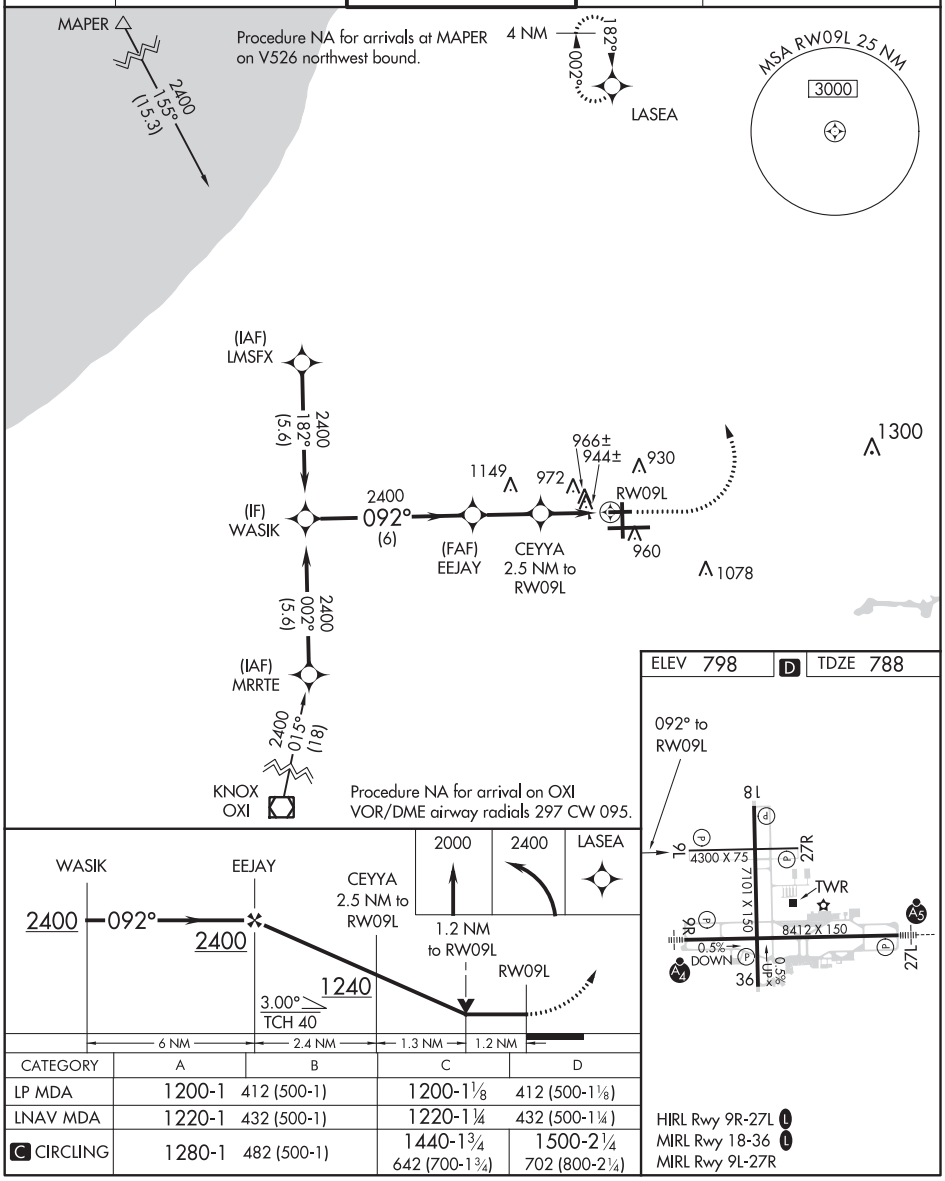
WAAS CH 70542 W09A	APP CRS 092°	Rwy ldg 4300 TDZE 788 Apt Elev 798

RNP APCH.

Rwy 9L helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 then climbing left turn to 2400 direct LASEA and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



CATEGORY	A	B	C	D
LP MDA	1200-1 412 (500-1)		1200-1⅛	412 (500-1⅛)
LNAV MDA	1220-1 432 (500-1)		1220-1¼	432 (500-1¼)
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

SOUTH BEND, INDIANA
Amdt 1 13SEP18

41°42′N-86°19′W

SOUTH BEND INTL (SBN)
RNAV (GPS) RWY 9L

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 60908 W09B	APP CRS 092°	Rwy ldg 8412 TDZE 790 Apt Elev 798

RNAV (GPS) RWY 9R
SOUTH BEND INTL (SBN)

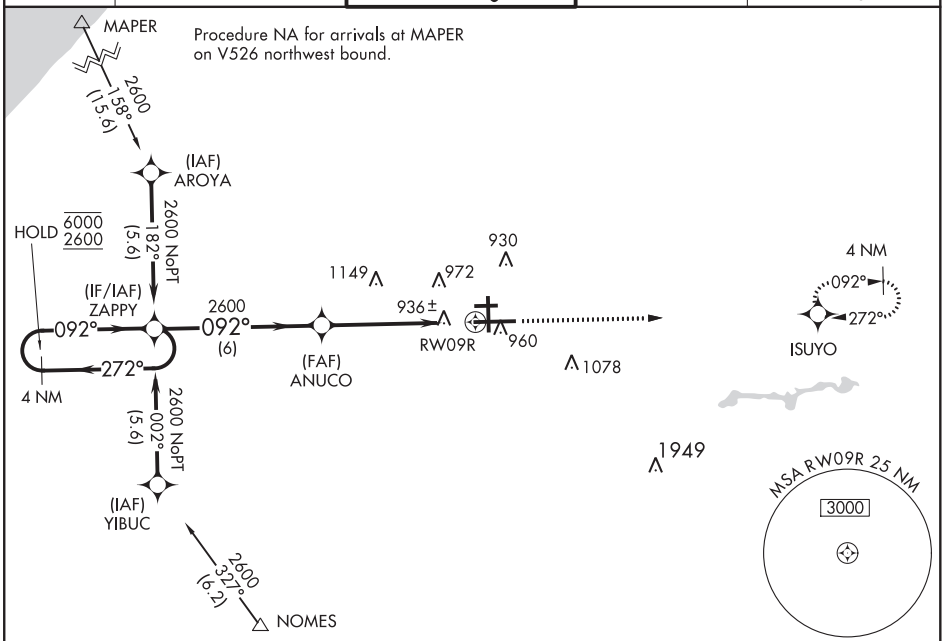
RNP APCH.

Rwy 9R helicopter visibility reduction below ¾ SM NA. Inop table does not apply to LPV all Cats. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. For inop ALS, increase LNAV Cat A/B visibility to RVR 5500 and Cat C/D to RVR 6000.

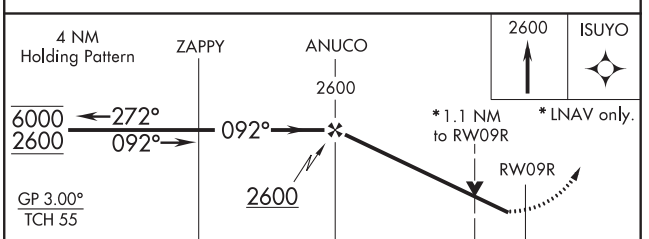
MALSF

MISSED APPROACH: Climb to 2600 direct ISUYO and hold.

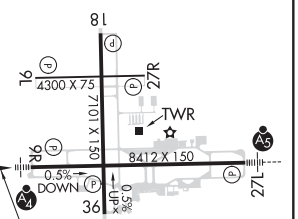
ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



ELEV 798 D TDZE 790



CATEGORY	A	B	C	D
LPV DA	990/40	200 (200-¾)		
LNAV/VNAV DA	1222/40	432 (500-¾)		
LNAV MDA	1200/40	410 (500-¾)		
C CIRCLING	1280-1 482 (500-1)	1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)	



HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

SOUTH BEND, INDIANA — AL-399 (FAA) — 19339

RNAV (GPS) RWY 18
SOUTH BEND INTL (SBN)

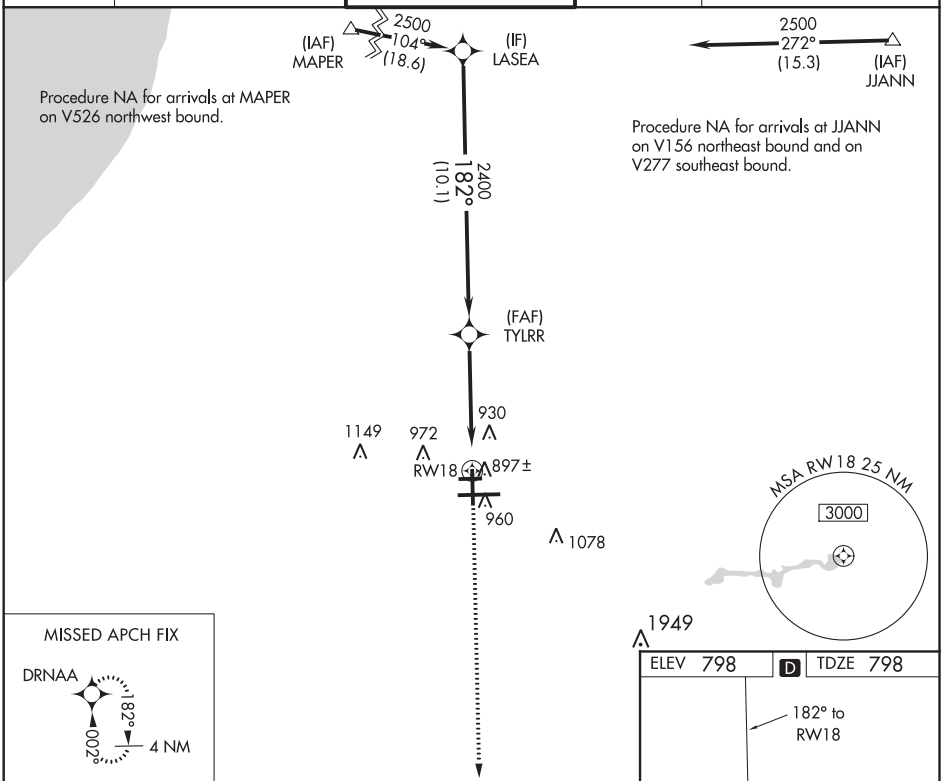
WAAS CH 73021 W18A	APP CRS 182°	Rwy ldg 7101 TDZE 798 Apt Elev 798

RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C.

MISSED APPROACH: Climb to 2400 direct DRNAA and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



CATEGORY	A	B	C	D
LPV DA	1048-1 250 (300-1)			
LNAV/VNAV DA	1057-1 259 (300-1)			
LNAV MDA	1160-1 362 (400-1)			
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 50108 W27A	APP CRS 272°	Rwy ldg 8412 TDZE 774 Apt Elev 798

RNAV (GPS) RWY 27L
SOUTH BEND INTL (SBN)

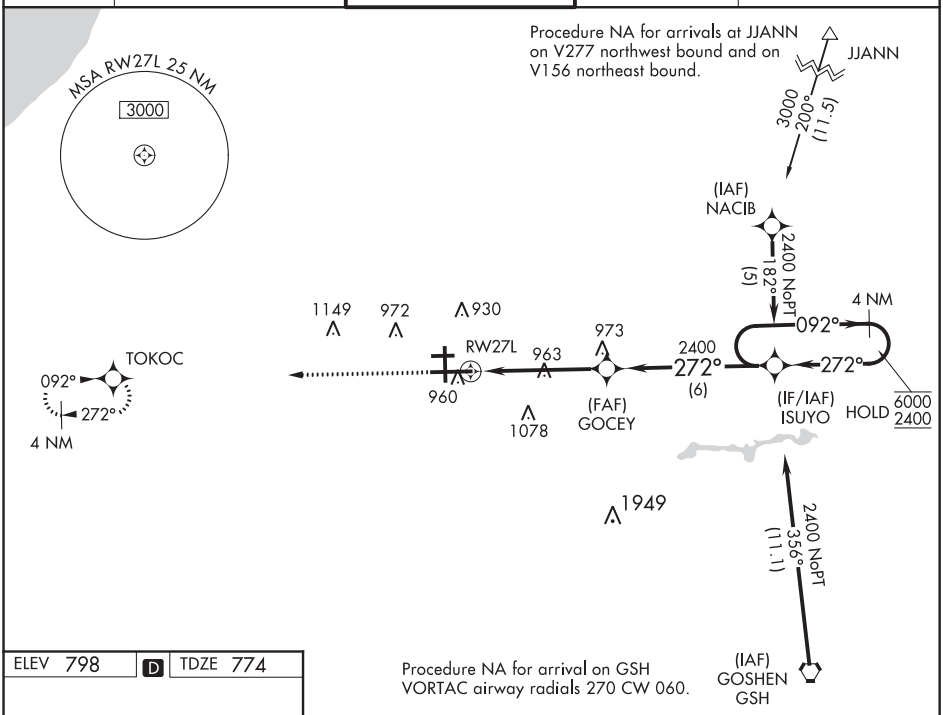
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C or above 54°C. For inop ALS, increase LNAV Cat C/D visibility to 1⅜ SM.

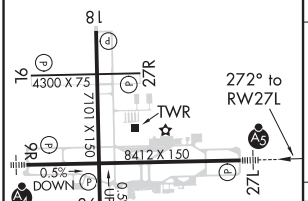
MALSR

MISSED APPROACH: Climb to 2600 direct TOKOC and hold.

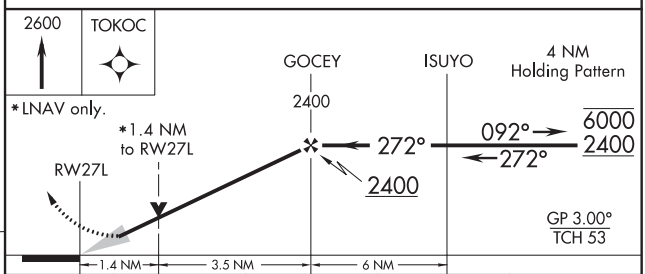
ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



ELEV 798 D TDZE 774



HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R



CATEGORY	A	B	C	D
LPV DA	1030/24 256 (300-½)			
LNAV/VNAV DA	1160/40 386 (400-¾)			
LNAV MDA	1260/24 486 (500-½)		1260/50 486 (500-1)	
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

EC-2, 25 FEB 2021 to 22 APR 2021
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SOUTH BEND, INDIANA — AL-399 (FAA) — 19339

RNAV (GPS) RWY 27R
SOUTH BEND INTL (SBN)

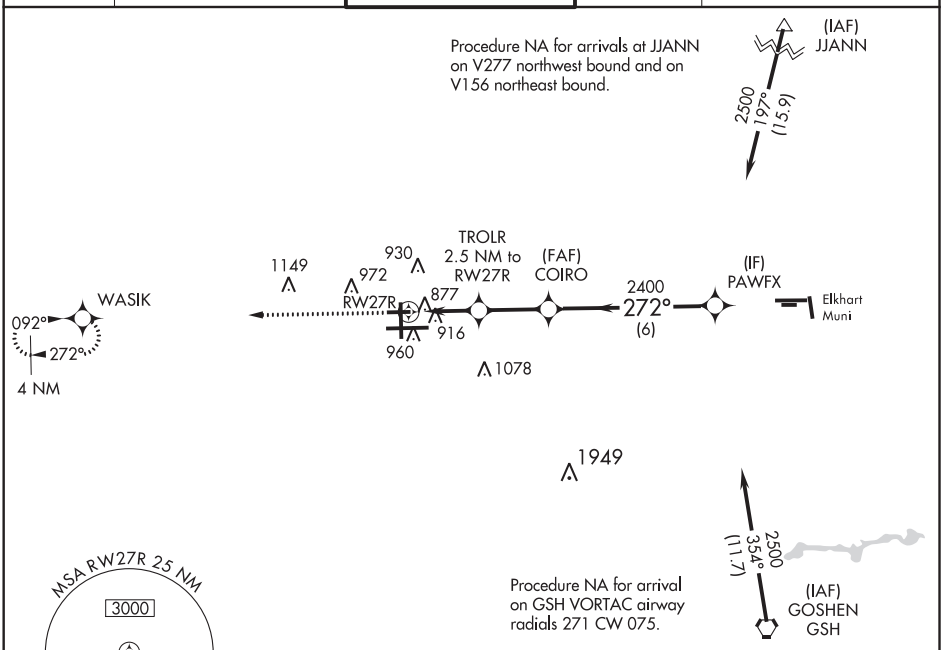
WAAS CH 86542 W27B	APP CRS 272°	Rwy ldg 4300 TDZE 788 Apt Elev 798

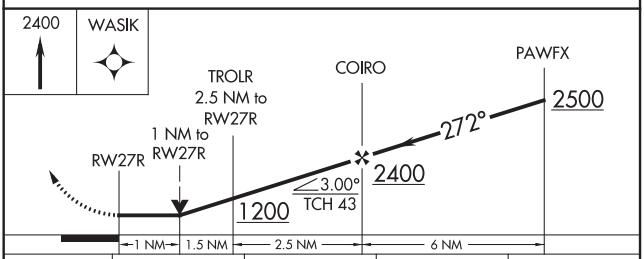
RNP APCH.

Rwy 27R helicopter visibility reduction below ¾ SM NA.

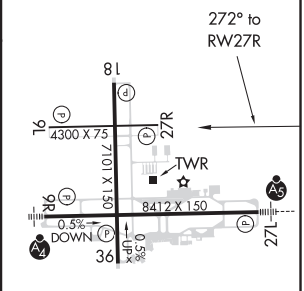
MISSED APPROACH: Climb to 2400 direct WASIK and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9





ELEV 798 | D | TDZE 788



CATEGORY	A	B	C	D
LP MDA	1140-1 352 (400-1)			
LNAV MDA	1180-1 392 (400-1)		1180-1⅛ 392 (400-1⅛)	
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

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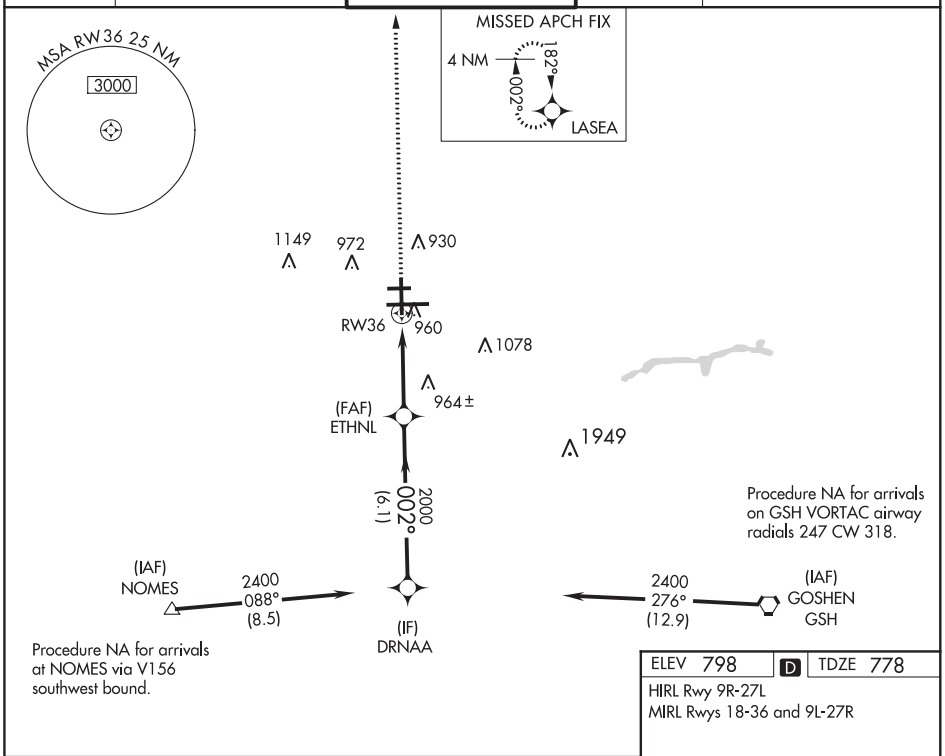
WAAS CH 69514 W36A	APP CRS 002°	Rwy ldg 7101 TDZE 778 Apt Elev 798

RNAV (GPS) RWY 36
SOUTH BEND INTL (SBN)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

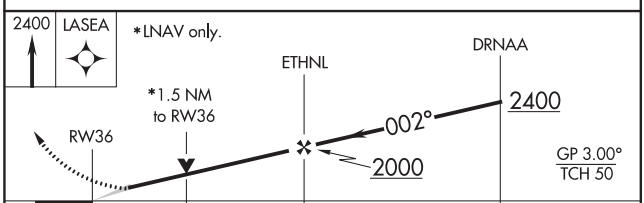
MISSED APPROACH: Climb to 2400 direct LASEA and hold.

ATIS	SOUTH BEND APP CON★	SOUTH BEND TOWER★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) 257.8	121.7	121.9

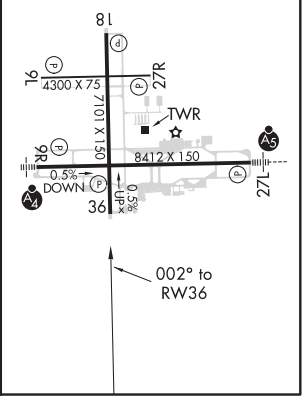


ELEV 798 D TDZE 778

HIRL Rwy 9R-27L
MIRL Rwys 18-36 and 9L-27R



CATEGORY	A	B	C	D
LPV DA	1028-1 250 (300-1)			
LNAV/VNAV DA	1230-1¾ 452 (500-1¾)			
LNAV MDA	1280-1 502 (500-1)		1280-1½ 502 (500-1½)	
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)



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SOUTH BEND, INDIANA

AL-399 (FAA)

19339

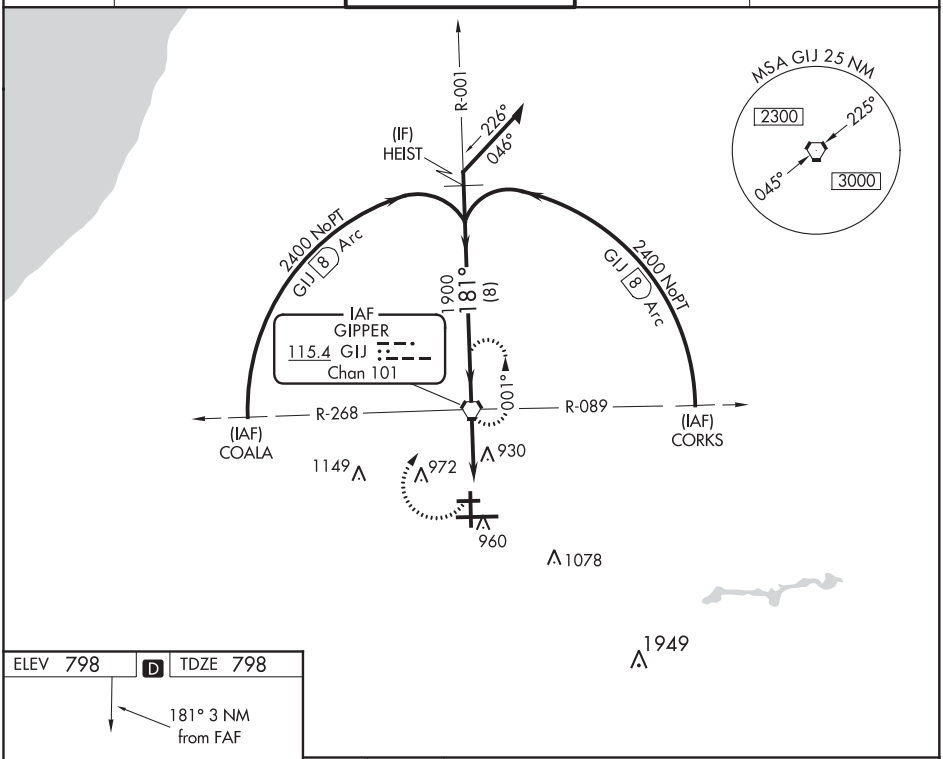
VOR RWY 18
SOUTH BEND INTL (SBN)

VORTAC GIJ	APP CRS	Rwy ldg	7101
115.4	181°	TDZE	798
Chan 101		Apt Elev	798

Rwy 18 helicopter visibility reduction below ¾ SM NA.

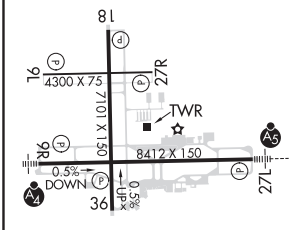
MISSED APPROACH: Climbing right turn to 2400 direct GIJ VORTAC and hold.

ATIS	SOUTH BEND APP CON ★	SOUTH BEND TOWER ★	GND CON	CLNC DEL
120.675	118.55 257.8	135.675 (CTAF) L 257.8	121.7	121.9



ELEV 798 D TDZE 798

181° 3 NM from FAF

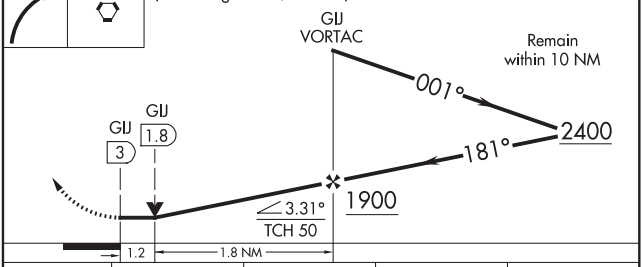


HIRL Rwy 9R-27L L
MIRL Rwy 18-36 L
MIRL Rwy 9L-27R

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

2400 GIJ

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 49).



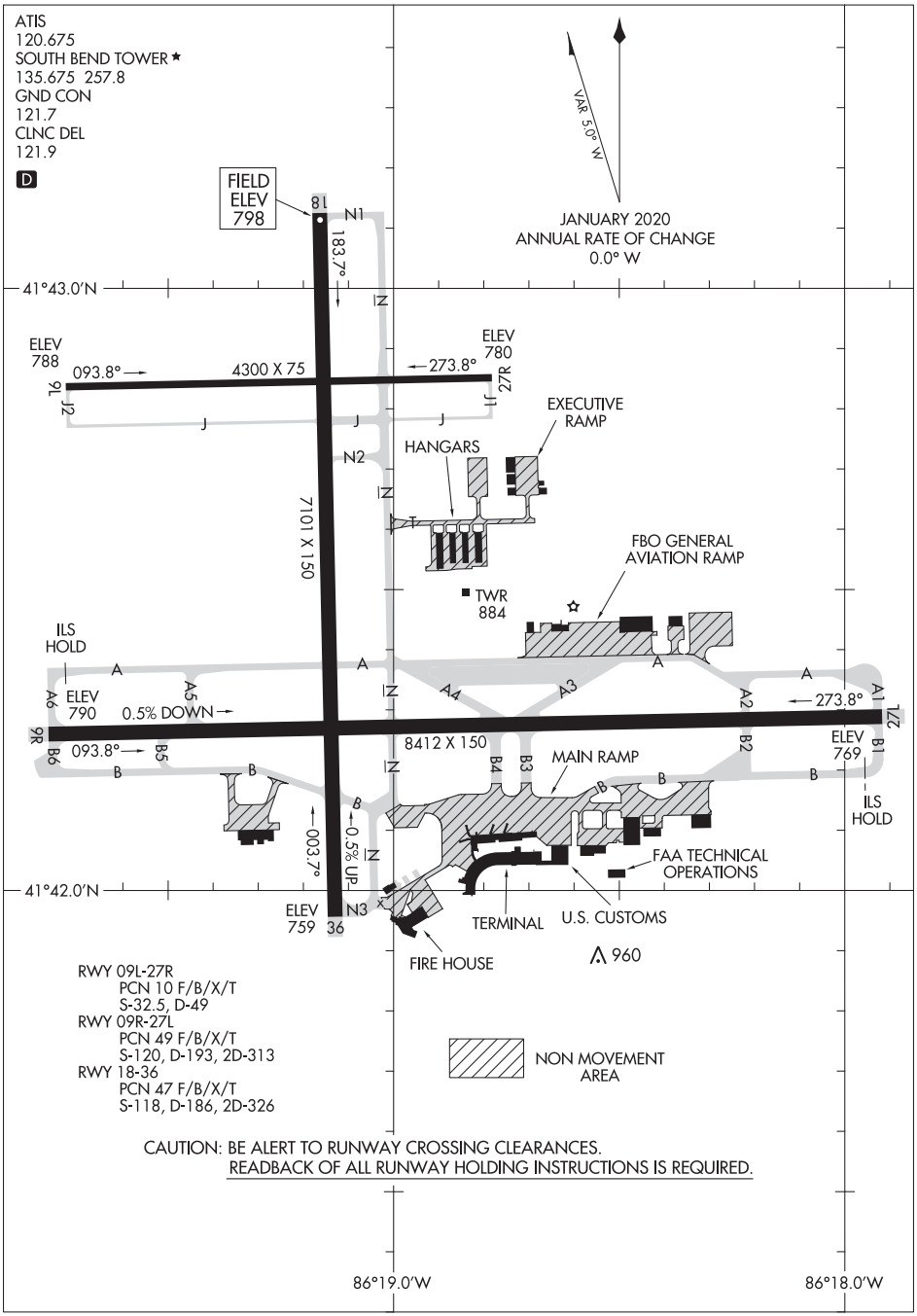
CATEGORY	A	B	C	D
S-18	1260-1 462 (500-1)		1260-1⅜ 462 (500-1⅜)	1260-1½ 462 (500-1½)
C CIRCLING	1280-1 482 (500-1)		1440-1¾ 642 (700-1¾)	1500-2¼ 702 (800-2¼)

SOUTH BEND, INDIANA
Amdt 7E 13SEP18

41°42′N-86°19′W

SOUTH BEND INTL (SBN)
VOR RWY 18

EC-2, 25 FEB 2021 to 22 APR 2021



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SPRINGFIELD, OHIO | AL-958 (FAA) | 20310

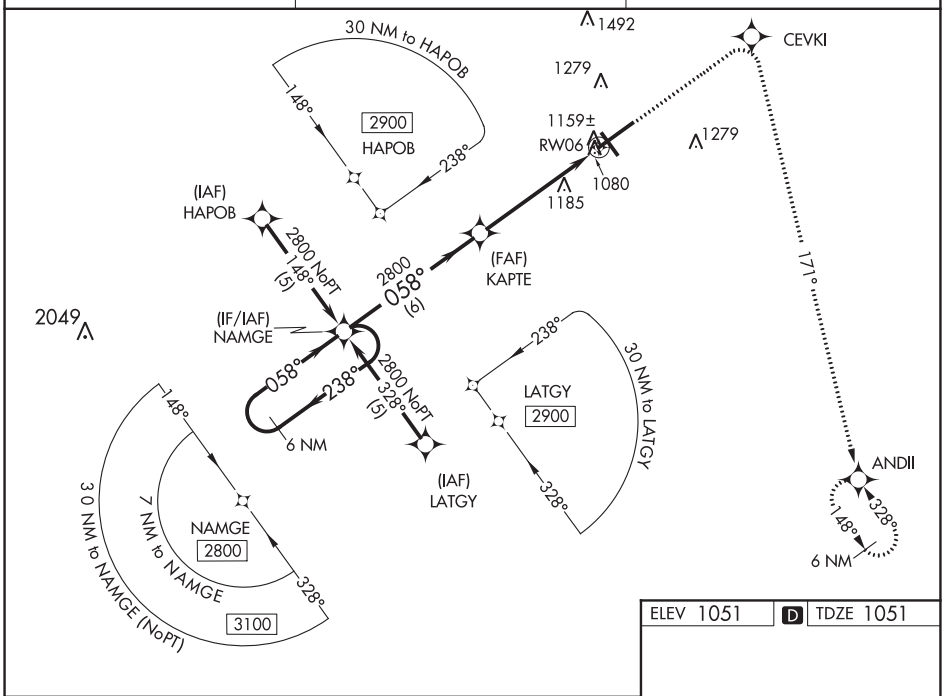
WAAS CH 58115 W06A	APP CRS 058°	Rwy ldg 9009 TDZE 1051 Apt Elev 1051

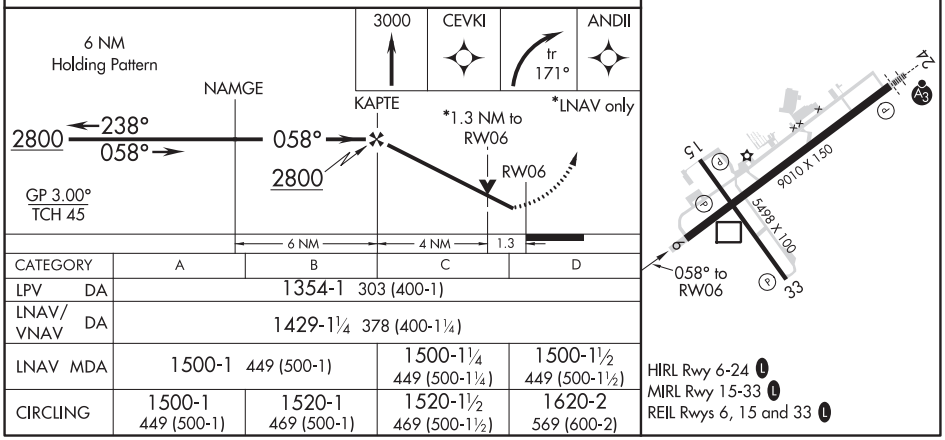
RNAV (GPS) RWY 6
SPRINGFIELD-BECKLEY MUNI (SGH)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wright-Patterson AFB altimeter setting and increase all DA 55 feet and all MDA 60 feet, and increase LPV all Cats, LNAV/VNAV all Cats, and LNAV Cat C visibilities ¼ mile. VDP and Baro-VNAV NA when using Wright-Patterson AFB altimeter setting.

MISSED APPROACH: Climb to 3000 direct CEVKI and right turn via track 171° to ANDII and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
134.975	118.85 269.275	122.95 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1354-1 303 (400-1)			
LNAV/VNAV DA	1429-1¼ 378 (400-1¼)			
LNAV MDA	1500-1 449 (500-1)		1500-1¼ 449 (500-1¼)	1500-1½ 449 (500-1½)
CIRCLING	1500-1 449 (500-1)	1520-1 469 (500-1)	1520-1½ 469 (500-1½)	1620-2 569 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH **97615** **W24A**	APP CRS **238°**	Rwy ldg **9009** TDZE **1048** Apt Elev **1051**

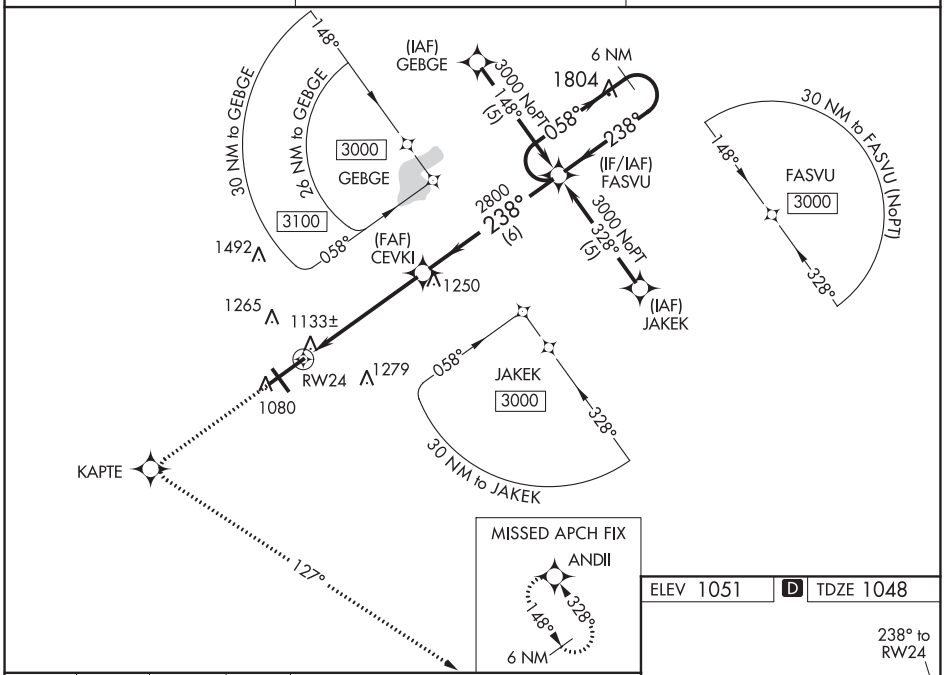
RNAV (GPS) RWY 24
SPRINGFIELD-BECKLEY MUNI (SGH)

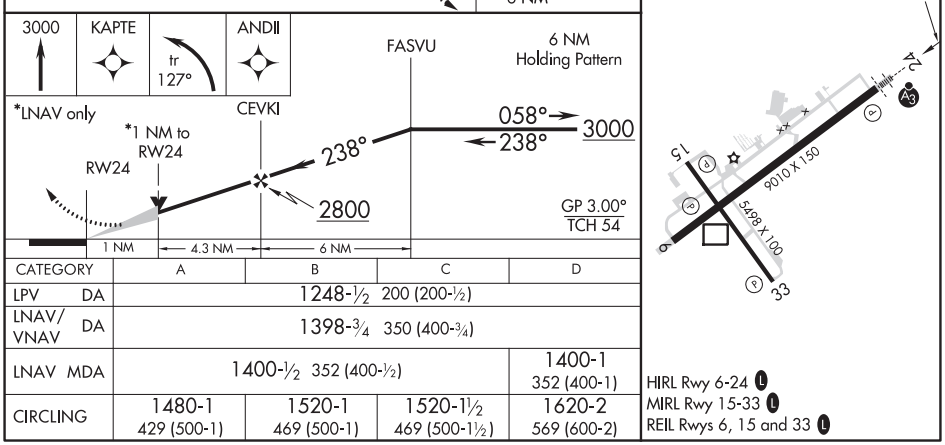
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Wright-Patterson AFB altimeter setting and increase all DA 55 feet and all MDA 60 feet, LNAV/VNAV all Cats and LNAV Cat C visibilities ¼ mile. For inoperative ALSF-2/SSALR, increase LNAV Cat D visibility to 1¼ mile. For inoperative ALSF-2/SSALR, when using Wright-Patterson AFB altimeter setting, increase LPV all Cats visibility to 1 mile and LNAV Cat D visibility to 1¼ mile. ALSF-2 reverts to SSALR when tower is closed. VDP and Baro-VNAV NA when using Wright-Patterson AFB altimeter setting.

SSALR

MISSED APPROACH: Climb to 3000 direct KAPTE and left turn via track 127° to ANDII and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
134.975	**118.85 269.275**	**122.95** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1248-½ 200 (200-½)			
LNAV/VNAV DA	1398-¾ 350 (400-¾)			
LNAV MDA	1400-½ 352 (400-½)			1400-1 352 (400-1)
CIRCLING	1480-1 429 (500-1)	1520-1 469 (500-1)	1520-1½ 469 (500-1½)	1620-2 569 (600-2)

HIRL Rwy 6-24 L
MIRL Rwy 15-33 L
REIL Rwys 6, 15 and 33 L

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EC-2, 25 FEB 2021 to 22 APR 2021

NDB CCJ	APP CRS	Rwy ldg	9009
341	240°	TDZE	1048
		Apt Elev	1051

NDB RWY 24

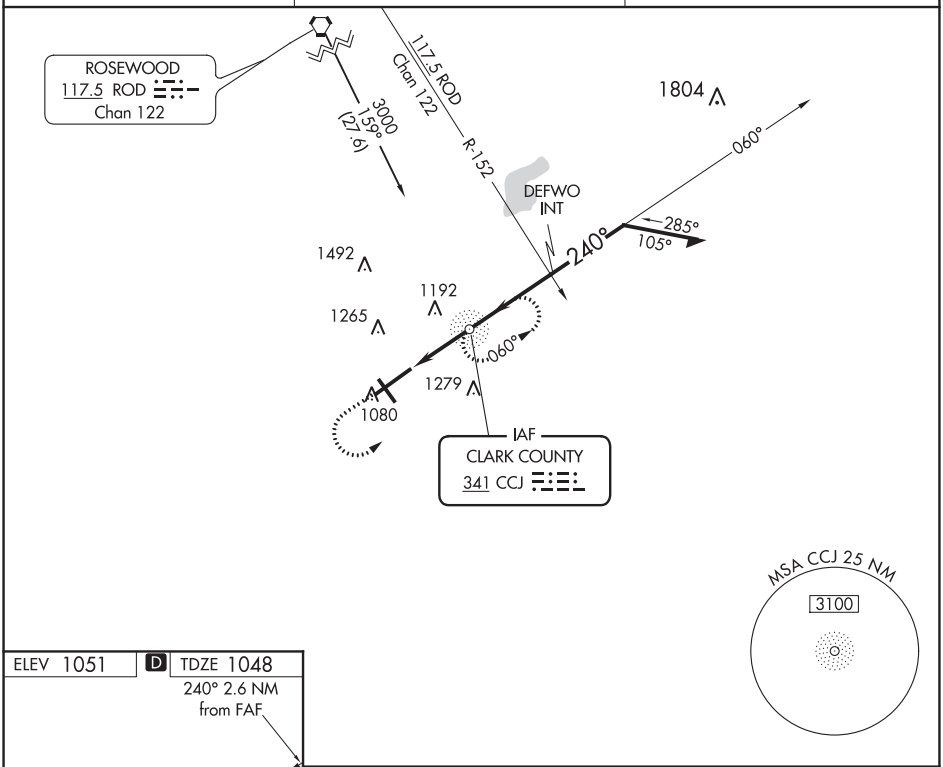
SPRINGFIELD-BECKLEY MUNI (SGH)

T A NA When local altimeter setting not received, use Wright-Patterson AFB altimeter setting and increase all MDA 60 feet and S-24 Cats C and D visibility ¼ mile.

SSALR A3

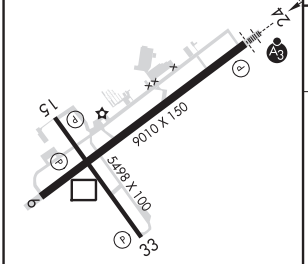
MISSED APPROACH: Climb to 2900 then left turn direct CCJ NDB and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
134.975	118.85 269.275	122.95 (CTAF) L



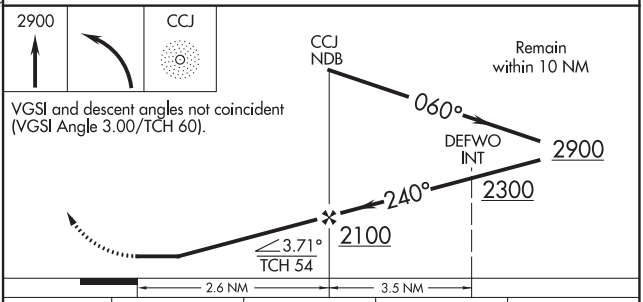
ELEV 1051 D TDZE 1048

240° 2.6 NM from FAF



HIRL Rwy 6-24 L
MIRL Rwy 15-33 L
REIL Rwys 6, 15 and 33 L

FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52



CATEGORY	A	B	C	D
S-24	1500-¾ 452 (500-¾)			1500-1¼ 452 (500-1¼)
CIRCLING	1500-1 449 (500-1)	1520-1 469 (500-1)	1520-1½ 469 (500-1½)	1620-2 569 (600-2)

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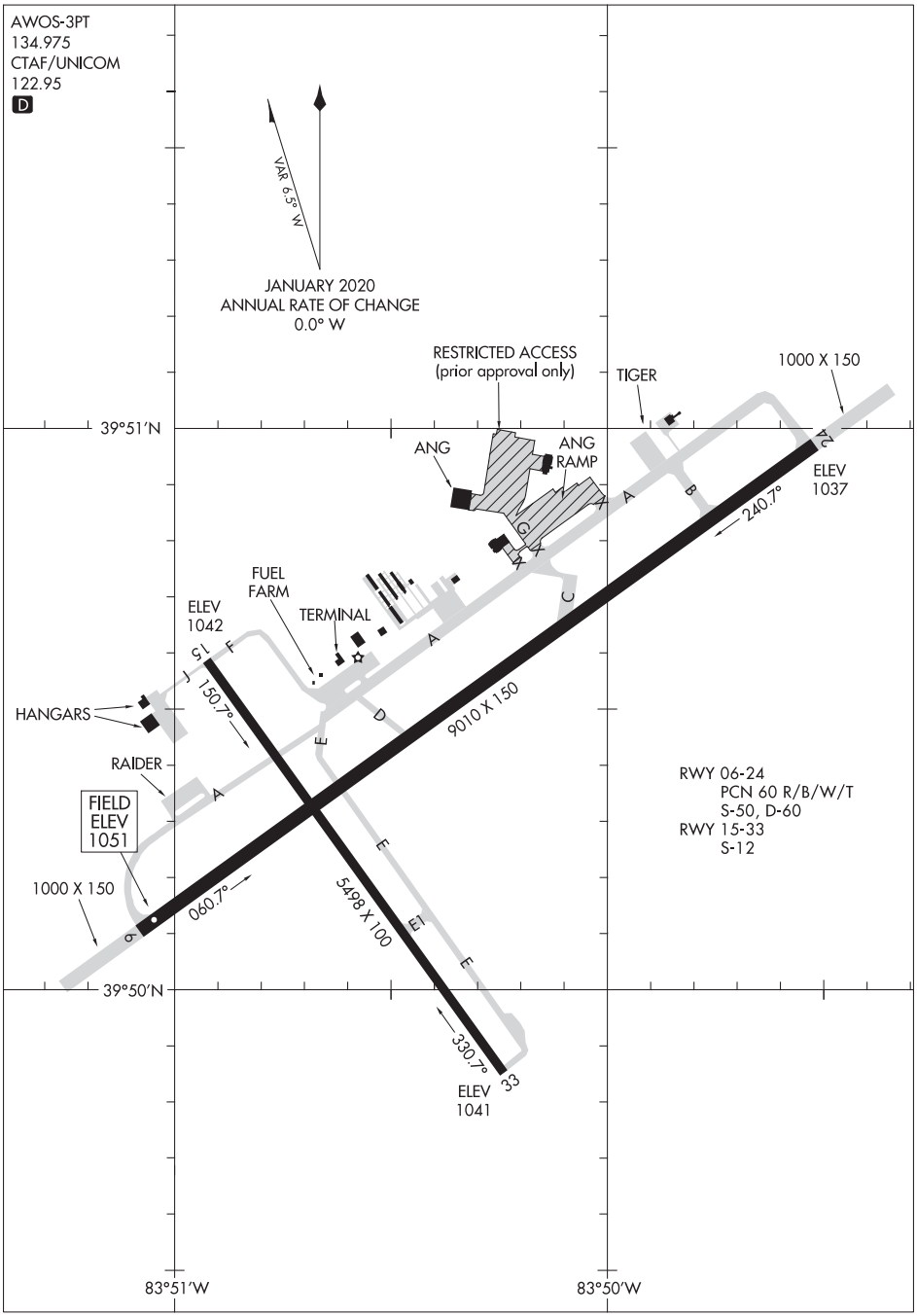

AWOS-3PT
134.975
CTAF/UNICOM
122.95
D
VAR 6.5° W
JANUARY 2020
ANNUAL RATE OF CHANGE
0.0° W
RESTRICTED ACCESS
(prior approval only)
TIGER
1000 X 150
39°51′N
ANG
ANG RAMP
24
ELEV
1037
240.7°
FUEL FARM
ELEV
1042
TERMINAL
15
150.7°
HANGARS
RAIDER
FIELD
ELEV
1051
9010 X 150
RWY 06-24
PCN 60 R/B/W/T
S-50, D-60
RWY 15-33
S-12
1000 X 150
060.7°
5498 X 100
39°50′N
330.7°
33
ELEV
1041
83°51′W
83°50′W

STEUBENVILLE, OHIO | AL-9331 (FAA) | 19339

RNAV (GPS) RWY 14
JEFFERSON COUNTY AIRPARK (2G2)

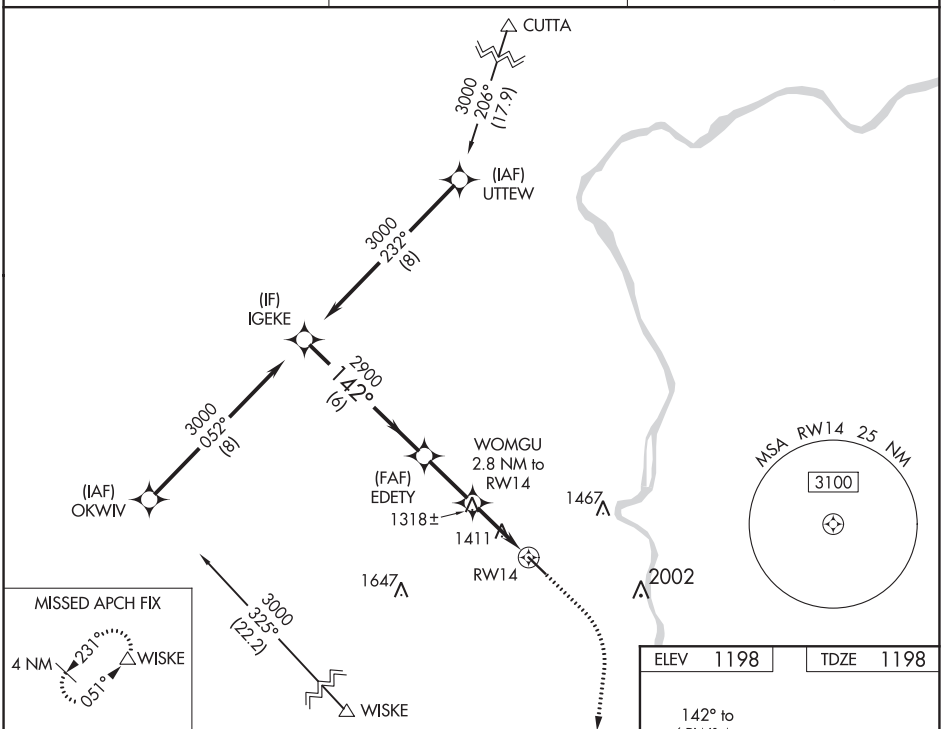
WAAS CH 66039 W14A	APP CRS 142°	Rwy ldg 5001 TDZE 1198 Apt Elev 1198

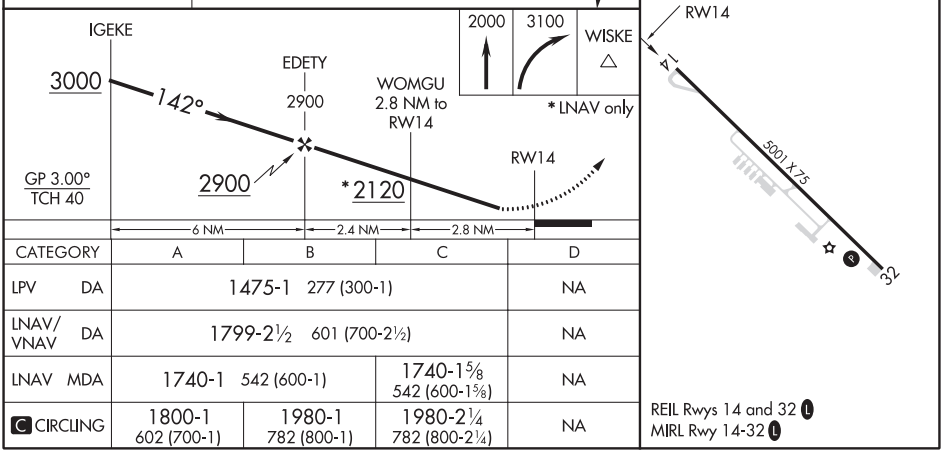
RNP APCH.

Rwy 14 helicopter visibility reduction below ¾ SM NA.
Baro-VNAV NA. Use Wheeling altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing right turn to 3100 direct WISKE and hold.

HLG ASOS	PITTSBURGH APP CON	UNICOM
127.375	124.75 338.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1475-1 277 (300-1)			NA
LNAV/VNAV DA	1799-2½ 601 (700-2½)			NA
LNAV MDA	1740-1 542 (600-1)		1740-1⅝ 542 (600-1⅝)	NA
C CIRCLING	1800-1 602 (700-1)	1980-1 782 (800-1)	1980-2¼ 782 (800-2¼)	NA

STEUBENVILLE, OHIO
Amdt 1A 05DEC19

40°22′N-80°42′W

JEFFERSON COUNTY AIRPARK (2G2)
RNAV (GPS) RWY 14

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WAAS	APP CRS	Rwy ldg	5001
CH 58339	322°	TDZE	1192
W32A		Apt Elev	1198

RNAV (GPS) RWY 32
JEFFERSON COUNTY AIRPARK (2G2)

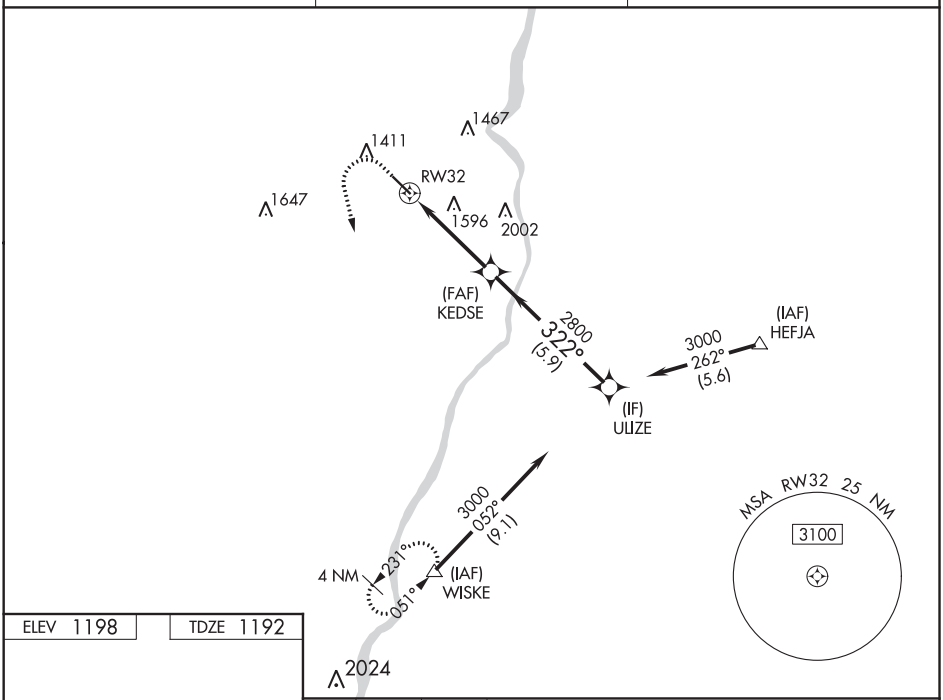
RNP APCH.

T
A NA

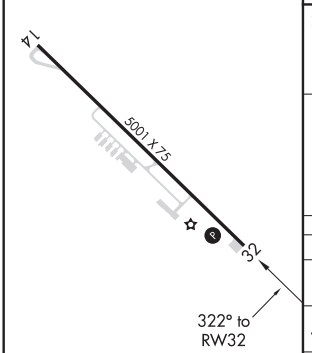
Rwy 32 helicopter visibility reduction below ¾ SM NA.
Baro-VNAV NA. Use Wheeling altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing left turn to 3100 direct WISKE and hold.

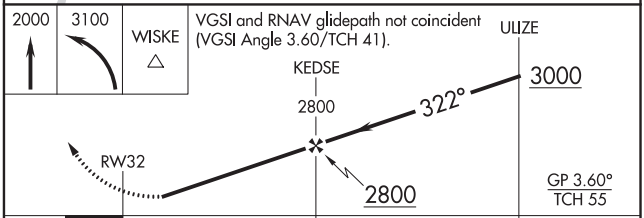
HLG ASOS	PITTSBURGH APP CON	UNICOM
127.375	124.75 338.2	122.8 (CTAF) L



ELEV 1198 | TDZE 1192



REIL Rwys 14 and 32 L
MIRL Rwy 14-32 L



CATEGORY		A	B	C	D
LPV	DA	1519-1 327 (400-1)			NA
LNAV/VNAV	DA	1972-2½ 780 (800-2½)			NA
LNAV	MDA	1880-1 688 (700-1)		1880-2 688 (700-2)	NA
C CIRCLING		1880-1 682 (700-1)	1980-1 782 (800-1)	1980-2¼ 782 (800-2¼)	NA

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EC-2, 25 FEB 2021 to 22 APR 2021

SULLIVAN, INDIANA — AL-5590 (FAA) — 19283

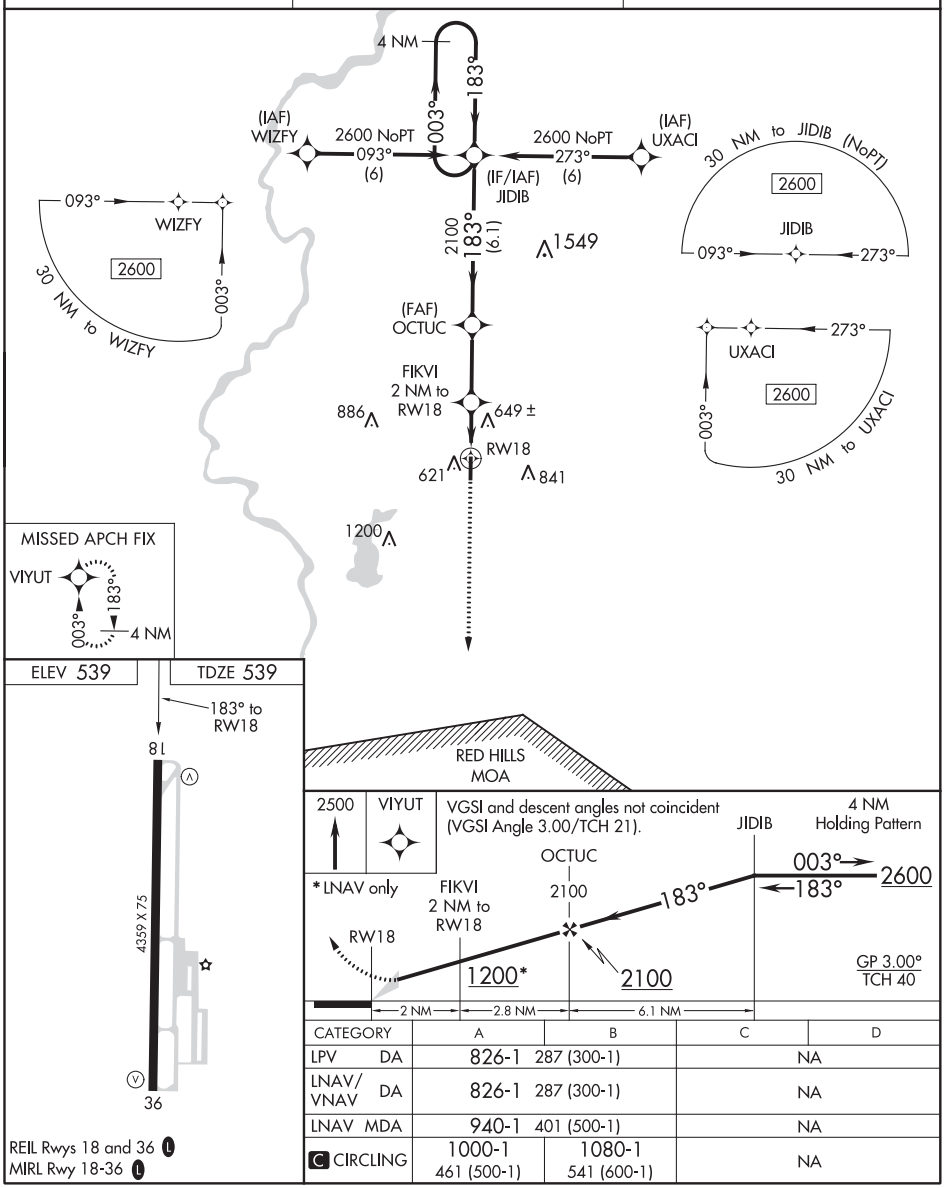
RNAV (GPS) RWY 18
SULLIVAN COUNTY (SIV)

WAAS CH 65936 W18A	APP CRS 183°	Rwy ldg 4359 TDZE 539 Apt Elev 539

T A NA — Baro-VNAV NA. DME/DME RNP-0.3 NA. When Robinson altimeter setting is not received, use Terre Haute Intl-Hulman Field altimeter setting and increase all DA/MDA 20 feet.

MISSED APPROACH: Climb to 2500 direct VIYUT and hold.

RSV AWOS-3	HULMAN APP CON	UNICOM
120.5	119.25 339.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	826-1 287 (300-1)		NA	
LNAV/VNAV DA	826-1 287 (300-1)		NA	
LNAV MDA	940-1 401 (500-1)		NA	
C CIRCLING	1000-1 461 (500-1)	1080-1 541 (600-1)	NA	

REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 82136 W36A	APP CRS 003°	Rwy ldg 4359 TDZE 539 Apt Elev 539

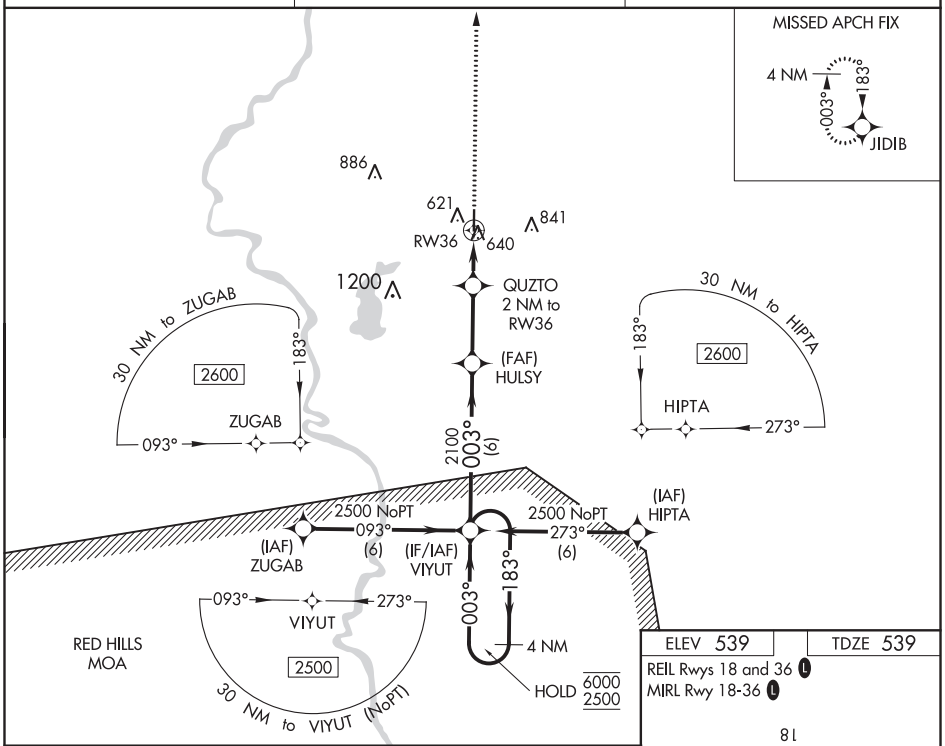
RNAV (GPS) RWY 36
SULLIVAN COUNTY (SIV)

RNP APCH.

NA — Baro-VNAV NA. Use Robinson altimeter setting; when not received, use Terre Haute altimeter setting and increase LPV DA to 876, increase LNAV/VNAV DA to 889, and increase all MDA 20 feet.

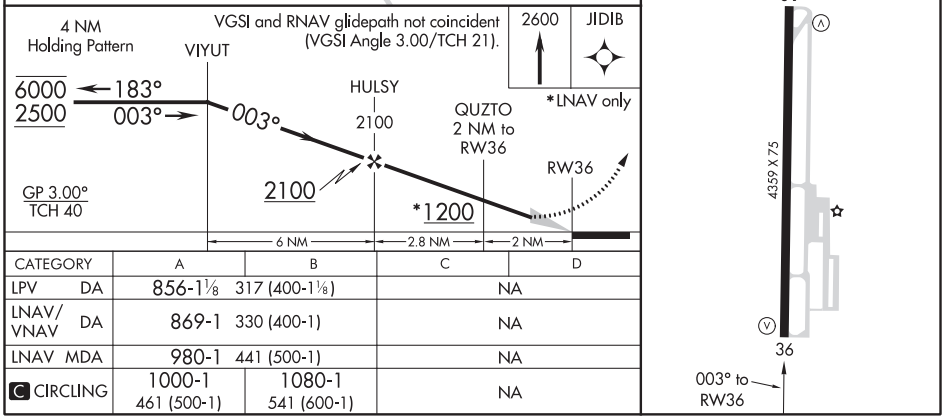
MISSED APPROACH: Climb to 2600 direct JIDIB and hold.

RSV AWOS-3	HULMAN APP CON	UNICOM
120.5	119.25 339.8	122.8 (CTAF) L



ELEV 539	TDZE 539

REIL Rwys 18 and 36 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	856-1⅛ 317 (400-1⅛)		NA	
LNAV/VNAV DA	869-1 330 (400-1)		NA	
LNAV MDA	980-1 441 (500-1)		NA	
C CIRCLING	1000-1 461 (500-1)	1080-1 541 (600-1)	NA	

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TELL CITY, INDIANA | AL-5928 (FAA) | 19171

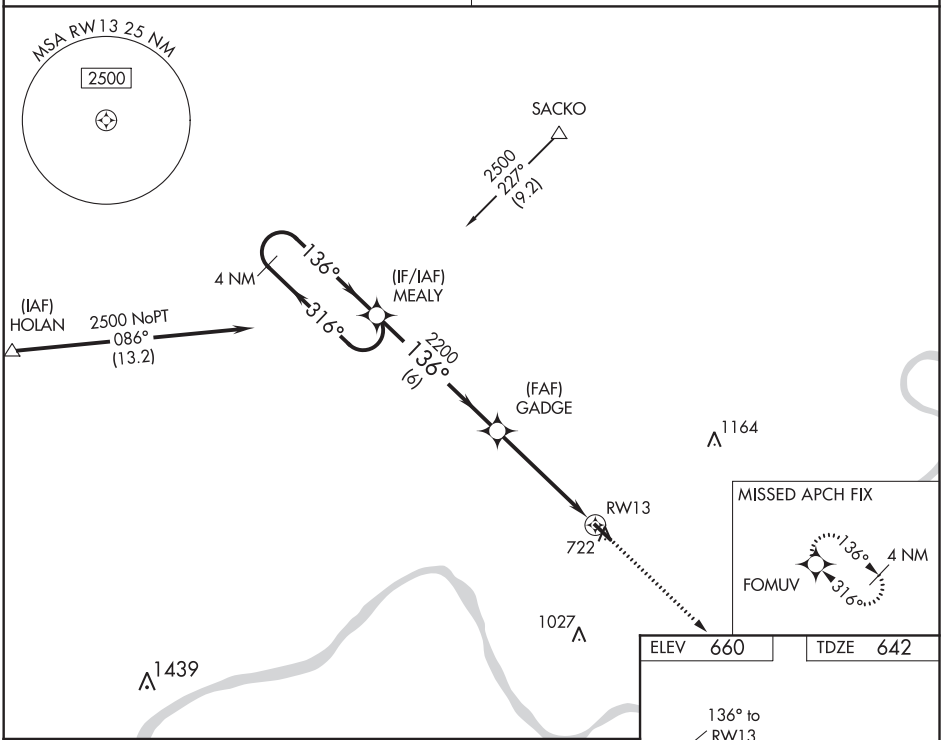
RNAV (GPS) RWY 13
PERRY COUNTY MUNI (TEL)

WAAS CH 86622 W13A	APP CRS 136°	Rwy ldg 4400 TDZE 642 Apt Elev 660

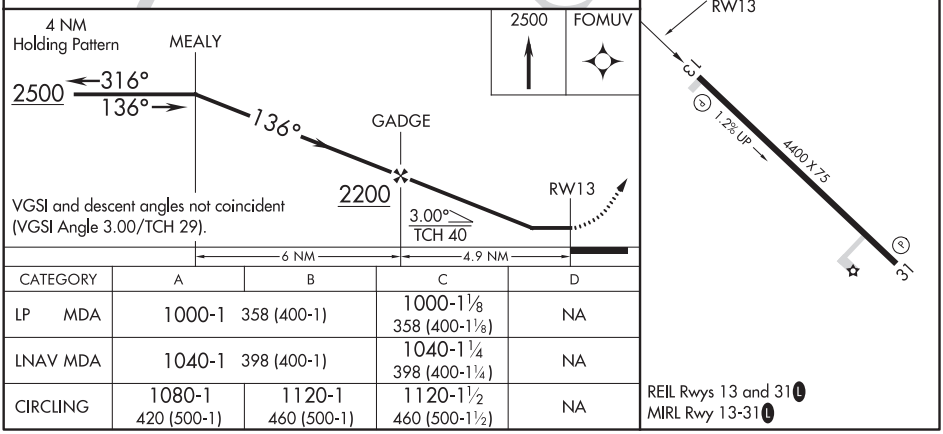
When VGSI inop, Circling Rwy 31 NA at night. When VGSI inop, Straight-in/Circling Rwy 13 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received, use Huntingburg altimeter setting and increase all MDA 80 feet and increase LP Cat C visibility ¼ mile and LNAV Cat C visibility ⅛ mile.

MISSED APPROACH: Climb to 2500 direct FOMUV and hold.

EVANSVILLE APP CON ★	UNICOM
124.025 290.9	122.7 (CTAF) L



ELEV 660	TDZE 642



CATEGORY	A	B	C	D
LP MDA	1000-1 358 (400-1)		1000-1⅛ 358 (400-1⅛)	NA
LNAV MDA	1040-1 398 (400-1)		1040-1¼ 398 (400-1¼)	NA
CIRCLING	1080-1 420 (500-1)	1120-1 460 (500-1)	1120-1½ 460 (500-1½)	NA

REIL Rwys 13 and 31 L
MIRL Rwy 13-31 L

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WAAS CH 93623 W31A	APP CRS 316°	Rwy ldg 4400 TDZE 660 Apt Elev 660

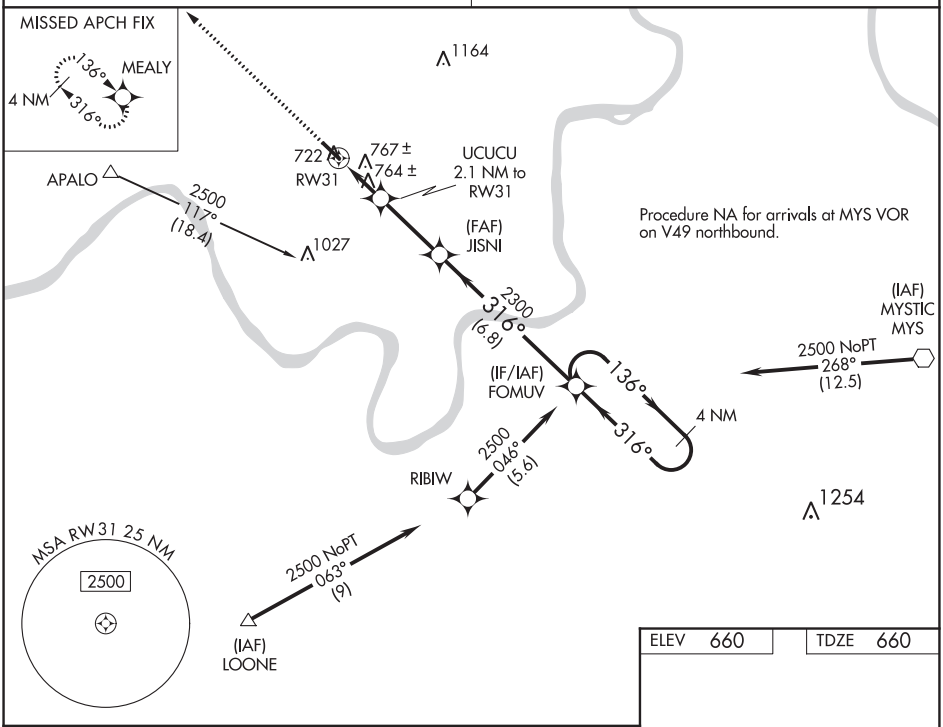
RNAV (GPS) RWY 31
PERRY COUNTY MUNI (TEL)

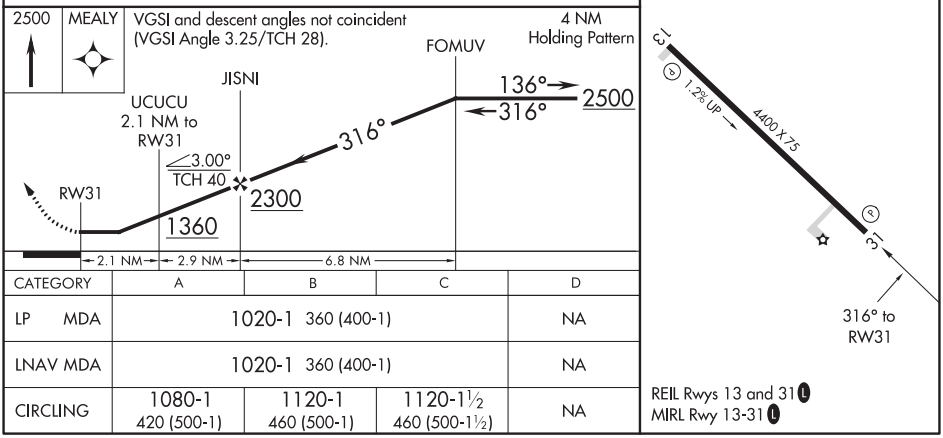
NA

When VGSI inop, Circling Rwy 13 NA at night. When VGSI inop, Straight-in/Circling Rwy 31 procedure NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received, use Huntingburg altimeter setting and increase all MDA 80 feet and increase LP and LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 2500 direct MEALY and hold.

EVANSVILLE APP CON ★	UNICOM
124.025 290.9	122.7 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	1020-1 360 (400-1)			NA
LNAV MDA	1020-1 360 (400-1)			NA
CIRCLING	1080-1 420 (500-1)	1120-1 460 (500-1)	1120-1½ 460 (500-1½)	NA

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TERRE HAUTE, INDIANA

AL-5939 (FAA)

18312

RNAV (GPS)-A

SKY KING (3I3)

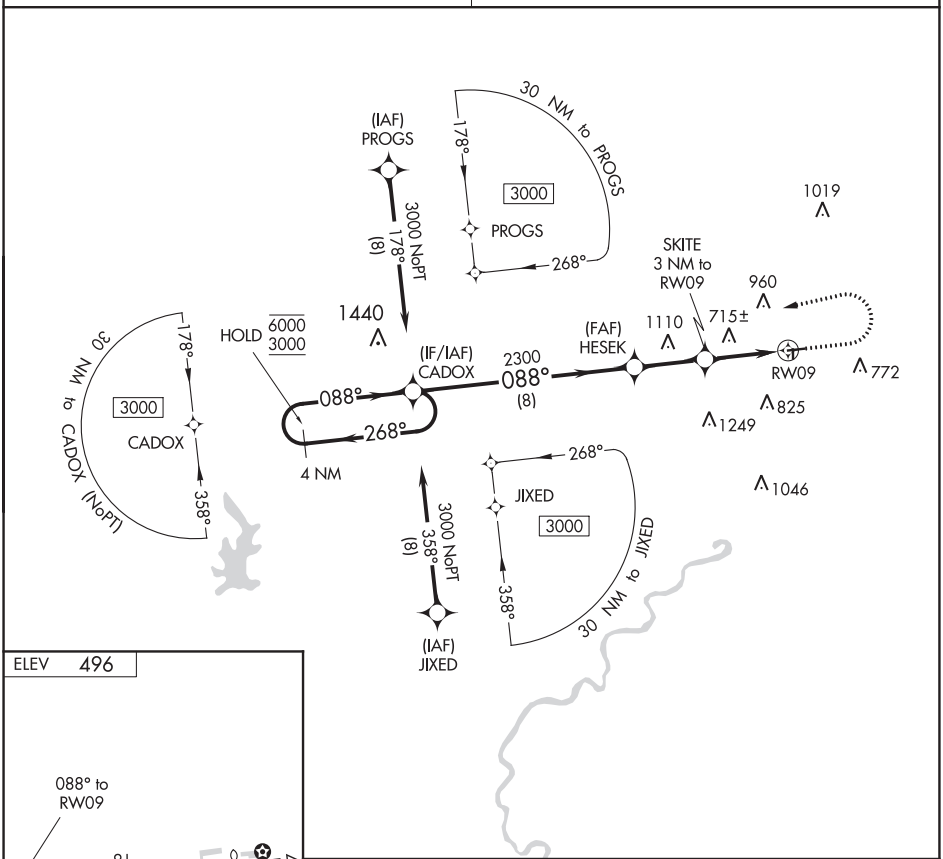
APP CRS	Rwy ldg	N/A
088°	TDZE	N/A
	Apt Elev	496

RNP APCH.

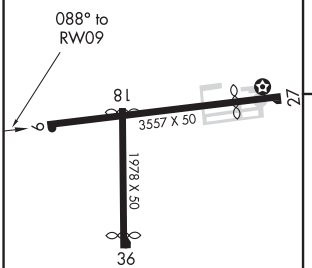
Procedure NA at night. Use Terre Haute altimeter setting; when not received, use Paris altimeter setting and increase all MDA 40 feet.

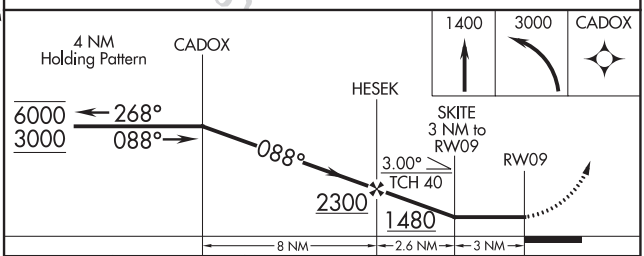
MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 direct CADOX and hold.

HULMAN APP CON	UNICOM
125.45 339.8	122.8 (CTAF) L



ELEV 496





CATEGORY	A	B	C	D
C CIRCLING	1000-1 504 (600-1)	1340-1¼ 844 (900-1¼)	NA	

LIRL Rwys 9-27 and 18-36 L

TERRE HAUTE, INDIANA
Amdt 1 08NOV18

39°33′N-87°23′W

SKY KING (3I3)
RNAV (GPS)-A

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ILS or LOC RWY 5
TERRE HAUTE RGNL (HUF)

LOC I-HUF	APP CRS	Rwy ldg	9020
109.7	049°	TDZE	573
		Apt Elev	589

ADF or DME required.

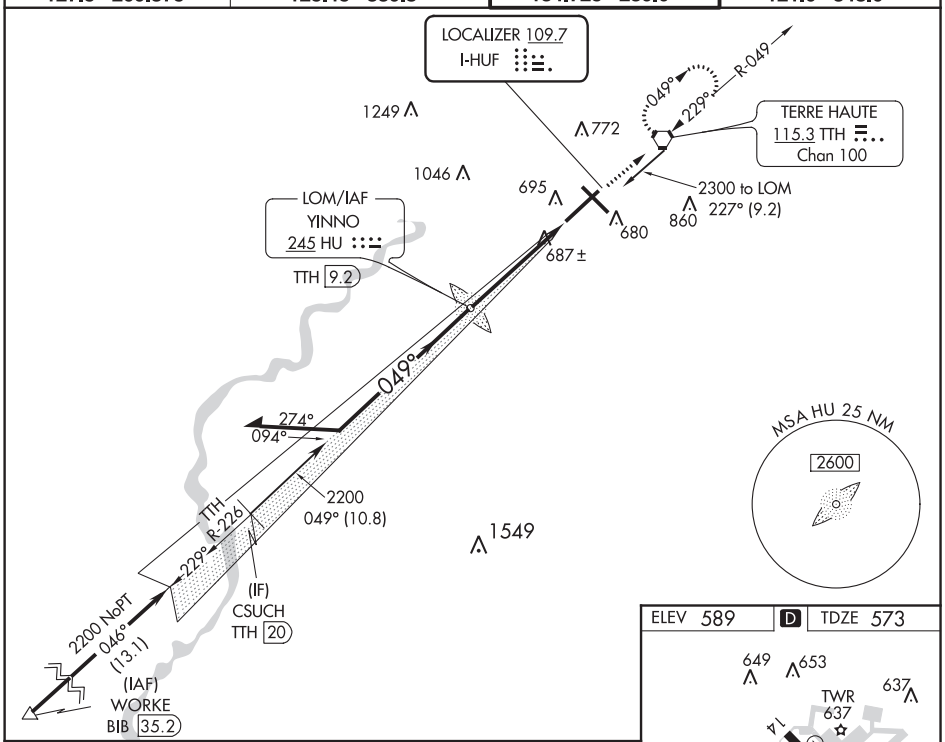
VDP NA when using Paris altimeter setting. When local altimeter setting not received, use Paris altimeter setting and increase all DA 61feet and all MDA 80 feet, increase S-LOC 5 Cats C/D visibility to RVR 4500. For inop ALS, increase S-LOC 5 Cat C/D visibility to RVR 5500, when using Paris altimeter setting increase S-ILS 5 all Cats visibilities to RVR 4500 and S-LOC Rwy 5 all Cats visibility ½ SM. **RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Paris altimeter setting.

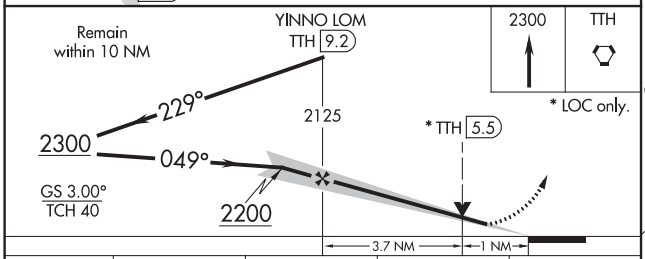
ASR

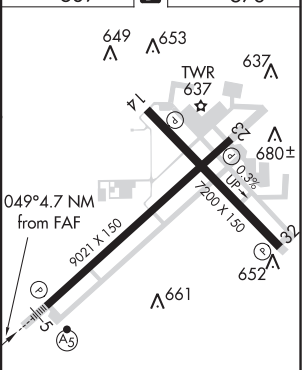
MALSR

MISSED APPROACH: Climb to 2300 direct TTH VORTAC and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6







CATEGORY	A	B	C	D
S-ILS 5 **	773/24 200 (200-½)			
S-LOC 5	940/24 367 (400-½)		940/35 367 (400-⅝)	
C CIRCLING	1040-1 451 (500-1)	1040-1 451 (500-1)	1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

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TERRE HAUTE, INDIANA | AL-608 (FAA) | 21056

WAAS CH 82109 W05A	APP CRS 049°	Rwy ldg 9020 TDZE 573 Apt Elev 589

RNAV (GPS) RWY 5
TERRE HAUTE RGNL (HUF)

RNP APCH.

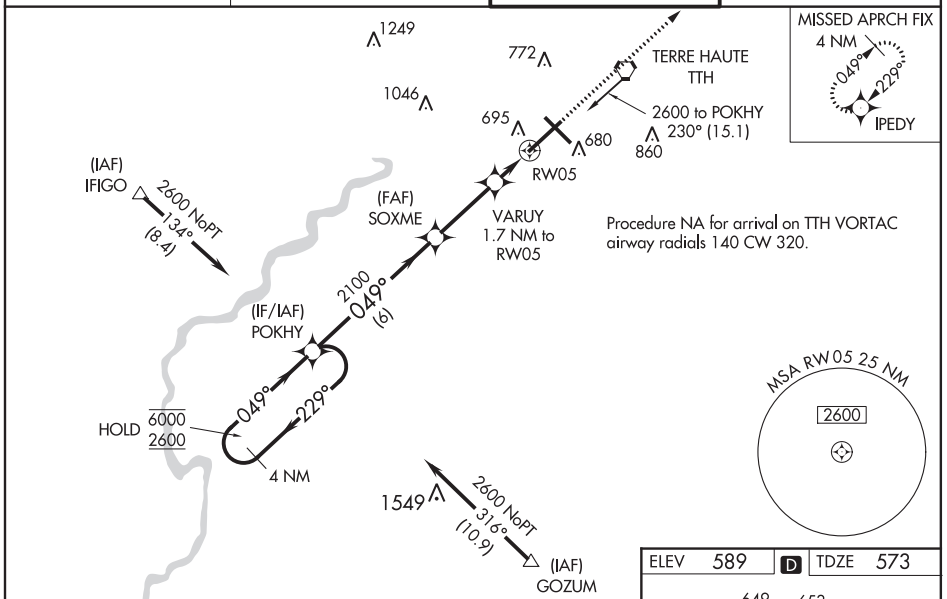
ASR

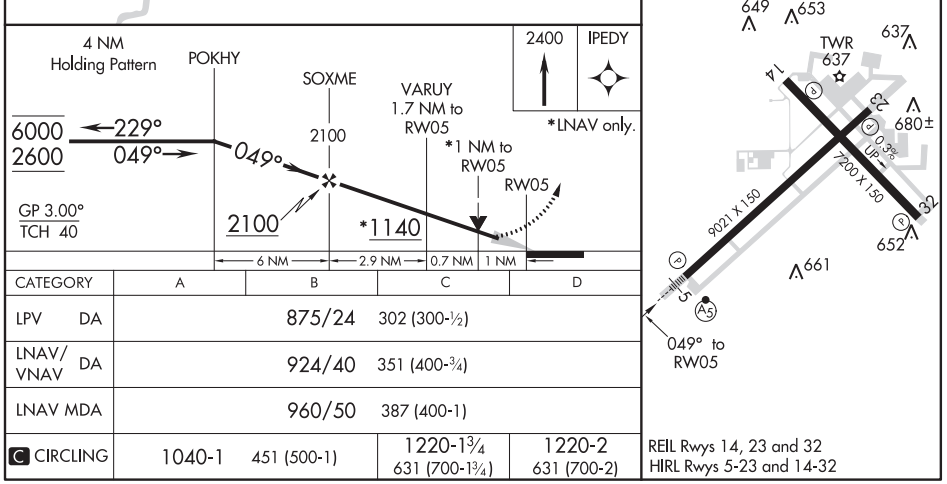
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C . VDP and Baro-VNAV NA when using Paris altimeter setting. When local altimeter setting not received, use Paris altimeter setting and increase all DA 61 feet, and all MDA 80 feet. Increase LPV all Cats visibility ¼ SM and Circling Cat C/D visibility ¼ SM. For inoperative ALS, increase LPV all Cats visibility to RVR 4500, LNAV/VNAV all Cats visibility to RVR 5500 and LNAV Cat C/D visibility to RVR 6000, when using Paris altimeter setting, increase LPV and LNAV/VNAV visibility all Cats to RVR 6000, increase LNAV Cat C/D visibility to 1⅜ SM.

MALSR

MISSED APPROACH: Climb to 2400 direct IPEDY and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6





CATEGORY	A	B	C	D
LPV DA	875/24 302 (300-½)			
LNAV/VNAV DA	924/40 351 (400-¾)			
LNAV MDA	960/50 387 (400-1)			
C CIRCLING	1040-1 451 (500-1)		1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32

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APP CRS	Rwy ldg	7200
137°	TDZE	579
	Apt Elev	589

RNAV (GPS) RWY 14
TERRE HAUTE RGNL (HUF)

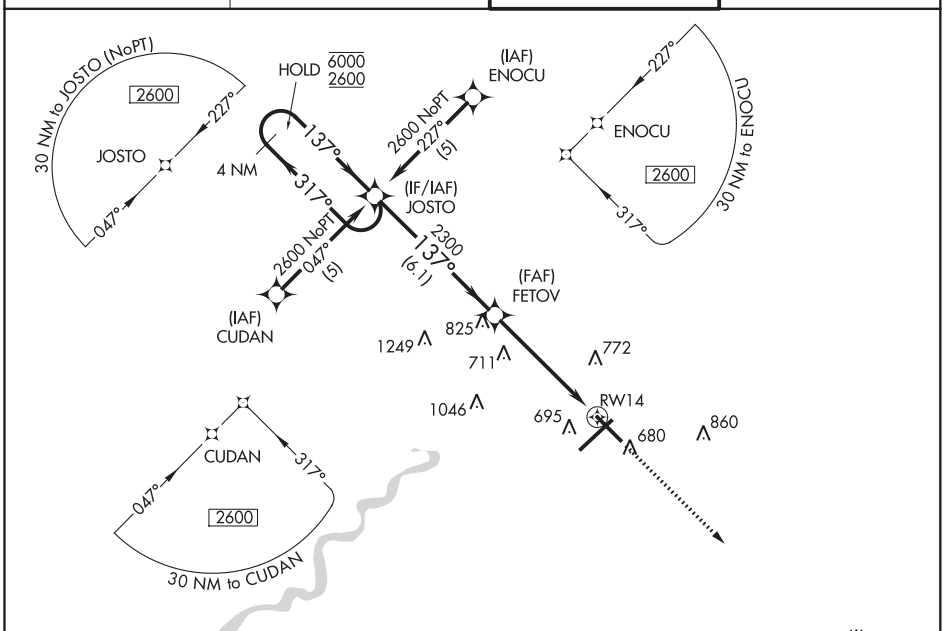
RNP APCH.

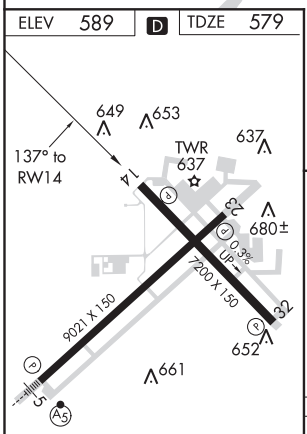
VDP NA when using Paris altimeter setting. When local altimeter setting not received, use Paris altimeter setting and increase all MDA 80 feet, increase LNAV and Circling Cat C/D visibility ¼ SM. Rwy 14 helicopter visibility reduction below ¾ SM NA.

ASR

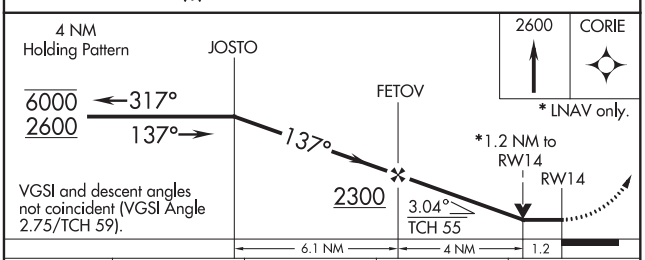
MISSED APPROACH: Climb to 2600 direct CORIE and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6





REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32



CATEGORY	A	B	C	D
LNAV MDA	1140-1	561 (600-1)	1140-1⅝	561 (600-1⅝)
C CIRCLING	1140-1	551 (600-1)	1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

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RNAV (GPS) RWY 23
TERRE HAUTE RGNL (HUF)

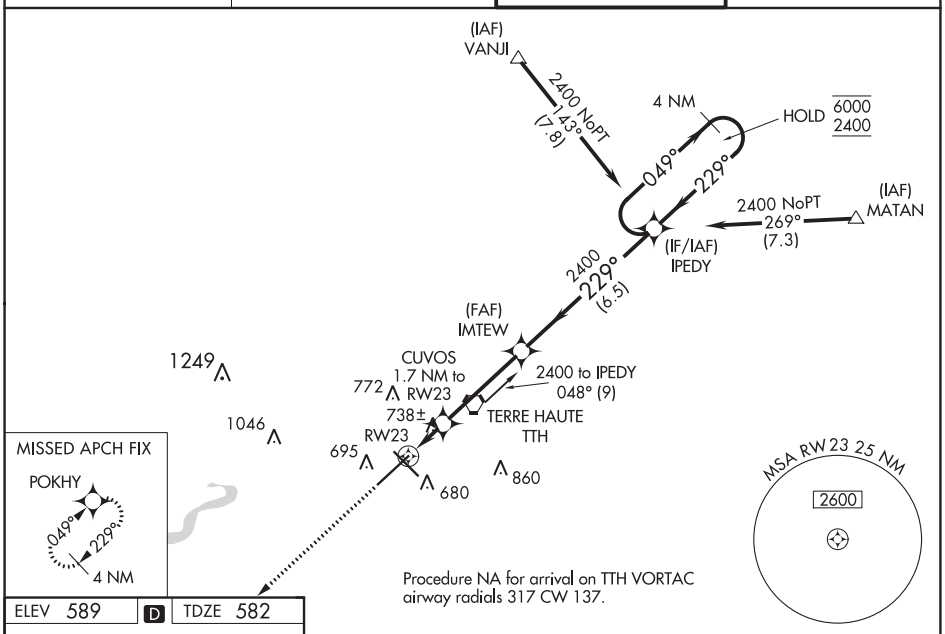
WAAS CH 72625 W23A	APP CRS 229°	Rwy ldg 9020 TDZE 582 Apt Elev 589

RNP APCH.

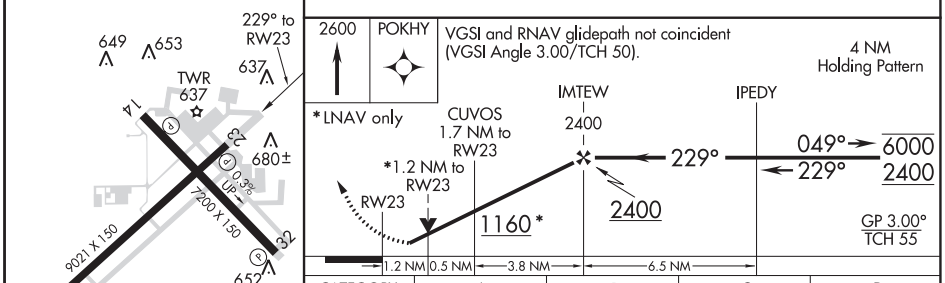
Baro-VNAV and VDP NA when using Paris altimeter setting. Rwy 23 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Paris altimeter setting and increase all DA 61 feet and all MDA 80 feet, increase LPV and LNAV/VNAV visibility all Cats ⅛ SM, increase LNAV and Circling Cats C/D visibilities ¼ SM.

MISSED APPROACH: Climb to 2600 direct POKHY and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6



ELEV 589 | D | TDZE 582



CATEGORY	A	B	C	D
LPV DA	890-⅞ 308 (400-⅞)			
LNAV/VNAV DA	874-⅞ 292 (300-⅞)			
LNAV MDA	1000-1 418 (500-1)		1000-1⅛ 418 (500-1⅛)	
C CIRCLING	1040-1 451 (500-1)		1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

HIRL Rwys 5-23 and 14-32
REIL Rwys 14, 23 and 32

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APP CRS	Rwy ldg	7200
317°	TDZE	589
	Apt Elev	589

RNAV (GPS) RWY 32
TERRE HAUTE RGNL (HUF)

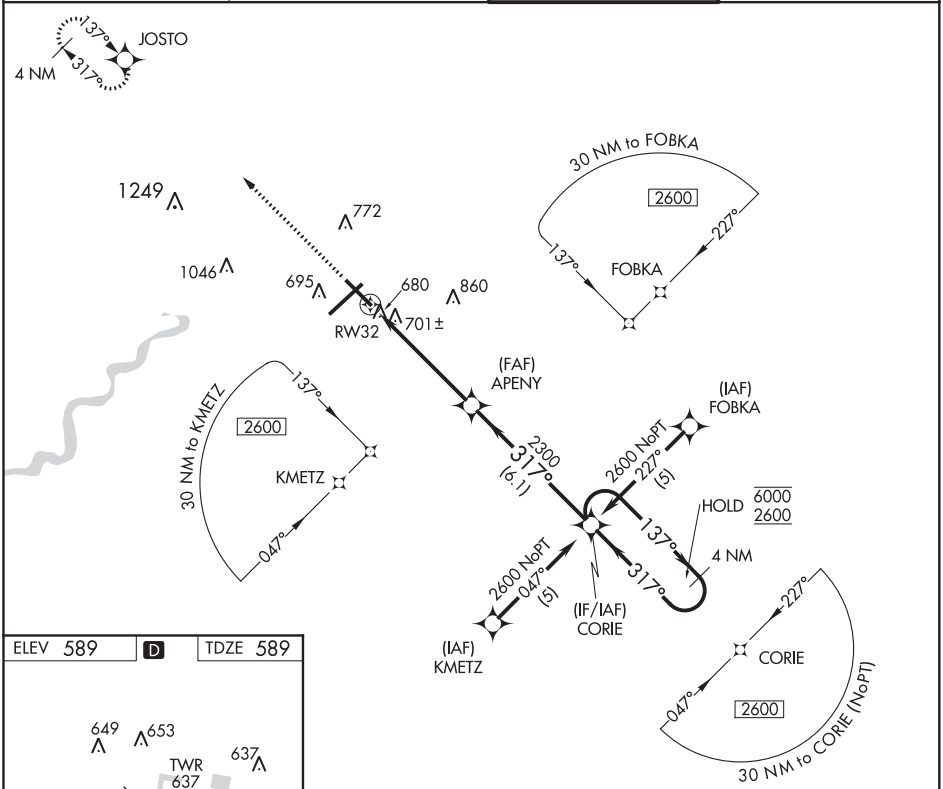
RNP APCH.

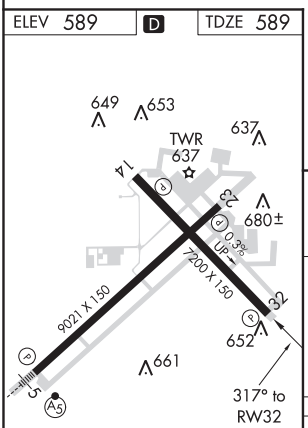
VDP NA when using Paris altimeter setting. Rwy 32 helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, use Paris altimeter setting and increase all MDAs 80 feet, LNAV Cat C/D visibility to 1⅜ SM and Circling Cat C/D ¼ SM.

ASR

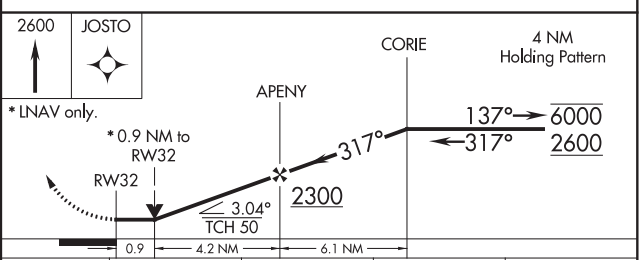
MISSED APPROACH: Climb to 2600 direct JOSTO and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6





REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32



CATEGORY	A	B	C	D
LNAV MDA	980-1	391 (400-1)	980-1⅛ 391 (400-1⅛)	980-1¼ 391 (400-1¼)
C CIRCLING	1040-1	451 (500-1)	1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

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TERRE HAUTE, INDIANA AL-608 (FAA) 21056

VOR RWY 5
TERRE HAUTE RGNL (HUF)

VORTAC TTH	APP CRS	Rwy ldg	9020
115.3	048°	TDZE	573
Chan 100		Apt Elev	589

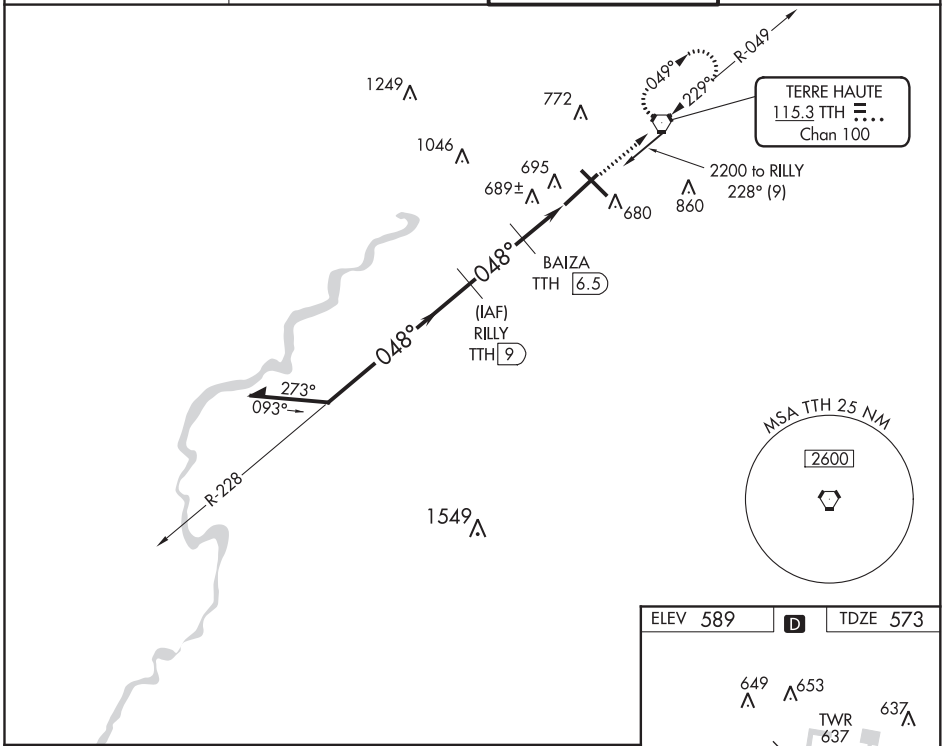
DME required.

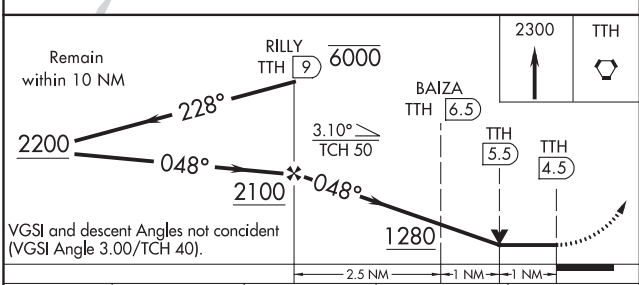
T A ASR — VDP NA when using Paris, IL altimeter setting. When local altimeter setting not received, use Paris altimeter setting and increase all MDA 80 feet and Circling Cat C/D visibility ¼ SM. For inop ALS, increase S-5 Cat C/D visibility to RVR 6000. Rwy 5 helicopter visibility reduction below ¾ SM NA.

MALSR A5

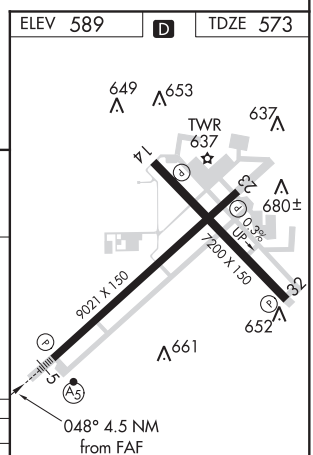
MISSED APPROACH: Climb to 2300 direct TTH VORTAC and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6





VGSI and descent Angles not concident (VGSI Angle 3.00/TCH 40).



REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32

CATEGORY	A	B	C	D
S-5	960/50 387 (400-1)			
C CIRCLING	1040-1 451 (500-1)		1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

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TERRE HAUTE, INDIANA
Amdt 18A 25FEB21

39°27′N-87°18′W

TERRE HAUTE RGNL (HUF)
VOR RWY 5

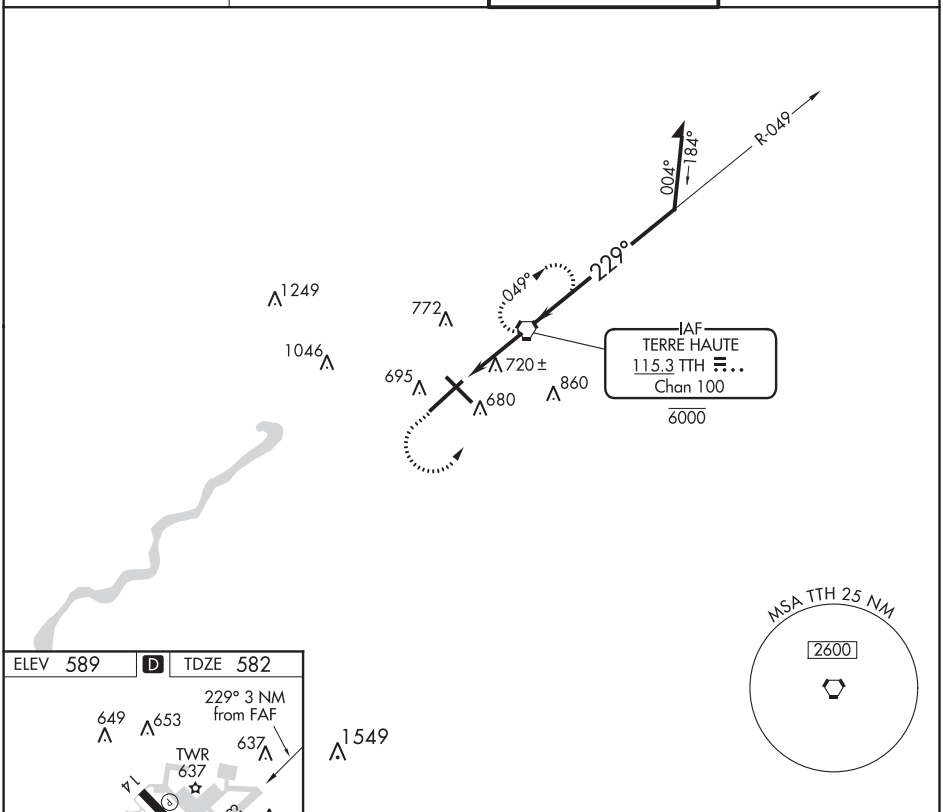
VORTAC TTH	APP CRS	Rwy ldg	9020
115.3	229°	TDZE	582
Chan 100		Apt Elev	589

VOR RWY 23
TERRE HAUTE RGNL (HUF)

ASR: VDP NA when using Paris, IL altimeter setting. When local altimeter setting not received, use Paris, IL altimeter setting and increase all MDA 80 feet, increase S-23 and Circling Cats C/D visibilities ¼ mile. Rwy 23 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2300 then left turn direct TTH VORTAC and hold.

ATIS	HULMAN APP CON	HULMAN TOWER	GND CON
127.5 269.375	125.45 339.8	134.725 239.0	121.6 348.6



REIL Rwys 14, 23 and 32
HIRL Rwys 5-23 and 14-32

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

CATEGORY	A	B	C	D
S-23	1000-1 418 (500-1)			
C CIRCLING	1040-1 451 (500-1)		1220-1¾ 631 (700-1¾)	1220-2 631 (700-2)

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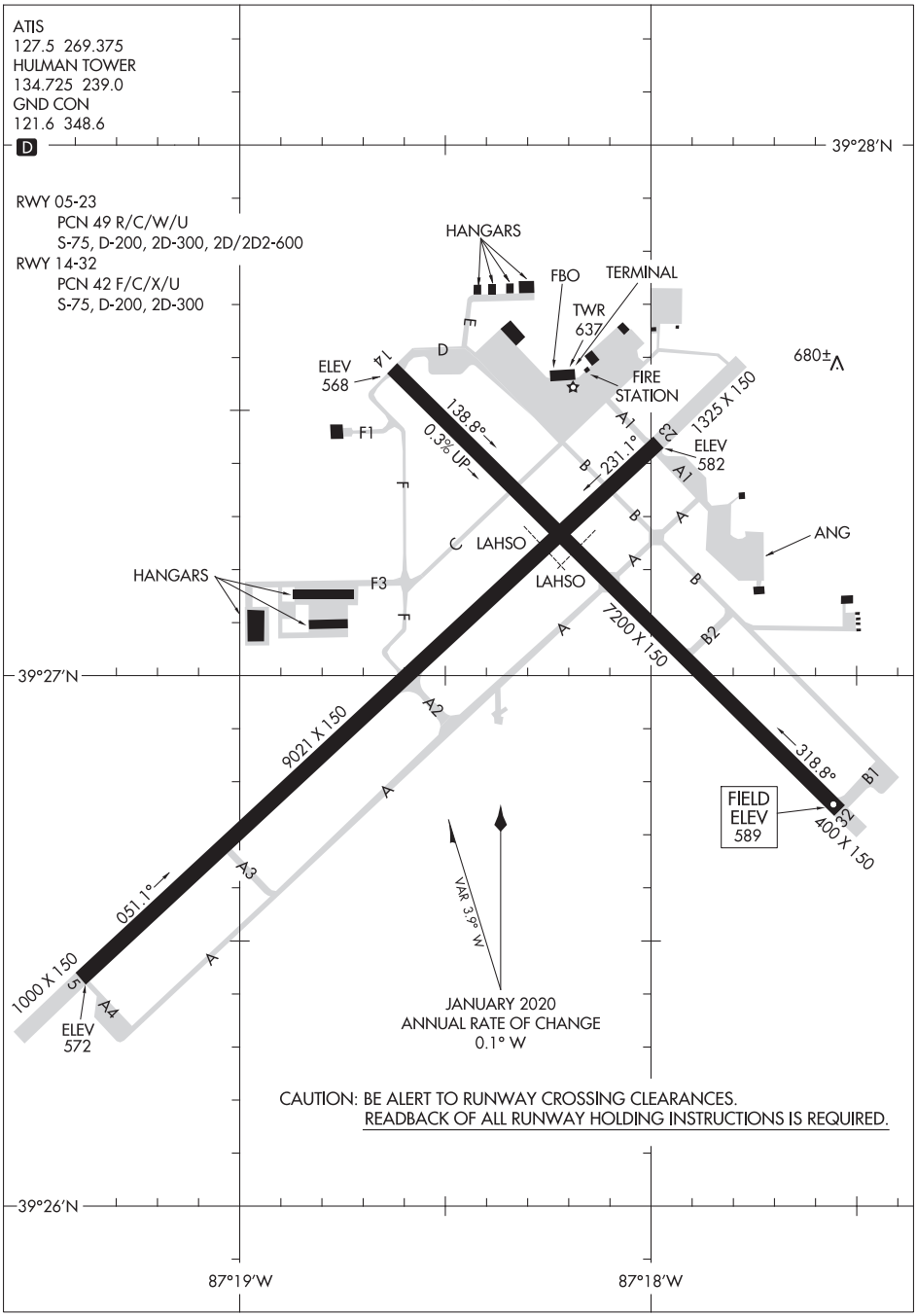
20310

AIRPORT DIAGRAM

AL-608 (FAA)

TERRE HAUTE RGNL (HUF)
TERRE HAUTE, INDIANA



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AIRPORT DIAGRAM
20310
TERRE HAUTE, INDIANA
TERRE HAUTE RGNL (HUF)

WAAS CH 77713 W06A	APP CRS 061°	Rwy ldg 4000 TDZE 786 Apt Elev 786

RNAV (GPS) RWY 6
SENECA COUNTY (16G)

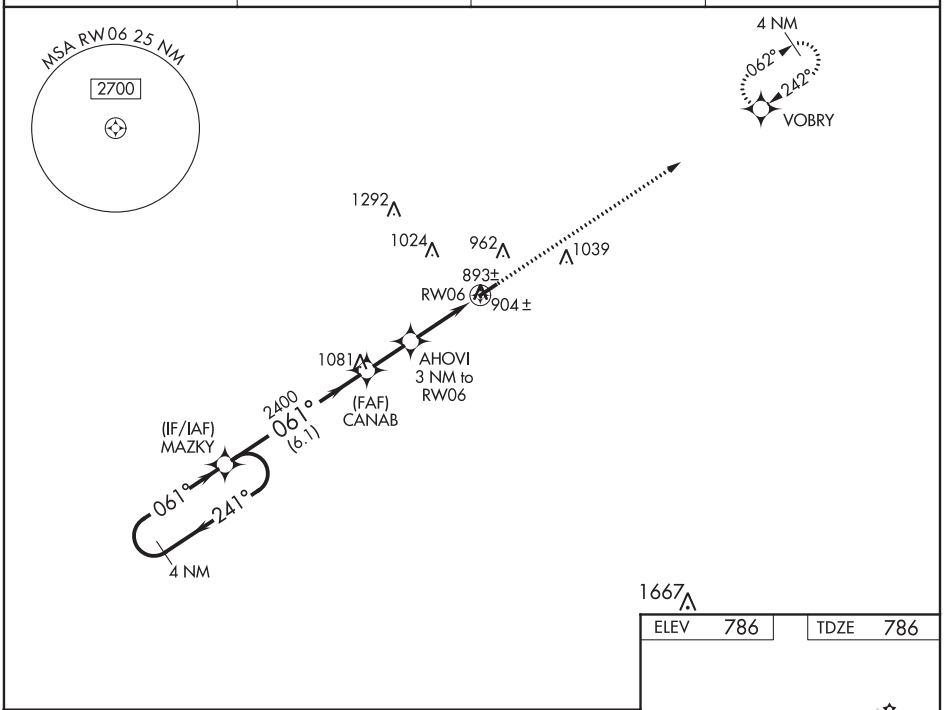
RNP APCH.

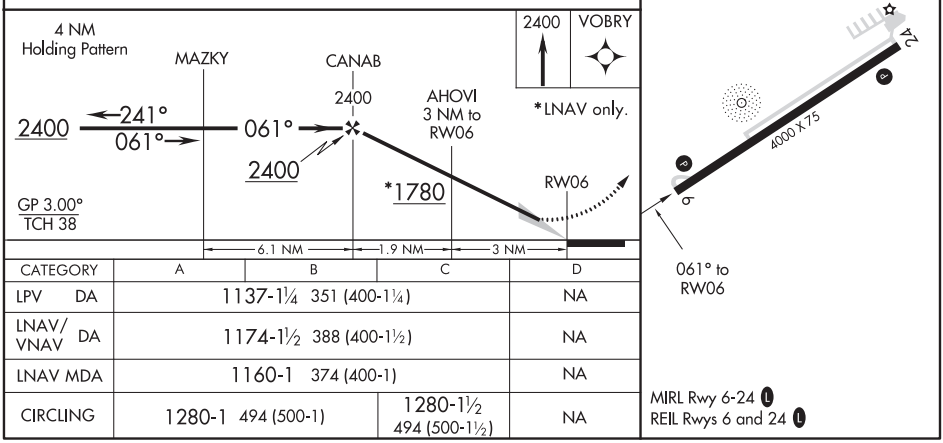
NA

Circling to Rwy 24 NA at night. Baro-VNAV NA when using Findlay altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Findlay altimeter setting and increase all DA/MDA 60 feet, increase LPV all Cats ¼ SM and LNAV Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 2400 direct VOBRY and hold.

AWOS-3	FDY ASOS	TOLEDO APP CON	UNICOM
127.175	132.85	120.8 317.55	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1137-1¼ 351 (400-1¼)			NA
LNAV/VNAV DA	1174-1½ 388 (400-1½)			NA
LNAV MDA	1160-1 374 (400-1)			NA
CIRCLING	1280-1 494 (500-1)		1280-1½ 494 (500-1½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021

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TIFFIN, OHIO — AL-5645 (FAA) — 20030

RNAV (GPS) RWY 24

SENECA COUNTY(16G)

WAAS CH 90528 W24A	APP CRS 242°	Rwy ldg 4000 TDZE 785 Apt Elev 786

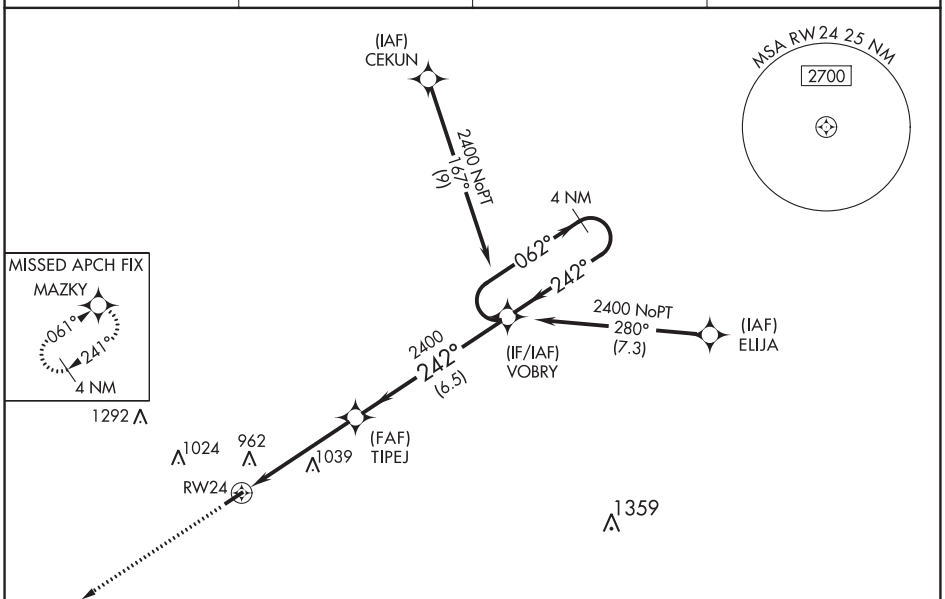
RNP APCH.

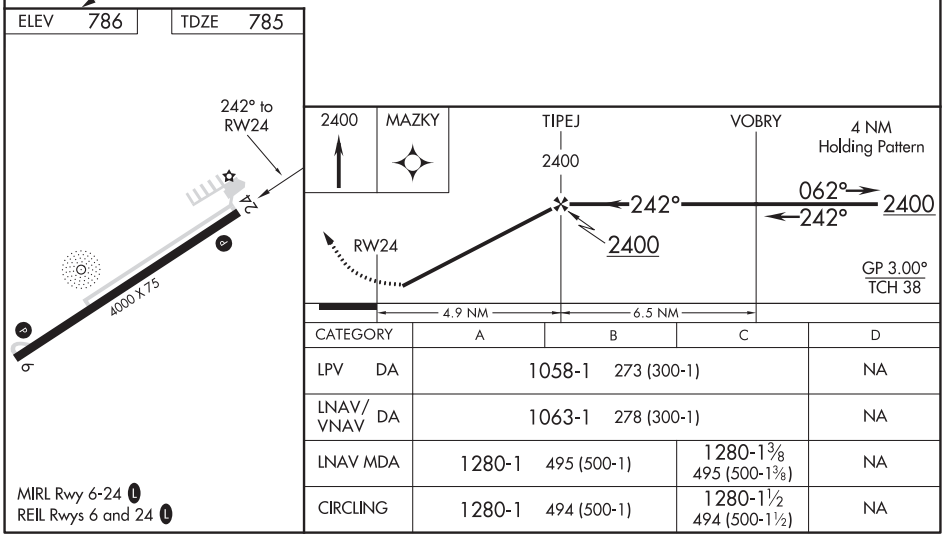
Circling to Rwy 24 NA at night. Baro-VNAV NA when using Findlay altimeter setting. Rwy 24 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Findlay altimeter setting and increase all DA/MDA 60 feet, and increase LPV, LNAV/VNAV all Cats and Circling Cat C visibility ⅛ SM, increase LNAV Cat C visibility ¼ mile.

NA

MISSED APPROACH: Climb to 2400 direct MAZKY and hold.

AWOS-3	FDY ASOS	TOLEDO APP CON	UNICOM
127.175	132.85	120.8 317.55	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1058-1 273 (300-1)			NA
LNAV/VNAV DA	1063-1 278 (300-1)			NA
LNAV MDA	1280-1 495 (500-1)		1280-1⅜ 495 (500-1⅜)	NA
CIRCLING	1280-1 494 (500-1)		1280-1½ 494 (500-1½)	NA

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

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VORTAC FBC 108.2 Chan 19	APP CRS 073°	Rwy ldg 4000 TDZE 786 Apt Elev 786

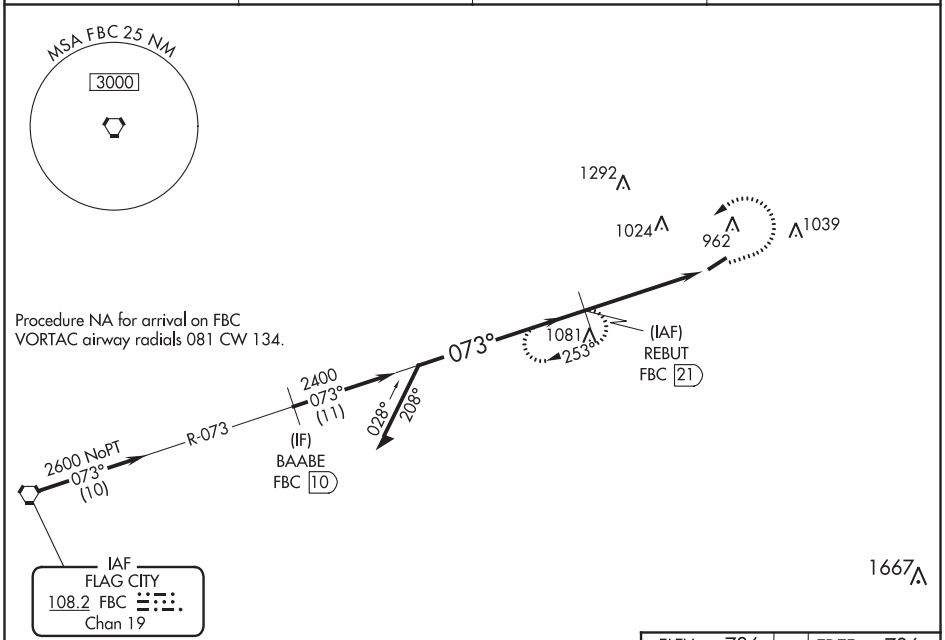
VOR RWY 6
SENECA COUNTY (16G)

DME required.

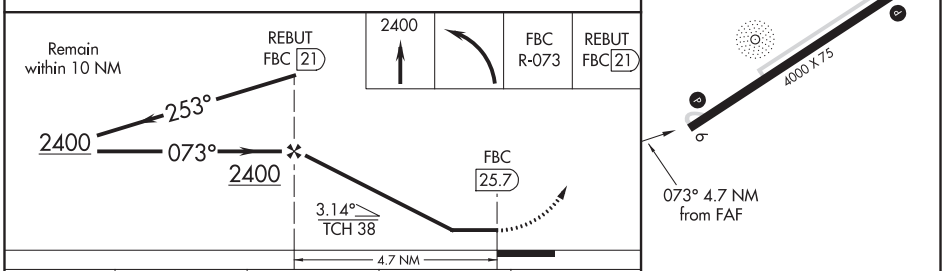
Circling to Rwy 24 NA at night. Rwy 6 helicopter reduction below ¾ SM NA. When local altimeter not received, use Findlay altimeter setting and increase all MDA 60 feet and S-6 Cat C visibility ⅛ SM and Circling Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 2400 then left turn on FBC VORTAC R-073 to REBUT/FBC 21 DME and hold.

AWOS-3	FDY ASOS	TOLEDO APP CON	UNICOM
127.175	132.85	120.8 317.55	123.0 (CTAF) L



ELEV 786	TDZE 786



CATEGORY	A	B	C	D
S-6	1400-1 614 (700-1)		1400-1¾ 614 (700-1¾)	NA
CIRCLING	1400-1 614 (700-1)	1400-1¼ 614 (700-1¼)	1400-1¾ 614 (700-1¾)	NA

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

EC-2, 25 FEB 2021 to 22 APR 2021

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TIFFIN, OHIO | AL-5645 (FAA) | 20030

NDB RWY 24
SENECA COUNTY (16G)

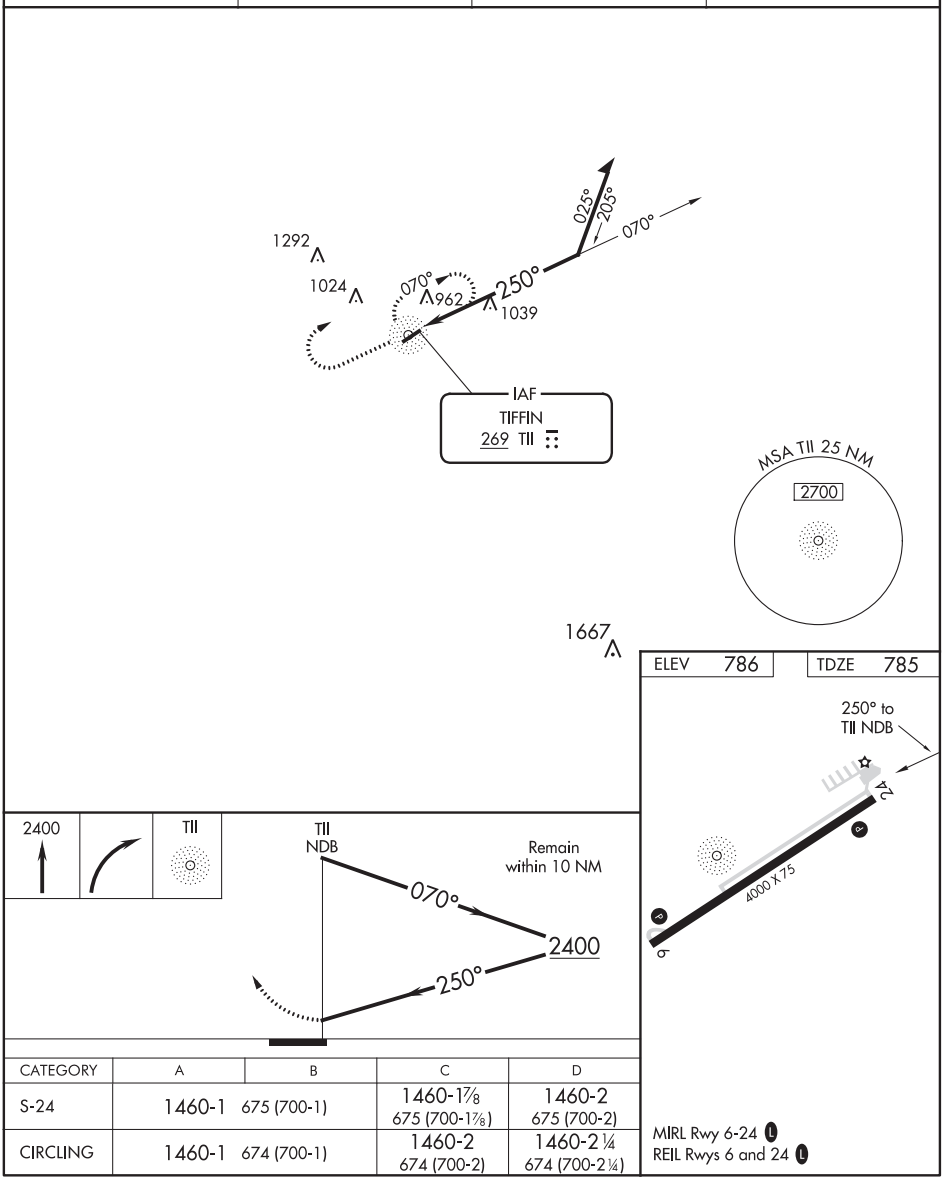
NDB TII	APP CRS	Rwy ldg / TDZE / Apt Elev
269	250°	4000 / 785 / 786

Rwy 24 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Findlay altimeter setting and increase all MDA 60 feet and increase S-24 Cat C visibility ⅛ SM. Straight-in Rwy 24 NA at night, Circling Rwy 24 NA at night.

NA

MISSED APPROACH: Climb to 2400 then right turn direct TII NDB and hold.

AWOS-3	FDY ASOS	TOLEDO APP CON	UNICOM
127.175	132.85	120.8 317.55	123.0 (CTAF) L



CATEGORY	A	B	C	D
S-24	1460-1 675 (700-1)		1460-1⅞ 675 (700-1⅞)	1460-2 675 (700-2)
CIRCLING	1460-1 674 (700-1)		1460-2 674 (700-2)	1460-2¼ 674 (700-2¼)

MIRL Rwy 6-24 L
REIL Rwys 6 and 24 L

EC-2, 25 FEB 2021 to 22 APR 2021

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ILS Z or LOC Z RWY 7
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

LOC I-TOL	APP CRS	Rwy ldg / TDZE / Apt Elev
109.7	072°	10600 / 683 / 683

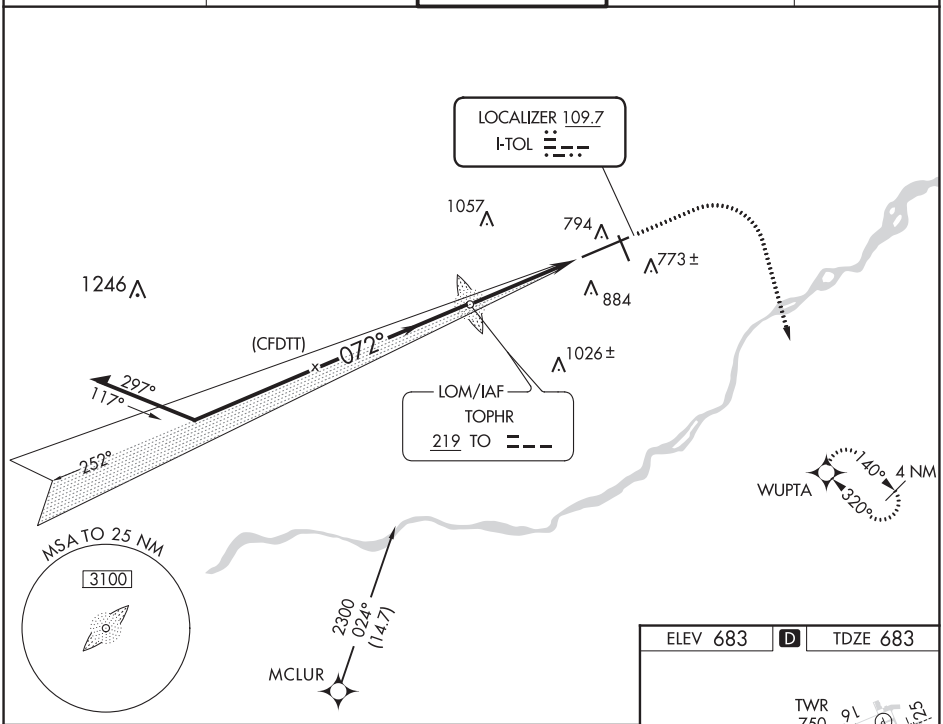
ADF or RADAR required for procedure entry. RNAV 1-GPS required. ADF required for LOC only.

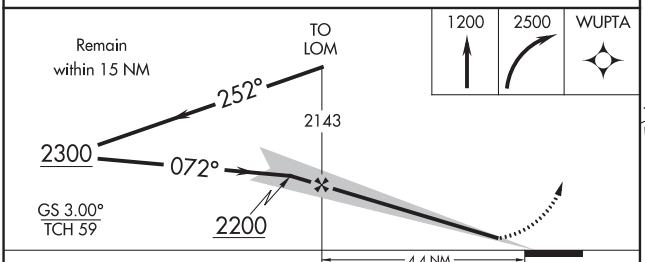
T A ASR — For inop ALS, increase S-ILS 7 Cat E visibility to RVR 4000, S-LOC 7 Cat C/D/E visibility to 1⅜ SM.

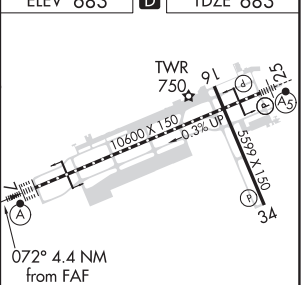
ALSF-2

MISSED APPROACH: Climb to 1200 then climbing right turn to 2500 direct WUPTA and hold.

ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6







TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34

CATEGORY	A	B	C	D	E
S-ILS 7	883/18 200 (200-½)				
S-LOC 7	1140/24 457 (500-½)		1140/45 457 (500-⅞)		
C CIRCLING	1200-1 517 (600-1)		1300-1¾ 617 (700-1¾)	1360-2¼ 677 (700-2¼)	1360-2½ 677 (700-2½)

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

TOLEDO, OHIO | AL-184 (FAA) | 20310

LOC/DME I-BQE	APP CRS	Rwy ldg 10600
108.7	252°	TDZE 678
Chan 24		Apt Elev 683

ILS Z or LOC Z RWY 25
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

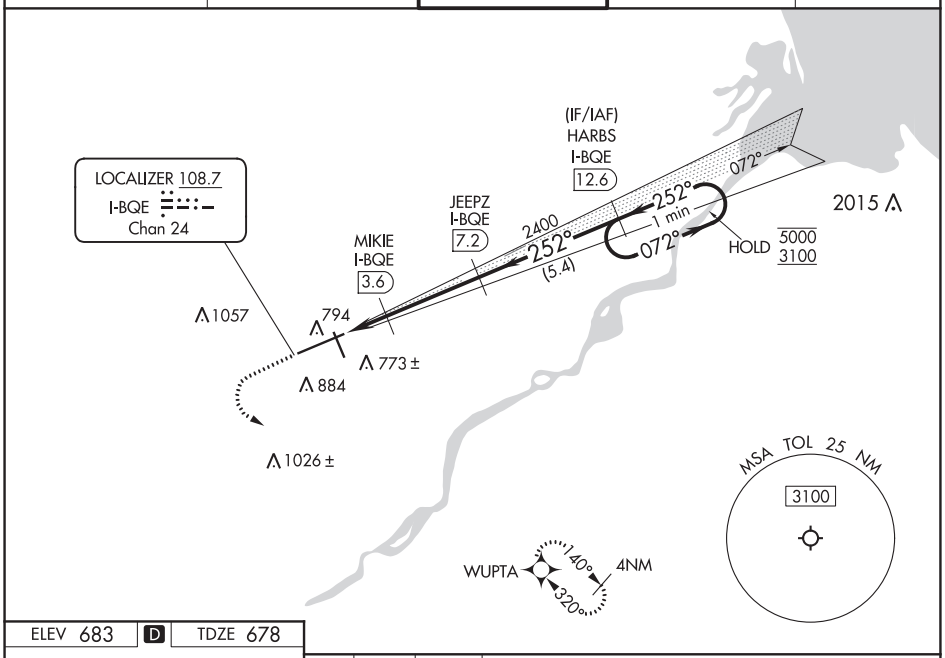
RADAR required for procedure entry. DME, RNAV 1-GPS required.

For inop ALS, increase S-ILS 25 Cat E visibility to RVR 4000, and S-LOC 25 Cat E visibility to RVR 5000.
ASR # RVR 1800 authorized with use of FD or AP or HUD to DA.

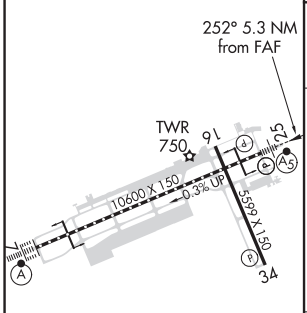
MALSR

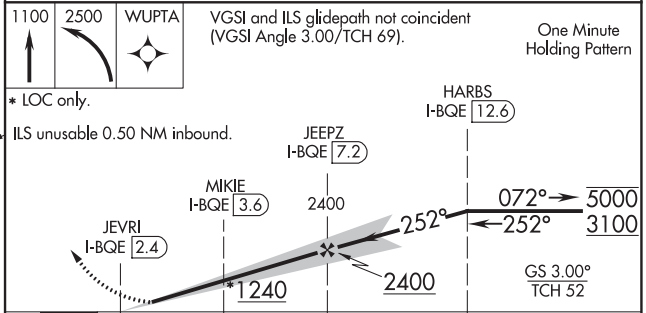
MISSED APPROACH: Climb to 1100 then climbing left turn to 2500 direct WUPTA and hold.

ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6



ELEV 683 | D | TDZE 678





CATEGORY	A	B	C	D	E
S-ILS 25 #	878/24 200 (200-½)				
S-LOC 25	1000/24 322 (400-½)		1000/26 322 (400-½)		
C CIRCLING	1200-1 517 (600-1)		1300-1¾ 617 (700-1¾)	1360-2¼ 677 (700-2¼)	1360-2½ 677 (700-2½)

TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 99399 W07A	APP CRS 072°	Rwy ldg 10600 TDZE 683 Apt Elev 683

RNAV (GPS) RWY 7
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

RNP APCH.

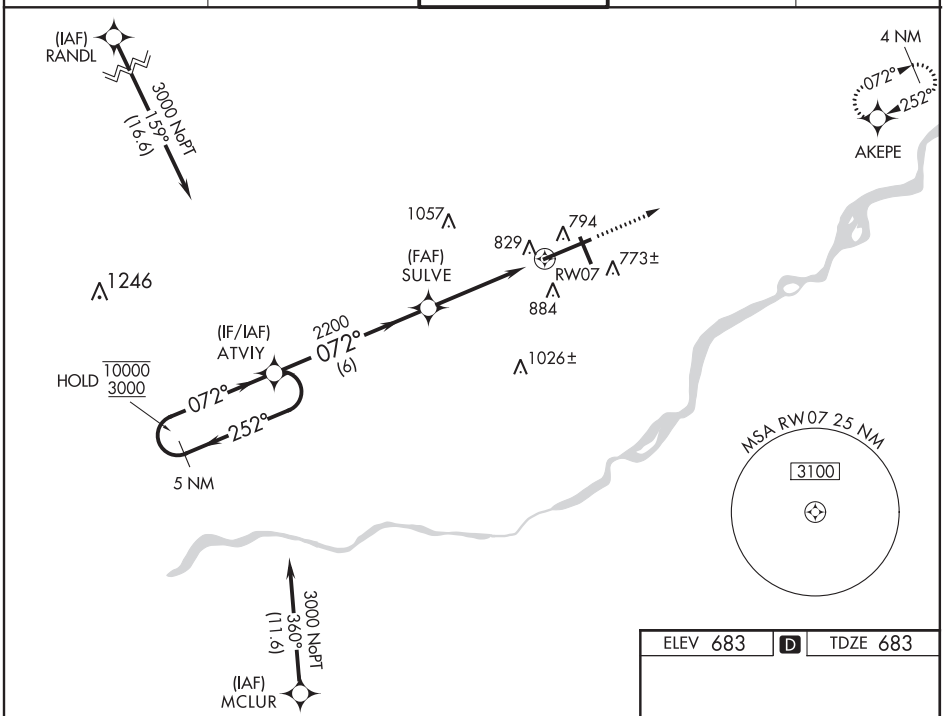
ASR

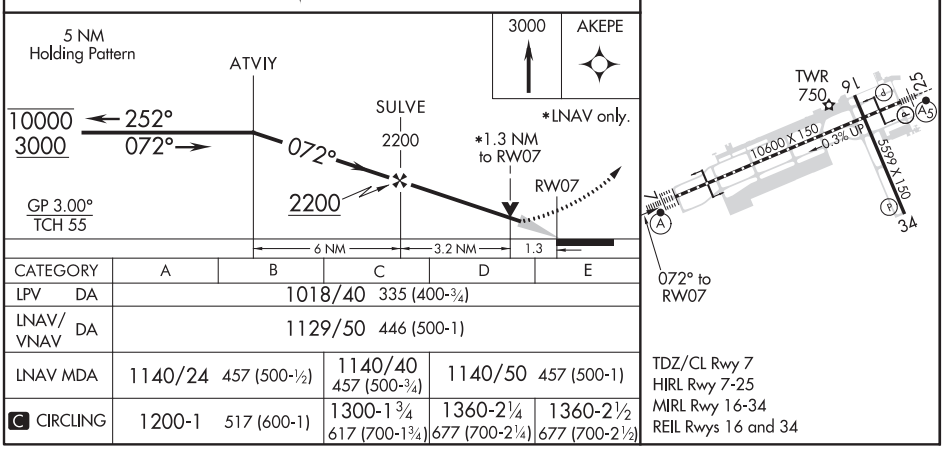
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 52°C. For inop ALS, increase LPV all Cats visibility to RVR 5000. Increase LNAV/VNAV Cat E and LNAV Cat E visibility to 1⅜ SM.

ALSF-2

MISSED APPROACH: Climb to 3000 direct AKEPE and hold.

ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6





CATEGORY	A	B	C	D	E
LPV DA	1018/40 335 (400-¾)				
LNAV/VNAV DA	1129/50 446 (500-1)				
LNAV MDA	1140/24 457 (500-½)		1140/40 457 (500-¾)	1140/50 457 (500-1)	
C CIRCLING	1200-1 517 (600-1)		1300-1¾ 617 (700-1¾)	1360-2¼ 677 (700-2¼)	1360-2½ 677 (700-2½)

TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

TOLEDO, OHIO | AL-184 (FAA) | 20310

APP CRS	Rwy ldg	5599
162°	TDZE	674
	Apt Elev	683

RNAV (GPS) RWY 16
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

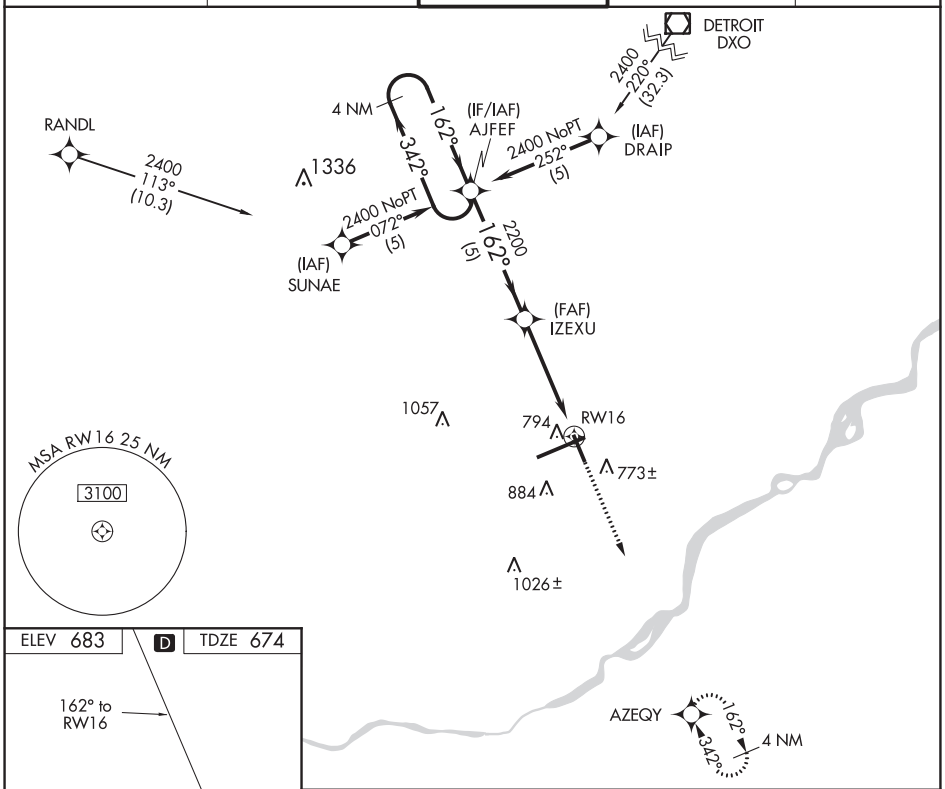
RNP APCH.

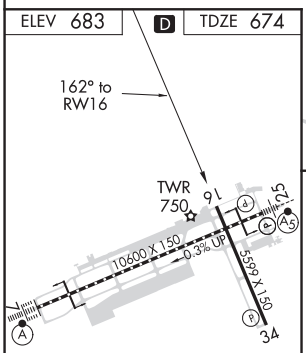
ASR

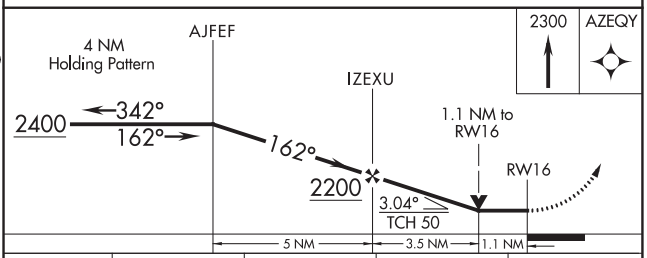
Rwy 16 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2300 direct AZEQY and hold.

ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6







TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34

CATEGORY	A	B	C	D
LNAV MDA	1060-1 386 (400-1)		1060-1⅛ 386 (400-1⅛)	1060-1¼ 386 (400-1¼)
C CIRCLING	1200-1 517 (600-1)		1360-2 677 (700-2)	1400-2¼ 717 (800-2¼)

TOLEDO, OHIO
Orig-B 05NOV20

41°35′N-83°48′W

EUGENE F KRANZ TOLEDO EXPRESS (TOL)
RNAV (GPS) RWY 16

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 48899 W25A	APP CRS 252°	Rwy ldg 10600 TDZE 678 Apt Elev 683

RNAV (GPS) RWY 25
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

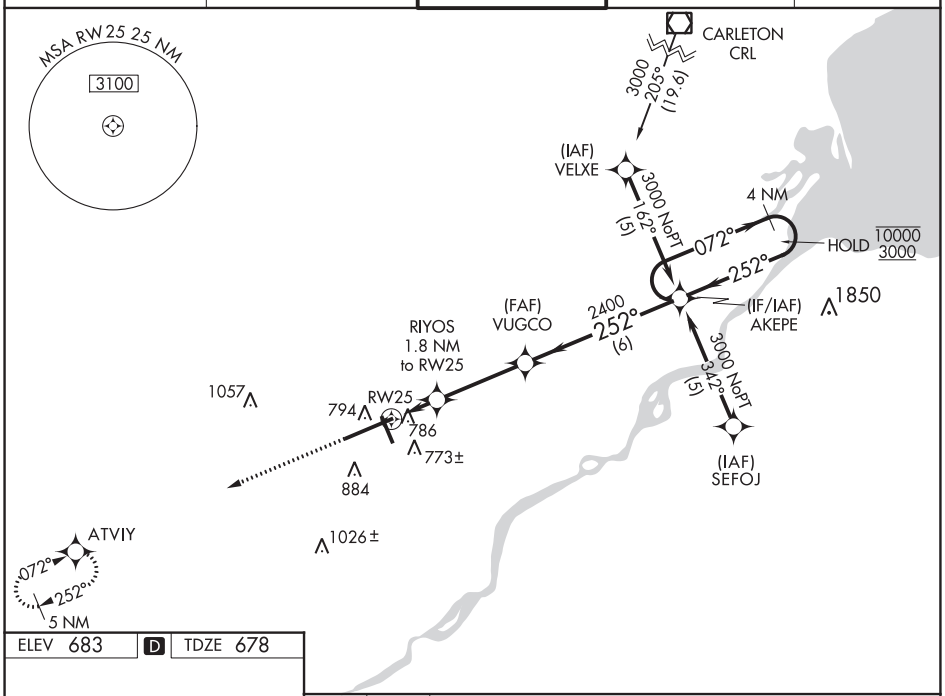
RNP APCH.

ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 52°C. For inoperative ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1½ SM, LNAV Cat D/E visibility to RVR 6000.
** RVR 1800 authorized with the use of FD or AP or HUD to DA.

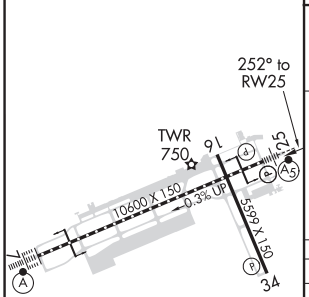
MALSR

MISSED APPROACH: Climb to 3000 direct ATVIY and hold.

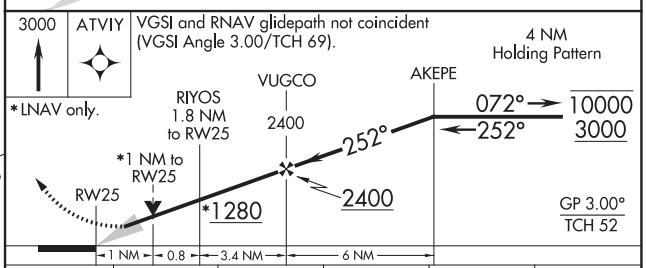
ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6



ELEV 683 | D | TDZE 678



TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34



CATEGORY	A	B	C	D	E
LPV DA**	878/24 200 (200-½)				
LNAV/VNAV DA	1065/50 387 (400-1)				
LNAV MDA	1040/24 362 (400-½)			1040/50 362 (400-1)	
C CIRCLING	1200-1 517 (600-1)		1300-1¾ 617 (700-1¾)	1360-2¼ 677 (700-2¼)	1360-2½ 677 (700-2½)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	5599
342°	TDZE	668
	Apt Elev	683

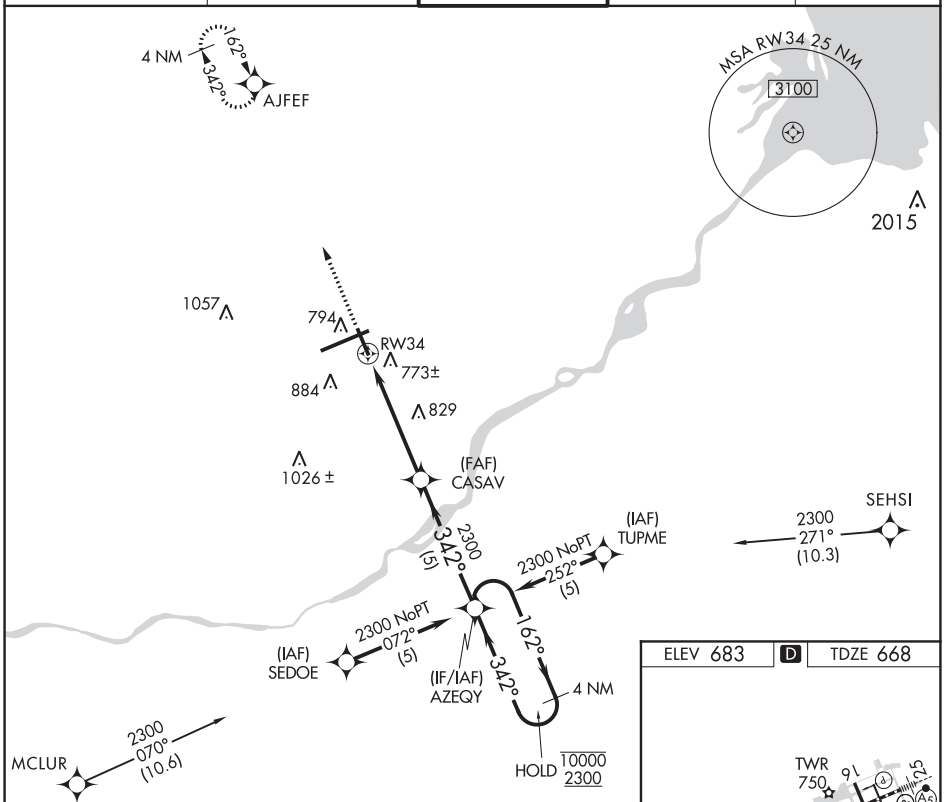
RNAV (GPS) RWY 34
EUGENE F KRANZ TOLEDO EXPRESS (TOL)

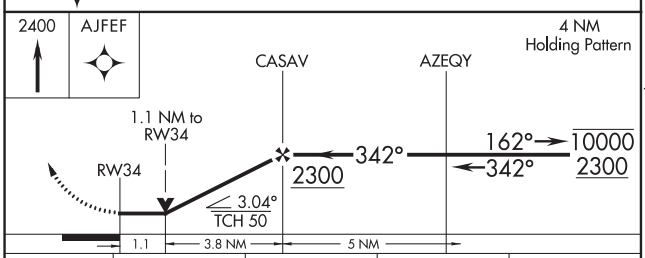
RNP APCH.

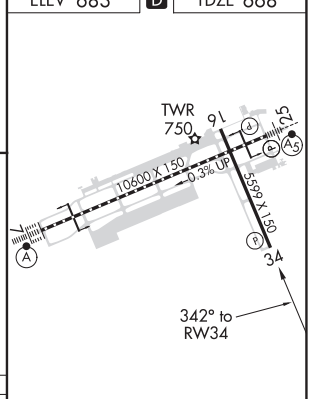
ASR Rwy 34 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2400 direct AJFEF and hold.

ATIS	TOLEDO APP CON	TOLEDO TOWER	GND CON	CLNC DEL
118.75 290.225	134.35 317.55	118.1 285.4	121.9 348.6	121.75 348.6



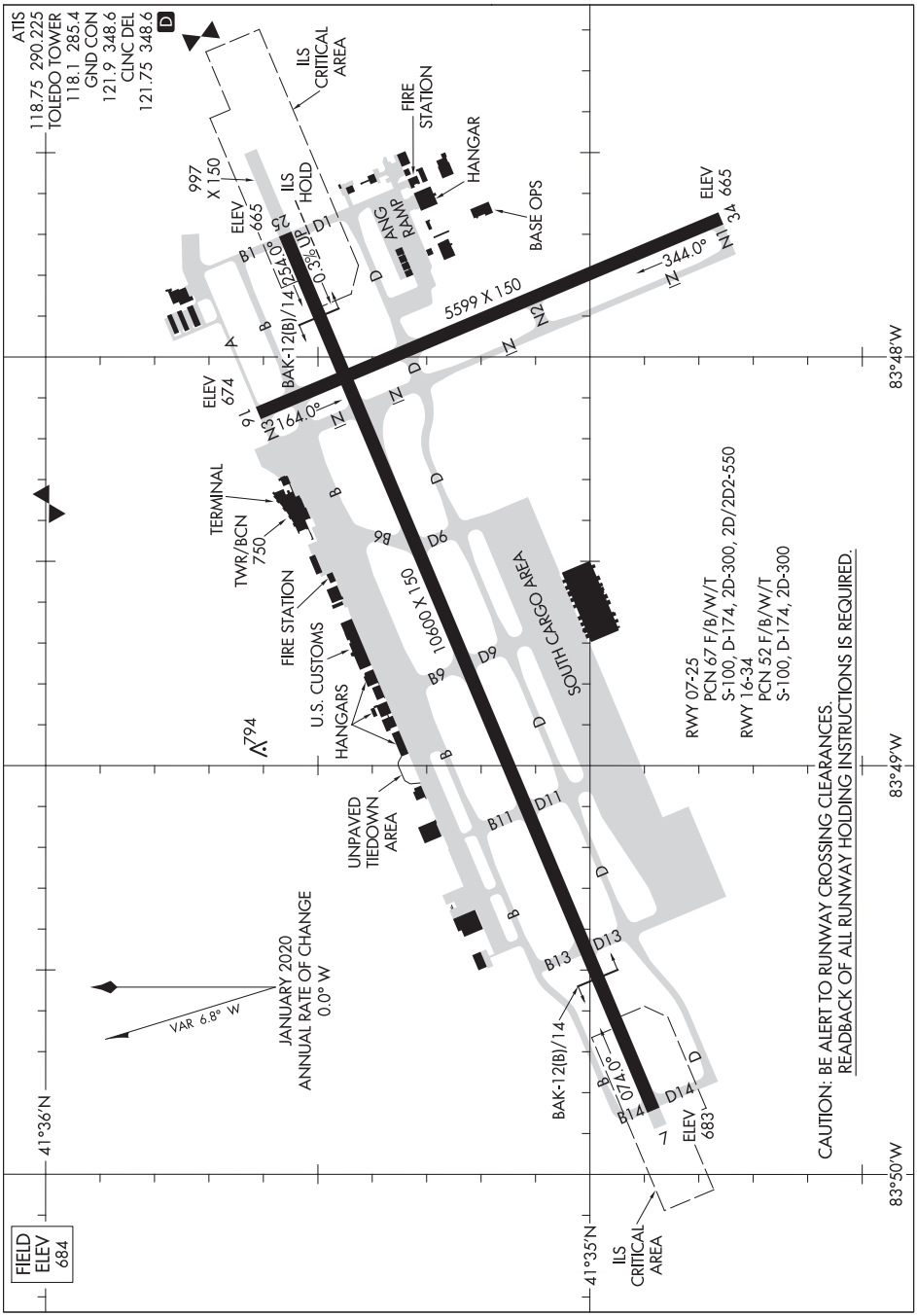




CATEGORY	A	B	C	D
LNAV MDA	1080-1 412 (400-1)		1080-1¼ 412 (400-1¼)	
C CIRCLING	1200-1 517 (600-1)		1300-1¾ 617 (700-1¾)	1360-2¼ 677 (700-2¼)

TDZ/CL Rwy 7
HIRL Rwy 7-25
MIRL Rwy 16-34
REIL Rwys 16 and 34

EC-2, 25 FEB 2021 to 22 APR 2021


ATIS
118.75 290.225
TOLEDO TOWER
118.1 285.4
GND CON
121.9 348.6
CLNC DEL
121.75 348.6
D
ILS CRITICAL AREA
FIRE STATION
HANGAR
BASE OPS
ELEV 665
997 X 150
ELEV 665
ILS HOLD
ANG RAMP
25
B1
D1
0.3% UP
BAK-12(B)/14 7,254.0'
5599 X 150
344.0°
34
N1
N2
A
B
D
ELEV 674
16
N3
164.0°
N
TERMINAL
TWR/BCN 750
FIRE STATION
U.S. CUSTOMS
HANGARS
B6
D6
10,690 X 150
B9
D9
SOUTH CARGO AREA
794
UNPAVED TIEDOWN AREA
B11
D11
B13
D13
BAK-12(B)/14
0.7% UP
B14
D14
7
ELEV 683
ILS CRITICAL AREA
RWY 07-25
PCN 67 F/B/W/T
S-100, D-174, 2D-300, 2D/2D2-550
RWY 16-34
PCN 52 F/B/W/T
S-100, D-174, 2D-300
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
JANUARY 2020
ANNUAL RATE OF CHANGE
0.0° W
VAR 6.8° W
FIELD ELEV 684
41°36'N
41°35'N
83°48'W
83°49'W
83°50'W

TOLEDO, OHIO | AL-421 (FAA) | 20142

RNAV (GPS) RWY 4
TOLEDO EXECUTIVE (TDZ)

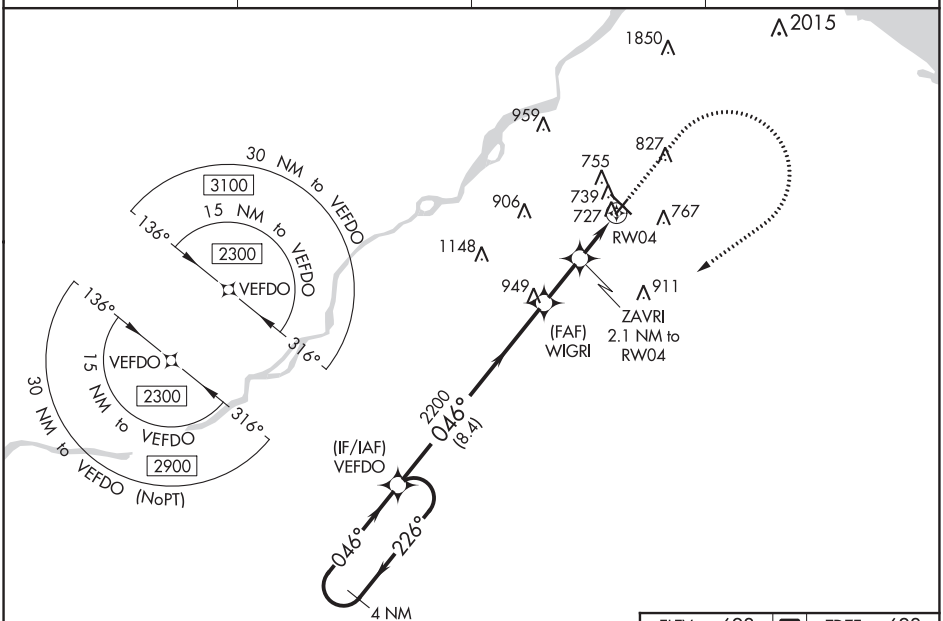
WAAS	APP CRS	Rwy ldg	3699
CH 82223	046°	TDZE	623
W04A		Apt Elev	623

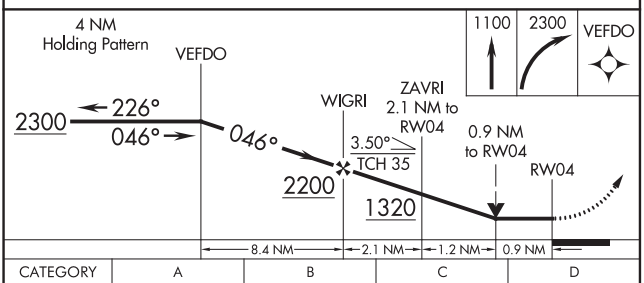
RNP APCH.

Circling Rwy 14 NA at night. Rwy 4 helicopter visibility reduction below ¾SM NA. When local altimeter setting not received, use Toledo Express altimeter setting and increase all MDA 60 feet, LP Cats C/D visibility ⅛ mile, increase LNAV and Circling Cats C/D visibility ¼ mile.

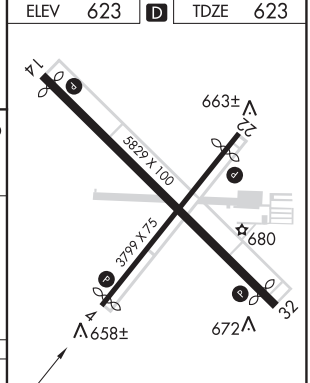
MISSED APPROACH: Climb to 1100 then climbing right turn to 2300 direct VEFDO and hold.

ASOS	TOLEDO APP CON	CLNC DEL	UNICOM
121.575	126.1 307.0	125.6	123.05 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	980-1 357 (400-1)			
LNAV MDA	1000-1 377 (400-1)			
C CIRCLING	1080-1 457 (500-1)	1100-1 477 (500-1)	1200-1½ 577 (600-1½)	1320-2¼ 697 (700-2¼)



MIRL Rwys 4-22 and 14-32 L
REIL Rwys 4, 14, and 22 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 70524 W32A	APP CRS 321°	Rwy ldg 4927 TDZE 621 Apt Elev 623

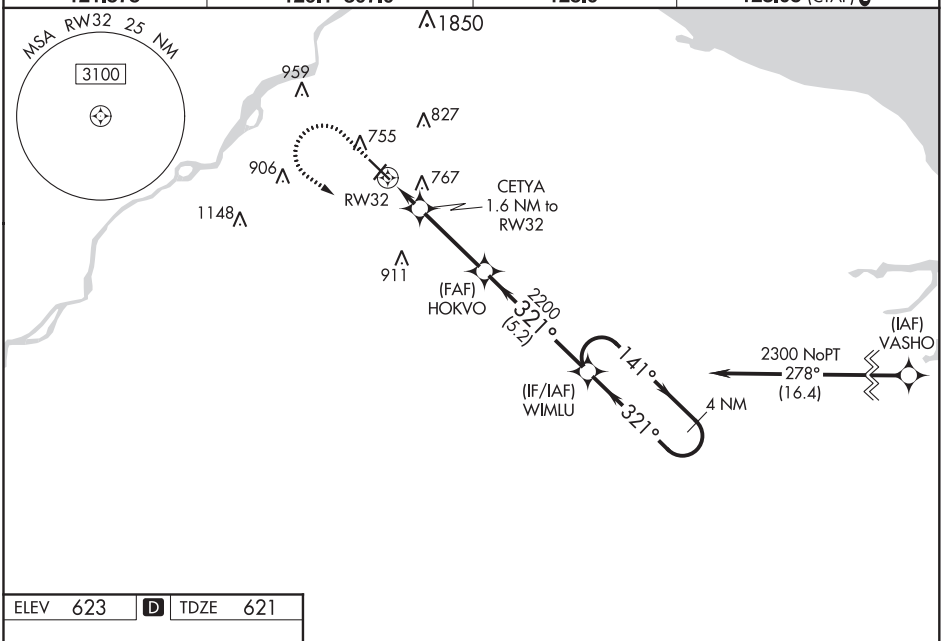
RNAV (GPS) RWY 32
TOLEDO EXECUTIVE (TDZ)

RNP APCH.

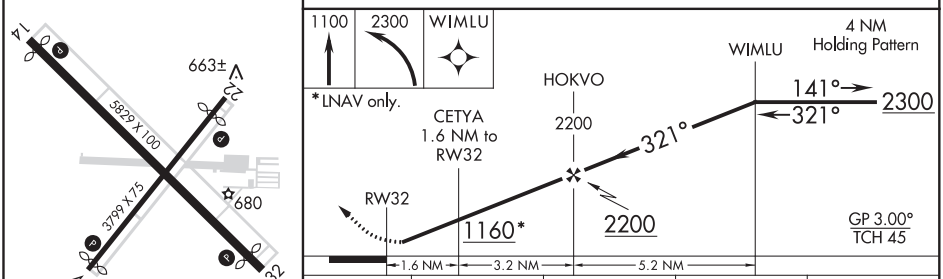
Circling Rwy 14 NA at night. Baro-VNAV NA when using Toledo Express altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). Rwy 32 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Toledo Express altimeter setting and increase LPV DA to 914, LNAV/VNAV to 1123, increase LPV all Cats visibility ⅛ SM. Increase all MDA 60 feet and increase LNAV Cats C and D and Circling Cat D visibility ¼ SM.

MISSED APPROACH: Climb to 1100 then climbing left turn to 2300 direct WIMLU and hold.

ASOS	TOLEDO APP CON	CLNC DEL	UNICOM
121.575	126.1 307.0	125.6	123.05 (CTAF) L



ELEV 623 | D | TDZE 621



CATEGORY	A	B	C	D
LPV DA	871-¾ 250 (300-¾)			
LNAV/VNAV DA	1080-1⅜ 459 (500-1⅜)			
LNAV MDA	1020-1 399 (400-1)		1020-1⅛ 399 (400-1⅛)	
C CIRCLING	1080-1 457 (500-1)	1100-1 477 (500-1)	1200-1½ 577 (600-1½)	1320-2¼ 697 (700-2¼)

REIL Rwys 4, 14 and 22 L
MIRL Rwys 4-22 and 14-32 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

UPPER SANDUSKY, OHIO | AL-6381 (FAA) | 20310

VORTAC FBC	APP CRS	Rwy ldg	N/A
108.2	104°	TDZE	N/A
Chan 19		Apt Elev	830

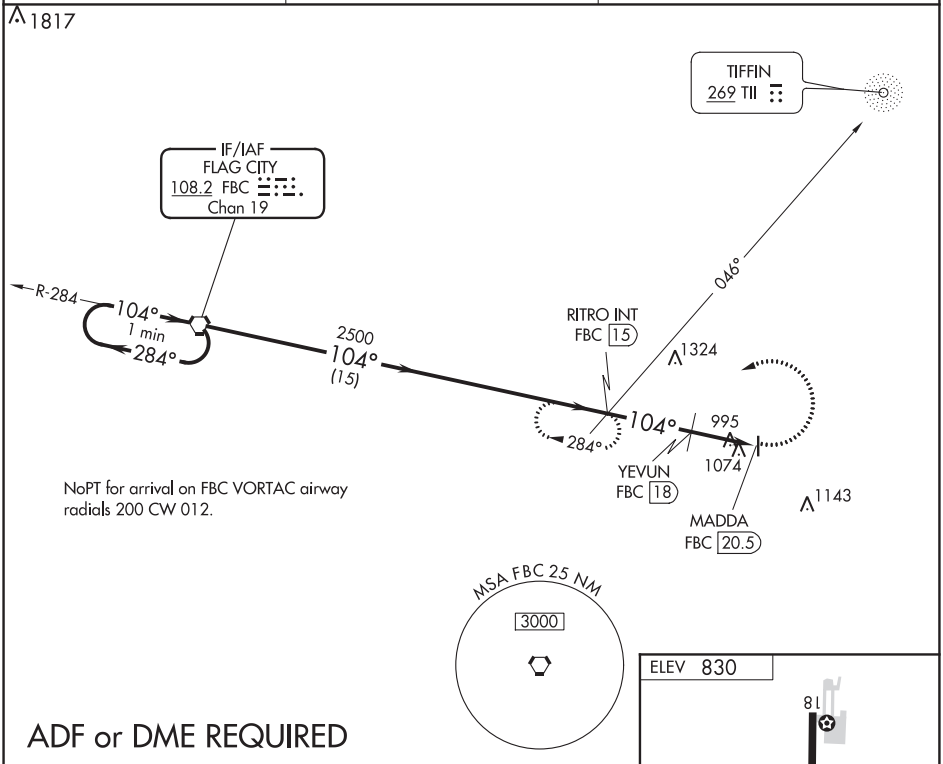
VOR-A
WYANDOT COUNTY (56D)

NA

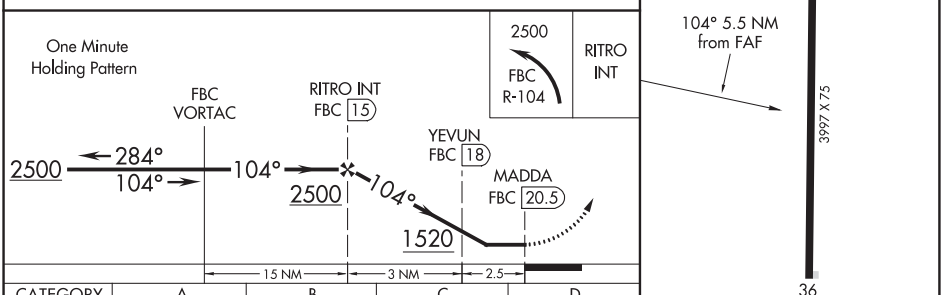
Procedure NA at night. Use Findlay altimeter setting, when not received, use Marion altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 2500 on FBC VORTAC R-104 to RITRO INT/15 DME and hold.

FDY ASOS	CLEVELAND APP CON ★	UNICOM
132.85	124.2 360.65	123.05 (CTAF) L



ADF or DME REQUIRED



LIRL Rwy 18-36 L

CATEGORY	A	B	C	D
CIRCLING	1520-1 690 (700-1)	1520-1¼ 690 (700-1¼)	1520-2 690 (700-2)	1520-2¼ 690 (700-2¼)
YEVUN FIX MINIMUMS (DME REQUIRED)				
CIRCLING	1420-1 590 (600-1)	1420-1¼ 590 (600-1¼)	1420-1½ 590 (600-1½)	1420-2 590 (600-2)

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 53719 W02A	APP CRS 022°	Rwy ldg 4400 TDZE 1068 Apt Elev 1068

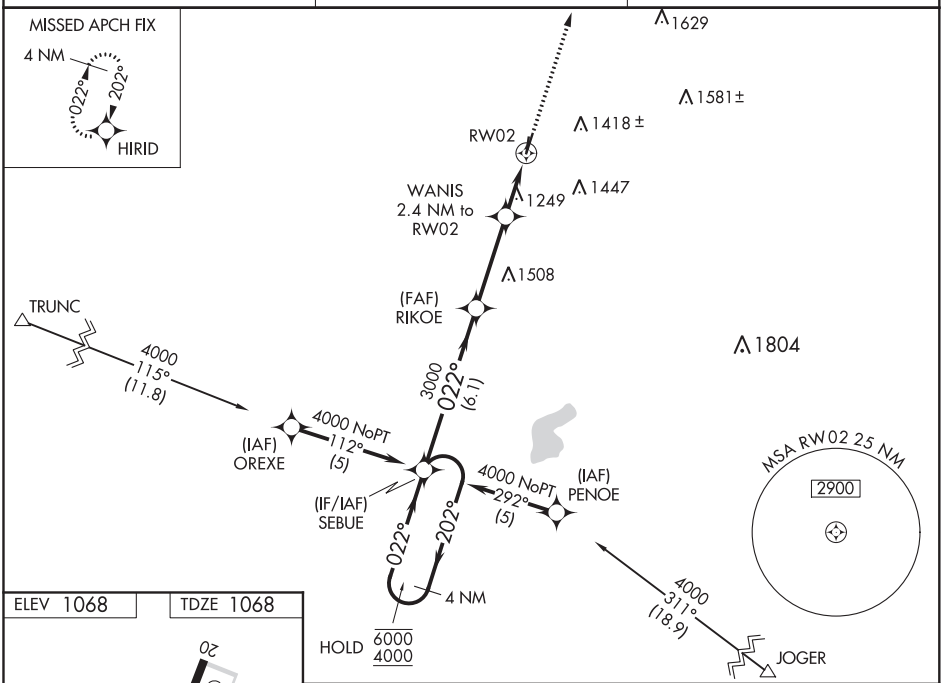
RNAV (GPS) RWY 2
GRIMES FIELD (I74)

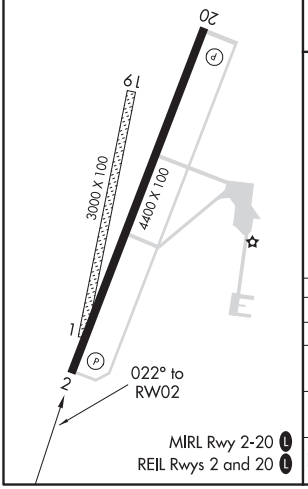
RNP APCH.

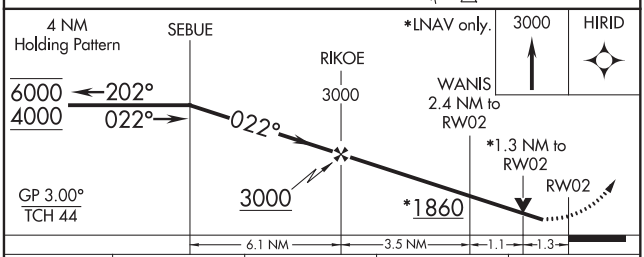
Baro-VNAV and VDP NA when using Springfield altimeter setting. Rwy 2 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C. When local altimeter setting not received, use Springfield altimeter setting and increase all DAs 44 feet, all MDAs 60 feet, increase LNAV/VNAV all Cats visibility ¼ SM, and increase Circling Cat C visibility ¼ SM. Circling NA to Rwys 1 and 19.

MISSED APPROACH: Climb to 3000 direct HIRID and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 294.5	122.7 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	1318-1 250 (300-1)			NA
LNAV/VNAV DA	1501-1½ 433 (500-1½)			NA
LNAV MDA	1500-1 432 (500-1)		1500-1¼ 432 (500-1¼)	NA
C CIRCLING	1580-1 512 (600-1)	1780-1 712 (800-1)	1800-2 732 (800-2)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

URBANA, OHIO | AL-6706 (FAA) | 20086

WAAS CH 78419 W20A	APP CRS 202°	Rwy ldg 4400 TDZE 1068 Apt Elev 1068

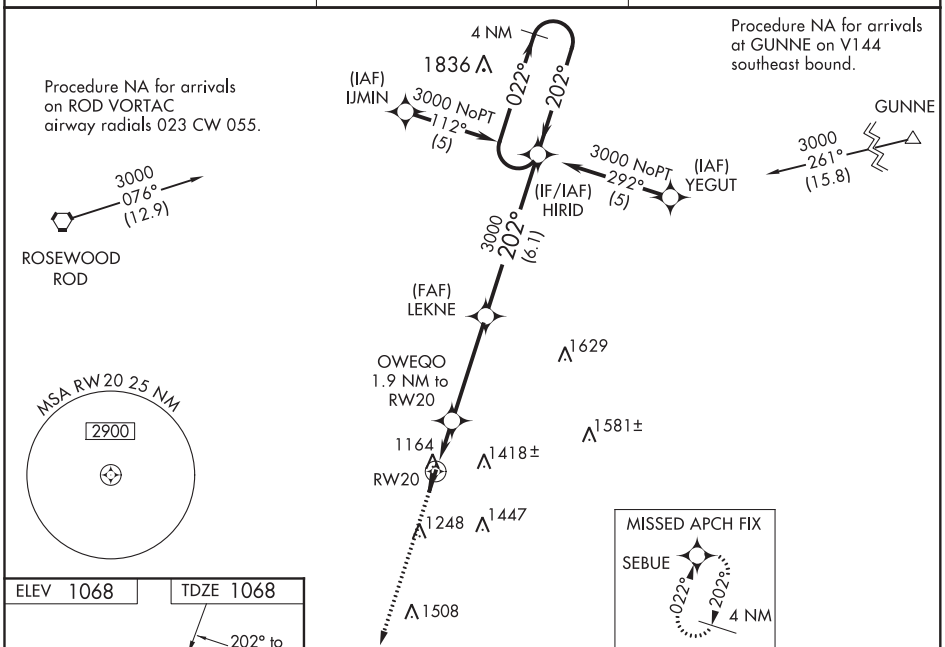
RNAV (GPS) RWY 20
GRIMES FIELD (I74)

RNP APCH.

Baro-VNAV NA when using Springfield altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). Rwy 20 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Springfield altimeter setting and increase all DAs 44 feet, all MDAs 60 feet, increase LPV all Cats and LNAV Cat C visibility ¼ SM, and increase Circling Cat C visibility ¼ SM. VDP NA with Springfield altimeter setting. Circling NA to Rwys 1 and 19.

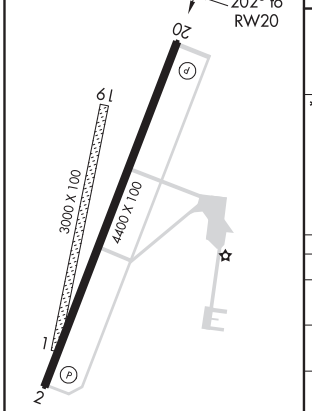
MISSED APPROACH: Climb to 4000 direct SEBUE and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 294.5	122.7 (CTAF) L

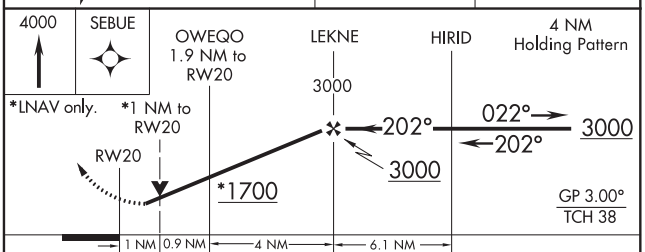


ELEV 1068 | TDZE 1068

202° to RW20



MIRL Rwy 2-20 L
REIL Rwys 2 and 20 L



CATEGORY	A	B	C	D
LPV DA	1347-1 279 (300-1)			NA
LNAV/VNAV DA	1469-1½ 401 (500-1½)			NA
LNAV MDA	1420-1 352 (400-1)			NA
C CIRCLING	1580-1 512 (600-1)	1780-1 712 (800-1)	1800-2 732 (800-2)	NA

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EC-2, 25 FEB 2021 to 22 APR 2021

VORTAC ROD	APP CRS	Rwy ldg	N/A
117.5	130°	TDZE	N/A
Chan 122		Apt Elev	1068

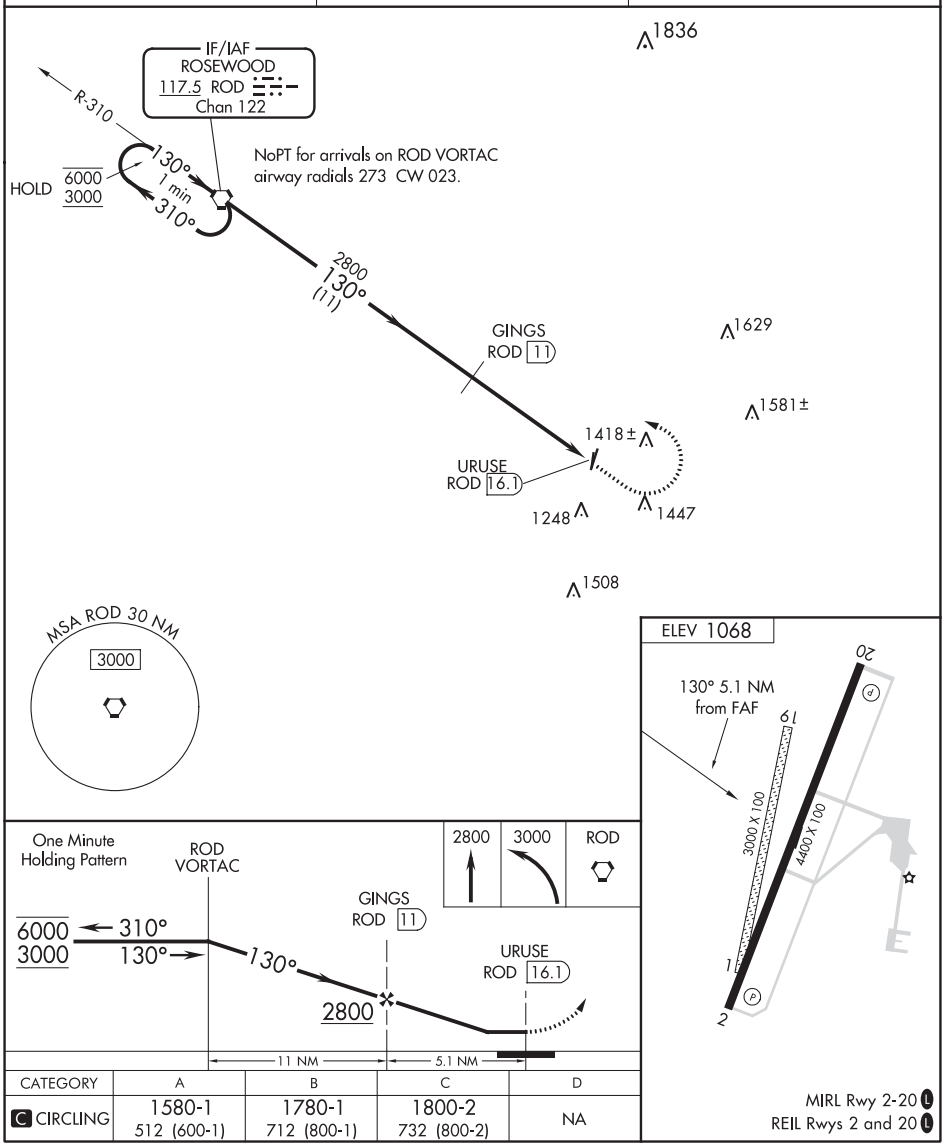
VOR-A
GRIMES FIELD (I74)

DME required.

Circling NA to Rwys 1 and 19. When local altimeter setting not received, use Springfield altimeter setting and increase all MDAs 60 feet and Cat C visibility ¼ SM.

MISSED APPROACH: Climb to 2800 then climbing left turn to 3000 direct ROD VORTAC and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.325	118.425 294.5	122.7 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1580-1 512 (600-1)	1780-1 712 (800-1)	1800-2 732 (800-2)	NA

MIRL Rwy 2-20 L
REIL Rwys 2 and 20 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VALPARAISO, INDIANA

AL-5460 (FAA)

20086

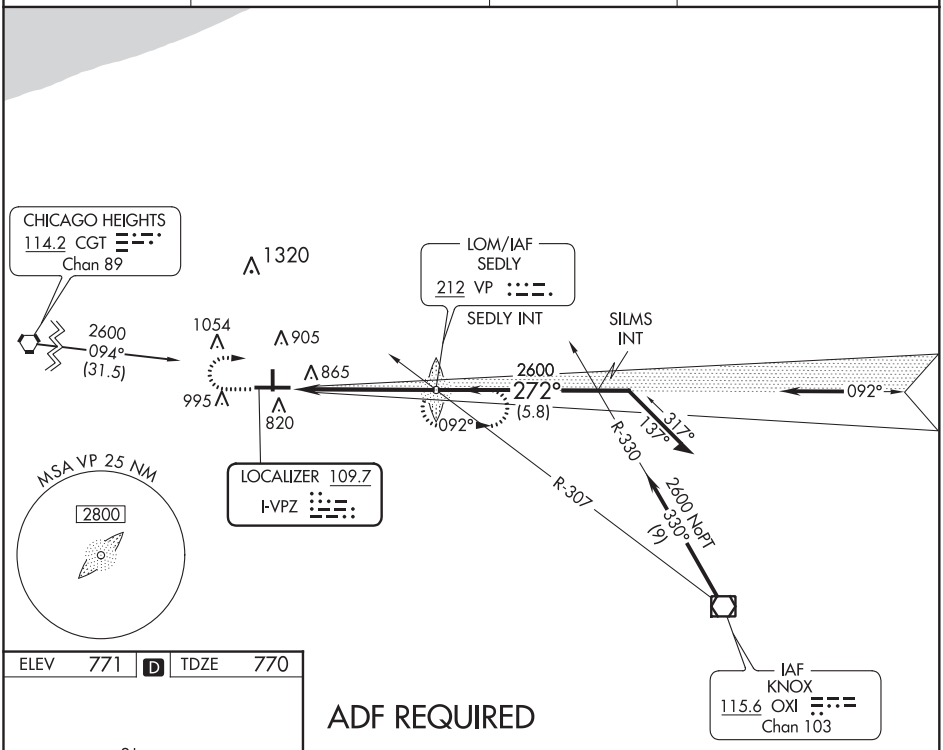
ILS RWY 27
PORTER COUNTY RGNL (VPZ)

LOC I-VPZ	APP CRS	Rwy ldg / TDZE / Apt Elev
109.7	272°	6500 / 770 / 771

MALSR

MISSED APPROACH: Climb to 1400, then climbing right turn to 2600 direct SEDLY LOM and hold.

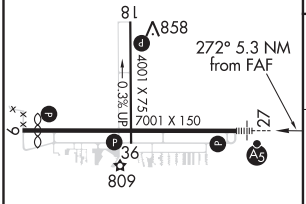
ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
125.875	132.05 257.8	120.525	122.725 (CTAF) L

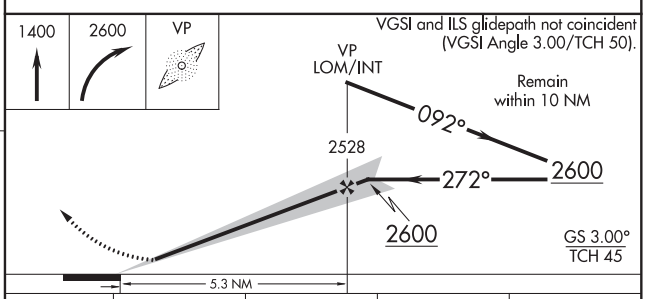


EC-2, 25 FEB 2021 to 22 APR 2021

ELEV	771	D	TDZE	770

ADF REQUIRED





HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9, 18 and 36 L

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

CATEGORY	A	B	C	D
S-ILS 27	970-½ 200 (200-½)			
S-LOC 27	1120-½ 350 (400-½)			1120-¾ 350 (400-¾)
CIRCLING	1260-1 489 (500-1)	1300-1 529 (600-1)	1300-1½ 529 (600-1½)	1360-2 589 (600-2)

WAAS CH 42606 W09A	APP CRS 092°	Rwy ldg 6500 TDZE 769 Apt Elev 770

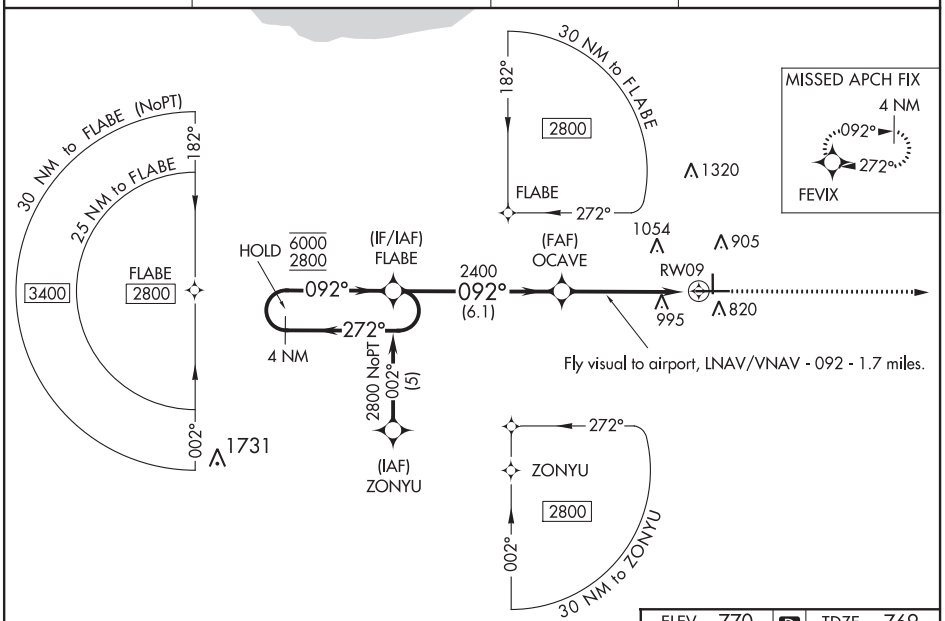
RNAV (GPS) RWY 9
PORTER COUNTY RGNL (VPZ)

RNP APCH.

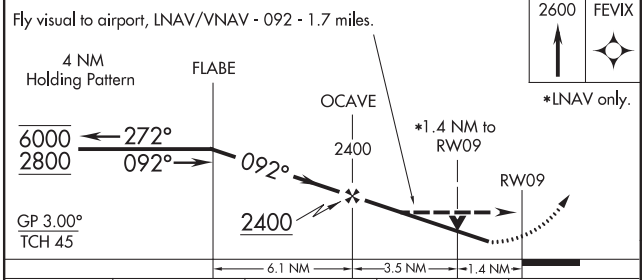
Rwy 9 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C.

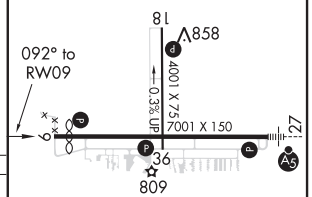
MISSED APPROACH: Climb to 2600 direct FEVIX and hold.

ASOS	SOUTH BEND APP CON *	CLNC DEL	UNICOM
125.875	132.05 257.8	120.525	122.725 (CTAF) L



ELEV 770	D	TDZE 769





CATEGORY	A	B	C	D
LPV DA	1038-1 269 (300-1)			
LNAV/VNAV DA	1369-2 600 (600-2)			
LNAV MDA	1260-1 491 (500-1)		1260-1¼ 491 (500-1¼)	1260-1½ 491 (500-1½)
CIRCLING	1260-1 490 (500-1)	1300-1 530 (600-1)	1300-1½ 530 (600-1½)	1360-2 590 (600-2)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9, 18 and 36 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VALPARAISO, INDIANA

AL-5460 (FAA)

18312

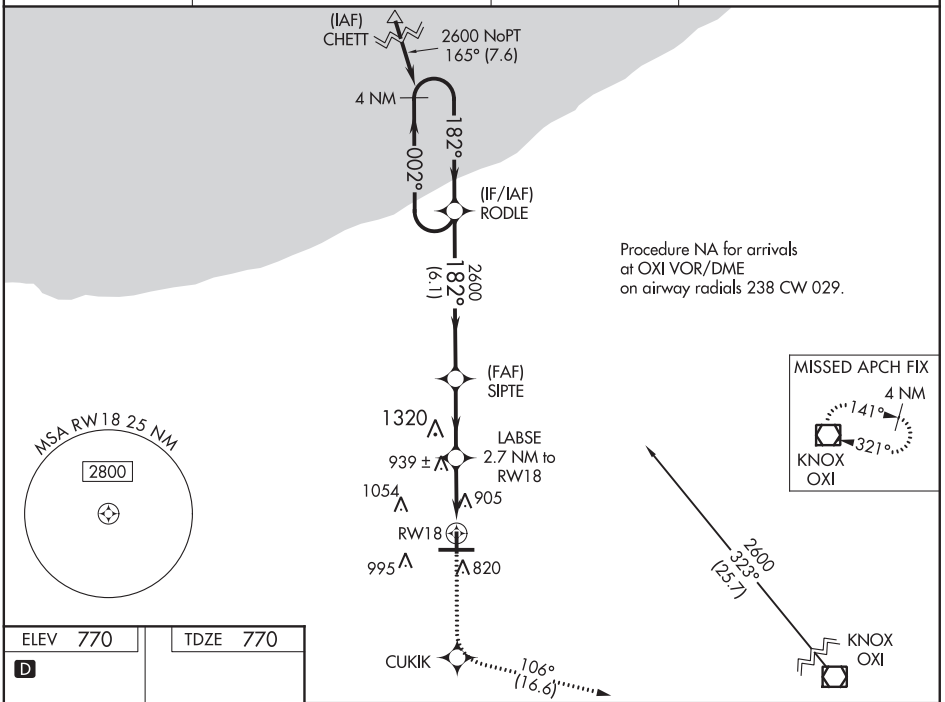
WAAS CH 82406 W18A	APP CRS 182°	Rwy ldg 4001 TDZE 770 Apt Elev 770

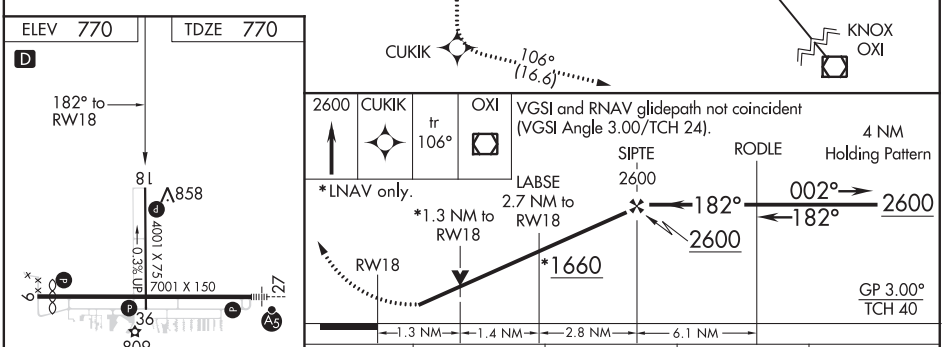
RNAV (GPS) RWY 18
PORTER COUNTY RGNL (VPZ)

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, use Lansing Muni altimeter setting and increase all DA 77 feet and all MDA 80 feet, and increase LPV and LNAV/VNAV all Cats visibility ¼ mile. Baro-VNAV and VDP NA when using Lansing Muni altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2600 direct CUKIK and on track 106° to OXI VOR/DME and hold.

ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
125.875	132.05 257.8	120.525	122.725 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1120-1¼ 350 (400-1¼)		NA	NA
LNAV/VNAV DA	1233-1¾ 463 (500-1¾)		NA	NA
LNAV MDA	1200-1 430 (500-1)		NA	NA
CIRCLING	1260-1 490 (500-1)	1300-1 530 (600-1)	NA	NA

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9, 18 and 36 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 86806 W27A	APP CRS 272°	Rwy ldg 6500 TDZE 770 Apt Elev 770

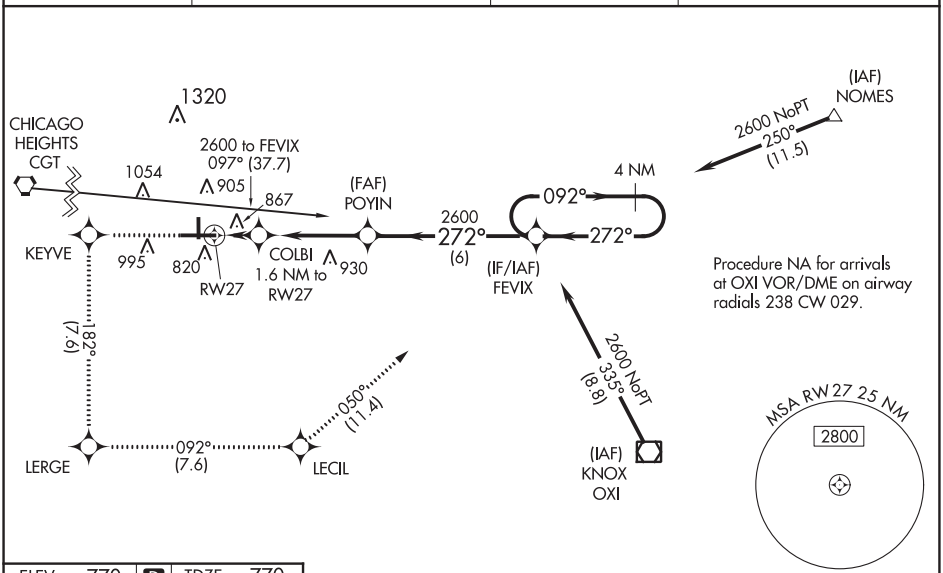
RNAV (GPS) RWY 27
PORTER COUNTY RGNL (VPZ)

Baro-VNAV NA when using Lansing Muni altimeter setting. For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lansing Muni altimeter setting and increase all DA 77 feet and all MDA 80 feet, and increase LPV and LNAV/VNAV all Cats, and Circling Cat C visibility ¼ mile. For inoperative MALSR, increase LNAV Cat D visibility to 1¼, when using Lansing Muni altimeter setting increase LPV all Cats visibility to 1¼ .

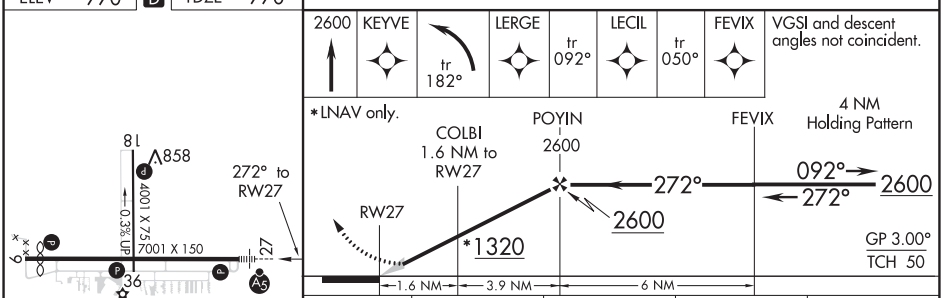
MALSR

MISSED APPROACH: Climb to 2600 direct KEYVE and on track 182° to LERGE and on track 092° to LECIL and on track 050° to FEVIX and hold.

ASOS	SOUTH BEND APP CON ★	CLNC DEL	UNICOM
125.875	132.05 257.8	120.525	122.725 (CTAF) L



ELEV 770	D	TDZE 770



CATEGORY	A	B	C	D
LPV DA	1020-½ 250 (300 -½)			
LNAV/VNAV DA	1201-1 431 (500 -1)			
LNAV MDA	1180-½ 410 (500 -½)		1180-¾ 410 (500-¾)	1180-1 410 (500-1)
CIRCLING	1260-1 490 (500-1)	1300-1 530 (600-1)	1300-1½ 530 (600-1½)	1360-2 590 (600-2)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9, 18 and 36 L

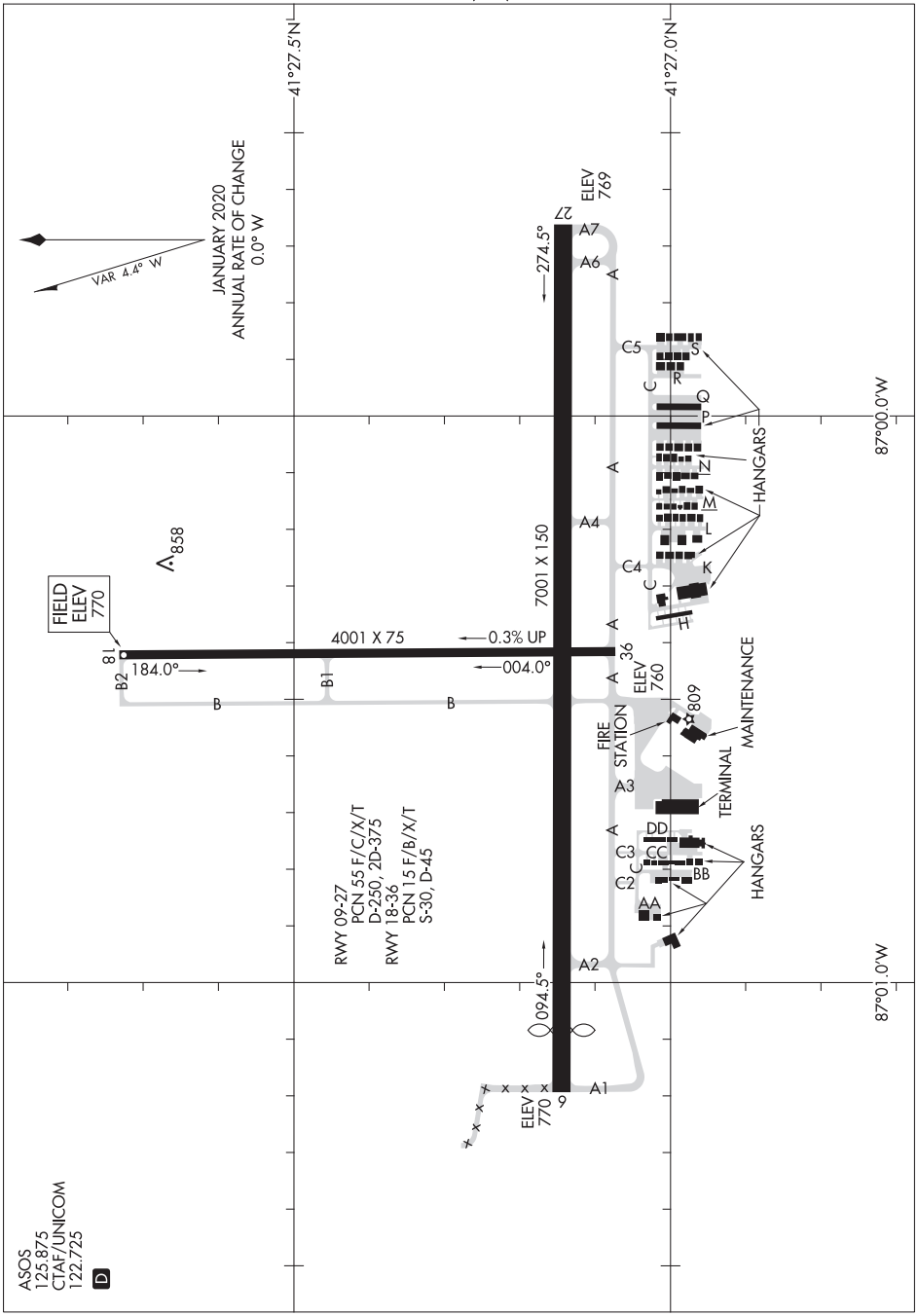
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

PORTER COUNTY RGNL (VPZ)
VALPARAISO, INDIANA

AL-5460 (FAA)



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
VALPARAISO, INDIANA
PORTER COUNTY RGNL (VPZ)

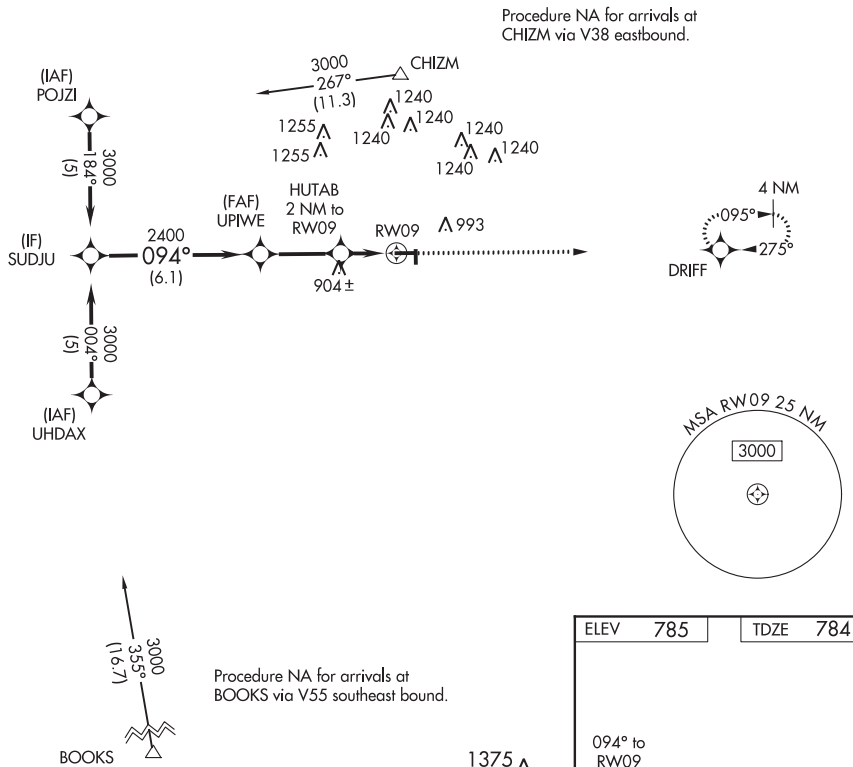
APP CRS	Rwy ldg	4000
094°	TDZE	784
	Apt Elev	785

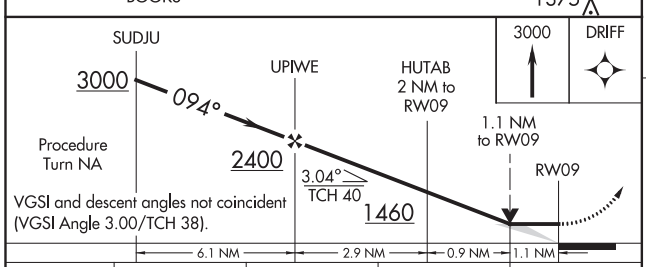
RNAV (GPS) RWY 9
VAN WERT COUNTY (VNW)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fort Wayne altimeter setting and increase all MDA 80 feet and increase LNAV Cat C and D visibility ¼ mile and Circling Cat C visibility ¼ mile. VDP NA when using Fort Wayne altimeter setting.

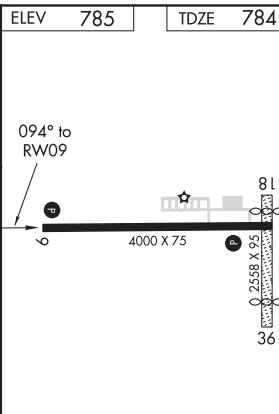
MISSED APPROACH: Climb to 3000 direct DRIFF and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
125.175	127.2 284.6	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1160-1 376 (400-1)			1160-1¼ 376 (400-1¼)
CIRCLING	1340-1 555 (600-1)		1340-1½ 555 (600-1½)	1340-2 555 (600-2)



MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

VAN WERT, OHIO | AL-6033 (FAA) | 19059

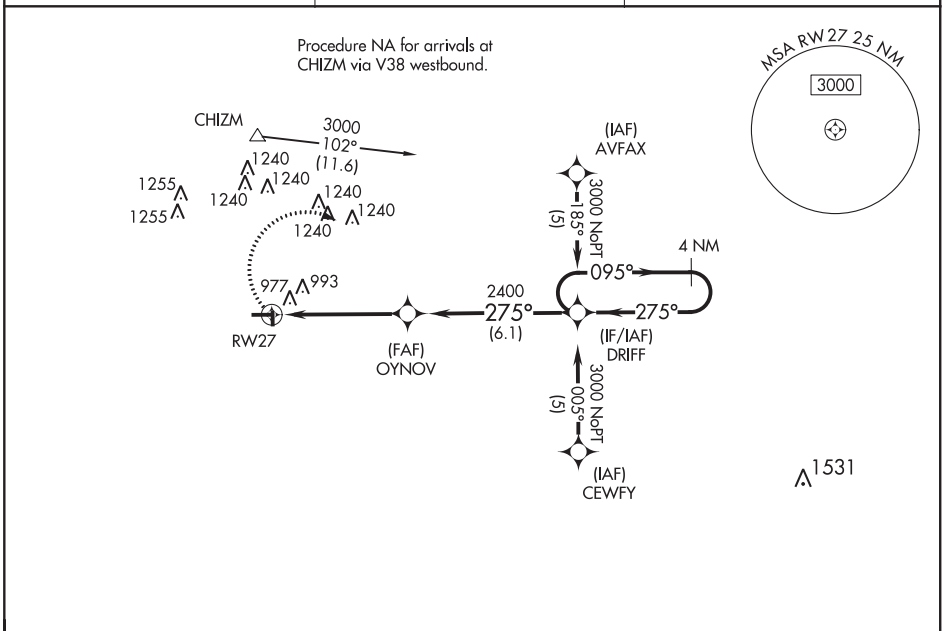
APP CRS	Rwy ldg	4000
275°	TDZE	785
	Apt Elev	785

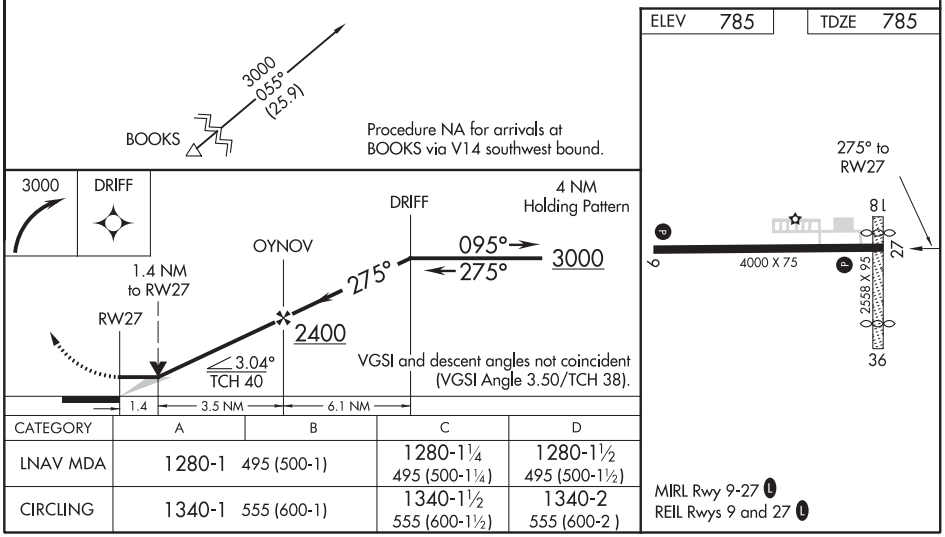
RNAV (GPS) RWY 27
VAN WERT COUNTY (VNW)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fort Wayne altimeter setting and increase all MDA 80 feet and increase LNAV Cat C and D visibility ¼ mile and Circling Cat C visibility ¼ mile. VDP NA when using Fort Wayne altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct DRIFF and hold.

AWOS-3	FORT WAYNE APP CON	UNICOM
125.175	127.2 284.6	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1280-1 495 (500-1)		1280-1¼ 495 (500-1¼)	1280-1½ 495 (500-1½)
CIRCLING	1340-1 555 (600-1)		1340-1½ 555 (600-1½)	1340-2 555 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021

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WAAS CH 77642 W09A	APP CRS 092°	Rwy ldg 4802 TDZE 1007 Apt Elev 1007

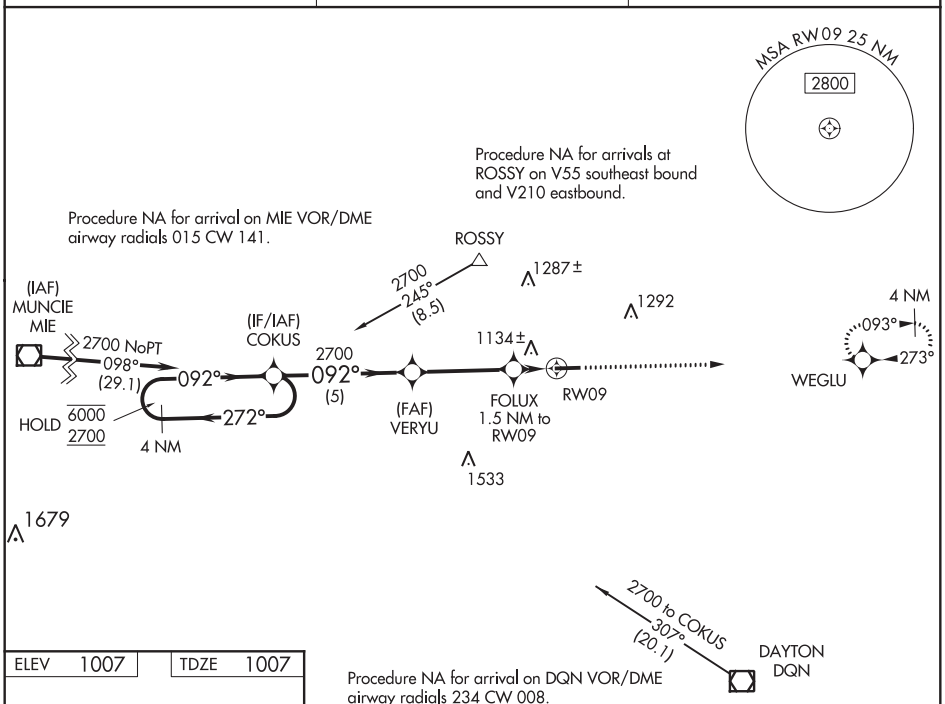
RNAV (GPS) RWY 9
DARKE COUNTY (VES)

RNP APCH.

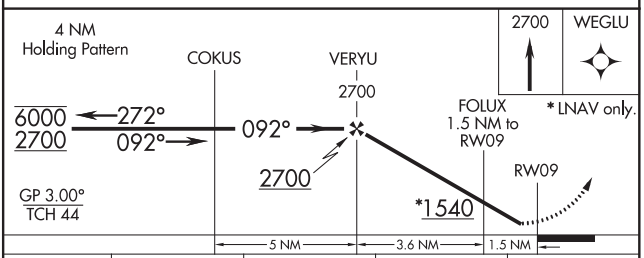
Circling Rwy 27 NA at night. Rwy 9 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16° C or above 54° C.

MISSED APPROACH: Climb to 2700 direct WEGLU and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
125.9	118.425 352.05	122.8 (CTAF) L



ELEV 1007	TDZE 1007



CATEGORY	A	B	C	D
LPV DA	1257-1 250 (300-1)			NA
LNAV/VNAV DA	1400-1⅛ 393 (400-1⅛)			NA
LNAV MDA	1400-1 393 (400-1)		1400-1⅛ 393 (400-1⅛)	NA
C CIRCLING	1440-1 433 (500-1)	1480-1 473 (500-1)	1660-1¾ 653 (700-1¾)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

VERSAILLES, OHIO | AL-6038 (FAA) | 20366

WAAS CH 86243 W27A	APP CRS 273°	Rwy ldg 4802 TDZE 1007 Apt Elev 1007

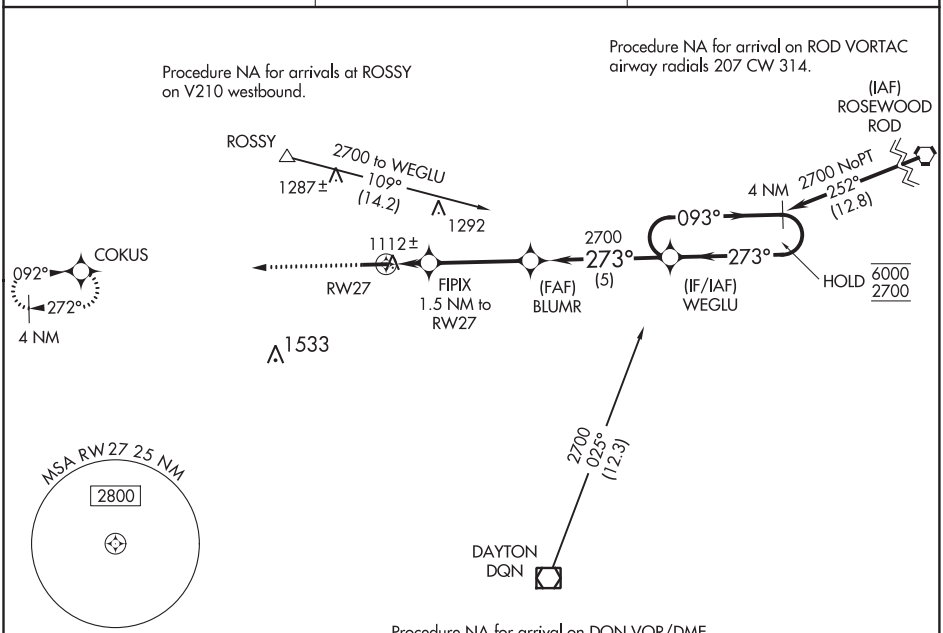
RNAV (GPS) RWY 27
DARKE COUNTY (VES)

RNP APCH.

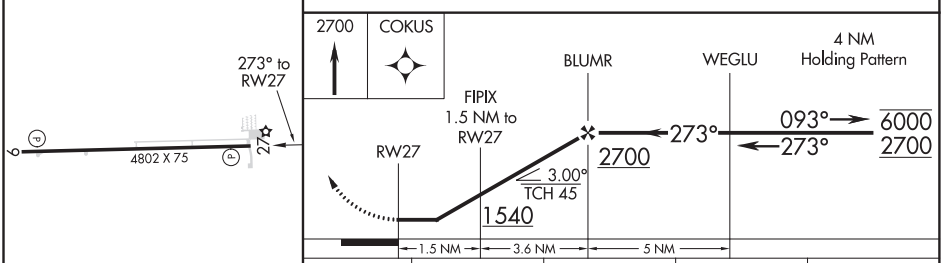
Rwy 27 helicopter visibility reduction below 1 SM NA.
Straight-in Rwy 27 NA at night, Circling Rwy 27 NA at night.

MISSED APPROACH: Climb to 2700 direct COKUS and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM
125.9	118.425 352.05	122.8 (CTAF) L



ELEV 1007	TDZE 1007



CATEGORY	A	B	C	D
LP MDA	1380-1 373 (400-1)			NA
LNAV MDA	1380-1 373 (400-1)			NA
C CIRCLING	1440-1 433 (500-1)	1480-1 473 (500-1)	1660-1¾ 653 (700-1¾)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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APP CRS	Rwy ldg	4401
092°	TDZE	796
	Apt Elev	796

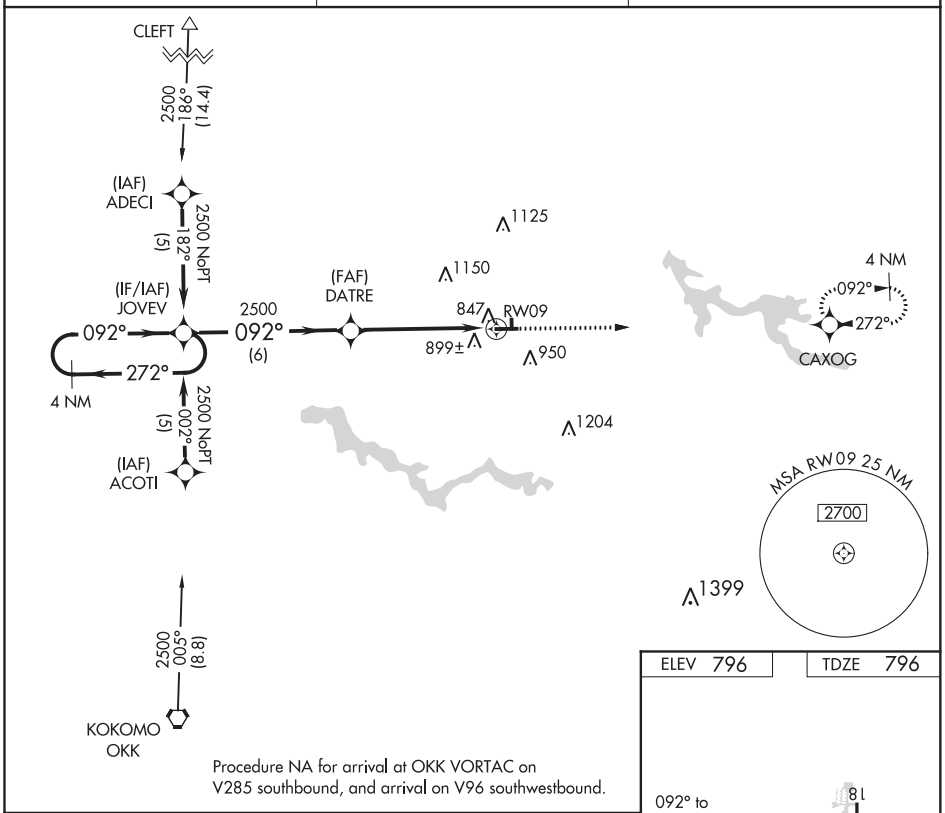
RNAV (GPS) RWY 9
WABASH MUNI (IWH)

T NA

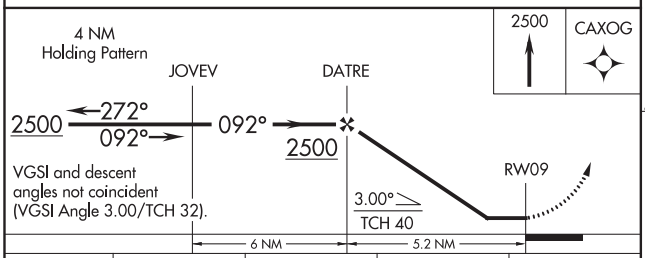
DME/DME RNP-0.3 NA. Night landing: Rwy 18, 36 NA. Helicopter visibility reduction below 1 SM NA. Use Kokomo altimeter setting; when not received, use Marion altimeter setting.

MISSED APPROACH: Climb to 2500 direct CAXOG WP and hold.

OKK AWOS-3PT	GRISSOM APP CON *	UNICOM
113.5	121.05 338.275	122.8 (CTAF) L

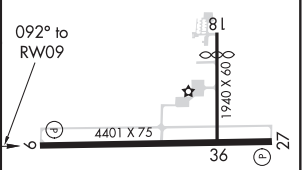


Procedure NA for arrival at OKK VORTAC on V285 southbound, and arrival on V96 southwestbound.



CATEGORY	A	B	C	D
LNAV MDA	1220-1 424 (500-1)		1220-1¼ 424 (500-1¼)	NA
C CIRCLING	1300-1 504 (600-1)	1440-1 644 (700-1)	1560-2¼ 764 (800-2¼)	NA

ELEV 796	TDZE 796



LIRL Rwy 18-36
MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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WABASH, INDIANA | AL-5602 (FAA) | 19283

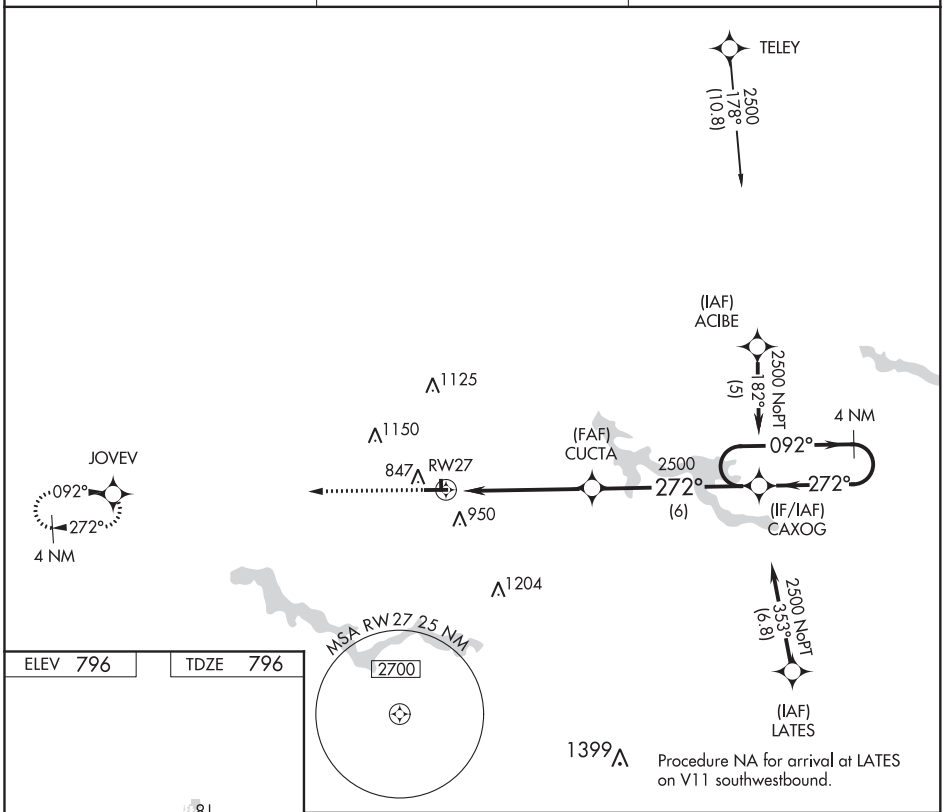
RNAV (GPS) RWY 27
WABASH MUNI (IWH)

APP CRS	Rwy ldg	4401
272°	TDZE	796
	Apt Elev	796

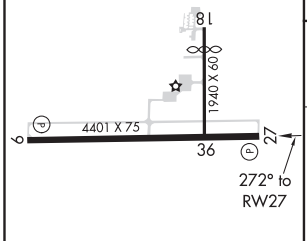
NA — DME/DME RNP-0.3 NA. Night landing: Rwys 18, 36 NA. Helicopter visibility reduction below ¾ SM NA. Use Kokomo altimeter setting; when not received, use Marion altimeter setting.

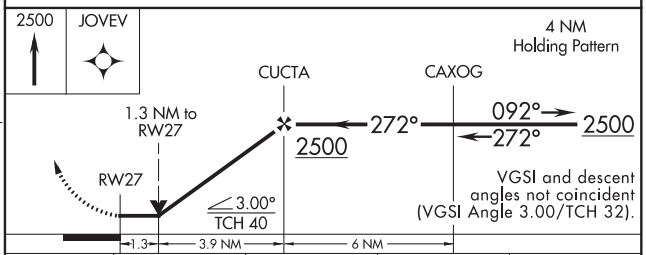
MISSED APPROACH: Climb to 2500 direct JOVEV WP and hold.

OKK AWOS-3PT	GRISSOM APP CON *	UNICOM
113.5	121.05 338.275	122.8 (CTAF) L



ELEV 796 | TDZE 796





CATEGORY	A	B	C	D
LNAV MDA	1280-1 484 (500-1)		1280-1⅜ 484 (500-1⅜)	NA
C CIRCLING	1300-1 504 (600-1)	1440-1 644 (700-1)	1560-2¼ 764 (800-2¼)	NA

LIRL Rwy 18-36
MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

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VORTAC OKK	APP CRS	Rwy ldg	N/A
113.5	045°	TDZE	N/A
Chan 82		Apt Elev	796

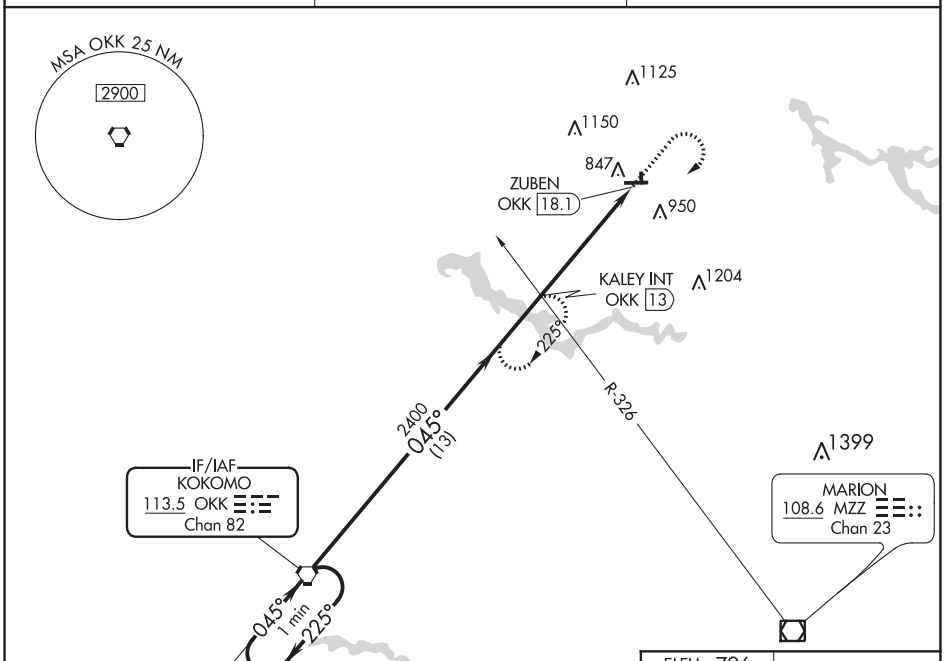
VOR-A
WABASH MUNI (IWH)

NA

Night landing: Rwy 18, 36 NA. Rwy 18, 36 helicopter visibility reduction below 1 SM NA. Use Kokomo altimeter setting; when not received, use Marion altimeter setting.

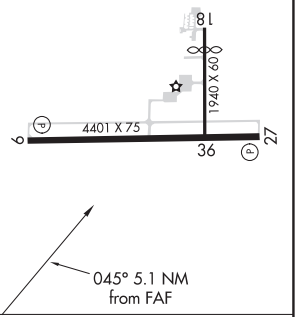
MISSED APPROACH: Climb to 2400 then right turn on OKK VORTAC R-045 to KALEY INT/OKK 13 DME and hold.

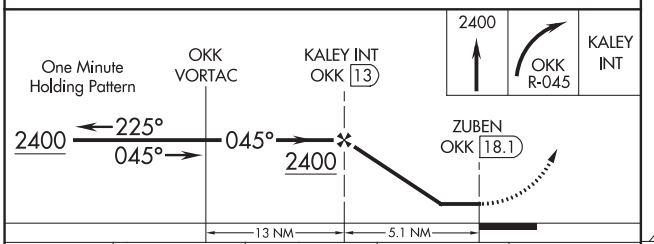
OKK AWOS-3PT	GRISSOM APP CON *	UNICOM
113.5	121.05 338.275	122.8 (CTAF) L



ELEV 796

LIRL Rwy 18-36
MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L





CATEGORY	A	B	C	D
C CIRCLING	1320-1 524 (600-1)	1440-1 644 (700-1)	1560-2¼ 764 (800-2¼)	NA

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

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EC-2, 25 FEB 2021 to 22 APR 2021

WADSWORTH, OHIO | AL-6804 (FAA) | 20366

APP CRS	Rwy ldg	3400
018°	TDZE	972
	Apt Elev	974

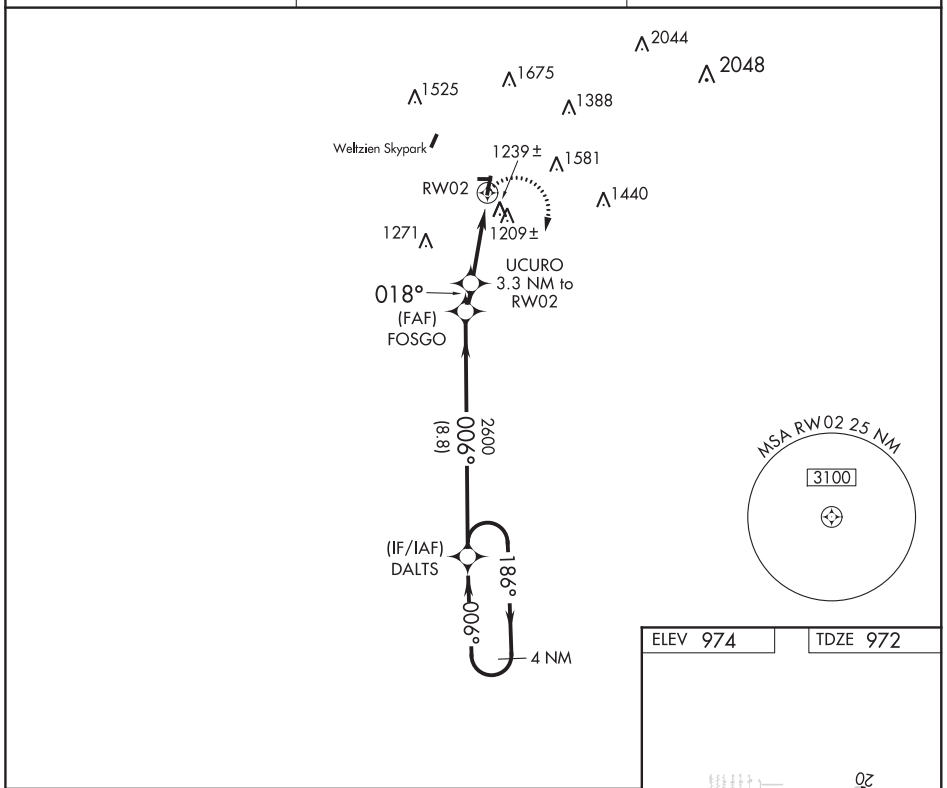
RNAV (GPS) RWY 2
WADSWORTH MUNI (3G3)

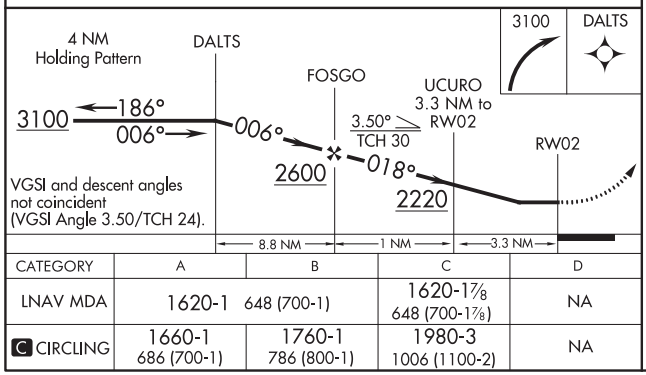
RNP APCH.

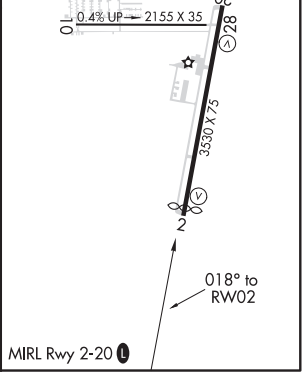
T A NA Rwy 2 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Circling NA west of Rwy 2-20. Use Wooster altimeter setting, when not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 40 feet and LNAV visibility Cat C ⅛ SM, Circling Cat B ¼ SM.

MISSED APPROACH: Climbing right turn to 3100 direct DALTS and hold.

BJJ ASOS	CLEVELAND APP CON ★	UNICOM
118.075	118.6 371.875	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1620-1 648 (700-1)		1620-1⅞ 648 (700-1⅞)	NA
C CIRCLING	1660-1 686 (700-1)	1760-1 786 (800-1)	1980-3 1006 (1100-2)	NA

WADSWORTH, OHIO
Amdt 2A 03DEC20

41°00′N-81°45′W

WADSWORTH MUNI (3G3)
RNAV (GPS) RWY 2

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APP CRS	Rwy ldg	3530
198°	TDZE	974
	Apt Elev	974

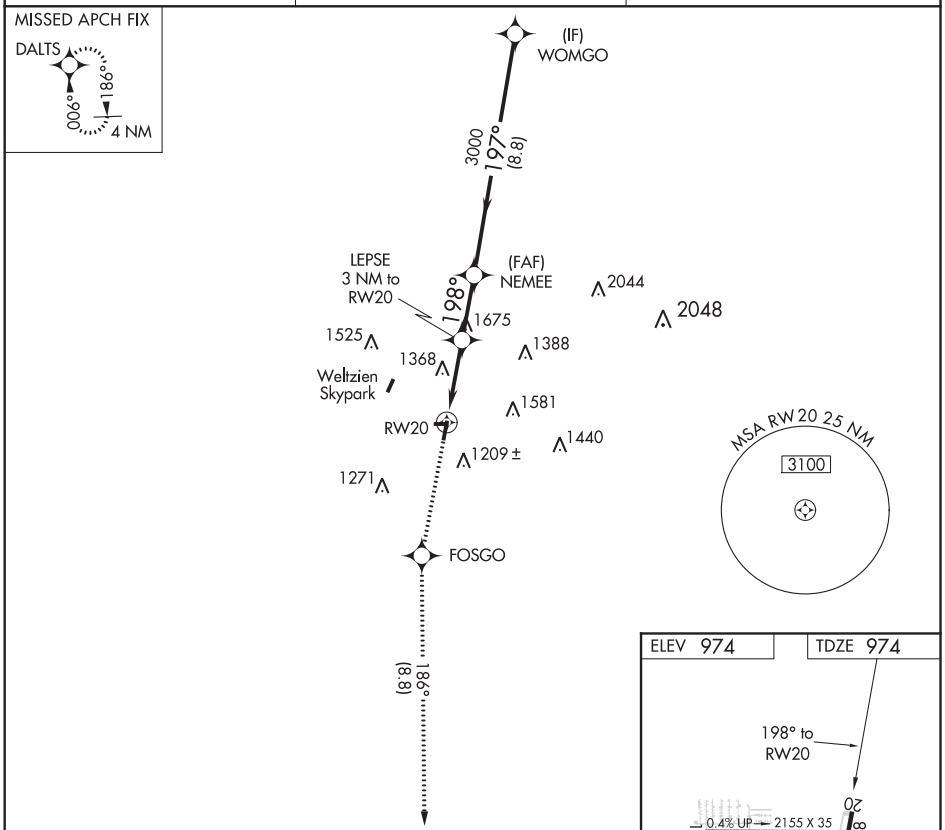
RNAV (GPS) RWY 20
WADSWORTH MUNI (3G3)

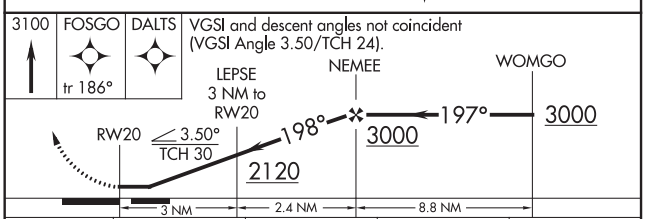
RNP APCH.

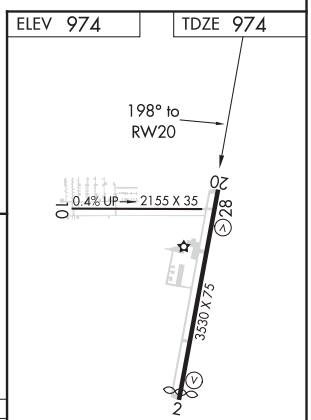
NA Rwy 20 helicopter visibility reduction below 1 SM NA. Procedure NA at night. Circling NA west of Rwy 2-20. Use Wooster altimeter setting, when not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 40 feet and LNAV visibility Cat C ½ SM.

MISSED APPROACH: Climb to 3100 direct FOSGO and on track 186° to DALTS and hold.

BJJ ASOS	CLEVELAND APP CON ★	UNICOM
118.075	118.6 371.875	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1720-1 746 (800-1)	1720-1¼ 746 (800-1¼)	1720-2 746 (800-2)	NA
C CIRCLING	1720-1 746 (800-1)	1760-1¼ 786 (800-1¼)	1980-3 1006 (1100-3)	NA

MIRL Rwy 2-20 L

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WAPAKONETA, OHIO | AL-6065 (FAA) | 21056

APP CRS	Rwy ldg	4800
081°	TDZE	913
	Apt Elev	913

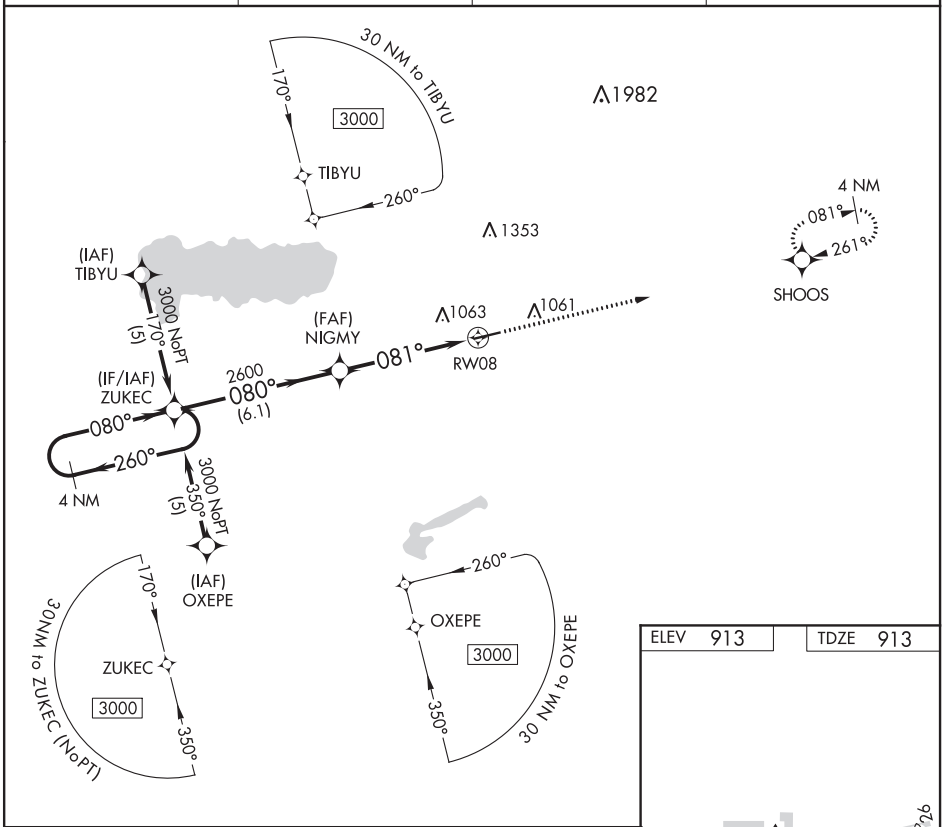
RNAV (GPS) RWY 8
NEIL ARMSTRONG (AXV)

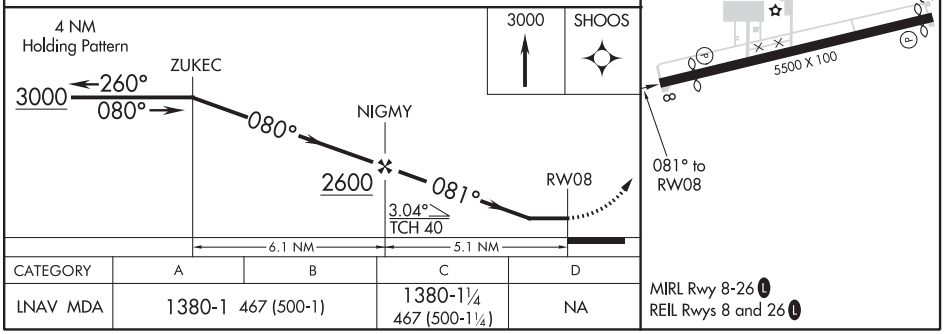
RNP APCH.

T A NA Rwy 8 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Lima altimeter setting and increase all MDA 60 feet, increase LNAV Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct SHOOS and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM	
128.325	118.425 294.5	122.8 (CTAF)	122.7 L





CATEGORY	A	B	C	D
LNAV MDA	1380-1 467 (500-1)		1380-1¼ 467 (500-1¼)	NA

MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L

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EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 72907 W26A	APP CRS 261°	Rwy ldg 5263 TDZE 910 Apt Elev 913

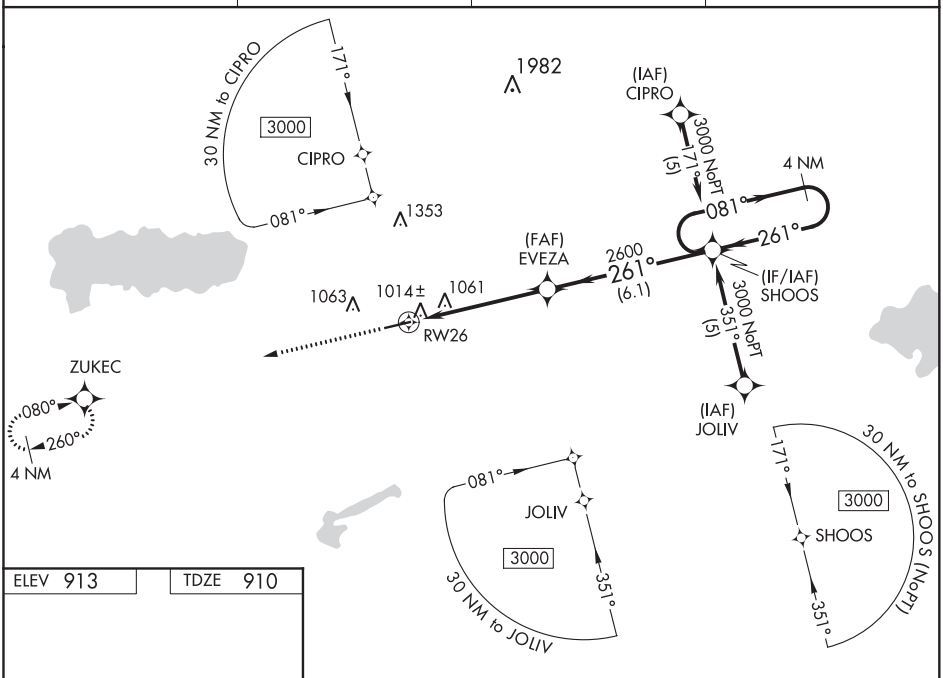
RNAV (GPS) RWY 26
NEIL ARMSTRONG (AXV)

RNP APCH.

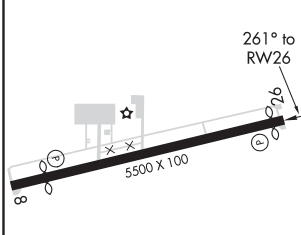
NA Baro-VNAV NA when using Lima altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Rwy 26 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Lima altimeter setting and increase LPV DA to 1291, LNAV/VNAV DA to 1324, and all MDA 60 feet, increase LNAV/VNAV visibility all Cats ¼ mile. VDP NA when using Lima altimeter setting.

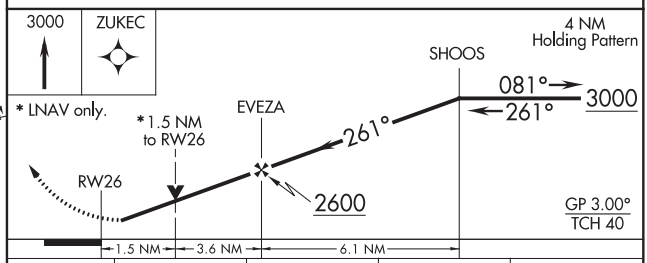
MISSED APPROACH: Climb to 3000 direct ZUKEC and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM	
128.325	118.425 294.5	122.8 (CTAF)	122.7 L



ELEV 913 TDZE 910





CATEGORY	A	B	C	D
LPV DA	1241-1¼ 331 (400-1¼)			NA
LNAV/VNAV DA	1274-1¼ 364 (400-1¼)			NA
LNAV MDA	1440-1 530 (600-1)		1440-1½ 530 (600-1½)	NA

MIRL Rwy 8-26 L
REIL Rwys 8 and 26 L

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WAPAKONETA, OHIO AL-6065 (FAA) 21056

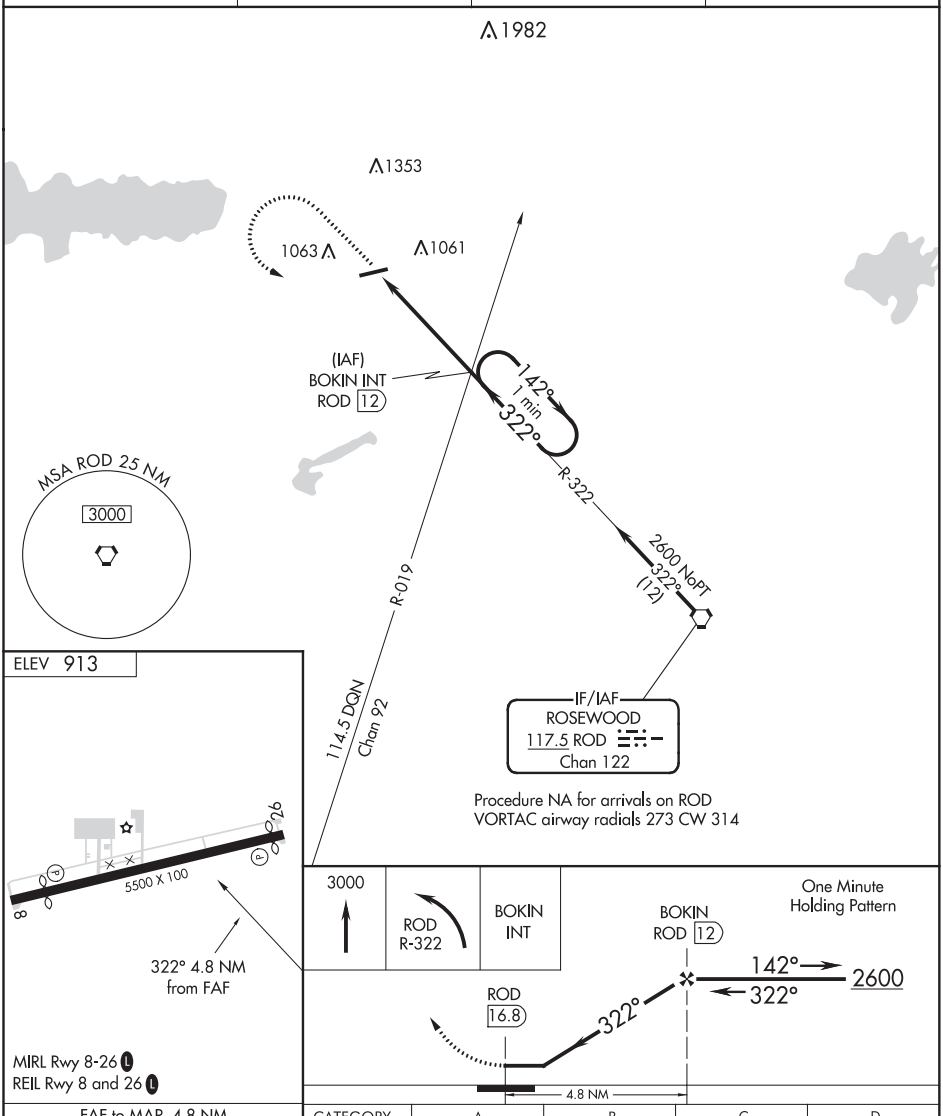
VOR-A
NEIL ARMSTRONG (AXV)

VORTAC ROD	APP CRS	Rwy ldg	N/A
117.5	322°	TDZE	N/A
Chan 122		Apt Elev	913

When local altimeter setting not received, use Lima altimeter setting and increase all MDA 60 feet. Night landing: Rwy 8 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3000 then left turn on ROD VORTAC R-322 to BOKIN INT/ ROD 12 DME and hold.

AWOS-3PT	COLUMBUS APP CON	UNICOM	
128.325	118.425 294.5	122.8 (CTAF)	122.7 L



FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

CATEGORY	A	B	C	D
CIRCLING	1500-1 587 (600-1)		1500-1½ 587 (600-1½)	NA

WAPAKONETA, OHIO
Amdt 8A 20AUG15

40°30′N-84°18′W

NEIL ARMSTRONG (AXV)
VOR-A

EC-2, 25 FEB 2021 to 22 APR 2021

ILS or LOC/DME RWY 27
WARSAW MUNI (ASW)

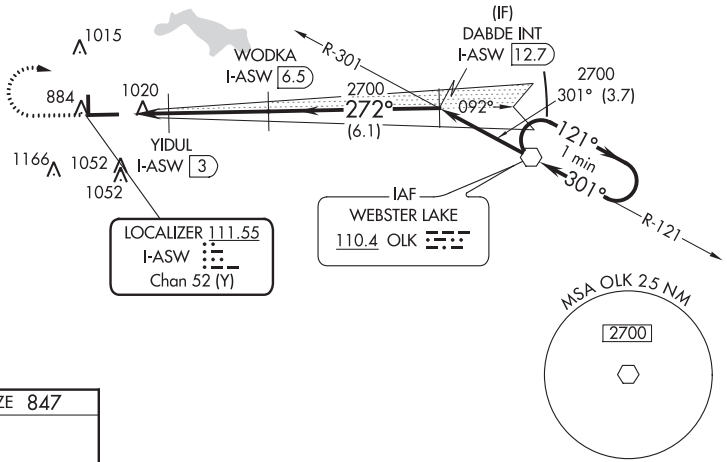
LOC/DME I-ASW	APP CRS	Rwy ldg	5100
111.55	272°	TDZE	847
Chan 52 (Y)		Apt Elev	850

When local altimeter setting not received, use Goshen altimeter setting and increase all DA/MDA 40 feet.
Circling to Rwy 36 NA at night. VDP NA with Goshen altimeter setting.
When VGSI inoperative, Circling Rwy 18 NA at night.

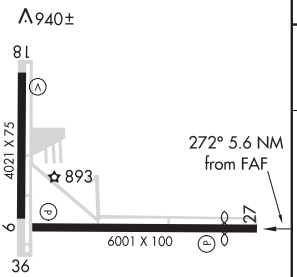
NA

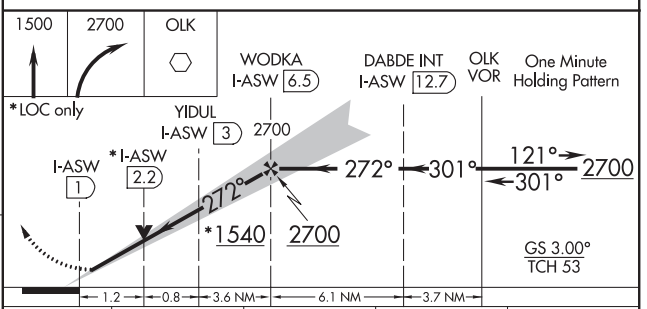
MISSED APPROACH: Climb to 1500 then climbing right turn to 2700 direct OLK VOR and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
121.125	127.2 284.6	134.05	122.7 (CTAF) L



ELEV 850 D TDZE 847





CATEGORY	A	B	C	D
S-ILS 27	1047-¾ 200 (200-¾)			
S-LOC 27	1280-1 433 (500-1)		1280-1¼ 433 (500-1¼)	1280-1½ 433 (500-1½)
CIRCLING	1320-1 470 (500-1)		1320-1½ 470 (500-1½)	1400-2 550 (600-2)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L

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WARSAW, INDIANA

AL-5282 (FAA)

19339

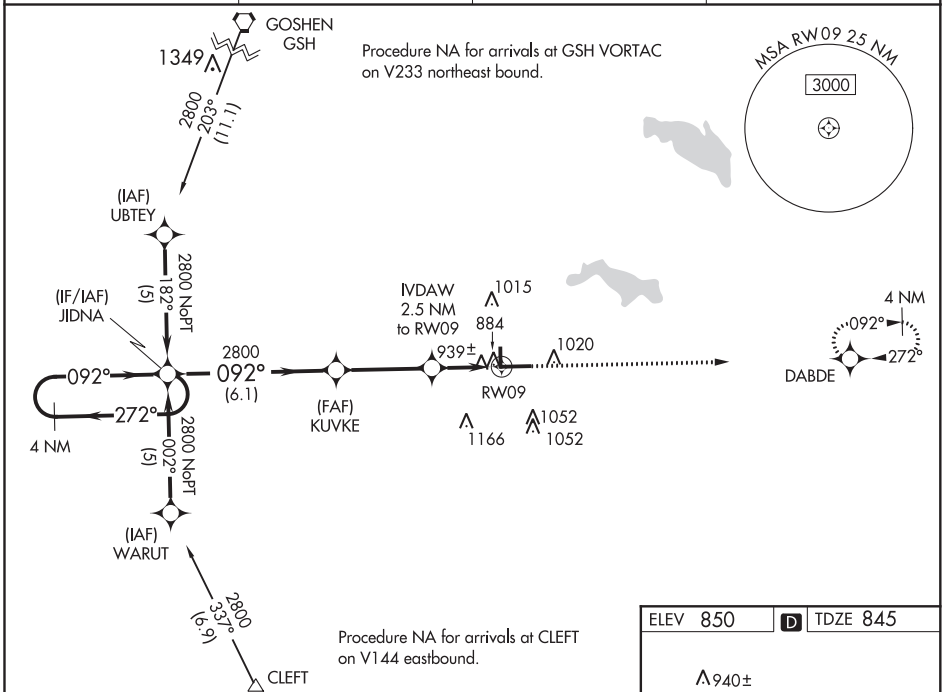
RNAV (GPS) RWY 9
WARSAW MUNI (ASW)

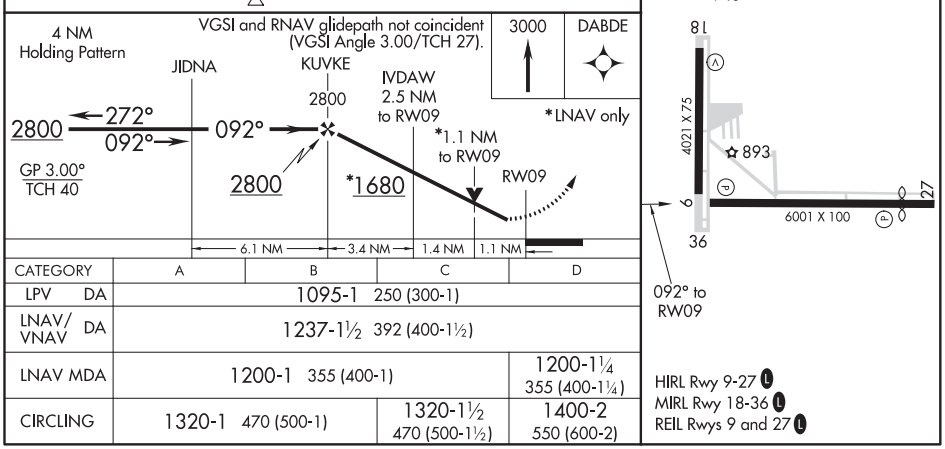
WAAS CH 97719 W09A	APP CRS 092°	Rwy ldg 5100 TDZE 845 Apt Elev 850

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Circling to Rwy 36 NA at night. Baro-VNAV and VDP NA when using Goshen altimeter setting. When local altimeter setting not received, use Goshen altimeter setting and increase all DA/MDA 40 feet. When VGSI inoperative, Circling Rwy 18 NA at night.

MISSED APPROACH: Climb to 3000 direct DABDE and hold.

AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
121.125	127.2 284.6	134.05	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1095-1 250 (300-1)			
LNAV/VNAV DA	1237-1½ 392 (400-1½)			
LNAV MDA	1200-1 355 (400-1)			1200-1¼ 355 (400-1¼)
CIRCLING	1320-1 470 (500-1)		1320-1½ 470 (500-1½)	1400-2 550 (600-2)

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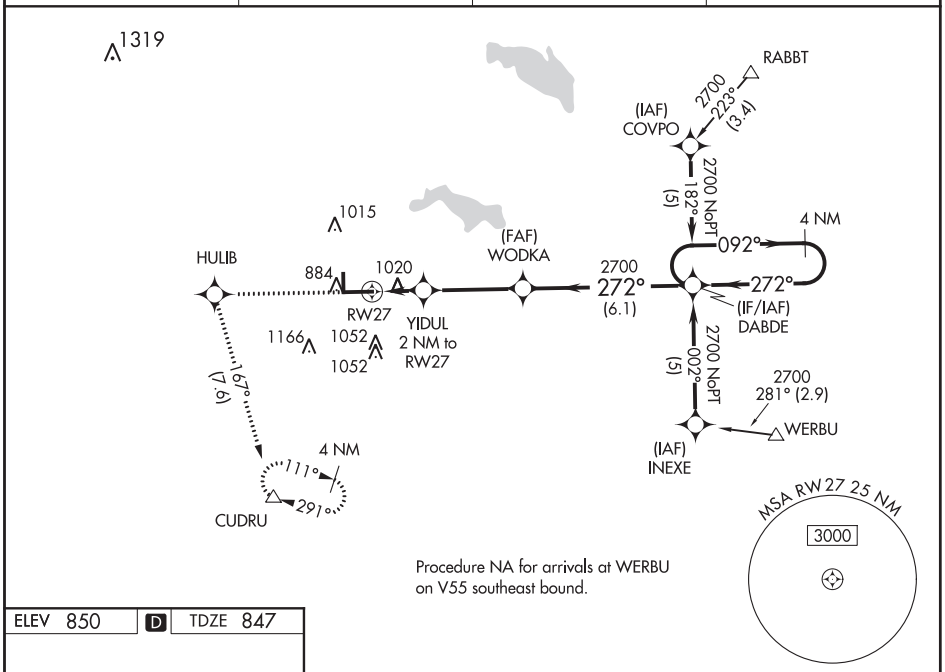
WAAS CH 53519 W27A	APP CRS 272°	Rwy ldg 5100 TDZE 847 Apt Elev 850

RNAV (GPS) RWY 27
WARSAW MUNI (ASW)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Goshen altimeter setting and increase all DA/MDA 40 feet. Circling to Rwy 36 NA at night. When VGSI inoperative, Circling Rwy 18 NA at night. Baro-VNAV and VDP NA when using Goshen altimeter setting.

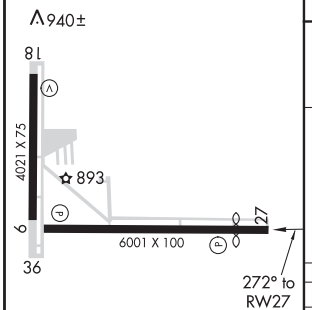
MISSED APPROACH: Climb to 3000 direct HULIB and left turn on track 167° to CUDRU and hold.

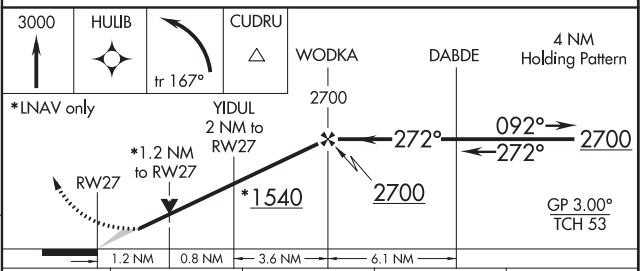
AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
121.125	127.2 284.6	134.05	122.7 (CTAF) L



Procedure NA for arrivals at WERBU on V55 southeast bound.

ELEV 850 D TDZE 847





CATEGORY	A	B	C	D
LPV DA	1122-1 275 (300-1)			
LNAV/VNAV DA	1334-1¾ 487 (500-1¾)			
LNAV MDA	1280-1 433 (500-1)		1280-1¼ 433 (500-1¼)	1280-1½ 433 (500-1½)
CIRCLING	1320-1 470 (500-1)		1320-1½ 470 (500-1½)	1400-2 550 (600-2)

HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L

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WARSAW, INDIANA

AL-5282 (FAA)

20086

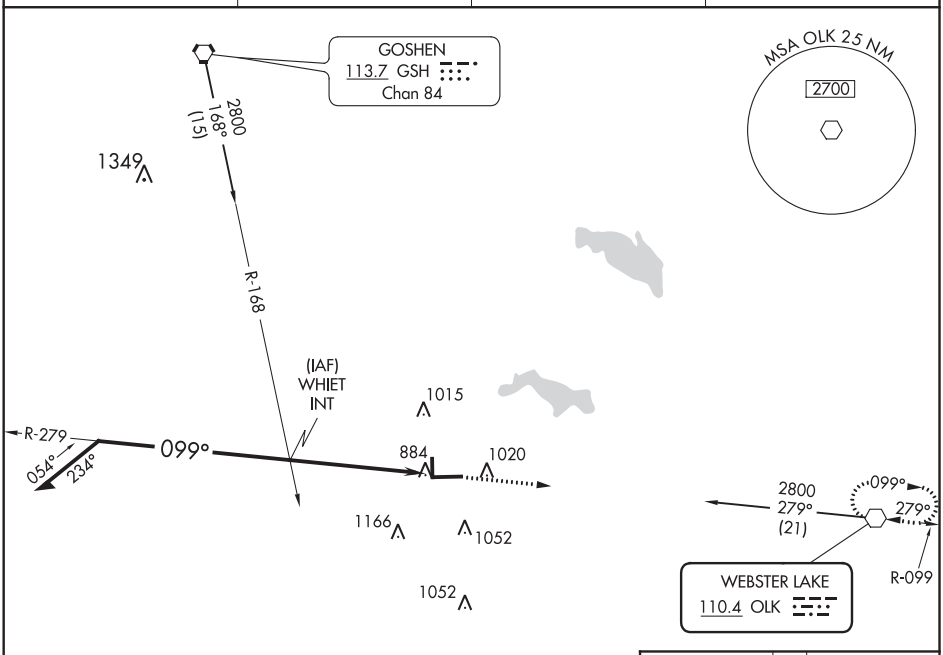
VOR RWY 9
WARSAW MUNI (ASW)

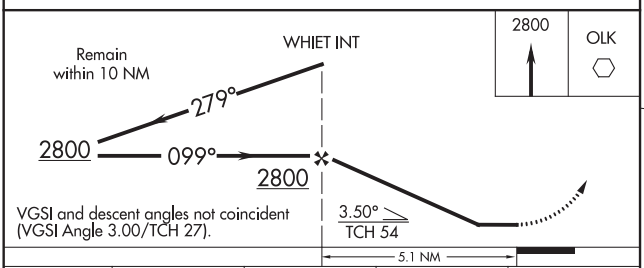
VOR OLK	APP CRS	Rwy ldg	5100
110.4	099°	TDZE	845
		Apt Elev	850

Visibility reduction by helicopters NA. When local altimeter setting not received, use Goshen altimeter setting and increase all MDA 40 feet. Circling to Rwy 36 NA at night. When VGSI inoperative, Circling Rwy 18 NA at night.

MISSED APPROACH: Climb to 2800 direct OLK VOR and hold.

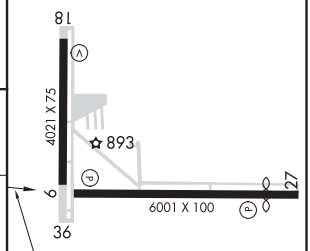
AWOS-3	FORT WAYNE APP CON	CLNC DEL	UNICOM
121.125	127.2 284.6	134.05	122.7 (CTAF) L





CATEGORY	A	B	C	D
S-9	1380-1 535 (600-1)		1380-1½ 535 (600-1½)	1380-1¾ 535 (600-1¾)
CIRCLING	1380-1 530 (600-1)		1380-1½ 530 (600-1½)	1400-2 550 (600-2)

ELEV 850 D TDZE 845



HIRL Rwy 9-27 L
MIRL Rwy 18-36 L
REIL Rwys 9 and 27 L

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

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WAAS CH 86436 W18A	APP CRS 183°	Rwy ldg 4309 TDZE 468 Apt Elev 472

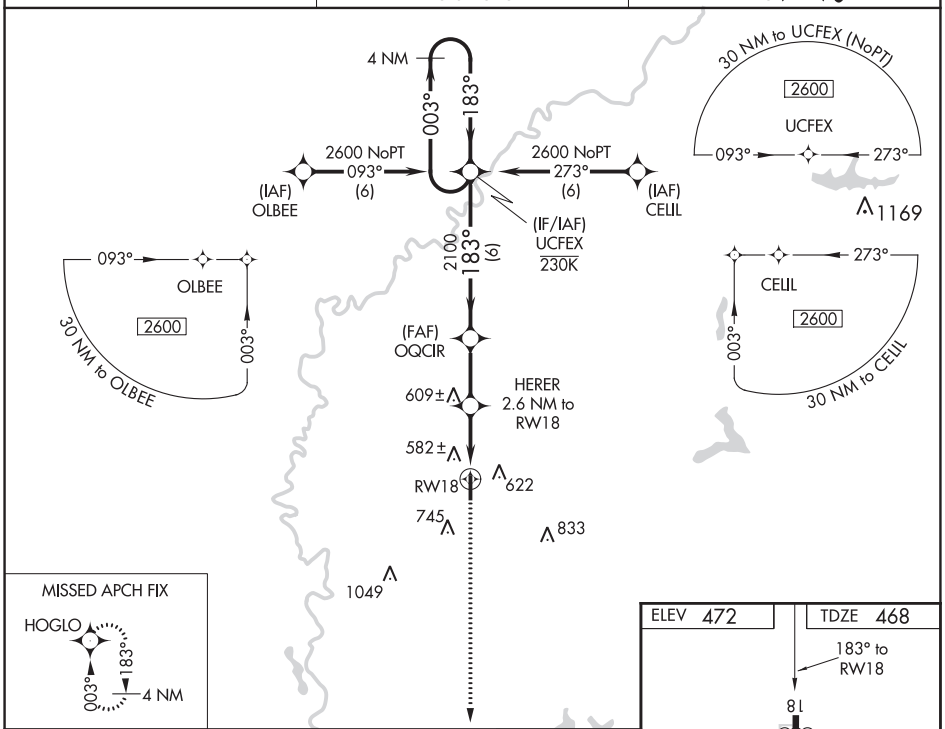
RNAV (GPS) RWY 18
DAVIESS COUNTY (DCY)

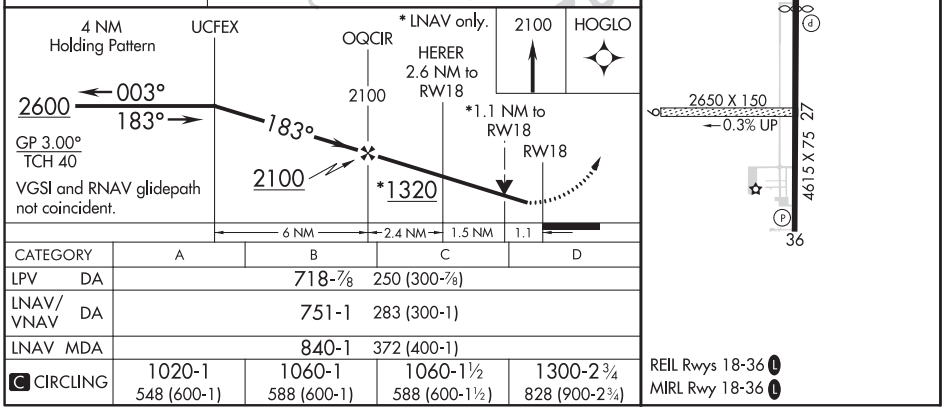
RNP APCH.

Night landing: Rwy 36 NA. Baro-VNAV NA when using Lawrenceville-Vincennes Intl altimeter setting. For uncompensated Baro-VNAV systems, procedure NA below -15°C (5°F) or above 54°C (130°F). When local altimeter setting not received, use Lawrenceville-Vincennes Intl altimeter setting and increase all DA 58 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats visibility ⅛ mile and LNAV and Circling Cats C, D visibility ¼ mile. VDP NA with Lawrenceville-Vincennes Intl altimeter setting. Helicopter visibility reduction below ¾ SM NA. Circling NA to Rwys 9 and 27.

MISSED APPROACH: Climb to 2100 direct HOGLO and hold.

AWOS-3PT	EVANSVILLE APP CON *	UNICOM
124.1	125.6 343.7	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	718-⅞ 250 (300-⅞)			
LNAV/VNAV DA	751-1 283 (300-1)			
LNAV MDA	840-1 372 (400-1)			
C CIRCLING	1020-1 548 (600-1)	1060-1 588 (600-1)	1060-1½ 588 (600-1½)	1300-2¾ 828 (900-2¾)

REIL Rwys 18-36 L
MIRL Rwy 18-36 L

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WASHINGTON COURT HOUSE, OHIO AL-6046 (FAA) 20310

APP CRS	Rwy ldg	5097
220°	TDZE	979
	Apt Elev	980

RNAV (GPS) RWY 23

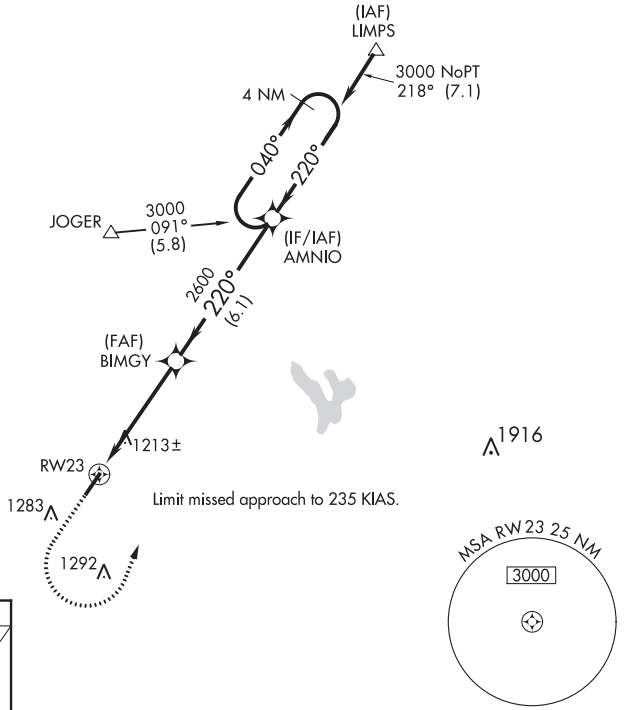
FAYETTE COUNTY (I23)

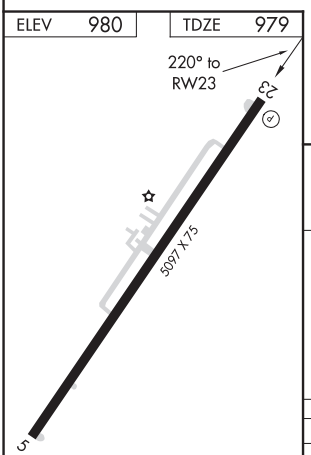
T A NA

DME/DME RNP-0.3 NA. Rwy 2 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Wilmington Air Park altimeter setting and increase all MDA 60 feet. Increase LNAV Cat C/D visibility ⅛ mile and Circling Cat C visibility ¼ mile. Procedure NA at night.

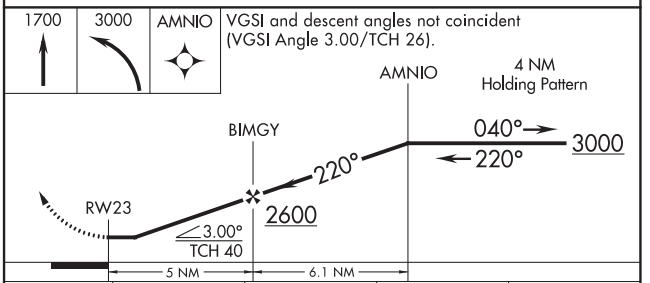
MISSED APPROACH: Climb to 1700 then climbing left turn to 3000 direct AMNIO and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.775	134.0 279.6	122.8 (CTAF) L





REIL Rwy 23 L
MIRL Rwy 5-23 L



CATEGORY	A	B	C	D
LNAV MDA	1540-1 561 (600-1)		1540-1⅝ 561 (600-1⅝)	
C CIRCLING	1580-1 600 (600-1)	1640-1 660 (700-1)	1640-1¾ 660 (700-1¾)	1660-2¼ 680 (700-2¼)

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NDB CSS	APP CRS	Rwy ldg	5097
414	223°	TDZE	979
		Apt Elev	980

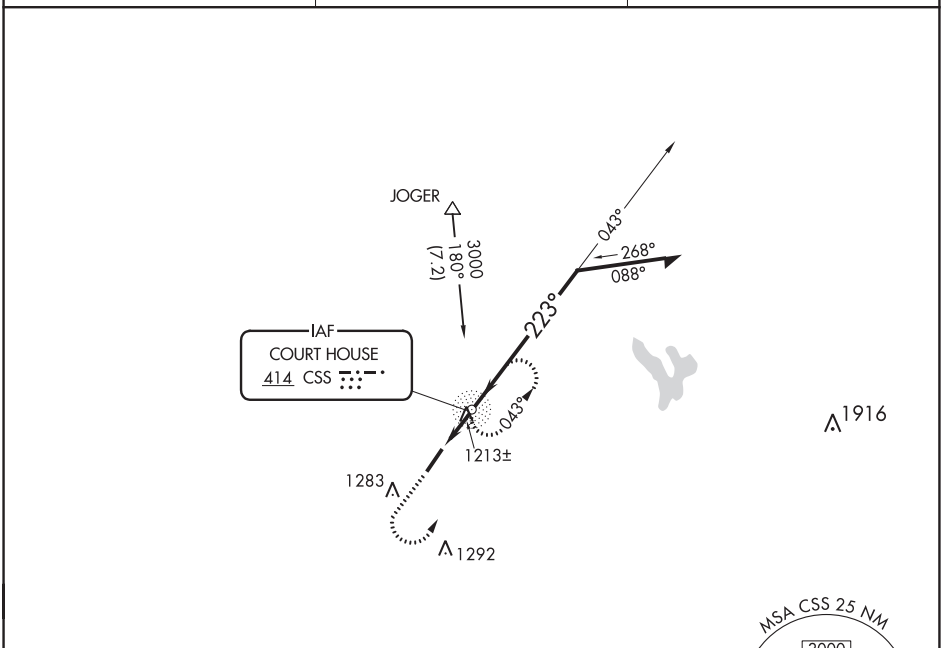
NDB RWY 23

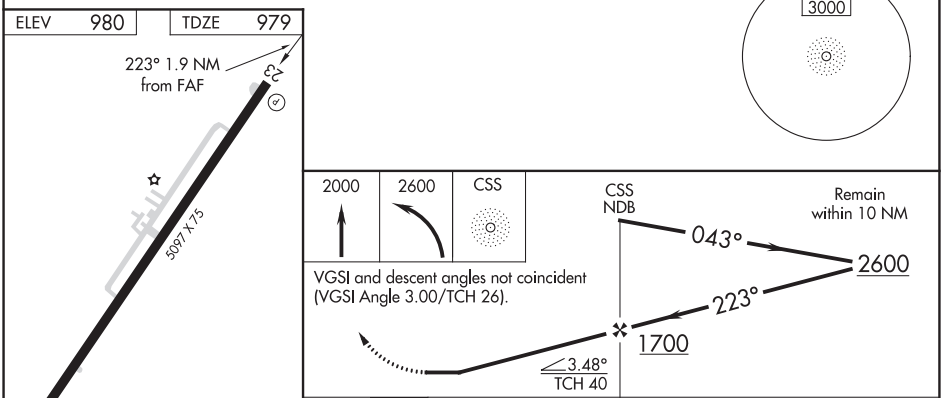
FAYETTE COUNTY (I23)

When local altimeter setting not received, use Wilmington Air Park altimeter setting and increase all MDAs 60 feet, and Circling visibility Cat C ¼ SM. Procedure NA at night. Rwy 23 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000, then climbing left turn to 2600 direct CSS NDB and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
118.775	134.0 279.6	122.8 (CTAF) L





FAF to MAP 1.9 NM					
Knots	60	90	120	150	180
Min:Sec	1:54	1:16	0:57	0:46	0:38

CATEGORY	A	B	C	D
S-23	1580-1 601 (600-1)		1580-1¾ 601 (600-1¾)	1580-2 601 (600-2)
C CIRCLING	1580-1 600 (600-1)	1640-1 660 (700-1)	1640-1¾ 660 (700-1¾)	1660-2¼ 680 (700-2¼)

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WAUSEON, OHIO | AL-5768 (FAA) | 19171

WAAS CH 93828 W09A	APP CRS 094°	Rwy ldg 3882 TDZE 779 Apt Elev 781

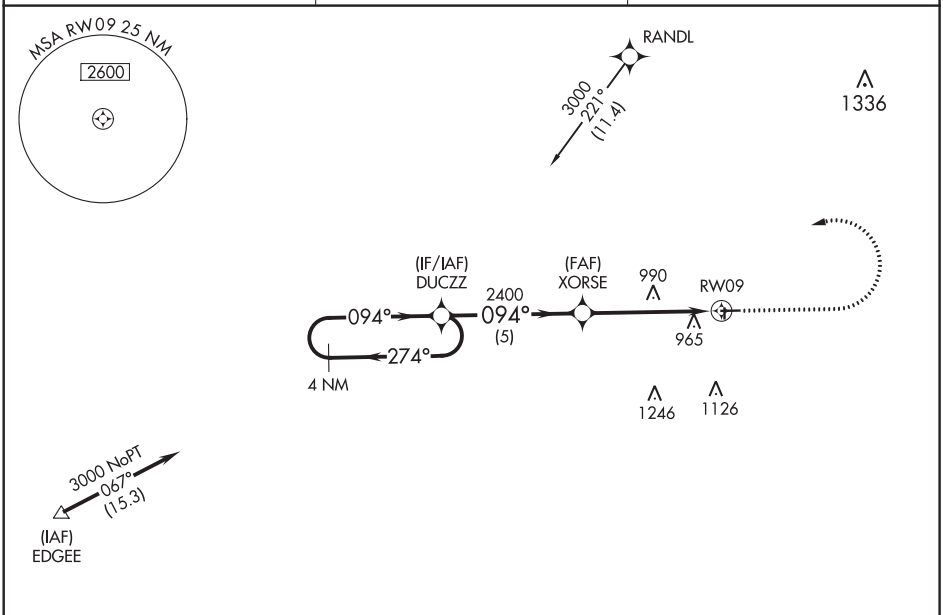
RNAV (GPS) RWY 9
FULTON COUNTY (USE)

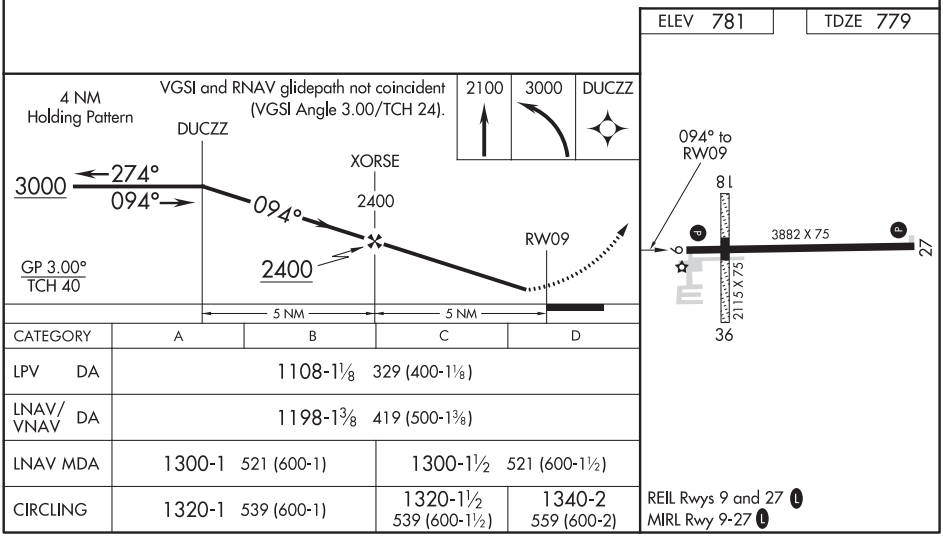
RNP APCH.

For uncompensated Baro-VNAV systems, procedure NA below -16°C or above 54°C. Circling Rwy 18, 36 NA at night. Rwy 9 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 9 and Circling Rwy 9, 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

MISSED APPROACH: Climb to 2100 then climbing left turn to 3000 direct DUCZZ and hold.

AWOS-3P	TOLEDO APP CON	UNICOM
127.375	134.35 317.55	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1108-1⅛ 329 (400-1⅛)			
LNAV/VNAV DA	1198-1⅜ 419 (500-1⅜)			
LNAV MDA	1300-1 521 (600-1)		1300-1½ 521 (600-1½)	
CIRCLING	1320-1 539 (600-1)		1320-1½ 539 (600-1½)	1340-2 559 (600-2)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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WAAS CH 66028 W27A	APP CRS 274°	Rwy ldg 3882 TDZE 777 Apt Elev 781

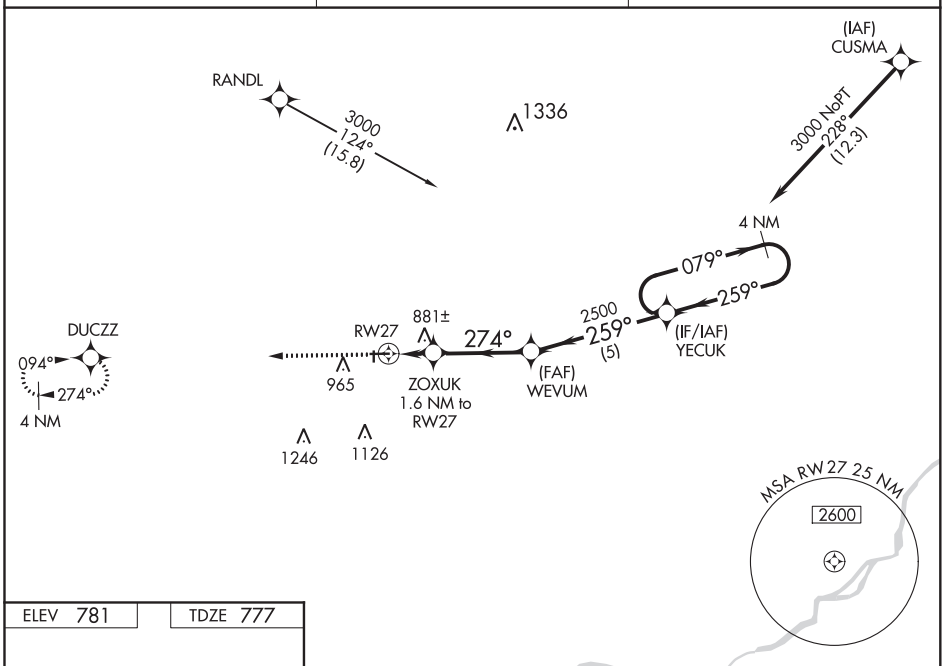
RNAV (GPS) RWY 27
FULTON COUNTY (USE)

RNP APCH.

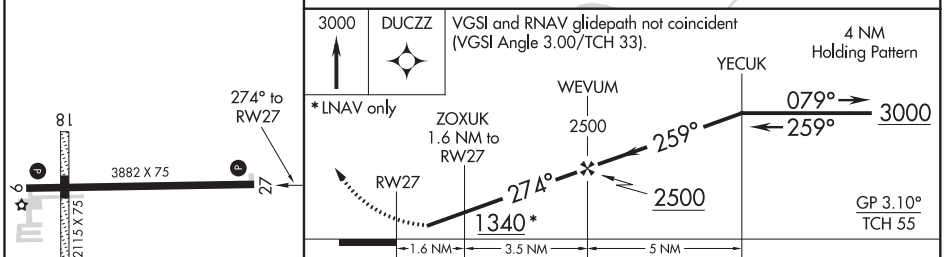
For uncompensated Baro-VNAV systems, procedure NA below -16°C or above 54°C. Circling Rwy 18, 36 NA at night. Rwy 27 helicopter visibility reduction below 1 SM NA. Straight-in Rwy 27 and Circling Rwy 9, 27 at night, operational VGSI required, remain on or above VGSI glidepath until threshold.

MISSED APPROACH: Climb to 3000 direct DUCZZ and hold.

AWOS-3P	TOLEDO APP CON	UNICOM
127.375	134.35 317.55	123.0 (CTAF) L



ELEV 781	TDZE 777



CATEGORY	A	B	C	D
LPV DA	1092-1 315 (400-1)			
LNAV/VNAV DA	1095-1 318 (400-1)			
LNAV MDA	1180-1 403 (400-1)		1180-1⅛ 403 (400-1⅛)	
CIRCLING	1320-1 539 (600-1)		1320-1½ 539 (600-1½)	1340-2 559 (600-2)

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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WAVERLY, OHIO AL-9431 (FAA) 20366

WAAS CH 56437 W07A	APP CRS 068°	Rwy ldg 4899 TDZE 661 Apt Elev 661

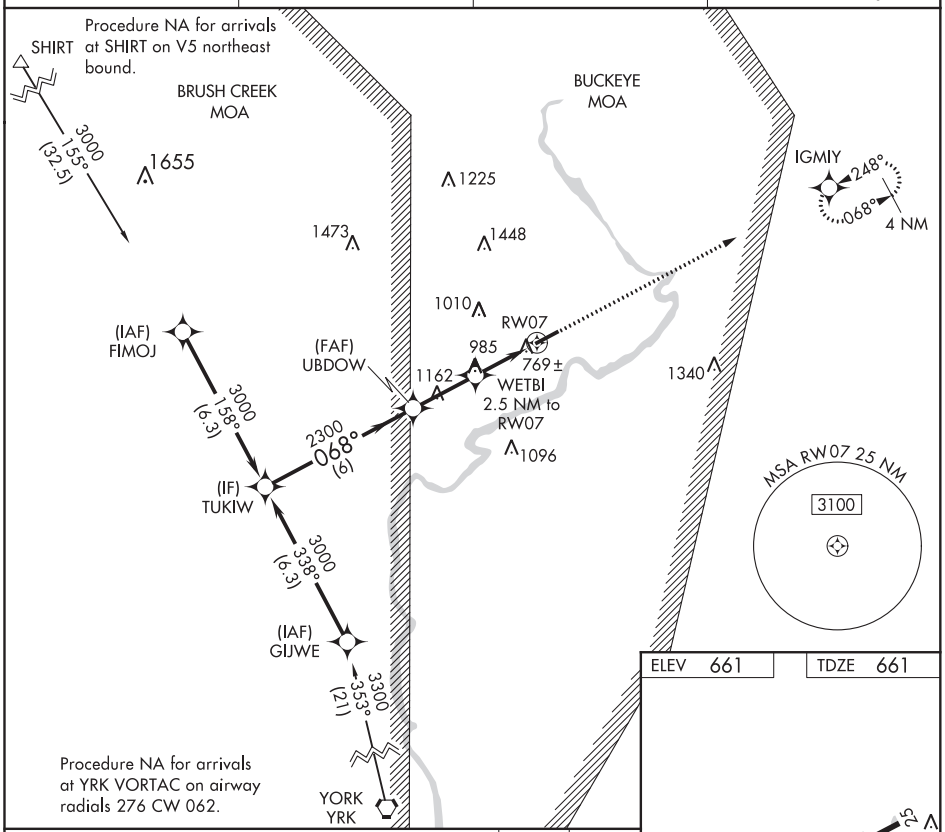
RNAV (GPS) RWY 7
PIKE COUNTY (EOP)

DME/DME RNP-0.3 NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Chillicothe altimeter setting and increase all MDA 60 feet, increase LP and LNAV visibility Cat C/D and Circling Cat A/B/C ¼ mile.

NA

MISSED APPROACH: Climb to 3000 direct IGMIY and hold.

AWOS-A	PMH AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.4	125.175	135.575 290.5	123.0 (CTAF) L



CATEGORY	A	B	C	D
LP MDA	1020-1 359 (400-1)			
LNAV MDA	1300-1 639 (700-1)		1300-1¾ 639 (700-1¾)	
C CIRCLING	1440-1 779 (800-1)	1460-1 799 (800-1)	1520-2½ 859 (900-2½)	1640-3 979 (1000-3)

REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

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WAAS CH 97537 W25A	APP CRS 248°	Rwy ldg 4899 TDZE 661 Apt Elev 661

RNAV (GPS) RWY 25
PIKE COUNTY (EOP)

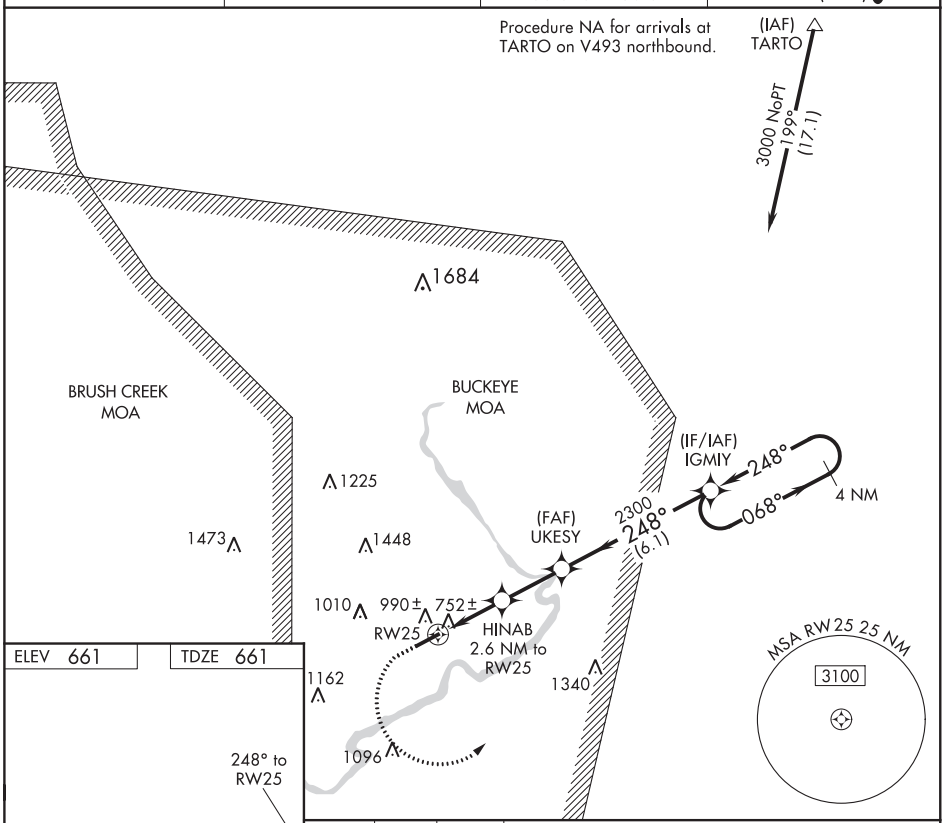
RNP APCH.

T NA

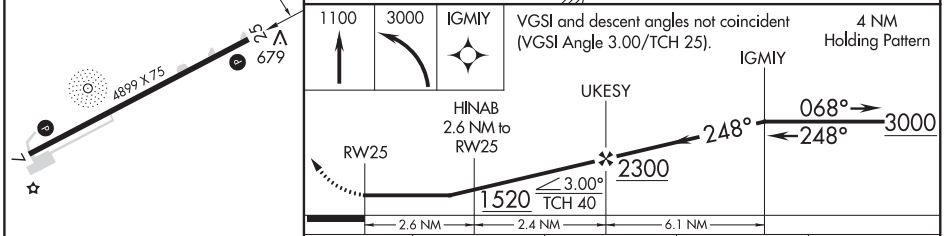
When local altimeter setting not received, use Chillicothe altimeter setting and increase all MDA 60 feet, increase LP Cat C/D visibility and LNAV Cat C/D visibility ⅛ mile, and Circling Cat A/B/C visibility ¼ mile. Circling Rwy 7 NA at night. Rwy 25 helicopter visibility reduction below ¾ NA.

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 direct IGMIY and hold.

AWOS-A	PMH AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.4	125.175	135.575 290.5	123.0 (CTAF) L



ELEV 661 TDZE 661



CATEGORY	A	B	C	D
LP MDA	1020-1 359 (400-1)			
LNAV MDA	1240-1 579 (600-1)		1240-1⅝ 579 (600-1⅝)	
C CIRCLING	1440-1 779 (800-1)	1460-1 799 (800-1)	1520-2½ 859 (900-2½)	1640-3 979 (1000-3)

REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

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WAVERLY, OHIO | AL-9431 (FAA) | 20366

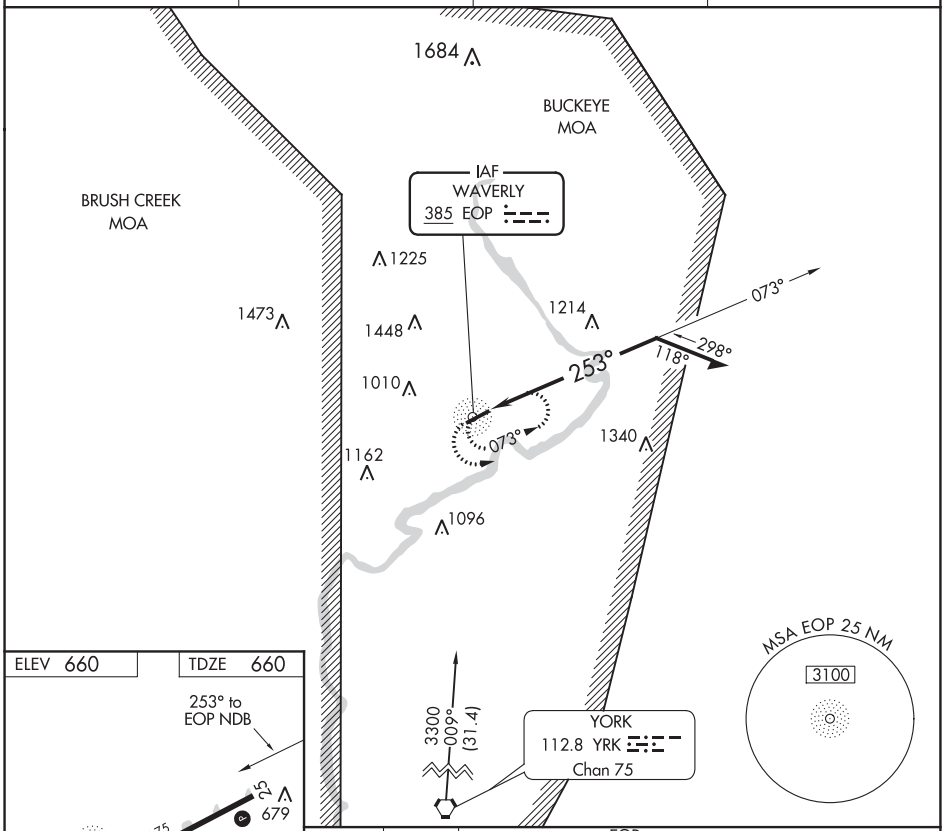
NDB RWY 25
PIKE COUNTY (EOP)

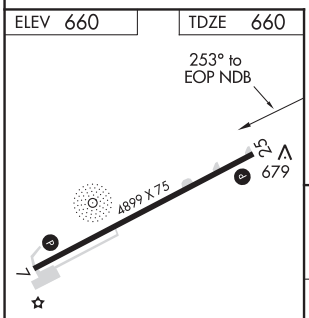
NDB EOP	APP CRS	Rwy ldg	4899
385	253°	TDZE	660
		Apt Elev	660

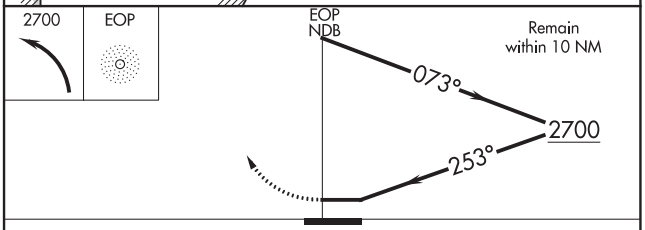
Use Greater Portsmouth Rgnl altimeter setting; if not received, use Ross County altimeter setting. Night landing: Rwy 7 NA.

MISSED APPROACH: Climbing left turn to 2700 in EOP NDB holding pattern.

AWOS-A	PMH AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.4	125.175	135.575 290.5	123.0 (CTAF) L







CATEGORY	A	B	C	D
S-25	1620-1¼ 960 (1000-1¼)	1620-1½ 960 (1000-1½)	1620-3	960 (1000-3)
CIRCLING	1620-1¼ 960 (1000-1¼)	1620-1½ 960 (1000-1½)	1620-3	960 (1000-3)

REIL Rwys 7 and 25 L
MIRL Rwy 7-25 L

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RNAV (GPS) RWY 5
ALEXANDER SALAMON (AMT)

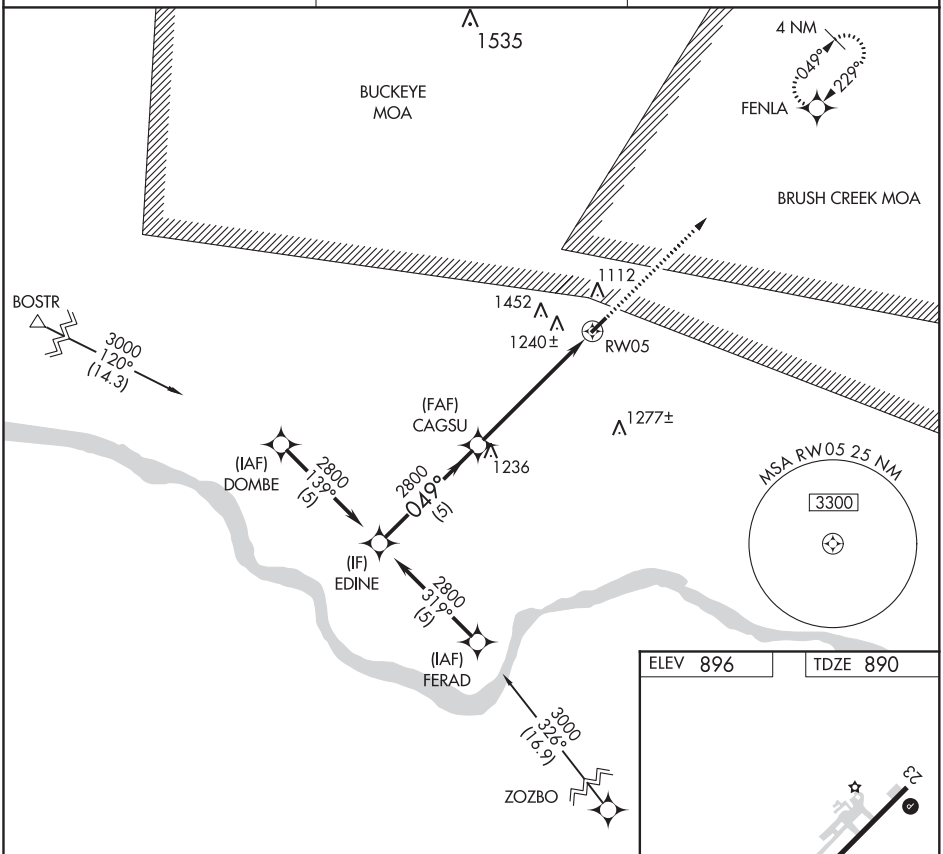
APP CRS	Rwy ldg	3558
049°	TDZE	890
	Apt Elev	896

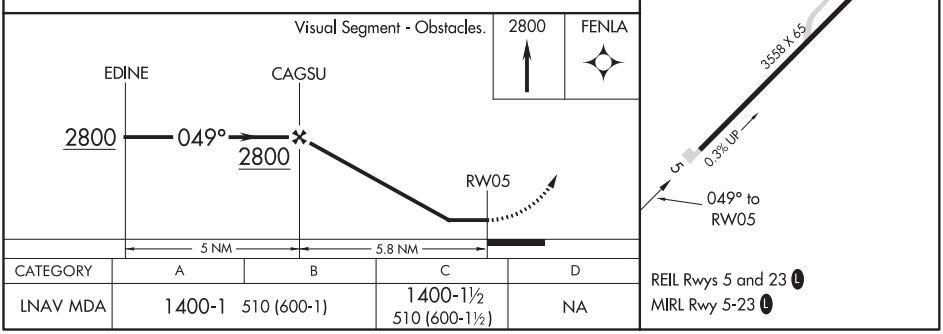
RNP APCH.

Procedure NA at night. Rwy 5 helicopter visibility reduction below 1 SM NA. Use Flemingsburg, Kentucky altimeter setting.

MISSED APPROACH: Climb to 2800 direct FENLA and hold.

FGX AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.125	135.575 290.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1400-1 510 (600-1)		1400-1½ 510 (600-1½)	NA

REIL Rwys 5 and 23 L
MIRL Rwy 5-23 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WEST UNION, OHIO

AL-6236 (FAA)

20142

RNAV (GPS) RWY 23
ALEXANDER SALAMON (AMT)

APP CRS	Rwy ldg	3558
229°	TDZE	896
	Apt Elev	896

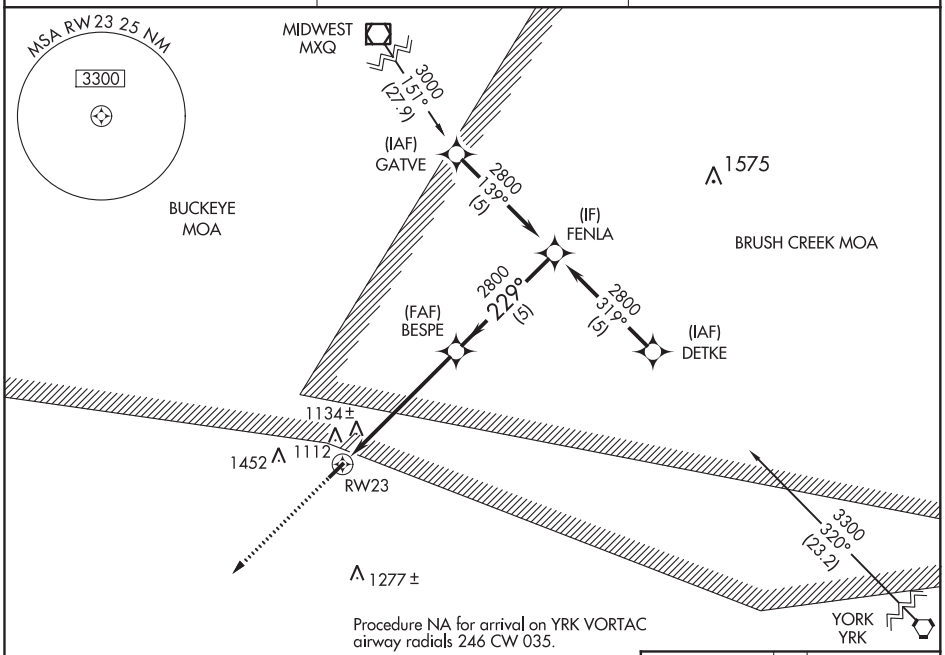
RNP APCH.

T NA

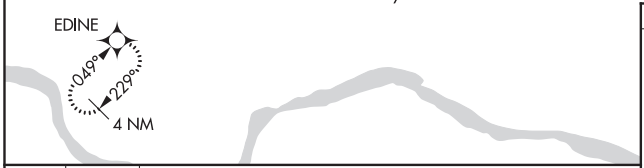
Procedure NA at night. Rwy 23 helicopter visibilty reduction below 1 SM NA. Use Flemingsburg, Kentucky altimeter setting.

MISSED APPROACH: Climb to 2800 direct EDINE and hold.

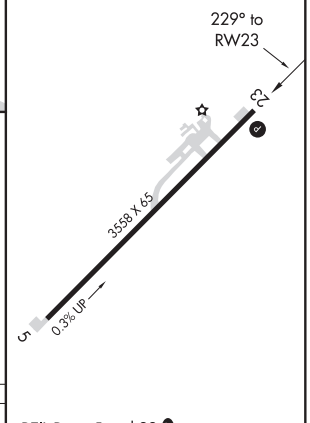
FGX AWOS-3	INDIANAPOLIS CENTER	UNICOM
118.125	135.575 290.5	122.8 (CTAF) L



Procedure NA for arrival on YRK VORTAC airway radials 246 CW 035.



ELEV 896	TDZE 896

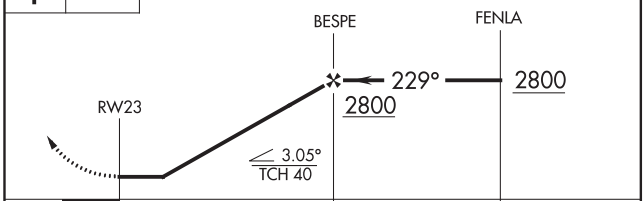


REIL Rwys 5 and 23 L

MIRL Rwy 5-23 L

2800 EDINE

VGSI and descent angles not coincident (VGSI Angle 3.30/TCH 25).



CATEGORY	A	B	C	D
LNAV MDA	1440-1 544 (600-1)		1440-1½ 544 (600-1½)	NA

WEST UNION, OHIO

Orig-C 05DEC19

38°51′N-83°34′W

ALEXANDER SALAMON (AMT)

RNAV (GPS) RWY 23

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	N/A
335°	TDZE	N/A
	Apt Elev	967

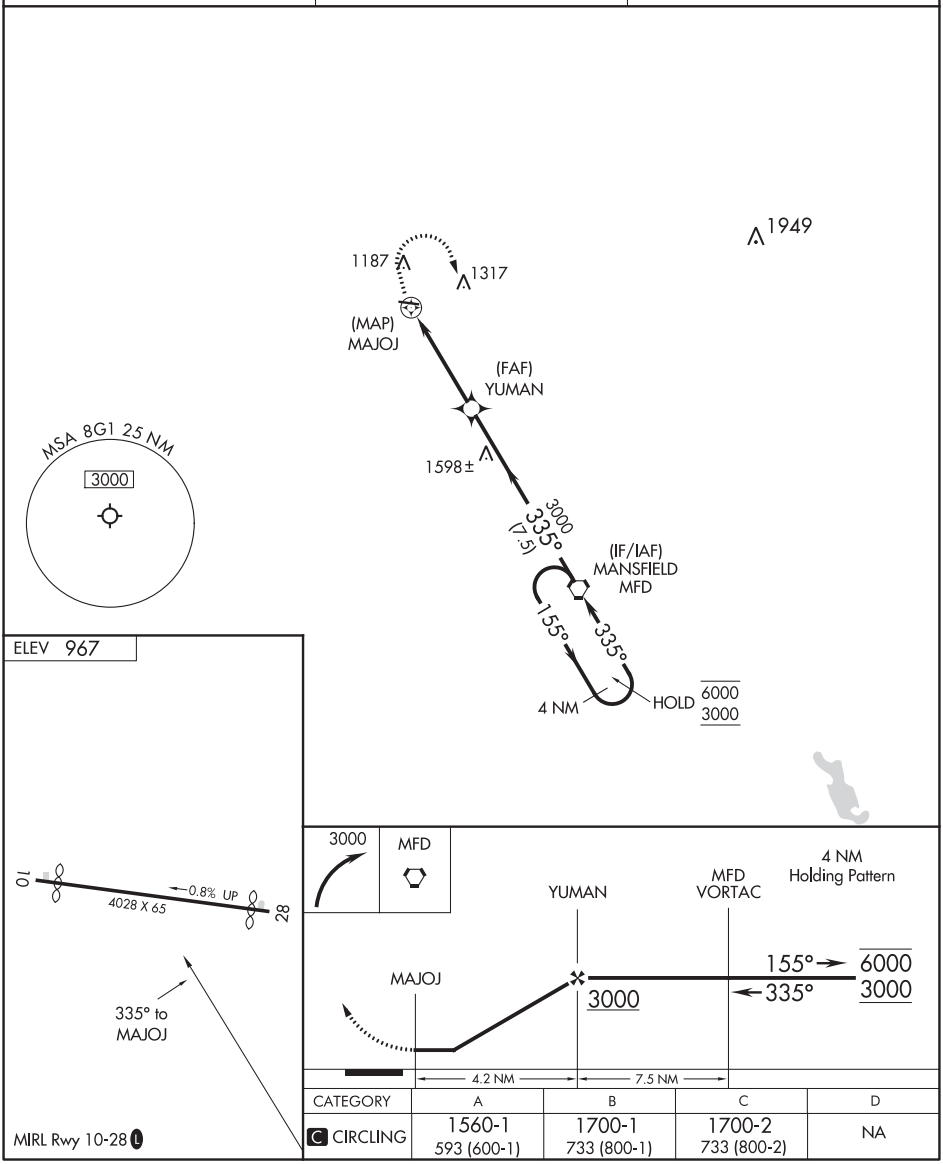
RNAV (GPS)-A
WILLARD (8G1)

RNP APCH.

NA Procedure NA at night. Use Marion altimeter setting.

MISSED APPROACH: Climbing right turn to 3000 direct MFD VORTAC and hold.

MNN ASOS	CLEVELAND APP CON ★	CTAF Ⓛ
119.975	124.2 360.65	122.9



CATEGORY	A	B	C	D
Ⓒ CIRCLING	1560-1 593 (600-1)	1700-1 733 (800-1)	1700-2 733 (800-2)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WILLOUGHBY, OHIO | AL-753 (FAA) | 20142

APP CRS	Rwy ldg	4600
053°	TDZE	624
	Apt Elev	626

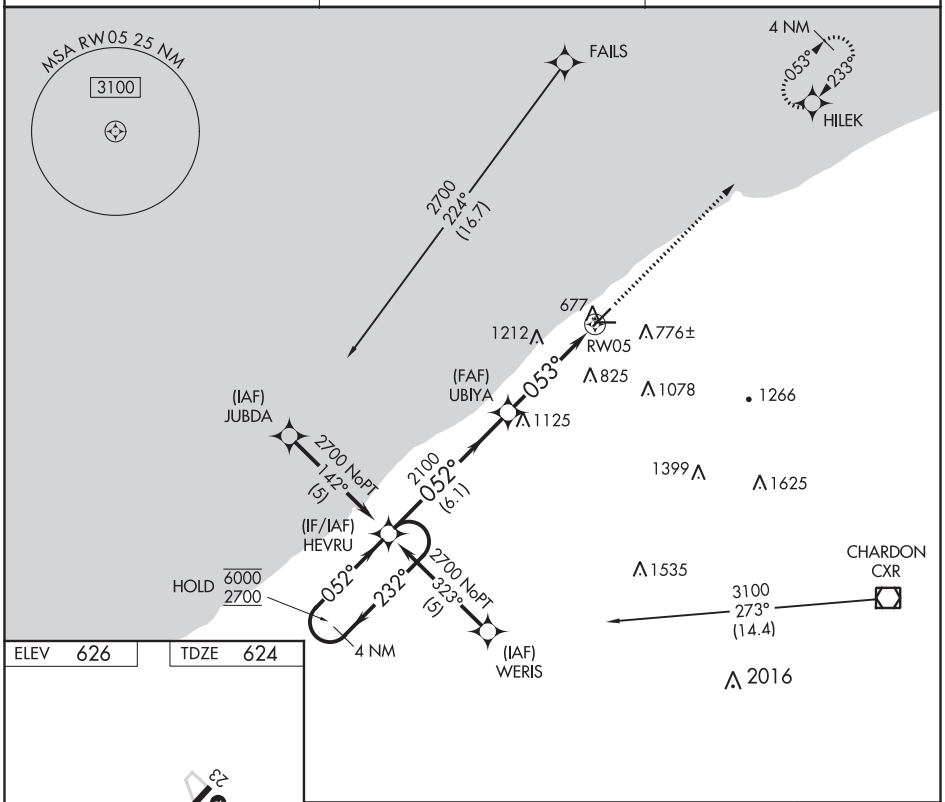
RNAV (GPS) RWY 5
LAKE COUNTY EXECUTIVE (LNN)

RNP APCH.

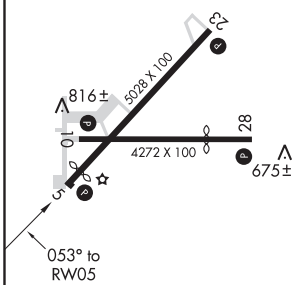
Rwy 5 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2300 direct HILEK and hold.

AWOS-3PT	CLEVELAND APP CON	UNICOM
119.225	125.35 346.325	122.725 (CTAF) L

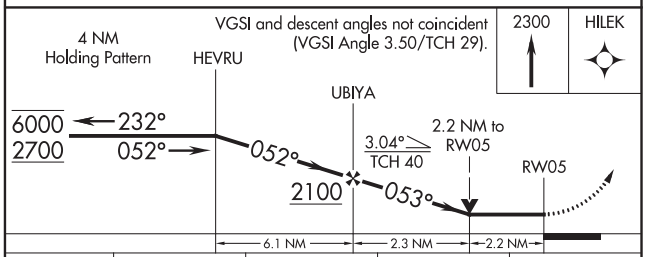


ELEV 626 | TDZE 624



REIL Rwys 5, 10, 23 and 28 L
MIRL Rwys 5-23 and 10-28 L

VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 29).



CATEGORY	A	B	C	D
LNAV MDA	1460-1 836 (900-1)	1460-1¼ 836 (900-1¼)	1460-2½ 836 (900-2½)	NA
CIRCLING	1460-1¼	834 (900-1¼)	1460-2½ 834 (900-2½)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	4272
098°	TDZE	625
	Apt Elev	626

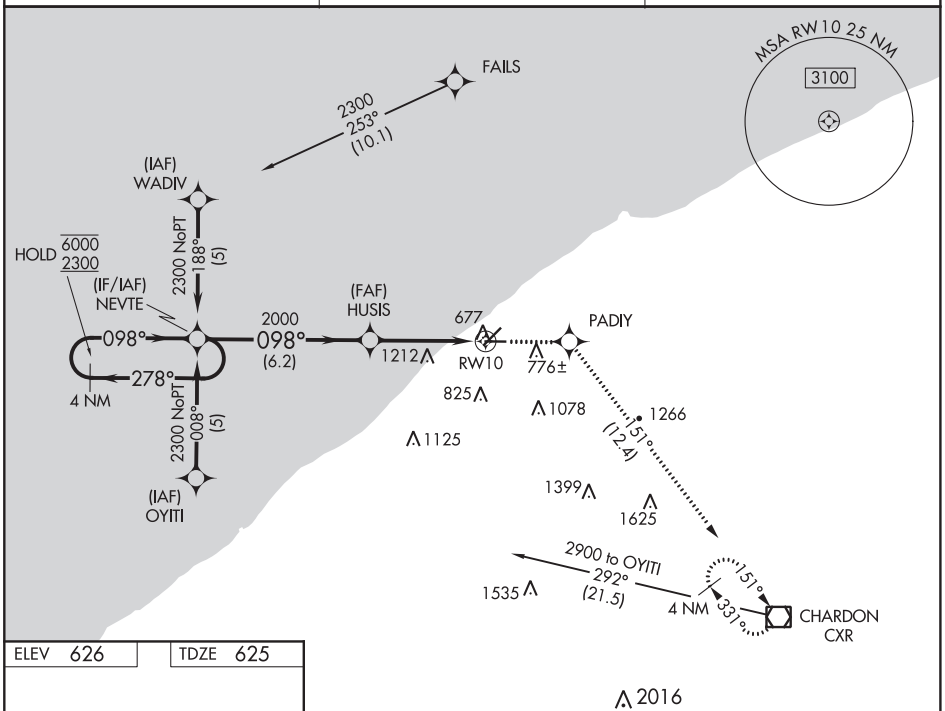
RNAV (GPS) RWY 10
LAKE COUNTY EXECUTIVE (LNN)

RNP APCH.

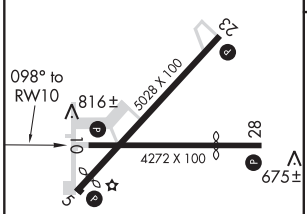
Rwy 10 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2900 direct PADIY and on track 151° to CXR VOR/DME and hold.

AWOS-3PT	CLEVELAND APP CON	UNICOM
119.225	125.35 346.325	122.725 (CTAF) L



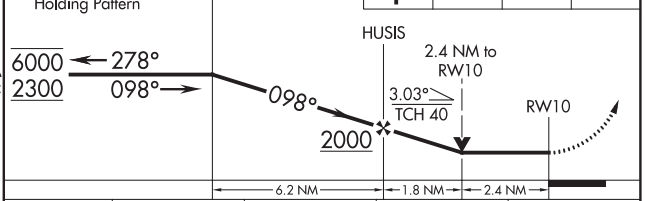
ELEV 626 TDZE 625



REIL Rwys 5, 10, 23 and 28 L
MIRL Rwys 5-23 and 10-28 L

VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 47).

2900	PADIY	tr 151°	CXR



CATEGORY	A	B	C	D
LNAV MDA	1560-1¼ 935 (1000-1¼)		1560-2¾ 935 (1000-2¾)	NA
CIRCLING	1560-1¼ 934 (1000-1¼)		1560-2¾ 934 (1000-2¾)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
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WILLOUGHBY, OHIO | AL-753 (FAA) | 20142

WAAS CH 82410 W23A	APP CRS 233°	Rwy ldg 5028 TDZE 623 Apt Elev 626

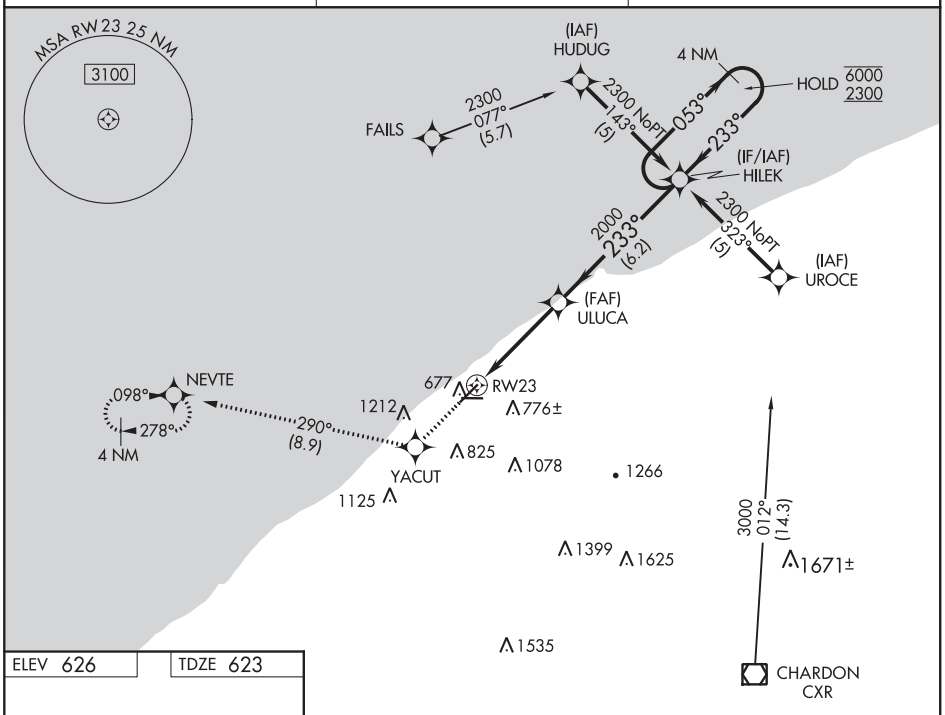
RNAV (GPS) RWY 23
LAKE COUNTY EXECUTIVE (LNN)

RNP APCH.

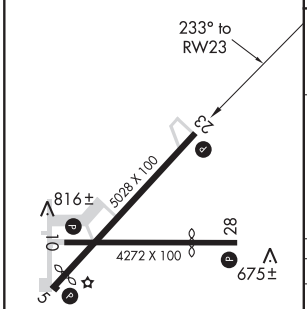
Rwy 23 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

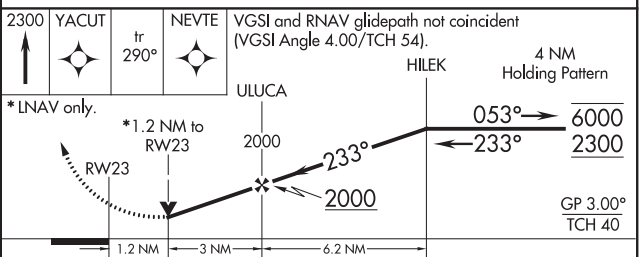
MISSED APPROACH: Climb to 2300 direct YACUT and on track 290° to NEVTE and hold.

AWOS-3PT	CLEVELAND APP CON	UNICOM
119.225	125.35 346.325	122.725 (CTAF) L



ELEV 626 | TDZE 623





CATEGORY	A	B	C	D
LPV DA	1031-1½ 408 (500-1½)			NA
LNAV/VNAV DA	1142-1¾ 519 (600-1¾)			NA
LNAV MDA	1200-1 577 (600-1)		1200-1⅝ 577 (600-1⅝)	NA
CIRCLING	1200-1 574 (600-1)		1200-1⅝ 574 (600-1⅝)	NA

REIL Rwys 5, 10, 23 and 28 L
MIRL Rwys 5-23 and 10-28 L

WILLOUGHBY, OHIO
Orig-C 26MAR20

41°41′N-81°23′W

LAKE COUNTY EXECUTIVE (LNN)
RNAV (GPS) RWY 23

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	3148
279°	TDZE	626
	Apt Elev	626

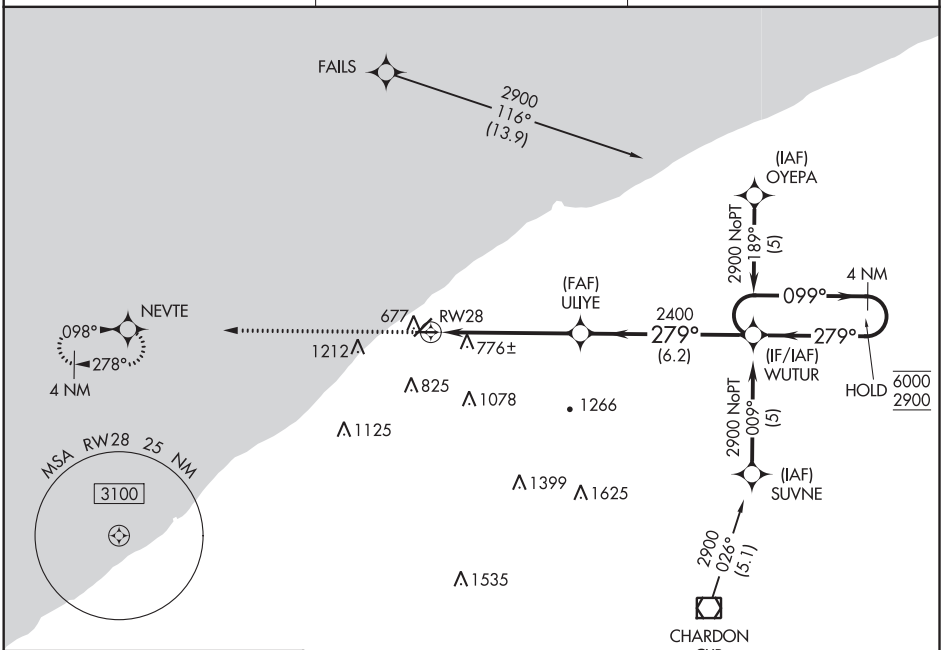
RNAV (GPS) RWY 28
LAKE COUNTY EXECUTIVE (LNN)

RNP APCH.

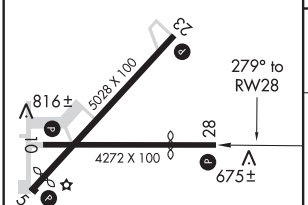
Rwy 28 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2300 direct NEVTE and hold.

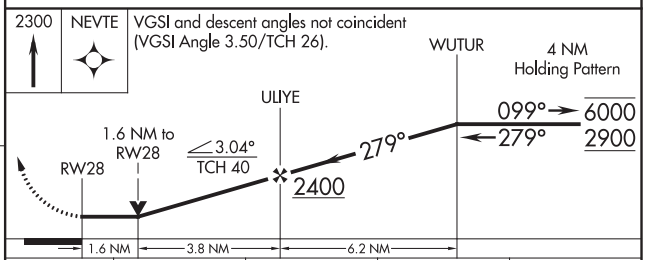
AWOS-3PT	CLEVELAND APP CON	UNICOM
119.225	125.35 346.325	122.725 (CTAF) L



ELEV 626	TDZE 626



MIRL Rwys 5-23 and 10-28 L
REIL Rwys 5, 10, 23, and 28 L



CATEGORY	A	B	C	D
LNAV MDA	1260-1 634 (700-1)		1260-1¾ 634 (700-1¾)	NA
CIRCLING	1260-1 634 (700-1)		1260-1¾ 634 (700-1¾)	NA

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WILLOUGHBY, OHIO AL-753 (FAA) 20254

NDB LQL	APP CRS	Rwy ldg	4272
263	099°	TDZE	625
		Apt Elev	626

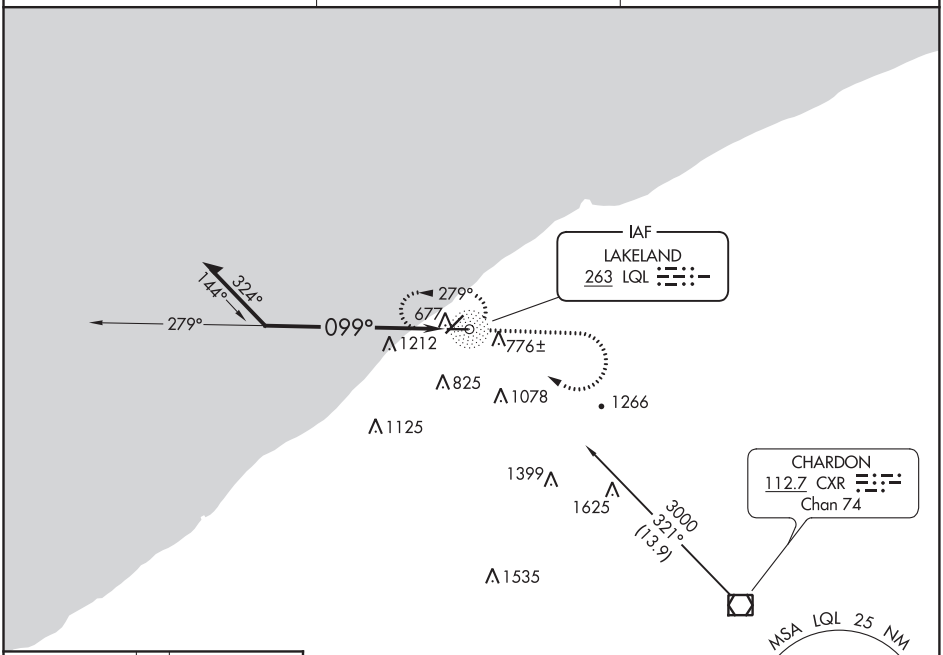
NDB RWY 10
LAKE COUNTY EXECUTIVE (LNN)

RADAR required for procedure entry.

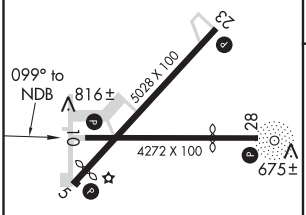
T A NA Rwy 10 helicopter visibility reduction below ¾ SM NA.

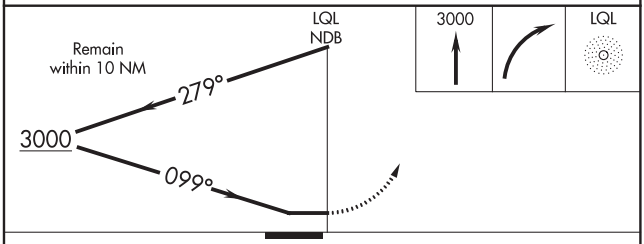
MISSED APPROACH: Climb to 3000 then right turn direct LQL NDB and hold.

AWOS-3PT	CLEVELAND APP CON	UNICOM
119.225	125.35 346.325	122.725 (CTAF) L



ELEV 626 TDZE 625





CATEGORY	A	B	C	D
S-10	1700-1¼ 1075 (1100-1¼)	1700-1½ 1075 (1100-1½)	1700-3 1075 (1100-3)	NA
CIRCLING	1700-1¼ 1074 (1100-1¼)	1700-1½ 1074 (1100-1½)	1700-3 1074 (1100-3)	NA

REIL Rwys 5, 10, 23 and 28 L
MIRL Rwys 5-23 and 10-28 L

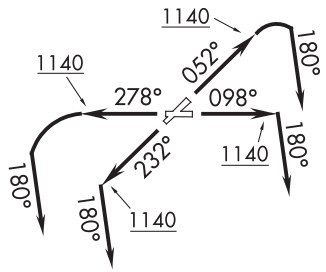
EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

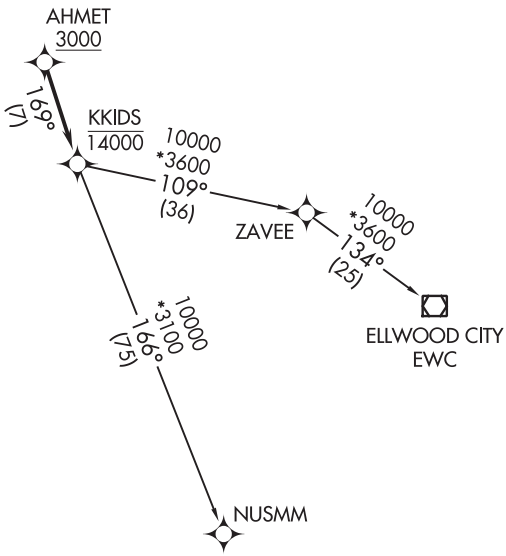
AHMET FOUR DEPARTURE (RNAV)

AWOS-3PT 119.225
CTAF 122.725
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS:
Rwys 5, 10, 23, 28: Standard with minimum climb of 500′ per NM to 1140.



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

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb on heading 052° to 1140, then right turn on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAY 10: Climb on heading 098° to 1140, then on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAY 23: Climb on heading 232° to 1140, then on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....
TAKEOFF RUNWAY 28: Climb on heading 278° to 1140, then left turn on heading 180° or as assigned by ATC for RADAR vectors to cross AHMET at or above 3000, thence....

....on track 169° to cross KKIDS at or below 14000, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

ELLWOOD CITY TRANSITION (AHMET4.EWC)
NUSMM TRANSITION (AHMET4.NUSMM)

EC-2, 25 FEB 2021 to 22 APR 2021

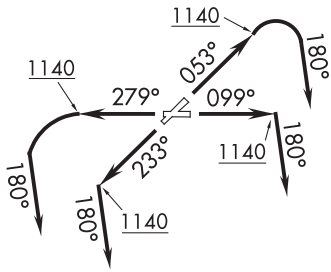
(CAVVS4.CAVVS) 20086 AL-753 (FAA)

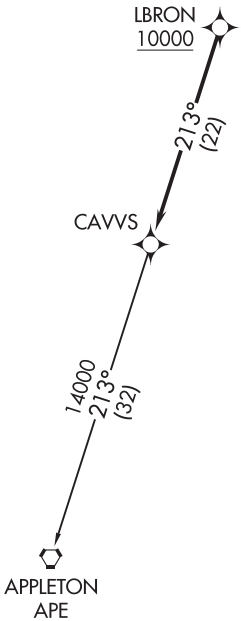
CAVVS FOUR DEPARTURE (RNAV)

LAKE COUNTY EXECUTIVE (LNN)
WILLOUGHBY, OHIO

AWOS-3PT 119.225
CTAF 122.725
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC





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

TAKEOFF MINIMUMS:
Rwys 5, 10, 23, 28: Standard with a minimum climb of 500′ per NM to 1140.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb on heading 053° to 1140, then right turn heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 10: Climb on heading 099° to 1140, then on heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 23: Climb on heading 233° to 1140, then on heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....
TAKEOFF RUNWAY 28: Climb on heading 279° to 1140, then left turn heading 180° or as assigned by ATC for RADAR vectors to cross LBRON at or above 10000, thence....

....on track 213° to CAVVS, then on (transition).
Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

APPLETON TRANSITION (CAVVS4.APE)

NOTE: Chart not to scale.

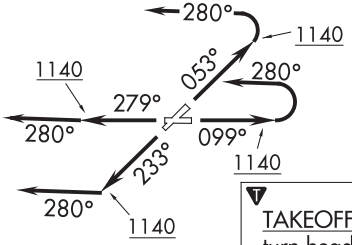
EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

GTLKE FOUR DEPARTURE (RNAV)

LAKE COUNTY EXECUTIVE (LNN)
WILLOUGHBY, OHIO

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3PT
119.225
CTAF
122.725
CLEVELAND DEP CON
125.35 346.325



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 5: Climb on heading 053° to 1140, then left turn heading 280° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 10: Climb on heading 099° to 1140, then left turn heading 280° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

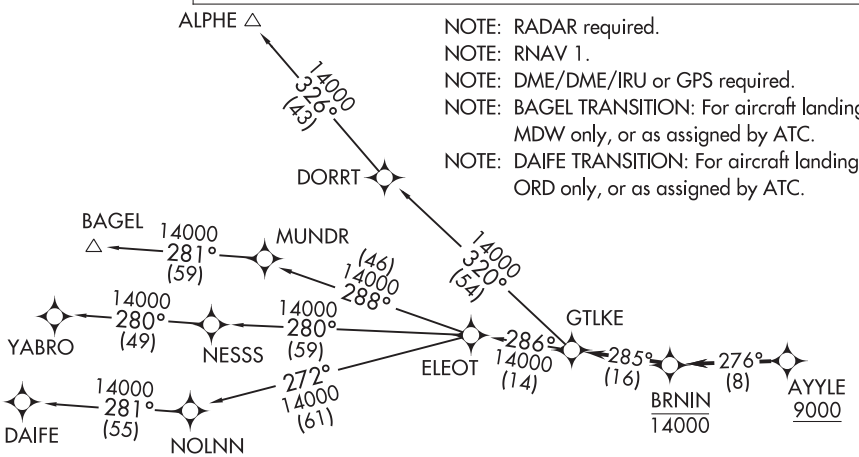
TAKEOFF RUNWAY 23: Climb on heading 233° to 1140, then on heading 280° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

TAKEOFF RUNWAY 28: Climb on heading 279° to 1140, then on heading 280° or as assigned by ATC for RADAR vectors to cross AYYLE at or above 9000, thence....

....on track 276° to cross BRNIN at or below 14000, then on track 285° to GTLKE then on (transition). Maintain ATC assigned altitude, expect filed altitude ten minutes after departure.

ALPHE TRANSITION (GTLKE4.ALPHE)
BAGEL TRANSITION (GTLKE4.BAGEL)
DAIFE TRANSITION (GTLKE4.DAIFE)
YABRO TRANSITION (GTLKE4.YABRO)

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: BAGEL TRANSITION: For aircraft landing MDW only, or as assigned by ATC.
NOTE: DAIFE TRANSITION: For aircraft landing ORD only, or as assigned by ATC.



TAKEOFF MINIMUMS:
Rwys 5, 10, 23, 28: Standard with a minimum climb of 500' per NM to 1140.

NOTE: Chart not to scale.

EC-2, 25 FEB 2021 to 22 APR 2021

(MYCAR4.MYCAR) 20086 AL-753 (FAA)

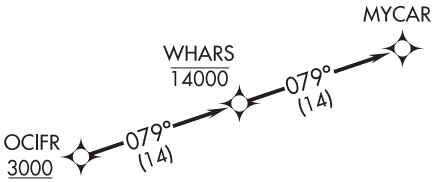
MYCAR FOUR DEPARTURE (RNAV)

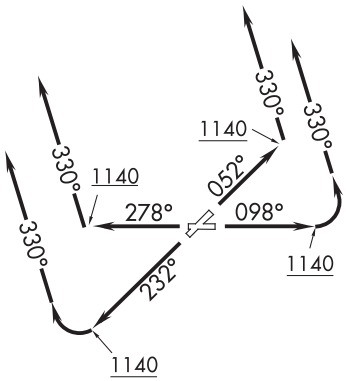
LAKE COUNTY EXECUTIVE (LNN)
WILLOUGHBY, OHIO

AWOS-3PT
119.225
CTAF 122.725
CLEVELAND DEP CON
125.35 346.325

TOP ALTITUDE: ASSIGNED BY ATC

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





TAKEOFF MINIMUMS:
Rwys 5, 10, 23, 28: Standard with minimum climb of 500′ per NM to 1140.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

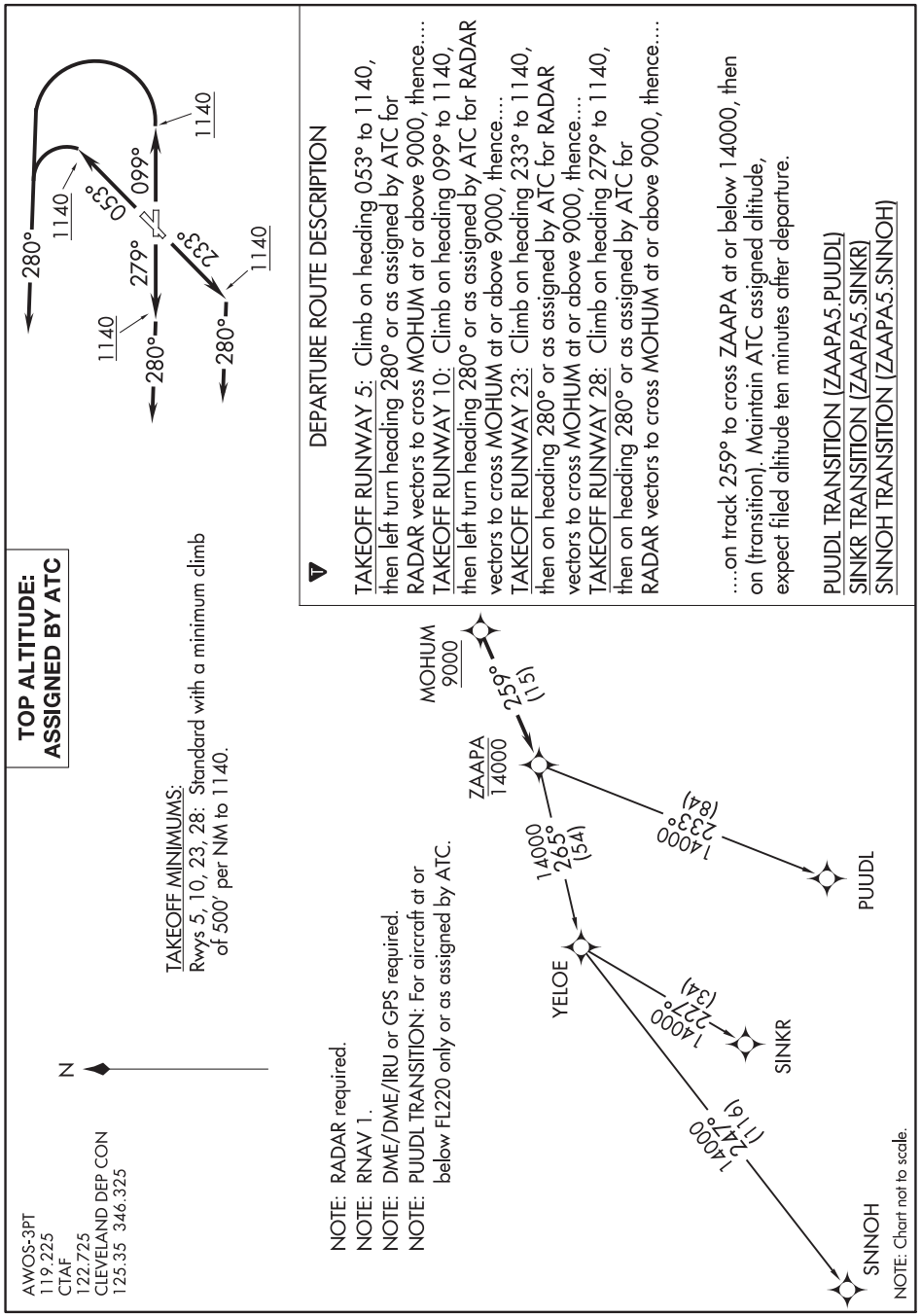
TAKEOFF RUNWAY 5: Climb on heading 052° to 1140, then on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAY 10: Climb on heading 098° to 1140, then left turn on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAY 23: Climb on heading 232° to 1140, then right turn on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....
TAKEOFF RUNWAY 28: Climb on heading 278° to 1140, then on heading 330° or as assigned by ATC for RADAR vectors to cross OCIFR at or above 3000, thence....

....on track 079° to cross WHARS at or below 14000, then on track 079° to MYCAR. Maintain altitude assigned by ATC, expect filed altitude ten minutes after departure.

EC-2, 25 FEB 2021 to 22 APR 2021

ZAAPA FIVE DEPARTURE (RNAV)

LAKE COUNTY EXECUTIVE (LNN)
WILLOUGHBY, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WILMINGTON, OHIO | AL-9153 (FAA) | 19227

APP CRS	Rwy ldg	3579
033°	TDZE	1033
	Apt Elev	1033

RNAV (GPS) RWY 3
CLINTON FIELD (I66)

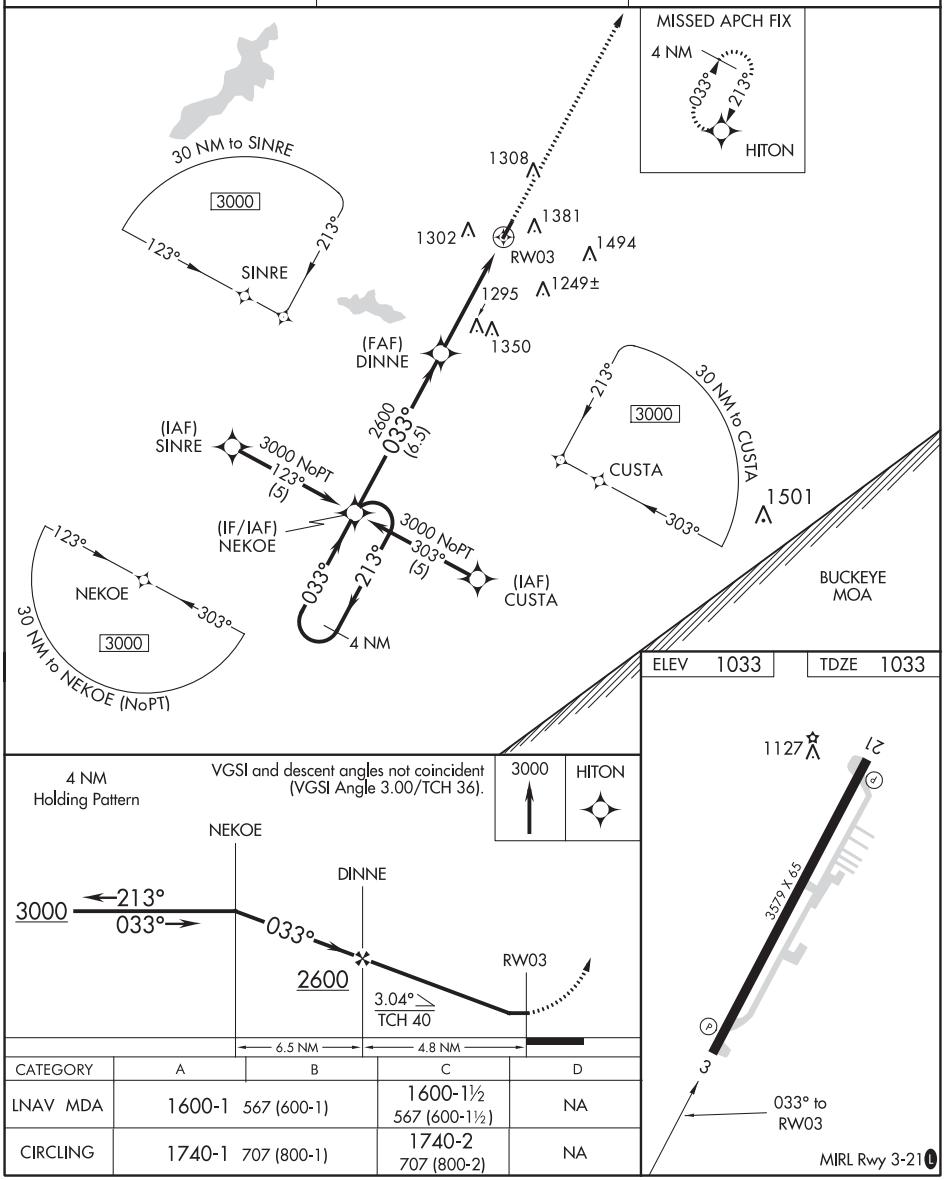
RNP APCH.

If local altimeter setting not received, use Wilmington Air Park altimeter setting and increase all MDAs 20 feet. Rwy 3 helicopter visibility reduction below ¾ SM NA.

NA

MISSED APPROACH: Climb to 3000 direct HITON and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
124.175	118.85 269.275	123.0 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	1600-1 567 (600-1)		1600-1½ 567 (600-1½)	NA
CIRCLING	1740-1 707 (800-1)		1740-2 707 (800-2)	NA

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WILMINGTON, OHIO
Orig-A 15AUG19

39°30′N-83°52′W

CLINTON FIELD (I66)
RNAV (GPS) RWY 3

WAAS CH 99608 W21A	APP CRS 213°	Rwy ldg 3579 TDZE 1033 Apt Elev 1033

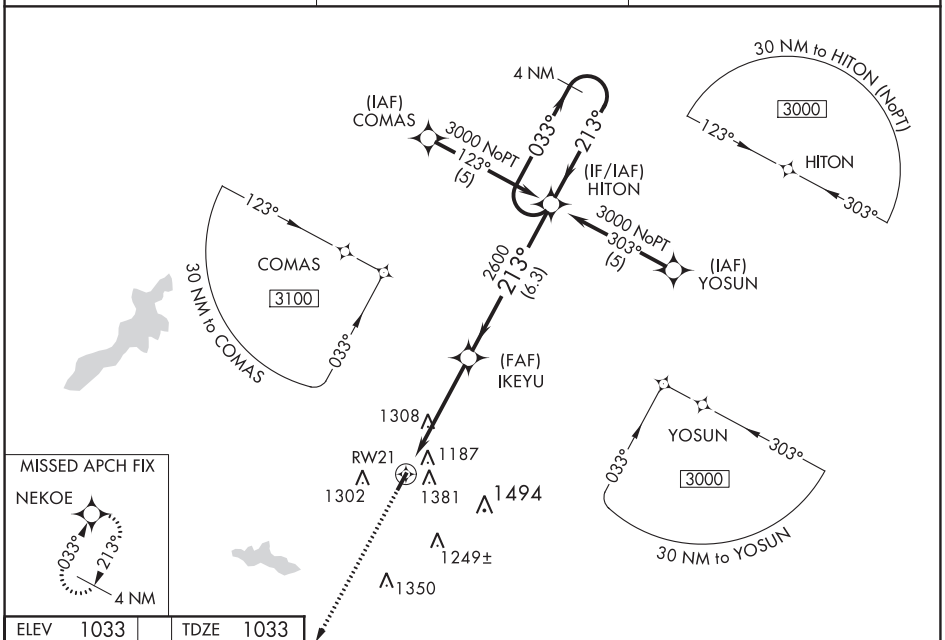
RNAV (GPS) RWY 21
CLINTON FIELD (I66)

RNP APCH.

T A NA — Baro-VNAV NA when using Wilmington Air Park altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C. When local altimeter setting not received, use Wilmington Air Park altimeter setting and increase all DA/MDA 20 feet. Rwy 21 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct NEKOE and hold.

AWOS-3	COLUMBUS APP CON	UNICOM
124.175	118.85 269.275	123.0 (CTAF) L

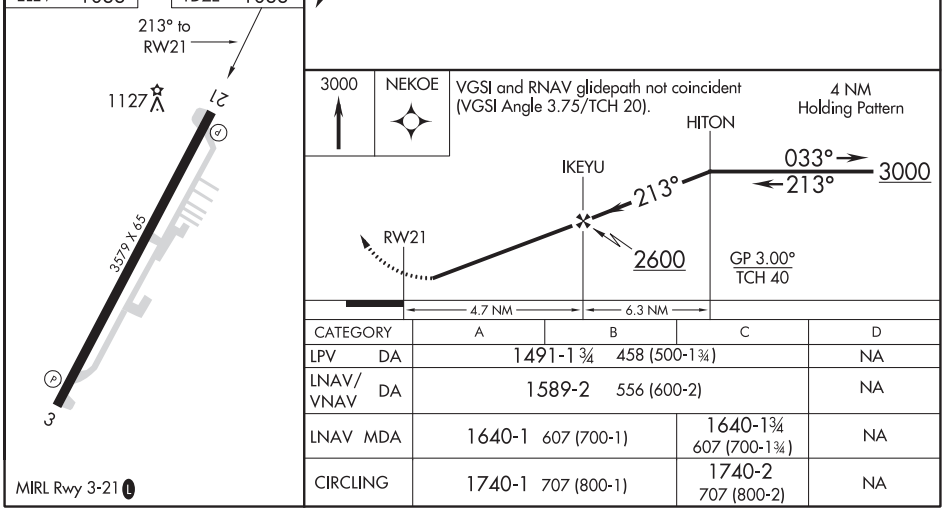


MISSED APCH FIX

NEKOE

033° 213° 4 NM

ELEV 1033 TDZE 1033



CATEGORY	A	B	C	D
LPV DA	1491-1¾ 458 (500-1¾)			NA
LNAV/VNAV DA	1589-2 556 (600-2)			NA
LNAV MDA	1640-1 607 (700-1)		1640-1¾ 607 (700-1¾)	NA
CIRCLING	1740-1 707 (800-1)		1740-2 707 (800-2)	NA

MIRL Rwy 3-21 L

EC-2, 25 FEB 2021 to 22 APR 2021

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WILMINGTON, OHIO | AL-583 (FAA) | 21056

ILS or LOC RWY 4L
WILMINGTON AIR PARK (ILN)

LOC I-HWM	APP CRS	Rwy ldg / TDZE / Apt Elev
110.7	041°	10701 / 1057 / 1077

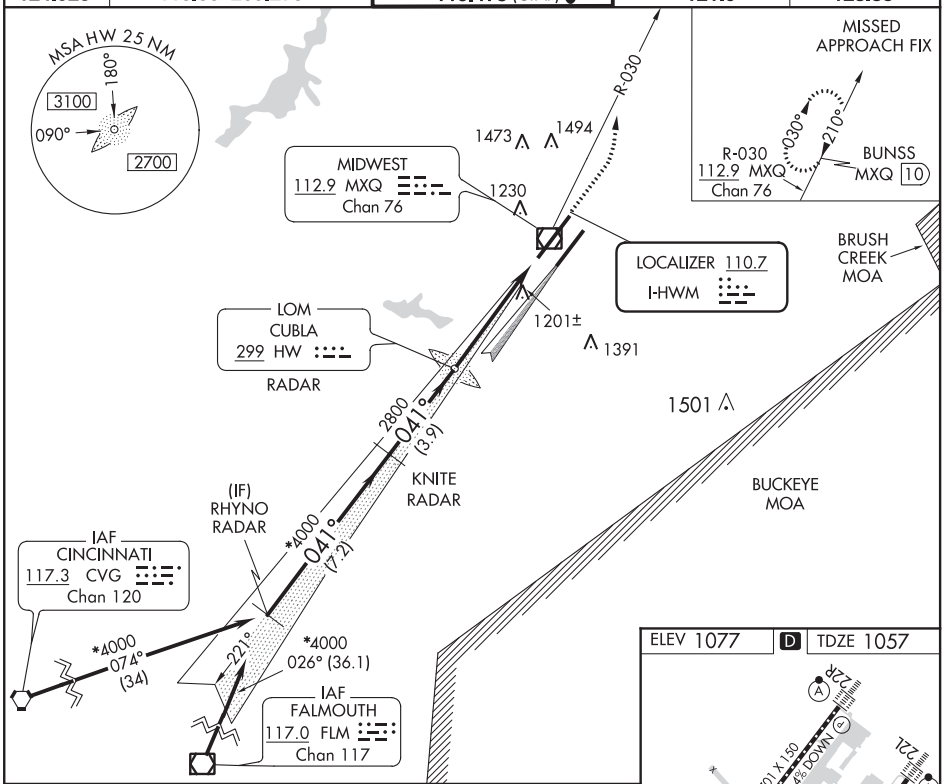
RADAR required to define RHYNO and KNITE. DME required.

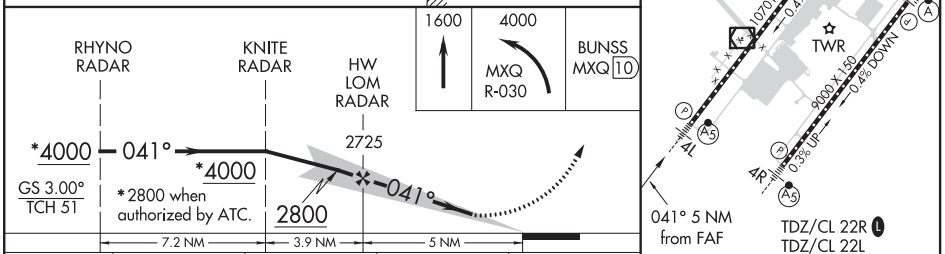
T A Simultaneous approach authorized with Rwy 4R. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting and increase all DA 90 feet and all MDA 100 feet, increase S-LOC 4L Cat C/D visibility to RVR 5500 and increase Circling Cat C/D visibility ½ SM. For inoperative MALSR when using James M. Cox Dayton Intl altimeter setting increase S-ILS 4L all Cats visibility to RVR 5000.

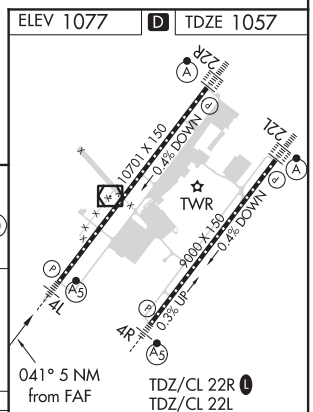
MALSR

MISSED APPROACH: Climb to 1600 then climbing climbing left turn to 4000 via MXQ VOR/DME R-030 to BUNSS/MXQ 10 DME and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85







CATEGORY	A	B	C	D
S-ILS 4L	1257/24 200 (200-½)			
S-LOC 4L	1460/24 403 (400-½)		1460/40 403 (400-¾)	
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

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EC-2, 25 FEB 2021 to 22 APR 2021

LOC/DME I-IYV	APP CRS	Rwy ldg 9000
109.35	041°	TDZE 1046
Chan 30 (Y)		Apt Elev 1077

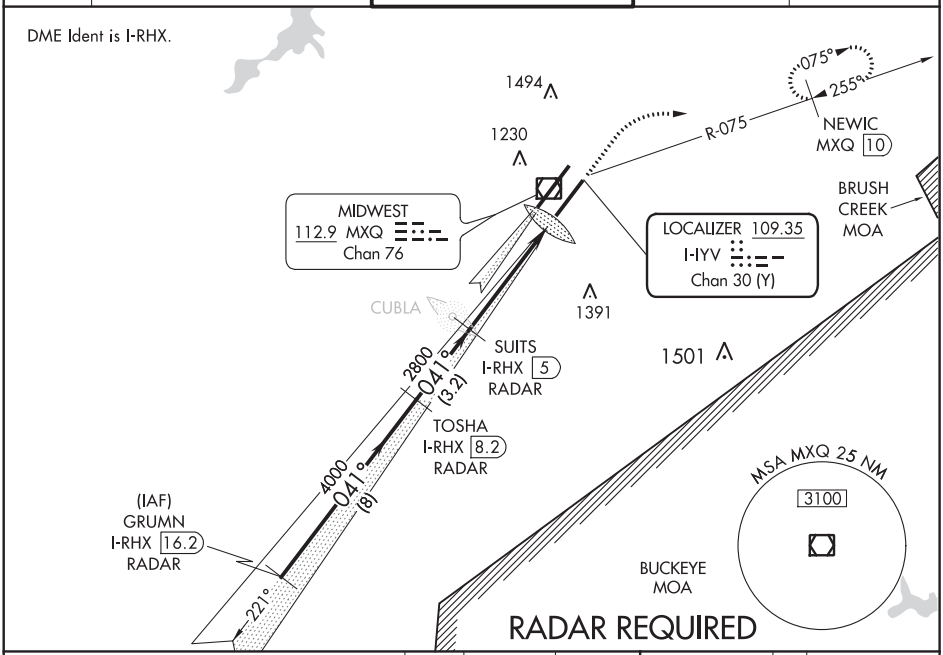
ILS or LOC RWY 4R
WILMINGTON AIR PARK (ILN)

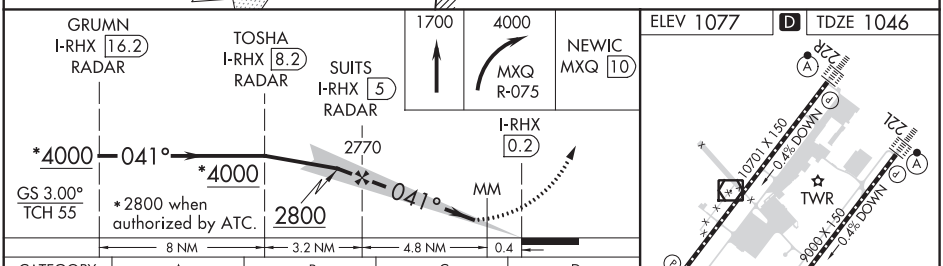
When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting. Obtain approach lights on CTAF. Simultaneous approach authorized with Rwy 4L.
**RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 1700, then climbing right turn to 4000 via MXQ R-075 to NEWIC/MXQ 10 DME and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85





CATEGORY	A	B	C	D
S-ILS 4R	**1246/24 200 (200-½)			
S-LOC 4R	1460/24 414 (400-½)		1460/40 414 (400-¾)	
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)
JAMES M. COX DAYTON INTL ALTIMETER SETTING MINIMUMS				
S-ILS 4R	1336-½ 290 (300-½)			
S-LOC 4R	1560-½ 514 (500-½)		1560-1 514 (500-1)	1560-1¼ 514 (500-1¼)
C CIRCLING	1640-1 563 (600-1)		1960-2¾ 833 (900-2¾)	1960-3 833 (900-3)

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

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WILMINGTON, OHIO

AL-583 (FAA)

21056

ILS or LOC RWY 22R
WILMINGTON AIR PARK (ILN)

LOC I-ILN	APP CRS	Rwy ldg	10701
110.7	223°	TDZE	1077
		Apt Elev	1077

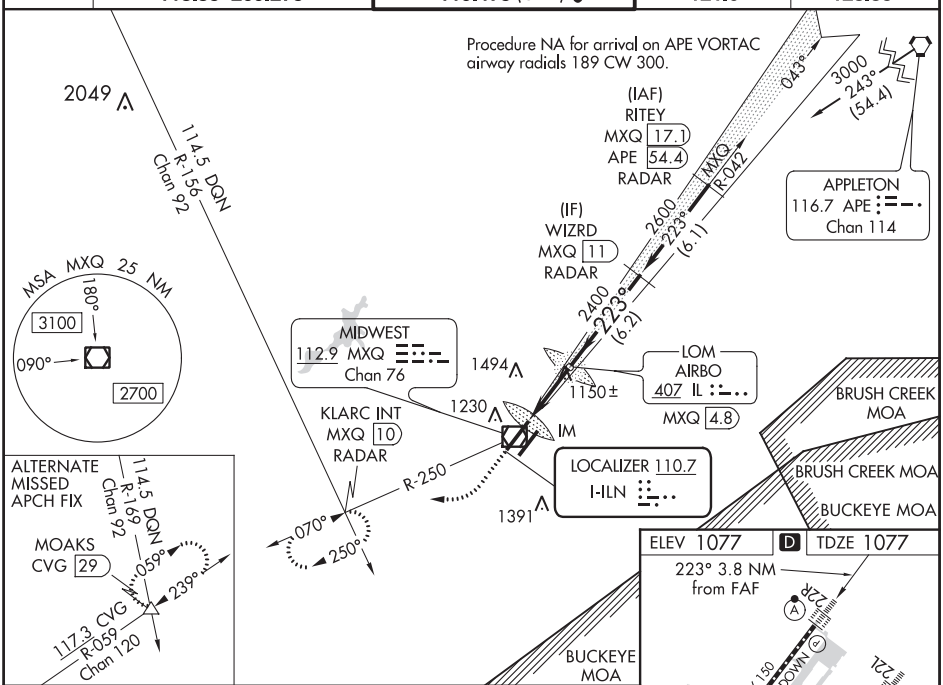
DME or RADAR required for procedure entry.
ADF or DME required for LOC only.

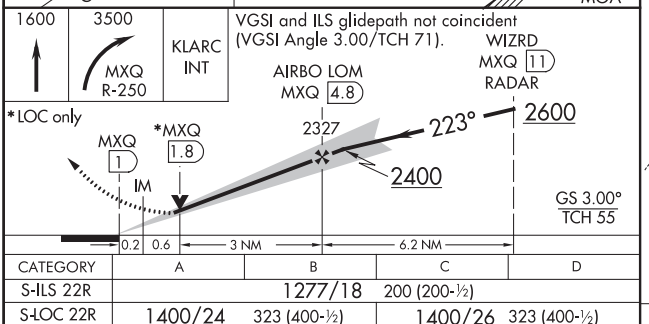
Simultaneous approach authorized. VDP NA with James M Cox Dayton Intl altimeter setting. When local altimeter setting not received, use James M Cox Dayton Intl altimeter setting: increase DA to 1367 feet and all visibilities to RVR 2200; increase all MDA 100 feet and S-LOC 22R visibility Cat C/D to RVR 4000 and Circling Cat C/D ½ SM. For inop ALS when using James M Cox Dayton Intl altimeter setting, increase S-ILS 22R all Cats visibility to RVR 4500 and S-LOC 22R Cats C/D visibility to 1¼ SM. DME from MXQ VOR/DME. Simultaneous reception of I-ILN and MXQ DME required.

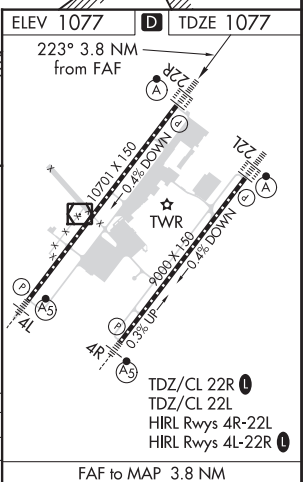
ALSF-2

MISSED APPROACH: Climb to 1600 then climbing right turn to 3500 on MXQ VOR/DME R-250 to KLARC INT/MXQ 10 DME/RADAR and hold, continue climb-in-hold to 3500.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85







CATEGORY	A	B	C	D
S-ILS 22R	1277/18 200 (200-½)			
S-LOC 22R	1400/24 323 (400-½)		1400/26 323 (400-½)	
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)

FAF to MAP 3.8 NM

Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 22L
WILMINGTON AIR PARK (ILN)

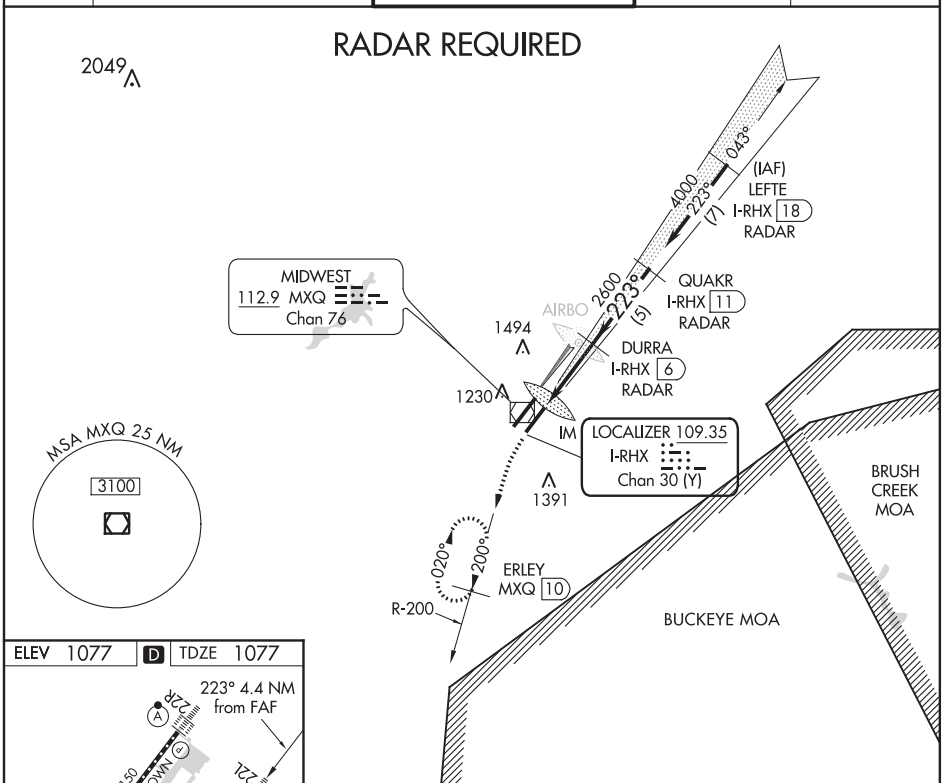
LOC/DME I-RHX	APP CRS	Rwy ldg	9000
109.35	223°	TDZE	1077
Chan 30 (Y)		Apt Elev	1077

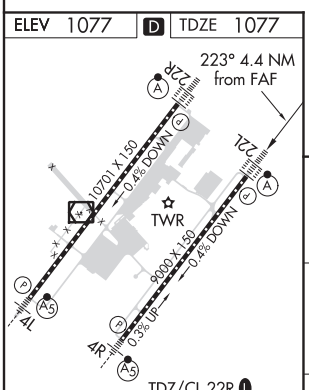
DME required.
Simultaneous approach authorized with Rwy 22R.

ALSF2

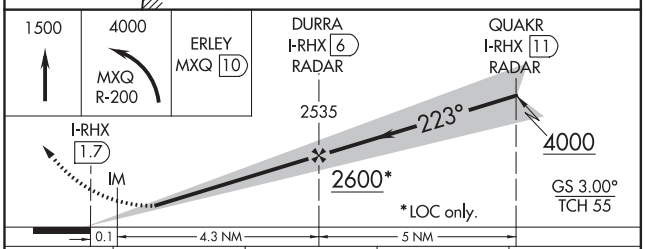
MISSED APPROACH: Climb to 1500, then climbing left turn to 4000 via MXQ R-200 to ERLEY/MXQ 10 DME and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85





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



CATEGORY	A	B	C	D
S-ILS 22L	1277/18 200 (200-½)			
S-LOC 22L	1460/24 383 (400-½)		1460/35 383 (400-1¾)	
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)

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EC-2, 25 FEB 2021 to 22 APR 2021

WILMINGTON, OHIO | AL-583 (FAA) | 21056

LOC I-ILN	APP CRS	Rwy ldg	10701
110.7	223°	TDZE	1077
		Apt Elev	1077

ILS RWY 22R (SA CAT I)
WILMINGTON AIR PARK (ILN)

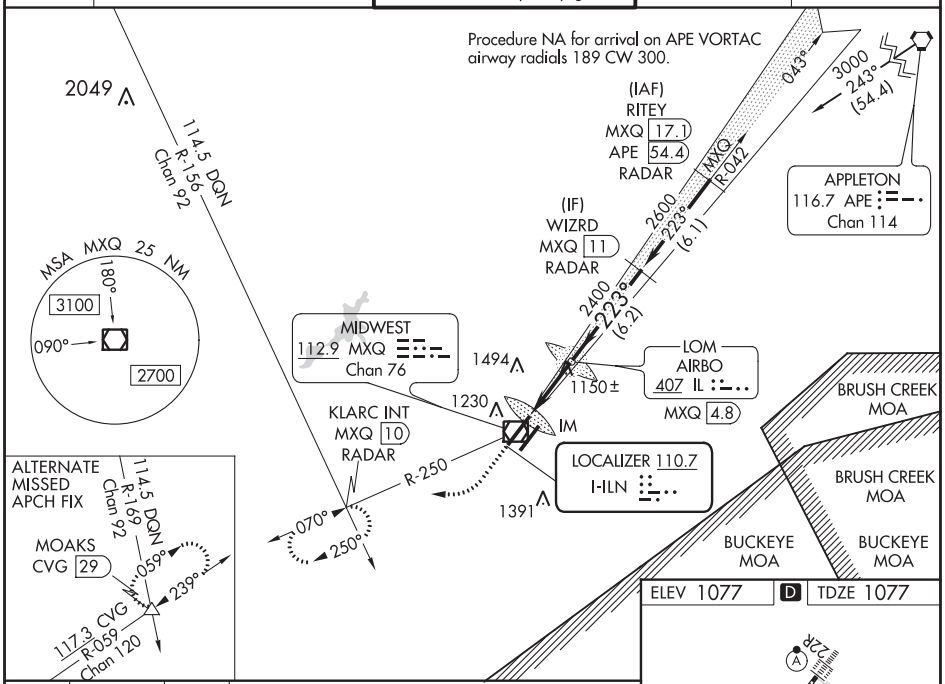
DME or RADAR required for procedure entry.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH. Procedure NA when control tower closed. DME from MXQ VOR/DME. Simultaneous reception of I-ILN and MXQ DME required.

ALSF-2

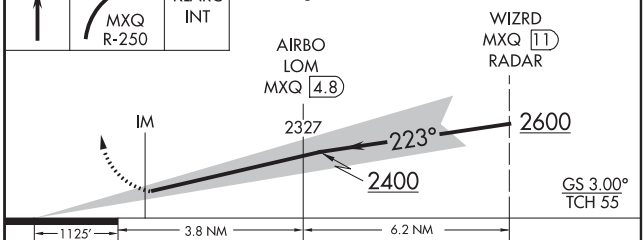
MISSED APPROACH: Climb to1600 then climbing right turn to 3500 on MXQ VOR/DME R-250 to KLARC INT/MXQ 10 DME/RADAR and hold, continue climb-in-hold to 3500.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85



1600	3500	KLARC INT
	MXQ R-250	

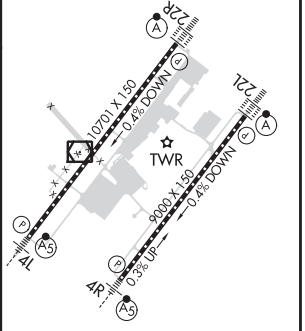
VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
S-ILS 22R	RA 148/14 150 DA 1227			

SA CATEGORY I ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 1077 | D | TDZE 1077



TDZ/CL 22R L
TDZ/CL 22L
HIRL Rwys 4R-22L
HIRL Rwys 4L-22R L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ILS RWY 22L (CAT II)
WILMINGTON AIR PARK (ILN)

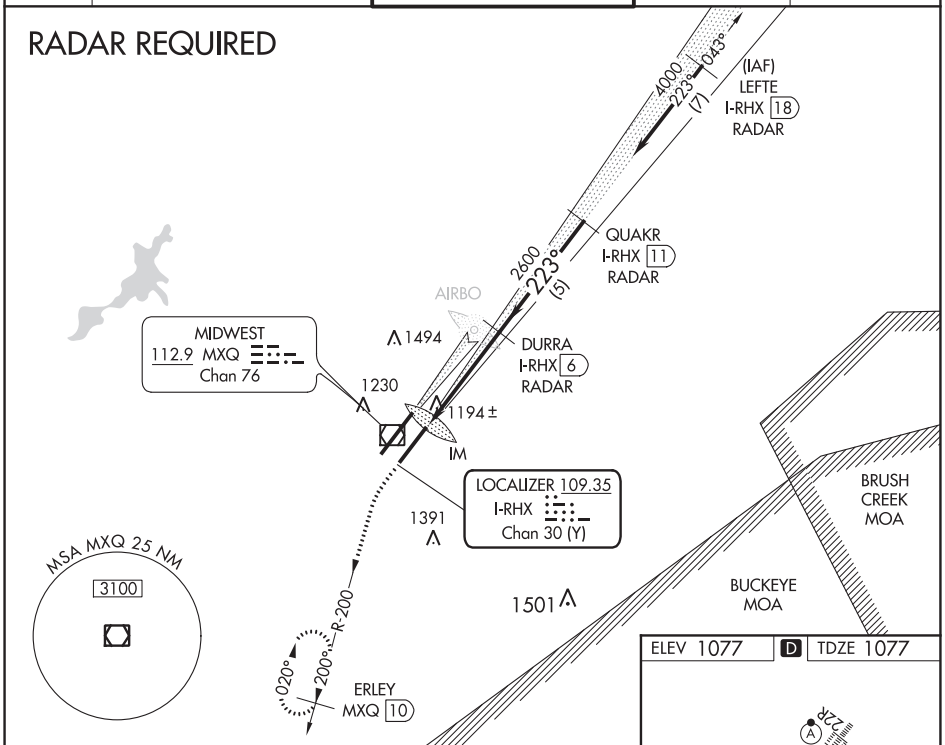
LOC/DME I-RHX	APP CRS	Rwy ldg 9000
109.35	223°	TDZE 1077
Chan 30 (Y)		Apt Elev 1077

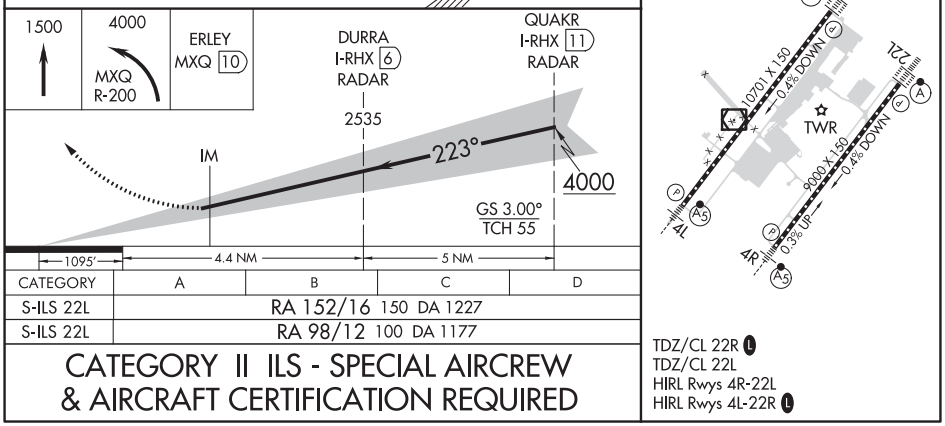
DME required.
Simultaneous approach authorized with Rwy 22R.
Procedure NA when tower closed.

ALSF2

MISSED APPROACH: Climb to 1500, then climbing left turn to 4000 via MXQ R-200 to ERLEY/MXQ 10 DME and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85





CATEGORY	A	B	C	D
S-ILS 22L	RA 152/16 150 DA 1227			
S-ILS 22L	RA 98/12 100 DA 1177			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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WILMINGTON, OHIO | AL-583 (FAA) | 21056

LOC I-ILN	APP CRS	Rwy ldg	10701
110.7	223°	TDZE	1077
		Apt Elev	1077

ILS RWY 22R (CAT II & III)
WILMINGTON AIR PARK (ILN)

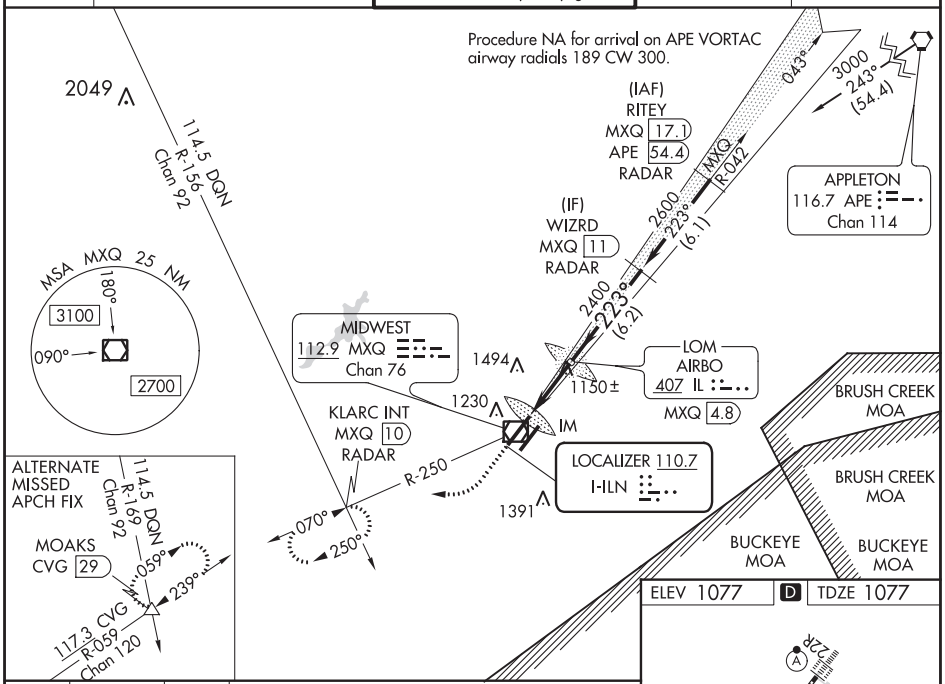
DME or RADAR required for procedure entry.

Simultaneous approach authorized.
Procedure NA when control tower closed.
DME from MXQ VOR/DME.
Simultaneous reception of I-ILN and MXQ DME required.

ALSF-2

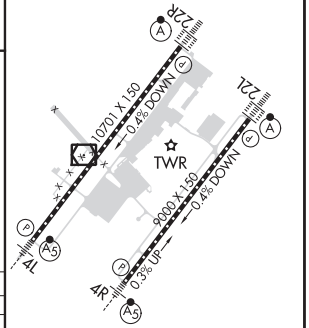
MISSED APPROACH: Climb to1600 then climbing right turn to 3500 on MXQ VOR/DME R-250 to KLARC INT/MXQ 10 DME/RADAR and hold, continue climb-in-hold to 3500.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85



EC-2, 25 FEB 2021 to 22 APR 2021

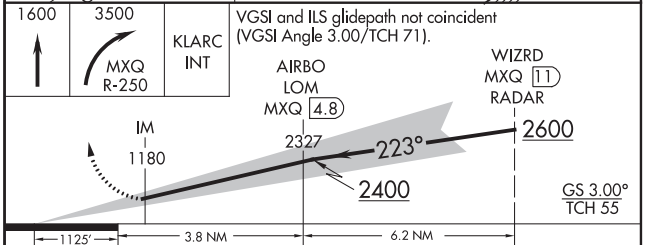
ELEV 1077 | D | TDZE 1077



TDZ/CL 22R L
TDZ/CL 22L
HIRL Rwys 4R-22L
HIRL Rwys 4L-22R L

1600	3500	KLARC INT
	MXQ R-250	

VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 71).



CATEGORY	A	B	C	D
S-ILS 22R	CAT II RA 106/12 100 DA 1177			
S-ILS 22R	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

WILMINGTON, OHIO
Amdt 6 10OCT19

39°26'N-83°48'W

WILMINGTON AIR PARK (ILN)
ILS RWY 22R (CAT II & III)

WAAS CH 62914 W04A	APP CRS 041°	Rwy ldg 10701 TDZE 1057 Apt Elev 1077

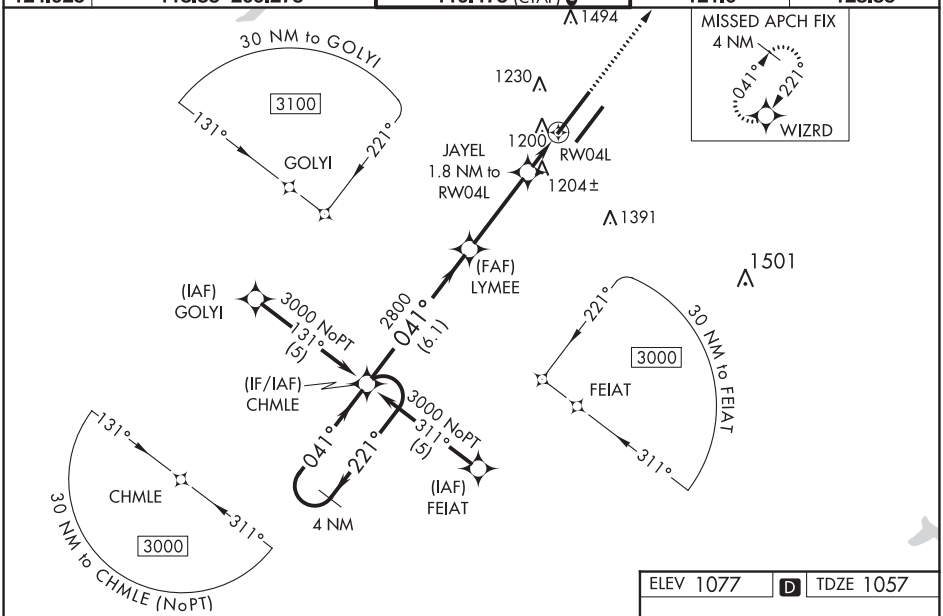
RNAV (GPS) RWY 4L
WILMINGTON AIR PARK (ILN)

For inoperative MALSR when using James M. Cox Dayton Intl altimeter setting, increase LPV visibility to RVR 5000 all Cats. For inop MALSR, increase LNAV Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17 °C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting: increase LPV DA to 1347, LNAV/VNAV DA to 1595 and all visibilities to RVR 5500, increase all MDA 100 feet and LNAV Cat C/D visibility to RVR 5500 and increase Circling Cat C/D visibility ½SM. **RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using James M. Cox Dayton Intl altimeter setting.

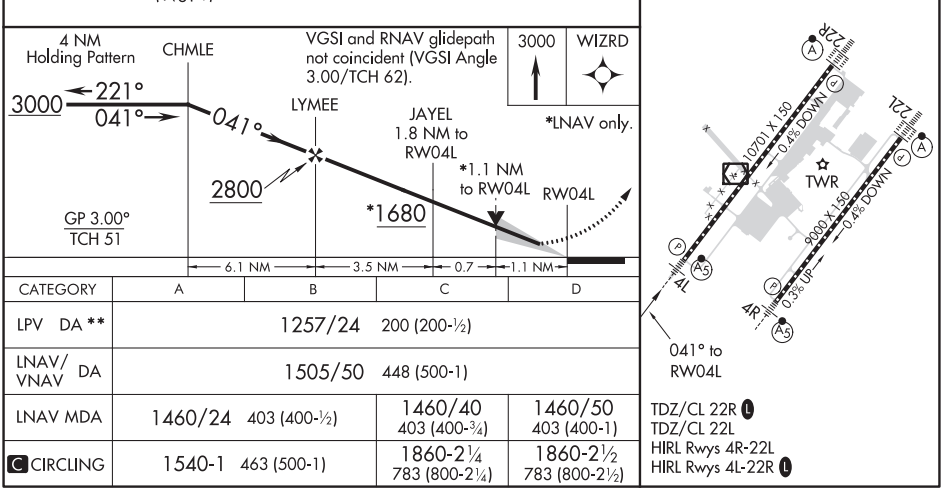
MALSR

MISSED APPROACH: Climb to 3000 direct WIZRD and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER ★	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85



ELEV 1077 D TDZE 1057



CATEGORY	A	B	C	D
LPV DA **	1257/24 200 (200-½)			
LNAV/VNAV DA	1505/50 448 (500-1)			
LNAV MDA	1460/24 403 (400-½)		1460/40 403 (400-¾)	1460/50 403 (400-1)
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)

TDZ/CL 22R L
TDZ/CL 22L
HIRL Rwys 4R-22L
HIRL Rwys 4L-22R L

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EC-2, 25 FEB 2021 to 22 APR 2021

WILMINGTON, OHIO | AL-583 (FAA) | 21056

WAAS CH 40214 W22A	APP CRS 221°	Rwy ldg 10701 TDZE 1077 Apt Elev 1077

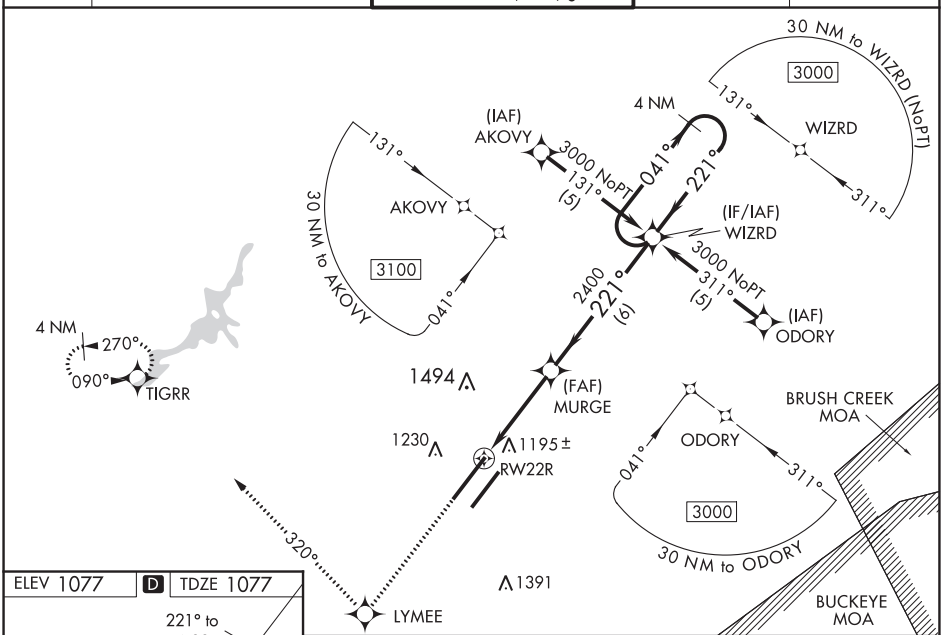
RNAV (GPS) RWY 22R
WILMINGTON AIR PARK (ILN)

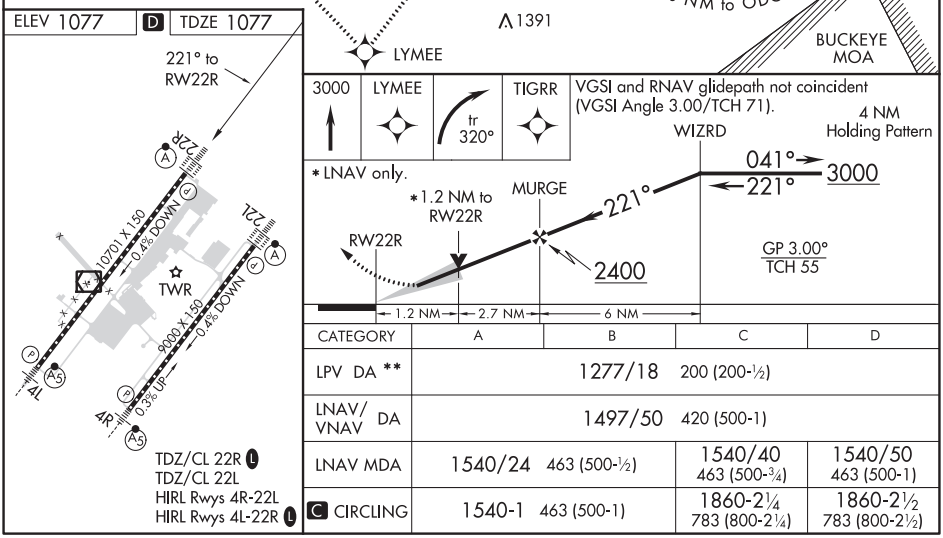
For inoperative ALSF-2 when using James M. Cox Dayton Intl altimeter setting, increase LPV visibility to RVR 5000 all Cats. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use James M. Cox Dayton Intl altimeter setting: increase LPV DA to 1367, LNAV/VNAV DA to 1587 and all visibilities to RVR 5500, increase all MDA 100 feet and LNAV Cat C/D visibility to RVR 5500 and increase Circling Cat C/D visibility ½ SM. VDP and Baro-VNAV NA when using James M. Cox Dayton Intl altimeter setting. ** 2200 RVR when using James M. Cox Dayton Intl altimeter setting.

ALSF-2

MISSED APPROACH: Climb to 3000 direct LYMEE and right turn on track 320° to TIGRR and hold.

D-ATIS	COLUMBUS APP CON	WILMINGTON TOWER *	GND CON	CLNC DEL
124.925	118.85 269.275	119.475 (CTAF) L	121.6	128.85

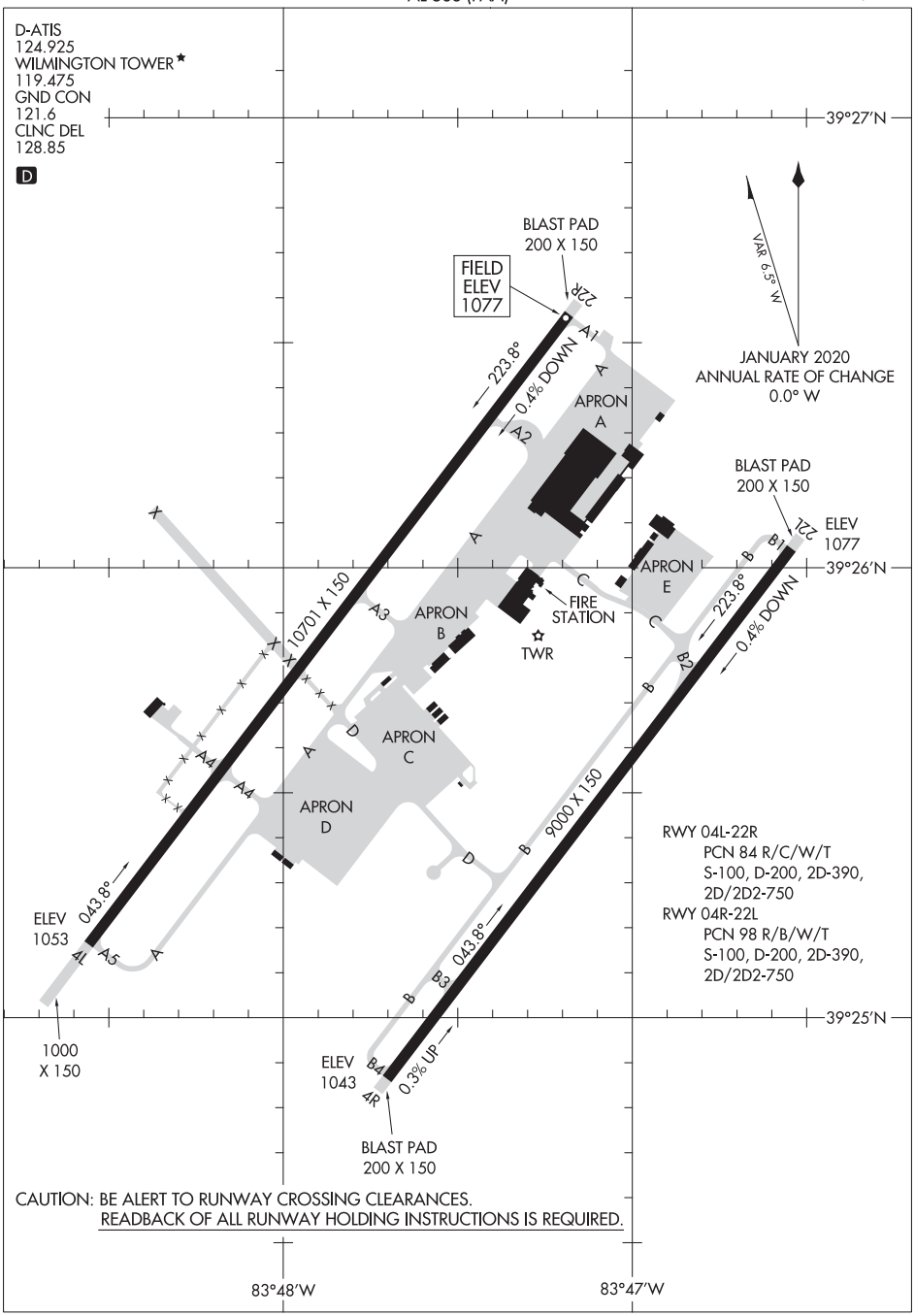




CATEGORY	A	B	C	D
LPV DA **	1277/18 200 (200-½)			
LNAV/VNAV DA	1497/50 420 (500-1)			
LNAV MDA	1540/24 463 (500-½)		1540/40 463 (500-¾)	1540/50 463 (500-1)
C CIRCLING	1540-1 463 (500-1)		1860-2¼ 783 (800-2¼)	1860-2½ 783 (800-2½)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021



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

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WINAMAC, INDIANA | AL-6241 (FAA) | 20198

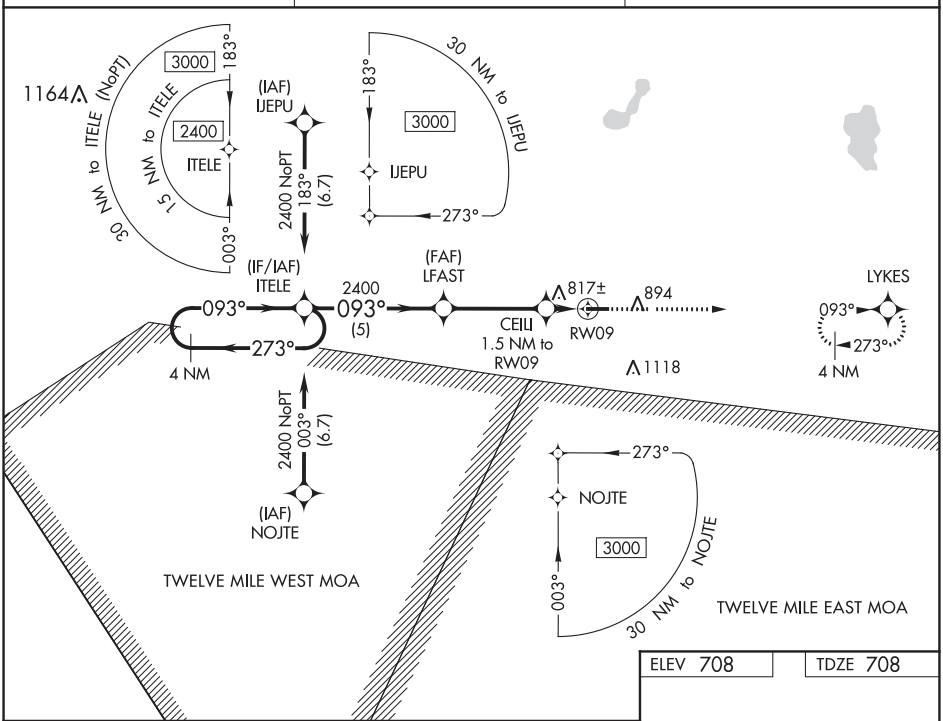
WAAS CH 42638 W09A	APP CRS 093°	Rwy ldg 4201 TDZE 708 Apt Elev 708

RNAV (GPS) RWY 9
ARENS FIELD (RWN)

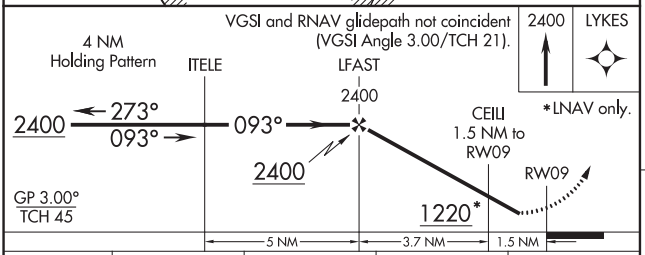
Baro-VNAV NA. Use Knox altimeter setting; when not received, use Rochester altimeter setting and increase all DA/MDA 20 feet and LNAV Cat C visibility ⅛ mile.
DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

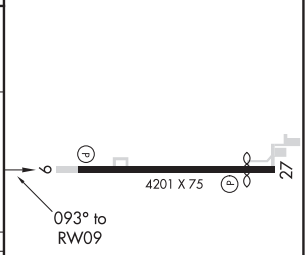
MISSED APPROACH: Climb to 2400 direct LYKES and hold.

OXI AWOS-3	SOUTH BEND APP CON *	UNICOM
135.775	132.05 257.8	122.8 (CTAF) L



ELEV 708	TDZE 708





CATEGORY		A	B	C	D
LPV	DA	995-1 287 (300-1)			NA
LNAV/VNAV	DA	1132-1½ 424 (500-1½)			NA
LNAV	MDA	1120-1 412 (500-1)		1120-1⅛ 412 (500-1⅛)	NA
C CIRCLING		1240-1 532 (600-1)		1480-2¼ 772 (800-2¼)	NA

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

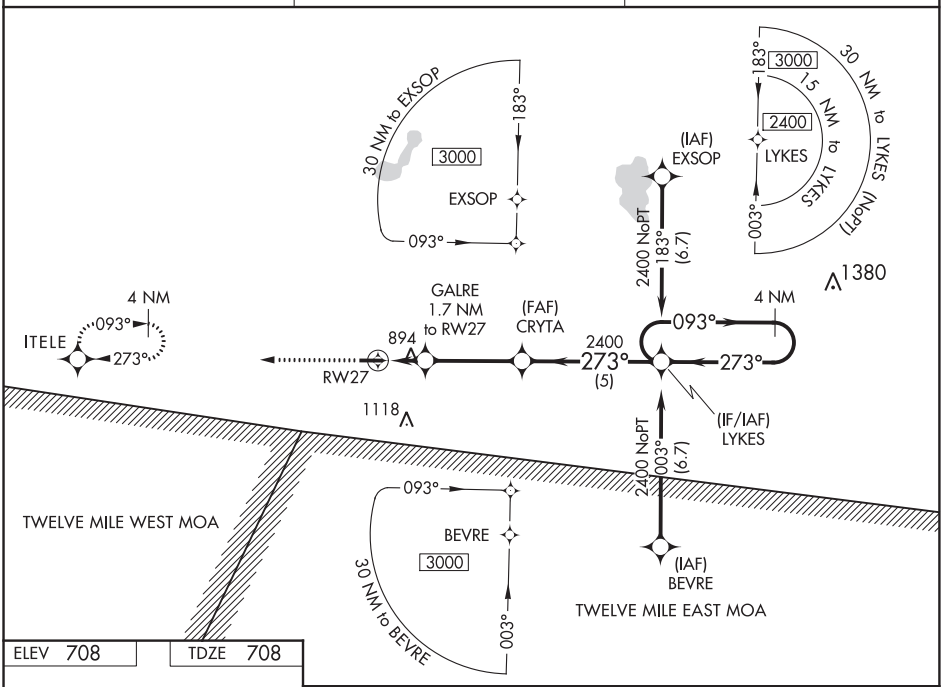
WAAS CH 40238 W27A	APP CRS 273°	Rwy ldg 3641 TDZE 708 Apt Elev 708

RNAV (GPS) RWY 27
ARENS FIELD (RWN)

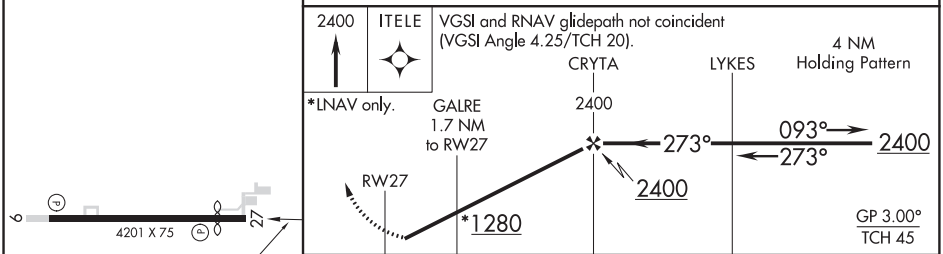
T A NA — Baro-VNAV NA. Use Knox altimeter setting; when not received, use Rochester altimeter setting and increase all DA/MDA 20 feet and LNAV/VNAV all Cats visibility ⅛ mile. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

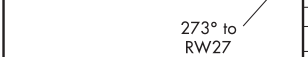
MISSED APPROACH: Climb to 2400 direct ITELE hold.

OXI AWOS-3	SOUTH BEND APP CON *	UNICOM
135.775	132.05 257.8	122.8 (CTAF) L



ELEV 708	TDZE 708





273° to RW27

CATEGORY	A	B	C	D
LPV DA	995-1 287 (300-1)			NA
LNAV/VNAV DA	1224-1¾ 516 (600-1¾)			NA
LNAV MDA	1200-1 492 (500-1)		1200-1⅜ 492 (500-1⅜)	NA
C CIRCLING	1240-1 532 (600-1)		1480-2¼ 772 (800-2¼)	NA

MIRL Rwy 9-27 L
REIL Rwys 9 and 27 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WINAMAC, INDIANA | AL-6241 (FAA) | 20366

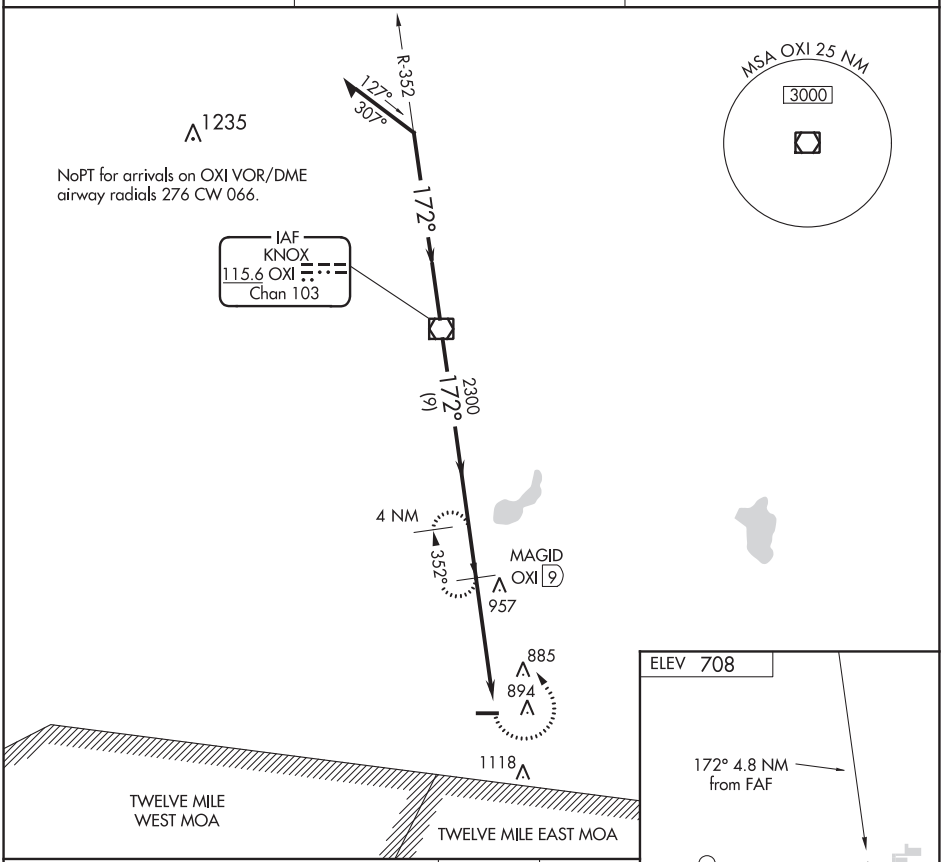
VOR/DME-A
ARENS FIELD (RWN)

VOR/DME OXI	APP CRS	Rwy ldg	N/A
115.6	172°	TDZE	N/A
Chan 103		Apt Elev	708

Use Knox altimeter setting; when not received, use Rochester altimeter setting and increase all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2300 via OXI R-172 to MAGID/OXI 9 DME and hold.

OXI AWOS-3	SOUTH BEND APP CON ★	UNICOM
135.775	132.05 257.8	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1280-1 569 (600-1)		1480-2¼ 772 (800-2¼)	NA

REIL Rwys 9 and 27 L
MIRL Rwy 9-27 L

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EC-2, 25 FEB 2021 to 22 APR 2021

WINAMAC, INDIANA
Amdt 6A 18AUG16

41°06′N-86°37′W

ARENS FIELD (RWN)
VOR/DME-A

RNAV (GPS) RWY 8
RANDOLPH COUNTY (I22)

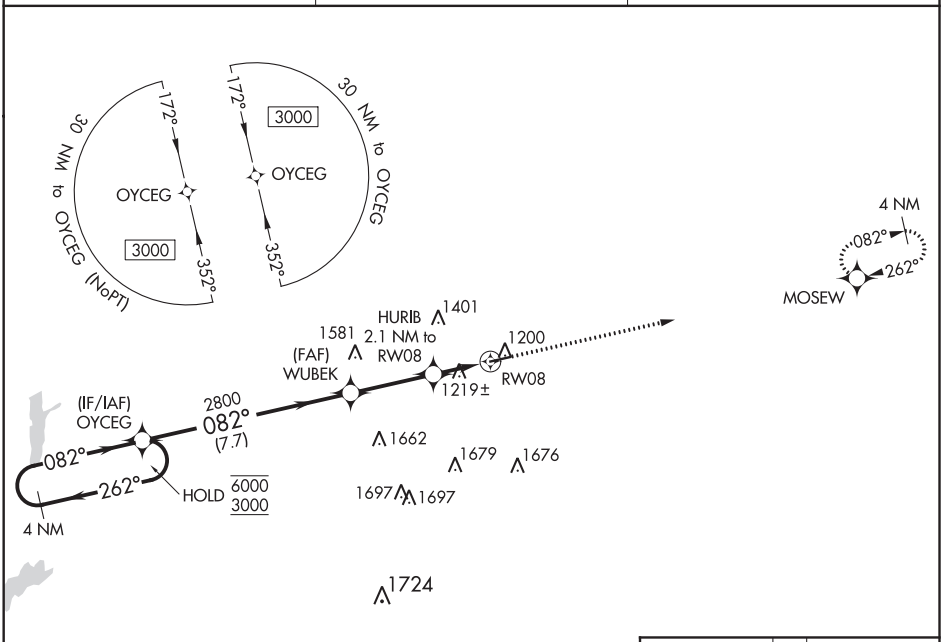
WAAS CH 90420 W08A	APP CRS 082°	Rwy ldg 4300 TDZE 1121 Apt Elev 1123

RNP APCH.

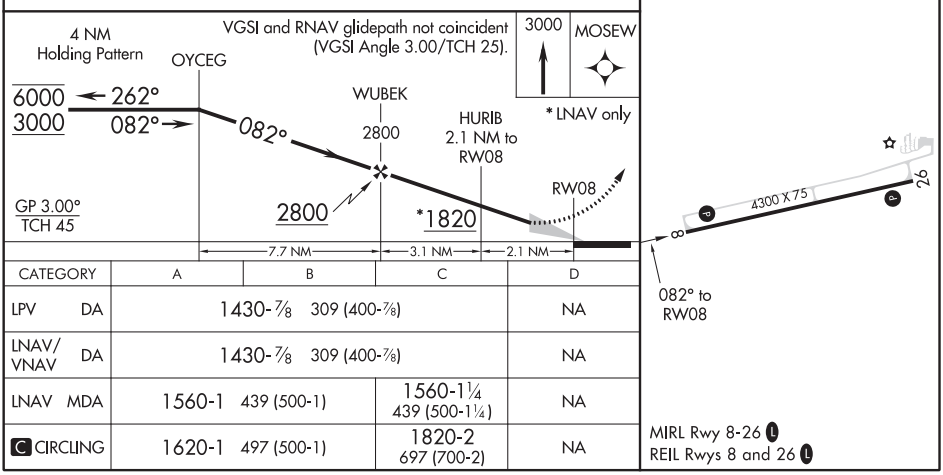
T
A NA Baro-VNAV NA.

MISSED APPROACH: Climb to 3000 direct MOSEW and hold.

VES AWOS-3	COLUMBUS APP CON	UNICOM
125.9	118.425 352.05	123.0 (CTAF) L



ELEV 1123 TDZE 1121



CATEGORY	A	B	C	D
LPV DA	1430-⅞ 309 (400-⅞)			NA
LNAV/VNAV DA	1430-⅞ 309 (400-⅞)			NA
LNAV MDA	1560-1 439 (500-1)		1560-1¼ 439 (500-1¼)	NA
C CIRCLING	1620-1 497 (500-1)		1820-2 697 (700-2)	NA

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WINCHESTER, INDIANA | AL-6189 (FAA) | 19283

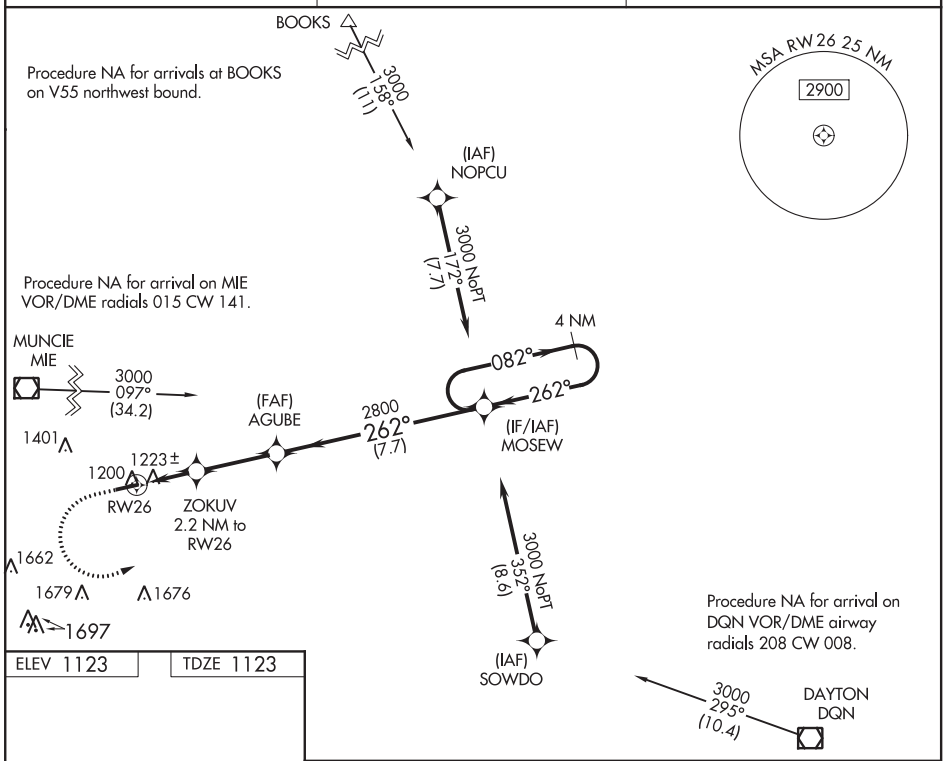
WAAS CH 78120 W26A	APP CRS 262°	Rwy ldg 4300 TDZE 1123 Apt Elev 1123

RNAV (GPS) RWY 26
RANDOLPH COUNTY (I22)

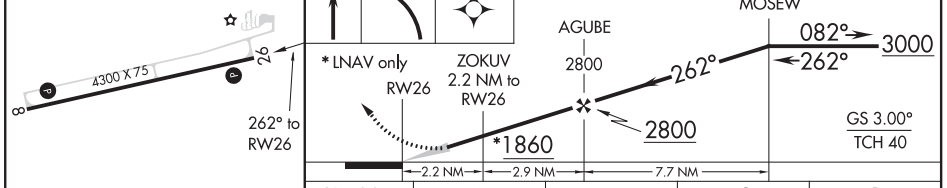
T A NA — Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Versailles altimeter setting; when not received, use Muncie altimeter setting and increase all DA/MDA 20 feet and increase LPV visibility all Cats, LNAV/VNAV visibility all Cats and LNAV Cat C visibility ⅛ mile.

MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct MOSEW and hold.

VES AWOS-3	COLUMBUS APP CON	UNICOM
125.9	118.425 352.05	123.0 (CTAF) L



ELEV 1123	TDZE 1123



CATEGORY	A	B	C	D
LPV DA	1495-1¼ 372 (400-1¼)			NA
LNAV/VNAV DA	1432-1 309 (400-1)			NA
LNAV MDA	1540-1 417 (500-1)		1540-1¼ 417 (500-1¼)	NA
C CIRCLING	1620-1 497 (500-1)		1820-2 697 (700-2)	NA

REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

WINCHESTER, INDIANA
Amdt 1 05MAR15

40°10′N-84°56′W

RANDOLPH COUNTY (I22)
RNAV (GPS) RWY 26

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME DQN 114.5 Chan 92	APP CRS 291°	Rwy ldg N/A TDZE N/A Apt Elev 1123

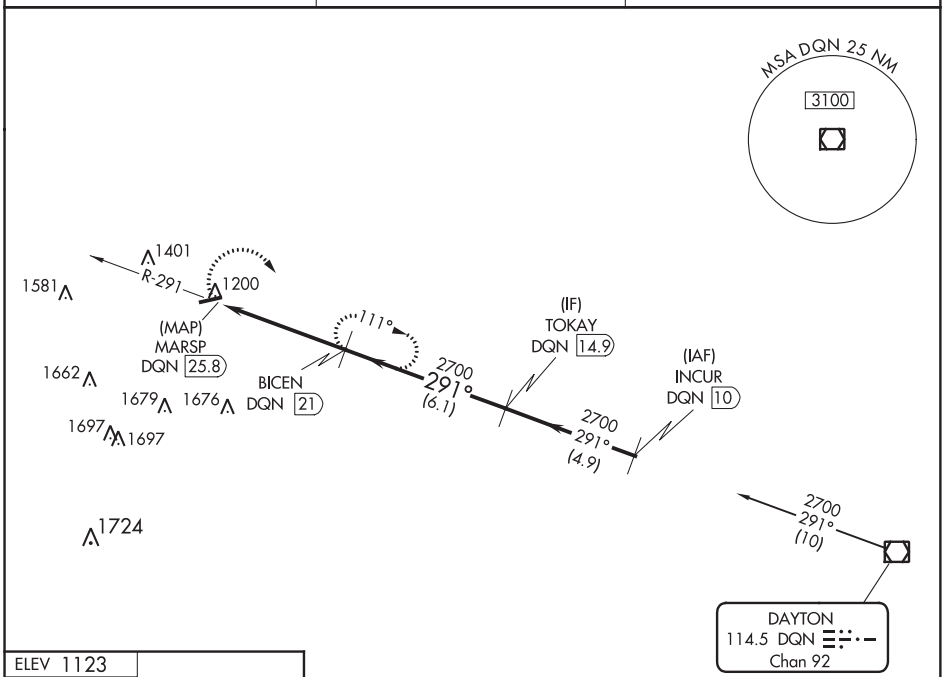
VOR-A
RANDOLPH COUNTY (I22)

DME required.

NA

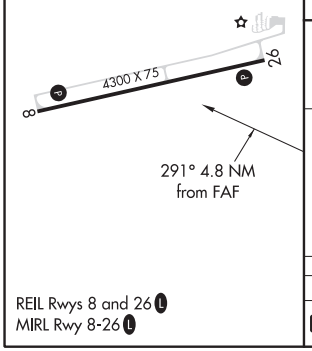
MISSED APPROACH: Climbing right turn to 2700 on DQN VOR/DME R-291 to BICEN/21 DME and hold.

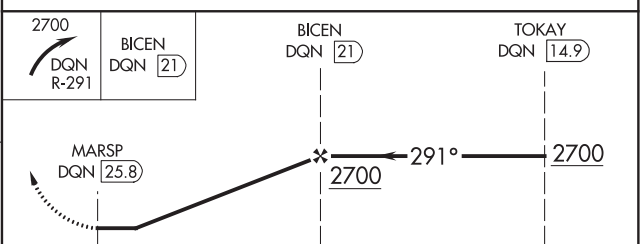
VES AWOS-3	COLUMBUS APP CON	UNICOM
125.9	118.425 352.05	123.0 (CTAF) L



Procedure NA for arrival on DQN VOR/DME airway radials 234 CW 329.

ELEV 1123





REIL Rwys 8 and 26 L
MIRL Rwy 8-26 L

CATEGORY	A	B	C	D
C CIRCLING	1700-1	577 (600-1)	1820-2 697 (700-2)	NA

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WOODSFIELD, OHIO | AL-5746 (FAA) | 20198

RNAV (GPS) RWY 25

MONROE COUNTY (4G5)

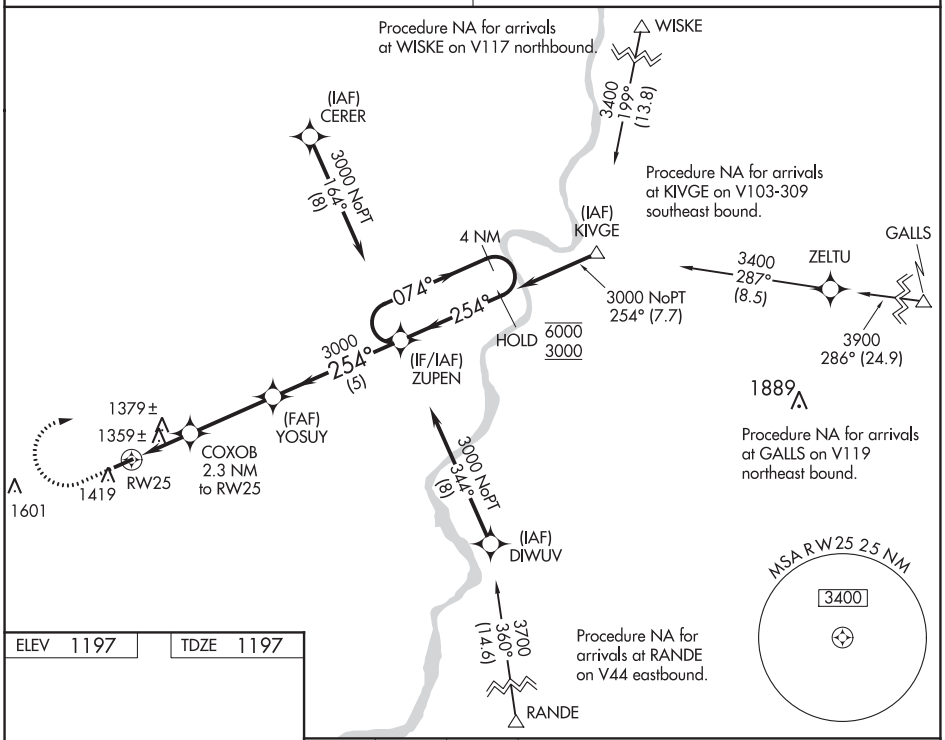
WAAS CH 65833 W25A	APP CRS 254°	Rwy ldg 3805	TDZE 1197	Apt Elev 1197

RNP APCH.

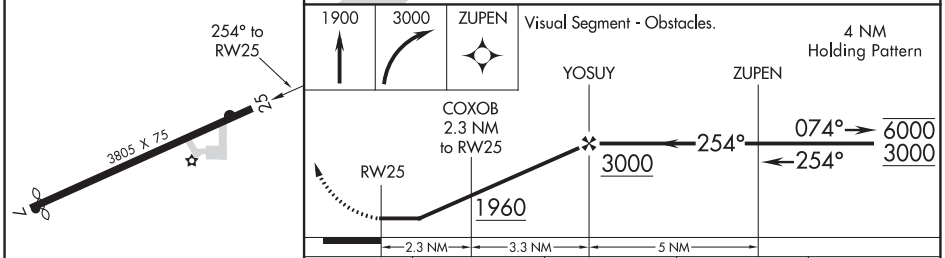
T A NA Rwy 25 helicopter visibility reduction below 1 SM NA. Use Wheeling Ohio Co, WV altimeter setting; when not received use Parkersburg, WV altimeter setting and increase all MDA 60 feet; increase LP Cat C, LNAV Cat C and Circling Cat C visibility ¼ SM. Procedure NA at night.

MISSED APPROACH: Climb to 1900 then climbing right turn to 3000 direct ZUPEN and hold.

CLEVELAND CENTER	UNICOM
126.95 239.3	122.8 (CTAF) L



ELEV 1197	TDZE 1197



CATEGORY	A	B	C	D
LP MDA	1700-1	503 (600-1)	1700-1⅜ 503 (600-1⅜)	NA
LNAV MDA	1720-1	523 (600-1)	1720-1½ 523 (600-1½)	NA
C CIRCLING	1860-1	663 (700-1)	1860-1¾ 663 (700-1¾)	NA

REIL Rwy 25 L
MIRL Rwy 7-25 L

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EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME RWY 25
MONROE COUNTY (4G5)

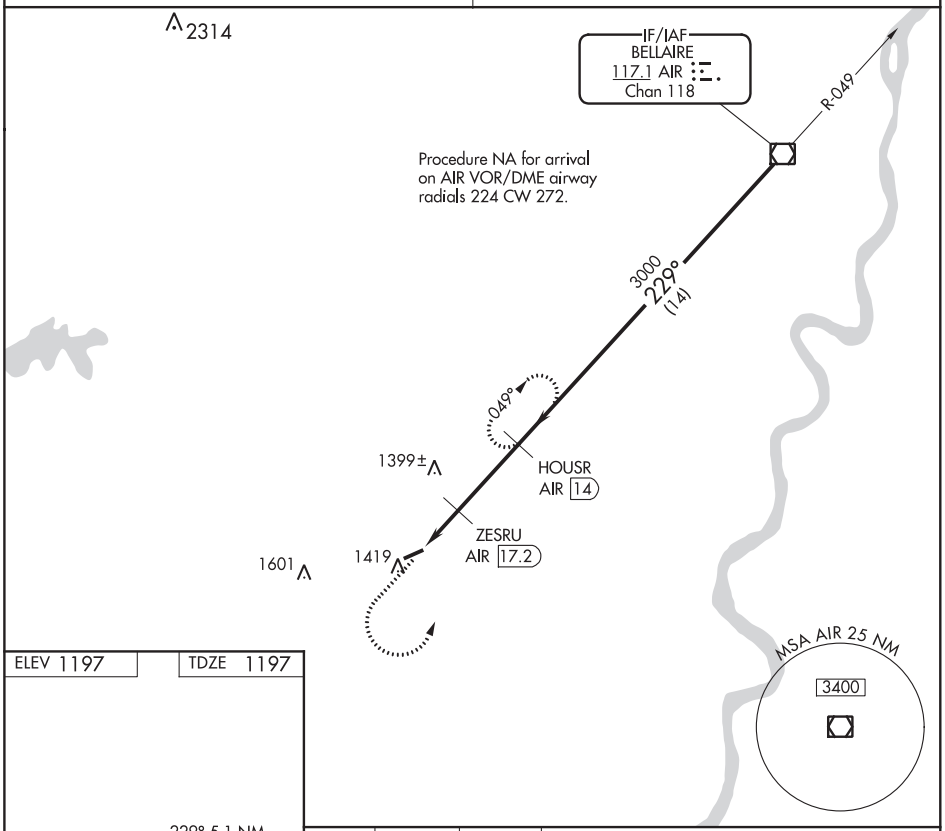
VOR/DME AIR	APP CRS	Rwy ldg	3805
117.1	229°	TDZE	1197
Chan 118		Apt Elev	1197

Use Wheeling Ohio Co, WV altimeter setting; when not received use Parkersburg, WV altimeter setting and increase all MDA 60 feet; increase S-25 Cat C visibility ⅛ mile and Circling Cat C visibility ¼ mile. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

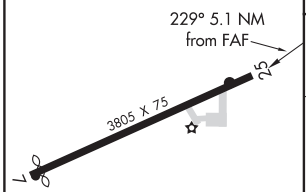
NA

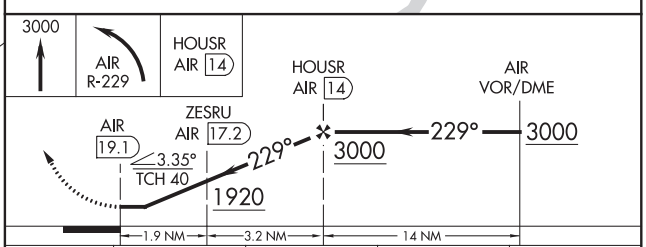
MISSED APPROACH: Climb to 3000 then left turn on AIR VOR/DME R-229 to HOUSR/AIR 14 DME and hold.

CLEVELAND CENTER	UNICOM
126.95 239.3	122.8 (CTAF) L



ELEV 1197 TDZE 1197





CATEGORY	A	B	C	D
S-25	1740-1 543 (600-1)		1740-1⅝ 543 (600-1⅝)	NA
C CIRCLING	1860-1 663 (700-1)		1860-1¾ 663 (700-1¾)	NA

REIL Rwy 25 L
MIRL Rwy 7-25 L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WOOSTER, OHIO | AL-5663 (FAA) | 20310

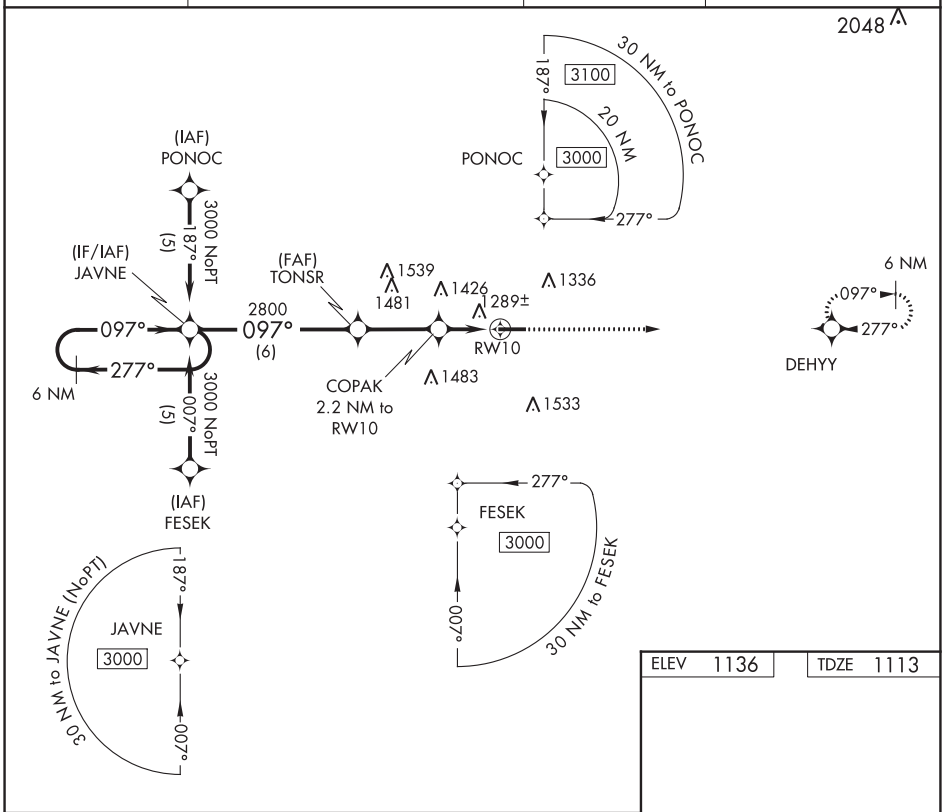
APP CRS	Rwy ldg	5189
097°	TDZE	1113
	Apt Elev	1136

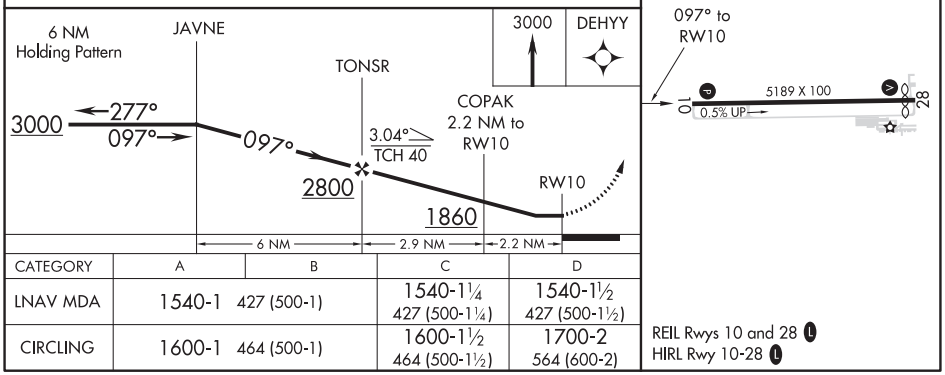
RNAV (GPS) RWY 10
WAYNE COUNTY (BJJ)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 3000 direct DEHYY and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
118.075	118.6 371.875	121.75	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1540-1 427 (500-1)		1540-1¼ 427 (500-1¼)	1540-1½ 427 (500-1½)
CIRCLING	1600-1 464 (500-1)		1600-1½ 464 (500-1½)	1700-2 564 (600-2)

REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

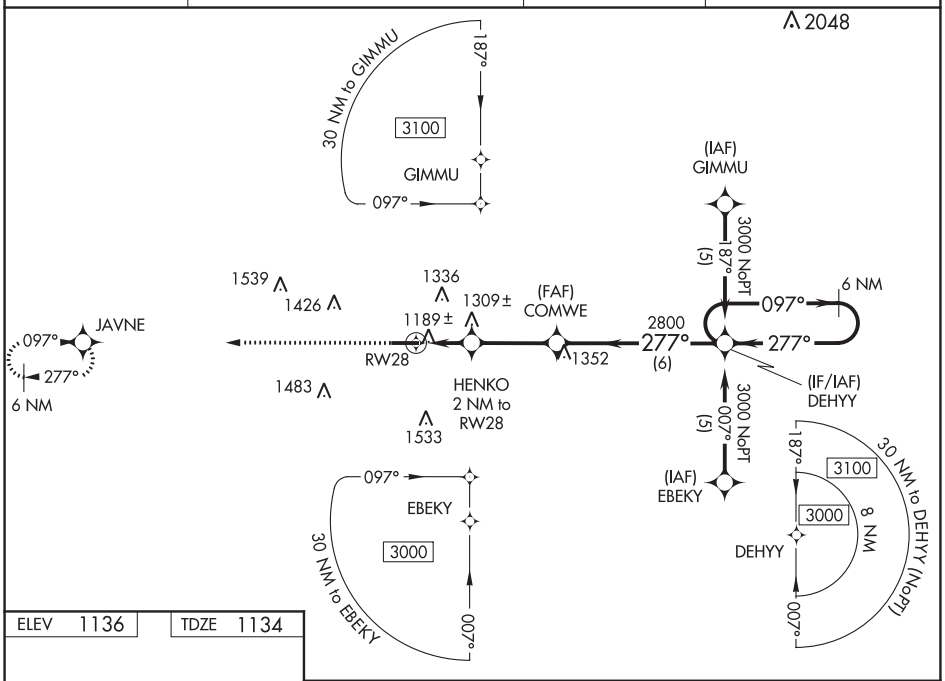
WAAS CH 82215 W28A	APP CRS 277°	Rwy ldg 4971 TDZE 1134 Apt Elev 1136

RNAV (GPS) RWY 28
WAYNE COUNTY (BJJ)

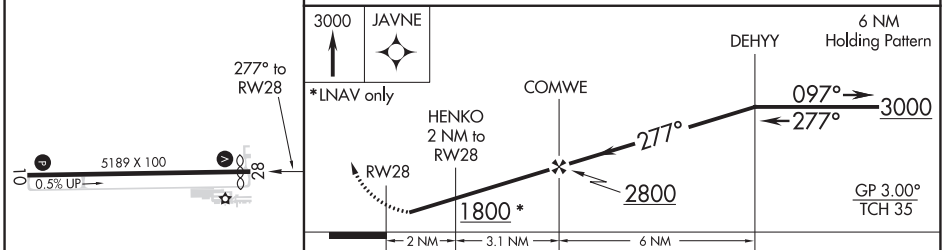
Baro-VNAV NA when using Akron-Canton Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all DA/MDA 60 feet; increase LPV all Cats visibility ¼ mile. Increase LNAV/VNAV all Cats visibility and LNAV Cat C/D visibility ⅛ mile.

MISSED APPROACH: Climb to 3000 direct JAVNE and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
118.075	118.6 371.875	121.75	122.8 (CTAF) L



ELEV 1136	TDZE 1134



CATEGORY	A	B	C	D
LPV DA	1398-1 264 (300-1)			
LNAV/VNAV DA	1589-1⅝ 455 (500-1⅝)			
LNAV MDA	1560-1 426 (500-1)		1560-1¼ 426 (500-1¼)	
CIRCLING	1600-1 464 (500-1)		1600-1½ 464 (500-1½)	1700-2 564 (600-2)

REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

WOOSTER, OHIO | AL-5663 (FAA) | 20310

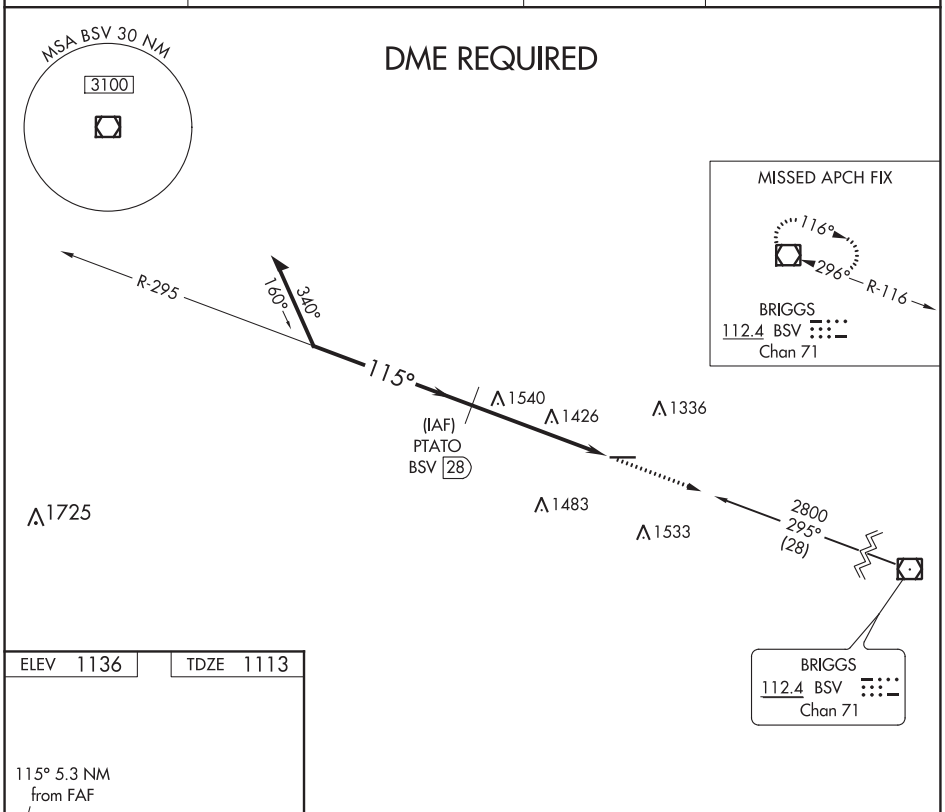
VOR RWY 10
WAYNE COUNTY (BJJ)

VOR/DME BSV	APP CRS	Rwy ldg	5189
112.4	115°	TDZE	1113
Chan 71		Apt Elev	1136

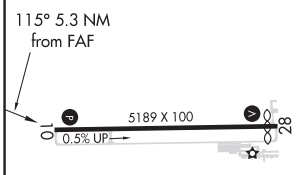
DME required. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 60 feet; increase S-10 Cat C/D and Circling Cat C/D visibilities ¼ mile. Rwy 10 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2800 direct BSV VOR/DME and hold.

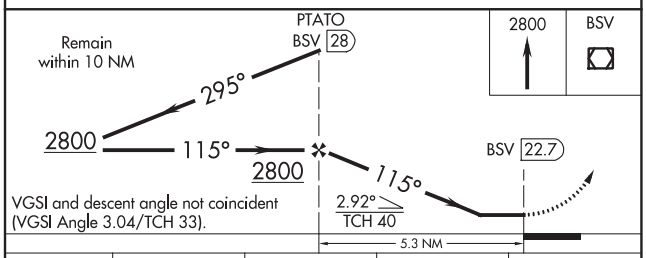
ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
118.075	118.6 371.875	121.75	122.8 (CTAF) L



ELEV 1136 | TDZE 1113



REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L



VGSI and descent angle not coincident (VGSI Angle 3.04/TCH 33).

FAF to MAP 5.3 NM					
Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

CATEGORY	A	B	C	D
S-10	1840-1 727 (800-1)	1840-1¼ 727 (800-1¼)	1840-2 727 (800-2)	1840-2¼ 727 (800-2¼)
CIRCLING	1840-1 704 (800-1)	1840-1¼ 704 (800-1¼)	1840-2 704 (800-2)	1840-2¼ 704 (800-2¼)

WOOSTER, OHIO
Amdt 1B 01FEB18

40°52'N-81°53'W

WAYNE COUNTY (BJJ)
VOR RWY 10

EC-2, 25 FEB 2021 to 22 APR 2021

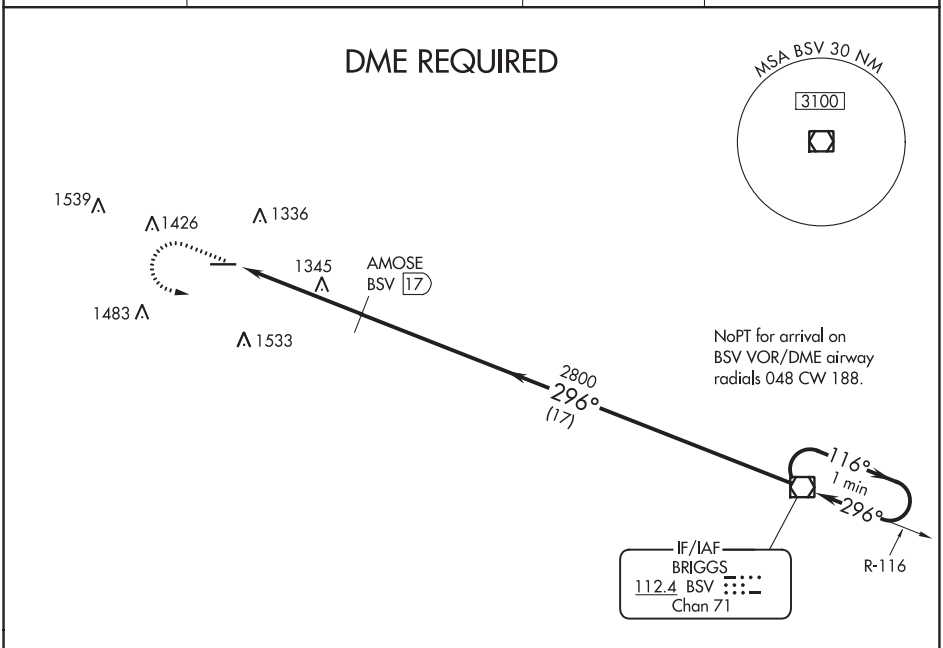
VOR RWY 28
WAYNE COUNTY (BJJ)

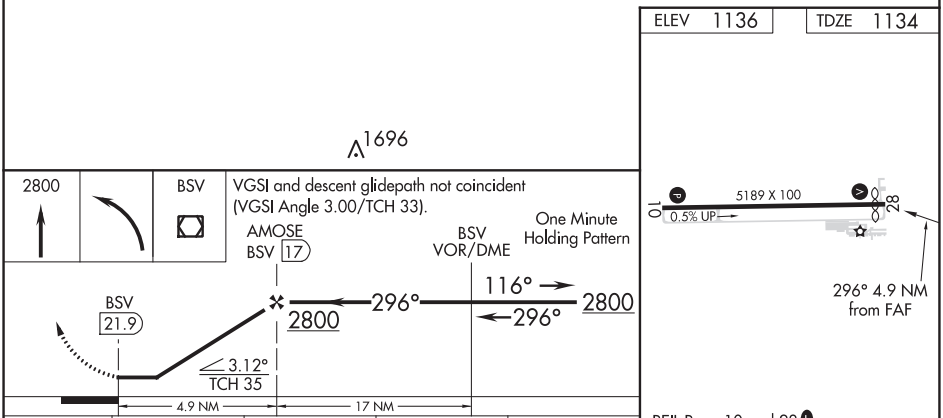
VOR/DME BSV 112.4 Chan 71	APP CRS 296°	Rwy ldg 4971 TDZE 1134 Apt Elev 1136

DME required. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Akron-Canton Rgnl altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 2800 then left turn direct BSV VOR/DME and hold.

ASOS	CLEVELAND APP CON ★	CLNC DEL	UNICOM
118.075	118.6 371.875	121.75	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-28	1660-1 526 (600-1)	1660-1¼ 526 (600-1¼)	1660-1½ 526 (600-1½)	1660-1¾ 526 (600-1¾)
CIRCLING	1660-1 524 (600-1)	1660-1¼ 524 (600-1¼)	1660-1½ 524 (600-1½)	1700-2 564 (600-2)

REIL Rwys 10 and 28 L
HIRL Rwy 10-28 L

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

17173

DAYTON, OHIO

ILS or LOC RWY 5L

LOC I-FAE	APCH CRS	Rwy ldg / TDZE / Arpt Elev
109.7	053°	12,600 / 803 / 823

AL-108 [USAF]

WRIGHT-PATTERSON AFB (KFFO)

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.

ALSF-1

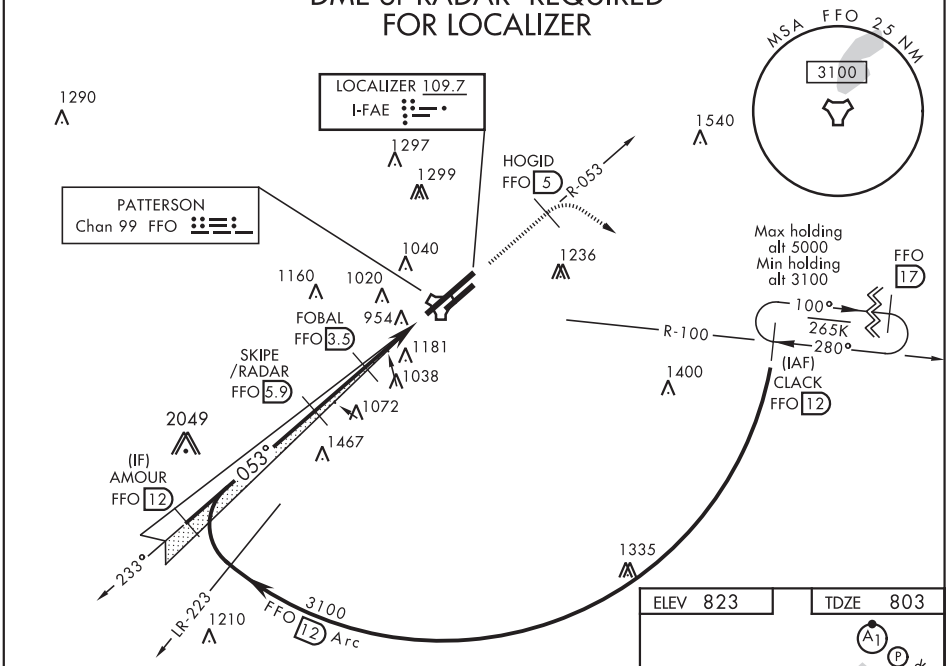
†MISSED APPROACH: Climb to 2000 via FFO R-053 at 5 DME, turn right direct CLACK climbing to 3100 and hold.

ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

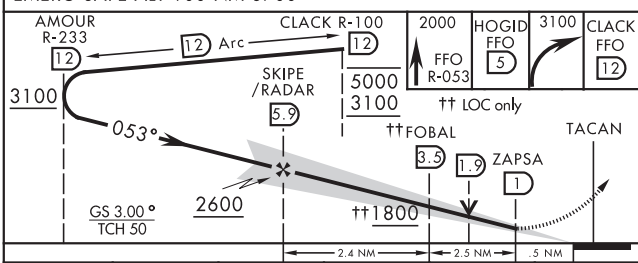
*** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

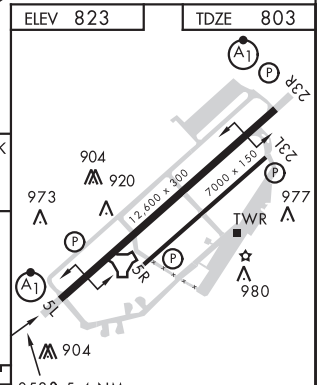
†Missed approach requires use of RNAV or ATC radar monitoring.

DME or RADAR REQUIRED FOR LOCALIZER



EMERG SAFE ALT 100 NM 3700





CATEGORY	A	B	C	D	E
S-ILS 5L *	1003/24 200 (200-½)				
S-LOC 5L **	1280/24 476 (500-½)		1280/50 476 (500-1)		
C CIRCLING ***	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)	1620-2¾ 797 (800-2¾)

FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

DAYTON, OHIO
Amdt 4 05JAN17

39° 50′N-84° 03′W

WRIGHT-PATTERSON AFB (KFFO)

ILS or LOC RWY 5L

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

ILS or LOC RWY 23R

WRIGHT-PATTERSON AFB (KFFO)

LOC I-FFO	APCH CRS	Rwy ldg / THRE / Arpt Elev
109.7	233°	12,600 / 823 / 823

AL-108 [USAF]

*When ALS inop, increase RVR to 40 and vis to ¾ mile.
**When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.

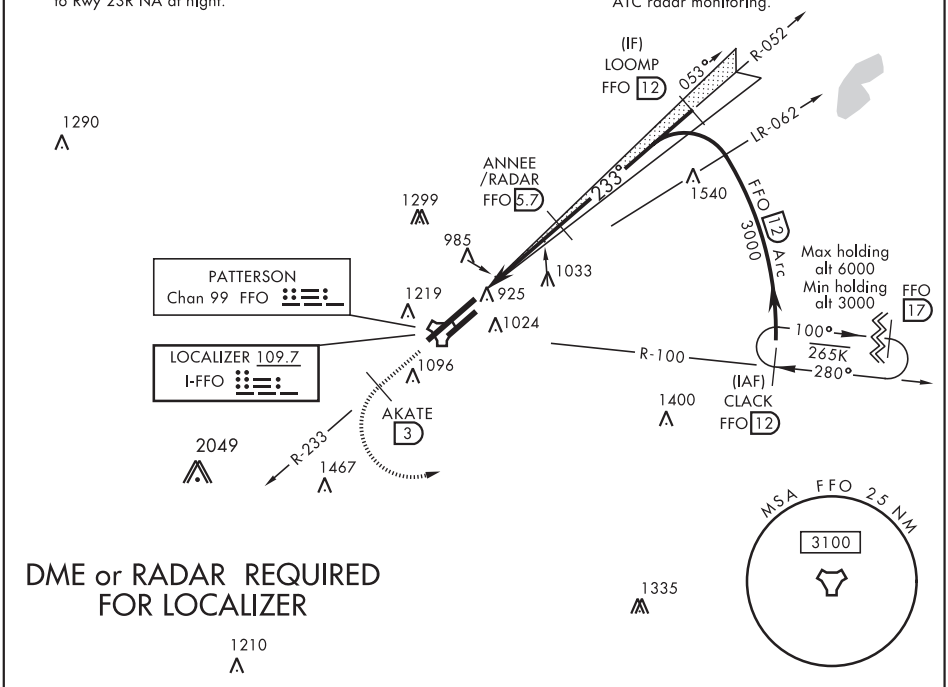
ALSF-1

† MISSED APPROACH: Climb via FFO R-233 to 2000, at 3 DME turn left direct CLACK to 3000 and hold.

ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

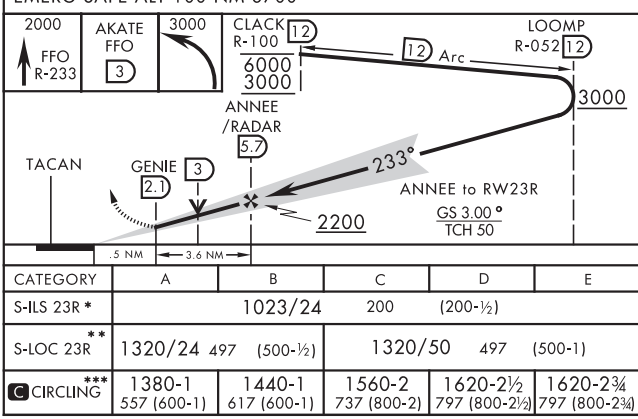
*** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

† Missed approach requires use of RNAV or ATC radar monitoring.



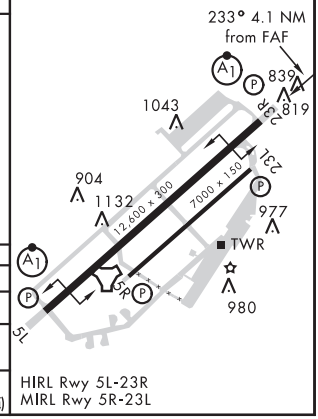
DME or RADAR REQUIRED FOR LOCALIZER

EMERG SAFE ALT 100 NM 3700



CATEGORY	A	B	C	D	E
S-ILS 23R *	1023/24 200 (200-½)				
S-LOC 23R **	1320/24 497 (500-½)		1320/50 497 (500-1)		
C CIRCLING ***	1380-1 557 (600-1)	1440-1 617 (600-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)	1620-2¾ 797 (800-2¾)

ELEV 823 THRE 823



HIRL Rwy 5L-23R
MIRL Rwy 5R-23L

DAYTON, OHIO
Amdt 6 30APR15

39° 50′N-84° 03′W

WRIGHT-PATTERSON AFB (KFFO)

ILS or LOC RWY 23R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

19171

DAYTON, OHIO

RNAV (GPS) RWY 5L

APCH CRS	Rwy ldg	12,600
053°	TDZE	803
	Arpt Elev	823

AL-108 (USAF)

WRIGHT PATTERSON AFB (KFFO)

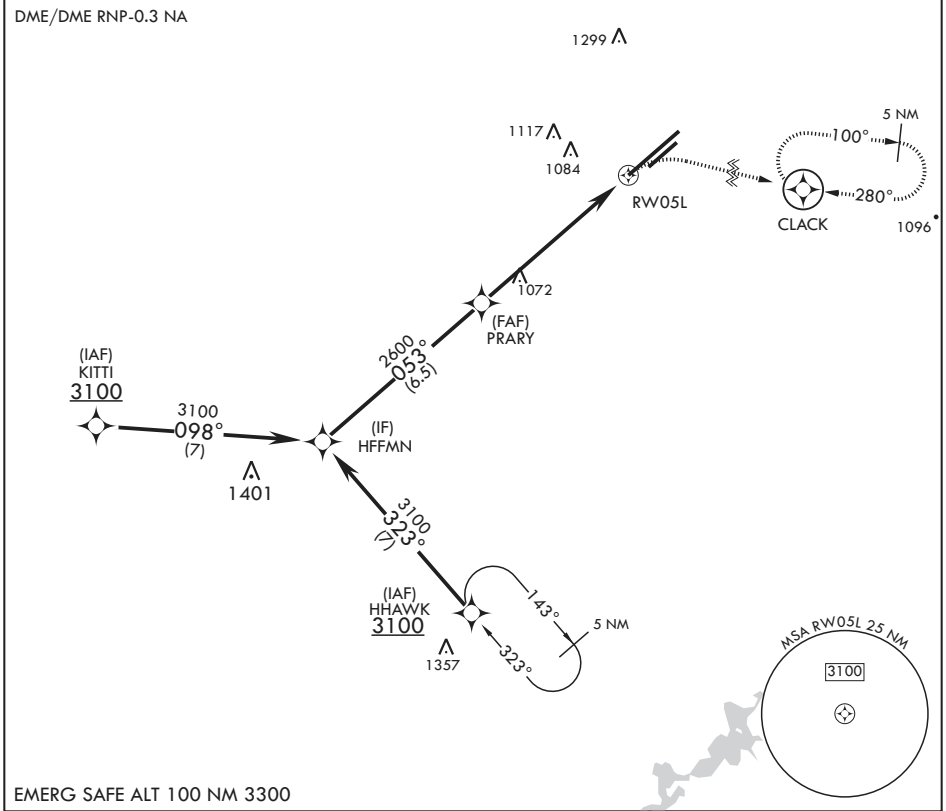
* When ALS inop increase CAT AB RVR to 55, vis to 1 mile; CAT CD vis to 1 5/8 miles.
** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

ALSF-1

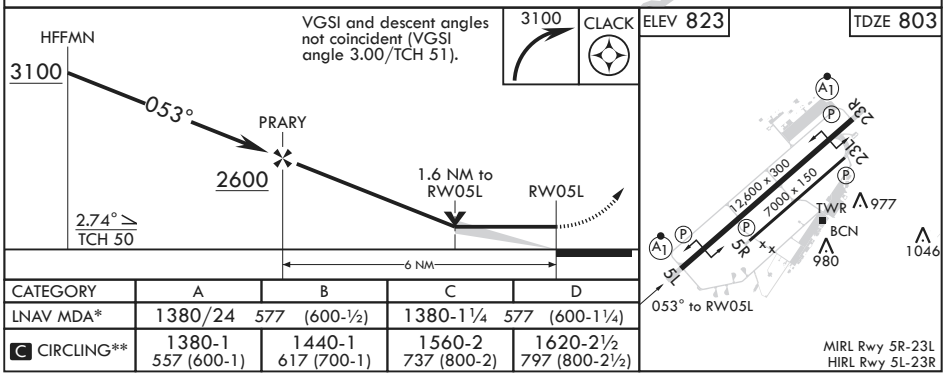
MISSED APPROACH: Turn right climb to 3100 direct CLACK WPT and hold.

ATIS	COLUMBUS APP CON/DEP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 3300



CATEGORY	A	B	C	D
LNAV MDA*	1380/24 577 (600-½)		1380-1¼ 577 (600-1¼)	
C CIRCLING**	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)

DAYTON, OHIO

39°50'N - 84°03'W

WRIGHT PATTERSON AFB (KFFO)

Amdt 3 13OCT16

RNAV (GPS) RWY 5L

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

RNAV (GPS) RWY 5R

APCH CRS	Rwy ldg	7000
053°	TDZE	813
	Arpt Elev	823

AL-108 (USAF)

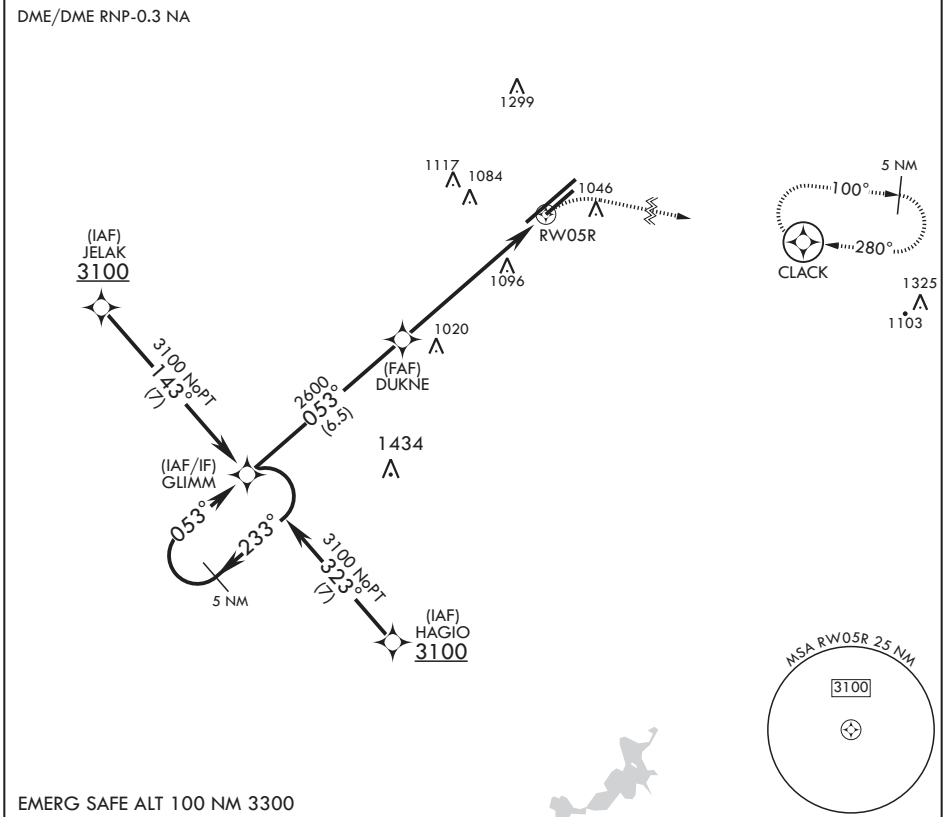
WRIGHT PATTERSON AFB (KFFO)

* When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

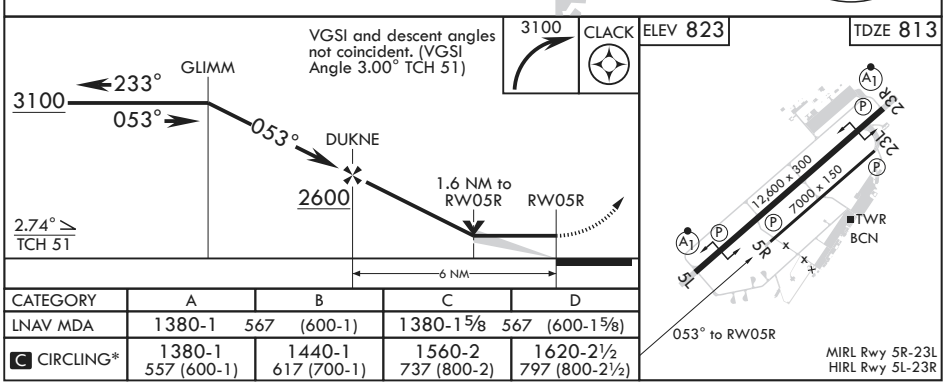
MISSED APPROACH: Turn right climb to 3100 direct CLACK WPT and hold.

ATIS	COLUMBUS APP CON/DEP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 3300



CATEGORY	A	B	C	D
LNAV MDA	1380-1 567 (600-1)		1380-1⅝ 567 (600-1⅝)	
C CIRCLING*	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)

DAYTON, OHIO

39°50'N - 84°03'W

WRIGHT PATTERSON AFB (KFFO)

Amdt 4 13OCT16

RNAV (GPS) RWY 5R

EC-2, 25 FEB 2021 to 22 APR 2021

18088

DAYTON, OHIO

RNAV (GPS) RWY 23L

APCH CRS	Rwy ldg	7000
233°	TDZE	818
	Arpt Elev	823

AL-108 (USAF)

WRIGHT PATTERSON AFB (KFFO)

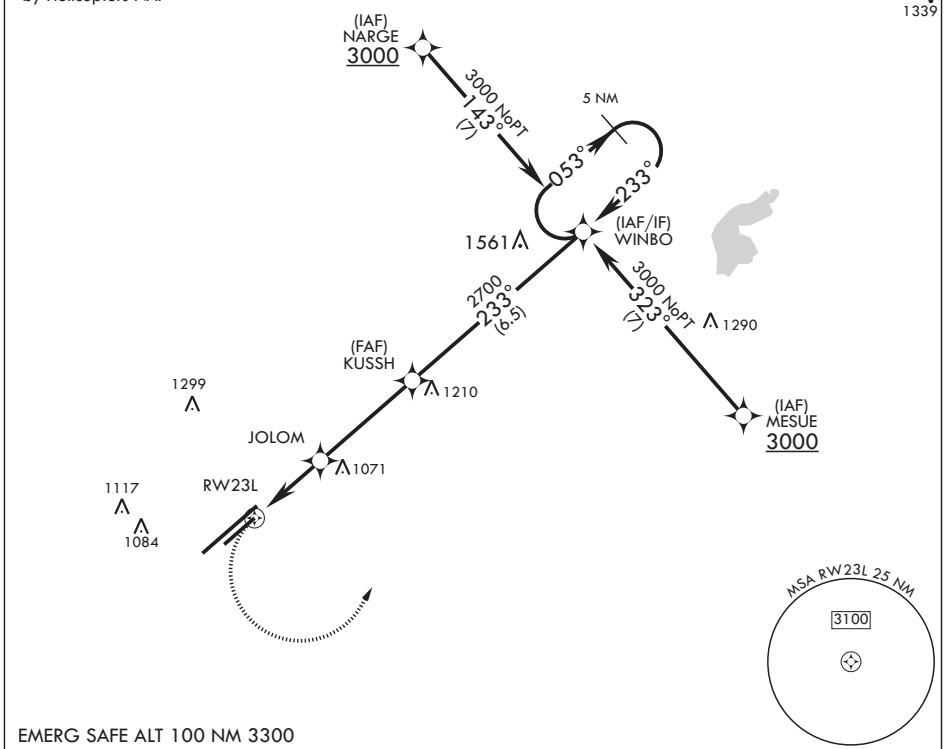
* When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

MISSED APPROACH: Turn left climb to 3000 direct WINBO WPT and hold.

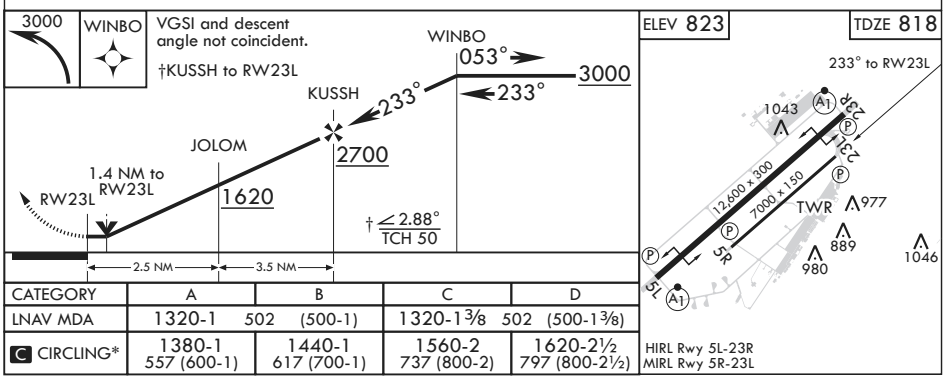
ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

DME/DME RNP -0.3 NA

LNAV Visibility Reduction by Helicopters NA.



EMERG SAFE ALT 100 NM 3300



CATEGORY	A	B	C	D
LNAV MDA	1320-1 502 (500-1)		1320-1⅜ 502 (500-1⅜)	
C CIRCLING*	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)

DAYTON, OHIO

39°50'N - 84°03'W

WRIGHT PATTERSON AFB (KFFO)

Amdt 6 29MAR18

RNAV (GPS) RWY 23L

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

RNAV (GPS) RWY 23R

APCH CRS	Rwy ldg	12,600
233°	TDZE	823
	Arpt Elev	823

AL-108 (USAF)

WRIGHT PATTERSON AFB (KFFO)

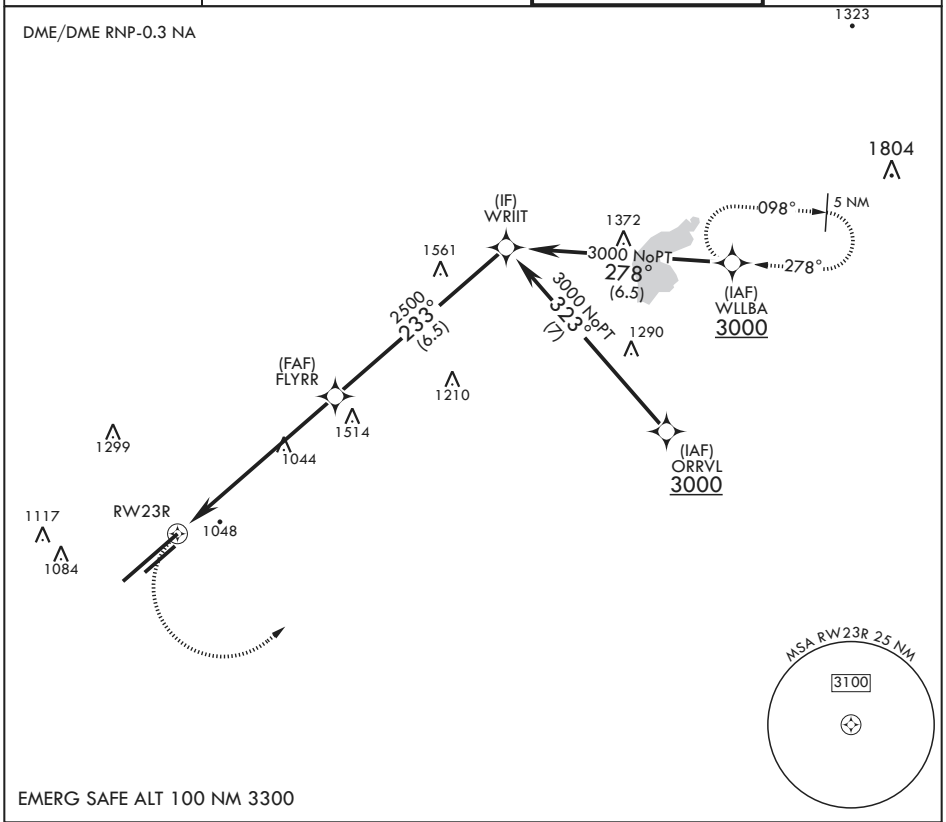
* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CD vis to 1 3/8 miles.
** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

ALSF-1

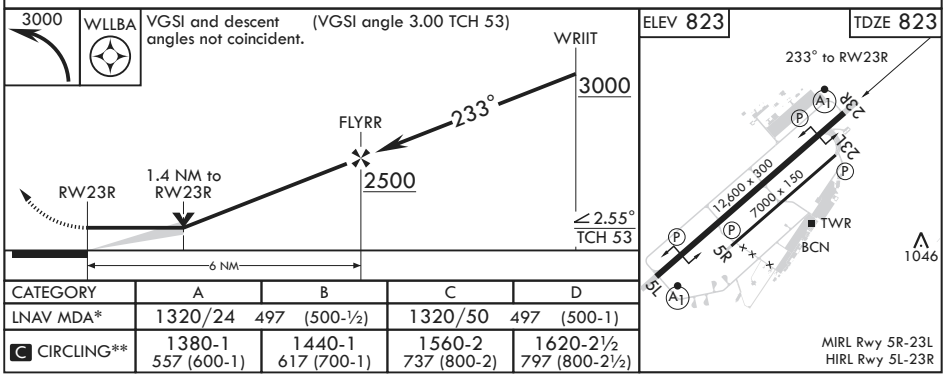
MISSED APPROACH: Turn left climb to 3000 direct WLLBA waypoint and hold.

ATIS	COLUMBUS APP CON/DEP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

DME/DME RNP-0.3 NA



EMERG SAFE ALT 100 NM 3300



CATEGORY	A	B	C	D
LNAV MDA*	1320/24 497 (500-½)		1320/50 497 (500-1)	
C CIRCLING**	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)

DAYTON, OHIO

Amdt 5 13OCT16

39°50'N - 84°03'W

WRIGHT PATTERSON AFB (KFFO)

RNAV (GPS) RWY 23R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

17173

DAYTON, OHIO

TACAN RWY 5L

TACAN FFO Chan 99	APCH CRS 059°	Rwy ldg 12,600 TDZE 803 Arpt Elev 823	AL-108 [USAF]

WRIGHT-PATTERSON AFB (KFFO)

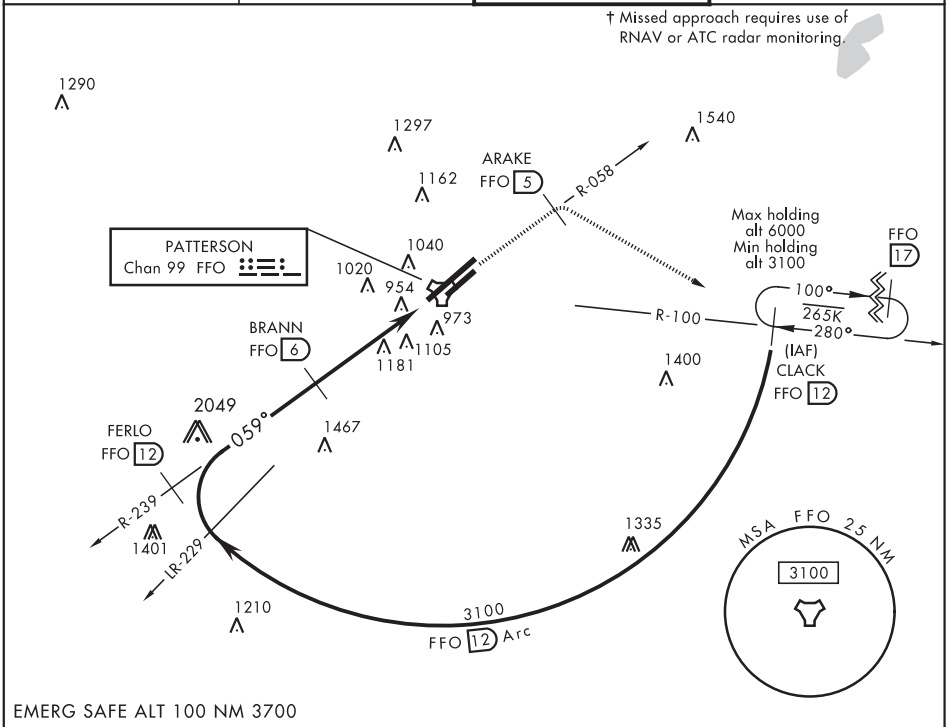
* When ALS inop, increase RVR CAT AB to 55 and vis to 1 mile, CAT CDE vis to 1¾ miles.
** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

ALSF-1

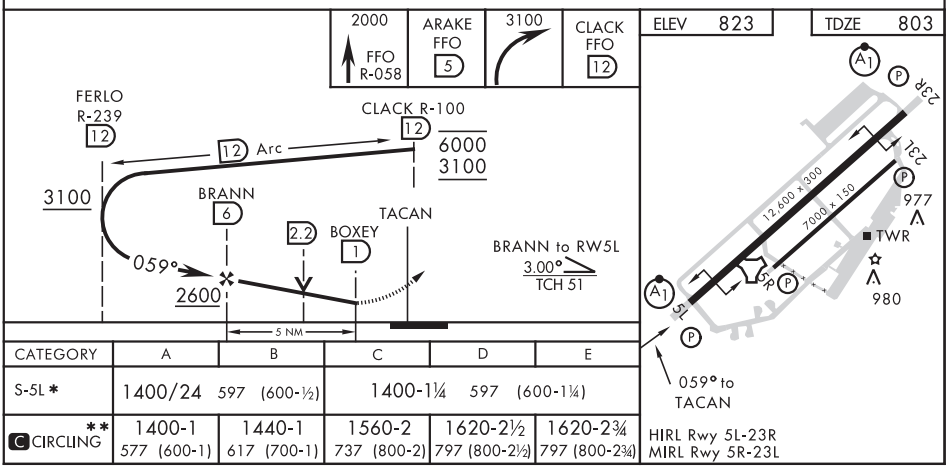
† MISSED APPROACH: Climb to 2000 via FFO R-058 to 5 DME, turn right direct CLACK climbing to 3100 and hold.

ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

† Missed approach requires use of RNAV or ATC radar monitoring.



EMERG SAFE ALT 100 NM 3700



CATEGORY	A	B	C	D	E
S-5L *	1400/24 597 (600-½)		1400-1¼ 597 (600-1¼)		
** C CIRCLING	1400-1 577 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)	1620-2¾ 797 (800-2¾)

DAYTON, OHIO
Amdt 7 05JAN17

39° 50′N-84° 03′W

WRIGHT-PATTERSON AFB (KFFO)

TACAN RWY 5L

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

TACAN RWY 5R

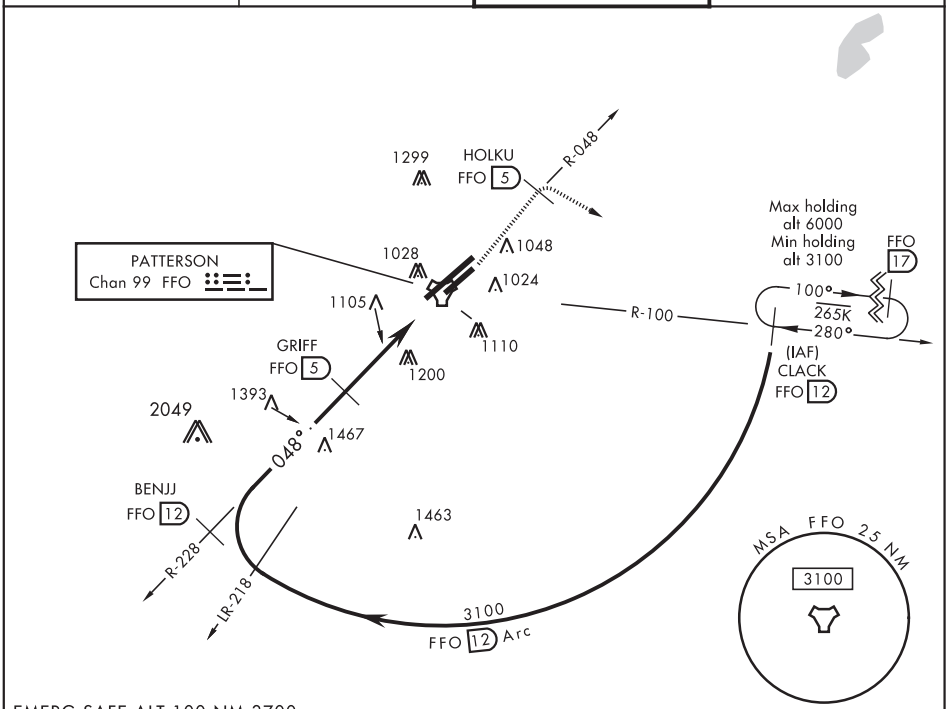
WRIGHT-PATTERSON AFB (KFFO)

TACAN FFO Chan 99	APCH CRS 048°	Rwy ldg 7000 THRE 807 Arpt Elev 823	AL-108 [USAF]

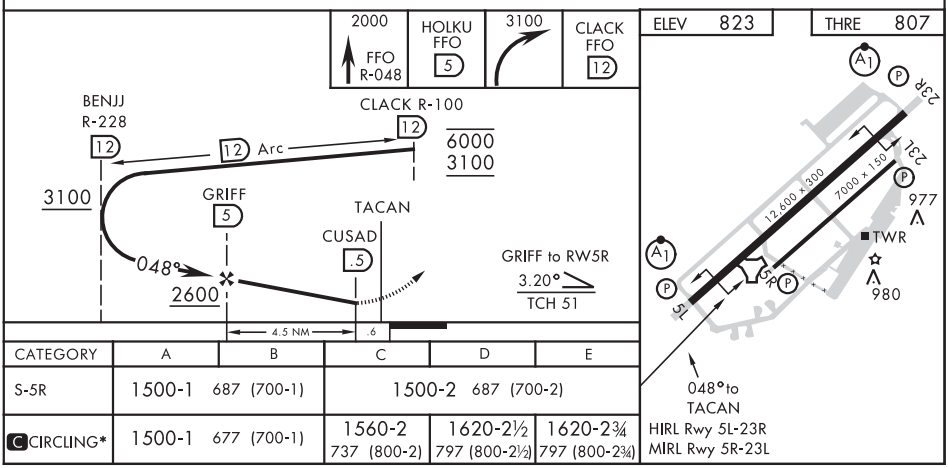
* When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

MISSED APPROACH: Climb to 2000 via FFO R-048 to HOLKU, turn right direct CLACK climbing to 3100 and hold.

ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8



EMERG SAFE ALT 100 NM 3700



CATEGORY	A	B	C	D	E
S-5R	1500-1 687 (700-1)		1500-2 687 (700-2)		
C CIRCLING*	1500-1 677 (700-1)		1560-2 737 (800-2)	1620-2½ 797 (800-2½)	1620-2¾ 797 (800-2¾)

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

17173

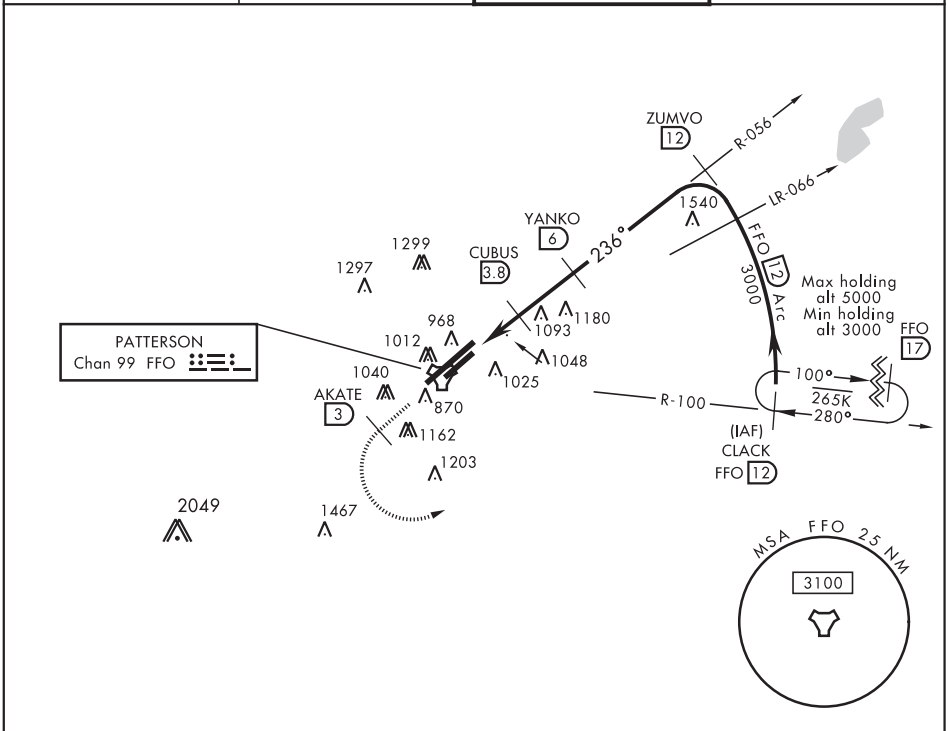
TACAN RWY 23L

TACAN FFO Chan 99	APCH CRS 236°	Rwy ldg 7000 TDZE 818 Arpt Elev 823	AL-108 [USAF]	WRIGHT-PATTERSON AFB (KFFO)

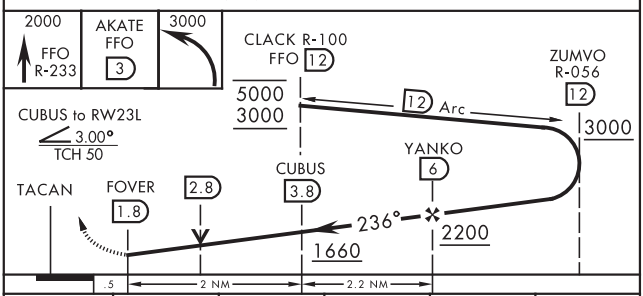
* When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

MISSED APPROACH: Climb to 2000 via FFO R-233, at 3 DME turn left direct CLACK climbing to 3000 and hold.

ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

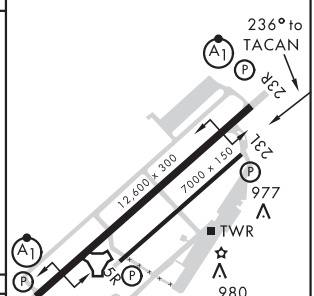


EMERG SAFE ALT 100 NM 3700



CATEGORY	A	B	C	D	E
S-23L	1340-1 522 (600-1)		1340-1½ 522 (600-1½)	1340-1¾ 522 (500-1¾)	
C CIRCLING*	1380-1 557 (600-1)	1400-1 577 (600-1)	1420-1½ 597 (600-1½)	1460-2 637 (700-2)	1620-2¾ 797 (800-2¾)

ELEV 823 | TDZE 818



HIRL Rwy 5L-23R
MIRL Rwy 5R-23L

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

DAYTON, OHIO

TACAN RWY 23R

TACAN FFO Chan 99	APCH CRS 230°	Rwy ldg 12,600 THRE 823 Arpt Elev 823	AL-108 [USAF]	WRIGHT-PATTERSON AFB (KFFO)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1½ miles.

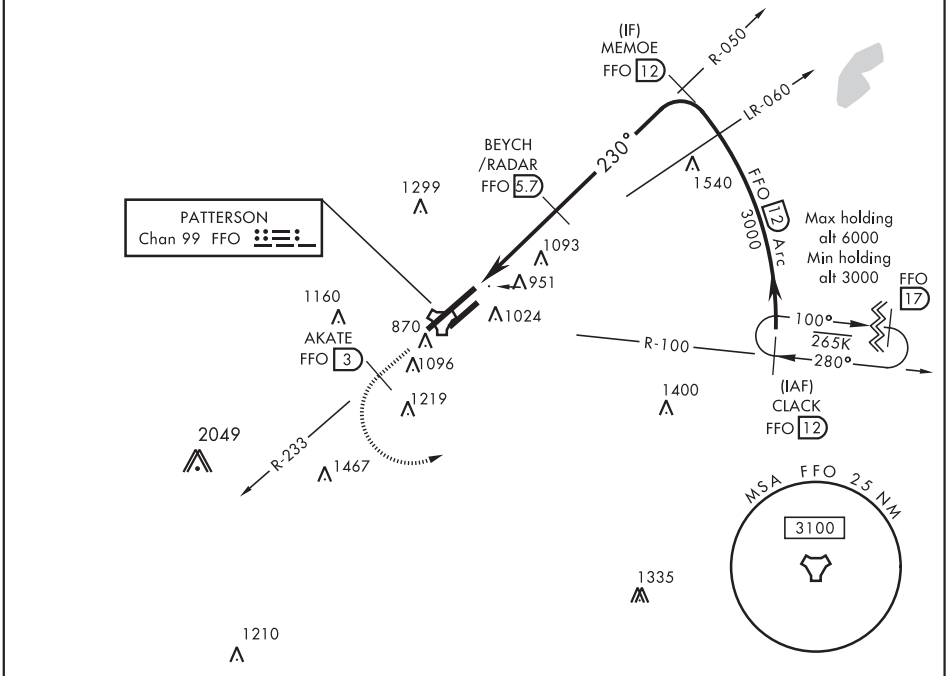
ALSF-1

† MISSED APPROACH: Climb to 2000 via FFO R-233, at 3 DME turn left direct CLACK climbing to 3000 and hold.

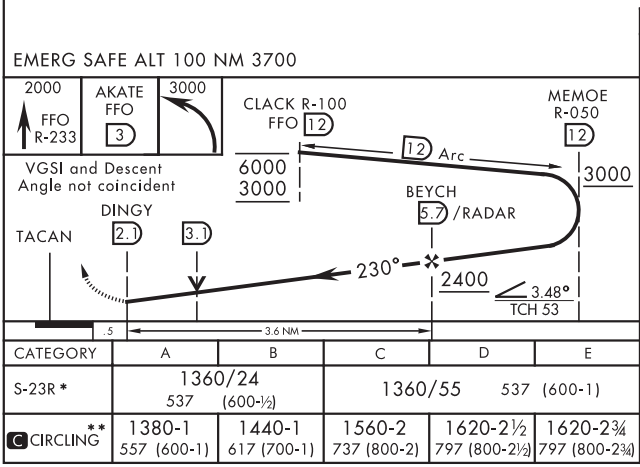
ATIS	COLUMBUS APP CON	PATTERSON TOWER	GND CON
124.475 269.9	118.85 269.275	126.9 281.45	121.8 335.8

** When Rwy 23R VGSI inop, circling to Rwy 23R NA at night.

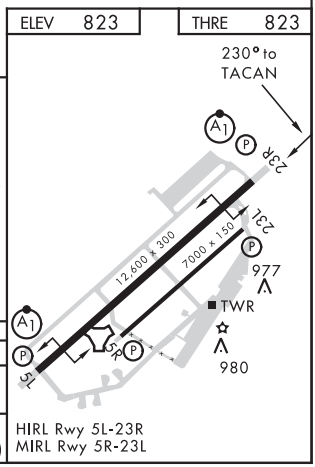
† Missed approach requires use of RNAV or ATC radar monitoring.



EMERG SAFE ALT 100 NM 3700



CATEGORY	A	B	C	D	E
S-23R *	1360/24 537 (600-½)		1360/55 537 (600-1)		
C CIRCLING **	1380-1 557 (600-1)	1440-1 617 (700-1)	1560-2 737 (800-2)	1620-2½ 797 (800-2½)	1620-2¾ 797 (800-2¾)



HIRL Rwy 5L-23R
MIRL Rwy 5R-23L

DAYTON, OHIO
Amdt 6 30APR15

39° 50′N-84° 03′W

WRIGHT-PATTERSON AFB (KFFO)

TACAN RWY 23R

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

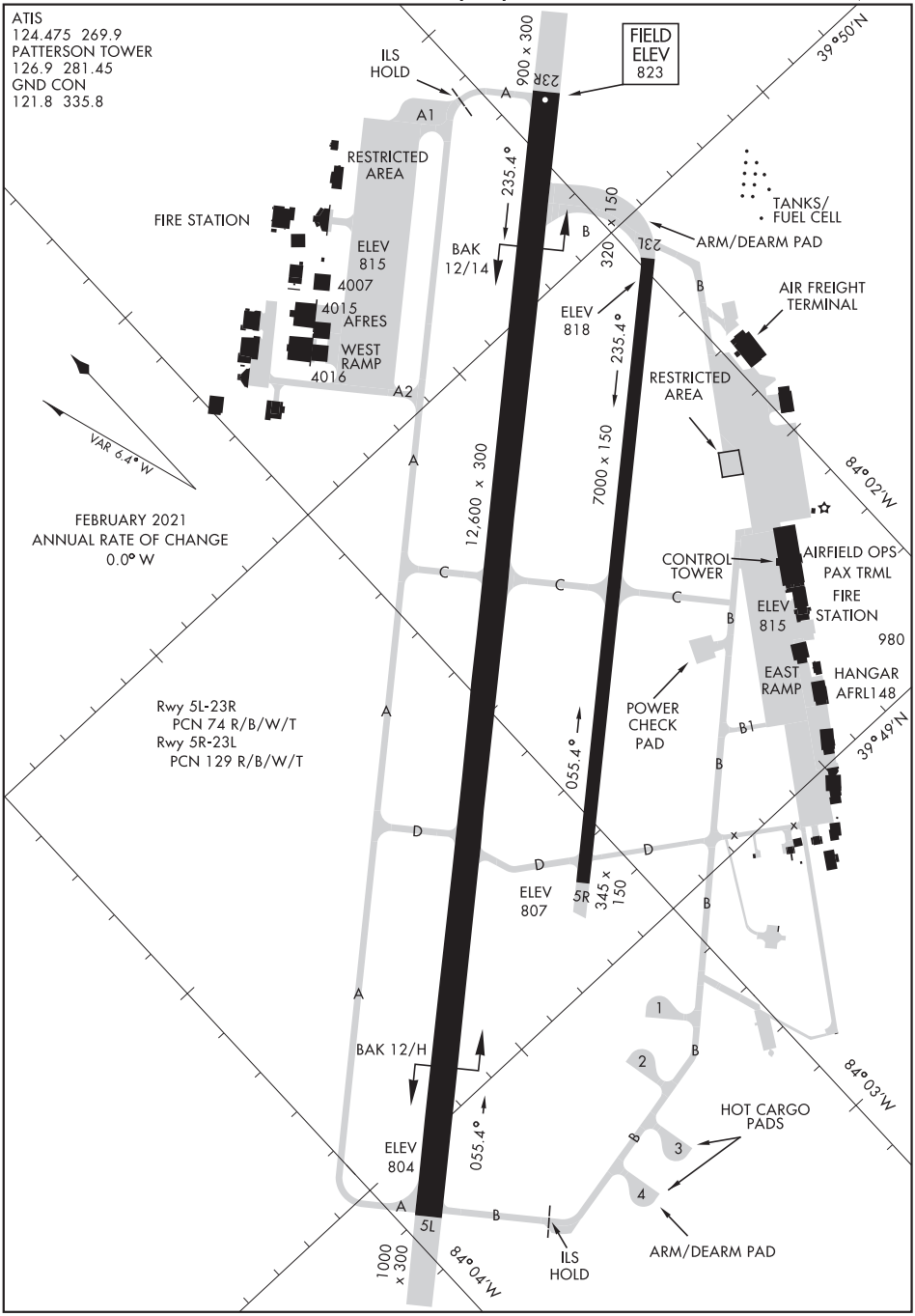
21056

AIRPORT DIAGRAM

WRIGHT-PATTERSON AFB (KFFO)

AL-108 [USAF]

DAYTON, OHIO



EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM

DAYTON, OHIO

WRIGHT-PATTERSON AFB (KFFO)

APP CRS	Rwy ldg	3664
098°	TDZE	1051
	Apt Elev	1070

RNAV (GPS) RWY 10
YOUNGSTOWN ELSER METRO (4G4)

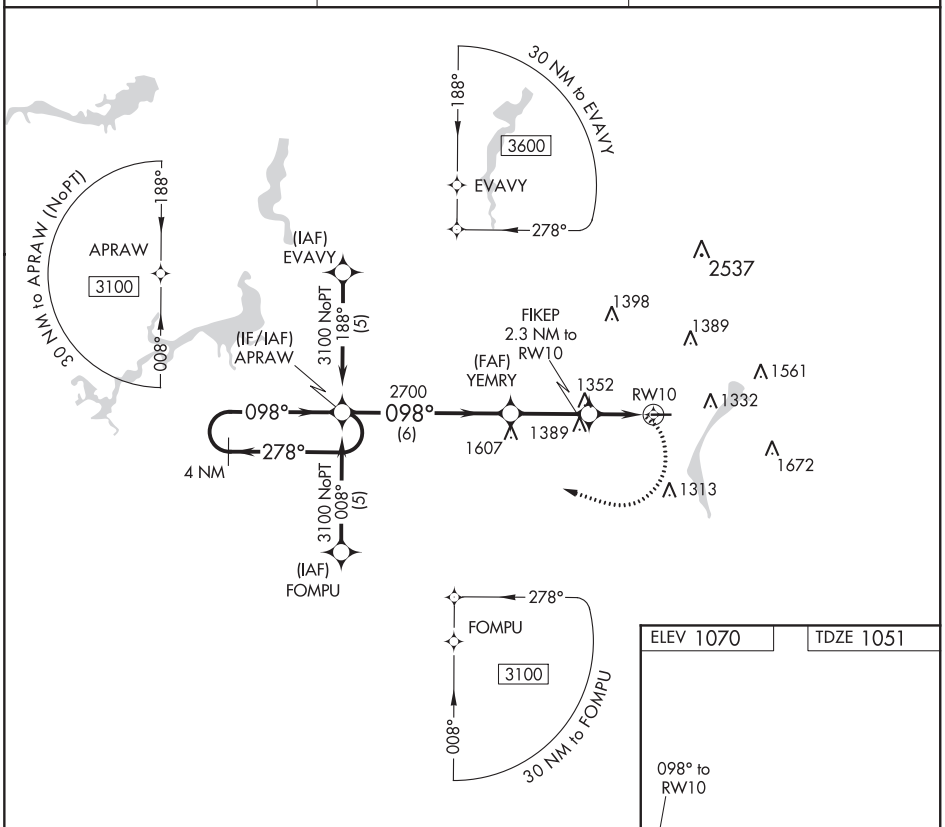
RNP APCH.

NA

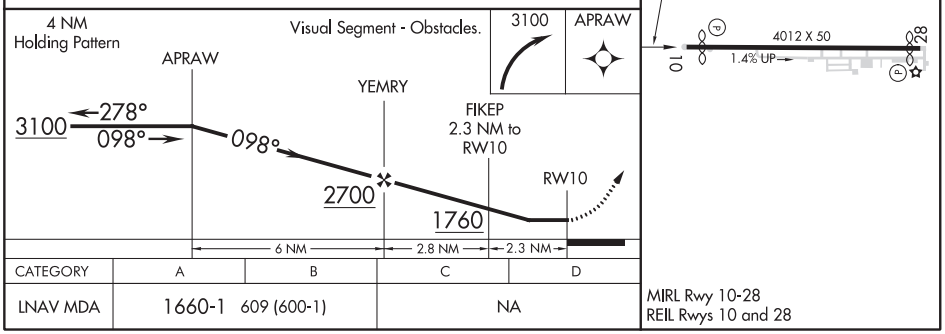
Rwy 10 helicopter visibility reduction below 1 SM NA. Obtain local altimeter setting on CTAF; when not received, use New Castle altimeter setting and increase all MDA 40 feet. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3100 direct APRAW and hold.

CLEVELAND APP CON ★	CLNC DEL	UNICOM
125.5 371.875	119.25	123.05 (CTAF)



ELEV 1070	TDZE 1051



CATEGORY	A	B	C	D
LNAV MDA	1660-1 609 (600-1)		NA	

MIRL Rwy 10-28
REIL Rwys 10 and 28

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

YOUNGSTOWN, OHIO AL-6529 (FAA) 20198

APP CRS	Rwy ldg	3753
279°	TDZE	1063
	Apt Elev	1070

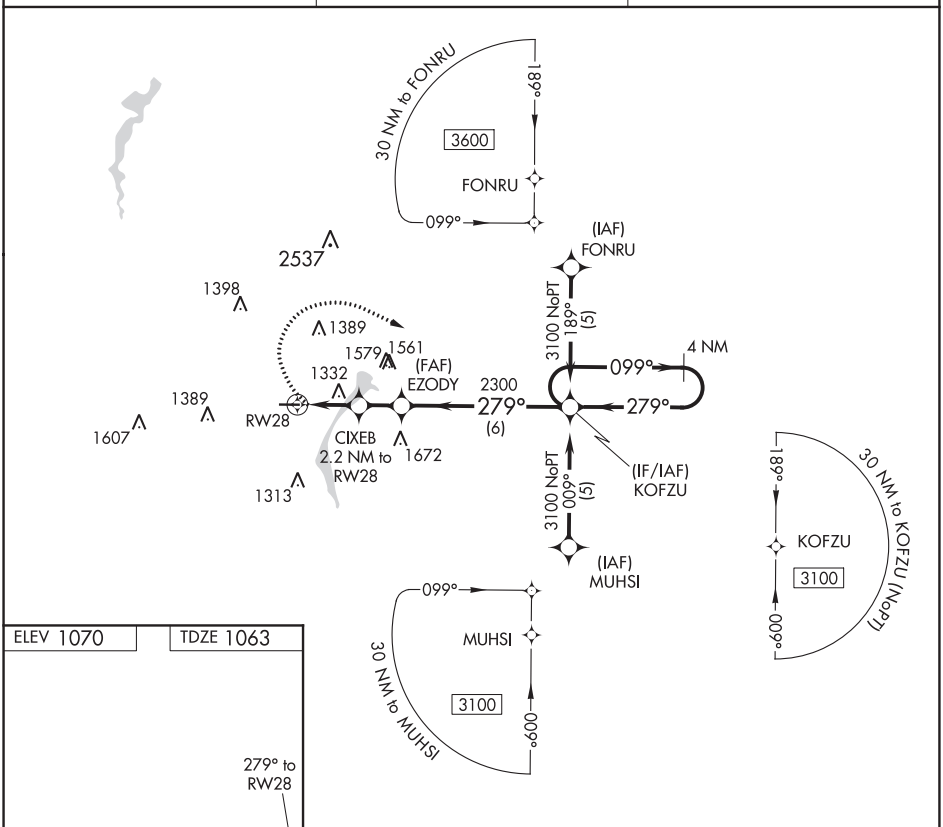
RNAV (GPS) RWY 28
YOUNGSTOWN ELSER METRO (4G4)

RNP APCH.

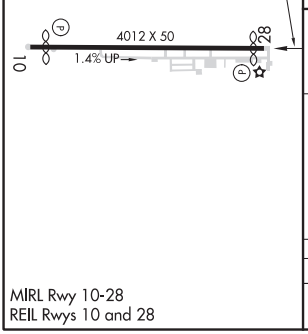
T NA Rwy 28 helicopter visibility reduction below 1 SM NA. Obtain local altimeter setting on CTAF; when not received, use New Castle altimeter setting and increase all MDA 40 feet. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3100 direct KOFZU and hold.

CLEVELAND APP CON★	CLNC DEL	UNICOM
125.5 371.875	119.25	123.05 (CTAF)



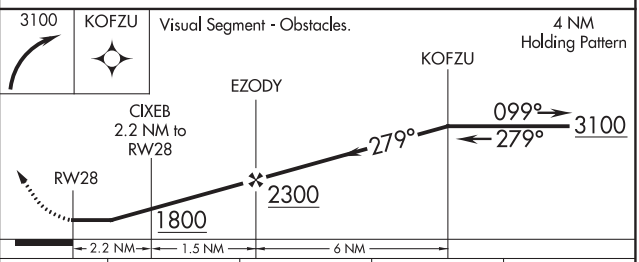
ELEV 1070 TDZE 1063



MIRL Rwy 10-28
REIL Rwys 10 and 28

3100 KOFZU Visual Segment - Obstacles.

4 NM Holding Pattern



CATEGORY	A	B	C	D
LNAV MDA	1600-1 537 (600-1)		NA	

YOUNGSTOWN, OHIO
Orig-D 07NOV19

40°58′N-80°41′W

YOUNGSTOWN ELSER METRO (4G4)
RNAV (GPS) RWY 28

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

VOR/DME ACO 114.4 Chan 91	APP CRS 114°	Rwy ldg N/A TDZE N/A Apt Elev 1070

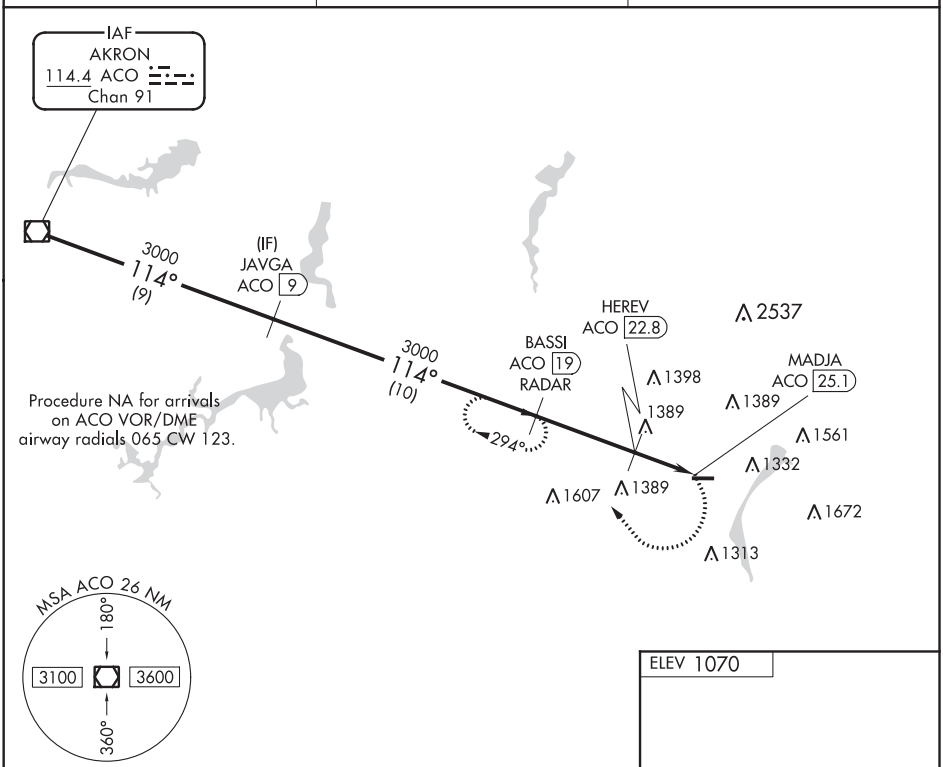
VOR-C
YOUNGSTOWN ELSER METRO (4G4)

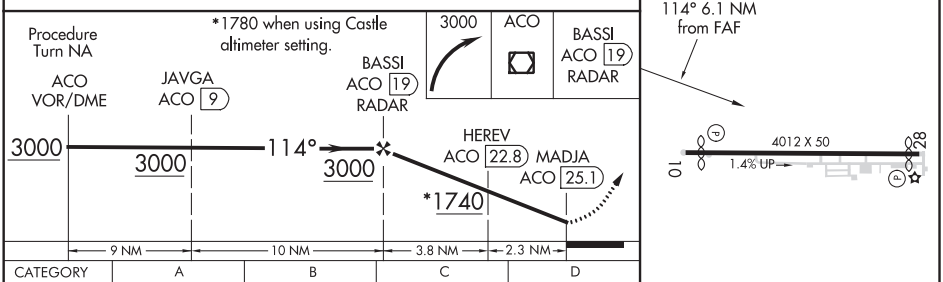
DME or RADAR required.

T A NA Obtain local altimeter setting on CTAF; when not received, use New Castle altimeter setting and increase all MDA 40 feet. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3000 via ACO VOR/DME R-114 to BASSI/ACO 19 DME/RADAR and hold.

CLEVELAND APP CON ★	CLNC DEL	UNICOM
125.5 371.875	119.25	123.05 (CTAF)





CATEGORY	A	B	C	D
C CIRCLING	1740-1 670 (700-1)	1740-1¼ 670 (700-1¼)	NA	

MIRL Rwy 10-28
REIL Rwys 10 and 28

HEREV FIX MINIMUMS			
C CIRCLING	1660-1 590 (600-1)		NA

FAF to MAP 6.1 NM					
Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-MQK	APP CRS	Rwy ldg / TDZE / Apt Elev
110.1	143°	9003 / 1134 / 1192

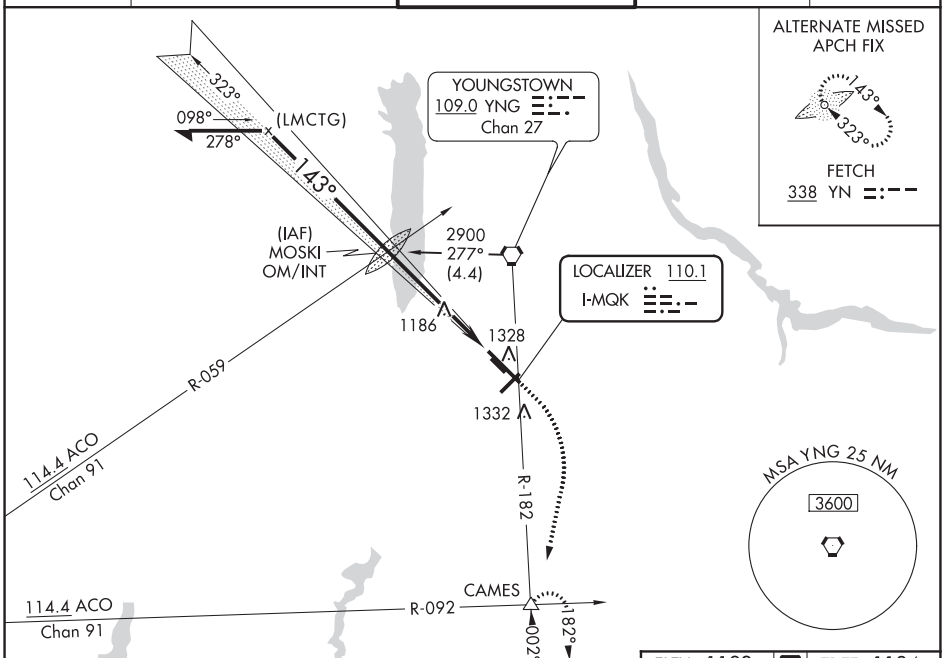
ILS or LOC RWY 14
YOUNGSTOWN-WARREN RGNL (YNG)

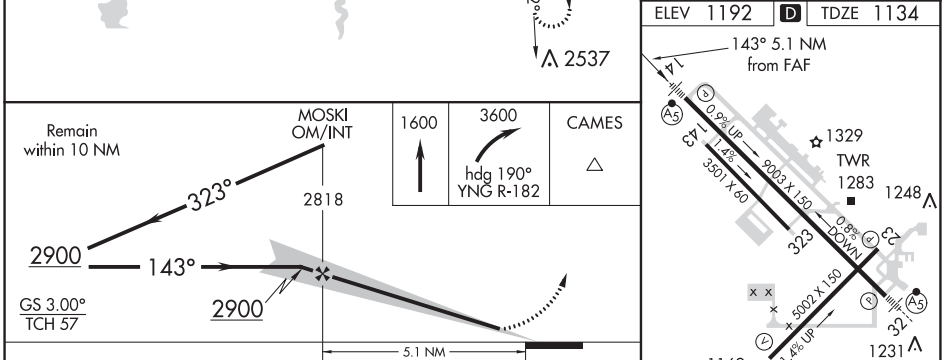
T A NA ASR — Circling Rwy 5 NA at night.

MALSR A5

MISSED APPROACH: Climb to 1600 then climbing right turn to 3600 on heading 190° and on YNG VORTAC R-182 to CAMES INT and hold.

ATIS	YOUNGSTOWN APP CON ★	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25





HIRL Rwy 14-32
MIRL Rwy 5-23
REIL Rwys 5 and 23

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
S-ILS 14	1334-½ 200 (200-½)			
S-LOC 14	1580-½ 446 (400-½)		1580-1 446 (400-1)	
C CIRCLING	1640-1 448 (500-1)	1660-1 468 (500-1)	1740-1½ 548 (600-1½)	1760-2 568 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021

LOC I-YNG	APP CRS	Rwy ldg	9003
110.1	323°	TDZE	1186
		Apt Elev	1192

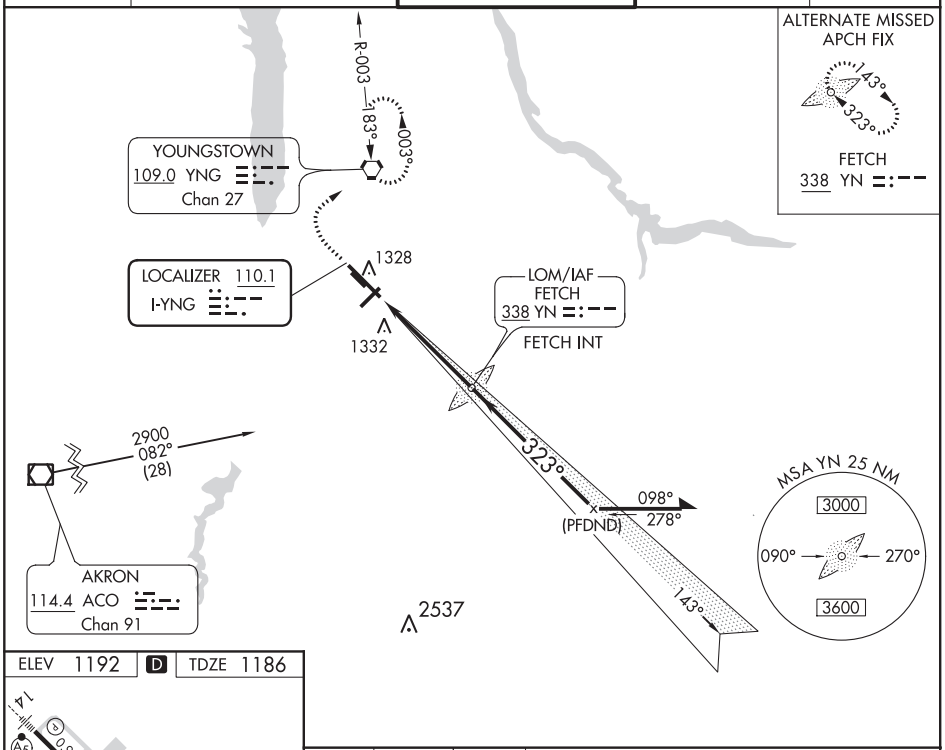
ILS or LOC RWY 32
YOUNGSTOWN-WARREN RGNL (YNG)

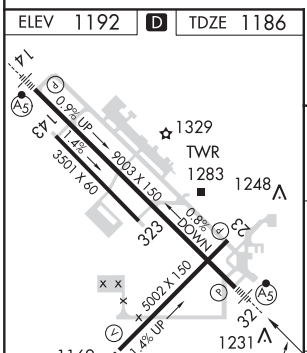
ASR: Circling Rwy 5 NA at night.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

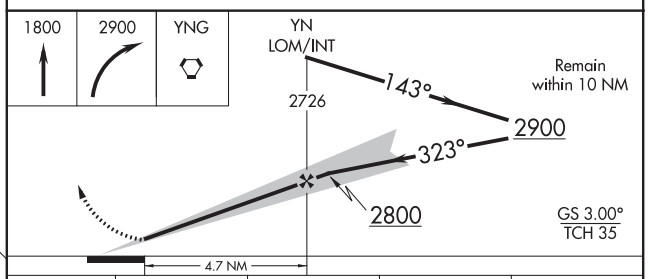
MISSED APPROACH: Climb to 1800 then climbing right turn to 2900 direct YNG VORTAC and hold, continue climb-in-hold to 2900.

ATIS	YOUNGSTOWN APP CON *	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25





FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



CATEGORY	A	B	C	D
S-ILS 32*	1386/24 200 (200-½)			
S-LOC 32	1640/24 454 (500-½)		1640/45 454 (500-⅞)	
C CIRCLING	1640-1 448 (500-1)	1660-1 468 (500-1)	1740-1½ 548 (600-1½)	1760-2 568 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 49205 W14A	APP CRS 143°	Rwy ldg 9003 TDZE 1134 Apt Elev 1192

RNAV (GPS) RWY 14
YOUNGSTOWN-WARREN RGNL (YNG)

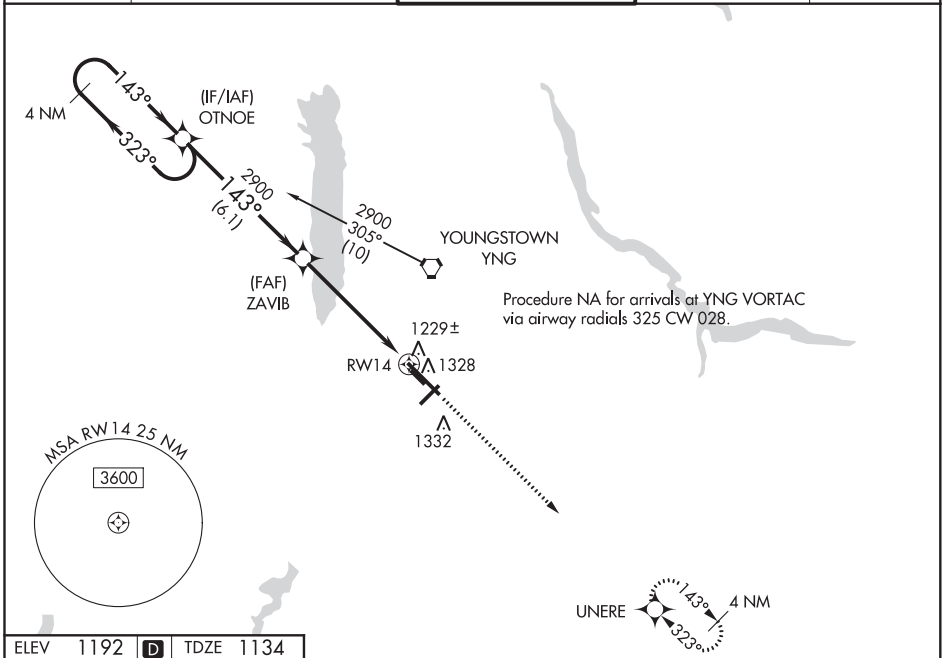
RNP APCH.

ASR: For inop ALS, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 46°C. Circling Rwy 5 NA at night.

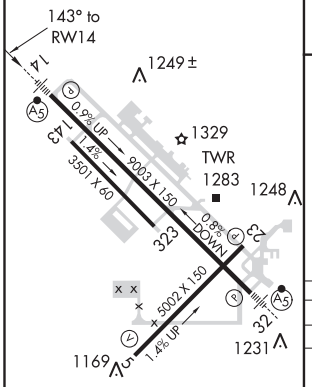
MALSR

MISSED APPROACH: Climb to 2900 direct UNERE and hold.

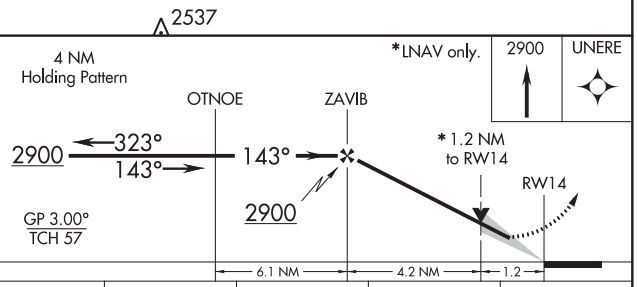
ATIS	YOUNGSTOWN APP CON *	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25



ELEV 1192 D TDZE 1134



HIRL Rwy 14-32
MIRL Rwy 5-23
REIL Rwys 5 and 23



CATEGORY	A	B	C	D
LPV DA	1384/24 250 (200-½)			
LNAV/VNAV DA	1499/40 365 (400-¾)			
LNAV MDA	1540/24 406 (400-½)		1540/40 406 (400-¾)	1540/50 406 (400-1)
C CIRCLING	1640-1 448 (500-1)	1660-1 468 (500-1)	1740-1½ 548 (600-1½)	1760-2 568 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021

WAAS CH 97406 W32A	APP CRS 323°	Rwy ldg 9003 TDZE 1186 Apt Elev 1192

RNAV (GPS) RWY 32
YOUNGSTOWN-WARREN RGNL (YNG)

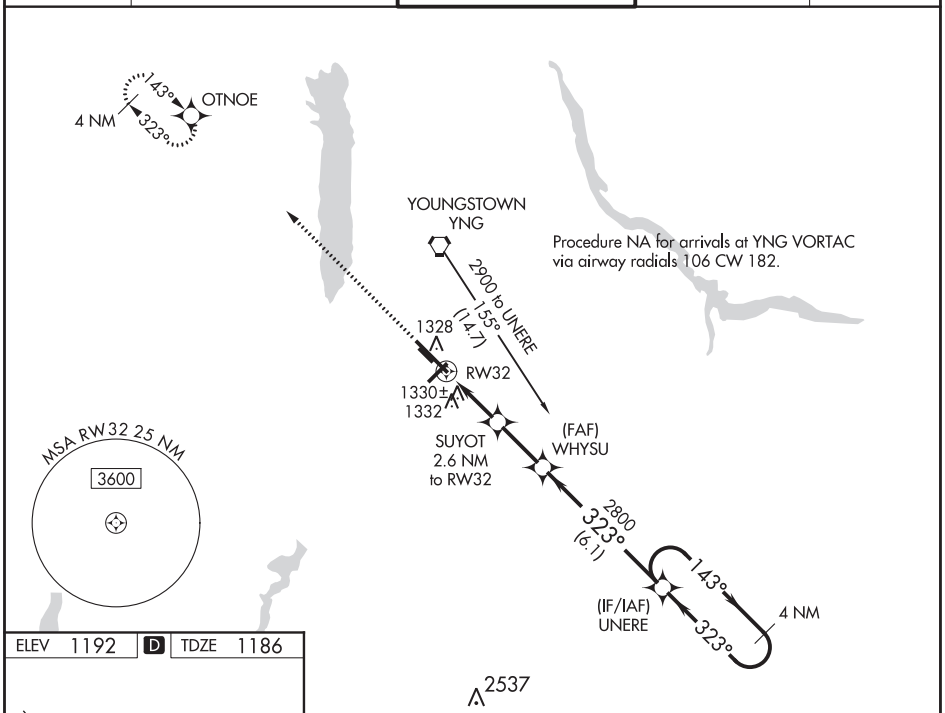
RNP APCH.

ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 46°C. For inop ALS, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000. Circling Rwy 5 NA at night.

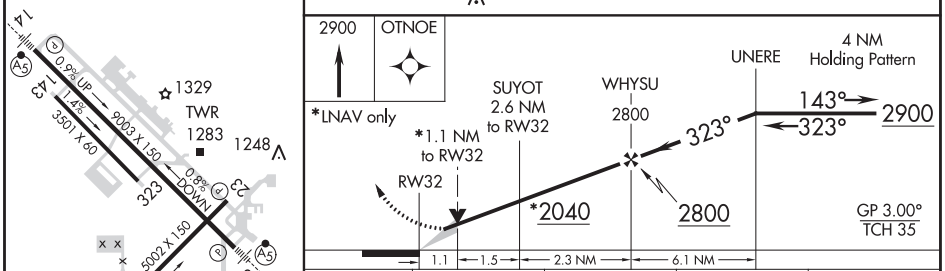
MALSR

MISSED APPROACH: Climb to 2900 direct OTNOE and hold.

ATIS	YOUNGSTOWN APP CON *	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25



ELEV 1192 D TDZE 1186



CATEGORY	A	B	C	D
LPV DA	1458/24 272 (300-½)			
LNAV/VNAV DA	1639/60 453 (500-1¼)			
LNAV MDA	1580/24 394 (400-½)			1580/50 394 (400-1)
C CIRCLING	1640-1 448 (500-1)	1660-1 468 (500-1)	1740-1½ 548 (600-1½)	1760-2 568 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021
EC-2, 25 FEB 2021 to 22 APR 2021

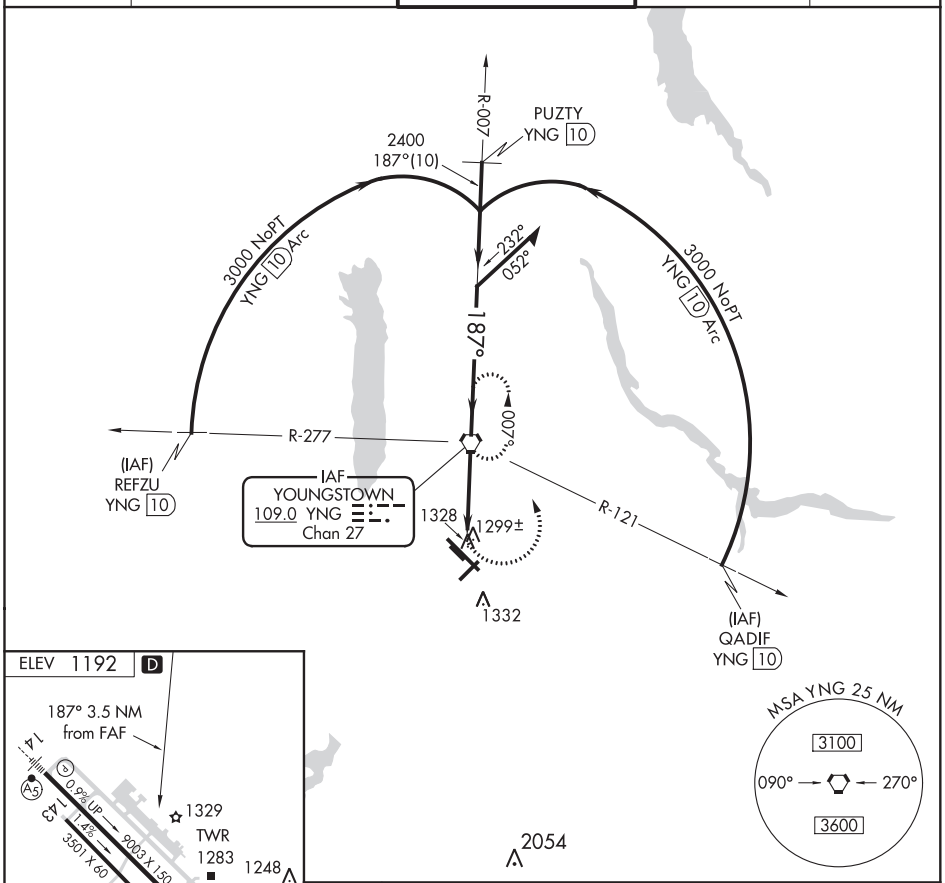
VORTAC YNG 109.0 Chan 27	APP CRS 187°	Rwy ldg N/A TDZE N/A Apt Elev 1192

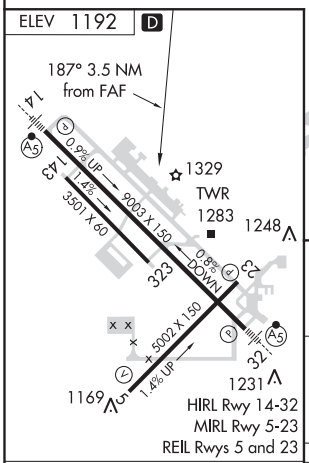
VOR-A
YOUNGSTOWN-WARREN RGNL (YNG)

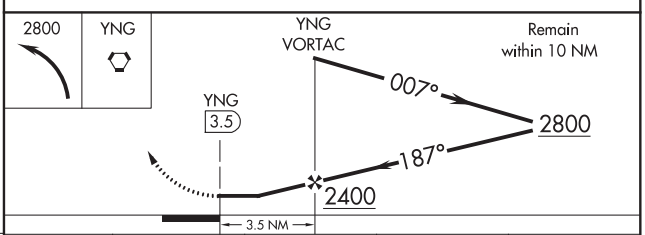
ASR — Circling Rwy 5 NA at night.

MISSED APPROACH: Climbing left turn to 2800 direct YNG VORTAC and hold.

ATIS	YOUNGSTOWN APP CON ★	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25







FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10

CATEGORY	A	B	C	D
C CIRCLING	1640-1 444 (500-1)	1660-1 464 (500-1)	1740-1½ 548 (600-1½)	1760-2 564 (600-2)

EC-2, 25 FEB 2021 to 22 APR 2021

NDB RWY 32

YOUNGSTOWN-WARREN RGNL (YNG)

LOM YN	APP CRS	Rwy ldg	9003
338	323°	TDZE	1186
		Apt Elev	1192

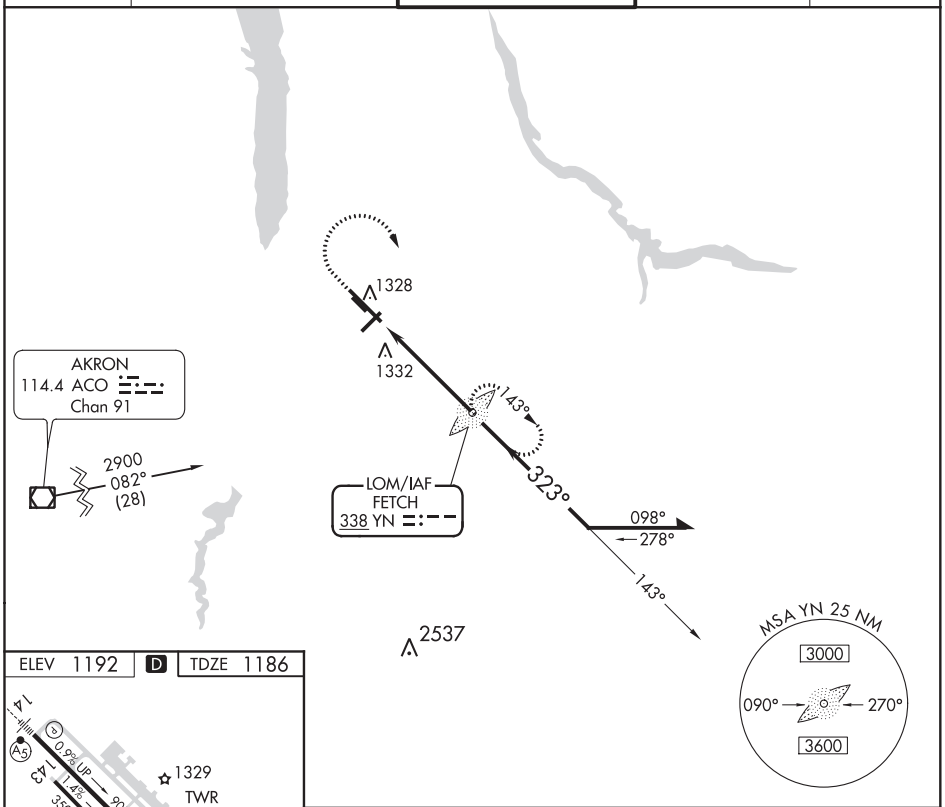
T
A NA
ASR

Circling Rwy 5 NA at night.

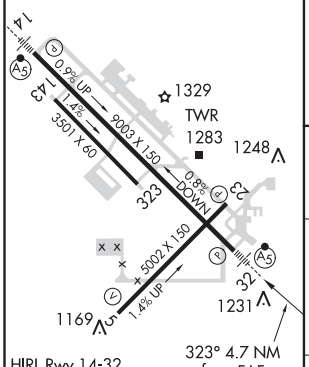
MALSR

MISSED APPROACH: Climb to 1800 then climbing right turn to 2900 direct FETCH LOM and hold.

ATIS	YOUNGSTOWN APP CON ★	YOUNGSTOWN TOWER	GND CON	CLNC DEL
123.75	133.95 322.3	119.5 263.0	121.9 275.8	118.25

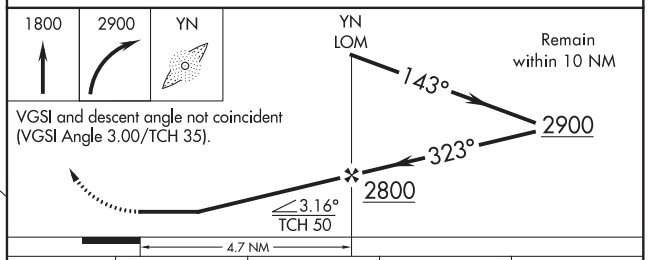


ELEV 1192 D TDZE 1186



HIRL Rwy 14-32
MIRL Rwy 5-23
REIL Rwys 5 and 23

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



VGSI and descent angle not coincident
(VGSI Angle 3.00/TCH 35).

CATEGORY	A	B	C	D
S-32	1700/40	514 (600-¾)	1700/55	514 (600-1)
C CIRCLING	1700-1	508 (600-1)	1740-1½ 548 (600-1½)	1760-2 568 (600-2)

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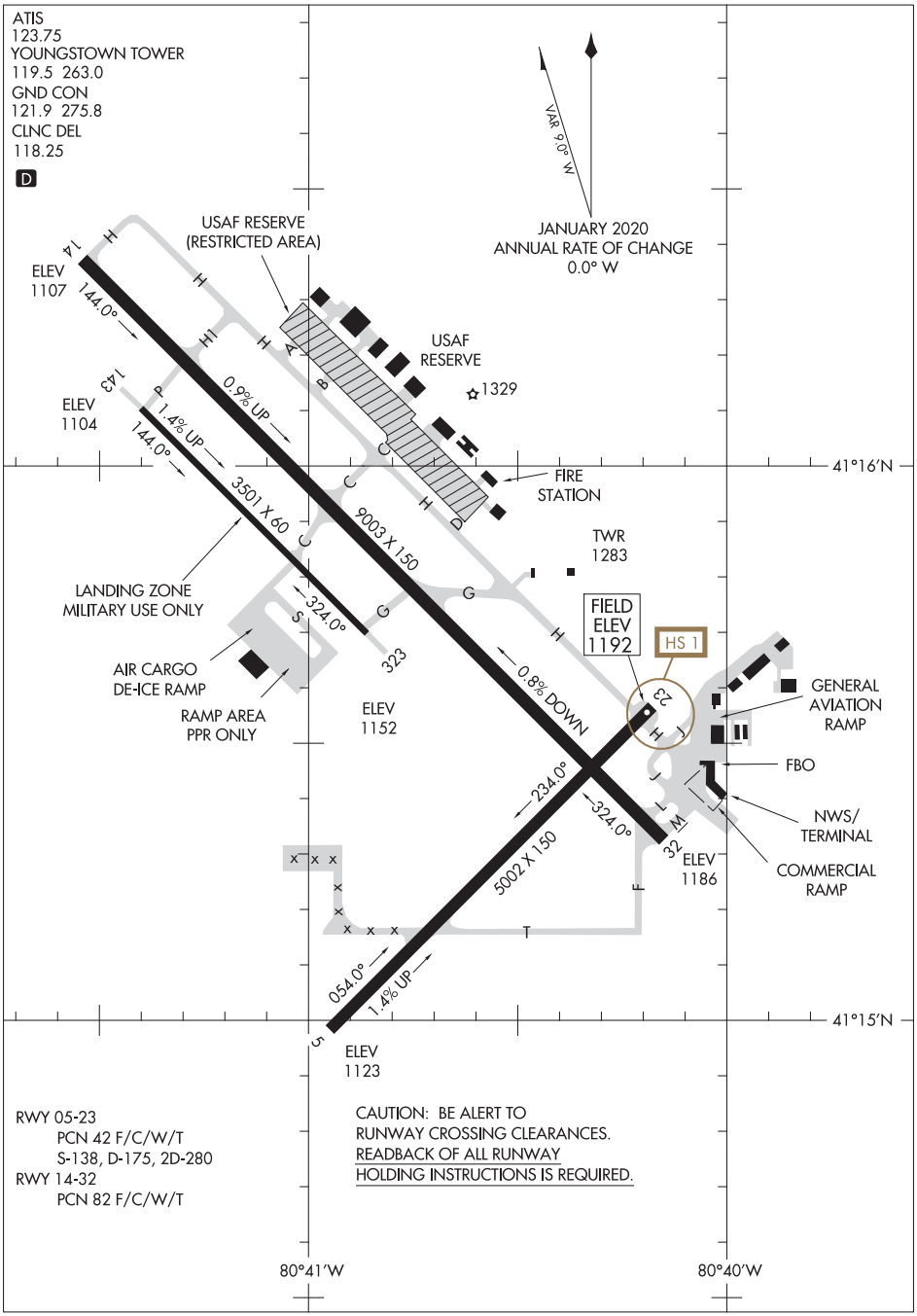
EC-2, 25 FEB 2021 to 22 APR 2021

20198

AIRPORT DIAGRAM

AL-466 (FAA)

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



RWY 05-23
PCN 42 F/C/W/T
S-138, D-175, 2D-280
RWY 14-32
PCN 82 F/C/W/T

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

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20198
YOUNGSTOWN-WARREN, OHIO
YOUNGSTOWN-WARREN RGNL (YNG)

ILS or LOC RWY 22
ZANESVILLE MUNI (ZZV)

LOC/DME I-TNF	APP CRS	Rwy ldg	4999
109.95	220°	TDZE	892
Chan 36 (Y)		Apt Elev	900

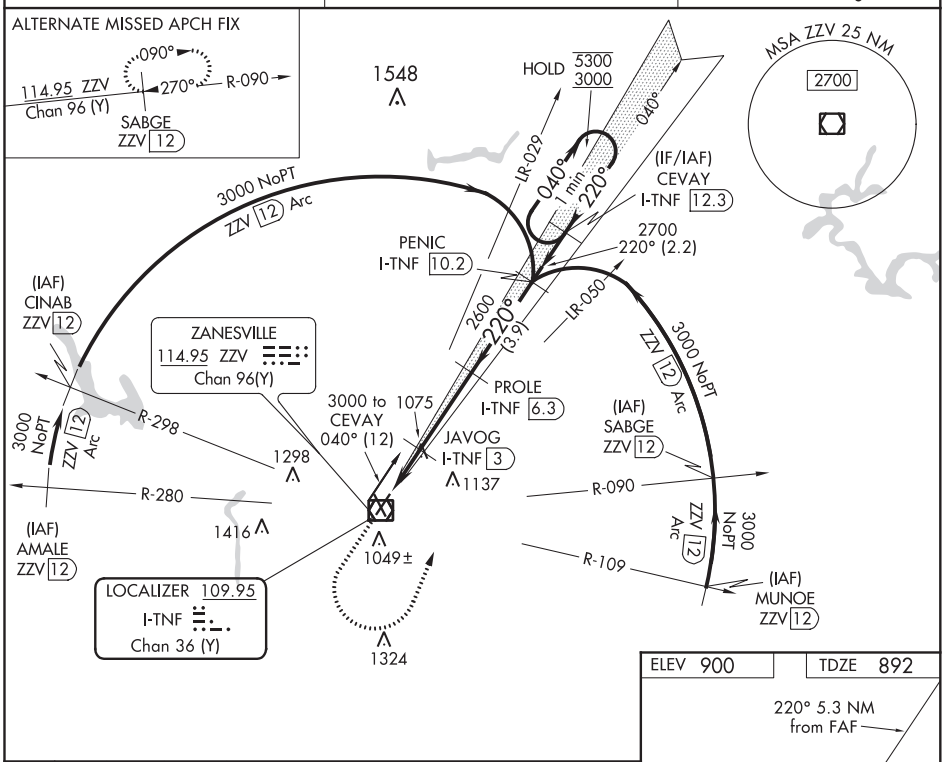
DME required.

T

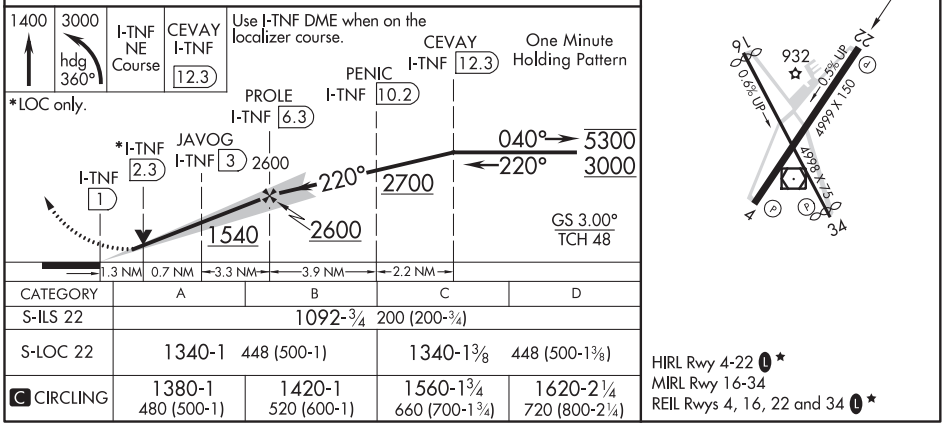
A NA

MISSED APPROACH: Climb to 1400 then climbing left turn to 3000 on heading 360° and I-TNF localizer northeast course 040° to CEVAY/I-TNF 12.3 DME and hold.

ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	123.0 (CTAF) L★



ELEV 900	TDZE 892



CATEGORY	A	B	C	D
S-ILS 22	1092-¾ 200 (200-¾)			
S-LOC 22	1340-1 448 (500-1)		1340-1⅜ 448 (500-1⅜)	
C CIRCLING	1380-1 480 (500-1)	1420-1 520 (600-1)	1560-1¾ 660 (700-1¾)	1620-2¼ 720 (800-2¼)

HIRL Rwy 4-22 L★
MIRL Rwy 16-34
REIL Rwys 4, 16, 22 and 34 L★

EC-2, 25 FEB 2021 to 22 APR 2021

EC-2, 25 FEB 2021 to 22 APR 2021

ZANESVILLE, OHIO

AL-864 (FAA)

20310

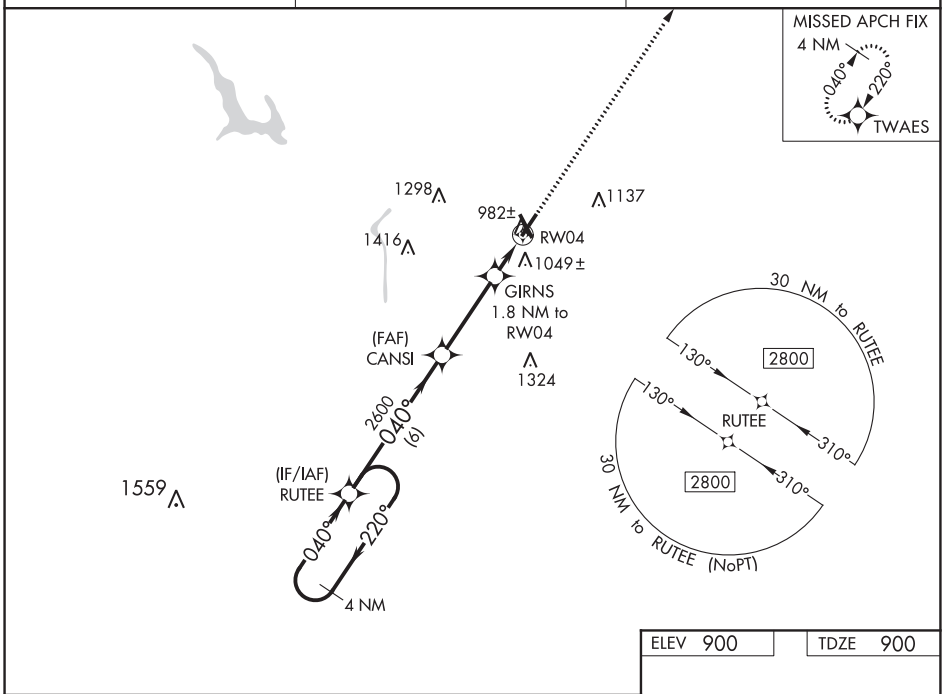
RNAV (GPS) RWY 4
ZANESVILLE MUNI (ZZV)

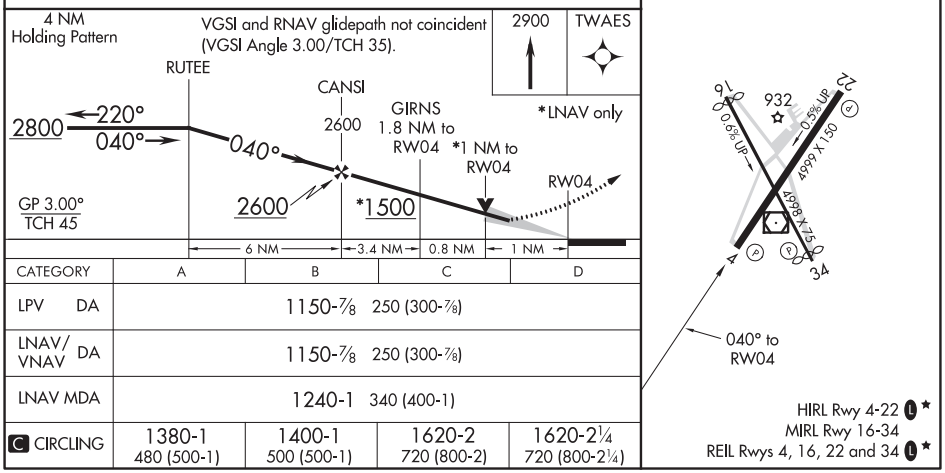
WAAS CH 72639 W04A	APP CRS 040°	Rwy ldg 4999 TDZE 900 Apt Elev 900

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using Newark altimeter setting. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Newark altimeter setting and increase all LPV and LNAV/VNAV DA to 1214 and all visibilities to 1 SM, increase all MDA 80 feet; increase LNAV Cat C/D visibility ⅛ SM and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 2900 direct TWAES and hold.

ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	123.0 (CTAF) L★





CATEGORY	A	B	C	D
LPV DA	1150-⅞ 250 (300-⅞)			
LNAV/VNAV DA	1150-⅞ 250 (300-⅞)			
LNAV MDA	1240-1 340 (400-1)			
C CIRCLING	1380-1 480 (500-1)	1400-1 500 (500-1)	1620-2 720 (800-2)	1620-2¼ 720 (800-2¼)

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WAAS CH 78039 W22A	APP CRS 220°	Rwy ldg 4999 TDZE 892 Apt Elev 900

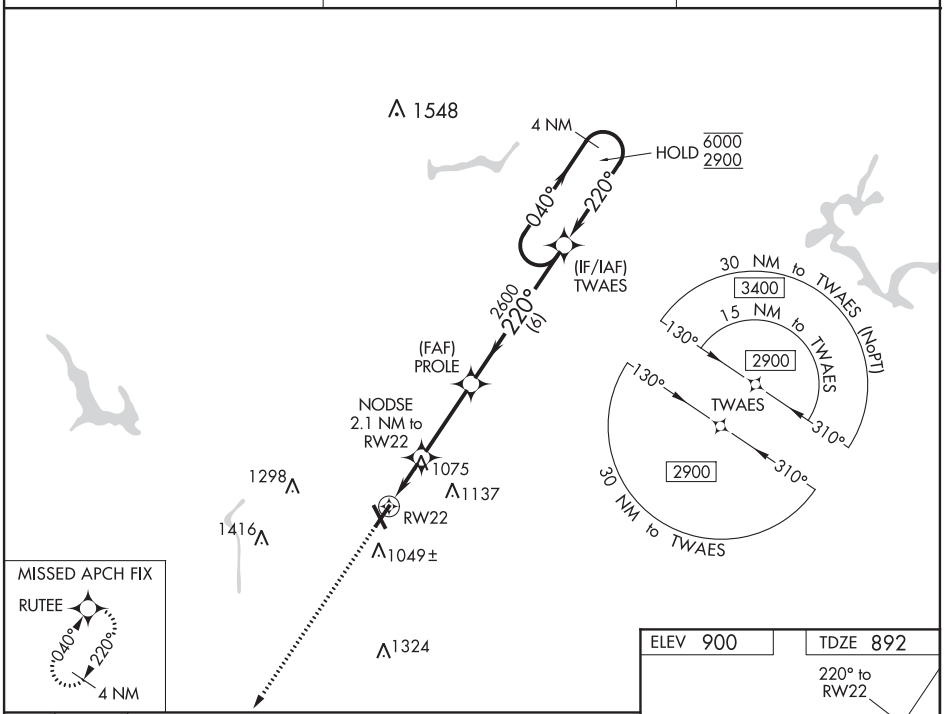
RNAV (GPS) RWY 22
ZANESVILLE MUNI (ZZV)

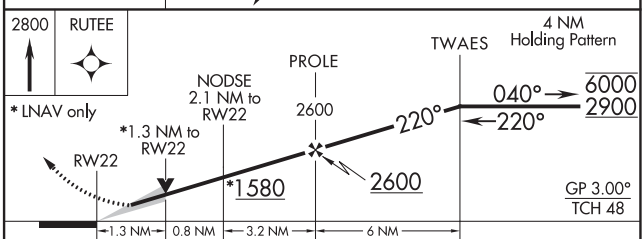
RNP APCH.

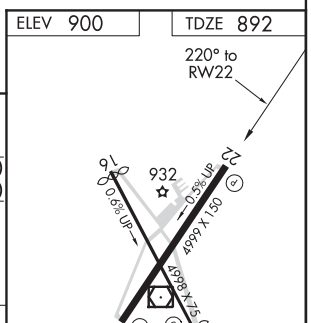
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C or above 54°C.

MISSED APPROACH: Climb to 2800 direct RUTEE and hold.

ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	123.0 (CTAF) L★







CATEGORY	A	B	C	D
LPV DA	1092-¾ 200 (200-¾)			
LNAV/VNAV DA	1297-1⅛ 405 (400-1⅛)			
LNAV MDA	1340-1 448 (500-1)		1340-1⅜ 448 (500-1⅜)	
C CIRCLING	1380-1 480 (500-1)	1420-1 520 (600-1)	1560-1¾ 660 (700-1¾)	1620-2¼ 720 (800-2¼)

HIRL Rwy 4-22 L★
MIRL Rwy 16-34
REIL Rwys 4, 16, 22 and 34 L★

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ZANESVILLE, OHIO

AL-864 (FAA)

20310

VOR RWY 4

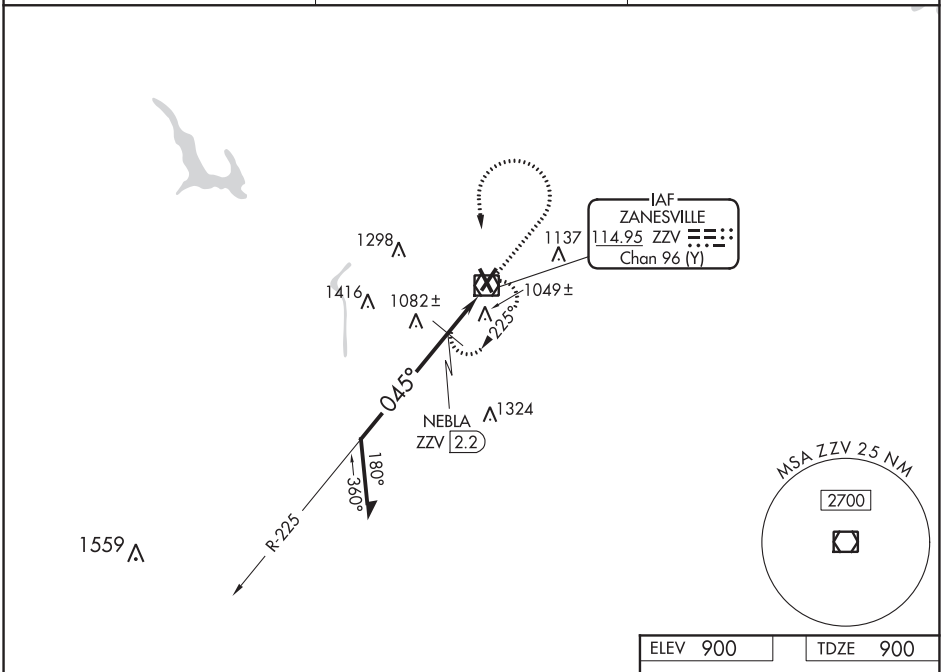
ZANESVILLE MUNI (ZZV)

VOR/DME ZZV 114.95 Chan 96 (Y)	APP CRS 045°	Rwy ldg 4999 TDZE 900 Apt Elev 900

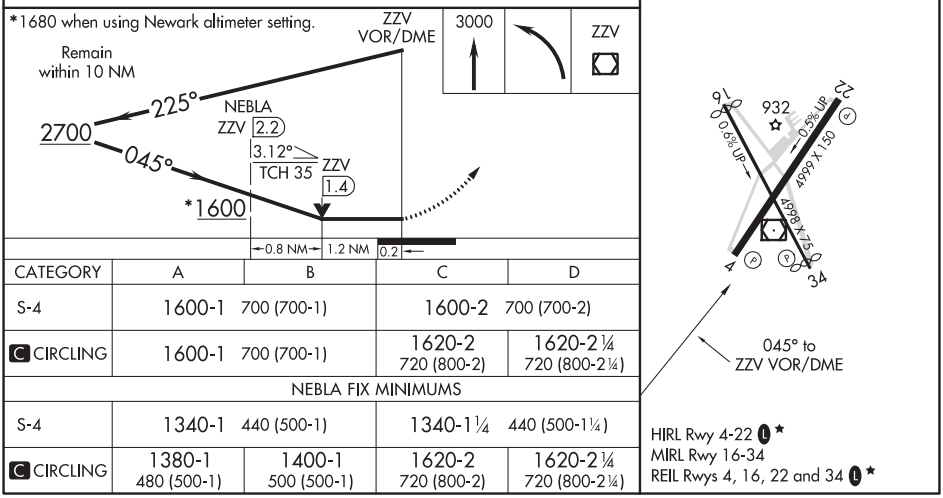
VDP NA when using Newark altimeter setting.
When local altimeter setting not received, Newark altimeter setting and increase all MDA 80 feet; increase S-4 and Circling Cat B visibility ¼ SM and Cat C/D ½ SM, NEBLA fix minimums increase S-4 Cat C/D visibility ⅛ SM and Circling Cat C/D ¼ SM.

MISSED APPROACH:
Climb to 3000 then left turn direct ZZV VOR/DME and hold.

ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	123.0 (CTAF) L★



ELEV 900 | TDZE 900



CATEGORY	A	B	C	D
S-4	1600-1 700 (700-1)		1600-2 700 (700-2)	
C CIRCLING	1600-1 700 (700-1)		1620-2 720 (800-2)	1620-2¼ 720 (800-2¼)
NEBLA FIX MINIMUMS				
S-4	1340-1 440 (500-1)		1340-1¼ 440 (500-1¼)	
C CIRCLING	1380-1 480 (500-1)	1400-1 500 (500-1)	1620-2 720 (800-2)	1620-2¼ 720 (800-2¼)

HIRL Rwy 4-22 L★
MIRL Rwy 16-34
REIL Rwys 4, 16, 22 and 34 L★

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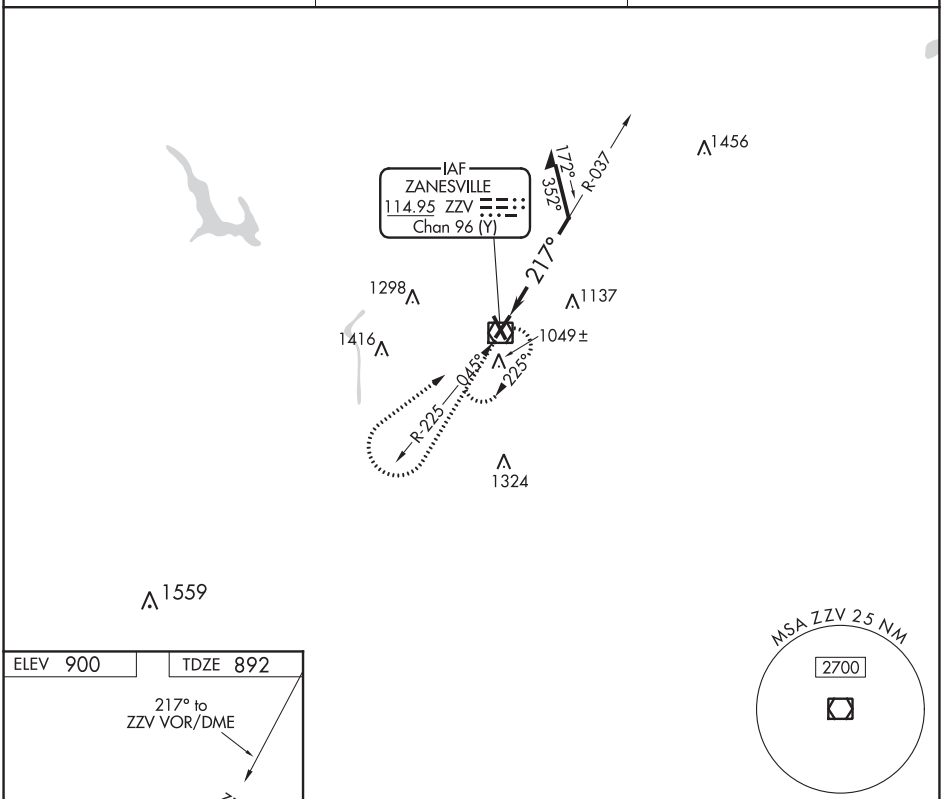
VOR/DME ZZV 114.95 Chan 96 (Y)	APP CRS 217°	Rwy ldg 4999 TDZE 892 Apt Elev 900

VOR RWY 22
ZANESVILLE MUNI (ZZV)

VDP NA when using Newark altimeter setting. When local altimeter setting not received, use Newark altimeter setting and increase all MDA 80 feet; increase S-22 Cat A visibility ¼ SM and Circling Cat C/D visibility ¼ SM.

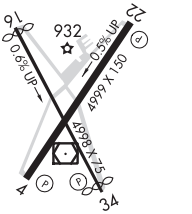
MISSED APPROACH: Climb to 3000 then right turn direct ZZV VOR/DME and hold.

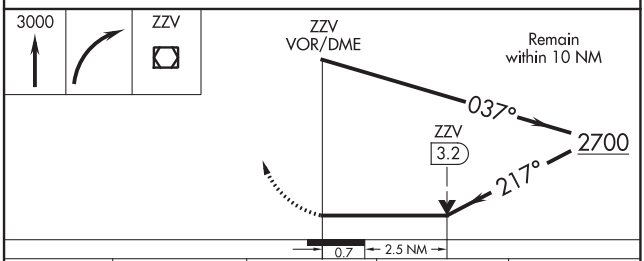
ASOS	INDIANAPOLIS CENTER	UNICOM
114.95	124.45 370.9	123.0 (CTAF)



ELEV 900 | TDZE 892

217° to ZZV VOR/DME





CATEGORY	A	B	C	D
S-22	1720-1 828 (900-1)	1720-1¼ 828 (900-1¼)	1720-2½	828 (900-2½)
CIRCLING	1720-1¼	820 (900-1¼)	1720-2½ 820 (900-2½)	1720-2¾ 820 (900-2¾)

HIRL Rwy 4-22
MIRL Rwy 16-34
REIL Rwys 4, 16, 22 and 34

INTENTIONALLY

LEFT

BLANK

EC-2, 25 FEB 2021 to 22 APR 2021

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE

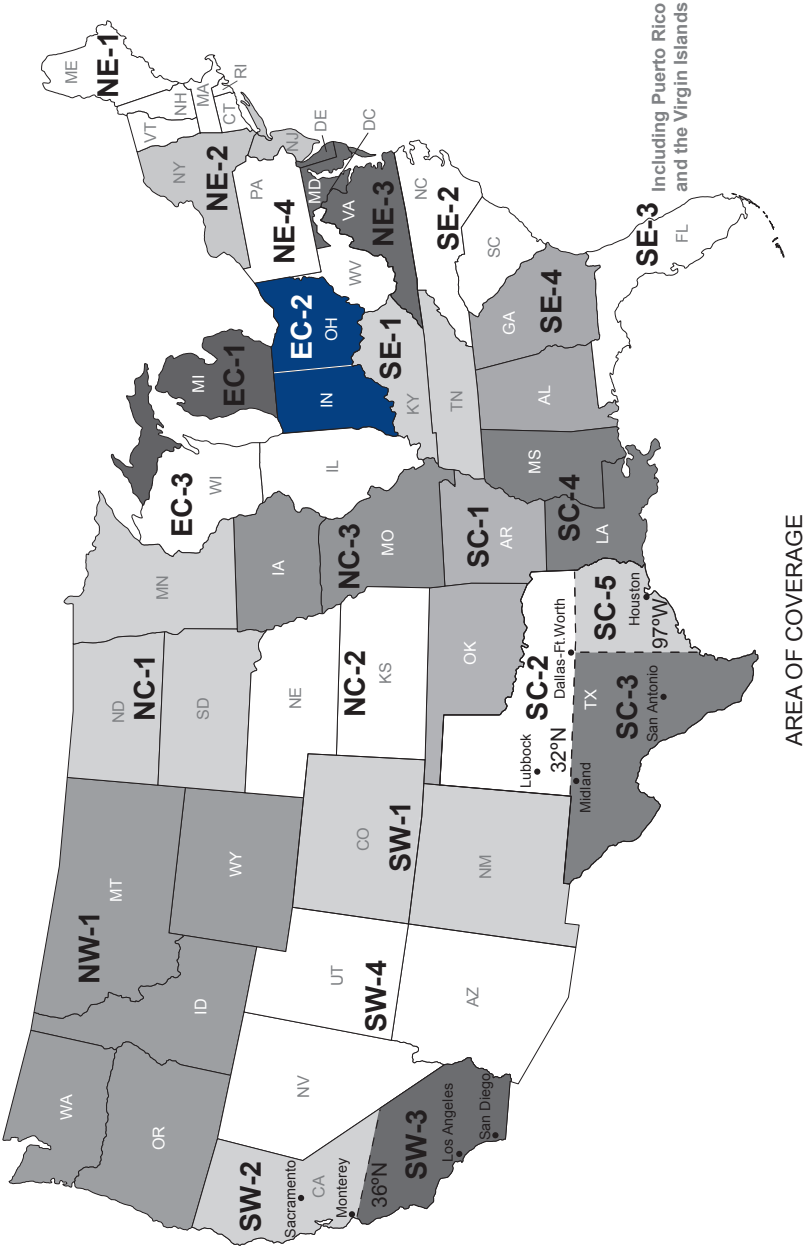
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275
2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590
VERTICAL PATH ANGLE 2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230
4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550
4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870
5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190
5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510
6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830
6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155
7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125
8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450
9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775
9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100
10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430

CLIMB/DESCENT TABLE 10042

U.S. TERMINAL PUBLICATION VOLUMES



FAA Product ID: BTPPEC2

NSN 7641015059759

EFF. DATE 21056

NGA REF. NO. OK-10-2859 TERMXFAABTPPEC2