

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

ANA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	600-2	800-2
A Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	
US Military (USA/USN/USAF)	See Service Regulations	

Note: For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

ADRIAN, MI

LENAWEE COUNTY (ADG).....**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23

NA when local weather not available.

ALMA, MI

GRATIOT COMMUNITY (AMN).....**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27

NA when local weather not available.

ALPENA, MI

ALPENA COUNTY RGNL (APN).....**ILS or LOC Rwy 1¹**
RNAV (GPS) Rwy 1²

¹NA when control tower closed.

²NA when local weather not available.

ANN ARBOR, MI

ANN ARBOR MUNI (ARB).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
VOR Rwy 6¹
VOR Rwy 24¹

NA when local weather not available.

¹Category D, 900-2½.

NAME ALTERNATE MINIMUMS

BAD AXE, MI

HURON COUNTY MEML (BAX).....**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 35

NA when local weather not available.

BATTLE CREEK, MI

BATTLE CREEK EXEC AT KELLOGG FLD (BTL).....**ILS or LOC Rwy 23R¹**
RNAV (GPS) Rwy 5L
RNAV (GPS) Rwy 23R

NA when local weather not available.

¹NA when control tower closed.

BEAVER ISLAND, MI

BEAVER ISLAND (SJB).....**RNAV (GPS) Rwy 27**

NA when local weather not available.

BELLAIRE, MI

ANTRIM COUNTY (ACB).....**RNAV (GPS) Rwy 2**

NA when local weather not available.

Category C, 1000-2¾; Category D, 1100-3.

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NAME ALTERNATE MINIMUMS

BENTON HARBOR, MISOUTHWEST MICHIGAN
RGNL (BEH).....RNAV (GPS) Rwy 10
VOR Rwy 28

Category D, 800-2¼.

BIG RAPIDS, MIROBEN-HOOD (RQB).....RNAV (GPS) Rwy 27
NA when local weather not available.
Category D, 900-2¼.**CADILLAC, MI**WEXFORD
COUNTY (CAD).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

Category D, 800-2¼.

CHARLEVOIX, MICHARLEVOIX
MUNI (CVX).....RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27

NA when local weather not available.

Category D, 800-2¼.

CHARLOTTE, MIFITCH H BEACH (FPK).....RNAV (GPS) Rwy 21
NA when local weather not available.**CHEBOYGAN, MI**CHEBOYGAN
COUNTY (SLH).....RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10

NA when local weather not available.

COLDWATER, MIBRANCH COUNTY
MEML (OEB).....RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

DETROIT, MICOLEMAN A YOUNG
MUNI (DET).....ILS or LOC Rwy 15¹
ILS or LOC Rwy 33¹
RNAV (GPS) Rwy 15²³
RNAV (GPS) Rwy 33²¹LOC, Category D, 900-2¼.²Category D, 900-2¼.³NA when local weather not available.

WILLOW

RUN (YIP).....ILS or LOC Rwy 5¹
ILS or LOC Rwy 23¹
RNAV (GPS) Rwy 5³
RNAV (GPS) Rwy 9²³
RNAV (GPS) Rwy 23³
VOR-A³¹LOC, Category D, 800-2¼.²NA when local weather not available.³Category D, 800-2¼.**DETROIT/GROSSE ILE, MI**GROSSE ILE
MUNI (ONZ).....NDB Rwy 4¹
RNAV (GPS) Rwy 4²
RNAV (GPS) Rwy 22²
VOR-A²

NA when local weather not available.

¹Categories A, B, 1000-2; Category C, 1000-2¼;
Category D, 1000-3.²Categories A, B, 900-2; Category C, 900-2¼;
Category D, 900-2¼.**ESCANABA, MI**DELTA COUNTY (ESC).....ILS or LOC Rwy 10¹
LOC BC Rwy 28²
RNAV (GPS) Rwy 1²
RNAV (GPS) Rwy 10²
RNAV (GPS) Rwy 19²
RNAV (GPS) Rwy 28²
VOR Rwy 1²

NA when local weather not available.

¹LOC, Category D, 900-2¼.²Category D, 900-2¼.**FLINT, MI**BISHOP
INTL (FNT).....ILS or LOC Rwy 9¹²
ILS or LOC Rwy 27¹²
RNAV (GPS) Rwy 9³
RNAV (GPS) Rwy 18³⁴
RNAV (GPS) Rwy 27³
RNAV (GPS) Rwy 36³
VOR Rwy 18³
VOR Rwy 36³¹NA when control tower closed.²LOC, Category D, 800-2¼.³Category D, 800-2¼.⁴NA when local weather not available.

NAME ALTERNATE MINIMUMS

FRANKFORT, MI

FRANKFORT DOW MEML
 FLD (FKS).....RNAV (GPS) Rwy 15
 RNAV (GPS) Rwy 33

NA when local weather not available.
 Category B, 900-2; Category C, 900-2¾.

FREMONT, MI

FREMONT
 MUNI (FFX).....RNAV (GPS) Rwy 1
 RNAV (GPS) Rwy 19

NA when local weather not available.
 Category D, 800-2¼.

GAYLORD, MI

GAYLORD RGNL (GLR).....RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27
 VOR Rwy 27

Category D, 800-2½.
 NA when local weather not available.

GRAND RAPIDS, MI

GERALD R FORD
 INTL (GRR).....ILS or LOC Rwy 26L¹²
 ILS or LOC Rwy 35¹
 RADAR-1¹
 RNAV (GPS) Rwy 8L²
 RNAV (GPS) Rwy 17²
 VOR Rwy 17²

¹NA when control tower closed.

²NA when local weather not available.

GRAYLING, MI

GRAYLING AAF (GOV).....RNAV (GPS) Rwy 14
 NA when local weather not available.
 Category D, 900-2¼.

HANCOCK, MI

HOUGHTON COUNTY
 MEML (CMX).....ILS or LOC Rwy 31¹
 LOC BC Rwy 13³
 RNAV (GPS) Rwy 7²³
 RNAV (GPS) Rwy 13²⁴
 RNAV (GPS) Rwy 25²⁴
 VOR Rwy 25²³

¹LOC, Category D, 800-2¼.

²NA when local weather not available.

³Category D, 800-2¼.

⁴Category D, 900-2¼.

HARBOR SPRINGS, MI

HARBOR
 SPRINGS (MGN).....RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.
 Category B, 900-2.

NAME ALTERNATE MINIMUMS

HOLLAND, MI

WEST MICHIGAN
 RGNL (BIV).....RNAV (GPS) Rwy 8
 RNAV (GPS) Rwy 26

NA when local weather not available.

HOUGHTON LAKE, MI

ROSCOMMON COUNTY - BLODGETT
 MEML (HTL).....RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27

NA when local weather not available.

HOWELL, MI

LIVINGSTON COUNTY SPENCER J
 HARDY (OZW).....RNAV (GPS) Rwy 13
 RNAV (GPS) Rwy 31

NA when local weather not available.

IONIA, MI

IONIA COUNTY (Y70).....RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

IRON MOUNTAIN-KINGSFORD, MI

FORD (IMT).....LOC/DME BC Rwy 19
 RNAV (GPS) Rwy 1
 RNAV (GPS) Rwy 19
 VOR Rwy 31

NA when local weather not available.

IRONWOOD, MI

GOGEBIC/IRON
 COUNTY (IWD).....RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27
 VOR Rwy 9

NA when local weather not available.
 Categories A, B, 900-2; Categories C, D, 1000-3.

JACKSON, MI

JACKSON COUNTY/REYNOLDS
 FLD (JXN).....ILS or LOC Rwy 25¹
 RNAV (GPS) Rwy 7

NA when local weather not available.

¹NA when tower closed.

KALAMAZOO, MI

KALAMAZOO/BATTLE CREEK
 INTL (AZO).....ILS or LOC Rwy 35¹²
 RADAR-1¹
 RNAV (GPS) Rwy 17³
 VOR Rwy 35³

¹NA when control tower closed.

²ILS, Category C, D, 700-2.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

LANSING, MI

CAPITAL REGION
INTL (LAN).....**ILS or LOC Rwy 10R¹**
ILS or LOC Rwy 28L²
RNAV (GPS) Rwy 6³
RNAV (GPS) Rwy 10R³
RNAV (GPS) Rwy 24³
RNAV (GPS) Rwy 28L³

¹ILS, Category C, 800-2; Category D, 900-3;

²LOC, Category D, 900-3.

³LOC, Category D, 900-3.

³Category D, 900-3.

LAPEER, MI

DUPONT/LAPEER (D95).....**RNAV (GPS) Rwy 18**
RNAV (GPS) Rwy 36
NA when local weather not available.

LUDINGTON, MI

MASON COUNTY (LDM).....**RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26
NA when local weather not available.
Category D, 900-2¼.

MACKINAC ISLAND, MI

MACKINAC
ISLAND (MCD).....**RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 26
VOR/DME-A
NA when local weather not available.

MANISTEE, MI

MANISTEE COUNTY/
BLACKER (MBL).....**ILS or LOC Rwy 28¹**
RNAV (GPS) Rwy 10²
RNAV (GPS) Rwy 28²
NA when local weather not available
¹LOC, Category C, 800-2¼; Category D, 900-3.
²Category C, 800-2¼; Category D, 900-2¼.

MANISTIQUE, MI

SCHOOLCRAFT
COUNTY (ISQ).....**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
NA when local weather not available.

MARSHALL, MI

BROOKS FLD (RMY).....**RNAV (GPS) Rwy 28**
NA when local weather not available.

MASON, MI

MASON JEWETT
FLD (TEW).....**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
NA when local weather not available.

NAME ALTERNATE MINIMUMS

MENOMINEE, MI

MENOMINEE
RGNL (MNM).....**RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
RNAV (GPS) Rwy 32
NA when local weather not available.
Category D, 800-2½.

MIDLAND, MI

JACK BARSTOW (IKW).....**RNAV (GPS) Rwy 6**
RNAV (GPS) Rwy 24
VOR-A
NA when local weather not available.

MONROE, MI

CUSTER (TTF).....**RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
NA when local weather not available.
Category C, 800-2¼; Category D, 800-2½.

MOUNT PLEASANT, MI

MOUNT PLEASANT
MUNI (MOP).....**RNAV (GPS) Rwy 9**
RNAV (GPS) Rwy 27
VOR Rwy 27
NA when local weather not available.
Category D, 1000-3.

MUSKEGON, MI

MUSKEGON
COUNTY (MKG).....**ILS or LOC Rwy 24¹**
ILS or LOC Rwy 32¹
RNAV (GPS) Rwy 6²
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 24²
RNAV (GPS) Rwy 32²
¹NA when control tower closed.
²NA when local weather not available.

NEWBERRY, MI

LUCE
COUNTY (ERY).....**RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.
Category D, 800-2¼.

OWOSSO, MI

OWOSSO
COMMUNITY (RNP).....**RNAV (GPS) Rwy 29**
VOR/DME Rwy 29
NA when local weather not available.

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NAME ALTERNATE MINIMUMS

PELLSTON, MI

PELLSTON RGNL/EMMET
COUNTY (PLN).....**ILS or LOC Rwy 32¹**
RNAV (GPS) Rwy 5²
RNAV (GPS) Rwy 23³
RNAV (GPS) Rwy 32³
VOR Rwy 23³

NA when local weather not available.
¹LOC, Category C, 900-2½; Category D, 1000-3.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.
³Category C, 900-2½; Category D, 1000-3.

PONTIAC, MI

OAKLAND COUNTY
INTL (PTK).....**ILS or LOC Rwy 9R¹**
LOC BC Rwy 27L¹
RNAV (GPS) Rwy 9R
RNAV (GPS) Rwy 27L

NA when local weather not available.
¹NA when tower closed.

PORT HURON, MI

ST CLAIR COUNTY
INTL (PHN).....**RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22

NA when local weather not available.

SAGINAW, MI

MBS INTL (MBS).....**ILS or LOC Rwy 5¹**
ILS or LOC Rwy 23¹
VOR Rwy 14²

¹NA when control tower closed.
²NA for NON-DME equipped aircraft when control
tower closed.

SAGINAW COUNTY/H W
BROWNE (HYX).....**RNAV (GPS) Rwy 10¹**
RNAV (GPS) Rwy 28
VOR/DME-A¹

Category C, 900-2½.
¹NA when local weather not available.

SAULT STE MARIE, MI

CHIPPEWA COUNTY
INTL (CIU).....**RNAV (GPS) Rwy 10**
RNAV (GPS) Rwy 28
RNAV (GPS) Rwy 34

NA when local weather not available.

SAULT STE MARIE MUNI/SANDERSON
FLD (ANJ).....**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

SOUTH HAVEN, MI

SOUTH HAVEN
AREA RGNL (LWA).....**RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
NA when local weather not available.
Category C, 800-2¼; Category D, 800-2½.

STURGIS, MI

KIRSCH MUNI (IRS).....**NDB Rwy 18**
NDB Rwy 24
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.
Category D, 800-2¼.

THREE RIVERS, MI

THREE RIVERS MUNI DR
HAINES (HAI).....**RNAV (GPS) Rwy 27**
VOR-A

NA when local weather not available.

TRAVERSE CITY, MI

CHERRY
CAPITAL (TVC).....**ILS or LOC Rwy 28¹²³**
RNAV (GPS) Rwy 10⁴
RNAV (GPS) Rwy 18¹⁵
RNAV (GPS) Rwy 28¹⁵
RNAV (GPS) Rwy 36¹⁵
VOR-A¹⁶

¹NA when local weather not available.
²NA when control tower closed.
³ILS, LOC, Categories A, B, 900-2; Category C,
900-2½; Category D, 1100-3.
⁴Categories A, B, 1200-2; Categories C, D, 1200-3.
⁵Category C, 900-2½; Category D, 1100-3.
⁶Categories A, B, 900-2; Category C, 900-2½;
Category D, 1100-3.

TROY, MI

OAKLAND/TROY (VLL).....**RNAV (GPS) Rwy 10**
NA when local weather not available.

WEST BRANCH, MI

WEST BRANCH
COMMUNITY (Y31).....**RNAV (GPS) Rwy 9¹²**
RNAV (GPS) Rwy 27³

¹NA when local weather not available.
²Category C, 800-2¼; Category D, 900-2¼.
³Category D, 900-2¼.