

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

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

**A**NA 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	<b>600-2</b>	<b>800-2</b>
<b>A</b> 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 1<sup>1</sup>  
RNAV (GPS) Rwy 7<sup>2</sup>  
RNAV (GPS) Rwy 25<sup>2</sup>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.

**ANN ARBOR, MI**

ANN ARBOR MUNI (ARB).....RNAV (GPS) Rwy 6  
RNAV (GPS) Rwy 24  
VOR Rwy 6<sup>1</sup>  
VOR Rwy 24<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category 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 23R<sup>1</sup>  
RNAV (GPS) Rwy 5L  
RNAV (GPS) Rwy 23R

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

**BEAVER ISLAND, MI**

BEAVER ISLAND (SJX).....RNAV (GPS) Rwy 9  
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, MI**

SOUTHWEST MICHIGAN  
RGNL (BEH).....RNAV (GPS) Rwy 10  
VOR Rwy 28

Category D, 800-2¼.

**BIG RAPIDS, MI**

ROBEN-HOOD (RQB).....RNAV (GPS) Rwy 27

NA when local weather not available.  
Category D, 900-2¾.

**CADILLAC, MI**

WEXFORD  
COUNTY (CAD).....RNAV (GPS) Rwy 7  
RNAV (GPS) Rwy 25

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

**CARO, MI**

TUSCOLA  
AREA (CFS).....RNAV (GPS) Rwy 6<sup>1</sup>  
RNAV (GPS) Rwy 24<sup>1</sup>  
VOR Rwy 10<sup>2</sup>

NA when local weather not available.  
<sup>1</sup>Category C, 900-2¾.  
<sup>2</sup>Categories A, B, 900-2; Category C, 900-2¾.

**CHARLEVOIX, MI**

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

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

**CHARLOTTE, MI**

FITCH 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, MI**

BRANCH COUNTY  
MEML (OEB).....RNAV (GPS) Rwy 7  
RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**DETROIT, MI**

COLEMAN A YOUNG  
MUNI (DET).....ILS or LOC Rwy 15<sup>1</sup>  
ILS or LOC Rwy 33<sup>1</sup>  
RNAV (GPS) Rwy 15<sup>2</sup>  
RNAV (GPS) Rwy 33<sup>2</sup>

NA when local weather not available.

<sup>1</sup>LOC, Category D, 900-2¾.  
<sup>2</sup>Category D, 900-2¾.

WILLOW RUN (YIP).....ILS or LOC Rwy 5<sup>1</sup>  
ILS or LOC Rwy 23<sup>1</sup>  
RNAV (GPS) Rwy 5<sup>2</sup>  
RNAV (GPS) Rwy 9<sup>2</sup>  
RNAV (GPS) Rwy 23<sup>2</sup>  
VOR-A<sup>2</sup>

<sup>1</sup>LOC, Category D, 800-2¼.  
<sup>2</sup>Category D, 800-2¼.

**DETROIT/GROSSE ILE, MI**

GROSSE ILE MUNI (ONZ).....RNAV (GPS) Rwy 4  
RNAV (GPS) Rwy 22  
VOR-A<sup>1</sup>

Categories A, B, 900-2; Category C, 900-2½;  
Category D, 900-2¾.

<sup>1</sup>NA when local weather not available.

**ESCANABA, MI**

DELTA COUNTY (ESC).....ILS or LOC Rwy 10<sup>1</sup>  
LOC BC Rwy 28<sup>2</sup>  
RNAV (GPS) Rwy 1<sup>2</sup>  
RNAV (GPS) Rwy 10<sup>2</sup>  
RNAV (GPS) Rwy 19<sup>2</sup>  
RNAV (GPS) Rwy 28<sup>2</sup>  
VOR Rwy 1<sup>2</sup>

NA when local weather not available.

<sup>1</sup>LOC, Category D, 900-2¾.  
<sup>2</sup>Category D, 900-2¾.

**FLINT, MI**

BISHOP INTL (FNT).....ILS or LOC Rwy 9<sup>12</sup>  
ILS or LOC Rwy 27<sup>12</sup>  
RNAV (GPS) Rwy 9<sup>3</sup>  
RNAV (GPS) Rwy 18<sup>34</sup>  
RNAV (GPS) Rwy 27<sup>3</sup>  
RNAV (GPS) Rwy 36<sup>3</sup>  
VOR Rwy 18<sup>3</sup>  
VOR Rwy 36<sup>3</sup>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category D, 800-2¼.

<sup>3</sup>Category D, 800-2¼.

<sup>4</sup>NA when local weather not available.

**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.

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**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

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

**GRAND RAPIDS, MI**

GERALD R FORD  
INTL (GRR).....ILS or LOC Rwy 26L<sup>12</sup>  
ILS or LOC Rwy 35<sup>1</sup>  
RNAV (GPS) Rwy 8L<sup>2</sup>  
RNAV (GPS) Rwy 17<sup>2</sup>  
RNAV (GPS) Rwy 35<sup>2</sup>  
VOR Rwy 17<sup>2</sup>

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>NA when local weather not available.

**GRAYLING, MI**

GRAYLING AAF (GOV)..... RNAV (GPS) Rwy 14  
NA when local weather not available.  
Category D, 900-2½.

**HANCOCK, MI**

HOUGHTON COUNTY  
MEML (CMX).....ILS or LOC Rwy 32<sup>1</sup>  
LOC BC Rwy 14<sup>2</sup>  
RNAV (GPS) Rwy 7<sup>2</sup>  
RNAV (GPS) Rwy 14<sup>2</sup>  
RNAV (GPS) Rwy 25<sup>2</sup>  
RNAV (GPS) Rwy 32<sup>2</sup>  
VOR Rwy 25<sup>2</sup>

NA when local weather not available.  
<sup>1</sup>LOC, Category D, 800-2¼.  
<sup>2</sup>Category D, 800-2¼.

**HARBOR SPRINGS, MI**

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

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

**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.

NAME ALTERNATE MINIMUMS

**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).....RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19

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 25<sup>1</sup>  
RNAV (GPS) Rwy 7  
RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 25  
RNAV (GPS) Rwy 32

NA when local weather not available.  
<sup>1</sup>NA when tower closed.

**KALAMAZOO, MI**

KALAMAZOO/BATTLE CREEK  
INTL (AZO).....RNAV (GPS) Rwy 17

NA when local weather not available.

**LANSING, MI**

CAPITAL REGION  
INTL (LAN).....ILS or LOC Rwy 10R<sup>1</sup>  
ILS or LOC Rwy 28L<sup>2</sup>  
RNAV (GPS) Rwy 6<sup>3</sup>  
RNAV (GPS) Rwy 10R<sup>3</sup>  
RNAV (GPS) Rwy 24<sup>3</sup>  
RNAV (GPS) Rwy 28L<sup>3</sup>

<sup>1</sup>ILS, Category C, 800-2; Category D, 900-3;  
<sup>2</sup>LOC, Category D, 900-3.  
<sup>3</sup>LOC, Category D, 900-3.  
<sup>3</sup>Category D, 900-3.

**LAPEER, MI**

DUPONT/LAPEER (D95).....RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 36

NA when local weather not available.

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**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 28<sup>1</sup>**  
**RNAV (GPS) Rwy 10<sup>2</sup>**  
**RNAV (GPS) Rwy 28<sup>2</sup>**

NA when local weather not available  
<sup>1</sup>LOC, Category C, 800-2¼; Category D, 900-3.  
<sup>2</sup>Category 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.

**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, 800-2¼.

**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.

## NAME ALTERNATE MINIMUMS

**MOUNT PLEASANT, MI**

MOUNT PLEASANT  
 MUNI (MOP).....RNAV (GPS) Rwy 9  
**RNAV (GPS) Rwy 27**

NA when local weather not available.  
 Category D, 1000-3.

**MUSKEGON, MI**

MUSKEGON  
 COUNTY (MKG).....**ILS or LOC Rwy 24<sup>1</sup>**  
**ILS or LOC Rwy 32<sup>1</sup>**  
**RNAV (GPS) Rwy 6<sup>2</sup>**  
**RNAV (GPS) Rwy 14<sup>2</sup>**  
**RNAV (GPS) Rwy 24<sup>2</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**

<sup>1</sup>NA when control tower closed.  
<sup>2</sup>NA 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.

**PELLSTON, MI**

PELLSTON RGNL/EMMET  
 COUNTY (PLN).....**ILS or LOC Rwy 32<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>3</sup>**  
**RNAV (GPS) Rwy 32<sup>3</sup>**  
**VOR Rwy 23<sup>3</sup>**

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

**PONTIAC, MI**

OAKLAND COUNTY  
 INTL (PTK).....**ILS or LOC Rwy 9R<sup>1</sup>**  
**LOC BC Rwy 27L<sup>1</sup>**  
**RNAV (GPS) Rwy 9R**  
**RNAV (GPS) Rwy 27L**

NA when local weather not available.  
<sup>1</sup>NA 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.

NAME ALTERNATE MINIMUMS

**SAGINAW, MI**

MBS INTL (MBS).....ILS or LOC Rwy 5<sup>1</sup>  
ILS or LOC Rwy 23

NA when control tower closed.  
<sup>1</sup>NA when local weather not available.

SAGINAW COUNTY/H W

BROWNE (HYX).....RNAV (GPS) Rwy 10<sup>1</sup>  
RNAV (GPS) Rwy 28  
VOR/DME-A<sup>1</sup>

Category C, 900-2½.  
<sup>1</sup>NA when local weather not available.

**SAULT STE MARIE, MI**

CHIPPEWA COUNTY

INTL (CIU).....RNAV (GPS) Rwy 10  
RNAV (GPS) Rwy 16  
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.

**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 19  
NDB Rwy 24  
RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19

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

**THREE RIVERS, MI**

THREE RIVERS MUNI/

DR HAINES (HAI).....RNAV (GPS) Rwy 27

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**TRAVERSE CITY, MI**

CHERRY  
CAPITAL (TVC).....ILS or LOC Rwy 10<sup>123</sup>  
ILS or LOC Rwy 28<sup>124</sup>  
RNAV (GPS) Rwy 10<sup>5</sup>  
RNAV (GPS) Rwy 18<sup>16</sup>  
RNAV (GPS) Rwy 28<sup>16</sup>  
RNAV (GPS) Rwy 36<sup>16</sup>  
VOR-A<sup>17</sup>

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>NA when control tower closed.  
<sup>3</sup>LOC, Categories A, B, 1100-2; Categories C, D, 1100-3.  
<sup>4</sup>LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 1100-3.  
<sup>5</sup>Categories A, B, 1200-2; Categories C, D, 1200-3.  
<sup>6</sup>Category C, 900-2½; Category D, 1100-3.  
<sup>7</sup>Categories 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 9<sup>12</sup>  
RNAV (GPS) Rwy 27<sup>3</sup>

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

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