| WAAS CH 58207 W25A | APP CRS 252° | Rwy ldg 4872<br>TDZE 659<br>Apt Elev 684 |
|---|---|---|

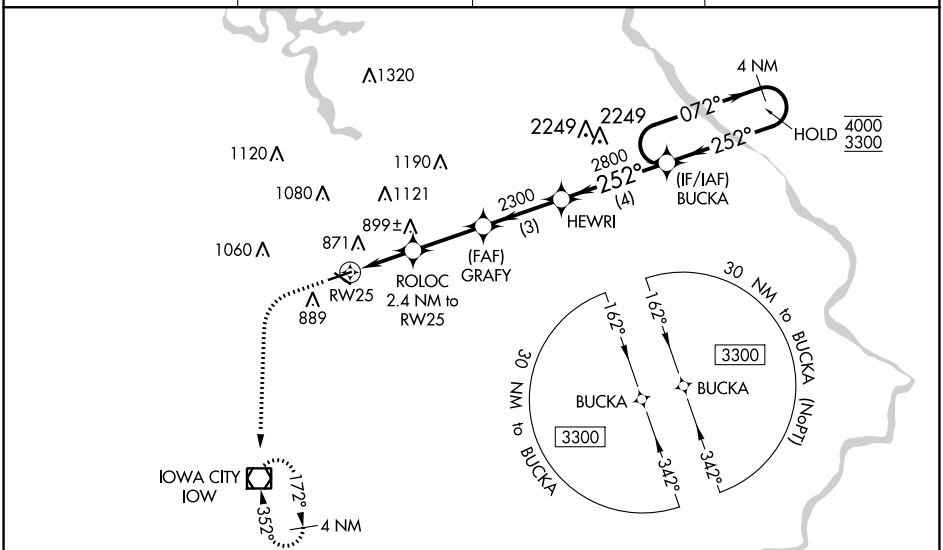
# RNAV (GPS) RWY 25
## IOWA CITY MUNI (IOW)

RNP APCH - GPS.

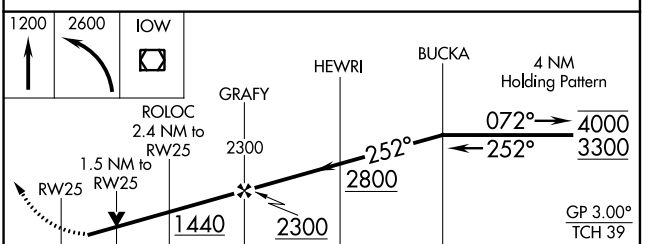
Circling Rwy 12 NA at night. Baro-VNAV and VDP NA when using Cedar Rapids altimeter setting. Rwy 25 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C or above 54°C. When local altimeter setting not received, use Cedar Rapids altimeter setting: increase LPV DA to 973 and all visibilities ⅛ SM, increase LNAV/VNAV DA to 1214 feet and all visibilities ¼ SM; increase all MDAs 80 feet and visibility Cats C/D ¼ SM.

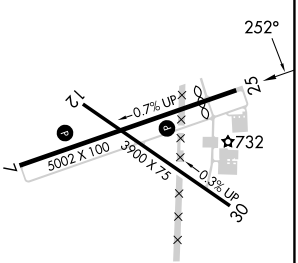
MISSED APPROACH: Climb to 1200 then climbing left turn to 2600 direct IOW VOR/DME and hold, continue climb-in-hold to 2600.

| ASOS | CEDAR RAPIDS APP CON★ | CLNC DEL | UNICOM |
|---|---|---|---|
| 128.075 | 119.7 266.8 | 119.05 | 122.8 (CTAF) L |




ELEV 684 D TDZE 659




| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| LPV DA | 909-¾ 250 (300-¾) | | | |
| LNAV/VNAV DA | 1150-1⅜ 491 (500-1⅜) | | | |
| LNAV MDA | 1160-1 501 (500-1) | | 1160-1⅜ 501 (500-1⅜) | |
| C CIRCLING | 1220-1 536 (600-1) | 1240-1 556 (600-1) | 1440-2¼ 756 (800-2¼) | 1440-2½ 756 (800-2½) |

REIL Rwys 7 and 25 L
MIRL Rwys 7-25 and 12-30 L

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| WAAS CH 86841 W30A | APP CRS 306° | Rwy ldg 3900 TDZE 658 Apt Elev 684 |
|---|---|---|

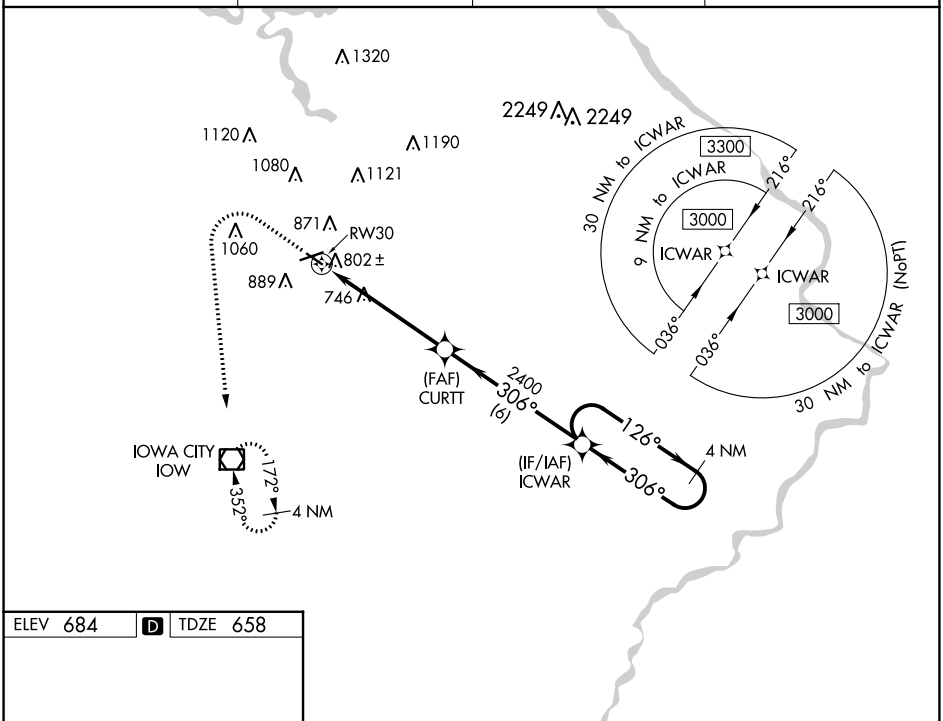
# RNAV (GPS) RWY 30
## IOWA CITY MUNI (IOW)

RNP APCH - GPS.

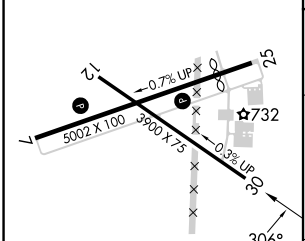
T A Circling Rwy 12 NA at night. Rwy 30 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Cedar Rapids altimeter setting and increase all MDA 80 feet, LP Cat C and D visibility ⅛ SM, LNAV and Circling Cat C and D visibility ¼ SM.

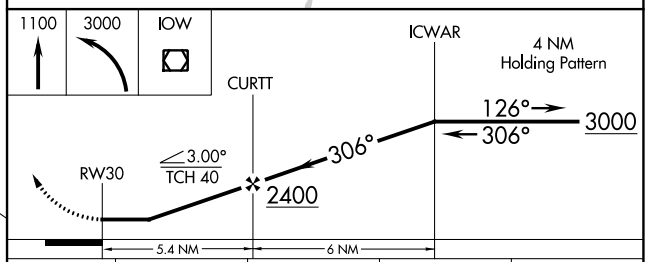
MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 direct IOW VOR/DME and hold.

| ASOS | CEDAR RAPIDS APP CON * | CLNC DEL | UNICOM |
|---|---|---|---|
| 128.075 | 119.7 266.8 | 119.05 | 122.8 (CTAF) L |




ELEV 684 D TDZE 658




| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| LP MDA | 1000-1 342 (400-1) | | | |
| LNAV MDA | 1060-1 402 (400-1) | | 1060-1⅛ 402 (400-1⅛) | |
| C CIRCLING | 1220-1 536 (600-1) | 1240-1 556 (600-1) | 1440-2¼ 756 (800-2¼) | 1440-2½ 756 (800-2½) |

REIL Rwys 7 and 25 L
MIRL Rwys 7-25 and 12-30 L



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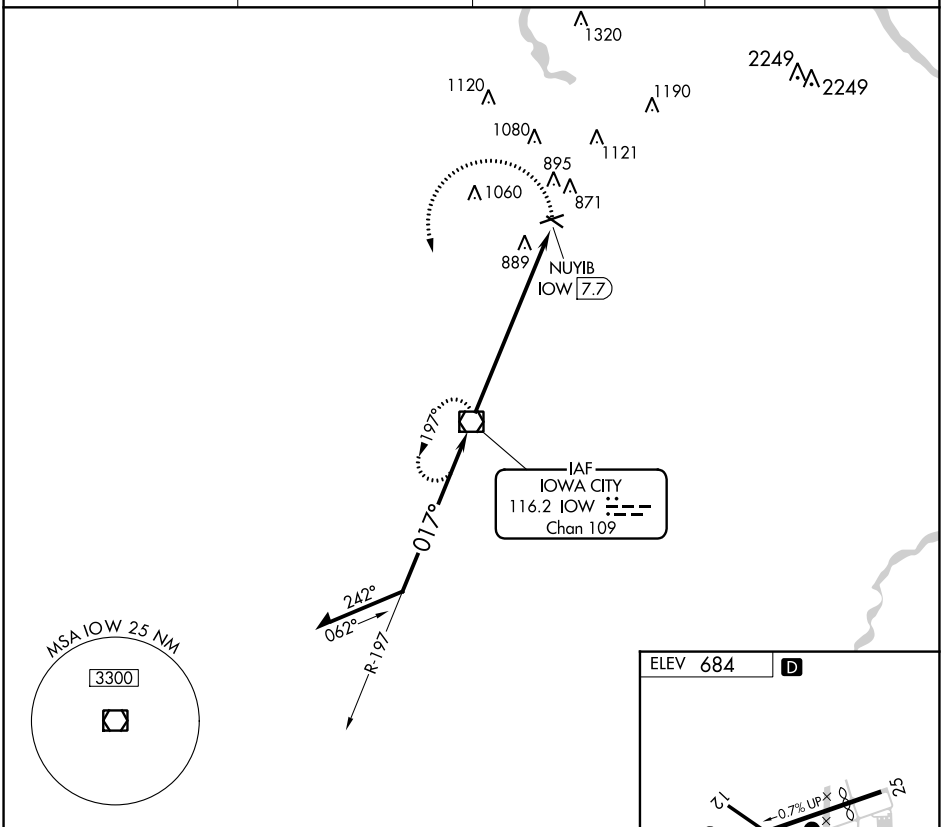
| VOR/DME IOW | APP CRS | Rwy ldg | N/A |
|---|---|---|---|
| 116.2 | 017° | TDZE | N/A |
| Chan 109 | | Apt Elev | 684 |

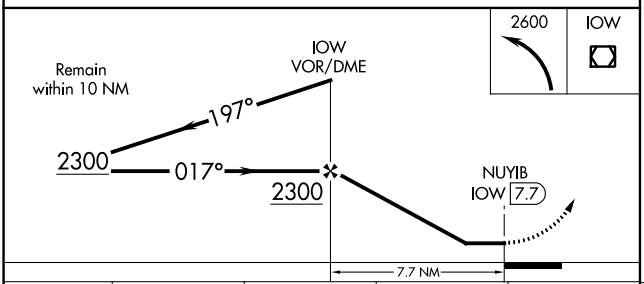
# VOR-A
## IOWA CITY MUNI (IOW)

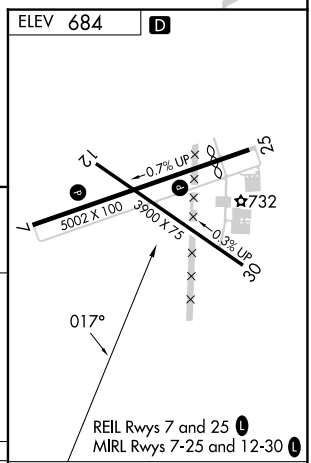
If local altimeter setting not received, use Cedar Rapids altimeter setting and increase all MDAs 80 feet. Rwy 7, 12 helicopter visibility reduction below 1 SM NA. Circling Rwy 12 NA at night.

MISSED APPROACH: Climbing left turn to 2600 direct IOW VOR/DME and hold.

| ASOS | CEDAR RAPIDS APP CON ★ | CLNC DEL | UNICOM |
|---|---|---|---|
| 128.075 | 119.7 266.8 | 119.05 | 122.8 (CTAF) L |




| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| C CIRCLING | 1280-1 596 (600-1) | | NA | |

FAF to MAP 7.7 NM

| Knots | 60 | 90 | 120 | 150 | 180 |
|---|---|---|---|---|---|
| Min:Sec | 7:42 | 5:08 | 3:51 | 3:05 | 2:34 |

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INSTRUMENT APPROACH PROCEDURE CHARTS

## IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. ▲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 ▲NA designation are not listed in this section. ▲ 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** |
| ▲Non-Standard or restrictions | As indicated below | As indicated below |
| Helicopters | For the selected approach:<br>Ceiling: 200' above published ceiling<br>Visibility: the greater of 1 SM visibility or the published visibility | |
| US Military<br>(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

**ALGONA, IA**
ALGONA MUNI (AXA)……....**RNAV (GPS) Rwy 12**
NA when local weather not available.

**AMES, IA**
AMES MUNI (AMW)……**RNAV (GPS) Rwy 19**
NA when local weather not available.

**ANKENY, IA**
ANKENY RGNL (IKV)……..…**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 22**
**RNAV (GPS) Rwy 36**
Category D, 900-2¾.

**ATLANTIC, IA**
ATLANTIC MUNI (AIO)…..……**RNAV (GPS) Rwy 2**
**RNAV (GPS) Rwy 20**
NA when local weather not available.
Category C, 800-2¼.

**AUDUBON, IA**
AUDUBON
COUNTY (ADU)…….....…**RNAV (GPS) Rwy 32**
NA when local weather not available.

**BOONE, IA**
BOONE MUNI (BNW)……..…**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
NA when local weather not available.

NAME — ALTERNATE MINIMUMS

**BRANSON, MO**
BRANSON (BBG)……..…..**RNAV (GPS) Rwy 14**[1]
**RNAV (GPS) Rwy 32**[2]
NA when local weather not available.
[1]Category C, 800-2¼; Category D, 800-2½.
[2]Category C, 1000-2¾; Category D, 1000-3.

**BURLINGTON, IA**
SOUTHEAST IOWA
RGNL (BRL)……..…**RNAV (GPS) Rwy 12**
**RNAV (GPS) Rwy 30**
**RNAV (GPS) Rwy 36**
**VOR Rwy 12**
**VOR Rwy 30**
NA when local weather not available.

**CAMDENTON, MO**
CAMDENTON MEML-LAKE
RGNL (OZS)……..**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
NA when local weather not available.

NAME ALTERNATE MINIMUMS

**CAPE GIRARDEAU, MO**
CAPE GIRARDEAU
RGNL (CGI)……..**ILS or LOC Rwy 10[12]**
**LOC BC Rwy 28[13]**
**RNAV (GPS) Rwy 2[3]**
**RNAV (GPS) Rwy 10[3]**
**RNAV (GPS) Rwy 20[3]**
**RNAV (GPS) Rwy 28[3]**
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.

**CARROLL, IA**
ARTHUR
N NEU (CIN)……**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
NA when local weather not available.

**CEDAR RAPIDS, IA**
THE EASTERN
IOWA (CID)……**ILS or LOC Rwy 9[1]**
**ILS or LOC Rwy 27[12]**
**RNAV (GPS) Rwy 9[3]**
**RNAV (GPS) Rwy 27[3]**
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.

**CENTERVILLE, IA**
CENTERVILLE
MUNI (TVK)……..……**RNAV (GPS) Rwy 16**
**RNAV (GPS) Rwy 34**
NA when local weather not available.

**CHARITON, IA**
CHARITON
MUNI (CNC)……..……**RNAV (GPS) Rwy 10**
**RNAV (GPS) Rwy 17**
NA when local weather not available.

**CHARLES CITY, IA**
NORTHEAST
IOWA RGNL (CCY)……**LOC Rwy 12**
**RNAV (GPS) Rwy 12**
**RNAV (GPS) Rwy 30**
NA when local weather not available.

**CHEROKEE, IA**
CHEROKEE COUNTY
RGNL (CKP)……..……..…**RNAV (GPS) Rwy 18**
Category C, 900-2½; Category D, 1000-3.

**CLARINDA, IA**
SCHENCK FLD (ICL)……....**RNAV (GPS) Rwy 2**
**RNAV (GPS) Rwy 20**
Category C, 800-2¼; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

**CLARION, IA**
CLARION
MUNI (CAV)…….....…**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 32**
NA when local weather not available.

**CLINTON, IA**
CLINTON MUNI (CWI)….……**ILS or LOC Rwy 3**
**RNAV (GPS) Rwy 3**
**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 21**
**RNAV (GPS) Rwy 32**
NA when local weather not available.

**CLINTON, MO**
CLINTON
RGNL (GLY)……**RNAV (GPS) Rwy 4**
**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 22**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**COLUMBIA, MO**
COLUMBIA RGNL (COU)……...**ILS or LOC Rwy 2[1]**
**RNAV (GPS) Rwy 2**
**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 20**
**RNAV (GPS) Rwy 31**
**VOR Rwy 13[2]**
**VOR Y Rwy 20**
**VOR Z Rwy 20**
NA when local weather not available.
[1]NA when control tower closed.
[2]Categories A, B, 1000-2; Categories C, D, 1000-3.

**COUNCIL BLUFFS, IA**
COUNCIL BLUFFS
MUNI (CBF)……**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
**VOR-A**
NA when local weather not available.

**CRESTON, IA**
CRESTON MUNI (CSQ)…...**RNAV (GPS) Rwy 16**
**RNAV (GPS) Rwy 34**
NA when local weather not available.

**DAVENPORT, IA**
DAVENPORT
MUNI (DVN)……**ILS or LOC Rwy 15**
**RNAV (GPS) Rwy 3**
**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 21**
**RNAV (GPS) RWY 33**
**VOR Rwy 3**
**VOR Rwy 21**
NA when local weather not available.

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NAME ALTERNATE MINIMUMS

**DECORAH, IA**
DECORAH MUNI (DEH)…….**RNAV (GPS) Rwy 11**
**RNAV (GPS) Rwy 29**
NA when local weather not available.

**DENISON, IA**
DENISON MUNI (DNS)….....**RNAV (GPS) Rwy 12**
**RNAV (GPS) Rwy 30**
NA when local weather not available.
Category C, 900-2½.

**DES MOINES, IA**
DES MOINES
INTL (DSM)……**ILS or LOC Rwy 5[1]**
**ILS or LOC Rwy 13[1]**
**ILS or LOC Rwy 31[2]**
**RNAV (GPS) Rwy 5[34]**
**RNAV (GPS) Rwy 13[3]**
**RNAV (GPS) Rwy 23[34]**
**RNAV (GPS) Rwy 31[3]**
**VOR Rwy 23[5]**
[1]LOC, Category D, 900-2½.
[2]LOC, Category D, 900-2½; Category E, 900-2¾.
[3]Category D, 900-2½.
[4]NA when local weather not available.
[5]Category C, 800-2½; Category D, 900-2½.

**DUBUQUE, IA**
DUBUQUE
RGNL (DBQ)……..…...**ILS or LOC Rwy 36[12]**
**LOC Rwy 31[13]**
**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 18[3]**
**RNAV (GPS) Rwy 31**
**RNAV (GPS) Rwy 36**
**VOR Rwy 13[3]**
**VOR Rwy 31[4]**
**VOR Rwy 36[3]**
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.
[4]Category C, 800-2¼; Category D, 800-2½.

**ESTHERVILLE, IA**
ESTHERVILLE
MUNI (EST)……...**RNAV (GPS) Rwy 16**
**RNAV (GPS) Rwy 34**
NA when local weather not available.

**FAIRFIELD, IA**
FAIRFIELD MUNI (FFL)……...**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**FARMINGTON, MO**
FARMINGTON
RGNL (FAM)……**RNAV (GPS) Rwy 2**
**RNAV (GPS) Rwy 20**
NA when local weather not available.

**FOREST CITY, IA**
FOREST CITY
MUNI (FXY)…….....**RNAV (GPS) Rwy 15[1]**
**RNAV (GPS) Rwy 33[1]**
**VOR-A**
NA when local weather not available.
[1]Category C, 900-2½; Category D, 900-2¾.

**FORT DODGE, IA**
FORT DODGE
RGNL (FOD)……...**RNAV (GPS) Rwy 6**
**RNAV (GPS) Rwy 12**
**RNAV (GPS) Rwy 24**
**RNAV (GPS) Rwy 30**
NA when local weather not available.
Category D, 1000-3.

**FORT LEONARD WOOD, MO**
WAYNESVILLE-ST ROBERT RGNL FORNEY
FLD (TBN)……..…..…..**ILS or LOC Rwy 15[1]**
**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
**VOR Rwy 15[1]**
**VOR Rwy 33[1]**
NA when local weather not available.
[1]NA when control tower closed.

**FORT MADISON, IA**
FORT MADISON
MUNI (FSW)……**RNAV (GPS) Rwy 17[1]**
**RNAV (GPS) Rwy 35[1]**
**VOR/DME-A[2]**
[1]Category D, 800-2½.
[2]NA when local weather not available.

**GRINNELL, IA**
GRINNELL RGNL (GGI)…….**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
**VOR/DME Rwy 31**
NA when local weather not available.

**HARRISONVILLE, MO**
LAWRENCE SMITH
MEML (LRY)…….....…**RNAV (GPS) Rwy 17**
**RNAV (GPS) Rwy 35**
NA when local weather not available.

**INDEPENDENCE, IA**
JAMES H CONNELL FLD AT INDEPENDENCE
MUNI (IIB)…….....**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.
Category D, 1500-3.

NAME ALTERNATE MINIMUMS

**IOWA CITY, IA**
IOWA CITY
MUNI (IOW)…….....**RNAV (GPS) Rwy 25[1]**
**RNAV (GPS) Rwy 30[1]**
**VOR-A**
NA when local weather not available.
[1]Category C, 800-2¼; Category D, 800-2½.

**IOWA FALLS, IA**
IOWA FALLS
MUNI (IFA)….....**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
NA when local weather not available.

**JEFFERSON CITY, MO**
JEFFERSON CITY
MEML (JEF)…….....**ILS or LOC Rwy 30[1]**
**RNAV (GPS) Rwy 12[2]**
**RNAV (GPS) Rwy 30[2]**
NA when local weather not available.
[1]ILS, Categories A, B, 800-2; Category C, 800-2¼; Category D, 1100-3; LOC, Category C, 800-2¼; Category D, 1100-3.
[2]Category C, 800-2¼; Category D, 1100-3.

**JOPLIN, MO**
JOPLIN RGNL (JLN)……**ILS or LOC Rwy 13[1]**
**ILS or LOC Rwy 18[2]**
[1]NA when tower closed.
[2]NA when control tower closed.

**KAISER/LAKE OZARK, MO**
LEE C FINE
MEML (AIZ)…….....……**RNAV (GPS) Rwy 4**
**RNAV (GPS) Rwy 22**
**VOR Rwy 4**
NA when local weather not available.

**KANSAS CITY, MO**
CHARLES B WHEELER
DOWNTOWN (MKC)……..**ILS or LOC Rwy 4[1]**
**ILS or LOC Rwy 19[2]**
**RNAV (GPS) Rwy 4[3]**
**RNAV (GPS) Y Rwy 19[3]**
[1]LOC, Categories A, B, 900-2; Categories C, D, 900-2½.
[2]LOC, Category D, 800-2½.
[3]Category D, 800-2½.

**KEOKUK, IA**
KEOKUK MUNI (EOK)……..…**RNAV (GPS) Rwy 8**
**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 26**
**RNAV (GPS) Rwy 32**
NA when local weather not available.

**KIRKSVILLE, MO**
KIRKSVILLE RGNL (IRK)……..**ILS or LOC Rwy 36**
NA when local weather not available.

NAME ALTERNATE MINIMUMS

**KNOXVILLE, IA**
KNOXVILLE
MUNI (OXV)……..**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
NA when local weather not available.

**LAMONI, IA**
LAMONI MUNI (LWD)…….....**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**LE MARS, IA**
LE MARS MUNI (LRJ)……..**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**LEE'S SUMMIT, MO**
LEE'S SUMMIT
MUNI (LXT)……..……..**RNAV (GPS) Rwy 11**
**RNAV (GPS) Rwy 18[1]**
**RNAV (GPS) Rwy 29[1]**
**RNAV (GPS) Rwy 36[1]**
**VOR-A[1]**
Category C, 800-2¼; Category D, 800-2½.
[1]NA when local weather not available.

**MALDEN, MO**
MALDEN RGNL (MAW)……...**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 32**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**MARSHALLTOWN, IA**
MARSHALLTOWN
MUNI (MIW)……**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
NA when local weather not available.
Category D, 900-2¾.

**MASON CITY, IA**
MASON CITY
MUNI (MCW)……**ILS or LOC Rwy 36**
**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 30**
**RNAV (GPS) Rwy 36**
**VOR Rwy 36**
NA when local weather not available.

**MAURICE, IA**
SIOUX COUNTY
RGNL (SXK)……...…….....**RNAV (GPS) Rwy 17**
**RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2¼.

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NAME ALTERNATE MINIMUMS

**MOBERLY, MO**
OMAR N
BRADLEY (MBY)…….**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
NA when local weather not available.

**MONETT, MO**
MONETT RGNL (HFJ)……**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.
Category D, 800-2½.

**MONTICELLO, IA**
MONTICELLO
RGNL (MXO)……**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
NA when local weather not available.

**MOSBY, MO**
MIDWEST NTL AIR
CENTER (GPH)……..**RNAV (GPS) Rwy 36**
NA when local weather not available.

**MOUNT PLEASANT, IA**
MOUNT PLEASANT
MUNI (MPZ)……..……**RNAV (GPS) Rwy 15**[1]
**RNAV (GPS) Rwy 33**
NA when local weather not available.
[1]Categories A, B, C, 800-2¼.

**MUSCATINE, IA**
MUSCATINE
MUNI (MUT)……**RNAV (GPS) Rwy 6**[1]
**RNAV (GPS) Rwy 12**
**RNAV (GPS) Rwy 24**[2]
**RNAV (GPS) Rwy 30**
NA when local weather not available.
[1]Categories A, B, C, 800-2½; Category D, 1000-3.
[2]Category D, 1000-3.

**NEOSHO, MO**
NEOSHO HUGH
ROBINSON (EOS)……..**RNAV (GPS) Rwy 1**
**RNAV (GPS) Rwy 19**
NA when local weather not available.

**NEWTON, IA**
NEWTON MUNI-EARL JOHNSON
FLD (TNU)……..……..**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 32**
**VOR Rwy 14**
NA when local weather not available.

**OELWEIN, IA**
OELWEIN
MUNI (OLZ)……..**RNAV (GPS) Rwy 13**
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

**OSCEOLA, IA**
OSCEOLA
MUNI (I75)……...**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**OSKALOOSA, IA**
OSKALOOSA
MUNI (OOA)……**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
NA when local weather not available.

**OTTUMWA, IA**
OTTUMWA
RGNL (OTM)……...**ILS or LOC Rwy 31**
**LOC BC Rwy 13**
**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 31**
**VOR Rwy 13**
NA when local weather not available.

**PELLA, IA**
PELLA MUNI (PEA)……..……**NDB Rwy 34**
**RNAV (GPS) Rwy 16**
**RNAV (GPS) Rwy 34**
NA when local weather not available.

**PERRY, IA**
PERRY MUNI (PRO)……...**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 32**
NA when local weather not available.
Category D, 900-2¾.

**PERRYVILLE, MO**
PERRYVILLE
RGNL (PCD)……..…..…...**RNAV (GPS) Rwy 2**[1]
**RNAV (GPS) Rwy 20**[2]
**VOR-A**[2]
NA when local weather not available.
[1]Categories A, B, C, D, 900-3.
[2]Category C, 900-2¾; Category D, 900-3.

**POPLAR BLUFF, MO**
POPLAR BLUFF RGNL
BUSINESS (POF)……..…...**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.

**RED OAK, IA**
RED OAK
MUNI (RDK)…….....**RNAV (GPS) Rwy 5**[1]
**RNAV (GPS) Rwy 17**
NA when local weather not available.
[1]Categories A, B, 800-2¼.

**ROLLA-VICHY, MO**
ROLLA NTL (VIH)……..**RNAV (GPS) Rwy 4**
**VOR Rwy 22**
**VOR/DME Rwy 4**
NA when local weather not available.

NAME ALTERNATE MINIMUMS

## ST. CHARLES, MO

ST CHARLES COUNTY RGNL/
SMARTT FLD (SET)…….. **RNAV (GPS) Rwy 18**
**VOR Rwy 18**
NA when local weather not available.
Category C, 800-2¼.

## ST. JOSEPH, MO

ROSECRANS
MEML (STJ)…….....**ILS or LOC Rwy 35[12]**
**LOC BC Rwy 17[13]**
**RNAV (GPS) Rwy 13[45]**
**RNAV (GPS) Rwy 17[46]**
**RNAV (GPS) Rwy 31[34]**
**RNAV (GPS) Rwy 35[46]**
**VOR or TACAN Rwy 17[6]**
**VOR or TACAN Rwy 35[6]**
[1]NA when control tower closed.
[2]LOC, Category C, 800-2¼; Category D, 900-2¾; Category E, 1000-3.
[3]Category C, 800-2¼; Category D, 900-2¾.
[4]NA when local weather not available.
[5]Category C, 800-2½; Category D, 900-2¾.
[6]Category C, 800-2¼; Category D, 900-2¾; Category E, 1000-3.

## ST. LOUIS, MO

SPIRIT OF
ST. LOUIS (SUS)……..……..**ILS or LOC Rwy 8R[1]**
**ILS or LOC Rwy 26L[234]**
**RNAV (GPS) Rwy 8L[2]**
**RNAV (GPS) Rwy 8R[5]**
**RNAV (GPS) Rwy 26L[25]**
**RNAV (GPS) Rwy 26R[2]**
[1]ILS, LOC, Category D, 900-3.
[2]NA when local weather not available.
[3]NA when control tower closed.
[4]LOC, Category D, 900-3.
[5]Category D, 900-3.

## SEDALIA, MO

SEDALIA
RGNL (DMO)……..**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**
NA when local weather not available.
Category D, 800-2¼.

## SHELDON, IA

SHELDON
RGNL (SHL)……**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
NA when local weather not available.

## SHENANDOAH, IA

SHENANDOAH
MUNI (SDA)…….....**RNAV (GPS) Rwy 4**
**VOR/DME Rwy 12**
NA when local weather not available.

NAME ALTERNATE MINIMUMS

## SIOUX CITY, IA

SIOUX GATEWAY/BRIG GENERAL BUD
DAY FLD (SUX)……...**ILS or LOC Rwy 13[12]**
**ILS or LOC Rwy 31[13]**
**RNAV (GPS) Rwy 13[4]**
**RNAV (GPS) Rwy 18[5]**
**RNAV (GPS) Rwy 31[4]**
**RNAV (GPS) Rwy 36[5]**
NA when local weather not available.
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼; Category E, 900-3.
[3]LOC, Category D, 800-2½; Category E, 900-3.
[4]Category D, 800-2½; Category E, 1000-3.
[5]Category D, 800-2½.

## SPENCER, IA

SPENCER
MUNI (SPW)……**RNAV (GPS) Rwy 12[1]**
**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 30[1]**
**RNAV (GPS) Rwy 36**
**VOR Rwy 30[1]**
NA when local weather not available.
[1]Category C, 800-2¼, Category D, 800-2½.

## SPRINGFIELD, MO

SPRINGFIELD-BRANSON
NTL (SGF)…….....….**ILS or LOC Rwy 2[1]**
**ILS or LOC Rwy 14[4]**
**RNAV (GPS) Rwy 2[2]**
**RNAV (GPS) Rwy 20[2]**
**RNAV (GPS) Rwy 32[2]**
**VOR/DME or TACAN Rwy 2[3]**
**VOR or TACAN Rwy 20[3]**
[1]ILS, Category D, 700-2, Category E, 900-3. LOC, Category E, 900-3.
[2]NA when local weather not available.
[3]Category E, 800-2¼.
[4]Category D, 700-2.

## VINTON, IA

VINTON VETERANS MEML
AIRPARK (VTI)……..….**RNAV (GPS) Rwy 9**
**RNAV (GPS) Rwy 27**
NA when local weather not available.

## WARRENSBURG, MO

SKYHAVEN (RCM)……..……**RNAV (GPS) Rwy 1**
**RNAV (GPS) Rwy 19**
**VOR-A**
NA when local weather not available.

## WASHINGTON, IA

WASHINGTON
MUNI (AWG)……...**RNAV (GPS) Rwy 13**
**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 31**
**RNAV (GPS) Rwy 36**
**VOR Rwy 36**
Category C, 800-2¼.

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| NAME | ALTERNATE MINIMUMS | NAME | ALTERNATE MINIMUMS |
|---|---|---|---|

## WASHINGTON, MO

WASHINGTON
RGNL (FYG)…….**RNAV (GPS) Rwy 15**
**RNAV (GPS) Rwy 33**
**VOR-A**

NA when local weather not available.
Category C, 1100-3.

## WATERLOO, IA

WATERLOO
RGNL (ALO)……..……..**ILS or LOC Rwy 12**[12]
**LOC BC Rwy 30**[12]
**RNAV (GPS) Rwy 12**[3]
**RNAV (GPS) Rwy 18**[3]
**RNAV (GPS) Rwy 30**[3]
**RNAV (GPS) Rwy 36**[3]
**VOR Rwy 12**[3]
**VOR Rwy 18**[34]

[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼.
[3]Category D, 800-2¼.
[4]NA when local weather not available.

## WEBSTER CITY, IA

WEBSTER CITY
MUNI (EBS)……..…….**RNAV (GPS) Rwy 14**
**RNAV (GPS) Rwy 32**

NA when local weather not available.

## WEST PLAINS, MO

WEST PLAINS
RGNL (UNO)……..……...**RNAV (GPS) Rwy 18**
**RNAV (GPS) Rwy 36**

NA when local weather not available.

# 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.

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## ALBIA, IA

### ALBIA MUNI (4C8)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

**Rwy 31**, 400-2¾ or std. w/min. climb of 215' per NM to 1400.

DEPARTURE PROCEDURE:

**Rwy 31**, climb heading 307° to 1600 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** trees beginning 44' from DER, 315' right of centerline, up to 1000' MSL.
Vehicles on road beginning 107' from DER, 140' left of centerline, up to 977' MSL.
Tree 964' from DER, 366' right of centerline, 1010' MSL.
Tree 1038' from DER, 477' right of centerline, 1015' MSL.
Crane and trees beginning 1132' from DER, 370' right of centerline, up to 1032' MSL.
Tree 1982' from DER, 207' left of centerline, 1022' MSL.
Tree 2066' from DER, 343' left of centerline, 1036' MSL.
**Rwy 31,** vehicles on road 47' from DER, 447' right of centerline, 976' MSL.
Vehicles on road and trees beginning 82' from DER, 371' right of centerline, up to 990' MSL.
Trees beginning 405' from DER, 349' right of centerline, up to 1007' MSL.
Tree 759' from DER, 472' right of centerline, 1013' MSL.
Trees beginning 795' from DER, 293' right of centerline, up to 1019' MSL.
Tower 2.0 NM from DER, 3475' left of centerline, 333' AGL/1293' MSL.

## ALGONA, IA

### ALGONA MUNI (AXA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 20AUG15 (15232) (FAA)

TAKEOFF MINIMUMS:

**Rwy 18, 36,** NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 12,** trees beginning 16' from DER, 491' left of centerline, up to 100' AGL/1319' MSL.
**Rwy 30,** trees beginning 16' from DER, 290' left of centerline, up to 100' AGL/1329' MSL.
Vehicle 255' from DER, 449' right of centerline, 15' AGL/1244' MSL.
Trees beginning 3652' from DER, 1352' right of centerline, up to 100' AGL/1329' MSL.

## AMES, IA

### AMES MUNI (AMW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 03JUN10 (10154) (FAA)

TAKEOFF MINIMUMS:

**Rwy 1,** std. w/ a min. climb of 227' per NM to 1800 or 1600-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 1**, climb heading 014° to 1800 before proceeding on course or for climb in visual conditions, cross Ames Muni airport at or above 2400 before proceeding on course.

**Rwy 13,** climb heading 133° to 2800 before turning right.

**Rwy 19,** climb on a heading between 198° CW 013° from DER or climb on a heading between 140° CCW 013° from DER.

**Rwy 31,** climb heading 313° to 1500 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** trees beginning 63' from DER, 374' right of centerline, up to 74' AGL/974' MSL.
Trees, and wsk on hanger beginning 906' from DER, 714' left of centerline, up to 77' AGL/1007' MSL.
Terrain at DER, 240' left of centerline, 919' MSL.

**Rwy 13,** trees, antenna on obstruction light pole and antenna on AWOS beginning 42' from DER, 90' right of centerline, up to 78' AGL/998' MSL.
Terrain beginning 34' from DER, 181' left of centerline, 923' MSL.
Trees beginning 918' from DER, 32' left of centerline, up to 83' AGL/993' MSL.

**Rwy 19,** trees, poles, road and rod on building beginning 1004' from DER, 407' right of centerline, up to 79' AGL/1059' MSL.

**Rwy 31,** trees, poles and roads beginning 214' from DER, 103' right of centerline, up to 57' AGL/987' MSL.
Trees, poles and bush beginning 135' from DER, 109' left of centerline, up to 90' AGL/1020' MSL.

## ANKENY, IA

### ANKENY RGNL (IKV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05JAN17 (17005) (FAA)

TAKEOFF MINIMUMS:

**Rwy 22,** 400-2 or std. w/min. climb of 385' per NM to 1400.

DEPARTURE PROCEDURE:

**Rwy 4,** climb on heading 042° to 2600 before turning left.

**Rwy 18,** climbing left turn heading 150° to 2200 before proceeding on course.

**Rwy 22,** climb on heading 222° to 1900 before turning right.

**Rwy 36,** climbing right turn heading 050° to intercept TNU VOR/DME R-258 inbound to 3300 before turning westbound.

TAKEOFF OBSTACLE NOTES:

**Rwy 4,** vehicle on road 196' from DER, crossing centerline, up to 15' AGL/917' MSL.
Trees beginning 773' from DER, 677' right of centerline, up to 958' MSL.
Trees beginning 892' from DER, 96' right of centerline, up to 967' MSL.
Trees beginning 1010' from DER, 32' left of centerline, up to 951' MSL.
Tree 1616' from DER, 252' right of centerline, 975' MSL.
Trees beginning 3639' from DER, 1158' left of centerline, up to 1006' MSL.
Tree 3840' from DER, 121' right of centerline, 1011' MSL.
Tree 4035' from DER, 1344' left of centerline, 1012' MSL.
Tree 4155' from DER, 1142' left of centerline, 1028' MSL.

**Rwy 18,** REIL 10' from DER, 31' left of centerline, 2' AGL/889' MSL.
REIL 10' from DER, 29' right of centerline, 2' AGL/889' MSL.
Tree 179' from DER, 291' left of centerline, 894' MSL.
Trmsn twr 2606' from DER, 57' left of centerline, 85' AGL/953' MSL.
T-l twrs beginning 2611' from DER, 58' left of centerline, up to 92' AGL/967' MSL.

**Rwy 22,** REIL 10' from DER, 17' left of centerline, 1' AGL/911' MSL.
Sign 520' from DER, 617' right of centerline, 20' AGL/942' MSL.
Vehicles on rd beginning 868' from DER, crossing centerline, up to 17' AGL/946' MSL.
Sign 1430' from DER, 48' left of centerline, 26' AGL/958' MSL.
Sign 2067' from DER, 398' right of centerline, 46' AGL/993' MSL.
Trmsn towers beginning 5774' from DER, 1675' left of centerline, up to 152' AGL/1074' MSL.
Towers beginning 1.1 NM from DER, 2202' right of centerline, up to 266' AGL/1232' MSL.
T-l towers beginning 1.1 NM from DER, 776' left of centerline, up to 130' AGL/1097' MSL.
Towers beginning 1.2 NM from DER, 604' right of centerline, up to 298' AGL/1250' MSL.

**Rwy 36,** REIL 8' from DER, 30' left of centerline, 2' AGL/905' MSL.
REIL 9' from DER, 30' right of centerline, 2' AGL/905' MSL.
Trees beginning 1993' from DER, 202' left of centerline, up to 964' MSL.
Trees beginning 2011' from DER, 318' left of centerline, up to 970' MSL.
Tree 2203' from DER, 268' left of centerline, 971' MSL.
Tree 2204' from DER, 205' left of centerline, 974' MSL.

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## ATLANTIC, IA

### ATLANTIC MUNI (AIO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6A 04JUN09 (09155) (FAA)

TAKEOFF MINIMUMS:

**Rwy 2,** 300-1½ or std. w/ min. climb of 208' per NM to 1400.

**Rwy 12,** 400-2½ or std. w/ min. climb of 321' per NM to 1700.

DEPARTURE PROCEDURE:

**Rwy 12,** climb heading 119° to 1700 before proceeding on course.

**Rwy 20,** climb heading 198° to 2300 before proceeding on course.

**Rwy 30,** climb heading 299° to 1900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 2,** terrain beginning 6' from DER, from 654' left of centerline to 433' right of centerline, up to 1175' MSL.
Trees beginning 1210' from DER, 20' right of centerline, up to 75' AGL/1234' MSL.
Trees beginning 2991' from DER, 202' left of centerline, up to 75' AGL/1234' MSL.

**Rwy 12,** terrain beginning 8' from DER, from 336' left of centerline to 422' right of centerline, up to 1300' MSL.
Trees beginning 2175' from DER, 498' right of centerline, up to 75' AGL/1214' MSL.
Trees beginning 4525' from DER, 422' right of centerline, up to 75' AGL/1354' MSL.

**Rwy 20,** terrain beginning 72' from DER, from 538' left of centerline to 623' right of centerline, up to 1185' MSL.
Trees beginning 2157' from DER, 44' left of centerline, up to 75' AGL/1234' MSL.

**Rwy 30,** terrain beginning 100' from DER, from 1615' left of centerline to 758' right of centerline, up to 1293' MSL.

## AUDUBON, IA

### AUDUBON COUNTY (ADU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 25FEB21 (21056) (FAA)

TAKEOFF MINIMUMS:

**Rwy 14,** 300-1¼ or std. w/ min. climb of 245' per NM to 1600.

**Rwy 32,** 300-1⅛ or std. w/ min. climb of 370' per NM to 1700.

TAKEOFF OBSTACLE NOTES:

**Rwy 14,** traverse way abeam DER, 492' right of centerline, 1295' MSL.
Trees, poles, traverse way beginning 14' from DER, 137' right of centerline, up to 45' AGL/1319' MSL.
Terrain 22' from DER, 349' left of centerline, 1286' MSL.
Terrain 113' from DER, 496' left of centerline, 1288' MSL.
Terrain 143' from DER, 388' left of centerline, 1292' MSL.
Terrain beginning 200' from DER, 326' left of centerline, up to 1294' MSL.
Vegetation 279' from DER, 502' left of centerline, 1296' MSL.
Building 383' from DER, 491' left of centerline, 16' AGL/1314' MSL.
Traverse way 430' from DER, 602' left of centerline, 1315' MSL.
Building, traverse way beginning 491' from DER, 389' left of centerline, up to 23' AGL/1324' MSL.
Traverse way beginning 635' from DER, 388' left of centerline, up to 1325' MSL.
Poles, traverse way beginning 660' from DER, 281' left of centerline, up to 31' AGL/1332' MSL.
Trees, poles, terrain, traverse way beginning 1011' from DER, 346' left of centerline, up to 1333' MSL.
Poles, terrain, vegetation beginning 1278' from DER, 587' left of centerline, up to 31' AGL/1349' MSL.
Tree 1706' from DER, 630' right of centerline, 1321' MSL.
Terrain beginning 1916' from DER, 715' left of centerline, up to 1350' MSL.
Vegetation beginning 2146' from DER, 781' left of centerline, up to 1368' MSL.
Vegetation, terrain beginning 2240' from DER, 722' left of centerline, up to 1383' MSL.
Trees, terrain, traverse way beginning 3304' from DER, 58' left of centerline, up to 1406' MSL.
Trees beginning 3490' from DER, 16' right of centerline, up to 73' AGL/1396' MSL.
Traverse way 5037' from DER, 1702' left of centerline, 1418' MSL.
Traverse way, terrain beginning 5110' from DER, 1769' left of centerline, up to 1426' MSL.
Building 5903' from DER, 1689' left of centerline, 24' AGL/1432' MSL.
Tree 5915' from DER, 1576' left of centerline, 1441' MSL.
Trees, poles beginning 5981' from DER, 1690' left of centerline, up to 1449' MSL.
Trees beginning 1 NM from DER, 1676' left of centerline, up to 1464' MSL.
Trees beginning 1 NM from DER, 1735' left of centerline, up to 59' AGL/1465' MSL.
Pole 1 NM from DER, 1919' left of centerline, 52' AGL/1450' MSL.

**Rwy 32,** NAVAID 9' from DER, 78' left of centerline, 1' AGL/1289' MSL.
NAVAID 9' from DER, 76' right of centerline, 3' AGL/1289' MSL.
Vegetation 31' from DER, 235' left of centerline, 1296' MSL.
Pole, general utility, traverse way, vegetation beginning 48' from DER, 146' left of centerline, up to 35' AGL/1330' MSL.
Trees, vegetation, terrain, poles, building beginning 65' from DER, 75' right of centerline, up to 1318' MSL.
Pole, tree beginning 248' from DER, 14' left of centerline, up to 36' AGL/1331' MSL.
Trees, traverse way, pole, terrain beginning 281' from DER, 48' left of centerline, up to 1334' MSL.
Trees, traverse way, buildings beginning 479' from DER, 312' right of centerline, up to 1323' MSL.
Terrain, pole, tree beginning 846' from DER, 111' left of centerline, up to 1343' MSL.
Terrain, traverse way, tree beginning 946' from DER, 7' left of centerline, up to 1356' MSL.
Pole 957' from DER, 483' right of centerline, 62' AGL/1349' MSL.
Terrain, pole, tree beginning 1029' from DER, 12' left of centerline, up to 1360' MSL.
Pole, tree beginning 1036' from DER, 36' right of centerline, up to 63' AGL/1351' MSL.
Vegetation 1120' from DER, 670' left of centerline, 1377' MSL.
Vegetation, tree, terrain beginning 1123' from DER, 225' left of centerline, up to 1378' MSL.
Tree, pole, terrain, building beginning 1507' from DER, 70' left of centerline, up to 1383' MSL.

**CON'T**



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## AUDUBON, IA (CON'T)

AUDUBON COUNTY (ADU) (CON'T)

**Rwy 32 (CON'T),** poles, trees, building beginning 1530' from DER, 10' right of centerline, up to 68' AGL/1366' MSL.
Terrain, poles, trees, fences beginning 1643' from DER, 88' left of centerline, up to 1388' MSL.
Tree 2076' from DER, 497' right of centerline, 1369' MSL.
Trees beginning 2167' from DER, 553' right of centerline, up to 1376' MSL.
Trees beginning 2303' from DER, 365' right of centerline, up to 1384' MSL.
Trees beginning 2397' from DER, 984' right of centerline, up to 1385' MSL.
Tree 2452' from DER, 705' right of centerline, 1386' MSL.
Trees beginning 2512' from DER, 545' right of centerline, up to 1387' MSL.
Trees, pole beginning 2539' from DER, 369' right of centerline, up to 1396' MSL.
Trees beginning 3399' from DER, 618' right of centerline, up to 1408' MSL.
Fence, building, terrain beginning 3584' from DER, 1042' left of centerline, up to 6' AGL/1393' MSL.
Tree 3665' from DER, 1399' left of centerline, 1408' MSL.
Trees beginning 3694' from DER, 1004' right of centerline, up to 1415' MSL.
Building, fence, tree beginning 3694' from DER, 1072' left of centerline, up to 31' AGL/1418' MSL.
Trees, stack beginning 3879' from DER, 479' right of centerline, up to 1416' MSL.
Elevator, trees beginning 4816' from DER, 263' right of centerline, up to 127' AGL/1425' MSL.
Tree 5136' from DER, 1687' left of centerline, 1438' MSL.
Tower, tree beginning 5610' from DER, 1611' right of centerline, up to 187' AGL/1544' MSL.

## AURORA, MO

JERRY SUMNERS SR AURORA MUNI (2H2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 01FEB18 (18032) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** trees beginning 65' from DER, 252' right of centerline, up to 58' AGL/1469' MSL.
Sign 217' from DER, 406' left of centerline, 1437' MSL.
Road 244' from DER, 502' left of centerline, 1438' MSL.
Trees beginning 291' from DER, 312' right of centerline, up to 1470' MSL.
Tree, road beginning 371' from DER, 316' left of centerline, up to 1445' MSL.
Tree, pole beginning 408' from DER, 251' right of centerline, up to 1473' MSL.
Tree 473' from DER, 491' left of centerline, 1480' MSL.
Tree, road beginning 502' from DER, 29' left of centerline, up to 69' AGL/1504' MSL.
Trees beginning 737' from DER, 45' right of centerline, up to 1482' MSL.
Trees beginning 843' from DER, 43' left of centerline, up to 80' AGL/1511' MSL.
Tree, pole, transmission line beginning 951' from DER, 132' left of centerline, up to 1514' MSL.
Tree 1040' from DER, 143' right of centerline, 61' AGL/1483' MSL.
Trees beginning 1080' from DER, 93' right of centerline, up to 66' AGL/1486' MSL.
Pole, tree beginning 1546' from DER, 282' right of centerline, up to 1494' MSL.
Tree 1601' from DER, 437' right of centerline, 1495' MSL.
Trees beginning 1617' from DER, 235' right of centerline, up to 1497' MSL.
Tree, building, transmission line beginning 1806' from DER, 240' right of centerline, up to 1507' MSL.
Tree 3509' from DER, 520' left of centerline, 71' AGL/1517' MSL.
**Rwy 36,** trees beginning 35' from DER, 263' left of centerline, up to 1483' MSL.
Tree 42' from DER, 447' right of centerline, 69' AGL/1502' MSL.
Tree, pole, transmission line beginning 117' from DER, 197' right of centerline, up to 72' AGL/1505' MSL.
Trees beginning 244' from DER, 457' left of centerline, up to 1488' MSL.
Tree, pole, sign beginning 506' from DER, 260' left of centerline, up to 1494' MSL.

## AVA, MO

AVA BILL MARTIN MEML (AOV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02MAY13 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** trees beginning 182' from DER, 254' left of centerline, up to 100' AGL/1319' MSL.
Multiple buildings, poles and vehicles on road beginning 512' from DER, left and right of centerline, up to 40' AGL/1379' MSL.
Trees beginning 76' from DER, left and right of centerline, up to 100' AGL/1459' MSL.
**Rwy 31,** trees beginning 5' from DER, 227' right of centerline, up to 100' AGL/1379' MSL.
Trees beginning 210' from DER, 195' left of centerline, up to 100' AGL/1359' MSL.
Trees beginning 850' from DER from left to right of centerline, up to 100' AGL/1339' MSL.

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## BELLE PLAINE, IA

BELLE PLAINE MUNI (TZT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 05APR12 (12096) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 400-2 or std. w/ min. climb of 440' per NM to 1200.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple trees beginning 142' from DER, left and right of centerline, up to 94' AGL/854' MSL.

**Rwy 36,** multiple towers, tanks, trees, poles, buildings, grain elevators, and roads beginning 31' from DER, left and right of centerline, up to 174' AGL/954' MSL.

Trees beginning 4901' from DER, 962' right of centerline, up to 93' AGL/954' MSL.

Tower 1.8 NM from DER, 2320' right of centerline, 207' AGL/1097' MSL.

## BLOOMFIELD, IA

BLOOMFIELD MUNI (4K6)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 03JUL08 (08185) (FAA)

DEPARTURE PROCEDURE:

**Rwy 18**, climb runway heading to 1300 before turning.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** building 353' from DER, 306' left of centerline, 30' AGL/915' MSL.

## BOLIVAR, MO

BOLIVAR MUNI (M17)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05JUL07 (07186) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 200-1¼ or std. w/ min. climb of 252' per NM to 1400.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** east-west road, vehicle and transmission lines and poles beginning 627' from DER, up to 40' AGL/1138' MSL.

Multiple trees beginning 667' from DER, 6' left of centerline, up to 75' AGL/1148' MSL.

Silo 1059' from DER, 677' left of centerline, 100' AGL/1200' MSL.

Multiple trees beginning 147' from DER, 39' right of centerline, up to 75' AGL/1157' MSL.

**Rwy 36,** transmission lines and poles beginning 1208' from DER, 189' left of centerline, up to 40' AGL/1137' MSL.

East-west transmission lines and poles beginning 1925' from DER, up to 50' AGL/1165' MSL.

Multiple trees beginning 659' from DER, 58' right of centerline, up to 75' AGL/1201' MSL.

Tree 5471' from DER, 1766' left of centerline, 100' AGL/1269' MSL.

## BOONE, IA

BOONE MUNI (BNW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6A 08SEP22 (22251) (FAA)

TAKEOFF MINIMUMS:

**Rwys 2, 20,** NA-Environmental.

**Rwy 33,** 300-1 or std. w/min. climb of 419' per NM to 1400.

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** lighting 40' from DER, 104' right of centerline, 1141' MSL.

Lighting 40' from DER, 108' left of centerline, 1141' MSL.

Trees beginning 154' from DER, 206' right of centerline, up to 37' AGL/1171' MSL.

Tree 197' from DER, 168' left of centerline, 23' AGL/1156' MSL.

**Rwy 33,** terrain 73' from DER, 305' right of centerline, 1140' MSL.

Trees, fence beginning 123' from DER, 368' right of centerline, up to 36' AGL/1179' MSL.

Pole 132' from DER, 524' left of centerline, 28' AGL/1168' MSL.

NAVAID, poles, building beginning 297' from DER, 523' left of centerline, up to 1174' MSL.

Trees, poles, vehicles on road, building beginning 348' from DER, 158' right of centerline, up to 1182' MSL.

Poles, buildings, trees, vehicles on road beginning 1084' from DER, 341' right of centerline, up to 1189' MSL.

Trees, poles, tank, building beginning 1086' from DER, 191' left of centerline, up to 1198' MSL.

Trees, pole beginning 1553' from DER, 156' right of centerline, up to 1192' MSL.

Trees, pole beginning 1743' from DER, 654' left of centerline, up to 1201' MSL.

Tree, pole, building beginning 1926' from DER, 53' right of centerline, up to 1203' MSL.

Elevator, trees beginning 2200' from DER, 561' left of centerline, up to 80' AGL/1224' MSL.

Tank 3133' from DER, 1335' right of centerline, 140' AGL/1287' MSL.

## BOONVILLE, MO

JESSE VIERTEL MEML (VER)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10MAY07 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple trees beginning 368' from DER, 383' left of centerline, up to 80' AGL/761' MSL.
Road and vehicle 1232' from DER, on centerline, 17' AGL/746' MSL.
Multiple trees beginning 500' from DER, 109' right of centerline, up to 80' AGL/786' MSL.
**Rwy 36,** multiple trees and pole beginning 701' from DER, 67' left of centerline, up to 100' AGL/810' MSL.
Multiple trees beginning 200' from DER, 334' right of centerline, up to 80' AGL/794' MSL.

## BOWLING GREEN, MO

BOWLING GREEN MUNI (H19)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 24MAR22 (22083) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** wind indicator, vehicles on road, bush beginning 27' from DER, 313' right of centerline, up to 25' AGL/914' MSL.
Pole 254' from DER, 490' left of centerline, 33' AGL/916' MSL.
Tree 325' from DER, 573' left of centerline, 925' MSL.
Trees, pole beginning 450' from DER, 335' left of centerline, up to 937' MSL.
Trees beginning 652' from DER, 69' right of centerline, up to 927' MSL.
Trees beginning 699' from DER, 202' left of centerline, up to 938' MSL.
Trees beginning 909' from DER, 146' right of centerline, up to 931' MSL.
Trees beginning 1323' from DER, 170' left of centerline, up to 941' MSL.
Trees beginning 1405' from DER, 134' left of centerline, up to 946' MSL.
Tree 1457' from DER, 66' right of centerline, 934' MSL.
Trees beginning 1552' from DER, 127' left of centerline, up to 78' AGL/950' MSL.
Trees beginning 1964' from DER, 102' left of centerline, up to 955' MSL.
Tree 2017' from DER, 227' right of centerline, 955' MSL.
Tree 2036' from DER, 259' right of centerline, 956' MSL.
Trees beginning 2075' from DER, 166' right of centerline, up to 961' MSL.
**Rwy 31,** terrain 10' from DER, 492' left of centerline, 885' MSL.
Trees, buildings beginning 56' from DER, 204' left of centerline, up to 919' MSL.
Trees beginning 197' from DER, 361' left of centerline, up to 932' MSL.
Trees beginning 298' from DER, 423' left of centerline, up to 935' MSL.

## BRANSON, MO

BRANSON (BBG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07MAY09 (09127) (FAA)

DEPARTURE PROCEDURE:

**Rwy 32,** climb heading 323° to 2000 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 14,** numerous trees beginning 1214' from DER, 4' right of centerline, up to 100' AGL/1449' MSL.
**Rwy 32,** numerous trees beginning 77' from DER, 452' left of centerline, up to 100' AGL/1289' MSL.

M GRAHAM CLARK DOWNTOWN (PLK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 23JUL15 (15204) (FAA)

TAKEOFF MINIMUMS:

**Rwy 30,** std. w/min. climb of 244' per NM to 1800 or 1400-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 12,** climb heading 117° to 1600 before proceeding on course.
**Rwy 30,** obtain ATC approval for climb in visual conditions when requesting IFR clearance. Climb in visual conditions to cross M Graham Clark downtown airport at or above 2200 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 12,** trees beginning 796' from DER, 468' right of centerline, up to 50' AGL/989' MSL.

## BRANSON WEST, MO

BRANSON WEST MUNI-EMERSON FIELD (FWB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15DEC11 (11349) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 3,** trees beginning 167' from DER, left and right of centerline, up to 100' AGL/1479' MSL.
Vehicles on road beginning 22' from DER, from 15' left of centerline, up to 15' AGL/1394' MSL.
Vehicle on road 1485' from DER, 615' right of centerline, 15' AGL/1394' MSL.
**Rwy 21,** trees beginning 230' from DER, left and right of centerline, up to 100' AGL/1419' MSL.
Power lines beginning 2501' from DER, 788' left of centerline, up to 100' AGL/1379' MSL.

## BROOKFIELD, MO

NORTH CENTRAL MISSOURI RGNL (MO8)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 31MAR16 (16091) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18**, terrain 2' from DER, 498' left of centerline, 830' MSL.
Fence 3' from DER, 398' left of centerline, 7' AGL/830' MSL.
Poles beginning 889' from DER, 458' left of centerline, up to 29' AGL/855' MSL.
Tree 1358' from DER, 110' left of centerline, 50' AGL/864' MSL.
Trees beginning 1436' from DER, 387' right of centerline, up to 88' AGL/872' MSL.
Tree 2069' from DER, 586' left of centerline, 89' AGL/878' MSL.
**Rwy 36**, bldg 4' from DER, 428' right of centerline, 18' AGL/858' MSL.
Tree 5' from DER, 152' left of centerline, 15' AGL/847' MSL.
Tree 10' from DER, 162' left of centerline, 17' AGL/848' MSL.
Tree 127' from DER, 202' left of centerline, 30' AGL/856' MSL.
Tree 140' from DER, 203' left of centerline, 33' AGL/859' MSL.
Trees beginning 163' from DER, 208' left of centerline, up to 48' AGL/867' MSL.
Tree 464' from DER, 281' right of centerline, 70' AGL/877' MSL.
Tree 500' from DER, 365' right of centerline, 75' AGL/887' MSL.
Trees beginning 522' from DER, 484' left of centerline, up to 76' AGL/876' MSL.
Trees and pole beginning 541' from DER, 288' right of centerline, up to 84' AGL/891' MSL.
Tree 858' from DER, 647' left of centerline, 86' AGL/878' MSL.
Tree 1478' from DER, 492' right of centerline, 67' AGL/892' MSL.
Trees beginning 1485' from DER, 499' right of centerline, up to 56' AGL/893' MSL.

## BURLINGTON, IA

SOUTHEAST IOWA RGNL (BRL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20AUG92 (92233) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 300-1.

DEPARTURE PROCEDURE:

**Rwys 30, 36,** climb runway heading to 1500 before turning.

## BUTLER, MO

BUTLER MEML (BUM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20OCT11 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 18,** 500-3 or std. w/min. climb of 216'per NM to 1500.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** tower 2.5 NM from DER, 1636' right of centerline, 493' AGL/1293' MSL.
Trees beginning at DER, 317' left and right of centerline, up to 100' AGL/992' MSL.
Buildings beginning 44' from DER, 350' right of centerline, up to 19' AGL/910' MSL.
Terrain beginning 31' from DER, 104' left and right of centerline, up to 909' MSL.
**Rwy 36,** trees beginning 1254' from DER, left and right of centerline, up to 100' AGL/970' MSL.
Vehicle on road beginning at DER, 350' left of centerline, 15' AGL/885' MSL.
Terrain beginning 192' from DER, 37' left and right of centerline, up to 886' MSL.

## CABOOL, MO

CABOOL MEML (TVB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 08NOV18 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 3,** 300-1 or std. w/min. climb of 461' per NM to 1600.
**Rwy 21,** 500-3 or std. w/min. climb of 578' per NM to 1600.

DEPARTURE PROCEDURE:

**Rwy 3,** climb heading 030° to 1800 before turning right.
**Rwy 21,** climb heading 210° to 1900 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 3,** tree 16' from DER, 312' right of centerline, 1242' MSL.
Trees beginning 34' from DER, 189' left of centerline, up to 1258' MSL.
Trees beginning 68' from DER, 255' right of centerline, up to 1271' MSL.
Trees, terrain, pole beginning 182' from DER, 12' right of centerline, up to 103' AGL/1302' MSL.
Trees, traverse way beginning 477' from DER, 11' left of centerline, up to 1267' MSL.
Trees beginning 1478' from DER, 492' left of centerline, up to 1269' MSL.
Trees beginning 1643' from DER, 31' left of centerline, up to 1274' MSL.
Trees beginning 1745' from DER, 13' right of centerline, up to 1309' MSL.
Trees beginning 1815' from DER, 124' left of centerline, up to 78' AGL/1283' MSL.
Trees beginning 2127' from DER, 37' left of centerline, up to 89' AGL/1284' MSL.
Tree 3693' from DER, 1344' right of centerline, 1316' MSL.
Trees beginning 3775' from DER, 1187' right of centerline, up to 1337' MSL.

**CON'T**



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## CABOOL, MO (CON'T)

CABOOL MEML (TVB) (CON'T)

**Rwy 3 (CON'T),** trees beginning 3882' from DER, 891' right of centerline, up to 1367' MSL.
Trees beginning 3977' from DER, 933' right of centerline, up to 1376' MSL.
Trees beginning 4074' from DER, 1042' right of centerline, up to 1398' MSL.
Trees, terrain beginning 4345' from DER, 628' right of centerline, up to 1459' MSL.
Trees beginning 5448' from DER, 1796' right of centerline, up to 1372' MSL.
**Rwy 21,** pole 0' from DER, 200' right of centerline, 1249' MSL.
Trees, traverse way beginning 6' from DER, 41' left of centerline, up to 86' AGL/1298' MSL.
Pole 46' from DER, 373' right of centerline, 1259' MSL.
Trees, building beginning 107' from DER, 286' right of centerline, up to 1277' MSL.
Trees, pole, traverse way beginning 188' from DER, 10' right of centerline, up to 1280' MSL.
Trees, traverse way beginning 342' from DER, 15' left of centerline, up to 1299' MSL.
Trees, terrain beginning 450' from DER, 218' left of centerline, up to 1317' MSL.
Trees, building, pole, traverse way beginning 655' from DER, 346' right of centerline, up to 1299' MSL.
Trees beginning 841' from DER, 271' left of centerline, up to 1337' MSL.
Trees beginning 1341' from DER, 446' left of centerline, up to 1339' MSL.
Trees beginning 1436' from DER, 239' left of centerline, up to 1355' MSL.
Trees, traverse way, pole beginning 1903' from DER, 419' right of centerline, up to 1300' MSL.
Tree 2101' from DER, 653' left of centerline, 1363' MSL.
Trees beginning 2133' from DER, 337' left of centerline, up to 1374' MSL.
Trees, terrain, pole, antenna beginning 2326' from DER, 58' left of centerline, up to 1377' MSL.
Trees, pole beginning 2549' from DER, 839' right of centerline, up to 1314' MSL.
Trees beginning 3231' from DER, 1156' right of centerline, up to 1320' MSL.
Trees beginning 3551' from DER, 1269' right of centerline, up to 1325' MSL.
Tree 1 NM from DER, 1712' left of centerline, 1379' MSL.
Trees beginning 1 nm from DER, 1542' left of centerline, up to 1400' MSL.
Trees beginning 1.5 NM from DER, 2823' left of centerline, up to 1460' MSL.
Tree 1.9 NM from DER, 2978' left of centerline, 1529' MSL.

## CAMDENTON, MO

CAMDENTON MEML-LAKE RGNL (OZS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 19MAY22 (22139) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** tree 103' from DER, 379' right of centerline, 1056' MSL.
Trees beginning 108' from DER, 221' left of centerline, up to 1078' MSL.
Trees beginning 199' from DER, 249' right of centerline, up to 1075' MSL.
Tree 405' from DER, 271' right of centerline, 1077' MSL.
Trees beginning 659' from DER, 235' left of centerline, up to 1079' MSL.
**Rwy 33,** trees, poles beginning 54' from DER, 238' right of centerline, up to 1088' MSL.
Tank 71' from DER, 262' left of centerline, 20' AGL/1077' MSL.
Tree, poles, buildings beginning 109' from DER, 258' left of centerline, up to 1096' MSL.
Pole 395' from DER, 446' left of centerline, 39' AGL/1101' MSL.
Trees, poles, building beginning 520' from DER, 10' left of centerline, up to 1114' MSL.
Tree 708' from DER, 433' right of centerline, 1094' MSL.
Trees, pole beginning 711' from DER, 11' right of centerline, up to 1099' MSL.
Trees beginning 1813' from DER, 7' left of centerline, up to 1125' MSL.
Tree 1913' from DER, 38' right of centerline, 1117' MSL.
Antenna 3324' from DER, 814' left of centerline, 85' AGL/1143' MSL.

## CAMERON, MO

CAMERON MEML (EZZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08APR10 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 17,** trees beginning 31' from DER, 287' left of centerline, up to 7' AGL/1024' MSL.
Trees beginning 84' from DER, 428' right of centerline, up to 61' AGL/1041' MSL.
**Rwy 35,** trees and rising terrain beginning 36' from DER, 113' left of centerline, up to 30' AGL/1077' MSL.
Trees and rising terrain beginning 79' from DER, 119' right of centerline, up to 57' AGL/1105' MSL.
Buildings and stacks beginning 711' from DER, 619' right of centerline, up to 57' AGL/1082' MSL.
Train on railroad tracks 1636' from DER, left and right of centerline, 23' AGL/1085' MSL.

## CAPE GIRARDEAU, MO

### CAPE GIRARDEAU RGNL (CGI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 10 23MAR23 (23082) (FAA)

TAKEOFF MINIMUMS:

**Rwy 10,** 300-1⅜ or std. w/min. climb of 321' per NM to 700.

**Rwy 20,** 300-1½ or std. w/min. climb of 342' per NM to 600.

DEPARTURE PROCEDURE:

**Rwy 2,** climb on heading between 040° CW to 200° from DER.

**Rwy 28,** climb on heading 288° to 1000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 2,** fence 2' from DER, 454' left of centerline, 3' AGL/337' MSL.
Sign 32' from DER, 168' right of centerline, 2' AGL/337' MSL.
Vegetation 298' from DER, 567' left of centerline, 344' MSL.
Tree 416' from DER, 610' left of centerline,' MSL.
Vehicle on roadway 738' from DER, 678' right of centerline, 355' MSL.
Transmission line, poles, trees, sign beginning 959' from DER, 27' right of centerline, up to 60' AGL/393' MSL.
Pole 1234' from DER, 490' left of centerline, 39' AGL/374' MSL.
Poles beginning 1317' from DER, 296' left of centerline, up to 43' AGL/379' MSL.
Tank 2658' from DER, 1185' right of centerline, 104' AGL/439' MSL.
**Rwy 10,** poles beginning 1394' from DER, 798' left of centerline, up to 41' AGL/381' MSL.
Trees beginning 2577' from DER, 772' right of centerline, up to 425' MSL.
Tree 3291' from DER, 963' left of centerline, 424' MSL.
Crane 3577' from DER, 389' left of centerline, 435' MSL.
Trees beginning 4060' from DER, 1263' right of centerline, up to 462' MSL.
Crane 4305' from DER, 213' left of centerline, 461' MSL.
Tree 4832' from DER, 286' right of centerline, 471' MSL.
Tree 4901' from DER, 213' right of centerline, 476' MSL.
Trees beginning 4954' from DER, 741' left of centerline, up to 471' MSL.
Tree 5021' from DER, 254' right of centerline, 480' MSL.
Tree 5257' from DER, 1906' left of centerline, 549' MSL.
Trees beginning 5485' from DER, 1060' left of centerline, up to 490' MSL.
Tree 5589' from DER, 622' right of centerline, 482' MSL.
Tree 1.2 NM from DER, 1951' left of centerline, 527' MSL.
**Rwy 20,** sign 20' from DER, 203' left of centerline, 3' AGL/343' MSL.
Vegetation 108' from DER, 368' left of centerline, 13' AGL/353' MSL.
Tree 175' from DER, 379' left of centerline, 360' MSL.
Vegetation 739' from DER, 481' left of centerline, 367' MSL.
Transmission line, pole beginning 1408' from DER, 832' right of centerline, up to 50' AGL/387' MSL.
Tree 1521' from DER, 459' right of centerline, 55' AGL/394' MSL.
Trees beginning 1597' from DER, 369' right of centerline, up to 403' MSL.
Trees beginning 3990' from DER, 1300' left of centerline, up to 469' MSL.
Tree 4142' from DER, 1601' left of centerline, 519' MSL.
Trees beginning 4359' from DER, 585' left of centerline, up to 484' MSL.
Trees beginning 4716' from DER, 605' left of centerline, up to 488' MSL.
Trees 5230' from DER, 1770' right of centerline, 100' AGL/484' MSL.
Tree 5393' from DER, 360' right of centerline, 491' MSL.
Trees beginning 5455' from DER, 966' right of centerline, up to 492' MSL.
Trees beginning 5485' from DER, 800' right of centerline, up to 493' MSL.
Tree 5736' from DER, 1809' left of centerline, 493' MSL.
Tree 1.0 NM from DER, 1833' right of centerline, 541' MSL.
Tree 1.2 NM from DER, 1320' right of centerline, 522' MSL.
**Rwy 28,** tree 283' from DER, 533' left of centerline, 21' AGL/354' MSL.

## CARROLL, IA

### ARTHUR N NEU (CIN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15NOV12 (12320) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 3,** REIL 40' from DER, left and right of centerline, 2' AGL/1202' MSL.
Vehicles on road beginning 167' from DER, 417' right of centerline, up to 15' AGL/1219' MSL.
Trees beginning 339' from DER, left and right of centerline, up to 25' AGL/1221' MSL.
Poles beginning 1406' from DER, 271' left of centerline, up to 45' AGL/1250' MSL.
Silos beginning 1583' from DER, 791' left of centerline, up to 60' AGL/1262' MSL.
**Rwy 13,** building 1483' from DER, 854' left of centerline, 30' AGL/1243' MSL.
**Rwy 21,** vehicles on road beginning 319' from DER, 238' left of centerline, up to 15' AGL/1215' MSL.
Building 2035' from DER, 1019' right of centerline, 40' AGL/1258' MSL.
Trees beginning 2117' from DER, 722' right of centerline, up to 50' AGL/1351' MSL.
**Rwy 31,** rising terrain beginning 134' from DER, 295' left of centerline, up to 1213' MSL.
Tree 1112' from DER, 462' left of centerline, 110' AGL/1294' MSL.
Multiple trees beginning 2859' from DER, 214' right of centerline, up to 90' AGL/1333' MSL.
Poles beginning 3150' from DER, 150' right of centerline, up to 45' AGL/1299' MSL.

## CARUTHERSVILLE, MO
CARUTHERSVILLE MEML (M05)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 26MAY16 (21112) (FAA)
TAKEOFF MINIMUMS:
**Rwy 36,** 300-2 or std. w/min. climb of 256' per NM to 600.
TAKEOFF OBSTACLE NOTES:
**Rwy 18:** fence beginning 53' from DER, 353' left of centerline, up to 5' AGL/271' MSL.
Stack and buildings beginning 307' from DER, 435' left of centerline, up to 35' AGL/301' MSL.
Building 845' from DER, 532' left of centerline, 59' AGL/324' MSL.
Tree 1030' from DER, 278' left of centerline, 66' AGL/332' MSL.
Trees beginning 1126' from DER, 213' left of centerline, up to 80' AGL/346' MSL.
Trees beginning 1138' from DER, 71' right of centerline, up to 70' AGL/336' MSL.
**Rwy 36:** poles beginning 169' from DER, 456' right of centerline, up to 29' AGL/296' MSL.
Building 294' from DER, 404' left of centerline, 10' AGL/277' MSL.
Tree 518' from DER, 297' left of centerline, 15' AGL/283' MSL.
Trees and poles beginning 634' from DER, 231' left of centerline, up to 76' AGL/344' MSL.
Poles beginning 635' from DER, 295' right of centerline, up to 33' AGL/301' MSL.
Poles beginning 637' from DER, 234' right of centerline, up to 34' AGL/302' MSL.
Trees, buildings, and poles beginning 676' from DER, 241' left of centerline, up to 84' AGL/351' MSL.
Tree 679' from DER, 286' right of centerline, 49' AGL/317' MSL.
Tree 681' from DER, 516' right of centerline, 68' AGL/336' MSL.
Trees, building, and poles beginning 737' from DER, 6' right of centerline, up to 75' AGL/342' MSL.
Tower 1 NM from DER, 565' right of centerline, 207' AGL/475' MSL.

## CASSVILLE, MO
CASSVILLE MUNI (94K)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 9,** trees beginning 1487' from DER, 71' right of centerline, up to 71' AGL/1528' MSL.
Trees beginning 1487' from DER, 40' left of centerline, up to 60' AGL/1537' MSL.
Tower 4324' from DER, 1224' left of centerline, 140' AGL/1600' MSL.
Tank 4669' from DER, 1209' left of centerline, 136' AGL/1616' MSL.
Terrain 61' from DER, 275' left of centerline, 1475' MSL.
Poles beginning 311' from DER, 49' right of centerline, up to 43' AGL/1510' MSL.
Poles beginning 649' from DER, 148' left of centerline, up to 43' AGL/1521' MSL.
Flagpole 1316' from DER, 751' left of centerline, 43' AGL/1548' MSL.
Buildings beginning 397' from DER, 435' left of centerline, up to 40' AGL/1497' MSL.
**Rwy 27,** trees beginning 755' from DER, 180' right of centerline, up to 61' AGL/1604' MSL.
Trees beginning 709' from DER, 80' left of centerline, up to 60' AGL/1543' MSL.
Terrain 125' from DER, 472' left of centerline, 1484' MSL.
Poles beginning 636' from DER, 385' right of centerline, up to 43' AGL/1505' MSL.
Poles beginning 665' from DER, 320' left of centerline, up to 43' AGL/1516' MSL.
Bushes beginning 183' from DER, 339' left of centerline, up to 6' AGL/1490' MSL.

## CEDAR RAPIDS, IA
THE EASTERN IOWA (CID)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 23SEP10 (10266) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 9,** building 354' from DER, 563' right of centerline, 22' AGL/873' MSL.
Pole 678' from DER, 642' right of centerline, 33' AGL/884' MSL.
Obstruction light on building 1133' from DER, 596' right of centerline, 41' AGL/890' MSL.
Antennas beginning 491' from DER, 314' left of centerline, up to 28' AGL/879' MSL.
**Rwy 13,** vehicles on road 961' from DER, 709' left of centerline, up to 15' AGL/874' MSL.
**Rwy 27,** poles beginning 1338' from DER, 700' right of centerline, up to 34' AGL/895' MSL.
**Rwy 31,** vehicles on road beginning 28' from DER, left and right of centerline, up to 17' AGL/876' MSL.
Tree 3464' from DER, 180' right of centerline, 100' AGL/979' MSL.

## CENTERVILLE, IA
CENTERVILLE MUNI (TVK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 03JUN10 (10154) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 16,** trees beginning 37' from DER, 282' left of centerline, up to 25' AGL/1034' MSL.
Trees beginning 86' from DER, 213' right of centerline, up to 20' AGL/1031' MSL.

## CHARITON, IA
CHARITON MUNI (CNC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17DEC09 (09351) (FAA)
TAKEOFF MINIMUMS:
**Rwy 10,** std. w/ min. climb of 223' per NM to 1700 or 900-2½ for climb in visual conditions.
DEPARTURE PROCEDURE:
**Rwy 10,** for climb in visual conditions cross Chariton Muni airport at or above 1800 MSL before proceeding on course.
TAKEOFF OBSTACLE NOTES:
**Rwy 10,** tower 2.62 NM from DER, 2173' left of centerline, 470' AGL/1480' MSL.
**Rwy 17,** hangar 13' from DER, 429' left of centerline, 25' AGL/1084' MSL.
Vehicle on road beginning 506' from DER, from left to right of centerline, up to 15' AGL/1074' MSL.
Tree 2720' from DER, 451' right of centerline, 100' AGL/1159' MSL.
**Rwy 35,** vehicle on road 17' from DER, 421' left of centerline, 15' AGL/1054' MSL.

## CHARLES CITY, IA
NORTHEAST IOWA RGNL (CCY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)
TAKEOFF MINIMUMS:
**Rwys 4, 17, 22, 35,** NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 12,** trees beginning 1002' from DER, 351' right of centerline, up to 100' AGL/1209' MSL.
**Rwy 30,** trees beginning 1804' from DER, 621' right of centerline, up to 100' AGL/1229' MSL.

## CHARLESTON, MO
MISSISSIPPI COUNTY (CHQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 24MAY18 (18144) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 18**, trees beginning 404' from DER, 380' left of centerline, up to 80' AGL/394' MSL.
Trees beginning 2766' from DER, 670' left of centerline, up to 80' AGL/394' MSL.
Trees beginning 2772' from DER, 318' right of centerline, up to 80' AGL/394' MSL.
**Rwy 36**, vehicles on road beginning 511' from DER, left and right of centerline, up to 15' AGL/329' MSL.
Agricultural irrigation pivot equipment, 603' from DER, 9' left of centerline, 19' AGL/332' MSL.
Trees beginning 2045' from DER, 875' right of centerline, up to 80' AGL/394' MSL.

## CHEROKEE, IA
CHEROKEE COUNTY RGNL (CKP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 07MAY09 (09127) (FAA)
TAKEOFF MINIMUMS:
**Rwys 1,19,** NA - environmental.
**Rwy 36,** 300 -1¼ or std. w/ min. climb of 373' per NM to 1600.
DEPARTURE PROCEDURE:
**Rwy 18,** climb heading 178° to 1700 before proceeding on course.
**Rwy 36,** climb heading 358° to 1900 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** rising terrain, buildings, vehicles on road, poles, signs, trees beginning at DER, 305' left of centerline, up to 65' AGL/1298' MSL.
Trains on railroad beginning at DER, 348' right of centerline, up to 23' AGL/1242' MSL.
**Rwy 36,** vehicles on road, trees beginning at DER, 416' left of centerline, up to 65' AGL/1284' MSL.
Row of trees 726' from DER, from left to right of centerline, up to 65' AGL/1284' MSL.
Building 741' from DER, 557' right of centerline, 24' AGL/1239' MSL.
Tower 5267' from DER, 382' left of centerline, 160' AGL/1390' MSL.
Tower 6206' from DER, 171' right of centerline, 160' AGL/1440' MSL.

## CHILLICOTHE, MO
CHILLICOTHE MUNI (CHT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 02JUL09 (09183) (FAA)
TAKEOFF MINIMUMS:
**Rwys 2, 20,** NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 14,** trees beginning 287' from DER, 261' left of centerline, up to 150' AGL/884' MSL.
Vehicle on road 542' from DER, 454' right of centerline, 15' AGL/779' MSL.
Antenna 1338' from DER, 349' left of centerline, 46' AGL/806' MSL.
Tree 3217' from DER, 1285' right of centerline, 150' AGL/884' MSL.
**Rwy 32,** trees beginning 12' from DER, 63' left of centerline, up to 150' AGL/898' MSL.
Pole 142' from DER, 368' left of centerline, 43' AGL/792' MSL.
Trees beginning 164' from DER, 129' right of centerline, up to 150' AGL/924' MSL.

## CLARINDA, IA
SCHENCK FLD (ICL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 22JUN17 (21336) (FAA)
TAKEOFF MINIMUMS:
**Rwys 13, 31,** NA-Environmental.
DEPARTURE PROCEDURE:
**Rwy 2,** climb on heading 020° to 2400 before turning.
TAKEOFF OBSTACLE NOTES:
**Rwy 2,** tree 48' from DER, 486' right of centerline, 1000' MSL.
Transmission tower 104' from DER, 362' right of centerline, 1014' MSL.
Pole 144' from DER, 279' left of centerline, up to 38' AGL/1025' MSL.
Tree 2290' from DER, 481' right of centerline, 1057' MSL.
Elevator 2672' from DER, 206' right of centerline, 1079' MSL.
**Rwy 20,** vehicles on road beginning 196' from DER, 382' right of centerline, up to 15' AGL/1023' MSL.
Vehicles on road beginning 365' from DER, 535' left of centerline, 15' AGL/1017' MSL.
Vehicles on road beginning 422' from DER, 400' left of centerline, 15' AGL/1018' MSL.
Pole 470' from DER, 5' right of centerline, up to 83' AGL/1073' MSL.
Vehicles on road beginning 491' from DER, 93' left of centerline, up to 1005' MSL.
Trees beginning 1071' from DER, 44' left of centerline, up to 1026' MSL.
Tree 1398' from DER, 187' left of centerline, 1028' MSL.
Pole 1716' from DER, 481' left of centerline, up to 1037' MSL.
Trees beginning 2144' from DER, 23' left of centerline, up to 1050' MSL.

## CLARION, IA
CLARION MUNI (CAV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 11FEB10 (10042) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 14,** tree 345' from DER, 551' left of centerline, 100' AGL/1264' MSL.
**Rwy 32,** trees beginning 134' from DER, 396' left of centerline, up to 100' AGL/1254' MSL.
Vehicle on road 333' from DER, 572' right of centerline, up to 15' AGL/1174' MSL.

## CLINTON, IA
CLINTON MUNI (CWI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 06MAY10 (10126) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 3,** trees beginning 34' from DER, 393' left of centerline, up to 20' AGL/711' MSL.
Obstruction light on DME 387' from DER, 264' left of centerline, 11' AGL/720' MSL.
**Rwy 14,** vehicle on road 56' from DER, 483' right of centerline, 15' AGL/694' MSL.
Vehicle on road 391' from DER, 3' left of centerline, 15' AGL/702' MSL.
**Rwy 21,** tree 405' from DER, 500' left of centerline, 16' AGL/706' MSL.
**Rwy 32,** vehicle on road 38' from DER, 319' left of centerline, 15' AGL/716' MSL.
Fence 169' from DER, 192' right of centerline, 8' AGL/706' MSL.
Vehicle on road 508' from DER, 8' left of centerline, 15' AGL/718' MSL.
Trees beginning 1302' from DER, 448' left of centerline, up to 68' AGL/767' MSL.
Antenna on hopper 1315' from DER, 850' left of centerline, 82' AGL/781' MSL.

## CLINTON, MO
CLINTON RGNL (GLY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 03APR14 (14093) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 4,** sign 15' from DER, 124' left of centerline, 5' AGL/824' MSL.
Trees 100' from DER, 370' right of centerline.
Trees beginning 101' from DER. 370' right of centerline, up to 79' AGL/878' MSL.
Trees beginning 456' from DER, 56' right of centerline, up to 26' AGL/848' MSL.
Tree 662' from DER, 30' left of centerline, 22' AGL/844' MSL.
Tree 892' from DER, 296' left of centerline, 23' AGL/845' MSL.
Trees beginning 1624' from DER, 853' right of centerline, 78' AGL/888' MSL.
Trees beginning 1991' from DER, 700' left of centerline, up to 56' AGL/878' MSL.
**Rwy 18,** road 8' from DER, left to right of centerline, 15' AGL/819' MSL.
Terrain 73' from DER, 315' left of centerline, 808' MSL.
Trees beginning 183' from DER, 306' left of centerline, up to 84' AGL/892' MSL.
Trees beginning 434' from DER, 571' right of centerline, up to 52' AGL/855' MSL.
Trees beginning 1396' from DER, 632' right of centerline, up to 69' AGL/872' MSL.
Trees beginning 1725' from DER, 576' right of centerline, up to 64' AGL/848' MSL.
Bush 183' from DER, 306' left of centerline, 6' AGL/809' MSL.
**CON'T**

**CLINTON, MO (CON'T)**

CLINTON RGNL (GLY) (CON'T)

**Rwy 22,** tree 19' from DER, 349' left of centerline, 26' AGL/845' MSL.
Trees beginning 189' from DER, 213' left of centerline, up to 54' AGL/864' MSL.
Trees and poles beginning 640' from DER, left and right of centerline, up to 67' AGL/887' MSL.
Powerlines beginning 1289' from DER, left and right of centerline, up to 46' AGL/866' MSL.
**Rwy 36,** tree 38' from DER, 505' right of centerline, 23' AGL/832' MSL.
Trees beginning 153' from DER, 414' right of centerline, up to 79' AGL/888' MSL.
Trees, terrain and buildings beginning 106' from DER, 219' left of centerline, up to 69' AGL/878' MSL.
Bushes beginning 221' from DER, 431' left of centerline, up to 14' AGL/823' MSL.

**COLUMBIA, MO**

COLUMBIA RGNL (COU)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 02DEC21 (21336) (FAA)

DEPARTURE PROCEDURE:

**Rwy 31,** climb on heading 315° to 1900 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 2**, vehicles on road 64' from DER, 494' right of centerline, 894' MSL.
Trees beginning 682' from DER, 189' right of centerline, up to 929' MSL.
Tree 1494' from DER, 9' left of centerline, 925' MSL.
Trees beginning 1548' from DER, 118' right of centerline, up to 931' MSL.
Tree 1704' from DER, 481' right of centerline, 932' MSL.
**Rwy 13,** trees beginning 20' from DER, 462' left of centerline, up to 922' MSL.
Tree 850' from DER, 579' right of centerline, 925' MSL.
Trees beginning 926' from DER, 369' right of centerline, up to 927' MSL.
Trees beginning 1155' from DER, 132' right of centerline, up to 928' MSL.
Tree 1640' from DER, 864' left of centerline, 933' MSL.
**Rwy 20,** tree 1098' from DER, 792' right of centerline, 919' MSL.
Tree 1254' from DER, 787' right of centerline, 945' MSL.
Tree 1910' from DER, 1001' left of centerline, 934' MSL.
Tree 2073' from DER, 995' left of centerline, 938' MSL.
**Rwy 31,** tree 202' from DER, 418' right of centerline, 935' MSL.

**CORNING, IA**

CORNING MUNI (CRZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20DEC07 (07354) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** road w/ vehicle, 159' from DER, on centerline, 23' AGL/1262' MSL.
Trees beginning 161' from DER, 110' left of centerline, up to 100 AGL/1329' MSL.
**Rwy 36,** trees beginning 945' from DER, 319' left of centerline, up to 100' AGL/1339' MSL.
Tree 1212' from DER, 653' right of centerline, 100' AGL/1309' MSL.

**COUNCIL BLUFFS, IA**

COUNCIL BLUFFS MUNI (CBF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 26JAN23 (23026) (FAA)

TAKEOFF MINIMUMS:

**Rwy 32,** 300-1⅝ or std. w/min. climb of 242' per NM to 1600.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** trees 73' from DER, 463' right of centerline, 100' AGL/1269' MSL.
**Rwy 32,** trees beginning 782' from DER, 91' right of centerline, 100' AGL/1299' MSL.
Trees 1310' from DER, 206' left of centerline, 100' AGL/1329' MSL.
**Rwy 36,** trees 1196' from DER, 453' right of centerline, 100' AGL/1279' MSL.

**CRESCO, IA**

ELLEN CHURCH FLD (CJJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30JUN88 (21252) (FAA)

DEPARTURE PROCEDURE:

**Rwys 15, 33,** climb runway heading to 1700 before turning.

## CRESTON, IA

CRESTON MUNI (CSQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 18JAN07 (07018) (FAA)

TAKEOFF MINIMUMS:

**Rwys 4, 22,** NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 16,** multiple trees and terrain beginning 152' from DER, 128' left of centerline, up to 70' AGL/1360' MSL.
Multiple bushes and terrain beginning 91' from DER, 93' right of centerline, up to 10' AGL/1313' MSL.
Pole 242' from DER, 199' right of centerline, 7' AGL/1301' MSL.
**Rwy 34,** terrain 561' from DER, 17' left of centerline, 1309' MSL.
Terrain beginning 169' from DER, 236' right of centerline, up to 1309' MSL.
Road/vehicle 756' from DER, on centerline, 15' AGL/1314' MSL.

## CUBA, MO

CUBA MUNI (UBX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 03NOV22 (22307) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** fence 64’ from DER, 348’ left of centerline, 14’ AGL/1038’ MSL.
Tree 1296’ from DER, 68’ left of centerline, 1062’ MSL.
Transmission line 1953’ from DER, 330’ left of centerline, 56’ AGL/1083’ MSL.
Transmission line, pole beginning 2116’ from DER, 72’ right of centerline, up to 56’ AGL/1076’ MSL.
**Rwy 19,** tree 17’ from DER, 353’ left of centerline, 1051’ MSL.
Tree, transmission line beginning 977’ from DER, 145’ left of centerline, up to 1073’ MSL.
Transmission line 1205’ from DER, 198’ right of centerline, 40’ AGL/1063’ MSL.

## DAVENPORT, IA

DAVENPORT MUNI (DVN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10MAR11 (11069) (FAA)

DEPARTURE PROCEDURE:

**Rwy 15,** climb heading 149° to 2400 before turning left.
**Rwy 21,** climb heading 209° to 1400 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 3,** vehicles on roadway, rising terrain and trees beginning 19' from DER, 58' left of centerline, up to 65' AGL/810' MSL.
Vehicles on roadway, rising terrain and trees beginning 536' from DER, 32' right of centerline. up to 36'AGL/777' MSL.
**Rwy 15,** rising terrain and trees beginning 54' from DER, 49' left of centerline, up to 100' AGL/849' MSL.
Rising terrain and trees beginning 85' from DER, 62' right of centerline, up to 79' AGL/810' MSL.
**Rwy 21,** rising terrain and trees beginning 53' from DER, left and right of centerline, up to 43' AGL/784' MSL.
**Rwy 33,** rising terrain beginning at DER, left and right of centerline, up to 784' MSL.

## DECORAH, IA

DECORAH MUNI (DEH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05MAY11 (11125) (FAA)

DEPARTURE PROCEDURE:

**Rwy 29,** Climb heading 294° to 1600 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 11,** terrain beginning 50' from DER, 216' left of centerline, up to 1166' MSL.
Terrain beginning 23' from DER, 218' right of centerline, up to 1170' MSL.
Vehicle on road 406' left of centerline, crossing left to right, up to 15' AGL/1189' MSL.
Poles beginning 378' from DER, 28' left of centerline, up to 63' AGL/1223' MSL.
Tree 89' from DER, 337' left of centerline, 10' AGL/1170' MSL.
Trees 770' from DER, 201' left of centerline, 37' AGL/1197' MSL.
Buildings and signs 1475' from DER, 198' left of centerline, up to 49' AGL/1229' MSL.
Trees beginning 2890' from DER, 397' left of centerline, up to 100' AGL/1250' MSL.
Trees 1292' from DER, 418' right of centerline, 66' AGL/1206' MSL.
Poles and signs beginning 2058' from DER, 28' right of centerline, up to 57' AGL/1227' MSL.
**Rwy 29,** trees beginning 443' from DER, 485' left of centerline, up to 95' AGL/1205' MSL.

## DENISON, IA

DENISON MUNI (DNS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10AUG23 (23222) (FAA)

TAKEOFF MINIMUMS:

**Rwys 18, 36,** NA-Environmental.

**Rwy 12,** 300-1⅜ or std w/min climb of 251'/NM to 1600.

TAKEOFF OBSTACLE NOTES:

**Rwy 12,** tree 9' from DER, 476' left of centerline, 1280' MSL.
Tree, terrain, fence beginning 17' from DER, 202'left of centerline, up to 1305' MSL.
Tree 572' from DER, 349' right of centerline, 1286' MSL.
Trees beginning 2154' from DER, 413' left of centerline, up to 1334' MSL.
Tree 2782' from DER, 726' left of centerline, 1352' MSL.
Trees beginning 1 NM from DER, beginning 1919' right of centerline, up to 1456' MSL.

## DES MOINES, IA

DES MOINES INTL (DSM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 13 30NOV23 (23334) (FAA)

DEPARTURE PROCEDURE:

**Rwy 5,** climb on heading 053° to 1400 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 5,** trees, pole beginning 985' from DER, 400' left of centerline, up to 1020' MSL.
Pole 2280' from DER, 364' right of centerline, 71' AGL/1001' MSL.
Tree, pole beginning 2312' from DER, 377' right of centerline, up to 1004' MSL.
Trees beginning 2341' from DER, 566' right of centerline, up to 1015' MSL.
Tree 2432' from DER, 881' right of centerline, 1018' MSL.
Trees beginning 2452' from DER, 569' right of centerline, up to 1020' MSL.
Trees beginning 2609' from DER, 254' right of centerline, up to 1026' MSL.
Trees beginning 3175' from DER, 78' right of centerline, up to 1048' MSL.
Tree 3436' from DER, 261' left of centerline, 81' AGL/1029' MSL.
Tree 3441' from DER, 356' left of centerline, 84' AGL/1032' MSL.
Trees beginning 3509' from DER, 279' left of centerline, up to 86' AGL/1034' MSL.
Trees beginning 3531' from DER, 246' left of centerline, up to 89' AGL/1038' MSL.
Trees beginning 3565' from DER, 37' left of centerline, up to 94' AGL/1043' MSL.
Trees beginning 4189' from DER, 274' left of centerline, up to 87' AGL/1044' MSL.
Tree 4268' from DER, 306' left of centerline, 85' AGL/1045' MSL.
**Rwy 13,** tree 1427' from DER, 830' left of centerline, 1002' MSL.
Tree 1831' from DER, 918' right of centerline, 1017' MSL.
Tree 2970' from DER, 1142' left of centerline, 1033' MSL.
**Rwy 23,** sign 38' from DER, 259' left of centerline, 4' AGL/917' MSL.
**Rwy 31,** tree 2509' from DER, 907' right of centerline, 977' MSL.

## DEXTER, MO

DEXTER MUNI (DXE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 31JUL08 (08213) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36**, std. w/min. climb of 251' per NM to 1100 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 36,** for climb in visual conditions: Cross Dexter Muni airport at or above 1100 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 36,** trees and wind sock beginning 144' from DER, 128' right of centerline, up to 87' AGL/399' MSL.
Trees beginning 2295' from DER, 169' right of centerline, up to 78' AGL/388' MSL.
Trees beginning 2342' from DER, 164' left of centerline, up to 74' AGL/387' MSL.

## DUBUQUE, IA

### DUBUQUE RGNL (DBQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 11AUG22 (22363) (FAA)

TAKEOFF MINIMUMS:

**Rwy 13,** 300-1¼ or std. w/min. climb of 226' per NM to 1300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** NAVAID 8' from DER, 4' right of centerline, 1' AGL/1063' MSL.
Fence beginning 949' from DER, 746' right of centerline, up to 9' AGL/1089' MSL.
Fence beginning 2027' from DER, 696' right of centerline, up to 10' AGL/1116' MSL.
Tree 2619' from DER, 1126' left of centerline, 67' AGL/1151' MSL.
Tree 2786' from DER, 1065' left of centerline, 62' AGL/1160' MSL.
Trees beginning 2896' from DER, 988' left of centerline, up to 60' AGL/1162' MSL.
Tree and pole beginning 3303' from DER, 282' left of centerline, up to 65' AGL/1166' MSL.
Elevator 4159' from DER, 25' left of centerline, 27' AGL/1167' MSL.
Elevators beginning 4269' from DER, 129' right of centerline, up to 47' AGL/1181' MSL.
Poles beginning 4448' from DER, 21' left of centerline, up to 39' AGL/1184' MSL.
Poles beginning 4498' from DER, 6' right of centerline, up to 41' AGL/1183' MSL.
Pole 4806' from DER, 902' right of centerline, 28' AGL/1185' MSL.
Poles beginning 4856' from DER, 1043' right of centerline, up to 34' AGL/1195' MSL.
**Rwy 18,** elevator 3457' from DER, 242' left of centerline, 80' AGL/1150' MSL.
Tree 1987' from DER, 938' right of centerline, 77' AGL/1088' MSL.
**Rwy 31,** tower and multiple trees beginning 2427' from DER, 490' left of centerline, up to 85' AGL/1168' MSL.

## EAGLE GROVE, IA

### EAGLE GROVE MUNI (EAG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 11FEB10 (10042) (FAA)

TAKEOFF MINIMUMS:

**Rwys 1, 19,** NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** vehicle on road 520' from DER, 495' left of centerline, 15' AGL/1154' MSL.
Train on tracks, 493' from DER, 626' left of centerline, 23' AGL/1152' MSL.
Trees beginning 4352' from DER, 1120' left of centerline, up to 100' AGL/1239' MSL.
**Rwy 31,** vehicle on road abeam DER, 281' left of centerline, 15' AGL/1154' MSL.

## ELDON, MO

### ELDON MODEL AIRPARK (H79)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-B 10SEP20 (20254) (FAA)

DEPARTURE PROCEDURE:

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

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** general utility 10' from DER, 76' left of centerline, 1' AGL/906' MSL.
Tank, terrain, traverse way beginning 10' from DER, 214' left of centerline, up to 18' AGL/918' MSL.
General utility 10' from DER, 78' right of centerline, 6' AGL/907' MSL.
Vertical point, terrain beginning 58' from DER, 24' right of centerline, up to 922' MSL.
Pole, fence, traverse way beginning 185' from DER, 315' right of centerline, up to 938' MSL.
Tree, fence, building, pole, traverse way beginning 363' from DER, 296' right of centerline, up to 974' MSL.
Trees beginning 427' from DER, 426' left of centerline, up to 926' MSL.
Transmission line, pole beginning 888' from DER, 613' left of centerline, up to 31' AGL/941' MSL.
Transmission line, traverse way beginning 1062' from DER, 410' left of centerline, up to 34' AGL/948' MSL.
Tree 1131' from DER, 761' right of centerline, 984' MSL.
Tree, pole beginning 1152' from DER, 307' right of centerline, up to 985' MSL.
Tree, pole beginning 1218' from DER, 321' left of centerline, up to 987' MSL.
Tree, pole, traverse way, sign, transmission line, building beginning 1282' from DER, 192' left of centerline, up to 995' MSL.
Tree, traverse way, pole, transmission line, building beginning 1362' from DER, 33' right of centerline, up to 999' MSL.
Tree, pole, transmission line beginning 1741' from DER, 69' left of centerline, up to 1001' MSL.
**Rwy 36,** terrain 39' from DER, 28' left of centerline, 936' MSL.
Traverse way, terrain beginning 51' from DER, 78' left of centerline, up to 952' MSL.
Traverse way, terrain, tree beginning 51' from DER, 60' right of centerline, up to 944' MSL.
Tree, terrain beginning 239' from DER, 398' left of centerline, up to 963' MSL.
Tree, traverse way beginning 326' from DER, 94' left of centerline, up to 974' MSL.
Tree 747' from DER, 459' right of centerline, 962' MSL.
Trees beginning 931' from DER, 330' right of centerline, up to 973' MSL.
Tree 2715' from DER, 426' left of centerline, 988' MSL.
Tree 2763' from DER, 700' left of centerline, 991' MSL.
Trees beginning 3158' from DER, 1094' left of centerline, up to 1008' MSL.

## EMMETSBURG, IA

EMMETSBURG MUNI (EGQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11FEB10 (10042) (FAA)

TAKEOFF MINIMUMS:

**Rwys 4, 22, 17, 35,** NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** trees beginning 754' from DER, 663' right of centerline, up to 45' AGL/1254' MSL.

**Rwy 31,** trees beginning 392' from DER, 280' left of centerline, up to 45' AGL/1254' MSL.

Trees beginning 1001' from DER, 393' right of centerline, up to 45' AGL/1254' MSL.

## EXCELSIOR SPRINGS, MO

EXCELSIOR SPRINGS MEML (3EX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20AUG15 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwys 3, 21,** 300-1.

TAKEOFF OBSTACLE NOTES:

**Rwy 3,** trees beginning 678' from DER, 22' left of centerline, up to 150' AGL/1159' MSL.

Trees beginning 1897' from DER, 932' right of centerline, up to 150' AGL/1199' MSL.

Vehicles on roads beginning 54' from DER, left and right of centerline, up to 15' AGL/1003' MSL.

**Rwy 21,** trees beginning 384' from DER, 176' left of centerline, up to 150' AGL/1159' MSL.

Trees beginning 565' from DER, 127' right of centerline, up to 150' AGL/1149' MSL.

## FAIRFIELD, IA

FAIRFIELD MUNI (FFL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15MAR07 (07074) (FAA)

TAKEOFF MINIMUMS:

**Rwys 8, 26,** NA-Environmental.

## FARMINGTON, MO

FARMINGTON RGNL (FAM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 29DEC22 (22363) (FAA)

DEPARTURE PROCEDURE:

**Rwy 20,** climb heading 206° to 2000 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 2,** terrain 5' from DER, 323' right of centerline, 952' MSL.

Trees, terrain beginning 41' from DER, 294' right of centerline, up to 992' MSL.

Tree 77' from DER, 443' left of centerline, 970' MSL.

Trees, terrain, buildings beginning 146' from DER, 219' right of centerline, up to 996' MSL.

Trees beginning 186' from DER, 481' left of centerline, up to 982' MSL.

Building, terrain, traverse way beginning 661' from DER, 216' right of centerline, up to 999' MSL.

Tree, building beginning 697' from DER, 581' left of centerline, up to 995' MSL.

Tree, buildings, terrain, fence beginning 736' from DER, 194' right of centerline, up to 1006' MSL.

Pole 897' from DER, 446' left of centerline, 50' AGL/999' MSL.

Trees, terrain beginning 904' from DER, 118' right of centerline, up to 1018' MSL.

Transmission lines, pole beginning 944' from DER, 680' left of centerline, up to 49' AGL/1002' MSL.

Pole, transmission lines beginning 991' from DER, 542' left of centerline, up to 1003' MSL.

Pole, tree beginning 1022' from DER, 446' left of centerline, up to 1012' MSL.

Trees beginning 1058' from DER, 240' left of centerline, up to 1018' MSL.

Trees beginning 1161' from DER, 181' left of centerline, up to 1020' MSL.

Trees, transmission lines, poles, fence, terrain, traverse way, buildings beginning 1178' from DER, 3' right of centerline, up to 1038' MSL.

Trees, transmission lines, poles beginning 1312' from DER, 425' left of centerline, up to 1027' MSL.

Trees, transmission lines, poles beginning 1469' from DER, 204' left of centerline, up to 1031' MSL.

Trees, building beginning 1534' from DER, 12' left of centerline, up to 1043' MSL.

Trees beginning 1664' from DER, 7' right of centerline, up to 1040' MSL.

Trees beginning 1851' from DER, 4' right of centerline, up to 106' AGL/1055' MSL.

Trees, pole beginning 1890' from DER, 21' left of centerline, up to 81' AGL/1057' MSL.

**Rwy 20,** trees beginning 50' from DER, 386' left of centerline, up to 933' MSL.

Tree, terrain beginning 90' from DER, 364' right of centerline, up to 918' MSL.

Terrain, trees and vegetation beginning 136' from DER, 301' right of centerline, up to 5' AGL/919' MSL.

Transmission lines, poles, tree beginning 263' from DER, 388' right of centerline, up to 36' AGL/938' MSL.

Trees beginning 405' from DER, 98' left of centerline, up to 69' AGL/959' MSL.

Tree 915' from DER, 330' right of centerline, 939' MSL.

Pole, trees beginning 1100' from DER, 175' right of centerline, up to 955' MSL.

Trees beginning 1654' from DER, 377' left of centerline, up to 964' MSL.

## FOREST CITY, IA

FOREST CITY MUNI (FXY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 30JAN20 (22167) (FAA)

TAKEOFF MINIMUMS:

**Rwy 33,** 300-2¼ or std. w/min. climb of 244' per NM to 1700.

DEPARTURE PROCEDURE:

**Rwy 33,** climb on heading 332° to 1900 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 9,** tree 4' from DER, 106' right of centerline, 1205' MSL.
Trees beginning 68' from DER, 83' left of centerline, up to 70' AGL/1221' MSL.
Trees beginning 118' from DER, 1' right of centerline, up to 70' AGL/1221' MSL.
Trees beginning 2674' from DER, 16' left of centerline, up to 70' AGL/1228' MSL.
Trees beginning 3560' from DER, 71' left of centerline, up to 70' AGL/1234' MSL.
Trees 3684' from DER, 231' right of centerline, 70' AGL/1228' MSL.
Trees beginning 3781' from DER, 392' left of centerline, up to 70' AGL/1237' MSL.
Trees beginning 4077' from DER, 107' left of centerline, up to 70' AGL/1241' MSL.
Trees beginning 4249' from DER, 731' left of centerline, up to 70' AGL/1244' MSL.
Trees beginning 4298' from DER, 428' left of centerline, up to 70' AGL/1247' MSL.
Trees beginning 4470' from DER, 446' left of centerline, up to 70' AGL/1260' MSL.
**Rwy 15,** fence beginning 6' from DER, 180' right of centerline, up to 7' AGL/1208' MSL.
Tree 26' from DER, 499' left of centerline, 1220' MSL.
Tree 27' from DER, 356' left of centerline, 1228' MSL.
Fence 209' from DER, 142' right of centerline, 8' AGL/1209' MSL.
Tree 328' from DER, 486' left of centerline, 1229' MSL.
Trees beginning 408' from DER, 345' left of centerline, up to 1243' MSL.
Trees beginning 752' from DER, 394' left of centerline, up to 1245' MSL.
Trees beginning 1037' from DER, 506' left of centerline, up to 1256' MSL.
**Rwy 27,** trees beginning 52' from DER, 151' left of centerline, up to 70' AGL/1218' MSL.
Trees beginning 101' from DER, 151' right of centerline, up to 70' AGL/1218' MSL.
Trees beginning 323' from DER, 96' right of centerline, up to 70' AGL/1221' MSL.
Trees beginning 815' from DER, 6' right of centerline, up to 70' AGL/1224' MSL.
Trees beginning 962' from DER, 11' left of centerline, up to 70' AGL/1221' MSL.
Trees 2364' from DER, 575' right of centerline, 70' AGL/1228' MSL.
Trees beginning 2389' from DER, 557' right of centerline, up to 70' AGL/1231' MSL.
**Rwy 33,** building 181' from DER, 483' left of centerline, 15' AGL/1224' MSL.
Pole 249' from DER, 441' left of centerline, 38' AGL/1247' MSL.
Traverse way beginning 343' from DER, 281' right of centerline, up to 1222' MSL.
Tree, traverse way, pole beginning 428' from DER, 25' left of centerline, up to 1270' MSL.
Traverse way beginning 486' from DER, 56' right of centerline, up to 1223' MSL.
Tower 1.8 NM from DER, 2199' left of centerline, 250' AGL/1500' MSL.

## FORT DODGE, IA

FORT DODGE RGNL (FOD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 17DEC09 (09351) (FAA)

DEPARTURE PROCEDURE:

**Rwy 24,** Climb heading 243° to 1700 before turning south.

TAKEOFF OBSTACLE NOTES:

**Rwy 6,** trees beginning 106' from DER, 284' left of centerline, up to16' AGL/1166' MSL.
Trees beginning 1138' from DER, 665' left of centerline, up to 76' AGL/1226' MSL.
**Rwy 12,** pole beginning 431' from DER, 504' left of centerline, 31' AGL/1171' MSL.
Trees beginning 456' from DER, 481' left of centerline, up to 39' AGL/1179' MSL.
Building 592' from DER, 484' left of centerline, 24' AGL/1164' MSL.
Poles beginning 1037' from DER, 306' right of centerline, up to 41' AGL/1171' MSL.
Trees beginning 1227' from DER, 540' right of centerline, up to 68' AGL/1190' MSL.
Feed drop 1901' from DER, 774' right of centerline, 84' AGL/1204' MSL.
**Rwy 24,** sign 54' from DER, 253' left of centerline, 13' AGL/1083' MSL.
Sign 57' from DER, 245' right of centerline, up to 15' AGL/1085' MSL.
Trees beginning 177' from DER, 495' right of centerline, up to 44' AGL/1114' MSL.
**Rwy 30,** trees beginning 71' from DER, left and right of centerline, up to 67' AGL/1167' MSL.
Poles beginning 211' from DER, 421' left of centerline, up to 45' AGL/1135' MSL.
Poles beginning 878' from DER, 54' right of centerline, up to 39' AGL/1139' MSL.

## FORT LEONARD WOOD, MO

WAYNESVILLE-ST ROBERT RGNL FORNEY FLD (TBN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15AUG19 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** pole 11' from DER, 54' left of centerline, 3' AGL/1156' MSL.
Pole 12' from DER, 54' right of centerline, 3' AGL/1156' MSL.
Terrain 22' from DER, 282' left of centerline, 1159' MSL.
General utility 112' from DER, 409' left of centerline, 5' AGL/1168' MSL.
Terrain, sign, NAVAID beginning 163' from DER, on centerline, up to 1169' MSL.
Pole 205' from DER, 543' right of centerline, 31' AGL/1171' MSL.
NAVAID, vehicle on traverse way beginning 270' from DER, on centerline, up to 24' AGL/1172' MSL.
Fence beginning 381' from DER, 77' left of centerline, up to 18' AGL/1170' MSL.
Vehicle on traverse way beginning 437' from DER, 75' left of centerline, up to 1176' MSL.
Tree 851' from DER, 713' right of centerline, 1183' MSL.
Tree 901' from DER, 589' left of centerline, 1190' MSL.
Tree 1140' from DER, 761' right of centerline, 1197' MSL.
Tree 1669' from DER, 97' left of centerline, 1199' MSL.
**Rwy 33,** pole 11' from DER, 54' left of centerline, 3' AGL/1160' MSL.
Pole 12' from DER, 53' right of centerline, 3' AGL/1160' MSL.
Fence 28' from DER, 483' right of centerline, 13' AGL/1170' MSL.
Vehicle on traverse way, pole beginning 68' from DER, 451' right of centerline, up to 1175' MSL.
Trees beginning 294' from DER, 426' right of centerline, up to 1199' MSL.

## FORT MADISON, IA

FORT MADISON MUNI (FSW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 23SEP10 (10266) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 17,** trees beginning at DER, 349' right of centerline, up to 125' AGL/844' MSL.
Trees beginning at DER, 164' left of centerline, up to 125' AGL/844' MSL.
**Rwy 35,** trees beginning 659' from DER, 304' left of centerline, up to 125' AGL/824' MSL.
Trees beginning 3107' from DER, 1184' right of centerline, up to 125' AGL/814' MSL.

## FREDERICKTOWN, MO

A PAUL VANCE FREDERICKTOWN RGNL(H88)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

**Rwy 1,** 300-2¼ or std. w/min. climb of 245' per NM to 1300.

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** trees beginning 9' from DER, 198' right of centerline, up to 955' MSL.
Tree 27' from DER, 121' left of centerline, 876' MSL.
Tree 318' from DER, 431' left of centerline, 915' MSL.
Trees beginning 522' from DER, 188' left of centerline, up to 938' MSL.
Tree 2098' from DER, 641' right of centerline, 956' MSL.
Trees beginning 2111' from DER, 323' right of centerline, up to 957' MSL.
Trees beginning 2234' from DER, 119' right of centerline, up to 962' MSL.
Trees beginning 2348' from DER, 498' right of centerline, up to 963' MSL.
Tree 1.4 NM from DER, 2752' right of centerline, 1099' MSL.
Trees beginning 1.4 NM from DER, 2688' right of centerline, up to 1120' MSL.
Trees beginning 1.4 NM from DER, 2685' right of centerline, up to 1136' MSL.
Trees beginning 1.5 NM from DER, 2640' right of centerline, up to 1138' MSL.
Trees beginning 1.5 NM from DER, 2558' right of centerline, up to 1141' MSL.
Tree 1.5 NM from DER, 2838' right of centerline, 1146' MSL.
Trees beginning 1.5 NM from DER, 2079' right of centerline, up to 1149' MSL.
Trees beginning 1.5 NM from DER, 2489' right of centerline, up to 1159' MSL.
Trees beginning 1.5 NM from DER, 1894' right of centerline, up to 1162' MSL.
Trees beginning 1.6 NM from DER, 1882' right of centerline, up to 1169' MSL.
Tree, traverse way beginning 1.6 NM from DER, 2091' right of centerline, up to 1171' MSL.
Trees beginning 1.6 NM from DER, 1590' right of centerline, up to 1174' MSL.
Trees beginning 1.6 NM from DER, 1840' right of centerline, up to 1177' MSL.
Tree 1.7 NM from DER, 2717' right of centerline, 1151' MSL.
**Rwy 19**, pole 10' from DER, 50' right of centerline, 26' AGL/876' MSL.

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## FULTON, MO

ELTON HENSLEY MEML (FTT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 24MAY18 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwys 12, 30,** NA - Environmental.

DEPARTURE PROCEDURE:

**Rwy 36,** climb heading 001° to 1400 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** tree 1506' from DER, 809' right of centerline, 100' AGL/989' MSL.

**Rwy 36,** tree 1809' from DER, 272' right of centerline, 46' AGL/923' MSL.

## GRAIN VALLEY, MO

EAST KANSAS CITY (3GV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13NOV14 (14317) (FAA)

TAKEOFF MINIMUMS:

**Rwy 9,** 300-1½ or std. w/min. climb of 225' per NM to 1200 or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1900' prior to DER.

**Rwy 23,** 300- 1 5/8 or std. w/min. climb of 363' per NM to 1100.

**Rwy 27,** 300- 1¾ or std. w/min. climb of 301' per NM to 1100.

TAKEOFF OBSTACLE NOTES:

**Rwy 5,** vehicles beginning 27' from DER, 208' left of centerline, up to 15' AGL/854' MSL.
Hangars beginning 42' from DER, 261' right of centerline, up to 24' AGL/873' MSL.
Trees beginning 1' from DER, 208' left of centerline, up to 100' AGL/939' MSL.
Trees beginning 537' from DER, 554' right of centerline, up to 100' AGL/939' MSL.

**Rwy 9,** vehicles beginning 2' from DER, 175' right of centerline, up to 15' AGL/825' MSL.
Train beginning 6' from DER, 203' right of centerline, up to 23' AGL/833' MSL.
Trees beginning 7' from DER, 320' left of centerline, up to 100' AGL/920' MSL.
Trees beginning 12' from DER, 354' right of centerline, up to 100' AGL/1040' MSL.

**Rwy 23,** hangars beginning 16' from DER, 432' right of centerline, up to 24' AGL/863' MSL.
Trees beginning 35' from DER, 271' left side of centerline, up to 100' AGL/919' MSL.
Trees beginning 1931' from DER, 796' right of centerline, up to 100' AGL/919' MSL.
Trees beginning 3501' from DER, 1335' left of centerline, up to 100' AGL/1020' MSL.
Trees beginning 1.1 NM from DER, 150' right of centerline, up to 100' AGL/1000' MSL.
Trees beginning 1.12 NM from DER, 351' left of centerline, up to 100' AGL/1050' MSL.

**Rwy 27,** trees beginning 34' from DER, 458' left of centerline, up to 100' AGL/919' MSL.
Vehicles beginning 26' from DER, 145' right of centerline, up to 15' AGL/854' MSL.
Trees beginning 2148' from DER, 687' left of centerline, up to 100' AGL/949' MSL.
Trees beginning 4410' from DER, 357' right of centerline, up to 100' AGL/1050' MSL.

## GREENFIELD, IA

GREENFIELD MUNI (GFZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13JAN11 (11013) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 7,** terrain 26' from DER, 252' left of centerline, up to 1367' MSL.

**Rwy 14,** trees beginning 431' from DER, 327' left of centerline, up to 100' AGL/1479' MSL.
Vehicle on road 297' from DER, 60' right of centerline, 15' AGL/1374' MSL.

**Rwy 25,** terrain, trees and fence beginning 96' from DER, 160' left of centerline, up to 38' AGL/1397' MSL.

**Rwy 32,** tree 906' from DER, 292' left of centerline, 100' AGL/1439' MSL.

## GIDEON, MO

GIDEON MEML (M85)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02MAY13 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** vehicle on road beginning 171' from DER, left and right of centerline, up to 15' AGL/284' MSL.
Power lines beginning 521' from DER, 296' left of centerline, up to 40' AGL/309' MSL.
Trees beginning 874' from DER, 577' left of centerline up to 150' AGL/419' MSL.
Trees beginning 1809' from DER, 100' right of centerline, up to 150' AGL/419' MSL.

**Rwy 33,** vehicle on road beginning 204' from DER, 283' left of centerline, up to 15' AGL/284' MSL.
Trees and poles beginning 481' from DER, 224' left of centerline, up to 150' AGL/419' MSL.
Building 574' from DER, 374' left of centerline, 20' AGL/289' MSL.
Powerlines beginning 891' from DER, left and right of centerline, up to 40' AGL/309' MSL.
Mill and water tower beginning 1920' from DER, 813' left of centerline, up to 142' AGL/411' MSL.

**GRINNELL, IA**
GRINNELL RGNL (GGI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 05JUN08 (08157) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 13,** road plus vehicles beginning 164' from DER, 497' left of centerline, 15' AGL/1024' MSL.
Trees beginning 958' from DER, 324' left of centerline, up to 50' AGL/1059' MSL.
**Rwy 31,** tree 681' from DER, 589' right of centerline, up to 75' AGL/1075' MSL.
Tree 716' from DER, 610' left of centerline, up to 50' AGL/1009' MSL.
Road plus vehicle beginning 22' from DER, 215' right of centerline, 15' AGL/995' MSL.
Multiple poles and buildings beginning 492' from DER, 249' right of centerline, up to 23' AGL/1032' MSL.

**GUTHRIE CENTER, IA**
GUTHRIE COUNTY RGNL (GCT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 06MAY10 (10126) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** vehicle on road 599' from DER, 9' left of centerline, 15' AGL/1234' MSL.
Tree beginning 1083' from DER, 432' right of centerline, 100' AGL/1319' MSL.
Tree beginning 1147' from DER, 141' left of center, 100' AGL/1319' MSL.
**Rwy 36,** tree beginning 1609' from DER, 432' right of centerline, 100' AGL/1319' MSL.
Tree beginning 604' from DER, 240' left of centerline, 100' AGL/1319' MSL.

**HAMPTON, IA**
HAMPTON MUNI (HPT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 10MAR11 (11069) (FAA)
TAKEOFF MINIMUMS:
**Rwy 17,** 400-1. **Rwy 35,** 300-1 or std. w/min. climb of 471' per NM to 1500.
TAKEOFF OBSTACLE NOTES:
**Rwy 17,** tower 238' from DER, 536' left of centerline, 30' AGL/1188' MSL.

**HANNIBAL, MO**
HANNIBAL RGNL (HAE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07MAY09 (09127) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 17,** trees beginning 15' from DER, 205' right of centerline, up to 80' AGL/819' MSL.
**Rwy 35,** trees beginning 377' from DER, 90' left of centerline, up to 60' AGL/809' MSL.
Trees beginning 1870' from DER, 103' right of centerline, up to 66' AGL/814' MSL.

**HARLAN, IA**
HARLAN MUNI (HNR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 23SEP10 (10266) (FAA)
TAKEOFF MINIMUMS:
**Rwys 3, 21,** NA-Environmental.
**Rwy 15,** 300-1¾ or std. w/ min. climb of 250' per NM to 1600.
TAKEOFF OBSTACLE NOTES:
**Rwy 15,** vehicle on road beginning 207' from DER, left and right of centerline, up to 17' AGL/1216' MSL.
Pole and parked plane beginning 151' from DER, 361' left of centerline, 50' AGL/1210' MSL.
Power pole 989' from DER, 9' right of centerline, 50' AGL/1249' MSL.
Trees beginning 3253' from DER, 624' left of centerline, up to 100' AGL/1439' MSL.
**Rwy 33,** antenna 1' from DER, 267' left of centerline, 10' AGL/1250' MSL.
Rising terrain, trees, and posts beginning 23' from DER, left and right of centerline, up to 92' AGL/1333' MSL.
Fence beginning 88' from DER, 73' right of centerline, up to 26' AGL/1286' MSL.
Vehicle on road beginning 84' from DER, left and right of centerline, up to 15' AGL/1379' MSL.

## HARRISONVILLE, MO
LAWRENCE SMITH MEML (LRY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (21112) (FAA)
TAKEOFF MINIMUMS:
**Rwy 35,** 300-1¾ or std. w/min. climb of 346' per NM to 1300.
TAKEOFF OBSTACLE NOTES:
**Rwy 17,** vehicle on road 660' from DER, 618' left of centerline, 15' AGL/914' MSL.
Tree 26' from DER, 448' left of centerline, 10' AGL/889' MSL.
Multiple trees beginning 178' from DER, on centerline, up to 88' AGL/937' MSL.
Multiple trees beginning 1271' from DER, 277' left of centerline, up to 53'AGL/932' MSL.
Multiple trees beginning 1722' from DER, 500' right of centerline, up to 100' AGL/959' MSL.
**Rwy 35,** multiple trees beginning 69' from DER, 439' left of centerline, up to 57' AGL/984' MSL.
Vehicle on road 620' from DER, on centerline, up to 15' AGL/934' MSL.
Multiple trees beginning 572' from DER, 130' right of centerline, up to 69' AGL/987' MSL.
Multiple trees beginning 2132' from DER, 103' right of centerline, up to 85' AGL/1034' MSL.
Multiple trees beginning 3635' from DER, 877' right of centerline up to 100' AGL/1059' MSL.
Multiple trees beginning 3819' from DER, 280' left of centerline, up to 100' AGL/1099' MSL.
Trees beginning 5443' from DER, 1738' left of centerline, up to 100' AGL/1079' MSL.
Tank 1.5 NM from DER, 1141' right of centerline, 203' AGL/1153' MSL.

## HIGGINSVILLE, MO
HIGGINSVILLE INDUSTRIAL MUNI (HIG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 28SEP06 (06271) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 16,** multiple trees beginning 87' from DER, 389' right of centerline, up to 100' AGL/879' MSL.
Multiple trees beginning 472' from DER, 313' left of centerline, up to 100' AGL/889' MSL.
Multiple trees beginning 626' from DER, 472' left of centerline, up to 75' AGL/854' MSL.
**Rwy 34,** multiple trees beginning 23' from DER, 155' right of centerline, up to 100' AGL/949' MSL.
Multiple trees beginning 1860' from DER, 76' right of centerline, up to 100' AGL/919' MSL.
Road 644' from DER, on centerline, 15' AGL/864' MSL.

## HOUSTON, MO
HOUSTON MEML (M48)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 07OCT21 (21280) (FAA)
TAKEOFF MINIMUMS:
**Rwy 16,** 300-1 or std. w/min. climb gradient of 400’ per NM to 1400.
TAKEOFF OBSTACLE NOTES:
**Rwy 16,** tree 93’ from DER, 330’ right of centerline, up to 1225’ MSL.
Building 184’ from DER, 492’ left of centerline, 18’ AGL/1188’ MSL.
Trees, building and spire beginning 762’ from DER, 439’ left of centerline, up to 1246’ MSL.
Tree 1357’ from DER, 657’ left of centerline, 1257’ MSL.
Tank 3602’ from DER, 1320’ right of centerline, 141’ AGL/1345’ MSL.
**Rwy 34,** tree 1180’ from DER, 609’ left of centerline, 1281’ MSL.

## INDEPENDENCE, IA
JAMES H CONNELL FIELD AT INDEPENDENCE MUNI (IIB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5A 21MAY20 (20142) (FAA)
DEPARTURE PROCEDURE:
**Rwy 18,** climbing right turn heading 190° and CID R-338 to 3300 before proceeding on course.
**Rwy 36,** climb on heading 359° to 2200 before proceeding on course.

## IOWA CITY, IA
IOWA CITY MUNI (IOW)
TAKEOFF MINIMUMS AND (OBSTACLE)DEPARTURE PROCEDURES
AMDT 5 03NOV22 (22307) (FAA)
TAKEOFF MINIMUMS:
**Rwy 7,** 300-1¼ or std. w/min. climb of 205’ per NM to 900.
**Rwy 25,** 300-1¼ or std. w/min. climb of 255’ per NM to 900.
**Rwy 30,** 300-1⅞ w/min. climb of 210’ per NM to 1200, or std. w/min. climb of 710’ per NM to 900, or 1000-3 for VCOA.
DEPARTURE PROCEDURE:
**Rwy 7,** climbing right turn heading 180° to intercept IOW VOR/DME R-057 to IOW VOR/DME before proceeding on course.
VCOA:
**Rwy 30,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Iowa City Muni airport at or above 1500 before proceeding on course.
**CON’T**

## IOWA CITY, IA (CON'T)

### IOWA CITY MUNI (IOW) (CON'T)

TAKEOFF OBSTACLE NOTES:

**Rwy 7,** sign, fence beginning 39' from DER, 167' right of centerline, up to 2' AGL/655' MSL.
Fence 159' from DER, 400' left of centerline, 7' AGL/657' MSL.
Vehicles on road beginning 267' from DER, 2' right of centerline, up to 660' MSL.
Vehicle on road 317' from DER, 97' left of centerline, 660' MSL.
Vehicle on road 332' from DER, 215' left of centerline, 661' MSL.
Tree 388' from DER, 557' right of centerline, 672' MSL.
Pole, trees, building beginning 429' from DER, 22' left of centerline, up to 36' AGL/686' MSL.
Tree 490' from DER, 373' right of centerline, 678' MSL.
Trees beginning 541' from DER, 38' right of centerline, up to 689' MSL.
Tree 954' from DER, 243' left of centerline, 691' MSL.
Tree 1020' from DER, 332' right of centerline, 691' MSL.
Trees beginning 1029' from DER, 42' right of centerline, up to 698' MSL.
Trees beginning 1045' from DER, 102' left of centerline, up to 697' MSL.
Trees beginning 1684' from DER, 247' right of centerline, up to 713' MSL.
Pole 1822' from DER, 903' left of centerline, 58' AGL/701' MSL.
Pole 2491' from DER, 924' right of centerline, 73' AGL/718' MSL.
Pole 2492' from DER, 322' left of centerline, 70' AGL/718' MSL.
Pole 2553' from DER, 733' right of centerline, 71' AGL/719' MSL.
Poles beginning 2604' from DER, 355' right of centerline, up to 72' AGL/721' MSL.
Pole 2733' from DER, 162' right of centerline, 73' AGL/722' MSL.
Pole 2736' from DER, 126' left of centerline, 70' AGL/719' MSL.
Pole 2806' from DER, 31' left of centerline, 75' AGL/723' MSL.
Tree 4086' from DER, 85' right of centerline, 754' MSL.
Tree 4397' from DER, 360' left of centerline, 761' MSL.
Tree 4434' from DER, 87' left of centerline, 763' MSL.
Tree 4477' from DER, 19' left of centerline, 766' MSL.
Trees beginning 4527' from DER, 81' left of centerline, up to 767' MSL.
Tree 4746' from DER, 465' left of centerline, 780' MSL.
Tree 4857' from DER, 378' left of centerline, 786' MSL.
Tree 5012' from DER, 430' left of centerline, 789' MSL.
Trees beginning 5345' from DER, 81' left of centerline, up to 795' MSL.
Trees beginning 5578' from DER, 162' left of centerline, up to 796' MSL.
Tree 5827' from DER, 406' left of centerline, 798' MSL.
Tree 1 NM from DER, 1162' right of centerline, 806' MSL.
**Rwy 12,** vegetation 83' from DER, 366' right of centerline, 652' MSL.
Fence 131' from DER, 374' left of centerline, 6' AGL/655' MSL.
Pole, vehicles on road beginning 633' from DER, 129' left of centerline, up to 35' AGL/689' MSL.
Buildings, vehicle on road beginning 783' from DER, 23' left of centerline, up to 36' AGL/692' MSL.
Poles, vehicles on road beginning 850' from DER, 1' right of centerline, up to 29' AGL/681' MSL.
Trees beginning 1074' from DER, 28' left of centerline, up to 717' MSL.
Poles, tree beginning 1082' from DER, 136' right of centerline, up to 34' AGL/688' MSL.
Tree 1251' from DER, 370' right of centerline, 709' MSL.
Trees beginning 1343' from DER, 39' right of centerline, up to 721' MSL.
Tree 2016' from DER, 874' left of centerline, 719' MSL.
Trees beginning 2169' from DER, 35' left of centerline, up to 725' MSL.
Trees beginning 2226' from DER, 327' left of centerline, up to 743' MSL.
Trees, pole beginning 2734' from DER, 183' left of centerline, up to 768' MSL.
Trees beginning 3305' from DER, 1210' left of centerline, up to 769' MSL.
**Rwy 25,** lighting 9' from DER, 40' left of centerline, 1' AGL/684' MSL.
Lighting 9' from DER, 39' right of centerline, 1' AGL/684' MSL.
Terrain 954' from DER, 438' left of centerline, 711' MSL.
Vehicle on road, terrain beginning 974' from DER, 437' left of centerline, up to 720' MSL.
Fences beginning 1096' from DER, 381' left of centerline, up to 4' AGL/726' MSL.
Fence, vehicle on road, terrain beginning 1098' from DER, 422' left of centerline, up to 12' AGL/734' MSL.
Pole, sign beginning 1199' from DER, 242' right of centerline, up to 24' AGL/735' MSL.
Pole, fences, terrain, vehicle on road beginning 1289' from DER, 409' left of centerline, up to 25' AGL/751' MSL.
Buildings, vehicles on road, signs, poles beginning 1315' from DER, 168' right of centerline, up to 26' AGL/740' MSL.
Signs, vehicles on road beginning 1503' from DER, 103' right of centerline, up to 25' AGL/743' MSL.
Tree, building beginning 1515' from DER, 532' left of centerline, up to 756' MSL.
Pole 1608' from DER, 519' right of centerline, 24' AGL/747' MSL.
Tree 1624' from DER, 519' left of centerline, 757' MSL.
Pole, building beginning 1651' from DER, 657' left of centerline, up to 21' AGL/758' MSL.
Transmission line, building beginning 1665' from DER, 248' right of centerline, up to 39' AGL/754' MSL.
Trees, poles, vehicles on road beginning 1676' from DER, 36' right of centerline, up to 783' MSL.
Trees, vehicles on road, poles, buildings, signs beginning 1744' from DER, 9' right of centerline, up to 798' MSL.
Pole, vehicles on road, fence beginning 1805' from DER, 44' left of centerline, up to 24' AGL/766' MSL.
Poles, signs, vehicles on road, vegetation, buildings, windmill, tree beginning 1884' from DER, 5' left of centerline, up to 35' AGL/780' MSL.
Poles, buildings, signs, vehicles on road beginning 2365' from DER, 2' left of centerline, up to 45' AGL/784' MSL.
Signs, poles, trees, vehicles on road, building beginning 2545' from DER, 3' left of centerline, up to 51' AGL/801' MSL.
Poles, trees beginning 3325' from DER, 253' left of centerline, up to 55' AGL/805' MSL.
**CON'T**

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## IOWA CITY, IA (CON'T)

### IOWA CITY MUNI (IOW) (CON'T)

**Rwy 25 (CON'T),** poles, trees, electrical system, vehicles on road, sign, building beginning 3448' from DER, 308' left of centerline, up to 47' AGL/809 ' MSL.
Tree 4404' from DER, 426' right of centerline, 804' MSL.
Tree 4419' from DER, 392' right of centerline, 809' MSL.
Trees beginning 4558' from DER, 268' right of centerline, up to 811' MSL.
Trees, poles beginning 4597' from DER, 136' right of centerline, up to 822' MSL.
Tree 4941' from DER, 1681' left of centerline, 838' MSL.
Trees, poles beginning 5068' from DER, 228' left of centerline, up to 844' MSL.
Tree 5792' from DER, 1606' left of centerline, 850' MSL.
**Rwy 30,** lighting 9' from DER, 17' left of centerline, 2' AGL/662' MSL.
Lighting 9' from DER, 17' right of centerline, 2' AGL/662' MSL.
Poles beginning 140' from DER, 498' right of centerline, up to 28' AGL/690' MSL.
Pole 330' from DER, 455' right of centerline, 28' AGL/692' MSL.
Tree, poles beginning 574' from DER, 227' left of centerline, up to 692' MSL.
Poles, vehicles on road beginning 1114' from DER, 11' right of centerline, up to 41' AGL/712 ' MSL.
Pole, vehicles on road beginning 1191' from DER, 7' left of centerline, up to 34' AGL/697' MSL.
Tree 1420' from DER, 460' right of centerline, 737' MSL.
Tree 1434' from DER, 494' right of centerline, 758' MSL.
Trees beginning 1444' from DER, 89' left of centerline, up to 742' MSL.
Trees, pole beginning 1449' from DER, 55' right of centerline, up to 770' MSL.
Trees beginning 1547' from DER, 259' left of centerline, up to 745' MSL.
Trees beginning 1617' from DER, 754' right of centerline, up to 785' MSL.
Trees beginning 1641' from DER, 86' left of centerline, up to 752' MSL.
Tree 1715' from DER, 149' right of centerline, 786' MSL.
Tree 1728' from DER, 415' right of centerline, 800' MSL.
Trees, pole, tower beginning 1739' from DER, 8' right of centerline, up to 814' MSL.
Trees beginning 1746' from DER, 90' left of centerline, up to 769' MSL.
Trees beginning 1951' from DER, 36' left of centerline, up to 777' MSL.
Trees beginning 2026' from DER, 4' left of centerline, up to 786' MSL.
Trees beginning 2455' from DER, 24' left of centerline, up to 787' MSL.
Tree 2622' from DER, 239' left of centerline, 804' MSL.
Trees beginning 2629' from DER, 20' left of centerline, up to 806' MSL.
Trees, buildings beginning 2719' from DER, 149' left of centerline, up to 827' MSL.
Trees beginning 2763' from DER, 50' right of centerline, up to 830' MSL.
Trees, building beginning 2994' from DER, 18' left of centerline, up to 833' MSL.
Trees, bldg twr beginning 3111' from DER, 46' right of centerline, up to 837' MSL.
Trees, transmission lines, poles, buildings beginning 3478' from DER, on centerline, up to 852' MSL.
Trees, pole, buildings beginning 4364' from DER, 35' right of centerline, up to 854' MSL.
Tower 1.5 NM from DER, 2501' right of centerline, 258' AGL/936' MSL.

## IOWA FALLS, IA

### IOWA FALLS MUNI (IFA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (09071) (FAA)

TAKEOFF OBSTACLE NOTES:
**Rwy 13,** multiple trees and buildings beginning 1092' from DER, 349' left of centerline, up to 100' AGL/1239' MSL. **Rwy 31,** multiple trees and buildings beginning 1023' from DER, 750' left of centerline, up to 100' AGL/1259' MSL.

## JEFFERSON, IA

### JEFFERSON MUNI (EFW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 07OCT21 (21280) (FAA)

TAKEOFF MINIMUMS:
**Rwy 18, 36,** NA-Environmental.
**Rwy 32,** 300-1¾ or std. w/min. climb of 259' per NM to 1400.

TAKEOFF OBSTACLE NOTES:
**Rwy 14,** traverse way, terrain beginning 4' from DER, 173' right of centerline, up to 1061' MSL.
**Rwy 32,** terrain 4' from DER, 187' left of centerline, 1044' MSL.
Terrain 16' from DER, 326' left of centerline, 1047' MSL.
Terrain beginning 16' from DER, 352' left of centerline, up to 1049' MSL.
Tree, beginning 35' from DER, 496' right of centerline, 1071' MSL.
Tree, traverse way beginning 98' from DER, 4' right of centerline, up to 1077' MSL.
Tree 910' from DER, 691' left of centerline, 1086' MSL.
Tree 932' from DER, 749' left of centerline, 1105' MSL.
Building tower 968' from DER, 706' left of centerline, 53' AGL/1108' MSL.
Trees beginning 991' from DER, 453' left of centerline, up to 1113' MSL.
Trees beginning 1115' from DER, 464' left of centerline, up to 1122' MSL.
Tree, building beginning 1202' from DER, 335' left of centerline, up to 1132' MSL.
Grain elevator 1.3 NM from DER, 1702' left of centerline, 250' AGL/1308' MSL.
Elevator beginning 1.3 NM from DER, 1703' left of centerline, up to 256' AGL/1311' MSL.
Tower 1.3 NM from DER, 2606' left of centerline, 199' AGL/1257' MSL.

## JEFFERSON CITY, MO

### JEFFERSON CITY MEML (JEF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 20DEC07 (21168) (FAA)

TAKEOFF MINIMUMS:

**Rwy 9,** 300-1¾.

**Rwy 27,** 300-1½ or std. w/min. climb of 337' per NM to 900.

DEPARTURE PROCEDURE:

**Rwy 9,** climb heading 088° to 1200 before proceeding on course.

**Rwy 12,** climb heading 120° to 1100 before proceeding on course.

**Rwy 27,** climb heading 268° to 1100 before proceeding on course.

**Rwy 30,** climb heading 300° to 1000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 9,** glideslope antenna 1101' from DER, 598' right of centerline, 31' AGL/577' MSL.

Trees beginning 4022' from DER, 1487' left to 1110' right of centerline, up to 100' AGL/839' MSL.

**Rwy 12,** trees beginning 2134' from DER, 980' left of centerline, up to 56' AGL/603' MSL.

**Rwy 27,** hangar and trees beginning 600' from DER, 199' right of centerline, up to 100' AGL/739' MSL.

Antenna on bridge, tower, water treatment plant, and trees beginning 94' from DER, 113' left of centerline, up to 100' AGL/759' MSL.

**Rwy 30,** light on DME, sign, tower, poles, and trees beginning 617' from DER, 216' left of centerline, up to 109' AGL/649' MSL.

Vehicles on road, pole and trees beginning 397' from DER, 265' right of centerline, up to 133' AGL/681' MSL.

## JOPLIN, MO

### JOPLIN RGNL (JLN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 07DEC17 (17341) (FAA)

DEPARTURE PROCEDURE:

**Rwy 13,** climb heading 134° to 1700 before turning right.

**Rwy 18,** climb heading 178° to 2300 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** terrain 60' from DER, 496' right of centerline, 979' MSL.

Tree 476' from DER, 501' left of centerline, 989' MSL.

Tree 867' from DER, 484' right of centerline, 1008' MSL.

Tree 979' from DER, 665' right of centerline, 1017' MSL.

Tree 1057' from DER, 448' right of centerline, 1021' MSL.

Tree 1097' from DER, 594' right of centerline, 1029' MSL.

Trees beginning 1100' from DER, 614' left of centerline, up to 1028' MSL.

Trees beginning 1145' from DER, 282' right of centerline, up to 1033' MSL.

Trees beginning 1226' from DER, 47' right of centerline, up to 1036' MSL.

Tree 1332' from DER, 598' left of centerline, 1031' MSL.

Trees beginning 1405' from DER, 15' left of centerline, up to 1039' MSL.

Trees beginning 1868' from DER, 37' left of centerline, up to 1040' MSL.

Tree 2092' from DER, 249' left of centerline, 1043' MSL.

Tree 2792' from DER, 1210' right of centerline, 1048' MSL.

**Rwy 18,** NAVAID 515' from DER, 630' right of centerline, 12' AGL/987' MSL.

NAVAID 1160' from DER, 264' right of centerline, 23' AGL/1007' MSL.

Pole 1578' from DER, 621' left of centerline, 24' AGL/1012' MSL.

**Rwy 31,** transmission line, pole beginning 617' from DER, 644' left of centerline, up to 39' AGL/969' MSL.

Trees beginning 839' from DER, 416' left of centerline, up to 987' MSL.

Trees beginning 1142' from DER, 567' left of centerline, up to 995' MSL.

Trees beginning 1198' from DER, 168' left of centerline, up to 996' MSL.

Trees beginning 1271' from DER, 570' right of centerline, up to 985' MSL.

Trees beginning 1378' from DER, 797' right of centerline, up to 996' MSL.

Trees beginning 1523' from DER, 47' left of centerline, up to 999' MSL.

Tree 2090' from DER, 870' left of centerline, 1004' MSL.

Tree 2213' from DER, 1045' left of centerline, 1005' MSL.

Trees beginning 2330' from DER, 1019' left of centerline, up to 84' AGL/1019' MSL.

**Rwy 36,** NAVAID 4' from DER, 0' right of centerline, 1' AGL/950' MSL.

Terrain 685' from DER, 656' right of centerline, 969' MSL.

## KAISER LAKE OZARK, MO

### LEE C FINE MEML (AIZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30MAY13 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 4,** pole 366' from DER, 446' right of centerline, 17' AGL/887' MSL.

Trees beginning 333' from DER, 480' right of centerline, up to 80' AGL/913' MSL.

Trees beginning 584' from DER, 456' left of centerline, up to 80' AGL, 914' MSL.

**Rwy 22,** trees beginning 233' from DER, 133' right of centerline, up to 80' AGL/949' MSL.

Trees beginning 26' from DER, 350' left of centerline, up to 80' AGL/937' MSL.

## KANSAS CITY, MO

### CHARLES B WHEELER DOWNTOWN (MKC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 05OCT23 (23278) (FAA)

TAKEOFF MINIMUMS:

**Rwy 1,** 300-1⅞ or std w/min climb of 201'/NM to 1000.
**Rwy 19,** std w/min climb of 465'/NM to 2500.
**Rwy 22,** 300-1⅝ or std w/min climb of 260'/NM to 1000.

DEPARTURE PROCEDURE:

**Rwy 1,** climb on heading 012° to 1700 before proceeding on course.
**Rwy 4,** climb on heading 037° to 1900 before proceeding on course.
**Rwy 19,** climbing right turn heading 215° to 2500 before proceeding on course.
**Rwy 22,** climb on heading 217° to 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** traverse way 275' from DER, 134' left of centerline, 767' MSL.
Pole 3076' from DER, 1066' right of centerline, 95' AGL/842' MSL.
Building 4048' from DER, 995' right of centerline, 875' MSL.
Tree 1.5 NM from DER, 1169' right of centerline, 997' MSL.
**Rwy 4,** NAVAID 10' from DER, 41' left of centerline, 1' AGL/744' MSL.
Poles, traverse way, tree beginning 50' from DER, 46' right of centerline, up to 39' AGL/788' MSL.
Tower, building beginning 145' from DER, 259' left of centerline, up to 12' AGL/755' MSL.
Traverse way, tree beginning 172' from DER, 16' left of centerline, up to 761' MSL.
Poles, traverse way beginning 285' from DER, 16' right of centerline, up to 49' AGL/794' MSL.
Traverse way beginning 340' from DER, on and left of centerline, up to 782' MSL.
Pole, buildings, traverse way beginning 596' from DER, 73' left of centerline, up to 42' AGL/785' MSL.
Tree, traverse way, building, poles beginning 742' from DER, 29' left of centerline, up to 797' MSL.
Tank, traverse way, building beginning 780' from DER, 285' right of centerline, up to 66' AGL/810' MSL.
Elevator, poles, traverse way, trees, buildings beginning 827' from DER, 45' right of centerline, up to 125' AGL/865' MSL.
Towers, tank beginning 1852' from DER, 98' left of centerline, up to 108' AGL/850' MSL.
Tower beginning 3825' from DER, 131' left of centerline, up to 115' AGL/859' MSL.
Building 5135' from DER, 924' left of centerline, 130' AGL/874' MSL.
**Rwy 19,** building 190' from DER, 281' right of centerline, 15' AGL/758' MSL.
Traverse way 199' from DER, 506' left of centerline, 760' MSL.
Traverse way 323' from DER, 460' right of centerline, 760' MSL.
Traverse way 355' from DER, 297' right of centerline, 761' MSL.
Traverse way 380' from DER, 177' right of centerline, 762' MSL.
Building, dam, traverse way beginning 383' from DER, 55' right of centerline, up to 29' AGL/769' MSL.
Tree 610' from DER, 485' left of centerline, 808' MSL.
Trees beginning 1000' from DER, 132' right of centerline, up to 817' MSL.
Pole 2867' from DER, 161' left of centerline, 84' AGL/833' MSL.
Pole 2996' from DER, 540' right of centerline, 82' AGL/830' MSL.
Smokestack 3211' from DER, 420' left of centerline, 168' AGL/908' MSL.
Building beginning 3412' from DER, 74' right of centerline, up to 141' AGL/889' MSL.
Building, monument beginning 4211' from DER, 1447' left of centerline, up to 51' AGL/993' MSL.
Building beginning 4372' from DER, 178' right of centerline, up to 162' AGL/912' MSL.
Building 5586' from DER, 470' right of centerline, 189' AGL/937' MSL.
Bldg twr, building beginning 6034' from DER, 1702' left of centerline, up to 100' AGL/1016' MSL.
Pole 1.5 NM from DER, 1294' left of centerline, 74' AGL/1017' MSL.
Tree 1.5 NM from DER, 1054' left of centerline, 1023' MSL.
Building 2.4 NM from DER, 3878' left of centerline, 291' AGL/1251' MSL.
Tower 2.4 NM from DER, 3136' left of centerline, 1160' AGL/2049' MSL.
**Rwy 22,** tree 52' from DER, 12' right of centerline, 745' MSL.
Traverse way, fence beginning 196' from DER, 379' right of centerline, up to 761' MSL.
Dam, traverse way beginning 297' from DER, 2' right of centerline, up to 1' AGL/762' MSL.
Traverse way beginning 398' from DER, 28' left of centerline, up to 761' MSL.
Dam beginning 432' from DER, 57' right of centerline, up to 8' AGL/763' MSL.
Dam, traverse way beginning 526' from DER, 53' left of centerline, up to 1' AGL/762' MSL.
Tree 964' from DER, 538' left of centerline, 781' MSL.
Trees beginning 1066' from DER, 591' left of centerline, up to 792' MSL.
Trees beginning 1486' from DER, 571' right of centerline, up to 831' MSL.
Trees beginning 1510' from DER, 19' left of centerline, up to 809' MSL.
Trees beginning 1619' from DER, 264' right of centerline, up to 93' AGL/836' MSL.
Cranes, domes beginning 2729' from DER, 349' right of centerline, up to 98' AGL/849' MSL.
Poles beginning 3686' from DER, 632' right of centerline, up to 118' AGL/858' MSL.
Building 4690' from DER, 1700' left of centerline, 120' AGL/866' MSL.
Buildings 4796' from DER, 1714' left of centerline, 869' MSL, up to 152' AGL/898' MSL.
Elevator 5178' from DER, 810' left of centerline, 152' AGL/901' MSL.
Industrial system 1 nm from DER, 1047' left of centerline, 164' AGL/911' MSL.
Smokestack 1.3 NM from DER, 587' left of centerline, 198' AGL/948' MSL.

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## KANSAS CITY, MO (CON'T)

KANSAS CITY INTL (MCI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27OCT05 (05300) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 1R,** tree 1653' from DER, 661' left of centerline, 60' AGL/1019' MSL.
**Rwy 9,** tree 4544' from DER, 638' right of centerline, 100' AGL/1159' MSL.
**Rwy 27,** trees beginning 1066' from DER, across centerline, up to 86' AGL/1095' MSL.

## KENNETT, MO

KENNETT MEML (TKX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 06MAR14 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 2,** trees beginning 1163' from DER, 502' left of centerline, up to 51' AGL/309' MSL.
Pole 1062' from DER, 417' left of centerline, 28' AGL/286' MSL.
Multiple trees beginning 1221' from DER, 324' right of centerline, up to 96' AGL/354' MSL.
**Rwy 20,** trees beginning 2018' from DER, 75' left of centerline, up to 62' AGL/321' MSL.
Vehicles on road 49' from DER, 405' right of centerline, 15' AGL/269' MSL.
Dead tree 1056' from DER, 324' right of centerline, 42' AGL/300' MSL.
Trees beginning 1027' from DER, 94' right of centerline, up to 53' AGL/312' MSL.
Tree line beginning 1085' from DER, 420' right of centerline, up to 40' AGL/299' MSL.
**Rwy 36,** hangar 64' from DER, 299' left of centerline, 21' AGL/281' MSL.
Trees beginning 98' from DER, 352' left of centerline, up to 49' AGL/309' MSL.
Sign 1050' from DER, 448' right of centerline, 45' AGL/305' MSL.

## KEOKUK, IA

KEOKUK MUNI (EOK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 28SEP06 (06271) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 8,** tree 79' from DER, 513' right of centerline, 26' AGL/695' MSL.
Fence and trees 102' from DER, 298' left of centerline, 37' AGL/706' MSL.
**Rwy 14,** multiple trees 200' from DER, 156' left of centerline, 65' AGL/704' MSL.
Multiple trees 172' from DER, 92' right of centerline, 70' AGL/739' MSL.
**Rwy 26,** tree 298' from DER, 496' left of centerline, 56' AGL/695' MSL.
Tank and trees 351' from DER, 508' right of centerline, 111' AGL/790' MSL.
**Rwy 32,** multiple trees 303' from DER, 243' left of centerline 56' AGL/725' MSL.
Hanger and tree 281' from DER, 442' right of centerline, 61' AGL/730' MSL.

## KIRKSVILLE, MO

KIRKSVILLE RGNL (IRK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05JUL07 (07186) (FAA)

TAKEOFF MINIMUMS:

**Rwys 9, 27,** NA-turf runways.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple trees beginning 986' from DER, 278' left of centerline, up to 44' AGL/1023' MSL.
**Rwy 36,** multiple trees and poles beginning 935' from DER, 179' right of centerline, up to 54' AGL/1033' MSL. Obstruction light on DME antenna 649' from DER, 269' right of centerline, 7' AGL/986' MSL.
Truck on road beginning 1081' from DER, 785' right of centerline, 17' AGL/996' MSL.
Tree 326' from DER, 473' left of centerline, 17' AGL/976' MSL.

## KNOXVILLE, IA

KNOXVILLE (OXV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08APR10 (10098) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** vehicle and road beginning 49' from DER, 295' left of centerline, up to 15' AGL/937' MSL.
Trees beginning 387' from DER, 389' right of centerline, up to 100' AGL/1029' MSL.
Poles beginning 407' from DER, 224' left of centerline, up to 61' AGL/962' MSL.
Buildings beginning 506' from DER, 406' right of centerline, up to 28' AGL/948' MSL.
Trees beginning 685' from DER, 396' left of centerline, up to 100' AGL/1029' MSL.
**Rwy 33,** trees beginning 33' from DER, 440' left of centerline, up to 73' AGL/963' MSL.
Trees beginning 39' from DER, 465' right of centerline, up to 100' AGL/1029' MSL.
Fence beginning 86' from DER, 350' right of centerline, up to 9' AGL/930' MSL.
Vehicle and road beginning 158' from DER, 490' right of centerline, up to 15' AGL/931' MSL.

## LAMAR, MO
### LAMAR MUNI (LLU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 29MAY14 (14149) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 3,** sign 9' from DER, 124' left of centerline, 13' AGL/998' MSL.
Tank 16' from DER, 502' right of centerline, 13' AGL/998' MSL.
Buildings beginning 66' from DER, 333' right of centerline, up to 40' AGL/1021' MSL.
Poles beginning 198' from DER, 252' right of centerline, up to 63' AGL/1038' MSL.
Pole 752' from DER, 644' left of centerline, 32' AGL/1020' MSL.
Vehicle on road beginning 190' from DER, 216' left of centerline, up to 15' AGL/1007' MSL.
Trees beginning 846' from DER, 127' left of centerline, up to 62' AGL/1040' MSL.
Trees beginning 292' from DER, 209' right of centerline, up to 50' AGL/1045' MSL.
**Rwy 17,** rising terrain beginning 66' from DER, 372' left of centerline, up to 999' MSL.
Trees beginning 816' from DER, 441' left of centerline, up to 54' AGL/1049' MSL.
Trees beginning 261' from DER, 264' right of centerline, up to 67' AGL/1043' MSL.
**Rwy 21,** vehicle on road beginning 5' from DER, 245' left of centerline, up to 15' AGL/1021' MSL.
Telephone poles and lines beginning 593' from DER, left and right of centerline, up to 70' AGL/1064' MSL.

## LAMONI, IA
### LAMONI MUNI (LWD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 02DEC21 (21336) (FAA)
DEPARTURE PROCEDURE:
**Rwy 18,** climb on heading 178° to 1600 before turning right.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** fence, terrain beginning 2' from DER, 271' left of centerline, up to 3' AGL/1137' MSL.
Trees beginning188' from DER, 359' left of centerline, up to 1152' MSL.
Trees beginning 227' from DER, 375' left of centerline, up to 1163' MSL.
Trees beginning 431' from DER, 400' left of centerline, up to 1186' MSL.
Trees beginning 1198' from DER, 446' left of centerline, up to 1187' MSL.
Tree 1208' from DER, 147' right of centerline, 1161' MSL.
**Rwy 36,** antenna 111' from DER, 353' left of centerline, 31' AGL/1147' MSL.
Building beginning 132' from DER, 330' right of centerline, up to 28' AGL/1144' MSL.
Tree 144' from DER, 234' left of centerline, 1157' MSL.
Trees beginning 174' from DER, 229' right of centerline, up to 1145' MSL.
Trees beginning 344' from DER, 178' left of centerline, up to 1180' MSL.
Tree 677' from DER, 319' right of centerline, 1178' MSL.

## LE MARS, IA
### LE MARS MUNI (LRJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 31DEC20 (20366) (FAA)
DEPARTURE PROCEDURE:
**Rwy 18,** climbing right turn heading 265° to 3000 before proceeding on course.
**Rwy 36,** climb on heading 005° to 1800 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** vehicles on road, NAVAID beginning 6' from DER, 17' left of centerline, up to 1214' MSL.
NAVAID 9' from DER, 17' right of centerline, 3' AGL/1195' MSL.
Building, NAVAID, sign beginning 10' from DER, 37' right of centerline, up to 28' AGL/1218' MSL.
Vehicles on road beginning 91' from DER, 341' left of centerline, up to 1223' MSL.
Pole, vehicles on road, terrain beginning 337' from DER, 91' left of centerline, up to 1236' MSL.
Tree, vehicles on road, building, pole, tank beginning 760' from DER, 46' left of centerline, up to 1266' MSL.
Tree 1043' from DER, 759' right of centerline, 1227' MSL.
Tree 1180' from DER, 768' right of centerline, 1230' MSL.
Tree 1364' from DER, 764' right of centerline, 1239' MSL.
Tree 1384' from DER, 617' right of centerline, 1250' MSL.
Pole 2663' from DER, 373' left of centerline, 65' AGL/1272' MSL.
**Rwy 36,** terrain 6' from DER, 120' right of centerline, 1195' MSL.
Tree 149' from DER, 399' left of centerline, 1206' MSL.
Tree 1607' from DER, 840' left of centerline, 1265' MSL.
Tree 1826' from DER, 899' left of centerline, 1268' MSL.
Trees beginning 1838' from DER, 599' left of centerline, up to 1293' MSL.
Trees beginning 2042' from DER, 428' left of centerline, up to 1306' MSL.
Trees beginning 2220' from DER, 6' left of centerline, up to 1307' MSL.

## LEBANON, MO

FLOYD W JONES LEBANON (LBO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 300-1¼ or std. w/ min. climb of 245' per NM to 1600', or alternatively, with standard TAKEOFF minimums and a normal 200' per NM climb gradient, TAKEOFF must occur no later than 2000' prior to DER.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple trees beginning 49' from DER, 388' right of centerline, up to 88' AGL/1398' MSL.
Pole 440' from DER, 409' right of centerline, up to 44' AGL/1334' MSL.
**Rwy 36,** multiple poles and trees beginning 151' from DER, 366' left of centerline, up to 72' AGL/1372' MSL.
Multiple trees beginning 679' from DER, 504' right of centerline, up to 67' AGL/1367' MSL.
Tower 5528' from DER, 186' right of centerline, up to 182' AGL/1472' MSL.

## LEE'S SUMMIT, MO

LEE'S SUMMIT MUNI (LXT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 01FEB18 (18032) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 11,** vehicle on road 6' from DER, 14' left of centerline, 1002' MSL.
Fence, terrain and vehicle on road beginning 15' from DER, 256' right of centerline, up to 1014' MSL.
Sign and terrain beginning 18' from DER, 125' left of centerline, up to 1004' MSL.
Building 139' from DER, 387' left of centerline, 27' AGL/1023' MSL.
Building 169' from DER, 334' right of centerline, 26' AGL/1018' MSL.
Trees, vehicle on road and fence beginning 179' from DER, 339' left of centerline, up to 31' AGL/1029' MSL.
Buildings and tree beginning 182' from DER, 398' right of centerline, up to 1021' MSL.
Trees beginning 447' from DER, 181' left of centerline, up to 1039' MSL.
**Rwy 18,** tree 1' from DER, 414' left of centerline, 1018' MSL.
Tree 29' from DER, 470' right of centerline, 991' MSL.
Trees beginning 112' from DER, 268' left of centerline, up to 75' AGL/1027' MSL.
Tree 717' from DER, 654' left of centerline, 1057' MSL.
Trees and vegetation beginning 732' from DER, 383' left of centerline, up to 1059' MSL.
Trees beginning 764' from DER, 467' right of centerline, up to 1030' MSL.
Trees, vegetation, fences and pole beginning 888' from DER, 383' left of centerline, up to 58' AGL/1062' MSL.
Trees and pole beginning 2490' from DER, 622' left of centerline, up to 1076' MSL.
Trees and pole beginning 2796' from DER, 47' left of centerline, up to 1079' MSL.
Trees and building beginning 2922' from DER, 48' left of centerline, up to 1083' MSL.
Trees and pole beginning 3047' from DER, 56' left of centerline, up to 1090' MSL.
Trees beginning 3064' from DER, 410' right of centerline, up to 1076' MSL.
**Rwy 29,** fence 129' from DER, 496' left of centerline, 998' MSL.
Building, tank, fence and vehicles on road beginning 140' from DER, 387' right of centerline, up to 15' AGL/1006' MSL.
Poles and vehicles on road beginning 223' from DER, 407' right of centerline, up to 25' AGL/1017' MSL.
Pole, tower and building beginning 380' from DER, 430' right of centerline, up to 1028' MSL.
Tree 515' from DER, 491' left of centerline, 1014' MSL.
Tree 538' from DER, 636' left of centerline, 1029' MSL.
Tree 1850' from DER, 991' right of centerline, 1043' MSL.
Tree 2125' from DER, 895' right of centerline, 1050' MSL.
**Rwy 36,** vertical structure 25' from DER, 505' right of centerline, 7' AGL/1001' MSL.
Trees and pole beginning 62' from DER, 393' right of centerline, up to 1010' MSL.
Tree 121' from DER, 517' left of centerline, 999' MSL.
Trees beginning 216' from DER, 244' left of centerline, up to 1011' MSL.
Trees beginning 424' from DER, 253' right of centerline, up to 1019' MSL.
Tree 715' from DER, 469' left of centerline, 1016' MSL.
Tree 1409' from DER, 234' right of centerline, 49' AGL/1031' MSL.

## MACON, MO

MACON-FOWER MEML (K89)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03APR14 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 2,** 300-1½ or std. w/min. climb of 254' per NM to 1200.

TAKEOFF OBSTACLE NOTES:

**Rwy 2,** terrain beginning 15' from DER, 82' left of centerline, up to 854' MSL.
Trees beginning 20' from DER, 268' left of centerline, up to 74' AGL/912' MSL.
Trees and telephone lines beginning 356' from DER, 70' left of centerline, up to 84' AGL/890' MSL.
Terrain beginning 4' from DER, 92' right of centerline, up to 854' MSL.
Trees beginning 46' from DER, 287' right of centerline, up to 66' AGL/914' MSL.
Trees, telephone line, and pole beginning 278' from DER, 2' right of centerline, up to 75' AGL/902' MSL.
Antenna 1.1 NM from DER, 1426' left of centerline, 202' AGL/1059' MSL.

**CON'T**

22 FEB 2024 to 21 MAR 2024
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## MACON, MO (CON'T)

MACON-FOWER MEML (K89) (CON'T)

**Rwy 20,** trees beginning 33' from DER, 454' left of centerline, up to 53' AGL/929' MSL.
Poles beginning 425' from DER, 133' left of centerline, up to 38' AGL/909' MSL.
Trees beginning 1111' from DER, 4' left of centerline, up to 66' AGL/928' MSL.
Trees beginning 1999' from DER, 163' left of centerline, up to 85' AGL/934' MSL.
Tree 2542' from DER, 503' left of centerline, 91' AGL/942' MSL.
Crane 42' from DER, 433' right of centerline, 13' AGL/884' MSL.
Poles beginning 498' from DER, 548' right of centerline, up to 38' AGL/912' MSL.
Poles beginning 865' from DER, 100' right of centerline, up to 38' AGL/907' MSL.
Tree 1078' from DER, 674' right of centerline, 62' AGL/933' MSL.
Trees beginning 1201' from DER, 53' right of centerline, up to 69' AGL/937' MSL.

## MALDEN, MO

MALDEN RGNL (MAW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22OCT09 (09295) (FAA)

DEPARTURE PROCEDURE:
**Rwy 32,** climb heading 317° to 900 before turning left.

TAKEOFF OBSTACLE NOTES:
**Rwy 14,** trees 1619' from DER, 856' right of centerline, 100' AGL/394' MSL.
**Rwy 18,** trees 2744' from DER, 996' left of centerline, 100' AGL/394' MSL.
Trees 2766' from DER, 1042' right of centerline, 100' AGL/394' MSL.
**Rwy 36,** trees 2841' from DER, 1157' left of centerline, 100' AGL/399' MSL.

## MAPLETON, IA

JAMES G WHITING MEML FLD (MEY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11FEB10 (21112) (FAA)

TAKEOFF MINIMUMS:
**Rwy 2,** 400-2¾ or std. w/ min. climb of 417' per NM to 1700.
**Rwy 20,** 500-2¾ or std. w/ a min. climb of 249' per NM to 1700.

DEPARTURE PROCEDURE:
**Rwy 2,** climb heading 019° to 1700 before turning left.
**Rwy 20,** climb heading 199° to 1700 before turning left.

TAKEOFF OBSTACLE NOTES:
**Rwy 2,** tree 5817' from DER, 748' left of centerline, 100' AGL/1419' MSL.

## MAQUOKETA, IA

MAQUOKETA MUNI (OQW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 01MAR18 (18060) (FAA)

TAKEOFF MINIMUMS:
**Rwy 33,** 300-1¼ or std. w/ min. climb of 238' per NM to 1000, or alternatively with std. 200' per NM climb gradient, takeoff must occur no later than 1800 feet prior to DER.

TAKEOFF OBSTACLE NOTES:
**Rwy 15,** terrain beginning 175' from DER, 59' right of centerline, up to 824' MSL.
Trees beginning 2209' from DER, 222' right of centerline, up to 50' AGL/889' MSL.
Terrain beginning 94' from DER, 70' left of centerline, up to 745' MSL.
**Rwy 33,** multiple power lines beginning 992' from DER, left and right of centerline, up to 50' AGL/829' MSL.
Trees beginning 1423' from DER, 607' right of centerline, up to 50' AGL/909' MSL.
Terrain beginning 1030' from DER, 655' right of centerline, up to 909' MSL.

## MARION, IA

MARION (C17)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10AUG23 (23222) (FAA)

TAKEOFF MINIMUMS:
**Rwy 35,** 500-2 or std w/min climb of 341'/NM to 1500.

TAKEOFF OBSTACLE NOTES:
**Rwy 17,** trees 39' from DER, 160' left of centerline up to 53' AGL/907' MSL.
Trees 161' from DER, 167' left of centerline up to 42' AGL/896' MSL.
**Rwy 35,** vehicle 143' from DER on centerline, 15' AGL/876' MSL.
Sign 663' from DER, 146' right of centerline, 18' AGL/879' MSL.
Pole 220' from DER, 330' left of centerline, 37' AGL/898' MSL.
Pole 214' from DER, 341' left of centerline, 28' AGL/889' MSL.
Trees 461' from DER, 416' left of centerline, 45' AGL/906' MSL.
Pole 255' from DER, 80' left of centerline, 22' AGL/883' MSL.
Building 342' from DER, 226' left of centerline, 20' AGL/881' MSL.
Tree 269' from DER, 47' left of centerline, 15' AGL/876' MSL.
Pole 887' from DER, 106' left of centerline, 31' AGL/888' MSL.

## MARSHALL, MO
MARSHALL MEML MUNI (MHL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 30NOV23 (23334) (FAA)
TAKEOFF MINIMUMS:
**Rwys 9, 27,** NA-Environmental.
DEPARTURE PROCEDURE:
**Rwy 18,** climb on heading 178° to 1600 before turning right.
**Rwy 36,** climb on heading 358° to 1200 before turning left.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** sign 15' from DER, 199' left of centerline, 4' AGL/780' MSL.
General utility 37' from DER, 77' right of centerline, 4' AGL/780' MSL.
Pole 231' from DER, 448' left of centerline, 31' AGL/801' MSL.
Building 278' from DER, 573' left of centerline, 39' AGL/811' MSL.
**Rwy 36,** trees, poles beginning 15' from DER, 356' left of centerline, up to 829' MSL.
Tree, pole beginning 167' from DER, 446' right of centerline, up to 809' MSL.
Tower 318' from DER, 482' right of centerline, 53' AGL/817' MSL.
Trees beginning 450' from DER, 494' right of centerline, up to 829' MSL.
Tree 507' from DER, 399' left of centerline, 831' MSL.
Trees beginning 515' from DER, 387' left of centerline, up to 845' MSL.
Trees, pole beginning 669' from DER, 15' right of centerline, up to 837' MSL.
Trees, poles beginning 781' from DER, 40' left of centerline, up to 847' MSL.
Trees, pole beginning 1036' from DER, 25' left of centerline, up to 849' MSL.
Trees, pole beginning 1235' from DER, 12' right of centerline, up to 838' MSL.
Trees beginning 1328' from DER, 76' left of centerline, up to 853' MSL.
Trees beginning 1383' from DER, 30' left of centerline, up to 862' MSL.
Trees beginning 1577' from DER, on centerline, up to 848' MSL.
Trees beginning 1754' from DER, 44' right of centerline, up to 858' MSL.
Tree 2555' from DER, 612' right of centerline, 860' MSL.
Trees beginning 2564' from DER, 81' right of centerline, up to 867' MSL.
Tree 4268' from DER, 485' left of centerline, 884' MSL.

## MARSHALLTOWN, IA
MARSHALLTOWN MUNI (MIW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 13,** runway end indicator lights 27' from DER,126' left and right of centerline, up to 5' AGL/974' MSL.
Vehicles on road beginning 37' from DER, left and right of centerline, up to 15' AGL/ 988' MSL.
Tree 96' from DER, 167' left of centerline, 19' AGL/988' MSL.
Trees beginning 1984' from DER, 777' right of centerline, up to 100' AGL/1059' MSL.
**Rwy 18,** vehicles on road beginning 585' from DER, left and right of centerline, up to 15' AGL/994' MSL.
Tree 1152' from DER 511' right of centerline, 100' AGL/1069' MSL.
**Rwy 31,** trees beginning 5' from DER, 384' right of centerline, up to 50' AGL/1029' MSL.
Trees beginning 55' from DER, 424' left of centerline, up to 36' AGL/1005' MSL.
Transmission tower 60' from DER, 478' right of centerline, 23' AGL/1002' MSL.
**Rwy 36,** trees beginning 191' from DER, 175' right of centerline, up to 11' AGL/981' MSL.
Trees beginning 514' from DER, 465' left of centerline, up to 44' AGL/1023' MSL.

## MARYVILLE, MO
NORTHWEST MISSOURI RGNL (EVU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 17OCT13 (13290) (FAA)
DEPARTURE PROCEDURE:
**Rwy 32,** climb heading 323° to 1800 before turning right.
TAKEOFF OBSTACLE NOTES:
**Rwy 32,** tree 436' from DER, 321' left of centerline, 58' AGL/1156' MSL.

## MASON CITY, IA
MASON CITY MUNI (MCW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 12NOV15 (15316) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 12,** building 1599' from DER, 461' left of centerline, 53' AGL/1233' MSL.
Tree 1619' from DER, 722' left of centerline, up to 56' AGL/1245' MSL.
Trees beginning 2919' from DER, 1006' left of centerline, up to 100' AGL/1289' MSL.
Trees beginning 2900' from DER, 978' right of centerline, up to 100' AGL/1289' MSL.
**Rwy 18,** trees beginning 1280' from DER, 703' left of centerline, up to 56' AGL/1236' MSL.
Trees 1652' from DER, 699' right of centerline, up to 63 AGL/1243'MSL.
**CON'T**

**MASON CITY, IA (CON'T)**

MASON CITY MUNI (MCW) (CON'T)

**Rwy 30,** tree 54' from DER, 487' left of centerline, 45' AGL/1254' MSL.
Bush 69' from DER, 333' left of centerline, 7' AGL/1216' MSL.
Tree 859' from DER, 549' left of centerline, 27' AGL/1236' MSL.
Pole 899' from DER, 559' right of centerline, 26' AGL/1235' MSL.
Pole 1197' from DER, 354' right of centerline, 27' AGL/1246' MSL.
Pole 1218' from DER, 332' right of centerline, 36' AGL/1246' MSL.
Tree 1714' from DER, 167' right of centerline, 53' AGL/1272' MSL.
Tree 1798' from DER, 57' right of centerline, 53' AGL/1272' MSL.
Trees beginning 2042' from DER, 821' right of centerline, up to 100' AGL/1339' MSL.
Tree 2364' from DER, 551' right of centerline, 73' AGL/1302' MSL.
Obstruction light on building 2434' from DER, 232' right of centerline, 53' AGL/1282' MSL.
Tree 2608' from DER, 236' right of centerline, 68' AGL/1297' MSL.
Trees beginning 4008' from DER, 1487' left of centerline, up to 100' AGL/1319' MSL.
Trees beginning 4421' from DER, 961' left of centerline, up to 100' AGL/1329' MSL.

**MAURICE, IA**

SIOUX COUNTY RGNL (SXK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 28FEB19 (19059) (FAA)

TAKEOFF OBSTACLE NOTES:
**Rwy 35,** terrain 36' from DER, 163' right of centerline, 1412' MSL.
Terrain 172' from DER, 143' right of centerline, 1414' MSL.
Terrain 187' from DER, 11' left of centerline, 1414' MSL.

**MEMPHIS, MO**

MEMPHIS MEML (03D)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 08JAN15 (21056) (FAA)

TAKEOFF OBSTACLE NOTES:
**Rwy 12,** trees beginning 119' from DER, 320' right of centerline, up to 80' AGL/845' MSL.
Power line poles beginning 165' from DER, 400' left of centerline, 29' AGL/836' MSL.
Trees beginning 329' from DER, 202' left of centerline, up to 60' AGL/845' MSL.
**Rwy 30,** road beginning 33' from DER, 250' left of centerline, 15' AGL/823' MSL.
Trees beginning 68' from DER, 252' right of centerline, up to 70' AGL/875' MSL.
Power line poles beginning 950' from DER, 449' right of centerline, 31' AGL/837' MSL.
Windsock and poles beginning 1074' from DER, 113' left of centerline, 24' AGL/845' MSL.
Trees beginning 988' from DER, 283' left of centerline, up to 70' AGL/878' MSL.
Terrain beginning 99' from DER, 169' right of centerline, up to 816' MSL.

**MEXICO, MO**

MEXICO MEML (MYJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 19FEB04 (21112) (FAA)

TAKEOFF MINIMUMS:
**Rwy 24,** std. with a min. climb of 230' per NM to 2200, or 900-2½ for climb in visual conditions.
**Rwy 36,** NA, Obstacles.

DEPARTURE PROCEDURE:
**Rwy 24,** for climb in visual conditions: cross Mexico Meml airport at or above 1700.

TAKEOFF OBSTACLE NOTES:
**Rwy 6,** multiple trees and antennas beginning 60' from DER, left and right of centerline, up to 100' AGL/902' MSL.

**MILFORD, IA**

FULLER (4D8)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 03JAN19 (19003)

TAKEOFF MINIMUMS:
**Rwys 18, 36,** NA-Environmental.
**Rwy 27,** 400-2½ or std. w/min. climb of 275' per NM to 2000.

TAKEOFF OBSTACLE NOTES:
**Rwy 9,** building abeam DER, 1182' left of centerline, 30' AGL/1469' MSL.
Building abeam DER, 383' right of centerline, 30' AGL/1469' AGL. Trees 135' from DER, 177' left of centerline, up to 50' AGL/1489' MSL.
Vehicles on road 152' from DER, 233' right of centerline, 15' AGL/1454' MSL.
Buildings beginning 1445' from DER, 6' left of centerline, up to 30' AGL/1469' MSL.
Buildings beginning 1445' from DER, 60' right of centerline, up to 30' AGL/1469' MSL.
Trees beginning 419' from DER, 35' left of centerline, up to 50' AGL/1489' MSL.
Trees beginning 532' from DER, 176' right of centerline, up to 50' AGL/1489' MSL.
**CON'T**

## MILFORD, IA (CON'T)

FULLER (4D8) (CON'T)

**Rwy 27,** trees beginning 157' from DER, 135' left of centerline, up to 50' AGL/1489' MSL.
Vehicles on road 427' from DER, on centerline and left and right of centerline, up to 15' AGL/1454' MSL.
Trees beginning 451' from DER, 164' right of centerline, up to 50' AGL/1479' MSL.
Building 518' from DER, 164' left of centerline, 30' AGL/1469' MSL.
Tower 1.8 NM from DER, 3060' right of centerline, 320' AGL/1771' MSL.

## MOBERLY, MO

OMAR N BRADLEY (MBY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 27JAN22 (22027) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 5,** trees beginning 115' from DER, 7' left of centerline, up to 100' AGL/967' MSL.
Trees beginning 120' from DER, 12' right of centerline, up to 100' AGL/970' MSL.
Trees beginning 1420' from DER, 27' left of centerline, up to 100' AGL/970' MSL.
**Rwy 13,** trees beginning 859' from DER, 602' right of centerline, up to 903' MSL.
Trees beginning 891' from DER, 426' right of centerline, up to 79' AGL/915' MSL.
Tree 1103' from DER, 397' right of centerline, 916' MSL.
Trees beginning 1126' from DER, 154' right of centerline, up to 84' AGL/920' MSL.
Tree 1176' from DER, 720' left of centerline, 899' MSL.
Tree 1237' from DER, 605' left of centerline, 903' MSL.
Trees beginning 1348' from DER, 392' left of centerline, up to 913' MSL.
Trees beginning 1488' from DER, 371' left of centerline, up to 106' AGL/929' MSL.
Trees beginning 2634' from DER, 168' right of centerline, up to 86' AGL/933' MSL.
Trees beginning 2682' from DER, 205' right of centerline, up to 88' AGL/935' MSL.
**Rwy 23,** trees beginning 56' from DER, 14' left of centerline, up to 100' AGL/970' MSL.
Trees beginning 68' from DER, 4' right of centerline, up to 100' AGL/970' MSL.
Vehicle on road 630' from DER, crossing extended runway centerline, 15' AGL/884' MSL.
**Rwy 31,** vehicle on road beginning 279' from DER, crossing extended runway centerline, up to 877' MSL.
Trees beginning 419' from DER, 444' right of centerline, up to 915' MSL.
Trees, tower, antenna, building beginning 484' from DER, 403' right of centerline, up to 64' AGL/926' MSL.
Trees, poles beginning 564' from DER, 350' right of centerline, up to 77' AGL/939' MSL.
Tree 1211' from DER, 696' left of centerline, 905' MSL.
Tree 1245' from DER, 563' left of centerline, 910' MSL.
Trees beginning 1356' from DER, 670' left of centerline, up to 70' AGL/911' MSL.

## MONETT, MO

MONETT RGNL (HFJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 03NOV22 (22307) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** fence 1' from DER, 437' left of centerline, 1301' MSL.
Trees beginning 541' from DER, 422' left of centerline, up to 1341' MSL.
Tree 1750' from DER, 226' left of centerline, 1343' MSL.
**Rwy 36,** building 24' from DER, 494' right of centerline, 21' AGL/1342' MSL.
Pole 100' from DER, 438' right of centerline, 27' AGL/1343' MSL.
Pole, building beginning 236' from DER, 436' right of centerline, up to 27' AGL/1344' MSL.
Buildings, poles beginning 296' from DER, 438' right of centerline, up to 27' AGL/1346' MSL.
Trees beginning 859' from DER, 550' right of centerline, up to 1378' MSL.
Trees beginning 946' from DER, 458' left of centerline, up to 1343' MSL.
Tree 1067' from DER, 555' left of centerline, 1350' MSL.
Trees beginning 1205' from DER, 117' left of centerline, up to 1351' MSL.

## MONROE CITY, MO

CPT BEN SMITH AIRFIELD - MONROE CITY (K52)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 01FEB18 (21280) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 9,** tree 2845' from DER. 875' left of centerline, 100' AGL/844' MSL.
Tree 607' from DER, on centerline,80' AGL/819' MSL.
**Rwy 27,** tree 34' from DER, 466' right of centerline, 100' AGL/839' MSL.
Vehicle on road beginning 454' from DER, 571' right of centerline, 15' AGL/754' MSL.

## MONTICELLO, IA

MONTICELLO RGNL (MXO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4A 30NOV23 (23334) (FAA)

TAKEOFF MINIMUMS:

**Rwys 9, 27,** NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** lighting, NAVAID beginning 9' from DER, 103' right of centerline, up to 2' AGL/831' MSL.
Lighting, NAVAID, terrain beginning 10' from DER, 104' left of centerline, up to 2' AGL/834' MSL.
Terrain 29' from DER, 496' right of centerline, 833' MSL.
Vehicles on road beginning 57' from DER, 453' right of centerline, up to 844' MSL.
Tree 791' from DER, 706' left of centerline, 871' MSL.
Trees beginning 2361' from DER, 264' right of centerline, up to 911' MSL.
Tree 2425' from DER, 334' right of centerline, 916' MSL.
Tree 2433' from DER, 964' right of centerline, 920' MSL.
Trees beginning 2441' from DER, 389' right of centerline, up to 923' MSL.
Trees beginning 2531' from DER, 2' right of centerline, up to 931' MSL.
Trees beginning 2652' from DER, 713' right of centerline, up to 938' MSL.
Trees, pole beginning 2724' from DER, 47' right of centerline, up to 948' MSL.
Trees beginning 2923' from DER, 2' left of centerline, up to 934' MSL.
Trees beginning 2999' from DER, 48' left of centerline, up to 938' MSL.
**Rwy 33,** lighting 9' from DER, 246' right of centerline, 2' AGL/832' MSL.
Lighting 9' from DER, 17' left of centerline, 2' AGL/827' MSL.
Lighting, NAVAID, tree, terrain beginning 10' from DER, 105' right of centerline, up to 2' AGL/834' MSL.
Tree 222' from DER, 405' right of centerline, 835' MSL.
Pole 602' from DER, 597' right of centerline, 26' AGL/869' MSL.
Vehicle on road 704' from DER, 642' left of centerline, 860' MSL.
Vehicles on road, sign beginning 791' from DER, 465' left of centerline, up to 865' MSL.
Vehicles on road, signs, fence, tree beginning 897' from DER, 106' left of centerline, up to 872' MSL.
Vehicles on road beginning 962' from DER, 714' right of centerline, up to 871' MSL.
Vehicles on road, tree, fence, terrain beginning 1085' from DER, 44' left of centerline, up to 878' MSL.
Vehicles on road, signs beginning 1126' from DER, 630' right of centerline, up to 872' MSL.
Vehicles on road, signs beginning 1233' from DER, 14' right of centerline, up to 873' MSL.
Vehicles on road beginning 1266' from DER, 386' left of centerline, up to 882' MSL.
Tree, vehicles on road, sign beginning 1336' from DER, 48' left of centerline, up to 896' MSL.
Vehicles on road, terrain beginning 1395' from DER, 68' right of centerline, up to 879' MSL.
Poles, vehicles on road, signs, terrain, trees beginning 1437' from DER, 27' right of centerline, up to 37' AGL/892' MSL.
Tree 1480' from DER, 859' left of centerline, 915' MSL.
Trees, vehicles on road, bridge, poles beginning 1492' from DER, 14' left of centerline, up to 923' MSL.
Tree, vehicles on road beginning 1840' from DER, 55' right of centerline, up to 900' MSL.
Trees beginning 2302' from DER, 454' left of centerline, up to 930' MSL.
Trees beginning 2613' from DER, 348' left of centerline, up to 942' MSL.
Trees beginning 2919' from DER, 429' left of centerline, up to 946' MSL.
Tree 4181' from DER, 264' right of centerline, 935' MSL.
Tree 4280' from DER, 473' right of centerline, 936' MSL.
Tree 4290' from DER, 146' right of centerline, 949' MSL.

## MONTICELLO, MO

LEWIS COUNTY RGNL (6M6)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 28SEP06 (06271) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 36,** tree 2609' from DER, 980' right of centerline, 45' AGL/741' MSL.

## MOSBY, MO

MIDWEST NTL AIR CENTER (GPH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20DEC07 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple trees beginning 1562' from DER, 16' right of centerline, up to 100' AGL/861' MSL.
Multiple trees beginning 1278' from DER, 46' left of centerline, up to 100' AGL/859' MSL.
**Rwy 36,** multiple trees beginning 2224' from DER, 57' right of centerline, up to 100' AGL/889' MSL.
Multiple trees beginning 2302' from DER, 231' left of centerline, up to 100' AGL/916' MSL.

## MOUNT PLEASANT, IA

MOUNT PLEASANT MUNI (MPZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 23SEP10 (10266) (FAA)

TAKEOFF MINIMUMS:

**Rwys 3, 21,** NA-Environmental.

**Rwy 33,** 400-2½ or std. w/ min. climb of 244' per NM to 1300.

TAKEOFF OBSTACLE NOTES:

**Rwy 15,** equipment 3' from DER, 261' right of centerline, up to 10' AGL/734' MSL.

**Rwy 33,** trees beginning 178' from DER, 235' right of centerline, up to 80' AGL/751' MSL.

Trees beginning 333' from DER, 209' left of centerline, up to 80' AGL/753' MSL.

## MOUNTAIN GROVE, MO

MOUNTAIN GROVE MEML (1MO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 11MAR10 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 8,** 300-1¼ or std. w/min. climb of 221' per NM to 1700, or alternatively, with std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1600' prior to DER.

DEPARTURE PROCEDURE:

**Rwy 8,** climb heading 080° to 2100 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 8,** trees beginning 24' from DER, 139' right of centerline, up to 100' AGL/1639' MSL.

Trees beginning 37' from DER, 115' left of centerline, up to 100' AGL/1619' MSL.

Vehicles on road beginning 217' from DER, on centerline, up to 15' AGL/1514' MSL.

**Rwy 26,** trees beginning 4' from DER, 64' right of centerline, up to 100' AGL/1579' MSL.

Trees beginning 32' from DER, 81' left of centerline, up to 100' AGL/1579' MSL.

## MOUNTAIN VIEW, MO

MOUNTAIN VIEW (MNF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 17JUN21 (21168) (FAA)

TAKEOFF MINIMUMS:

**Rwy 28,** std. w/min. climb of 454' per NM to 1500 or 400-2¼ w/min. of 257' per NM to 2100 or 1000-3 for VCOA.

VCOA:

**Rwy 28,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Mountain View airport at or above 2000 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 10,** fence 4' from DER, 60' right of centerline, 2' AGL/1139' MSL.

Traverse way, terrain beginning 197' from DER, 498' right of centerline, up to 1186' MSL.

Pole 313' from DER, 568' left of centerline, 26' AGL/1158' MSL.

Pole, trees beginning 373' from DER, 314' right of centerline, up to 49' AGL/1211' MSL.

Trees, pole, traverse way, buildings beginning 596' from DER, 27' right of centerline, up to 92' AGL/1260' MSL.

Traverse way 958' from DER, 2' left of centerline, 1163' MSL.

Trees, spire beginning 1611' from DER, 40' left of centerline, up to 65' AGL/1208' MSL.

Tree 1902' from DER, 202' left of centerline, 66' AGL/1219' MSL.

Trees beginning 1989' from DER, 95' left of centerline, up to 72' AGL/1225' MSL.

Tree 2167' from DER, 320' left of centerline, 73' AGL/1233' MSL.

Trees beginning 2269' from DER, 47' left of centerline, up to 80' AGL/1240' MSL.

Trees beginning 3309' from DER, 176' right of centerline, up to 86' AGL/1283' MSL.

Tree 3640' from DER, 25' left of centerline, 83' AGL/1243' MSL.

**Rwy 28,** catenary 67' from DER, 285' right of centerline, 33' AGL/1204' MSL.

Fence 161' from DER, 496' left of centerline, 6' AGL/1206' MSL.

Tree, fence beginning 168' from DER, 334' left of centerline, up to 39' AGL/1244' MSL.

Pole, tree beginning 250' from DER, 256' right of centerline, up to 38' AGL/1211' MSL.

Pole 616' from DER, 197' right of centerline, 40' AGL/1215' MSL.

Tree, poles beginning 692' from DER, 196' left of centerline, up to 61' AGL/1272' MSL.

Pole beginning 718' from DER, 95' right of centerline, up to 32' AGL/1221' MSL.

Tree, poles beginning 1006' from DER, 2' left of centerline, up to 62' AGL/1276' MSL.

Pole 1052' from DER, 425' right of centerline, 46' AGL/1225' MSL.

Tree 1344' from DER, 346' right of centerline, 52' AGL/1234' MSL.

Tree 1376' from DER, 614' right of centerline, 64' AGL/1248' MSL.

**CON'T**

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## MOUNTAIN VIEW, MO (CON'T)

MOUNTAIN VIEW (MNF) (CON'T)

**Rwy 28 (CON'T),** trees beginning 1527' from DER, 120' right of centerline, up to 75' AGL/1257' MSL.
Tree, poles beginning 1740' from DER, 506' right of centerline, up to 62' AGL/1262' MSL.
Tree, pole beginning 1998' from DER, 63' right of centerline, up to 72' AGL/1268' MSL.
Trees, building beginning 2089' from DER, 49' left of centerline, up to 77' AGL/1320' MSL.
Tree, pole beginning 2400' from DER, 340' right of centerline, up to 74' AGL/1286' MSL.
Building 2814' from DER, 994' right of centerline, 40' AGL/1306' MSL.
Tree, poles beginning 2962' from DER, 157' right of centerline, up to 66' AGL/1309' MSL.
Pole 3221' from DER, 715' right of centerline, 40' AGL/1316' MSL.
Pole 3264' from DER, 1228' right of centerline, 47' AGL/1339' MSL.
Trees, pole beginning 3280' from DER, 36' right of centerline, up to 83' AGL/1368' MSL.
Trees beginning 4129' from DER, 53' left of centerline, up to 71' AGL/1323' MSL.
Trees beginning 4783' from DER, 55' left of centerline, up to 76' AGL/1324' MSL.
Tree 5372' from DER, 549' left of centerline, 73' AGL/1331' MSL.
Trees beginning 5532' from DER, 722' left of centerline, up to 70' AGL/1332' MSL.
Tree 1 NM from DER, 372' left of centerline, 84' AGL/1384' MSL.
Trees, pole beginning 1.1 NM from DER, 85' right of centerline, up to 77' AGL/1385' MSL.
Trees beginning 1.2 NM from DER, 8' right of centerline, up to 54' AGL/1389' MSL.
Towers beginning 1.6 NM from DER, 1718' left of centerline, up to 135' AGL/1456' MSL.
Tower 1.7 NM from DER, 2173' left of centerline, 225' AGL/1531' MSL.

## MUSCATINE, IA

MUSCATINE MUNI (MUT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 07DEC17 (17341) (FAA)

TAKEOFF MINIMUMS:
**Rwy 24,** 300-2, or std. w/min. climb of 220 feet per NM to 1000.
**Rwy 30,** 300-1⅝, or std. w/min. climb of 310 feet per NM to 1000.

DEPARTURE PROCEDURE:
**Rwy 6,** climb heading 060° to 2300 before proceeding on course.
**Rwy 12,** climb heading 123° to 2300 before proceeding on course.
**Rwy 24,** climb heading 240° to 2300 before proceeding on course.
**Rwy 30,** climb heading 306° to 2300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
**Rwy 6,** tree 635' from DER, 549' right of centerline, 560' MSL.
Tree 1422' from DER, 640' right of centerline, 582' MSL.
**Rwy 12,** ground 28' from DER, 211' right of centerline, 544' MSL.
Building, tree beginning 733' from DER, 586' right of centerline, up to 577' MSL.
Rod on OL tower, AWOS beginning 1122' from DER, 744' left of centerline, up to 580' MSL.
Pole 1122' from DER, 744' left of centerline, 34' AGL/578' MSL.
**Rwy 24,** tree 218' from DER, 531' left of centerline, 567' MSL.
Tree 1922' from DER, 421' right of centerline, 594' MSL.
Tree 1949' from DER, 271' right of centerline, 599' MSL.
Trees beginning 2566' from DER, 326' left of centerline, up to 616' MSL.
Tree 1.4 NM from DER, 1830' right of centerline, 768' MSL.
Trees beginning 1.4 NM from DER, 2028' left of centerline, up to 780' MSL.
Tree 1.5 NM from DER, 683' left of centerline, 789' MSL.
Trees beginning 1.5 NM from DER, 2257' right of centerline, up to 794' MSL.
Tree 1.5 NM from DER, 602' left of centerline, 795' MSL.
Tree 1.5 NM from DER, 2856' right of centerline, 802' MSL.
Trees beginning 1.6 NM from DER, 403' left of centerline, up to 807' MSL.
Tree 1.7 NM from DER, 1965' right of centerline, 810' MSL.
Tree 1.7 NM from DER, 3227' right of centerline, 815' MSL.
Tree 1.7 NM from DER, 1971' right of centerline, 815' MSL.
Tree 1.7 NM from DER, 355' left of centerline, 827' MSL.
**Rwy 30,** NAVAID, REIL beginning 20' from DER, 79' left of centerline, up to 1' AGL/537' MSL.
Fence beginning 28' from DER, 499' right of centerline, up to 543' MSL.
Tree, fence beginning 54' from DER, 500' left of centerline, up to 544' MSL.
Tree 383' from DER, 333' right of centerline, 546' MSL.
Trees beginning 420' from DER, 485' left of centerline, up to 577' MSL.
Tree, building, elevator beginning 658' from DER, 308' left of centerline, up to 591' MSL.
Pole beginning 1752' from DER, 826' right of centerline, up to 56' AGL/593' MSL.
Trees beginning 1.2 NM from DER, 2284' left of centerline, up to 757' MSL.
Tree 1.2 NM from DER, 2386' left of centerline, 779' MSL.
Trees beginning 1.2 NM from DER, 2062' left of centerline, up to 821' MSL.
Trees beginning 1.3 NM from DER, 1392' left of centerline, up to 837' MSL.
Trees beginning 1.3 NM from DER, 1044' left of centerline, up to 846' MSL.
Trees beginning 1.3 NM from DER, 1363' left of centerline, up to 847' MSL.
Trees beginning 1.3 NM from DER, 1136' left of centerline, up to 848' MSL.
Tree, building, ground beginning 1.3 NM from DER, 0' of centerline, up to 852' MSL.
Trees beginning 1.5 NM from DER, 41' right of centerline, up to 857' MSL.
Tree, ground, pole beginning 1.5 NM from DER, 51' left of centerline, up to 860' MSL.
Trees beginning 1.6 NM from DER, 117' left of centerline, up to 861' MSL.
Tree 2 NM from DER, 418' left of centerline, 852' MSL.

## NEOSHO, MO
NEOSHO HUGH ROBINSON (EOS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 25AUG11 (11237) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 1,** trees beginning 89' from DER, 431' left of centerline, up to 120' AGL/1339' MSL.
Trees and power poles beginning 584' from DER, 166' right of centerline, up to 120' AGL/1283' MSL.
**Rwy 19,** multiple trees and towers beginning 142' from DER, 465' right of centerline, up to 183' AGL/1403' MSL. Vehicles on road beginning 318' from DER, left and right of centerline, up to 17' AGL/1276' MSL.

## NEVADA, MO
NEVADA MUNI (NVD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 30NOV23 (23334) (FAA)
TAKEOFF MINIMUMS:
**Rwys 13, 31,** NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 2,** trees 94’ from DER, 266’ right of centerline, 40’ AGL/907’ MSL.
Trees beginning 151’ from DER, 84’ left of centerline, up to 40’ AGL/907’ MSL.
Trees beginning 202’ from DER, 130’ right of centerline, up to 40’ AGL/910’ MSL.
Trees beginning 423’ from DER, 4’ left of centerline, up to 40’ AGL/913’ MSL.
Trees beginning 580’ from DER, 210’ right of centerline, up to 40’ AGL/916’ MSL.
Trees beginning 694’ from DER, 355’ left of centerline, up to 40’ AGL/916’ MSL.
Tree 2061’ from DER, 107’ right of centerline, 937’ MSL.
Trees beginning 2092’ from DER, 96’ left of centerline, up to 945’ MSL.
**Rwy 20,** trees beginning 52’ from DER, 63’ left of centerline, up to 40’ AGL/939’ MSL.
Trees beginning 160’ from DER, 16’ right of centerline, up to 40’ AGL/943’ MSL.
Trees beginning 1139’ from DER, 254’ left of centerline, up to 40’ AGL/943’ MSL.
Trees beginning 1410’ from DER, 39’ left of centerline, up to 40’ AGL/953’ MSL.

22 FEB 2024 to 21 MAR 2024

## NEW MADRID, MO
COUNTY MEML (EIW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 21JUN18 (21112) (FAA)
DEPARTURE PROCEDURE:
**Rwy 18,** east departures (010° CW 170°) climb heading 180° to 1200, before proceeding on course.
**Rwy 36,** east departures (010° CW 170°) climb heading 360° to 1200, before proceeding on course.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** pole 280’ from DER, 262’ right of centerline, 29’ AGL/323’ MSL.
Building 329’ from DER, 292’ left of centerline, 13’ AGL/308’ MSL.
Tree, building, pole beginning 358’ from DER, 302’ left of centerline, up to 50’ AGL/345’ MSL.
Trees beginning 467’ from DER, 88’ left of centerline, up to 63’ AGL/358’ MSL.
Tree, pole beginning 491’ from DER, 225’ right of centerline, up to 63’ AGL/357’ MSL.
**Rwy 36,** tree 17’ from DER, 273’ left of centerline, 8’ AGL/302’ MSL.
Trees beginning 57’ from DER, 225’ right of centerline, up to 13’ AGL/306’ MSL.
Tree 2170’ from DER, 745’ left of centerline, 77’ AGL/368’ MSL.

## NEWTON, IA
NEWTON MUNI-EARL JOHNSON FLD (TNU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 21JUL16 (21336) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 14,** truck on road 3112' from DER, 1243' right of centerline, 15' AGL/964' MSL.
Tree 7519' from DER, multiple trees beginning 2996' from DER, 1200' left of centerline, up to 100' AGL/1059' MSL.
**Rwy 32,** trees 10' from DER, 437' left of centerline, 30' AGL/989' MSL.
Sign 126' from DER, 490' right of centerline, 8' AGL/967' MSL.
Truck on road 302' from DER, 513' right of centerline, 17' AGL/976' MSL.
Multiple trees beginning 531' from DER, 439' right of centerline, up to 32' AGL/991' MSL.

**OELWEIN, IA**
OELWEIN MUNI (OLZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 31MAY12 (12152) (FAA)
TAKEOFF MINIMUMS:
**Rwys 18,36,** NA - environmental.
DEPARTURE PROCEDURE:
**Rwy 13,** climb heading 133° to 2100 before turning left.
**Rwy 31,** climb heading 313° to 1500 before turning right.
TAKEOFF OBSTACLE NOTES:
**Rwy 13,** rising terrain beginning 42' from DER, left and right of centerline, up to 1079' MSL.
Trees 1972' from DER, 32' right of centerline, up to 100' AGL/1149' MSL.
**Rwy 31,** vehicle on road 357' from DER, left and right of centerline, up to 15' AGL/1094' MSL.
Poles beginning 1075' from DER, 299' right of centerline, up to 30' AGL/1109' MSL.

**OSAGE BEACH, MO**
GRAND GLAIZE-OSAGE BEACH (K15)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08FEB90 (90039) (FAA)
DEPARTURE PROCEDURE:
**Rwys 14, 32**, maintain runway heading to 1200 before turning on course.

**OSCEOLA, IA**
OSCEOLA MUNI (I75)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15DEC11 (11349) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** navaid and road beginning 40' from DER, 49' left of centerline, up to 12' AGL/1131' MSL.
Navaid, trees, and road beginning 12' from DER, 3' right of centerline, up to 13' AGL/1132' MSL.
**Rwy 36,** trees beginning 794' from DER, 225' left of centerline, up to 57' AGL/1166' MSL.
Trees and pole beginning 581' from DER, 415' right of centerline, up to 48' AGL/1157' MSL.

**OSKALOOSA, IA**
OSKALOOSA MUNI (OOA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 22OCT09 (09295) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 13,** tree 262' from DER, 477' left of centerline, 100' AGL/939' MSL.
**Rwy 31,** windsock 3' from DER, 357' right of centerline, 13' AGL/852' MSL.
NAV 39' from DER, 168' right of centerline, 5' AGL/839' MSL.
Tree 988' from DER, 525' right of centerline, 100' AGL/949' MSL.
Tree 2056' from DER, 609' right of centerline, 59' AGL/893' MSL.

**OTTUMWA, IA**
OTTUMWA RGNL (OTM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08SEP22 (22251) (FAA)
TAKEOFF MINIMUMS:
**Rwys 4, 22,** NA-Runway data.
TAKEOFF OBSTACLE NOTES:
**Rwy 13,** terrain 65’ from DER, 497’ left of centerline, 841’ MSL.
Tree 1408’ from DER, 629’ right of centerline, 891’ MSL.
Transmission lines, pole beginning 2025’ from DER, 959’ left of centerline, up to 58’ AGL/898’ MSL.
**Rwy 31,** trees beginning 678’ from DER, 467’ left of centerline, up to 885’ MSL.
Tree 1445’ from DER, 773’ right of centerline, 893’ MSL.

**PELLA, IA**
PELLA MUNI (PEA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 20NOV08 (08325) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 16,** trees, buildings and ground beginning 9' from DER, 144' left of centerline, up to 100' AGL/979' MSL.
Trees beginning 54' from DER, 193' right of centerline, up to 100' AGL/959' MSL.
**Rwy 34,** trees and poles beginning 838' from DER, 135' left of centerline, up to 100' AGL/979' MSL.
Trees and poles beginning 226' from DER, 296' right of centerline, up to 100' AGL/989' MSL.
Vehicle on road at DER, 499' right of centerline, 15' AGL/895' MSL.

**PERRY, IA**
PERRY MUNI (PRO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 25JAN24 (24025) (FAA)
TAKEOFF MINIMUMS:
**Rwys 4, 22,** NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 14,** pole, vehicle on road beginning 161' from DER, 363' left of centerline, up to 26' AGL/1022' MSL.
**Rwy 32,** pole 874' from DER, 619' right of centerline, 35' AGL/1038' MSL.

**PERRYVILLE, MO**
PERRYVILLE RGNL (PCD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 02MAR17 (17061) (FAA)
TAKEOFF MINIMUMS:
**Rwy 2,** 400-2¾ or std. w/min. climb of 215' per NM to 900 or alternatively, with std. takeoff minimums and normal 200'/NM climb gradient, takeoff must occur no later than 1800' prior to DER.
**Rwy 20,** 400-2½ or std. w/ min. climb of 300' per NM to 800.
DEPARTURE PROCEDURE:
**Rwy 2,** climb heading 017° to 1200 before proceeding on course.
**Rwy 20,** climb heading 197° to 900 before turning left.
TAKEOFF OBSTACLE NOTES:
**Rwy 2,** vehicles on road beginning 2' from DER, 478' right of centerline, up to 384' MSL.
Tree 324' from DER, 458' left of centerline, 379' MSL.
Tree 2 NM from DER, 2562' right of centerline, 713' MSL.
**Rwy 20,** vehicles on road beginning 483' from DER, left and right of centerline, up to 15' AGL/386' MSL.
Trees beginning 1.1 NM from DER, 354' right of centerline, up to 628' MSL.
Tree 1.3 NM from DER, 1880' left of centerline, 594' MSL.
Trees beginning 1.5 NM from DER, left and right of centerline, up to 680' MSL.
Trees beginning 1.6 NM from DER, left and right of centerline, up to 684' MSL.
Tree 1.7 NM from DER, 16' right of centerline, 714' MSL.
Tree 1.8 NM from DER, 2922' left of centerline, 670' MSL.

**POCAHONTAS, IA**
POCAHONTAS MUNI (POH)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 25AUG11 (11237) (FAA)
TAKEOFF MINIMUMS:
**Rwys 18, 36,** NA-Environmental.
TAKEOFF OBSTACLE NOTES:
**Rwy 12,** road beginning 499' from DER, 70' left of centerline, 15' AGL/1238' MSL.
Poles beginning 324' from DER, 404' left and right of centerline, up to 32' AGL/1252' MSL.
Terrain 27' from DER, 486' right of centerline, 1222' MSL.
**Rwy 30,** tower 1744' from DER, 765' right of centerline, 185' AGL/ 1375' MSL.
Wind sock 122' from DER, 431' right of centerline, 28' AGL/1254' MSL.
Tank 85' from DER, 331' right of centerline, 5' AGL/1231' MSL.

**POPLAR BLUFF, MO**
POPLAR BLUFF RGNL BUSINESS (POF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 30AUG07 (20310) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** multiple trees beginning 511' from DER, 515' right of centerline, up to 95' AGL/420' MSL.
Multiple trees beginning 878' from DER, 109' left of centerline, up to 103' AGL/428' MSL.
**Rwy 36,** multiple trees beginning 1163' from DER, 340' right of centerline, up to 66' AGL/391' MSL.
Multiple trees beginning 1191' from DER, 92' left of centerline, up to 79' AGL/404' MSL.

**POTOSI, MO**
WASHINGTON COUNTY (8WC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 10MAR11 (11069) (FAA)
TAKEOFF MINIMUMS:
**Rwy 20,** 500-2½ or std. w/ min. climb of 270' per NM to 1600.
DEPARTURE PROCEDURE:
**Rwy 2,** climb heading 019° to 1600 before turning left.
TAKEOFF OBSTACLE NOTES:
**Rwy 20,** trees beginning 103' from DER, 464' right of centerline, up to 60' AGL/1308' MSL.
Trees beginning 1222' from DER, 242' left of centerline, up to 60' AGL/1279' MSL.
Vehicles on roadway 942' from DER, right and left of centerline, up to 15' AGL/994' MSL.
Lookout tower 2.1 NM from DER,138' right of centerline, 132' AGL/1380' MSL.

## RED OAK, IA

RED OAK MUNI (RDK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 22SEP11 (11265) (FAA)

TAKEOFF MINIMUMS:

**Rwys 13, 31,** NA-Environmental.

**Rwy 5,** 600-2¾ or std. w/min. climb of 287' per NM to 1800.

**Rwy 23,** 300-1¾ or std. w/min. climb of 263' per NM to 1500.

**Rwy 35,** 300-2 or std. w/min. climb of 284' per NM to 1400.

DEPARTURE PROCEDURE:

**Rwy 5,** climb heading 054° to 1800 before proceeding eastbound.

TAKEOFF OBSTACLE NOTES:

**Rwy 5,** towers, trees, pole and windmill beginning 1744' from DER, 51' right of centerline, up to 370' AGL/1557' MSL.
Vehicles on road, trees and fence beginning 45' from DER, 150' left of centerline, up to 100' AGL/1144' MSL.

**Rwy 17,** train on railroad track and trees beginning 1095' from DER, on centerline, up to 100' AGL/1160' MSL.

**Rwy 23,** terrain, train on railroad track, trees and poles beginning 61' from DER, 30' right of centerline, up to 100' AGL/1319' MSL.
Train on railroad track and trees beginning 1111' from DER, 33' left of centerline, up to 67' AGL/1168' MSL.

**Rwy 35,** vehicles on road beginning 700' from DER, on centerline, 15' AGL/1070' MSL.
Hangers, trees, power poles, buildings and silos beginning 435' from DER, 323' right of centerline, up to 100' AGL/1269' MSL.
Terrain, power pole and trees beginning 828' from DER, 564' left of centerline, up to 100' AGL/1319' MSL.

## ROCK RAPIDS, IA

ROCK RAPIDS MUNI (RRQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 02JUN88 (88154) (FAA)

TAKEOFF MINIMUMS:

**Rwy 16,** 300-1.

## ROLLA-VICHY, MO

ROLLA NTL (VIH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 23SEP10 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** multiple trees and vehicle on road beginning 465' from DER, 170' left of centerline, up to 68' AGL/1208' MSL.
Multiple trees, sign, and vehicle on road beginning 297' from DER, 138' right of centerline, up to 68' AGL/1208' MSL.

**Rwy 22,** multiple trees, terrain, and vehicle on road beginning 161' from DER, 168' left of centerline, up to 107' AGL/1187' MSL.
Power pole, terrain, and vehicle on road beginning 126' from DER, 217' right of centerline, up to 36' AGL/1176' MSL.
Vehicle on road 613' from DER, on centerline, 15' AGL/1157' MSL.

**Rwy 31,** multiple trees, terrain, and vehicle on road beginning 230' from DER, 91' left of centerline, up to 30' AGL/1170' MSL.
Multiple trees beginning 779' from DER, 435' right of centerline, up to 58' AGL/1178' MSL.
Vehicle on road 611' from DER, on centerline, 15' AGL/1156' MSL.

## SAC CITY, IA

SAC CITY MUNI (SKI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** trees beginning 675' from DER, 673' right of centerline, up to 50' AGL/1279' MSL.

**Rwy 32,** vehicles on road beginning 349' from DER, 584' right of centerline, up to 15' AGL/1264' MSL.

**Rwy 36,** vehicles on road beginning 562' from DER, left and right of centerline, up to 15' AGL/1264' MSL.

## ST CHARLES, MO

ST CHARLES COUNTY RGNL/SMARTT FLD (SET)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 27OCT05 (23166) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** std. w/min. climb of 262' per NM to 1300, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 36,** for climb in visual conditions: cross St Charles County Rgnl/Smartt Fld airport at or above 1300 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 36,** tree 2.3 NM from DER, 3932' right of centerline, 100' AGL/891' MSL.

## ST. JOSEPH, MO

ROSECRANS MEML (STJ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 01FEB18 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 31,** 400-2¼ or std. w/ min. climb of 340' per NM to 1300.

DEPARTURE PROCEDURE:

**Rwy 13,** climb heading 132° to 1600 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** electrical system 3' from DER, 47' left of centerline, 2' AGL/813' MSL.
Trees beginning 66' from DER, 456' right of centerline, up to 817' MSL.
Tree 2056' from DER, 231' left of centerline, 863' MSL.
Tower 2247' from DER, 1075' left of centerline, 61' AGL/870' MSL.
Tree 3088' from DER, 1028' left of centerline, 889' MSL.
Tree 3495' from DER, 1434' right of centerline, 914' MSL.
**Rwy 17,** NAVAID 56' from DER, 115' right of centerline, 7' AGL/817' MSL.
NAVAID 57' from DER, 115' left of centerline, 5' AGL/816' MSL.
Trees beginning 870' from DER, 627' right of centerline, up to 897' MSL.
Tree 880' from DER, 657' left of centerline, 852' MSL.
Trees beginning 2689' from DER, 760' left of centerline, up to 915' MSL.
Tree 2769' from DER, 1216' right of centerline, 900' MSL.
Trees beginning 2773' from DER, 1019' right of centerline, up to 920' MSL.
**Rwy 31,** electrical system 11' from DER, 1' right of centerline, 2' AGL/813' MSL.
Tree 401' from DER, 491' right of centerline, 840' MSL.
Trees beginning 916' from DER, 301' right of centerline, up to 848' MSL.
Tree 2542' from DER, 1173' left of centerline, 899' MSL.
Trees beginning 4061' from DER, 1132' left of centerline, up to 927' MSL.
Trees beginning 5143' from DER, 1689' left of centerline, up to 954' MSL.
Trees and terrain beginning 5260' from DER, 675' left of centerline, up to 1037' MSL.
Trees and terrain beginning 1 NM from DER, 499' left of centerline, up to 1047' MSL.
Tree 1 NM from DER, 1090' left of centerline, 1057' MSL.
Trees and terrain beginning 1 NM from DER, 464' left of centerline, up to 1072' MSL.
Trees, terrain, windmill and pole beginning 1.1 NM from DER, 9' left of centerline, up to 1095' MSL.
Trees beginning 1.1 NM from DER, 23' right of centerline, up to 1029' MSL.
Trees beginning 1.2 NM from DER, 57' right of centerline, up to 1044' MSL.
**Rwy 35,** NAVAIDs beginning 40' from DER, 150' left of centerline, up to 9' AGL/832' MSL.
NAVAIDs beginning 41' from DER, 150' right of centerline, up to 10' AGL/833' MSL.
Trees beginning 1742' from DER, 613' right of centerline, up to 876' MSL.

## ST. LOUIS, MO

CREVE COEUR (1H0)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 07SEP23 (23250) (FAA)

TAKEOFF MINIMUMS:

**Rwys 7, 25,** NA-Environmental.
**Rwy 16,** 300-2¼ or std w/min climb of 206' per NM to 800, or alternatively, with std takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1300' prior to DER.
**Rwy 34,** 300-2¼ or std w/min climb of 355' per NM to 900.

DEPARTURE PROCEDURE:

**Rwy 34,** climb heading 338° to 1100 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 16,** vehicle on road, pole and trees beginning 200' from DER, 219' right of centerline, up to 100' AGL/546' MSL.
Trees beginning 100' from DER, 356' left of centerline, up to 100' AGL/719' MSL.
**Rwy 34,** multiple trees beginning 1847' from DER, 418' right of centerline up to 100' AGL/749' MSL.
Levee and trees beginning 744' from DER, 275' left of centerline, up to 90' AGL/612' MSL.

## ST. LOUIS, MO (CON"T)

### ST LOUIS LAMBERT INTL (STL)

TAKEOFF MINIMUMS AND (OBSTACLE)DEPARTURE PROCEDURES

AMDT 3 14SEP17 (17257)

TAKEOFF MINIMUMS:

**Rwy 11,** 200-1 or std. w/min. climb of 370' per NM to 900.
**Rwy 30L,** 200-1 or std. w/min. climb of 245' per NM to 800.
**Rwy 30R,** 200-1⅜ or std. w/min. climb of 230' per NM to 800.

TAKEOFF OBSTACLE NOTES:

**Rwy 6,** railroad 577' from DER, 621' left of centerline, 557' MSL.
General utility and pole beginning 1037' from DER, 632' right of centerline, up to 22' AGL/573' MSL.
Building 2478' from DER, 1008' right of centerline, 60' AGL/598' MSL.
**Rwy 11,** building 2347' from DER, 545' left of centerline, 67' AGL/616' MSL.
Tree 2362' from DER, 690' right of centerline, 619' MSL.
Tree 2680' from DER, 690' right of centerline, 632' MSL.
Tree 2756' from DER, 781' right of centerline, 641' MSL.
Tree and poles beginning 3013' from DER, 206' left of centerline, up to 68' AGL/650' MSL.
Tree 3066' from DER, 704' right of centerline, 658' MSL.
Sign, building, and tree beginning 4349' from DER, 488' right of centerline, up to 65' AGL/680' MSL.
Control tower 5016' from DER, 1524' left of centerline, 219' AGL/774' MSL.
Building 5293' from DER, 685' right of centerline, 98' AGL/692' MSL.
Building 5517' from DER, 527' right of centerline, 114' AGL/694' MSL.
**Rwy 12L,** tree 1330' from DER, 666' right of centerline, 654' MSL.
**Rwy 12R,** traffic signal 1413' from DER, 702' right of centerline, 636' MSL.
Tree 1930' from DER, 372' left of centerline, 636' MSL.
Sign 2801' from DER, 870' right of centerline, 96' AGL/672' MSL.
**Rwy 30L,** vehicles on road, NAVAID, and antenna on building beginning 283' from DER, on centerline, up to 571' MSL.
Vehicles on road and traffic signal beginning 836' from DER, 217' right of centerline, up to 580' MSL.
Vehicles on road 906' from DER, 600' left of centerline, 569' MSL.
Terrain beginning 1375' from DER, 672' right of centerline, up to 592' MSL.
Pole 1685' from DER, 640' left of centerline, 39' AGL/585' MSL.
Tree and pole beginning 2466' from DER, 604' right of centerline, up to 648' MSL.
Tree 3231' from DER, 791' right of centerline, 654' MSL.
Tree 3507' from DER, 818' left of centerline, 663' MSL.
Tree 3666' from DER, 788' right of centerline, 665' MSL.
Tree and pole beginning 4487' from DER, 614' right of centerline, up to 684' MSL.
Tree 5174' from DER, 404' left of centerline, 697' MSL.
**Rwy 30R,** electrical system 1376' from DER, 710' right of centerline, 34' AGL/567' MSL.
Tower 1896' from DER, 899' left of centerline, 54' AGL/587' MSL.
Buildings beginning 1963' from DER, 561' right of centerline, up to 81' AGL/611' MSL.
Tree 4051' from DER, 930' right of centerline, 631' MSL.
Trees beginning 4188' from DER, 1204' right of centerline, up to 657' MSL.
Tree 4694' from DER, 520' right of centerline, 658' MSL.
Tree 4733' from DER, 1418' right of centerline, 668' MSL.
Tree 5095' from DER, 389' right of centerline, 670' MSL.
Tree 5755' from DER, 1093' right of centerline, 687' MSL.
Tree 1 NM from DER, 345' right of centerline, 693' MSL.
Tree 1.1 NM from DER, 1120' right of centerline, 714' MSL.

### SPIRIT OF ST LOUIS (SUS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 27JUN13 (13178) (FAA)

TAKEOFF MINIMUMS:

**Rwy 8R,** 200-1¼ or std. w/ min. climb of 238' per NM to 700.
**Rwy 26L,** 300-2 or std. w/ min. climb of 231' per NM to 900.

TAKEOFF OBSTACLE NOTES:

**Rwy 8L,** fence 46' from DER, 338' right of centerline, 8' AGL/465' MSL.
Building 174' from DER, 498' right of centerline, 38' AGL/495' MSL.
Tree 383' from DER, 426' right of centerline, 31' AGL/488' MSL.
OL on pole 1215' from DER, 96' right of centerline, 43' AGL/496' MSL.
Multiple poles beginning 1202' from DER, 231' right of centerline, up to 48' AGL/498' MSL.
Trees beginning 1245' from DER, 52' left of centerline, up to 80' AGL/533' MSL.
Trees beginning 1229' from DER, 95' right of centerline, up to 60' AGL/516' MSL.
**Rwy 8R,** antenna 263' from DER, 557' left of centerline, 40' AGL/487' MSL.
Railroad car 752' from DER, 19' left of centerline, 23' AGL/482' MSL.
Antenna on building 142' from DER, 241' left of centerline, 8' AGL/470' MSL.
Trees 5357' from DER, 1793' right of centerline, up to 100' AGL/626' MSL.
**Rwy 26L,** tree 2240' from DER, 508' right of centerline, 58' AGL/521' MSL.
Tree 1.7 NM from DER, 2670' left of centerline, 100' AGL/759' MSL.
**Rwy 26R,** tree 33' from DER, 430' right of centerline, up to 9' AGL/464' MSL.
Multiple poles beginning 1269' from DER, left and right of centerline, up to 68' AGL/518' MSL.
Trees beginning 1999' from DER, right and left of centerline, up to 154' AGL/601' MSL.

## SALEM, MO
SALEM MEML (K33)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20OCT11 (21112) (FAA)
TAKEOFF MINIMUMS:
**Rwy 17,** 400-2¼ or std. w/min. climb of 300' per NM to 1500.
TAKEOFF OBSTACLE NOTES:
**Rwy 17,** trees beginning 675' from DER, 675' left of centerline, up to 100' AGL/1349' MSL.
Tree 911' from DER, 290' right of centerline, 34' AGL/1275' MSL.
Power line beginning 942' from DER, 745' left of centerline, up to 120' AGL/1369' MSL.
**Rwy 35,** tree 770' from DER, 120' right of centerline, 28' AGL/1249' MSL.

## SEDALIA, MO
SEDALIA RGNL (DMO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22AUG13 (13234) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 5,** trees beginning 238' from DER, 121' right of centerline, up to 71' AGL/950' MSL.
Tree 2388' from DER, 355' left of centerline, 77' AGL/946' MSL.
Buildings beginning 70' from DER, 447' left of centerline, up to 17' AGL/906' MSL.
**Rwy 18,** trees beginning 88' from DER, left and right of centerline, up to 61' AGL/970' MSL.
**Rwy 23**, trees beginning 6' from DER, left and right of centerline, up to 78' AGL/991' MSL.
Vehicle on road, 23' from DER 504' left of centerline, 8' AGL/927' MSL.
Communication tower 4771' from DER, 582' right of centerline, 163' AGL/1032' MSL.
**Rwy 36,** trees beginning 583' from DER, 598' right of centerline, up to 68' AGL/ 927' MSL.
Terrain beginning 151' from DER, 307' left of centerline, up to 889' MSL.

## SHELDON, IA
SHELDON RGNL (SHL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22JUN17 (17173) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 15,** light pole 9' from DER, 17' left of centerline, 1' AGL/1413' MSL.
Light pole 10' from DER, 27' right of centerline, 1' AGL/1413' MSL.
Trees beginning 1345' from DER, 422' left of centerline, up to 1473' MSL.
Trees beginning 2977' from DER, 357' left of centerline, up to 1497' MSL.
**Rwy 33,** light pole beginning 9' from DER, 16' left of centerline, up to 1' AGL/1421' MSL.
Light pole beginning 9' from DER, 18' right of centerline, up to 1' AGL/1420' MSL.
Building, light pole beginning 14' from DER, 74' left of centerline, up to 23' AGL/1441' MSL.
Bush [tmp] 14' from DER, 178' right of centerline, 1423' MSL.
Tree, beacon beginning 31' from DER, 459' left of centerline, up to 1479' MSL.
Antenna on airport beacon, tree, road (n), railroad beginning 55' from DER, 43' left of centerline, up to 1481' MSL.
Bush [tmp] 136' from DER, 196' right of centerline, 1425' MSL.
Bush [tmp] 195' from DER, 350' right of centerline, 1427' MSL.
Road (n) beginning 435' from DER, 166' right of centerline, up to 1436' MSL.
Tree 959' from DER, 366' right of centerline, 1447' MSL.
Tree 1026' from DER, 520' right of centerline, 1464' MSL.
Trees beginning 1027' from DER, 456' right of centerline, up to 1467' MSL.

## SHENANDOAH, IA
SHENANDOAH MUNI (SDA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 03JAN19 (19003) (FAA)
TAKEOFF MINIMUMS:
**Rwy 4,** 500-3 or std. w/min. climb of 260' per NM to 1700.
**Rwy 12,** 500-2¾ or std. w/min. climb of 285' per NM to 1600.
**Rwy 30,** 300-1½ or std. w/min. climb of 255' per NM to 1300.
TAKEOFF OBSTACLE NOTES:
**Rwy 4,** building 70' from DER, 398' right of centerline, 10' AGL/984' MSL.
Tree 73' from DER, 192' left of centerline, 978' MSL.
Tree 175' from DER, 391' left of centerline, 979' MSL.
Tree 281' from DER, 403' left of centerline, 981' MSL.
Pole 412' from DER, 330' right of centerline, 1007' MSL.
Tree, pole beginning 551' from DER, 263' left of centerline, up to 992' MSL.
Pole 620' from DER, 470' right of centerline, 1010' MSL.
Tree 822' from DER, 646' right of centerline, 1022' MSL.
Tree 1612' from DER, 508' right of centerline, 1034' MSL.
Vegetation beginning 4706' from DER, 1686' right of centerline, up to 100' AGL/1104' MSL.
Tower 2.5 NM from DER, 3152' right of centerline, 491' AGL/1463' MSL.
**CON'T**

## SHENANDOAH, IA (CON'T)

SHENANDOAH MUNI (SDA) (CON'T)

**Rwy 12,** vegetation 27' from DER, 233' left of centerline, 974' MSL.
Vegetation 71' from DER, 336' left of centerline, 976' MSL.
Pole, tree beginning 74' from DER, 124' left of centerline, up to 28' AGL/998' MSL.
Tree 75' from DER, 91' right of centerline, 984' MSL.
Tree 96' from DER, 522' right of centerline, 986' MSL.
Trees beginning 106' from DER, 390' right of centerline, up to 18' AGL/990' MSL.
Other, tree beginning 3998' from DER, 62' right of centerline, up to 1100' MSL.
Other 5011' from DER, 68' left of centerline, 1115' MSL.
Other 5490' from DER, 691' right of centerline, 1110' MSL.
Tower 2.1 NM from DER, 2334' left of centerline, 311' AGL/1430' MSL.
**Rwy 22,** vegetation 101' from DER, 170' right of centerline, 972' MSL.
Fence 200' from DER, 392' left of centerline, 7' AGL/967' MSL.
Catenary, pole beginning 965' from DER, 253' left of centerline, up to 999' MSL.
Tree 2023' from DER, 507' left of centerline, 1030' MSL.
**Rwy 30,** vegetation 73' from DER, 305' right of centerline, 959' MSL.
Trees beginning 117' from DER, 318' right of centerline, up to 31' AGL/981' MSL.
Trees beginning 305' from DER, 217' left of centerline, up to 970' MSL.
Tree 600' from DER, 118' left of centerline, 972' MSL.
Tree 790' from DER, 192' left of centerline, 977' MSL.
Tree 876' from DER, 136' right of centerline, 983' MSL.
Trees beginning 1007' from DER, 273' right of centerline, up to 984' MSL.
Tree 1398' from DER, 332' left of centerline, 996' MSL.
Tree 1533' from DER, 432' left of centerline, 1015' MSL.
Trees beginning 1557' from DER, 432' left of centerline, up to 1044' MSL.
Tree 2076' from DER, 693' left of centerline, 1049' MSL.
Tree 5404' from DER, 1808' right of centerline, 1118' MSL.
Trees beginning 5502' from DER, 1411' right of centerline, up to 1124' MSL.
Trees beginning 5767' from DER, 1299' right of centerline, up to 1125' MSL.
Trees beginning 5825' from DER, 1508' right of centerline, up to 1129' MSL.
Trees beginning 5887' from DER, 1320' right of centerline, up to 1130' MSL.
Tree, transmission line beginning 6054' from DER, 1374' right of centerline, up to 1144' MSL.
Tree, transmission line beginning 1.1 NM from DER, 1993' right of centerline, up to 1146' MSL.

## SIBLEY, IA

SIBLEY MUNI (ISB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05MAY11 (11125) (FAA)

TAKEOFF MINIMUMS:
**Rwy 35,** 300-1½ or std. w/min. climb of 275' per NM to 1900.

TAKEOFF OBSTACLE NOTES:
**Rwy 17,** numerous trees beginning 1798' from DER, on runway centerline, up to 100' AGL/1629' MSL.
Vehicles on road 71' from DER, 499' right of centerline, 10' AGL/1539' MSL.
**Rwy 35,** vehicles on road 189' from DER, 530' left of centerline, 15' AGL/1564' MSL.
Train 401' from DER, 564' left of centerline, 23' AGL/1572' MSL.
Numerous trees beginning 550' from DER, 564' left of centerline,100' AGL/1649' MSL.

## SIKESTON, MO

SIKESTON MEML MUNI (SIK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 08NOV18 (21112) (FAA)

TAKEOFF OBSTACLE NOTES:
**Rwy 3,** tree 197' from DER, 462' right of centerline, 335' MSL.
Sign 228' from DER, 490' left of centerline, 13' AGL/323' MSL.
Tree 934' from DER, 502' right of centerline, 30' AGL/340' MSL.
Tree 952' from DER, 670' right of centerline, 373' MSL.
Trees beginning 1112' from DER, 355' right of centerline, up to 389' MSL.
Tree 2830' from DER, 765' left of centerline, 86' AGL/391' MSL.
Tree 3279' from DER, 635' right of centerline, 399' MSL.
**Rwy 21,** sign 160' from DER, 442' right of centerline, 11' AGL/320' MSL.
Pole, tree beginning 178' from DER, 374' right of centerline, up to 30' AGL/340' MSL.
Pole 609' from DER, 539' left of centerline, 24' AGL/335' MSL.
Building 845' from DER, 501' left of centerline, 29' AGL/341' MSL.
Tree 1088' from DER, 628' right of centerline, 34' AGL/341' MSL.
Pole 1166' from DER, 797' left of centerline, 37' AGL/348' MSL.
Trees beginning 1242' from DER, 422' right of centerline, up to 363' MSL.
Tree 1612' from DER, 579' right of centerline, 70' AGL/377' MSL.
Trees beginning 2304' from DER, 649' right of centerline, up to 69' AGL/380' MSL.
Tree 3181' from DER, 357' right of centerline, 86' AGL/407' MSL.

22 FEB 2024 to 21 MAR 2024
22 FEB 2024 to 21 MAR 2024

## SIOUX CITY, IA

SIOUX GATEWAY/BRIG GEN BUD DAY FLD (SUX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 31DEC20 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** std. w/min. climb of 260' per NM to 4300 or 1600-3 for VCOA.

DEPARTURE PROCEDURE:

**Rwy 31,** climb heading 313° to 2000 before turning east.

VCOA:

**Rwy 36,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Sioux Gateway/ Brig Gen Bud Day Fld at or above 2500 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** trees 2242' from DER, 920' right of centerline, 1162' MSL.
Tree 4517' from DER, 1664' left of centerline, 100' AGL/1209' MSL.
**Rwy 18,** sign 29' from DER, 212' left of centerline, 6' AGL/1099' MSL.
**Rwy 31,** trees 3018' from DER, 122' left of centerline, 1171' MSL.
Trees 3100' from DER, 431' right of centerline, 1173' MSL.
Tree 3205' from DER, 669' right of centerline, 1174' MSL.
Trees 4622' from DER, 1700' left of centerline, 100' AGL/1209' MSL.
**Rwy 36,** trees beginning 1504' from DER, 495' right of centerline, up to 1172' MSL.

## SPENCER, IA

SPENCER MUNI (SPW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03JUN10 (10154) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 12,** ground 113' from DER, 308' right of centerline, 0' AGL/1341' MSL.
Vehicle on road 531' from DER, 21' right of centerline, 15' AGL/1347' MSL.
Trees and antenna on building beginning 2074' from DER, 466' right of centerline, up to 78' AGL/1449' MSL.
Trees beginning 3985' from DER, 35' right of centerline, up to 120' AGL/1449' MSL.
**Rwy 18,** vehicle on road 562' from DER, 21' right of centerline, 15' AGL/1353' MSL.
Trees beginning 600' from DER, 487' right of centerline, up to 120' AGL/1459' MSL.

## SPRINGFIELD, MO

DOWNTOWN (3DW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10DEC15 (15344) (FAA)

TAKEOFF MINIMUMS:

**Rwy 29,** 500-2 or std. w/min. climb of 326' per NM to 2000.

DEPARTURE PROCEDURE:

**Rwy 11,** climb heading 108° to 4200 before turning left.
**Rwy 29,** climb heading 288° to 2000 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 11,** trees and buildings beginning 129' from DER, left and right of centerline, up to 80' AGL/1480' MSL.
**Rwy 29,** trees and buildings beginning 236' from DER, left and right of centerline, up to 80' AGL/1430' MSL.
Tower 1.6 NM from DER, 2322' right of centerline, 498' AGL/1777' MSL.

SPRINGFIELD-BRANSON NTL (SGF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 08MAR90 (21168) (FAA)

TAKEOFF MINIMUMS:

**Rwy 32,** 300-1 or std. w/min. climb of 250' per NM to 1400.

## STEELE, MO

STEELE MUNI (M12)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 30APR15 (15120) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** multiple poles beginning 158' from DER, left and right of centerline, up to 34' AGL/292' MSL.
Multiple trees beginning 1837' from DER, 507' left of centerline, up to 100' AGL/359' MSL.
Tree 1842' from DER, 903' right of centerline, 100' AGL/359' MSL.
**Rwy 36,** tree 608' from DER, 525' right of centerline, 19' AGL/274' MSL.
Vehicles on road beginning 682' from DER, 239' right of centerline, up to 21' AGL/276' MSL.
Multiple trees beginning 3738' from DER, 1382' left of centerline, up to 100' AGL/364' MSL.

## STOCKTON, MO

STOCKTON MUNI (MO3)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 07MAR13 (13066) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** tree 1070' from DER, 339' right of centerline, 75' AGL/1114' MSL.
Tree 2400' from DER, 227' right of centerline, 75' AGL/1114' MSL.
**Rwy 19,** tree 645' from DER, 8' right of centerline, 75' AGL/1105' MSL.
Tree 1911' from DER, 120' left of centerline, 75' AGL/1115' MSL.

## STORM LAKE, IA

STORM LAKE MUNI (SLB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

**Rwys 6, 24,** NA - Turf.

TAKEOFF OBSTACLE NOTES:

**Rwy 13,** lighting 10' from DER, 14' right of centerline, 3' AGL/1469' MSL.
Tree 58' from DER, 250' left of centerline, 1482' MSL.
Trees beginning 1865' from DER, 405' left of centerline, up to 1537' MSL.
**Rwy 17,** lighting, NAVAID beginning 9' from DER, 18' left of centerline, up to 3' AGL/1482' MSL.
Lighting 10' from DER, 36' right of centerline, 3' AGL/1482' MSL.
Vegetation 103' from DER, 129' left of centerline, 1483' MSL.
Fence 111' from DER, 449' left of centerline, 3' AGL/1489' MSL.
Fences beginning 120' from DER, 450' left of centerline, up to 5' AGL/1491' MSL.
**Rwy 31,** vehicles on road beginning 34' from DER, 320' right of centerline, up to 1497' MSL.
Terrain 94' from DER, 375' left of centerline, 1482' MSL.
Terrain 191' from DER, 492' left of centerline, 1483' MSL.
Vehicles on road 426' from DER, 50' right of centerline, 1498' MSL.
Tree, building beginning 759' from DER, 598' left of centerline, up to 1529' MSL.
Tree 855' from DER, 547' left of centerline, 1545' MSL.
Tree, building beginning 863' from DER, 618' left of centerline, up to 1546' MSL.
Tree 950' from DER, 530' left of centerline, 1554' MSL.
Tree, vehicles on road beginning 962' from DER, 489' left of centerline, up to 1555' MSL.
Tree 1031' from DER, 700' left of centerline, 1558' MSL.
Tree 1177' from DER, 739' left of centerline, 1561' MSL.
**Rwy 35,** NAVAID 10' from DER, 55' right of centerline, 2' AGL/1481' MSL.
Vegetation 92' from DER, 175' left of centerline, 1482' MSL.
Tree 252' from DER, 80' right of centerline, 1488' MSL.
Tree 1410' from DER, 698' right of centerline, 1543' MSL.

## SULLIVAN, MO

SULLIVAN RGNL (UUV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10AUG23 (23222) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 6,** trees, tower, poles beginning 176' from DER, 12' left of centerline, up to 966' MSL.
Pole 462' from DER, 471' right of centerline, 31' AGL/941' MSL.
Tree 519' from DER, 447' right of centerline, 960' MSL.
Trees beginning 526' from DER, 246' right of centerline, up to 961' MSL.
Trees beginning 594' from DER, 8' right of centerline, up to 965' MSL.
**Rwy 24,** pole 485' from DER, 408' right of centerline, 21' AGL/961' MSL.
Trees, buildings beginning 502' from DER, 357' left of centerline, up to 975' MSL.
Pole, tree beginning 525' from DER, 440' right of centerline, up to 30' AGL/971' MSL.
Tree 792' from DER, 419' right of centerline, 997' MSL.
Trees beginning 858' from DER, 449' right of centerline, up to 1004' MSL.
Smokestack, tree, building beginning 1001' from DER, 269' left of centerline, up to 66' AGL/1009' MSL.
Trees beginning 2027' from DER, 313' right of centerline, up to 1008' MSL.
Tree, building beginning 2469' from DER, 78' left of centerline, up to 1016' MSL.

## TARKIO, MO

### GOULD PETERSON MUNI (K57)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 07OCT21 (21280) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 300-1 w/min. climb of 204' per NM to 1600 or std. w/min. climb of 407' per NM to 1200 or 1100-3 for VCOA.

VCOA:

**Rwy 36,** obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions, to cross Gould Peterson Muni airport at or above 1800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** vehicle on road beginning 17' from DER, 340' right of centerline, up to 930' MSL.
Vehicle on road beginning 80' from DER, 339' left of centerline, up to 924' MSL.
Trees beginning 964' from DER, 672' left of centerline, up to 24' AGL/951' MSL.
Transmission line, pole, tree beginning 1200' from DER, 289' right of centerline, up to 67' AGL/982' MSL.
Tree 1582' from DER, 870' left of centerline, 44' AGL/956' MSL.
Trees beginning 1584' from DER, 751' left of centerline, up to 63' AGL/978' MSL.
Trees beginning 1616' from DER, 5' left of centerline, up to 115' AGL/1030' MSL.
Transmission line, tree beginning 2121' from DER, 163' right of centerline, up to 72' AGL/985' MSL.
Tree 2176' from DER, 160' right of centerline, 84' AGL/1007' MSL.
Trees beginning 2177' from DER, 161' right of centerline, up to 101' AGL/1013' MSL.
Tree, transmission line beginning 2275' from DER, on centerline, up to 97' AGL/1018' MSL.
**Rwy 36,** vehicles on road beginning 4' from DER, 365' left of centerline, up to 930' MSL.
Building, vehicle on road beginning 43' from DER, 361' right of centerline, up to 26' AGL/939' MSL.
Vehicle on road beginning 212' from DER, 125' left of centerline, up to 931' MSL.
Wind indicator, pole, building, vehicle on road, tree beginning 429' from DER, 29' right of centerline, up to 41' AGL/957' MSL.
Vehicle on road beginning 541' from DER, 101' left of centerline, up to 932' MSL.
Pole, vehicle on road, trees beginning 545' from DER, on centerline, up to 31' AGL/947' MSL.
Tree, terrain, pole, transmission line beginning 693' from DER, 7' right of centerline, up to 1026' MSL.
Pole, transmission line beginning 747' from DER, 185' left of centerline, up to 35' AGL/950' MSL.
Tree 1255' from DER, 449' left of centerline, 47' AGL/961' MSL.
Tree 1357' from DER, 425' left of centerline, 52' AGL/970' MSL.
Tree 1469' from DER, 431' left of centerline, 55' AGL/975' MSL.
Trees beginning 1535' from DER, 64' left of centerline, up to 64' AGL/985' MSL.
Trees beginning 1850' from DER, 157' left of centerline, up to 67' AGL/990' MSL.
Tree 1863' from DER, 182' left of centerline, 62' AGL/991' MSL.
Trees beginning 1864' from DER, 22' left of centerline, up to 58' AGL/992' MSL.
Trees beginning 1871' from DER, 266' left of centerline, up to 66' AGL/993' MSL.
Trees beginning 1880' from DER, 40' left of centerline, up to 66' AGL/1001' MSL.
Trees beginning 1890' from DER, 8' left of centerline, up to 74' AGL/1005' MSL.
Tree, terrain beginning 1891' from DER, 21' right of centerline, up to 1042' MSL.
Trees beginning 1998' from DER, 31' left of centerline, up to 69' AGL/1010' MSL.
Trees beginning 2021' from DER, 7' left of centerline, up to 77' AGL/1018' MSL.
Tree, terrain beginning 2037' from DER, on centerline, up to 1046' MSL.
Trees beginning 2067' from DER, 19' left of centerline, up to 77' AGL/1019' MSL.
Trees beginning 2086' from DER, 33' left of centerline, up to 78' AGL/1021' MSL.
Tree, terrain beginning 2124' from DER, on centerline, up to 1022' MSL.
Trees beginning 2782' from DER, 2' left of centerline, up to 61' AGL/1023' MSL.
Trees beginning 3218' from DER, 33' right of centerline, up to 55' AGL/1047' MSL.
Tree, terrain beginning 3226' from DER, 56' right of centerline, up to 1065' MSL.
Tree 3231' from DER, 1323' right of centerline, 57' AGL/1077' MSL.
Tower 1.1 NM from DER, on centerline, up to 325' AGL/1391' MSL.

## TIPTON, IA

### MATHEWS MEML (8C4)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 08APR10 (21112) (FAA)

DEPARTURE PROCEDURE:

**Rwy 29,** climb heading 288° to 1900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 11,** tree 1537' from DER, 668' left of centerline, 100' AGL/949' MSL.
Tree 1801' from DER, 803' right of centerline, 100' AGL/929' MSL.
Tree 3796' from DER, 227' left of centerline, 100' AGL/969' MSL.
**Rwy 29,** tree 404' from DER, 576' right of centerline, 100' AGL/929' MSL.
Tree 4068' from DER, 964' left of centerline, 100' AGL/959' MSL.

## TRENTON, MO

TRENTON MUNI (TRX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 31JAN19 (19031) (FAA)

TAKEOFF MINIMUMS:

**Rwys 18, 36**, 500-2 or std. w/min. climb of 350' per NM to 1400.

DEPARTURE PROCEDURE:

**Rwy 18,** climb heading 182° to 1400 before proceeding on course.

**Rwy 36,** climb heading 002° to 1400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** tree 27' from DER, 482' left of centerline, 9' AGL/764' MSL.
Fence 114' from DER, 209' left of centerline, 21' AGL/776' MSL.
Pole sign beginning 114' from DER, 213' left of centerline, up to 27' AGL/782' MSL.
Ground, tree, pole, building, fence, sign, bridge, beginning 263' from DER, 35' left of centerline, up to 64' AGL/821' MSL.
Trees, beginning 1071' from DER, 253' left of centerline, up to 76' AGL/857' MSL.
**Rwy 36**, tree 2' from DER, 247' right of centerline, 2' AGL/759' MSL.
Trees, terrain, fence, bridge, road, pole, beginning 12' from DER, 139' right of centerline, up to 64' AGL/821' MSL.
Fence 78' from DER, 364' left of centerline, 4' AGL/762' MSL.
Tree, terrain, sign, pole, beginning 189' from DER, 23' left of centerline, up to 57' AGL/814' MSL.
Tree 2539' from DER, 185' right of centerline, 12' AGL/838' MSL.

## VINTON, IA

VINTON VETERANS MEML AIRPARK (VTI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAR22 (22083) (FAA)

DEPARTURE PROCEDURE:

**Rwy 9,** climb on heading 091° to 2800 before turning left.

**Rwy 16**, climb on heading 159° to 2800 before turning.

**Rwy 27,** climb on heading 272° to 2800 before turning.

**Rwy 34,** climb on heading 339° to 2800 before turning right.

TAKEOFF OBSTACLE NOTES:

**Rwy 9,** building, pole beginning 154' from DER, 195' right of centerline, up to 29' AGL/868' MSL.
Tree 453' from DER, 574' left of centerline, 880' MSL.
Trees, poles beginning 643' from DER, 131' left of centerline, up to 890' MSL.
Trees, building, tower beginning 959' from DER, 462' right of centerline, up to 878' MSL.
Tree 981' from DER, 737' left of centerline, 907' MSL.
Tree 1010' from DER, 676' left of centerline, 909' MSL.
Trees beginning 1090' from DER, 170' right of centerline, up to 881' MSL.
**Rwy 16,** vehicle on road 171' from DER, 5' left of centerline, 844' MSL.
Trees, building beginning 256' from DER, 384' right of centerline, up to 929' MSL.
Trees 358' from DER, 8' left of centerline, 919' MSL.
Trees, building beginning 396' from DER, 345' left of centerline, up to 100' 929' MSL.
**Rwy 27,** trees beginning 854' from DER, 517' left of centerline, up to 909' MSL.
**Rwy 34,** farm equipment 327' from DER, 274' left of centerline, 854' MSL.
Trees 524' from DER, 580' left of centerline, up to 929' MSL.

## WARRENSBURG, MO

SKYHAVEN (RCM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 08SEP22 (22251) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 1,** trees beginning 192' from DER, 341' right of centerline, up to 37' AGL/817' MSL.
**Rwy 14,** sign and vehicles on road beginning 177' from DER, on centerline, up to 30' AGL/815' MSL.
**Rwy 19,** trees beginning 5' from DER, 177' right of centerline, up to 27' AGL/815' MSL.
Bldg, sign, multiple trees and poles beginning 466' from DER, 188' left of centerline up to 48' AGL/837' MSL.
Transmission lines beginning 1219' from DER, 188' left of centerline, up to 40' AGL/832' MSL.

## WARSAW, MO

WARSAW MUNI (RAW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 13NOV14 (14317) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** tree 616' from DER, 475' left of centerline, 38' AGL/944' MSL.
**Rwy 36,** trees beginning 233' from DER, 284' left of centerline, up to 100' AGL/1006' MSL. Building 3720' from DER, 193' right of centerline, 100' AGL/1029' MSL.

## WASHINGTON, IA
WASHINGTON MUNI (AWG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 31MAR16 (16091) (FAA)
TAKEOFF MINIMUMS:
**Rwy 31**, 400-2½ or std. w/min. climb of 208' 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 13,** trees beginning 1411' from DER, 280' right of centerline, up to 58' AGL/807' MSL.
**Rwy 18,** terrain 140' from DER, 466' right of centerline, 6' AGL/755' MSL.
**Rwy 31,** tower 1.98 NM from DER, 397' right of centerline, 308' AGL/1065' MSL.
**Rwy 36,** tank 5303' from DER, 285' left of centerline, 150' AGL/893' MSL.

## WASHINGTON, MO
WASHINGTON RGNL (FYG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22OCT09 (09295) (FAA)
TAKEOFF MINIMUMS:
**Rwy 33,** 400-2¼ or std. w/ min. climb of 275' per NM to 1000.
DEPARTURE PROCEDURE:
**Rwy 15,** climb heading 153 ° to 1100 before turning left.
TAKEOFF OBSTACLE NOTES:
**Rwy 15,** numerous trees beginning 3076' from DER, 618' left of centerline up to 108' AGL/589' MSL.
**Rwy 33,** numerous trees beginning 1035' from DER, 171' left of centerline, up to 68' AGL/552' MSL.
Numerous trees beginning 2907' from DER, 66' right of centerline up to 65' AGL/824' MSL.

## WATERLOO, IA
WATERLOO RGNL (ALO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 22APR21 (21112) (FAA)
TAKEOFF MINIMUMS:
**Rwy 36,** 300-1⅛ or std. w/min. climb of 235' per NM to 1100.
TAKEOFF OBSTACLE NOTES:
**Rwy 18,** NAVAID 40' from DER, 150' left of centerline, 4' AGL/870' MSL.
NAVAID 40' from DER, 149' right of centerline, 4' AGL/870' MSL.
Vehicle on road beginning 465' from DER, 500' right of centerline, up to 883' MSL.
Trees beginning 2383' from DER, 802' right of centerline, up to 940' MSL.
Tree 2539' from DER, 802' left of centerline, 948' MSL.
Tree 2852' from DER, 1262' right of centerline, 941' MSL.
**Rwy 30,** sign 15' from DER, 275' left of centerline, 3' AGL/875' MSL.
Trees beginning 554' from DER, 603' right of centerline, up to 891' MSL.
Tree 1904' from DER, 637' right of centerline, 925' MSL.
Tree 2112' from DER, 883' right of centerline, 929' MSL.
Tree 2163' from DER, 936' right of centerline, 931' MSL.
Tree 2213' from DER, 1004' right of centerline, 940' MSL.
Tree 4202' from DER, 1342' right of centerline, 978' MSL.
Trees beginning 4337' from DER, 1541' right of centerline, up to 995' MSL.
**Rwy 36,** terrain, NAVAID beginning 20' from DER, 150' left of centerline, up to 875' MSL.
NAVAID 28' from DER, 148' right of centerline, 4' AGL/872' MSL.
Tree 909' from DER, 605' right of centerline, 932' MSL.
Tree 1093' from DER, 752' right of centerline, 945' MSL.
Trees beginning 1131' from DER, 542' right of centerline, up to 950' MSL.
Tree 1243' from DER, 543' right of centerline, 957' MSL.
Tree, pole beginning 1463' from DER, 9' right of centerline, up to 960' MSL.
Tree 1744' from DER, 122' left of centerline, 926' MSL.
Trees beginning 1781' from DER, 10' left of centerline, up to 935' MSL.
Trees beginning 2191' from DER, 9' left of centerline, up to 959' MSL.
Tree, pole beginning 2217' from DER, 4' right of centerline, up to 976' MSL.
Trees beginning 2614' from DER, 1' right of centerline, up to 980' MSL.
Trees beginning 2734' from DER, 6' right of centerline, up to 983' MSL.
Trees beginning 4421' from DER, 460' right of centerline, up to 984' MSL.
Trees beginning 4452' from DER, 418' right of centerline, up to 987' MSL.
Tree 4480' from DER, 480' right of centerline, 988' MSL.
Tree 4484' from DER, 457' right of centerline, 993' MSL.
Tree 4485' from DER, 502' right of centerline, 995' MSL.
Trees beginning 4525' from DER, 441' right of centerline, up to 996' MSL.
Trees beginning 4564' from DER, 402' right of centerline, up to 1003' MSL.
Trees beginning 4598' from DER, 378' right of centerline, up to 1006' MSL.
Trees beginning 4670' from DER, 383' right of centerline, up to 1007' MSL.
Trees beginning 4764' from DER, 384' right of centerline, up to 1010' MSL.
**CON'T**

## WATERLOO, IA (CON'T)

WATERLOO RGNL (ALO)(CON'T)

**Rwy 36 (CON'T),** trees beginning 4793' from DER, 357' right of centerline, up to 1011' MSL.
Trees beginning 4840' from DER, 400' right of centerline, up to 1013' MSL.
Trees beginning 4846' from DER, 26' right of centerline, up to 1016' MSL.
Tree 5110' from DER, 27' left of centerline, 1009' MSL.
Tree 5180' from DER, 6' left of centerline, 1010' MSL.
Tree 5426' from DER, 721' right of centerline, 1028' MSL.

## WAVERLY, IA

WAVERLY MUNI (C25)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 31DEC20 (20366) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 11,** tree 666' from DER, 628' right of centerline, 1018' MSL.
Transmission line beginning 1594' from DER, 448' left of centerline, up to 60' AGL/1025' MSL.
Transmission line 1812' from DER, 36' right of centerline, 65' AGL/1026' MSL.
Tree, transmission line beginning 1848' from DER, 250' right of centerline, up to 1036' MSL.
**Rwy 29,** pole 131' from DER, 481' right of centerline, 29' AGL/1002' MSL.
Traverse way 140' from DER, 498' left of centerline, 998' MSL.
Tree 398' from DER, 341' left of centerline, 1022' MSL.
Tree, grain elevator beginning 422' from DER, 393' left of centerline, up to 1040' MSL.
Tree 768' from DER, 441' left of centerline, 1042' MSL.

## WEBSTER CITY, IA

WEBSTER CITY MUNI (EBS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18SEP14 (14261) (FAA)

TAKEOFF MINIMUMS:

**Rwys 5, 23,** NA-Environment.

TAKEOFF OBSTACLE NOTES:

**Rwy 14,** bush 22' from DER, 302' left of centerline, 5' AGL/1125' MSL.
Bush 189' from DER, 487' right of centerline, 9' AGL/1129' MSL.
Trees beginning 1838' from DER, 225' left of centerline, up to 65' AGL/1185' MSL.
**Rwy 32,** vehicles on roadway, 354' from DER, 497' right of centerline, up to 15' AGL/1119' MSL.

## WEST PLAINS, MO

WEST PLAINS RGNL (UNO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT1 18NOV10 (10322) (FAA)

TAKEOFF MINIMUMS:

**Rwy 36,** 300-1¼ or std. w/ a min. climb of 215' per NM to 1500, or alternatively, with std. takeoff minimums and a normal 200' per MN climb gradient, takeoff must occur no later than 1400' prior to DER.

TAKEOFF OBSTACLE NOTES:

**Rwy 18,** trees beginning 98' from DER, 65' right of centerline, up to 100' AGL/1339' MSL.
Vehicle on road, 199' from DER, 302' left of centerline, 15' AGL/1254' MSL.
Trees beginning 978' from DER, 388' left of centerline, up to 77' AGL/1277' MSL.
**Rwy 36,** trees beginning 374' from DER, 265' left of centerline, up to 100' AGL/1319' MSL.
Trees beginning 644' from DER, 631' right of centerline, up to 100' AGL/1319' MSL.
Trees beginning 2690' from DER, 601' right of centerline, up to 100' AGL/1339' MSL.
Trees beginning 5800' from DER, 1171' left of centerline, up to 100' AGL/1379' MSL.

## WEST UNION, IA

GEORGE L SCOTT MUNI (3Y2)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 31MAR16 (16091) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 17,** buildings beginning 105' from DER, 322' left of centerline, up to 1207' MSL.
Tower 315' from DER, 296' left of centerline, 23' AGL/1212' MSL.
Pole 341' from DER, 432' left of centerline, 34' AGL/1221' MSL.
Pole and tower beginning 342' from DER, 262' left of centerline, up to 35' AGL/1223' MSL.
NAVAID and pole beginning 345' from DER, 266' left of centerline, up to 39' AGL/1227' MSL.
Tree 2139' from DER, 1012' left of centerline, 1265' MSL.
Tree 2370' from DER, 998' left of centerline, 1273' MSL.
Tree 2477' from DER, 908' left of centerline, 1286' MSL.
**Rwy 35,** tree 58' from DER, 202' right of centerline, 1236' MSL.
T-I tower 842' from DER, 610' left of centerline, 28' AGL/1260' MSL.
Pole 961' from DER, 389' right of centerline, 30' AGL/1257' MSL.
Pole 1068' from DER, 407' left of centerline, 28' AGL/1266' MSL.
Tree 1136' from DER, 573' left of centerline, 1270' MSL.

**WHITEMAN AFB (KSZL)**
KNOB NOSTER, MO
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 20AUG15 (15232)
TAKEOFF OBSTACLE NOTES:
**Rwy 1,** aircraft 17' AGL/886' MSL, 40' inward of DER, 531' left of centerline.
**Rwy 19,** tree 95' AGL/945' MSL, 3411' from DER, 1073' right of centerline.

**WINTERSET, IA**
WINTERSET MUNI (3Y3)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 08JAN15 (15008) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 14,** trees beginning 132' from DER, left and right of centerline, up to 100' AGL/1121' MSL.
**Rwy 32,** vehicles on road beginning 43' from DER, left and right of centerline, up to 15' AGL/1154' MSL.
Pole 158' from DER, 190' left of centerline 26' AGL/1139' MSL.
Trees beginning 548' from DER, left and right of centerline, up to 100' AGL/1186' MSL.
Building 599' from DER, 418' left of centerline, 25' AGL/1140' MSL.