FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
722	722	RNAV (GPS) RWY 35	1	05/24/2018	0W	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV			ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 257/30 CW 077/30	NOPT	257/15 CW 077/15		2700
2. 257/15 CW 077/15		DRIBS	IF/IAF	2600
3. 077/30 CW 167/30		LUGIF	IAF	2600
4. 167/30 CW 257/30		ZONOL	IAF	2600

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BRL VOR/DME		ZONOL		TF	FB	1.00	208.94	16.10	2600
LOAMY		LUGIF		TF	FB	1.00	089.18	15.95	2600
LUGIF	IAF	DRIBS	NOPT	TF	FB	1.00	076.78	8.00	2600
ZONOL	IAF	DRIBS	NOPT	TF	FB	1.00	257.00	8.00	2600
DRIBS	IF/IAF	AWIRU		TF	FB	1.00	346.89	6.90	2400
AWIRU	FAF	FILLS/2.00 NM TO RW35		TF	FB	0.30	346.87	3.14	
FILLS/2.00 NM TO RW35		RW35	MAP	TF	FO	0.30	346.87	2.00	
RW35	MAP	972 MSL		CA			346.87		
972 MSL		HOTTS		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT HOTTS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 23 CHECKED

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD S DRIBS, RT, 346.89 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 346.87 **FAF:** AWIRU **DIST FAF TO MAP:** 5.14 **DIST FAF TO THLD:** 5.14
4. **MIN ALT:** DRIBS 2600, AWIRU 2400, FILLS/2.00 NM TO RW35 1400
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **250 HAT:** 0.65 **GS ANT:**
6. **MIN GP INCPT:** 2400 **GP ALT AT PFAF:** AWIRU 2400 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 50.0
8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BRL ALTIMETER SETTING.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 241.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOAMY ON V10 SOUTHWEST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRL ALTIMETER SETTING; INCREASE LPV DA TO 1004 FEET; INCREASE LNAV/VNAV DA TO 1190 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 166.81 INBOUND.
CHART FAS OBST: 881 TOWER (19-000508) 403834N/0911952W.
CHART HOWARD WEST MOA.
CHART VDP AT 1.24 NM TO RW35.
WAAS CHANNEL # 70741
REFERENCE PATH ID: W35A
CHART CIRCLING ICON.
LTP HAE: 184.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	972	1	250	972	1	250	972	1	250	972	1	250			
LNAV/VNAV DA	1158	1 1/4	436	1158	1 1/4	436	1158	1 1/4	436	1158	1 1/4	436			
LNAV MDA	1140	1	418	1140	1	418	1140	1 1/8	418	1140	1 1/8	418			
CIRCLING	1200	1	478	1200	1	478	1260	1 1/2	538	1500	2 1/2	778			

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA

CHANGES - REASONS

1. TAA, STRAIGHT-IN SECTOR: MOVED “NO PT” FROM 15 NM STEPDOWN ARC TO 30 NM ARC - 8260.19J PARA 8-6-3.A.(1)(B).
2. TAA, LEFT BASE AND RIGHT BASE SECTORS: REMOVED “NO PT” - NOT REQUIRED AND REDUNDANT, THE FOLLOWING INITIAL LEGS ARE LABELED “NO PT”.
3. TAA, ALL SECTORS: REMOVED ALL REFERENCES TO “(FB)” - NOT REQUIRED.
4. TERMINAL ROUTES, FEEDER SEGMENTS FROM BRL VOR/DME AND LOAMY: CHANGED RNP FROM 2.00 TO 1.00 - 8260.58C TABLE 1-2-1, FEEDER SEGMENT INSIDE 30 NM FROM ARP.
5. PROFILE LINE 2: ADDED “MAX 6000” - 8260.19J PARA 8-6-7.B.(2).
6. PROFILE LINE 4: REMOVED ASTERISK FROM “FILLS/2.00 NM TO RW35 1400” - LABELING “LNAV ONLY” NO LONGER REQUIRED.
7. PROFILE LINE 5: ADDED “DIST TO THLD FROM 250 HAT: 0.65 NM” - MOVED FROM ADDITIONAL FLIGHT DATA, 8260.19J PARA 8-6-7.E.(3).
8. PBN REQUIREMENTS NOTE: UPDATED FROM “RNP APCH” TO RNP APCH - GPS” - GPS SENSOR REQUIRED, 8260.19J PARA 8-6-8.D.(5)(A)1.
9. NOTES: REFORMATTED “UNCOMPENSATED BARO-VNAV SYSTEMS” NOTE TO REMOVE FAHRENHEIT REFERENCES - 8260.19J PARA 8-6-10.R.
10. NOTES: RESTORED “BARO-VNAV AND VDP NA WHEN USING BRL ALTIMETER SETTING” FROM 8260-9 - FPT REQUEST TO CHART BACK-UP ALTIMETER DATA.
11. NOTES: CHANGED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 282” TO “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 241” - REPLACED R-282 WITH R-241, NO AIRWAY IS CHARTED ON R-282.
12. NOTES: ADDED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOAMY ON V10 SOUTHWEST BOUND” - LIMIT TURN AT LOAMY TO 90 DEGREES, 8260.19J PARA 8-2-5.E.(2) AND 8260.58C PARA 1-2-5.A.(3).
13. NOTES: RESTORED BACK-UP ALTIMETER NOTE FROM 8260-9 - FPT REQUEST TO CHART BACK-UP ALTIMETER DATA.
14. ADDITIONAL FLIGHT DATA: ADDED OBSTACLE ID “19-000508” TO “CHART FAS OBST” DATA - 8260.19J PARA 8-6-11.C.
15. ADDITIONAL FLIGHT DATA: REMOVED ASTERISK FROM “CHART VDP AT 1.24 NM TO RW35” - LABELING “LNAV ONLY” NO LONGER REQUIRED.
16. ADDITIONAL FLIGHT DATA: DELETED “*LNAV ONLY” - NO LONGER REQUIRED.
17. ALTERNATE MINIMUMS: ADDED “NA WHEN LOCAL WEATHER NOT AVAILABLE” - MOVED FROM 8260-9, LOCAL WEATHER REQUIRED FOR ALTERNATE MINS, 8260.3F PARA 3-4-1.A.(1).
18. MINIMUMS: INCREASED CIRCLING CAT C MDA/HAA FROM 1220/498 TO 1260/538 - NEW CONTROLLING OBSTACLE.
19. FAS DATA: CHANGED FPAP LAT/LONG FROM 404040.3470N/0912000.6030W TO 404040.3475N/0912000.6010W - NEW FPAP CALCULATION.
20. FAS DATA: CHANGED CRC REMAINDER FROM C76123A3 TO BA4993C7 - NEW FAS DATA CALCULATION.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, ZKC, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
SCOTT WIEBE	*Digitally signed by* ***RAKE MCGRAW*** Apr 14, 2025	AJF	03/28/2025

DEVELOPED BY		OFFICE	DATE
RICHARD BRUCE	*Digitally signed by* ***RICHARD A BRUCE*** Nov 12, 2024	AJV-A422	11/12/2024

APPROVED BY		OFFICE	DATE	TITLE
BEV L BORDY	*Digitally signed by* ***RAKE MCGRAW*** Apr 14, 2025	AJV-A420		MANAGER

QUALITY 23 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFSW
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	403913.5280N
LTP/FTP LONGITUDE	0911933.9605W
LTP/FTP ELLIPSOIDAL HEIGHT	+01848
FPAP LATITUDE	404040.3475N
FPAP LONGITUDE	0912000.6010W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	BA4993C7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02180
FPAP ORTHOMETRIC HEIGHT	+02180

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
257/30 CW 077/30

TO
257/15 CW 077/15

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (17-001519)	395819.30N/0911940.40W	1643	50	20	2C	1000					2700
TERRAIN	400245.00N/0911642.00W	793 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
257/15 CW 077/15

TO
DRIBS

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002080)	402401.00N/0913509.00W	1443	50	20	2C	1000				AT157	2600
TERRAIN	401418.00N/0912103.00W	757 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM	TO
077/30 CW 167/30	LUGIF

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002080)	402401.00N/0913509.00W	1443	50	20	2C	1000				AT157	2600
TERRAIN	402609.00N/0920527.00W	790 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RIGHT BASE AREA

FROM	TO
167/30 CW 257/30	ZONOL

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WINDMILL (17-072589)	403759.08N/0904545.61W	1300	250	50	4D	1000				AT300	2600
TERRAIN	403818.00N/0904439.00W	807 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

FEEDER

FROM	TO
BRL VOR/DME	ZONOL

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	16.10				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (17-002476)	403410.35N/0910106.25W	1063	50	20	2C	1000				AT537	2600
TERRAIN	404103.00N/0905424.00W	774 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM	TO
LOAMY	LUGIF

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	15.95				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002080)	402401.00N/0913509.00W	1443	50	20	2C	1000				AT157	2600
TERRAIN	402606.00N/0914651.00W	721 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

INITIAL

FROM	TO
LUGIF	DRIBS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	8.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (19-065633)	402358.12N/0912528.76W	969	20	3	1A	1000				AT631	2600
TERRAIN	402721.00N/0911554.00W	711 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM	TO
ZONOL	DRIBS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	8.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	402730.00N/0911548.00W	912	215	8	4B	1000				AT688	2600
TERRAIN	402721.00N/0911554.00W	711 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

INTERMEDIATE

FROM	TO
DRIBS (IF/IAF)	AWIRU

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	6.90				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	402730.00N/0911548.00W	912	215	8	4B	500				AT988	2400
TERRAIN	403227.00N/0911457.00W	711 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM	TO
AWIRU	RW35

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	5.14		DA	250	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
15. TREE (19-032873)	403909.84N/0911938.49W	764	20	3	1A		34:1			SA-5	972

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

FINAL: LNAV/VNAV

FROM	TO
AWIRU	RW35

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	5.14		DA	436	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (19-000508)	403833.83N/0911952.35W	881	50	20	2C	161				AC20 XP96	1158

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LNAV/VNAV XP 96: TO MAINTAIN CURRENT DA

FINAL: LNAV

FROM	TO
AWIRU	FILLS/2.00 NM TO RW35

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	3.14				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (17-002324)	403520.36N/0911829.46W	1042	250	50	4D	250				AC50 RA40	1400

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

FINAL: LNAV STEPDOWN

FROM	TO
FILLS/2.00 NM TO RW35	RW35

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.00		RW35	418	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
18. TOWER (19-000508)	403833.83N/0911952.35W	881	50	20	2C	250					1140

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM	TO
DRIBS	P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS
		P-5			

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (17-000616)	402535.78N/0911003.37W	1035	20	3	1A	1000				AT565	2600
TERRAIN	402721.00N/0911554.00W	711 (700)								AS1500	2200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

MISSED APPROACH: LPV

FROM	TO
DA	HOTTS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					782

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
AAO	404539.00N/0912348.00W	952	215	8	4B	1000					2000
TERRAIN	403924.00N/0911836.00W	770 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM	TO
DA	HOTTS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					997

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
AAO	404539.00N/0912348.00W	952	215	8	4B	1000					2000
TERRAIN	403924.00N/0911836.00W	770 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
FSW	RNAV (GPS) RWY 35	1A	FORT MADISON	IA	722	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW35	HOTTS

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					1040

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
AAO	404539.00N/0912348.00W	952	215	8	4B	1000					2000
TERRAIN	403924.00N/0911836.00W	770 (800)								AS1500	2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☒ CAT C ☒ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (19-000508)	403833.83N/0911952.35W	1.30	478	881	50	20	2C	300			1200
CATEGORY B											
TOWER (19-000508)	403833.83N/0911952.35W	1.83	478	881	50	20	2C	300			1200
CATEGORY C											
TOWER (19-064882)	404151.95N/0911710.36W	2.88	538	949	20	3	1A	300			1260
CATEGORY D											
23. TOWER (17-001473)	403625.00N/0911622.00W	3.76	778	1132	250	50	4D	300		AC50	1500

CIRCLING REMARKS:

MSA/ESA

CENTER	RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAU ARTCC, FORT DODGE FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3	FSW	24	FSW	0	Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	BRL	24	BRL	11.84	Y	32

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME.
FSW 722, BRL 684.
RA = 31.8.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW17 - MIRL (PCL)	NPI-G	
RW35 - REIL (PCL), MIRL (PCL), PAPI-2L (PCL)	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	715.2	50.0			3.00	27.9

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	[X]	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	[X]	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-16C	+54C	-16C	+13.57C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 964 HIGH TEMP 1272.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT: 75 FEET, PER FPT.

VGS PENETRATIONS (2):
- 19-025293, 716 MSL NAVAID, 1A.
- 19-025294, 716 MSL NAVAID, 1A.
- VISUAL IMAGERY CLEARLY IDENTIFIES THESE AS THE RWY 35 REIL LIGHTS. AS AIRPORT LIGHTING, THEY MAY BE DISREGARDED AS VGS PENETRATIONS, PER 8260.3F, PARA 2-6-6.A.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	**TO 1000FT POINT**	2.94
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	346.87
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	700
DISTANCE FROM	THLD	**TO 1500FT POINT**	4.74
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	1.76
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	346.87
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	700

THRESHOLD COORDINATES (IF STR-IN)	403913.53N/0911933.96W
ARP COORDINATES	403932.80N/0911939.90W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 35 DISTANCE 0.33 NM
FAF COORDINATES	403413.01N/0911801.89W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
TAA:
IF/IAF DRIBS: 402729.44N/0911558.66W.
IAF LUGIF: 402540.06N/0912610.83W.
IAF ZONOL: 402917.92N/0910545.94W.
RADIUS: 30 NM.

QUALITY 23 CHECKED

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RICHARD BRUCE	AJV-A422	11/12/2024	AERONAUTICAL INFORMATION SPECIALIST