

**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 RWF	PROCEDURE NAME RNAV (GPS) RWY 30	ORIGINAL/AMENDMENT 1	CITY REDWOOD FALLS	STATE MN
AIRPORT ELEVATION 1024	TDZE 1024	SUPERSEDED RNAV (GPS) RWY 30	DATED 09/09/2021	EPOCH YEAR 2000
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 30 NOVEMBER 2023	MAG VAR 4E	CANCEL/SUSPEND
		ORIG-AMENDMENT ORIG-A	REQUIRED EFFECTIVE DATE 11/30/2023	

TERMINAL ROUTES

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 23-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RWF VOR/DME		LETPY		TF	FB	1.00	123.50	9.82	3500
COMOS		OSHOF		TF	FB	1.00	194.98	7.83	3500
ZELET	IAF	JAVEP	NOPT	TF	FB	1.00	303.85	5.72	3500
LETPY	IAF	JAVEP	NOPT	TF	FB	1.00	033.73	5.00	3500
OSHOF	IAF	JAVEP	NOPT	TF	FB	1.00	216.42	5.03	3500
JAVEP	IF/IAF	IJIVI		TF	FB	1.00	303.79	6.04	2600
IJIVI	FAF	CIPOS/1.48 NM TO RW30		TF	FB	0.30	303.69	3.33	
CIPOS/1.48 NM TO RW30		RW30	MAP	TF	FO	0.30	303.69	1.48	
RW30	MAP	1274 MSL		CA			303.69		
1274 MSL		ZUMIV		DF	FB	1.00			
ZUMIV		MOLOW		TF	FO	1.00	256.73	12.58	3800

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3800 DIRECT ZUMIV AND ON TRACK 256.73 TO MOLOW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- | | | | | | | | | | | | |
|---------------------------------|-----------------------------------------------------------------------------|------------------------|------------------|-------------------------|----------|--------------------------|------|-----------------|------|----------------|--|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) | | | | | | |
| 2. | HOLD SE JAVEP, RT, 303.78 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 10000. | | | | | | | | | | |
| 3. FAC: | 303.69 | FAF: | IJIVI | DIST FAF TO MAP: | 4.81 | DIST FAF TO THLD: | 4.81 | | | | |
| 4. MIN ALT: | JAVEP 3500, IJIVI 2600, CIPOS/1.48 NM TO RW30 1540 | | | | | | | | | | |
| 5. DIST TO THLD FROM OM: | | MM: | | IM: | | 150 HAT: | | 250 HAT: | 0.65 | GS ANT: | |
| 6. MIN GP INCPT: | 2600 | GP ALT AT PFAF: | IJIVI 2600 | | | OM: | | MM: | | IM: | |
| 7. GP ANGLE: | 3.00 | 34:1: | IS CLEAR | 20:1: | IS CLEAR | TCH: | 45.0 | | | | |
| 8. MSA FROM: | RW30 2800 | | | | | | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 5, 12 AND 23 NA AT NIGHT.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART SPEED ICON IN PLANVIEW AT RWF: MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT COMOS: MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT LETPY: MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT OSHOF: MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT JAVEP: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 106.35 INBOUND.
 CHART FAS OBST: 1119 TREE 443221N/0950306W.
 1240 AAO 442927N/0950029W.
 WAAS CHANNEL # 86610
 REFERENCE PATH ID: W30A
 LTP HAE: 284.2 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 800-2 1/4, 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
LPV DA	1274	3/4	250	1274	3/4	250	1274	3/4	250	1274	3/4	250			
LNAV/VNAV DA	1420	1 1/8	396	1420	1 1/8	396	1420	1 1/8	396	1420	1 1/8	396			
LNAV MDA	1380	1	356	1380	1	356	1380	1	356	1380	1	356			
CIRCLING	1480	1	456	1660	1	636	1700	2	676	1700	2 1/4	676			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED FEEDER "MKT VOR/DME TO ZELET" - MKT VOR MON.
2. TERMINAL ROUTES: UPDATED RWF VOR/DME TO LETPY COURSE FROM "123.47" TO "123.50"- PER 8260.58B, PARA 1-2-5 A (3).
3. TERMINAL ROUTES: UPDATED JAVEP TO IJIVI COURSE/DISTANCE FROM "303.78/6.10" TO "303.79/6.04"- RELOCATED FIX IJIVI PER FPT/FAF MOVED TO MAINTAIN 3.00 GPA.
4. TERMINAL ROUTES: UPDATED FROM "IJIVI TO CIPOS/1.50" TO "IJIVI TO CIPOS/1.48" AND COURSE/DISTANCE FROM "303.70/3.25" TO "303.69/3.33"- RELOCATED FIXES CIPOS AND IJIVI PER FPT/FAF MOVED TO MAINTAIN 3.00 GPA.
5. TERMINAL ROUTES: UPDATED FROM "CIPOS/1.50 TO RW30" TO "CIPOS/1.48 TO RW30" AND COURSE/DISTANCE FROM "303.70/1.50" TO "303.69/1.48"- RELOCATED FIX CIPOS PER FPT/FAF MOVED TO MAINTAIN 3.00 GPA.
6. TERMINAL ROUTES: ADDED CA LEG "RW30 TO 1274 MSL" AND AMENDED DF LEG ROUTE FROM "RW30 TO ZUMIV" TO "1274 MSL TO ZUMIV" – CA LEG ADDED PER 8260.58B, PARA 3-5-2.
7. MISSED APPROACH INSTRUCTION: CHANGED FROM "CLIMB TO 3800 DIRECT ZUMIV AND VIA 258.40 TRACK TO MOLOW AND HOLD" TO "CLIMB TO 3800 DIRECT ZUMIV AND ON TRACK 256.73 TO MOLOW AND HOLD"- RELOCATED ZUMIV FIX TO PREVENT EARLY TURN ERROR; PER 8260.58B, PARA 3-7-3.
8. PROFILE LINE 2: UPDATED FROM "HOLD SE JAVEP, RT, 303.78 INBOUND, 3500 FT. IN LIEU OF PT (IAF)" TO "HOLD SE JAVEP, RT, 303.78 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 10000" - PER 8260.19I, PARA 8-6-7.B (2).
9. PROFILE LINE 3: UPDATED FAC FROM "303.70" TO "303.69" AND DIST FAF TO MAP/THLD FROM "4.75" TO "4.81"- RELOCATED FIX IJIVI PER FPT/FAF MOVED TO MAINTAIN 3.00 GPA.
10. PROFILE LINE 4: UPDATED MIN ALT FROM "JAVEP 3500, IJIVI 2600, CIPOS/1.50 NM TO RW30 1540*" TO "JAVEP 3500, IJIVI 2600, CIPOS/1.48 NM TO RW30 1540"- RELOCATED FIXES CIPOS AND IJIVI PER FPT/FAF MOVED TO MAINTAIN 3.00 GPA.
11. PROFILE LINE 5: UPDATED FROM "280 HAT: 0.74" TO "250 HAT: 0.65"- LPV HAT CHANGED FROM 280 TO 250, NEW EVALUATION.
12. PROFILE LINE 6: GP ALT AT PFAF UPDATED FROM "IJIVI" TO "IJIVI 2600"- ADDED PFAF ALTITUDE PER 8260.19I, PARA 8-6-7 F.
13. PROFILE LINE 7: ADDED "IS CLEAR" TO 20:1 AND CHANGED 34:1 FROM "IS NOT CLEAR" TO "IS CLEAR"- NO 20:1 AND 34:1 PENETRATIONS PRESENT; 8260.19I, PARA 8-6-7.G (3).
14. PROFILE LINE 8 - UPDATED MSA ALTITUDE FROM "RW30 2700" TO RW30 2800 – NEW CONTROLLING OBSTACLE.
15. PBN REQUIREMENTS NOTE: ADDED "RNP APCH-GPS" AND REMOVED "DME/DME RNP-0.3 NA" FROM CHART NOTE - PER 8260.19I, PARA 8-6-8 B (2).
16. CHART NOTE: REMOVED "VISIBILITY REDUCTION BY HELICOPTERS NA"- NO PENETRATIONS EXIST FOR 20:1 AND 34:1 PER 8260.19I, PARA 8-6-11K (3).
17. CHART NOTE: CHANGED BACKUP ALTIMETER NOTE FROM: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OLIVIA REGIONAL ALTIMETER SETTING AND INCREASE ALL DAMDA 40 FEET AND LNAV CAT C VISIBLTY 1/4 MILE" TO "NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OLIVIA ALTIMETER SETTING AND INCREASE LPV DA TO 1314 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1460 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM "- MOVED TO -9 AS A CONTINGENCY NOTE; WEATHER ON WMSCR.
18. CHART NOTE: CHANGED FROM "BARO-VNAV NA WHEN USING OLIVIA RGNL ALTIMETER SETTING" TO "BARO-VNAV NA WHEN USING OLIVIA ALTIMETER SETTING" - MOVED TO -9 AS A CONTINGENCY NOTE.
19. ADDITIONAL FLIGHT DATA: ADDED "LTP HAE: 284.2 M"- PER 8260.19I, 8-6-10.
20. CHART NOTE: DELETED ASTERISK NEXT TO STEPDOWN FIX ALTITUDE ON PROFILE LINE 4 AND "LNAV ONLY" CHART NOTE – NO LONGER REQUIRED; PER 8260.19I, PARA 1-1-5.F (12).
21. CHART PLANVIEW NOTE: REMOVED "PROCEDURE NA FOR ARRIVALS AT MKT VOR/DME VIA V250 NORTHEAST BOUND"- MKT VOR MON, REMOVED FEEDER FROM MKT VOR/DME TO ZELET.
22. CHART NOTE: ADDED CIRCLING RWY 5, 12 AND 23 NA AT NIGHT - 20:1 VISUAL AREAS HAVE PENETRATIONS/NO RUNWAY SURVEY PER 8260.19I, PARA 8-6-11.O(2) G.
23. CHART NOTE: UPDATED FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C"- UPDATED WEATHER STUDY USED (2018-2022)/PER 8260.19I, PARA 8-6-9.R.
24. NOTES: ADDED CHART SPEED ICON IN PLANVIEW AT COMOS/OSHOF/LETPY/RWF AND JAVEP: MAX 210 KIAS - TO ACCOMMODATE VECTOR LENGTH OF SEGMENT/PER FPT REQUEST AND 8260.19I, PARA 4-6-10.G.
25. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "1139 TREE 443150N/0950343W" TO "1119 TREE 443221N/0950306W." - NEW CONTROLLING OBSTACLE.
26. ADDITIONAL FLIGHT DATA: ADDED "1240 AAO 442927N/0950029W"- NEW 7:1 EXCLUDED OBSTACLE PER 8260.19I, PARA 8-6-10.E AND 8260.3E, PARA 2-9-10.
27. MINIMUMS: UPDATED LPV DA/HAT ALL CATS FROM "1304/280" TO "1274/250" AND VISIBILITIES ALL CATS FROM "1" TO "3/4"- NEW CONTROLLING OBSTACLE/ VISIBILITY VALUES UPDATED PER TABLE 3-3-1.
28. MINIMUMS: DECREASED LNAV/VNAV MDA/HAT ALL CATS FROM "1440/416" TO "1420/396" AND VISIBILITIES ALL CATS FROM "1 1/2" TO "1 1/8"- NEW CONTROLLING OBSTACLE/VISIBILITY VALUES UPDATED PER 8260.3E /TABLES 3-3-1, 3-3-3 AND 3-3-4.
29. MINIMUMS: DECREASED LNAV MDA/HAT ALL CATS FROM "1400/376" TO "1380/356" AND CAT D VISIBILITY FROM "1 1/4" TO "1"- NEW CONTROLLING OBSTACLE/VISIBILITY VALUES UPDATED PER TABLE 3-3-1.
30. FAS DATA: UPDATED FPAP LATITUDE/LONGITUDE FROM "443332.9100N/0950612.1200W" TO "443332.8965N/0950612.1365W"- UPDATED AIRNAV DATA.
31. FAS DATA: CRC REMAINDER CHANGED FROM "0D7F1FC9" TO "6AB89778"- FPAP LATITUDE/LONGITUDE CHANGED FROM "443332.9100N/0950612.1200W" TO "443332.8965N/0950612.1365W".

10/3/2023: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/15/2023.

1. TERMINAL ROUTES ZUMIV TO MOLOW: ADDED DISTANCE 12.58.



AIRPORT ID
RWF

PROCEDURE NAME
RNAV (GPS) RWY 30

ORIGINAL/AMENDMENT
1

CITY
REDWOOD FALLS

STATE
MN

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: AMGR, ZMP

FLIGHT CHECKED BY
PENDING

Digitally signed by
DAVID DANNER
Oct 10, 2023

OFFICE

DATE

DEVELOPED BY
JASON KRETSCHMER (KAMARUDINI R. RAIMI)

Digitally signed by
DAVID DANNER
Oct 10, 2023

OFFICE
AJV-A421

DATE
04/04/2023

APPROVED BY
JASON KRETSCHMER

Digitally signed by
DAVID DANNER
Oct 10, 2023

OFFICE
AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRWF
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	443238.5140N
LTP/FTP LONGITUDE	0950433.4380W
LTP/FTP ELLIPSOIDAL HEIGHT	+02842
FPAP LATITUDE	443332.8965N
FPAP LONGITUDE	0950612.1365W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
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	6AB89778

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03117
FPAP ORTHOMETRIC HEIGHT	+03117

