

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.

<u>AIRPORT ID</u> GFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27R	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> GRAND FORKS	<u>STATE</u> ND
<u>AIRPORT ELEVATION</u> 845	<u>TDZE</u> 843	<u>SUPERSEDED</u> RNAV (GPS) RWY 27R	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 03/26/2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> 10/31/2024	<u>MAG VAR</u> 6E
				<u>EPOCH YEAR</u> 1985
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GFK VOR/DME		URBAH		TF	FO	1.00	084.72	11.56	2800
EYWUS	IAF	URBAH	NOPT	TF	FB	1.00	174.79	10.94	2800
JIXIR	IAF	URBAH	NOPT	TF	FB	1.00	353.17	8.24	2800
URBAH	IF/IAF	JMKNG		TF	FB	1.00	264.20	6.10	2400
JMKNG	FAF	ROKKS/1.55 NM TO RW27R		TF	FB	0.30	264.10	3.20	
ROKKS/1.55 NM TO RW27R		RW27R	MAP	TF	FO	0.30	264.10	1.55	
RW27R	MAP	1043 MSL		CA			264.10		
1043 MSL		DUCEV		DF	FO	1.00			4000

MISSED APPROACH

MAP:  
LPV: DA  
LNAV/VNAV: DA  
LNAV: RW27R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT DUCEV AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD E URBAH, RT, 264.20 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 264.10

FAF: JMKNG

DIST FAF TO MAP: 4.75

DIST FAF TO THLD: 4.75

4. MIN ALT: URBAH 2800, JMKNG 2400, ROKKS/1.55 NM TO RW27R 1380

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.49

GS ANT:

6. MIN GP INCPT: 2400

GP ALT AT PFAF: JMKNG 2400

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 44.0

8. MSA FROM: RW27R 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CKN ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GFK VOR/DME AIRWAY RADIALS 360 CW 160.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CKN ALTIMETER SETTING AND INCREASE LPV DA TO 1104 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1178 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 083.77 INBOUND.  
CHART FAS OBST: 956 CONTROL\_TOWER (38-022326) 475656N/0971026W.  
CHART 1289 TOWER (27-026881) 475739N/0970235W.  
CHART VDP AT 1.04 NM TO RW27R.  
WAAS CHANNEL # 78104  
REFERENCE PATH ID: W27A  
CHART CIRCLING ICON.  
LTP HAE: 230.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	1043	3/4	200	1043	3/4	200	1043	3/4	200	1043	3/4	200			
LNAV/VNAV DA	1117	7/8	274	1117	7/8	274	1117	7/8	274	1117	7/8	274			
LNAV MDA	1220	1	377	1220	1	377	1220	1	377	1220	1	377			
CIRCLING	1260	1	415	1300	1	455	1400	1 1/2	555	1420	2	575			



**CHANGES - REASONS**

1. TERMINAL ROUTES: CHANGED FEEDER FROM GFK VOR/DME COURSE AND DISTANCE FROM 084.71/11.71 TO 084.72/11.56 – IF/IAF URBAN MOVED 906 FT W.
2. TERMINAL ROUTES: CHANGED INITIAL SEGMENT FROM EYWUS COURSE FROM 174.01 TO 174.79 – IF/IAF MOVED 906 FT W.
3. TERMINAL ROUTES: CHANGED INITIAL SEGMENT FROM JIXIR COURSE FROM 354.21 TO 353.17 – IF/IAF MOVED 906 FT W.
4. TERMINAL ROUTES: CHANGED INTERMEDIATE SEGMENT FROM URBAN COURSE AND DISTANCE FROM 264.21/6.31 TO 264.20/6.10 – FAF MOVED 376 FT E BASED ON 3.00/44 GPA/TCH CALCULATION.
5. TERMINAL ROUTES: ADDED SDF (ROKKS) TO LNAV FINAL - TO LOWER LNAV MINIMUMS/PER FPT CHECKLIST.
6. TERMINAL ROUTES: CHANGED CA LEG FROM "RW27R TO 1093 MSL" TO "RW27R TO 1043 MSL" – LOWERED LPV DA.
7. MISSED APPROACH: ADDED "LNAV/VNAV: DA" TO MAP – LNAV/VNAV MINIMUMS ADDED TO PROCEDURE IAW FPT CHECKLIST.
8. PROFILE LINE 2: UPDATED HIL COURSE FROM 264.21 TO 264.20 – FAF MOVED 376 FT E.
9. PROFILE LINE 3: UPDATED DIST FAF TO MAP/ DIST FAF TO THLD FROM 4.69 TO 4.75 – FAF MOVED 376 FT E BASED ON 3.00/44 GPA/TCH CALCULATION.
10. PROFILE LINE 4: ADDED "ROKKS/1.55 NM TO RW27R 1380" TO MIN ALT – ROKKS SDF ADDED TO LNAV FINAL; IAW 8260.19J 8-6-7 D(3).
11. PROFILE LINE 5: CHANGED HAT FROM "250 HAT: 0.63" TO "200 HAT: 0.49" – LOWERED LPV DA.
12. PROFILE LINE 7: UPDATED TCH FROM 48 TO 44 – PER FPT CHECKLIST; TO MATCH VGSI TCH.
13. PROFILE LINE 8: LOWERED MSA FROM 3300 TO 3000 - CONTROLLING OBSTACLE ELEVATION CHANGED FROM 2226 MSL TO 1964 MSL.
14. PBN REQUIREMENTS NOTE: CHANGED NOTE FROM "RNP APCH" TO "RNP APCH – GPS" – IAW 8260.19J 8-6-8 D(5) A1.
15. NOTES: ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C OR ABOVE 54C" - LNAV/VNAV LINES OF MINIMA ADDED; IAW 8260.19J 8-6-10R.
16. NOTES: CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVAL ON GFK VOR/DME AIRWAY RADIALS 071 CW 160" TO "PROCEDURE NA FOR ARRIVAL ON GFK VOR/DME AIRWAY RADIALS 360 CW 160" - IAW 8260.3.
17. NOTES: UPDATED CHART NOTE FROM "VDP NA WHEN USING CROOKSTON ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING CKN ALTIMETER SETTING" – LNAV/VNAV LINE OF MINIMA ADDED; APPLICATION OF LOCATION ID IAW 8260.19J.
18. NOTES: UPDATED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA 62 FEET AND ALL MDA 80 FEET. INCREASE LNAV AND CIRCLING CAT C AND D VISIBILITY 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CKN ALTIMETER SETTING AND INCREASE LPV DA TO 1104 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1178 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 3/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM" - IAW 8260.3E; BACKUP ALTIMETER NOTES TO REMAIN PUBLISHED ON CHART PER FPT.
19. ADDITIONAL FLIGHT DATA: CHANGED NOTE FROM "CHART VDP AT 1.78 NM TO RW27R" TO "CHART VDP AT 1.04 NM TO RW27R" - LNAV MDA LOWERED FROM 1460 TO 1200 AND VGSI TCH CHANGED FROM 48 TO 44.
20. ADDITIONAL FLIGHT DATA: DELETED "LNAV ONLY" AND ASTERISK FROM PROFILE LINE 4 - NO LONGER REQUIRED IAW 8260.19J 8-6-11 M(2).
21. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM "FAS OBST: 1044 AAO 475739N/0970454W" TO "CHART FAS OBST: 954 CONTROL\_TOWER (38-029804) 475656N/0971026W" – NEW LNAV FINAL CONTROLLING OBSTACLE.
22. ADDITIONAL FLIGHT DATA: CHANGED CHARTED OBSTACLE FROM "1084 TOWER 475621N/0970312W" TO "1289 TOWER (27-026881) 475739N/0970235W" – NEW 7:1 EXCLUDED OBSTACLE.
23. ADDITIONAL FLIGHT DATA: CHANGED MISSED APPROACH HOLDING FROM "HOLD W, RT, 083.78 INBOUND" TO "HOLD W, RT, 083.77 INBOUND" – PROCEDURE REDESIGN.
24. MINIMUMS: LOWERED LPV DA/HAT ALL CATS FROM 1093/250 TO 1043/200 – FORMER CONTROLLING OBSTACLE REMOVED BY AIRPORT.
25. MINIMUMS: LOWERED LPV VISIBILITIES ALL CATS FROM 1 TO 3/4 - IAW 8260.3E VISIBILITY TABLES.
26. MINIMUMS: ADDED LNAV/VNAV MINIMUMS DA/HAT ALL CATS 1117/274; VISIBILITY 7/8 SM – LNAV/VNAV MINIMUMS ADDED.
27. MINIMUMS: LOWERED LNAV MDA/HAT ALL CATS FROM 1460/617 TO 1220/377 – FORMER CONTROLLING OBSTACLE REMOVED BY AIRPORT; STEPDOWN FIX ADDED.
28. MINIMUMS: LOWERED LNAV VISIBILITIES CATS C AND D FROM 1 3/4; 2 - IAW 8260.3E VISIBILITY TABLES.
29. MINIMUMS: LOWERED CIRCLING MDA/HAT CAT A FROM 1460/615 TO 1260/415; CAT B FROM 1460/615 TO 1300/455; CAT C FROM 1460/615 TO 1400/555; CAT D FROM 1460/615 TO 1420/575 – LNAV MINIMUMS LOWERED.
30. MINIMUMS: LOWERED CIRCLING CAT C VISIBILITY FROM 1 3/4 TO 1 1/2 - IAW 8260.3E VISIBILITY TABLES.
31. FAS DATA BLOCK INFORMATION: CHANGED LTP/FTP LAT/LONG FROM 475708.6060N/0971003.9370W TO 475708.5995N/0971004.0145W - UPDATED AIRNAV DATA.
32. FAS DATA BLOCK INFORMATION: LOWERED THRESHOLD CROSSING HEIGHT (TCH) FROM 00048.0 TO 00044.0 - PROCEDURE TCH SET TO VGSI TCH.
33. FAS DATA BLOCK INFORMATION: CHANGED LENGTH OFFSET; VERTICAL ALERT LIMIT (VAL) FROM 1472; 50.0 TO 0704; 35.0 - LPV HAT LOWERED FROM 250 TO 200.
34. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM 687264E8 TO 559AEABD - UPDATED AIRNAV DATA.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

ZMP, GFK APP CON, GFK ATCT, ARPT MGR

FLIGHT CHECKED BY

PENDING

Digitally signed by

JOSEPH L ZEDER

Jul 25, 2024

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (HOPE N. DENTON)

Digitally signed by

JOSEPH L ZEDER

Jul 25, 2024

OFFICE

AJV-A432

DATE

05/06/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

JOSEPH L ZEDER

Jul 25, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

DATA

0  
0  
KGFK  
RW27R  
0  
0  
W27A  
475708.5995N  
0971004.0145W  
+02301  
475708.6045N  
0971216.5655W  
00044.0  
F  
03.00  
106.75  
0704  
40.0  
35.0

CRC REMAINDER

559AEABD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE  
LTP ORTHOMETRIC HEIGHT  
FPAP ORTHOMETRIC HEIGHT

K3  
+02569  
+02569

