

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> KGFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17R	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> GRAND FORKS	<u>STATE</u> ND		
<u>AIRPORT ELEVATION</u> 845	<u>TDZE</u> 843	<u>SUPERSEDED</u> RNAV (GPS) RWY 17R	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 6E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
EYWUS		WIXAG		TF	FB	1.00	276.20	5.01	2600
GFK VOR/DME		FODIB		TF	FO	1.00	354.83	11.84	2600
WIXAG	IAF	FODIB	NOPT	TF	FB	1.00	264.14	6.60	2600
WUTSO	IAF	FODIB	NOPT	TF	FB	1.00	180.83	5.92	2600
FODIB	IF/IAF	RULLO		TF	FB	1.00	174.02	6.53	2500
RULLO	FAF	RW17R	MAP	TF	FO	0.30	174.02	5.04	
RW17R	MAP	1043 MSL		CA			174.02		
1043 MSL		ERIXE		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW17R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT ERIXE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD N FODIB, RT, 174.02 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	174.02	FAF: RULLO	DIST FAF TO MAP: 5.04	DIST FAF TO THLD: 5.04	
4. MIN ALT:	FODIB 2600, RULLO 2500				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.46	GS ANT:
6. MIN GP INCPT:	2500	GP ALT AT PFAF :	RULLO 2500	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 53.1	IM:
8. MSA FROM:	RW17R 3300				

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA WHEN USING CROOKSTON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: VDP NA WITH CROOKSTON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA 62 FT AND ALL MDA 80 FT AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CATS C/D VISIBILITY 1/8 SM, AND CIRCLING CAT C VISIBILITY 1/4 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EYWUS ON V171 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUTSO ON T407 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GFK VOR/DME AIRWAY RADIAL 071 WESTBOUND AND ON AIRWAY RADIAL 270 EASTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 354.02 INBOUND.
CHART FAS OBST: 915 TREE (38-027230) 475849N/0971116W.
CHART VDP AT 0.89 NM TO RW17R.
WAAS CHANNEL # 63199
REFERENCE PATH ID: W17A
CHART CIRCLING ICON.
LTP HAE: 230.2 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	1093	3/4	250	1093	3/4	250	1093	3/4	250	1093	3/4	250			
LNAV MDA	1180	1	337	1180	1	337	1180	1	337	1180	1	337			
CIRCLING	1260	1	415	1300	1	455	1400	1 1/2	555	1400	2	555			

CHANGES - REASONS

1. TERMINAL ROUTE EYWUS TO WIXAG CHANGED RNP VALUE FROM 2.00 TO 1.00 - IAW 8260.19I 4-6-10.F.
2. TERMINAL ROUTE GFK VOR/DME TO FODIB CHANGED RNP VALUE FROM 2.00 TO 1.00 - IAW 8260.19I 4-6-10.F.
3. NOTES SECTION ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GFK VOR/DME AIRWAY RADIAL 071 WESTBOUND AND ON AIRWAY RADIAL 270 EASTBOUND." - IAW 8260.19I.
4. NOTES SECTION CHANGED NOTE FROM "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUTSO ON V181 NORTHBOUND." TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUTSO ON T407 NORTHBOUND." - PER CURRENT EVALUATION.
5. CHANGED PBN REQUIREMENTS NOTE FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I 8-6-8.B(2).
6. ADDITIONAL FLIGHT DATA REMOVED *LNAV ONLY. - IAW 8260.19I.
7. ADDITIONAL FLIGHT DATA REMOVED ASTERISK FROM "CHART VDP AT 0.89 NM TO RW17R" - IAW 8260.19I.
8. FAS DATA BLOCK CHANGED HAL VALUE FROM "35.0" TO "40.0" - IAW 8260.19I APPENDIX K.4.W.
9. FAS DATA BLOCK CHANGED VAL VALUE FROM "40.0" TO "35.0" - IAW 8260.19I APPENDIX K.4.X.
10. FAS DATA BLOCK CRC REMAINDER CHANGED FROM "CF083809" TO "34F45164" - IAW 8260.19I AND HAL/VAL CHANGES LISTED ABOVE.

COORDINATED WITH:

~~A4A~~ ☒ ~~ALPA~~ ☒ ~~AOPA~~ ☒ ~~APA~~ ☒ ~~HAI~~ ☐ ~~NBAA~~ ☒ **OTHER:** GFK ATCT, GFK APP CON, ZMP, AMGR

FLIGHT CHECKED BY

GLEN B FREEMAN

DEVELOPED BY

NEERAJ VERMA

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Aug 14, 2023

OFFICE

FPO

DATE

08/11/2023

Digitally signed by

RAKE MCGRAW

Jul 17, 2023

OFFICE

AJV-A422

DATE

06/28/2023

Digitally signed by

RAKE MCGRAW

Aug 14, 2023

OFFICE

AJV-A422

DATE

TITLE
MANAGER

QUALITY
10
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGFK
RUNWAY	RW17R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	475733.2835N
LTP/FTP LONGITUDE	0971052.4095W
LTP/FTP ELLIPSOIDAL HEIGHT	+02302
FPAP LATITUDE	475604.2395N
FPAP LONGITUDE	0971052.4545W
THRESHOLD CROSSING HEIGHT (TCH)	00053.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0512
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	34F45164

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02569
FPAP ORTHOMETRIC HEIGHT	+02569



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
KGFK	RNAV (GPS) RWY 17R	1A	GRAND FORKS	ND	845	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM EYWUS TO WIXAG

<u>RNP</u>	<u>DISTANCE</u> 5.01	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	480948.00N/0965515.00W		1083	164	98	4E	1000				AT517	2600
2.TERRAIN	480948.00N/0965515.00W		883 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM GFK VOR/DME TO FODIB

<u>RNP</u>	<u>DISTANCE</u> 11.84	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (38-000727)	480501.38N/0971048.92W		1115	20	3	1A	1000				AT485	2600
4.TERRAIN	480027.00N/0971400.00W		844 (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 KGFK	PROCEDURE NAME RNAV (GPS) RWY 17R	AMDT NO. 1A	CITY GRAND FORKS	STATE ND	AIRPORT ELEVATION 845	FACILITY RNAV					
INITIAL											
FROM WIXAG			TO FODIB								
RNP	DISTANCE 6.60	PAT	MAP	HAT	HMAS						
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (27-000937)	480723.00N/0970423.00W	1313	100	20	3C	1000				AT287	2600
6.TERRAIN	481027.00N/0965957.00W	870 (900)								AS1500	2400

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

SEGMENT REMARKS:

INITIAL											
FROM WUTSO			TO FODIB								
RNP	DISTANCE 5.92	PAT	MAP	HAT	HMAS						
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (38-001080)	481139.70N/0971129.70W	1162	250	50	4D	1000				AT438	2600
8.TERRAIN	480815.00N/0971330.00W	817 (800)								AS1500	2300

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

SEGMENT REMARKS:



INTERMEDIATE

FROM

FODIB (IF/IAF)

TO

RULLO

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.53											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (38-000727)	480501.38N/0971048.92W		1115	20	3	1A	500				AT885	2500
9.TERRAIN	480242.00N/0971230.00W		827 (800)								AS1500	2300

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

SEGMENT REMARKS:

FINAL: LPV

FROM

RULLO

TO

RW17R

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.96		DA	200								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1043

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

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM
RULLO

TO
RW17R

RNP	DISTANCE 4.96	PAT	MAP DA	HAT 250			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TREE (38-027132)	475809.39N/0971131.60W		907	20	3	1A	161					1093

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
RULLO

TO
RW17R

RNP	DISTANCE 5.04	PAT	MAP RW17R	HAT 337			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.TREE (38-027230)	475849.13N/0971116.43W		915	20	3	1A	250					1180

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

FODIB

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
P-5												
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.TOWER (38-001080)	481139.70N/0971129.70W	1162	250	50	4D	1000				AT438	2600	
12.TERRAIN	480527.00N/0971618.00W	831 (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 : LPV

FROM

DA

TO

ERIXE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					877							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
							ASC				2600	
13.TRANSMISSION_LINE (38-023354)	475349.21N/0971235.70W	985	500	50	5D	1000					2000	
14.TERRAIN	474439.00N/0971351.00W	968 (1000)								AS1500	2500	

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
DA

TO
ERIXE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 932					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
13.TRANSMISSION_LINE (38-023354)	475349.21N/0971235.70W		985	500	50	5D	1000					2000
14.TERRAIN	474439.00N/0971351.00W		968 (1000)								AS1500	2500

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

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM
RW17R

TO
ERIXE

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1080					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
13.TRANSMISSION_LINE (38-023354)	475349.21N/0971235.70W		985	500	50	5D	1000					2000
14.TERRAIN	474439.00N/0971351.00W		968 (1000)								AS1500	2500

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											
15.CONTROL_TOWER (38-022326)	475655.94N/0971025.81W	1.30	415	956	20	3	1A	300			1260
CATEGORY B											
16.TOWER (38-022999)	475509.52N/0970747.56W	1.83	455	995	20	3	1A	300			1300
CATEGORY C											
17.TOWER (38-006051)	475544.00N/0970517.00W	2.89	555	1034	250	50	4D	300		AC50	1400
CATEGORY D											
17.TOWER (38-006051)	475544.00N/0970517.00W	3.77	555	1034	250	50	4D	300		AC50	1400

CIRCLING REMARKS:

REQUEST FC 4D VERIFICATION FOR CAT C/D CONTROLLER 38-006051. NO ACCURACY CODE ASSIGNED IN DATABASE.

MSA

CENTER

RW17R

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (38-000626)	475739.63N/0975206.93W	266	28.0	2226	20	3	1A	1000			3300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT APPLIED IAW ATC REQUEST



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
GFK TOWER, GFK APP CON, ZMP ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KGFK	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGFK	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KCKN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCKN	<u>DISTANCE</u> 23.19	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 62

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KGFK 844.6, KCKN 900.2
RA = 61.1

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09R - MIRL, PAPI-2L		BSC-G	
RW17L - MIRL, PAPI-4L		BSC-G	
RW27L - MIRL, PAPI-2L		BSC-G	
RW35R - MIRL, PAPI-4L		BSC-G	
RW09L - MIRL (PCL), PAPI-4L		NPI-G	
RW27R - MIRL (PCL), REIL (PCL), PAPI-4L		NPI-G	
RW17R - HIRL (PCL), REIL (PCL), PAPI-4L		PIR-G	ROLL OUT
RW35L - MALSR (PCL), HIRL (PCL), PAPI-4L		PIR-G	APPROACH

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 843	<u>TCH</u> 53.1	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 53.1
---------------------------------	----------------------------------	--------------------	------------------------	--------------------------	---------------------------	--------------------

<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	



CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-20C	+54C	-33C	-33.33C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2013-2017).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 965 HIGH TEMP 1127.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

60 FT VEGETATION HEIGHT PER FPT REQUEST

NO ADDITIONAL AIRSPACE REQUIRED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KGFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17R	<u>AMDT NO.</u> 1A	<u>CITY</u> GRAND FORKS	<u>STATE</u> ND	<u>AIRPORT ELEVATION</u> 845	<u>FACILITY</u> RNAV
---------------------------	---	-----------------------	----------------------------	--------------------	---------------------------------	-------------------------

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	2.84
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	180.02
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	THLD	TO 1500FT POINT	4.64
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	180.02
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	800

THRESHOLD
COORDINATES
(IF STR-IN)

475733.28N/0971052.41W

ARP COORDINATES

475648.91N/0971023.48W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 27L DISTANCE 0.90 NM

FAF
COORDINATES

480235.28N/0971052.26W

FIX NAME
COORDINATES

REMARKS

QUALITY
10
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 10 of 11

PART E: PREPARED BY

<u>NAME</u> NEERAJ VERMA	<u>OFFICE</u> AJV-A422	<u>DATE</u> 06/28/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
-----------------------------	---------------------------	---------------------------	---

