

**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</u> BRainerd LAKES RGNL	<u>AIRPORT ID</u> KBRD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 34	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> BRainerd	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1232	<u>TDZE</u> 1232	<u>SUPERSEDED</u> RNAV (GPS) RWY 34	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 03/29/2018	<u>MAG VAR</u> 3E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1995

**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>
COMIN	IAF	AFUNI	NOPT	TF	FB	1.00	069.64	5.00	3000
DRAWG	IAF	AFUNI	NOPT	TF	FB	1.00	249.80	5.00	3000
AFUNI	IF/IAF	NUYBI		TF	FB	1.00	339.72	6.17	3000
NUYBI	FAF	RW34	MAP	TF	FO	0.30	339.69	5.33	
RW34	MAP	1432 MSL		CA			339.69		
1432 MSL		KRINK		DF	FB	1.00			
KRINK		CUCAC		TF	FO	1.00	293.54	12.46	3300

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW34

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3300 DIRECT KRINK AND ON TRACK 293.54 TO CUCAC AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD S AFUNI, RT, 339.72 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 339.69

FAF: NUYBI

DIST FAF TO MAP: 5.33

DIST FAF TO THLD: 5.33

4. MIN ALT: AFUNI 3000, NUYBI 3000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.48

GS ANT:

6. MIN GP INCPT: 3000

GP ALT AT FAF : NUYBI

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 46.4

8. MSA FROM: RW34 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING AITKIN ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AITKIN ALTIMETER SETTING: INCREASE LPV DA TO 1484, LNAV/VNAV DA TO 1636 AND LNAV/VNAV VISIBILITY TO 1/4 SM ALL CATS: INCREASE ALL MDAS 60 FEET AND LNAV CATS C AND D VISIBILITY 1/4 SM.  
CHART NOTE: FOR INOPERATIVE ALS WHEN USING AITKIN ALTIMETER SETTING, INCREASE LNAV CAT D VISIBILITY TO 1 1/2 SM.

ADDITIONAL FLIGHT DATA:

CHART: R-4301.  
CHART CIRCLING ICON  
CHART VDP AT 1.01 NM TO RW34\*  
\*LNAV ONLY  
WAAS CHANNEL #70711  
REFERENCE PATH ID: W34A  
HOLD NW, RT, 124.75 INBOUND  
LTP HAE: 348.2 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	1432	1/2	200	1432	1/2	200	1432	1/2	200	1432	1/2	200			
LNAV/VNAV DA	1584	3/4	352	1584	3/4	352	1584	3/4	352	1584	3/4	352			
LNAV MDA	1620	1/2	388	1620	1/2	388	1620	5/8	388	1620	1	388			
CIRCLING	1760	1	528	1760	1	528	1760	1 1/2	528	1860	2	628			QUALITY 30 CHECKED



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBRD
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	462355.9115N
LTP/FTP LONGITUDE	0940739.4970W
LTP/FTP ELLIPSOIDAL HEIGHT	+03482
FPAP LATITUDE	462520.9300N
FPAP LONGITUDE	0940817.8835W
THRESHOLD CROSSING HEIGHT (TCH)	00046.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0584
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	9186300E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03756
FPAP ORTHOMETRIC HEIGHT	+03756

