

**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> SBU	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 34	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> BLUE EARTH	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1107	<u>TDZE</u> 1107	<u>SUPERSEDED</u> RNAV (GPS) RWY 34	<u>DATED</u> 03/31/2016	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2020
			<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 250/30 CW 070/30	NOPT	250/6 CW 070/6		3000
2. 250/6 CW 070/6		TRIGS	IF/IAF	2800
3. 070/30 CW 250/30		070/6 CW 250/6		3000
4. 070/6 CW 250/6		TRIGS	IF/IAF	2800

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>
TRIGS	IF/IAF	DOGGO		TF	FB	1.00	340.15	5.00	2700
DOGGO	FAF	NEEPS/2.10 NM TO RW34		TF	FB	0.30	340.12	2.79	
NEEPS/2.10 NM TO RW34		RW34	MAP	TF	FO	0.30	340.12	2.10	
RW34	MAP	1600 MSL		CA			340.12		1600
1600 MSL		TRIGS		DF	FO	1.00			2800

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW34

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 2800 DIRECT TRIGS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD S TRIGS, RT, 340.15 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	340.12	FAF:	DOGGO	DIST FAF TO MAP:	4.89	DIST FAF TO THLD:	4.89							
4.	MIN ALT: TRIGS 2800, DOGGO 2700, NEEPS/2.10 NM TO RW34 1800														
5.	DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	291 HAT:	0.80	GS ANT:							
6.	MIN GP INCPT: 2700		GP ALT AT PFAF: DOGGO 2700			OM:		MM:					IM:		
7.	GP ANGLE: 3.00		34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	35.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING NA TO RWYS 3 AND 21.
CHART NOTE: USE FRM ALTIMETER SETTING; WHEN NOT RECEIVED, USE FXY ALTIMETER SETTING AND INCREASE LPV DA TO 1443 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1593 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART MINNEAPOLIS CENTER FREQUENCY.
CHART FRM AWOS-3.
CHART CIRCLING ICON.

CHART FAS OBST: 1226 TREE 433327N/0940518W.
WAAS CHANNEL # 70339
REFERENCE PATH ID: W34A
LTP HAE: 309.1 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	1398	1	291	1398	1	291	1398	1	291		NA				
LNAV/VNAV DA	1548	1 3/8	441	1548	1 3/8	441	1548	1 3/8	441		NA				
LNAV MDA	1520	1	413	1520	1	413	1520	1 1/8	413		NA				
CIRCLING	1560	1	453	1580	1	473	1720	1 3/4	613		NA				



CHANGES - REASONS

1. TAA: CHANGED STRAIGHT-IN STEPDOWN ALTITUDE FOR 250/6 CW 070/6 AND 070/6 CW 250/6 FROM "2700" TO "2800" – NEW CONTROLLING OBSTACLE IDENTIFIED.
2. TERMINAL ROUTES: CHANGED IF/IAF SEGMENT RNP VALUE FROM "0.50" TO "1.00" - IAW 8260.58C TABLE 1-2-1.
3. TERMINAL ROUTES: CHANGE IF/IAF SEGMENT ALTITUDE FOR "2700" TO "2800" - NEW CONTROLLING OBSTACLE IDENTIFIED.
4. TERMINAL ROUTES: CHANGED FAF, FINAL STEPDOWN AND MAP SEGMENTS COURSE FROM "340.13" TO "340.12" – NEW TARGETS CALCULATED COURSE.
5. TERMINAL ROUTES: CHANGED CA LEG ALTITUDE FROM "1398 MSL" TO "1600 MSL" - HIGHEST ALTITUDE BASE ON ARPT ELEV + 400 FEET ROUNDED IAW 8260.58C.
6. TERMINAL ROUTES: CHANGED DF SEGMENT ALTITUDE FROM "2700" TO "2800" - NEW CONTROLLING OBSTACLE IDENTIFIED.
7. MISSED APPROACH INSTRUCTIONS: CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING LEFT TURN TO 2700 DIRECT TRIGS AND HOLD" TO "CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 2800 DIRECT TRIGS AND HOLD" – ADDED CLIMB TO ALTITUDE IAW 8260.58C AND NEW CONTROLLING OBSTACLE IDENTIFIED THAT INCREASED CLEARANCE LIMIT.
8. PROFILE LINE 2: CHANGED HOLDING ALTITUDE FROM "2700" TO "2800" - NEW CONTROLLING OBSTACLE IDENTIFIED.
9. PROFILE LINE 3: CHANGE FAC FROM "340.13" TO "340.12" - NEW TARGETS CALCULATED COURSE.
10. PROFILE LINE 4: CHANGED MIN ALTITUDE FOR TRIGS FROM "2700" TO "2800" - NEW CONTROLLING OBSTACLE IDENTIFIED.
11. PROFILE LINE 4: REMOVED "*" FROM "NEEPS/2.10 NM TO RW34 1800*" - NO LONGER REQUIRED IAW 8260-19J.
12. PROFILE LINE 7: ADDED 20:1 IS CLEAR - IAW 8260.19J.
13. PBN REQUIREMENTS NOTES: ADDED RNP APCH-GPS - IAW 8260.19J.
14. NOTES: CHANGED CHART NOTE FROM "USE FAIRMONT ALTIMETER SETTING; WHEN NOT RECEIVED, USE FOREST CITY ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS, LNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE" TO "USE FRM ALTIMETER SETTING; WHEN NOT RECEIVED, USE FXY ALTIMETER SETTING AND INCREASE LPV DA TO 1443 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1593 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C 1/4 SM" - IAW 8260.19J AND 8260.3E TABLE 3-3-1.
15. NOTES: REMOVED DME/DME RNP-0.3 NA AND "LNAV ONLY" - NO LONGER REQUIRED IAW 8260.19J.
16. NOTES: CHANGED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 34 HELECOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - IAW 8260.19J.
17. ADDITIONAL FLIGHT DATA: CHANGED NOTE FROM "CHART FAIRMONT MUNI AWOS-3" TO "CHART FRM AWOS-3" - IAW 8260.19J.
18. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "1219 TREE 433454N/0940556W" TO "1226 TREE 433327N/0940518W" - NEW CONTROLLING OBSTACLE IDENTIFIED.
19. MINIMUMS: CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM "1 1/2" TO "1 3/8" - IAW 8260.3E TABLE 3-3-1.
20. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM "AB13D5F2" TO "5BE385C5" - FPAP LAT/LOG CHANGED FROM "433646.5270N/0940605.2810W" TO "433646.5240N/0940605.2935W".

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZMP ARTCC, APT MGR

FLIGHT CHECKED BY

BRIAN P CARSON

Digitally signed by

ERIC N SUSKI

Oct 07, 2024

OFFICE

FPO

DATE

10/02/2024

DEVELOPED BY

ERIC N SUSKI (DEXTER SWEETING)

Digitally signed by

ERIC N SUSKI

Oct 07, 2024

OFFICE

AJV-A431

DATE

06/25/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by

ERIC N SUSKI

Oct 07, 2024

OFFICE

AJV-341

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSBU
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	433522.2210N
LTP/FTP LONGITUDE	0940525.5535W
LTP/FTP ELLIPSOIDAL HEIGHT	+03091
FPAP LATITUDE	433646.5240N
FPAP LONGITUDE	0940605.2935W
THRESHOLD CROSSING HEIGHT (TCH)	00035.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5BE385C5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03375
FPAP ORTHOMETRIC HEIGHT	+03375

