

**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> KEKS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 34	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> ENNIS	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 5433	<u>TDZE</u> 5370	<u>SUPERSEDED</u> RNAV (GPS) RWY 34	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/15/2016	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<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>
WAIDE	IAF	PUDIY		TF	FB	1.00	008.52	7.29	11600
PUDIY		OGHEP		TF	FB	1.00	008.56	3.43	10000
OGHEP	IF	KEEPO		TF	FB	1.00	354.27	5.82	8300
KEEPO		HIRSO		TF	FB	1.00	354.25	2.05	7700
HIRSO	FAF	CARGI/5.25 NM TO RW34		TF	FB	0.30	344.62	2.01	
CARGI/5.25 NM TO RW34		RW34	MAP	TF	FO	0.30	344.62	5.25	
RW34	MAP	6300 MSL		CA			344.62		6300
6300 MSL		BUVDE		DF	FB	1.00			
BUVDE		MDISN		TF	FO	1.00	000.22	9.17	9900

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW34

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 6300, THEN CLIMBING LEFT TURN TO 9900 DIRECT BUVDE AND ON TRACK 000.22 TO MDISN AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF)

2. PROFILE STARTS AT OGHEP

3. FAF:    344.62                      FAF: HIRSO                      DIST FAF TO MAP: 7.26                      DIST FAF TO THLD: 7.26

4. MIN ALT:    OGHEP 10000, KEEPO 8300, HIRSO 7700, CARGI/5.25 NM TO RW34 7060

5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      275 HAT: 0.80                      GS ANT:

6. MIN GP INCPT:    7700                      GP ALT AT FAF :    HIRSO 7700                      OM:                      MM:                      IM:

7. GP ANGLE:    3.00                      34:1: IS NOT CLEAR                      20:1: IS CLEAR                      TCH:    40.1

8. MSA FROM:    RW34 12600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: CIRCLING NA EAST OF RWY 16-34.  
CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: BARO-VNAV NA.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WAIDE ON V343 SOUTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 164.58 INBOUND.  
FAS OBST: 5780 AAO 451242N/1113749W.  
CHART VDP AT 2.59 NM TO RW34  
WAAS CHANNEL # 45539  
REFERENCE PATH ID: W34A  
CHART CIRCLING ICON.  
LTP HAE: 1620.3 M

MINIMUMS:

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

ALTERNATE: NA    ☐    CAT A, B 900-2, CAT C, D 900-2 1/2

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	5645	1	275	5645	1	275	5645	1	275	5645	1	275			
LNAV/VNAV DA	5952	1 3/4	582	5952	1 3/4	582	5952	1 3/4	582	5952	1 3/4	582			
LNAV MDA	6220	1	850	6220	1 1/4	850	6220	2 1/2	850	6220	2 1/2	850			
CIRCLING	6220	1	787	6220	1 1/4	787	6220	2 1/2	787	6220	2 1/2	787			



**CHANGES - REASONS**

1. ADDED NEW INTERMEDIATE STEPDOWN FIX KEEPO WITH ALTITUDE 8300 FT - PER ATC/FPT APPROVED PROCEDURE REDESIGN.
2. MOVED PFAF HIRSO FIX - ATC/FPT APPROVED PROCEDURE REDESIGN.
3. NEW SEGMENT OGHEP TO KEEPO COURSE/LENGTH 354.27/5.82 AND PFAF HIRSO MOVED SOUTH, NEW KEEPO TO HIRSO COURSE/LENGTH 324.25/2.05 - PER ATC/FPT APPROVED PROCEDURE REDESIGN.
4. RELOCATED STEPDOWN FIX CARGI WITH ALTITUDE LOWERED TO 6440 FT AND SHORTENED DISTANCE HIRSO TO CARGI FROM 3.46 NM TO 2.01 NM AND CARGI TO RWY 34/MAP LENGTHENED FROM 3.80 NM TO 5.25 NM - PER ATC/FPT APPROVED PROCEDURE REDESIGN.
5. RAISED LPV DA ALL CATS FROM 5644 TO 5645 - NEW SURVEY/AIRNAV DATA.
6. CHANGED LNAV/VNAV DA/HAT/VIS ALL CATS FROM 5950/581/2 1/4 SM TO 5952/582/1 3/4 SM - NEW EVALUATION AND SURVEY/AIRNAV DATA.
7. LOWERED LNAV MDA/HAT ALL CATS FROM 6240/871 TO 6220/850 - NEW EVALUATION AND SURVEY/AIRNAV DATA.
8. LOWERED CIRCLING ALL CATS MDA/HAA FROM 6240/817 TO 6220/787 - NEW EVALUATION AND HIGHER LNAV MINIMUMS.
9. LOWERED CIRCLING CAT A VISIBILITY FROM 1 1/4 SM TO 1 SM, CAT D VISIBILITY FOM 2 3/4 SM TO 2 1/2 SM - NEW EVALUATION.
10. ADDED "RNP APCH-GPS" TO PBN REQUIREMENTS NOTES - IAW 8260.19I 8-6-8(B)(2).
11. REMOVED CHART NOTE: "DME/DME RNP-0.3 NA" - IAW 8260.19I 4-6-10(E).
12. PROFILE SECTION, LINE 7, ADDED "34:1 IS NOT CLEAR" AND "20:1 IS CLEAR" - UPDATED SURVEY DATA AND 8260.19I REQUIREMENT.
13. CHANGED ADDITIONAL FLIGHT DATA FROM "CHART VDP AT 2.66 NM TO RW34" TO "CHART VDP 2.59 NM TO RW34" - NEW EVALUATION.
14. REMOVED BARO-VNAV NOTE TEMPERATURE LIMIT NOTE AND REPLACED WITH "BARO-VNAV NA" - PRECIPITOUS TERRAIN IN FINAL.
15. ADDED CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - 34:1 PENETRATIONS DOCUMENTED, NEW EVALUATION.
16. FAS DATA BLOCK INFORMATION CHANGES: LTP/FTP LAT/LONG CHANGED FROM 45155.1585N/1113853.1270W TO 451555.1655N//1113852.9555W, FPAP LAT/LONG CHANGED FROM 451724.0885/1113900.5900W TO 451724.0955N/1113900.41550W, TCH CHANGED FROM 40.0 TO 40.1, LENGTH OFFSET FROM 0744 TO 0432 AND RESULTANT CRC REMAINDER CODE CHANGED FROM 661CB122 TO 5A3E620F.
17. ADDED ADDITIONAL FLIGHT DATA "FAS OBST: 5780 AAO 451242N/1113749W" - LNAV CONTROLLING OBSTACLE, NEW EVALUATION.
18. REMOVED FROM ALTERNATE MINIMUMS "NA WHEN LOCAL WEATHER NOT AVAILABLE" - NO BACKUP ALTIMETER SETTING AVAILABLE.
19. CHANGED MISSED APPROACH FROM "CLIMB TO 11900 DIRECT BUVDE AND ON TRACK 000.22 TO MDISN AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11900" TO "CLIMB TO 6300, THEN CLIMBING LEFT TURN TO 9900 DIRECT BUVDE AND ON TRACK 000.22 TO MDISN AND HOLD", LOWERED HOLDING ALTITUDE FROM 11900 TO 9900 FT - ALLOWED CLIMB-IN-HOLD TO BE ELIMINATED, MAINTAINED SAME HOLDING FIX, MISSED APPROACH FLIGHT PATH AND MINIMUMS, FPT/ATC APPROVED.

**COORDINATED WITH:**A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZLC, AMGR.**FLIGHT CHECKED BY**

SCOTT A THOMPSON

Digitally signed by

**JON DENTON**

Apr 23, 2021

**OFFICE**

FICO

**DATE**

04/07/2021

**DEVELOPED BY**

JON DENTON (GORDON LEMON)

Digitally signed by

**JON DENTON**

Apr 23, 2021

**OFFICE**

AJV-A432

**DATE**

01/04/2021

**APPROVED BY**

LONNIE EVERHART

Digitally signed by

**JON DENTON**

Apr 23, 2021

**OFFICE**

AJV-A430

**DATE****TITLE**  
MANAGERQUALITY  
16  
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEKS
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	451555.1655N
LTP/FTP LONGITUDE	1113852.9555W
LTP/FTP ELLIPSOIDAL HEIGHT	+16203
FPAP LATITUDE	451724.0955N
FPAP LONGITUDE	1113900.4155W
THRESHOLD CROSSING HEIGHT (TCH)	00040.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0432
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5A3E620F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+16303
FPAP ORTHOMETRIC HEIGHT	+16303

