

**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> 7S0 | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 34 | <u>ORIGINAL/AMENDMENT</u> 1B | <u>CITY</u> RONAN | <u>STATE</u> MT | |
| <u>AIRPORT ELEVATION</u> 3086 | <u>TDZE</u> 3081 | <u>SUPERSEDED</u> RNAV (GPS) RWY 34 | <u>ORIGINAL/AMENDMENT</u> 1A | <u>DATED</u> 07/24/2014 | <u>MAG VAR</u> 15E |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | <u>EPOCH YEAR</u> 2005 |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| HANIM | | NALSE | | TF | FB | 1.00 | 116.45 | 15.96 | 7900 |
| ARLEE | IAF | LAVBE | | TF | FB | 1.00 | 344.72 | 9.19 | 7200 |
| NALSE | IAF | LAVBE | | TF | FB | 1.00 | 074.88 | 5.00 | 7200 |
| LAVBE | IF | JAKBA | | TF | FB | 1.00 | 344.97 | 7.58 | 5800 |
| JAKBA | FAF | OBTOW/2.50 NM TO RW34 | | TF | FB | 0.30 | 344.97 | 5.92 | |
| OBTOW/2.50 NM TO RW34 | | RW34 | MAP | TF | FO | 0.30 | 344.97 | 2.50 | |
| RW34 | MAP | 3438 MSL | | CA | | | 344.97 | | |
| 3438 MSL | | PEKBE | | DF | FB | 1.00 | | | |
| PEKBE | | QATQI | | TF | FB | 1.00 | 255.00 | 7.00 | |
| QATQI | | HANIM | | TF | FO | 1.00 | 208.53 | 14.34 | 13000 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW34

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 13000 DIRECT PEKBE AND ON TRACK 255.00 TO QATQI AND ON TRACK 208.53 TO HANIM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 13000

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

| | | | | | |
|---|-----------------|----------------|-----------------------|------------------------|---------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. PROFILE STARTS AT LAVBE | | | | | |
| 3. FAC: | 344.97 | FAF: JAKBA | DIST FAF TO MAP: 8.42 | DIST FAF TO THLD: 8.42 | |
| 4. MIN ALT: LAVBE 7200, JAKBA 5800, OBTOV/2.50 NM TO RW34 3900* | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 357 HAT: 1.00 | GS ANT: |
| 6. MIN GP INCPT: 5800 | GP ALT AT FAF : | JAKBA 5800 | OM: | MM: | IM: |
| 7. GP ANGLE: 3.00 | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 40.0 | | |
| 8. MSA FROM: RW34 11100 | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA WHEN USING MISSOULA ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 *LNAV ONLY
 CHART NOTE: CIRCLING NA E OF RWY 16-34
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARLEE ON V231 SOUTHBOUND
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HANIM ON V120 WESTBOUND
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MISSOULA ALTIMETER SETTING AND INCREASE LPV DA TO 3545 AND ALL VISIBILITIES 3/8 SM, LNAV/VNAV DA TO 3545 AND ALL VISIBILITIES 3/8 SM; AND INCREASE ALL MDAS 120 FEET.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 253.58 INBOUND.
 CHART FAS OBST: 3204 ANTENNA 473057N/1140542W.
 WAAS CHANNEL # 86614
 REFERENCE PATH ID: W34A
 CHART CIRCLING ICON.
 LTP HAE: 923.3 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 | 3438 | 1 | 357 | 3438 | 1 | 357 | | NA | | | NA | | | | | |
| LNAV/VNAV DA | 3438 | 1 1/4 | 357 | 3438 | 1 1/4 | 357 | | NA | | | NA | | | | | |
| LNAV MDA | 3520 | 1 | 439 | 3520 | 1 | 439 | | NA | | | NA | | | | | |
| CIRCLING | 3560 | 1 | 474 | 3560 | 1 | 474 | | NA | | | NA | | | | | |

CHANGES - REASONS

- ADDED 20:1 IS CLEAR - NO PENETRATIONS.
- REMOVED CHART NOTE: USE MISSOULA ALTIMETER SETTING; WHEN NOT RECEIVED, PROCEDURE NA - LOCAL WEATHER AVAILABLE.
- FAS DATA LTP LAT/LONG CHANGED FROM 473338.1385N/1140603.8390W TO 473338.1605N/1140603.9370W - NEW SUREVEY IN AIRNAV.
- FAS DATA FPAP LAT/LONG UPDATED FROM 473338.1385N/1140603.8390W TO 473507.2105N/1140603.9140W - RECOMPUTED IN TARGETS.
- CRC REMAINDER CHANGED FROM 82625D50 TO D1215D3C- CHANGES IN FAS DATA.
- ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECIEVED, USE MISSOULA ALTIMETER SETTING AND INCREASE LPV DA TO 3545 AND ALL VISIBILITIES 3/8 SM, LNAV/VNAV DA TO 3545 AND ALL VISIBILITIES 3/8 SM; AND INCREASE ALL MDAS 120 FEET.- PRIMARY AND BACKUP ALTIMETER SOURCES AVAILABLE.
- UPDATED RNP VALUES ON HANIM TO NALSE FROM 2.00 TO 1.00, BOTH LAVBE TO JAKBA SEGMENTS FROM 0.50 TO 1.00 AND ADDED 1.00 TO MISSED LEGS 3436 TO PEKBE AND PEKBE TO QATQI - 8260.58A TABLE 1-2-1.
- ADDED MISSED APPROACH DISTANCES PEKBE TO QATAI 7.00 NM AND QATQI TO HANIM 14.34 NM. 8260.19H 8-6-6.
- ADDED RNP APCH TO PBN REQUIREMENTS NOTES AND REMOVED CHART NOTE: DME/DME RNP 0.3 NA - 8260.19H 8-6-8 B (1).
- UPDATED CHART PROFILE NOTE FROM VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO VGSI AND RNAV GLIDEPATH ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - 8260.19H 8-9-6 M.
- REMOVED ADDITIONAL FLIGHT DATA CHART MISSOULA ASOS - LOCAL WEATHER AVAILABLE.
- MISSED APPROACH CA ALTITUDE INCREASED FROM 3436 TO 3438 - NEW FINAL CONTROLLER RAISES MINIMUM ALTITUDE.
- UPDATED FAS OBSTACLE FROM CHART FAS OBST: 3149 TREE 473333N/1140558W TO FAS OBST: 3204 ANTENNA 47305N/1140521W- NEW LNAV CONTROLLER.
- REMOVED CHART NOTE: BARO-VNAV NA AND ADDED CHART NOTE: BARO-VNAV NA WHEN MISSOULA ALTIMETER SETTING- LOCAL WEATHER NOW AVAILABLE.
- ADDED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -21C OR ABOVE 54C - 8260.19H 8-6-9 S.
- UPDATED LPV VISIBILITY FROM 1 1/4 TO 1 - NEW CONTROLLING OBSTACLE AND VIS CHECK RESULTS.
- ADDED CHART CIRCLING ICON - NEW CIRCLING APPLIED.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: AMGR

Digitally signed by

FLIGHT CHECKED BY
SCOTT A THOMPSON

JON DENTON **OFFICE**
Dec 07, 2020 FICO

DATE
11/29/2020

DEVELOPED BY
WARDELL HENNING (CASEY HILL)

Digitally signed by
JON DENTON
Dec 07, 2020

OFFICE
AJV-A422

DATE
05/05/2020

APPROVED BY
LONNIE EVERHART

Digitally signed by
JON DENTON
Dec 07, 2020

OFFICE
AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | 7S0 |
| RUNWAY | RW34 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W34A |
| LTP/FTP LATITUDE | 473338.1605N |
| LTP/FTP LONGITUDE | 1140603.8370W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09233 |
| FPAP LATITUDE | 473507.2105N |
| FPAP LONGITUDE | 1140603.9140W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00040.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1288 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| | |
| CRC REMAINDER | 9FD54CFA |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K1 |
| LTP ORTHOMETRIC HEIGHT | +09386 |
| FPAP ORTHOMETRIC HEIGHT | +09386 |

