

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> DEN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 34L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> DENVER	<u>STATE</u> CO
<u>AIRPORT ELEVATION</u> 5434	<u>TDZE</u> 5327	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 34L	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 8E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MARCH 2026	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2015
				<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>
COGGG	IAF	KALHR		TF	FB	1.00	352.51	2.91	10000
KALHR	IF	MERKL		TF	FB	1.00	352.51	3.24	10000
MERKL		RNOLD		TF	FB	1.00	352.51	4.08	9000
RNOLD		TUGGL		TF	FB	1.00	352.51	4.61	7600
TUGGL		WINTR		TF	FB	1.00	352.51	2.07	7000
WINTR	PFAF	RW34L	MAP	TF	FO	0.30	352.51	5.10	
RW34L	MAP	5900 MSL		CA			352.51		5900
5900 MSL		HYGEN		DF	FO	1.00			11000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 11000 DIRECT HYGEN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- PROFILE STARTS AT KALHR
- FAC:** 352.51 **FAF:** WINTR **DIST FAF TO MAP:** **DIST FAF TO THLD:**
- MIN ALT:** KALHR 10000, MERKL 10000, RNOLD 9000, TUGGL 7600, WINTR 7000
- DIST TO THLD FROM OM:** 5.10 **MM:** **IM:** **150 HAT:** **260 HAT:** 0.65 **GS ANT:**
- MIN GP INCPT:** 7000 **GP ALT AT PFAF:** WINTR 7000 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 54.9
- MSA FROM:** RW34L 10200

QUALITY
34
CHECKED

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -26°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 4000.
CHART SPEED ICON IN PLANVIEW AT COGGG: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KALHR: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 309.00 INBOUND.
CHART MANDATORY 10000 AT COGGG.
CHART MANDATORY 10000 AT MERKL.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.10 DA	5587	2400	260	5587	2400	260	5587	2400	260	5587	2400	260			
RNP 0.20 DA	5720	3500	393	5720	3500	393	5720	3500	393	5720	3500	393			
RNP 0.30 DA	5782	4500	455	5782	4500	455	5782	4500	455	5782	4500	455			



CHANGES - REASONS

1. TERMINAL ROUTES ADDED LEG COGGG TO KALHR - ATC REQUEST TO MIRROR ILS.
2. MISSED APPROACH INSTRUCTIONS UPDATED FROM CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 10000 ON DIRECT HYGEN AND HOLD TO CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 11000 DIRECT HYGEN AND HOLD - ATC REQUEST TO RAISE HOLD AT HYGEN TO 11000.
3. PROFILE LINE 2 CHANGED FROM PROFILE STARTS AT WINTR TO PROFILE STARTS AT KALHR
3. NOTES MOVED GPS REQUIRED FROM NOTES TO PBN REQUIREMENTS NOTE CHANGED TO RNP AR APCH-GPS. AUTHORIZATION REQUIRED - IAW 8260.19J 8-6-8.
4. ADDITIONAL FLIGHT DATA ADDED CHART AT OR ABOVE 10000 AT COGGG - ATC REQUEST TO ADD SEGMENT TO MIRROR ILS
5. NOTES UPDATED FROM CHART NOTE FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25°C (-13°F) OR ABOVE 38°C (100°F) TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -26°C OR ABOVE 54°C - NEW 5 YEAR HISTORY FOR TEMP DATA.
6. NOTES UPDATD NOTE FROM CHART NOTE: FOR INOPERATIVE ALSF, INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 4500 AND RNP 0.20 ALL CATS VISIBILITY TO RVR 6000 AND RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 MILE TO CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.10 ALL CATS VISIBILITY TO RVR 4000 - IAW 8260.19K 8-6-12 D 3
7. NOTES UPDATED FROM CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO CHART PROFILE NOTE VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - IAW 8260.19K 8-6-10 M 1.
8. ADDITIONAL FLIGHT DATA REMOVED #TCH 5377.0 (DO NOT CHART), ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER1: F, ROUTE TYPE QUALIFIER2: S - NO LONGER REQUIRED.- IAW 8260.19K 8-6-7 B 3 (A).
9. NOES ADDED CHART SPEED ICON IN PLANVIEW AT COGGG: MAX 210 KIAS - SEGMENT ADDED TO MIRROR ILS.

10/08/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/15/25.

1. PROFILE LINE 3 REMOVED TUGGL AS FAF.
2. PROFILE LINE 7 ADDED 34:1 IS CLEAR AND 20:1 IS CLEAR.
3. ADDED CHART SPEED ICON IN PLANVIEW AT KALHR: MAX 210 KIAS.

COORDINATED WITH:

A4A

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ALPA

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AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER:ATA

FLIGHT CHECKED BY

NATHAN J CHOTT

Digitally signed by

ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJF

DATE

12/18/2025

DEVELOPED BY

JOSHUA DUGAN

Digitally signed by

ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJV-A4

DATE

07/15/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Jan 14, 2026

OFFICE

AJV-A4

DATE

02/12/2026

TITLE

MANAGER