

**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> KDEN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 34L	<u>ORIGINAL/AMENDMENT</u> 2D	<u>CITY</u> DENVER	<u>STATE</u> CO		
<u>AIRPORT ELEVATION</u> 5434	<u>TDZE</u> 5327	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 34L	<u>ORIGINAL/AMENDMENT</u> 2C	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
KALHR	IF	MERKL		TF	FB	1.00	352.51	3.24	10000
MERKL		RNOLD		TF	FB	1.00	352.51	4.08	9000
RNOLD		WINTR		TF	FB	1.00	352.51	6.68	7000
WINTR	FAF	WOGIN/2.20 NM TO RW34L		TF	FB	0.30	352.51	2.90	
WOGIN/2.20 NM TO RW34L		RW34L	MAP	TF	FO	0.30	352.51	2.20	
RW34L	MAP	5900 MSL		CA			352.51		5900
5900 MSL		HYGEN		DF	FO	1.00			10000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW34L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 10000 DIRECT HYGEN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- 2. PROFILE STARTS AT KALHR
- 3. FAC: 352.51 FAF: WINTR DIST FAF TO MAP: 5.10 DIST FAF TO THLD: 5.10
- 4. MIN ALT: KALHR 10000, MERKL 10000, RNOLD 9000, WINTR 7000, WOGIN/2.20 NM TO RW34L 6060
- 5. DIST TO THLD FROM FAF: 5.10 MM: IM: 150 HAT: 200 HAT: 0.47 GS ANT:
- 6. MIN GP INCPT: 7000 GP ALT AT FAF: WINTR 7000 OM: MM: IM:
- 7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 50.0
- 8. MSA FROM: RW34L 10200

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
 CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
 CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 35L/R.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 309.00 INBOUND.
 CHART FAS OBST: 5463 POLE (08-022457) 394950N/1044234W.
 CHART VDP AT 1.01 NM TO RW34L.
 WAAS CHANNEL # 45619
 REFERENCE PATH ID: W34A
 LTP HAE: 1605.6 M

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
LPV DA	5527	1800	200	5527	1800	200	5527	1800	200	5527	1800	200			
LNAV/VNAV DA	5663	2600	336	5663	2600	336	5663	2600	336	5663	2600	336			
LNAV MDA	5720	2400	393	5720	2400	393	5720	3500	393	5720	3500	393			



CHANGES - REASONS

1. INCORPORATED P-NOTAM FDC 7/5922 FOR 2C - 8260.3D, NEW EVALUATION AND TABLE 3-3-1.
2. REMOVED DISTANCE TO THLD FROM 200 HAT: 0.47 NM AND ADDED TO PROFILE VIEW - NEW FORMAT.
3. PROFILE LINE 6: ADDED 20:1 IS CLEAR - CONFIRMED CLEAR BY TARGETS EVALUATION; 8260.19I, 8-6-7.G(3)(A).
4. REMOVED CHART NOTE DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE RNP APCH - GPS - UPDATED IAW 8260.19I, 8-6-8.B(1).
5. REMOVED CHART NOTE RADAR REQUIRED - 8260.19I, 8-6-9.G.
6. UPDATED CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13) OR ABOVE 48C TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C - 8260.19I, 8-6-9.R AND HISTORICAL CALCULATIONS 2016 TO 2020.
7. CHANGED CHART NOTE FROM "USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS" TO "USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS" -- UPDATED PER 8620.19H, 8-6-11.O(8)(D).
8. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM 5459 TREE 394839N/1044229W TO 5463 POLE (08-022457) 394950N/1044234W - NEW EVALUATION AND NEW CONTROLLING OBSTACLE.
9. ADDITIONAL FLIGHT DATA: CHANGED VDP LOCATION FROM 0.95 NM TO 1.01 NM - ADJUSTMENT FOUND DURING PROCEDURE AMENDMENT.
10. ADDITIONAL FLIGHT DATA: REMOVED *LNAV ONLY - NO LONGER REQUIRED IAW 8260.19I 8-6-10(M).
11. CHANGED LNAV/VNAV ALL CATS DA/HAT FROM 5660/333 TO 5663/336 - NEW EVALUATION AND NEW MISSED APPROACH ADJUSTMENT, UPDATED SURVEY HEIGHT ON CONTROL TOWER FROM 5701 MSL TO 5704 MSL.
12. CHANGED LNAV/VNAV VISIBILITY FROM 3000 TO 2600 - 8260.3D, NEW EVALUATION AND TABLE 3-3-1.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAL** **NBAA** **OTHER:** ZDV, DEN ATCT, DEN APP CON, CO AERO, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-1000) MEMO, DATED JUNE 4, 2020,
SUBJECT: FLIGHT INSPECTION OF NEW CONTROLLING OBSTACLES.

DEVELOPED BY

JASON KRETSCHMER (RAYMOND JOHNSON)

Digitally signed by
JASON KRETSCHMER
Jul 12, 2021

APPROVED BY

MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER
Jul 12, 2021

OFFICE

Digitally signed by

DATE

JASON KRETSCHMER

Jul 12, 2021

OFFICE
AJV-A421

DATE
05/13/2021

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	KDEN
RUNWAY	RW34L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	395106.7925N
LTP/FTP LONGITUDE	1044147.7165W
LTP/FTP ELLIPSOIDAL HEIGHT	+16056
FPAP LATITUDE	395344.8700N
FPAP LONGITUDE	1044145.8900W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	135.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	04DB39C6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+16237
FPAP ORTHOMETRIC HEIGHT	+16237

