

**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> DEN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 16R	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> DENVER	<u>STATE</u> CO
<u>AIRPORT ELEVATION</u> 5434	<u>TDZE</u> 5326	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 16R	<u>DATED</u> 08/07/2025	<u>MAG VAR</u> 8E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> 2	<u>EPOCH YEAR</u> 2015	<u>CANCEL/SUSPEND</u>
	<u>ACTUAL EFFECTIVE DATE</u> 19 MARCH 2026	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE		

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>
KIPPR	IAF	HAYLY		TF	FB	1.00	248.52	4.63	12000
HAYLY		PECIY		TF	FB	1.00	214.81	3.79	11500
TSHNR	IAF	PECIY		TF	FB	1.00	153.97	4.46	11500
PECIY		BUDUJ		TF	FB	1.00	169.60	2.36	10600
BUDUJ		ZOREG		TF	FB	1.00	169.60	2.41	10000
KAILE	IAF	OGINE		TF	FB	1.00	116.15	1.90	10400
OGINE		ZOREG		TF	FB	1.00	150.18	2.58	10000
ZOREG		HAROS		TF	FB	1.00	169.60	2.65	10000
HAROS	IF	BRDOR		TF	FB	1.00	169.44	3.96	9000
BRDOR		FESKA		TF	FB	1.00	169.71	3.74	8000
FESKA		ORAGE		TF	FB	1.00	169.05	1.84	7300
ORAGE		APASE		TF	FB	1.00	169.34	1.31	7000
APASE	FAF	UJNOR	MAP	TF	FO	0.30	169.51	5.10	
UJNOR	MAP	5900 MSL		CA			169.51		5900
5900 MSL		CANRO		DF	FB	1.00			
CANRO		ZOOKS		TF	FO	1.00	224.38	11.83	10000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: UJNOR

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CANRO AND ON TRACK 224.38 TO ZOOKS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
37
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT ORAGE														
3.	FAC:	169.51	FAF:	APASE	DIST FAF TO MAP:	5.10	DIST FAF TO THLD:	5.10							
4.	MIN ALT:	ORAGE 7300, APASE 7000													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.62	GS ANT:				
6.	MIN GP INCPT:	7000	GP ALT AT PFAF:	APASE 7000					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.1							
8.	MSA FROM:	RW16R 10200													

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000.
CHART SPEED ICON IN PLANVIEW AT KIPPR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT TSHNR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KAILE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT HAROS: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 229.00 INBOUND.
CHART FAS OBST: 5391 TOWER (08-022496) 395340N/1044118W.
CHART VDP AT 0.84 NM TO UJNOR.
WAAS CHANNEL # 53546
REFERENCE PATH ID: W16B
CHART MANDATORY 12000 AT KIPPR.
CHART MANDATORY 13000 AT TSHNR.
CHART MANDATORY 11000 AT KAILE.
FAC CROSSES RWY C/L EXTENDED 2606 FT FROM THLD.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 3.00 DEGREES.
FTP HAE: 1604 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	HAT/HAA
LPV DA	5576	2400	250	5576	2400	250	5576	2400	250	5576	2400	250			
LNAV/VNAV DA	5582	2400	256	5582	2400	256	5582	2400	256	5582	2400	256			
LNAV MDA	5660	2400	334	5660	2400	334	5660	2600	334	5660	2600	334			

QUALITY
37
CHECKED

CHANGES - REASONS

1. REPLACED MISSED APPROACH FROM "CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT BINBE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 10000" WITH "CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CANRO AND ON TRACK 224.38 TO ZOOKS AND HOLD" WITH CHANGES REFLECTED IN TERMINAL ROUTES - REQUESTED BY ATC/FPT TO MEET TRIPLE WIDELY SPACED SIMULTANEOUS INDEPENDENT PARALLEL INSTRUMENT APPROACH (SIPIA) OPERATIONS CRITERIA.
2. PROFILE LINE 7: CHANGED TCH FROM 55.0 TO 55.1 - TO MATCH ILS OR LOC RWY 16R DESIGN TCH.
3. CHANGED MISSED HOLDING FROM "HOLD E, RT, 257.46 INBOUND" TO "HOLD NE, RT, 229.00 INBOUND" IN ADDITIONAL FLIGHT DATA - NEW MISSED APPROACH CLEARANCE LIMIT AND HOLD PATTERN.
4. REMOVED CLFFF-ORAGE INTERMEDIATE LEG FROM TERMINAL ROUTES - REQUESTED BY ATC/FPT DUE TO NUMEROUS TCAS ALERTS EXPERIENCED WHEN FLOWN.
5. REMOVED PROFILE NOTE "SEE PLANVIEW FOR MULTIPLE IF LOCATIONS" - NO LONGER APPLIES WITH REMOVAL OF CLFFF INTERMEDIATE SEGMENT.
6. REMOVED NOTES "CHART SPEED ICON IN PLANVIEW AT CLFFF: MAX 210 KIAS" AND "CHART SPEED ICON IN PLANVIEW AT WAVAP: MAX 170 KIAS" - NO LONGER REQUIRED.
7. REMOVED "CHART MANDATORY 11000 AT CLFFF" FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
8. FAS DATA: FTP LAT/LONG CHANGED FROM 395344.8900N/1044144.1500W TO 395344.8920N/1044144.1500W - NEW TARGETS SOFTWARE ASSESSMENT MOVED FTP 23 FT.
9. FAS DATA: CHANGED TCH 55.0 TO 55.1 - TO MATCH ILS OR LOC RWY 16R DESIGN TCH.
10. FAS DATA: CRC REMAINDER CHANGED FROM E28A6FFA TO DB024A27 - RESULT OF TCH CHANGE.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

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NBAA

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OTHER: ZDV, DEN ATCT, DEN APP CON, AMGR

FLIGHT CHECKED BY

NATHAN J CHOTT

Digitally signed by

RAKE MCGRAW

Jan 15, 2026

OFFICE

AJF

DATE

12/17/2025

DEVELOPED BY

RALPH DUMAR

Digitally signed by

RAKE MCGRAW

Jan 15, 2026

OFFICE

AJV-A422

DATE

10/07/2025

APPROVED BY

BEV L BORDY

Digitally signed by

RAKE MCGRAW

Jan 15, 2026

OFFICE

AJV-A420

DATE

02/12/2026

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDEN
RUNWAY	RW16R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16B
LTP/FTP LATITUDE	395344.8920N
LTP/FTP LONGITUDE	1044144.1550W
LTP/FTP ELLIPSOIDAL HEIGHT	+16040
FPAP LATITUDE	395215.8065N
FPAP LONGITUDE	1044139.1225W
THRESHOLD CROSSING HEIGHT (TCH)	00055.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	C29A74E8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+16221
FPAP ORTHOMETRIC HEIGHT	+16221

