

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> ILS OR LOC RWY 16R	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> DENVER	<u>STATE</u> CO
<u>AIRPORT ELEVATION</u> 5434	<u>TDZE</u> 5326	<u>SUPERSEDED</u> ILS OR LOC RWY 16R	<u>DATED</u> 07/24/2014	<u>MAG VAR</u> 8E
<u>FACILITY</u> I-DQQ	<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>
TSHNR	IAF	SKIMJ		TF	FB	1.00	137.69	4.58	11500
KIPPR	IAF	HAYLY		TF	FB	1.00	248.52	4.63	12000
HAYLY		SKIMJ		TF	FB	1.00	202.64	2.70	11500
SKIMJ		SEEUU		TF	FB	1.00	172.51	3.00	10600
SEEUU		SHRED/I-DQQ 18.49 DME/RADAR		TF	FB	1.00	172.51	2.13	10000
KAILE	IAF	SHROM		TF	FB	1.00	105.70	2.80	10400
SHROM		SHRED/I-DQQ 18.49 DME/RADAR		TF	FB	1.00	149.99	2.45	10000
SHRED/I-DQQ 18.49 DME/RADAR	IAF	SAKIC/I-DQQ 15.76 DME/RADAR					172.51 (I-DQQ)	2.73	10000
SAKIC/I-DQQ 15.76 DME/RADAR	IF	NEWLN/I-DQQ 11.87 DME/RADAR					172.51 (I-DQQ)	3.89	9000
NEWLN/I-DQQ 11.87 DME/RADAR		MERYN/I-DQQ 8.07 DME/RADAR					172.51 (I-DQQ)	3.80	8000
MERYN/I-DQQ 8.07 DME/RADAR		JETSN/I-DQQ 4.92 DME/RADAR					172.51 (I-DQQ)	3.15	7000

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.10 NM AFTER JETSN/I-DQQ 4.92 DME/RADAR OR AT I-DQQ 0.19 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 ON HEADING 172.51 THEN CLIMBING RIGHT TURN TO 10000 ON DVV VORTAC R-229 TO ZOOKS INT/DVV 25.76 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT SHRED/I-DQQ 18.49 DME/RADAR					
3.	FAC:	172.51	FAF:	JETSN/I-DQQ 4.92 DME/RADAR	DIST FAF TO MAP:	5.10
4.	MIN ALT:	SHRED/I-DQQ 18.49 DME/RADAR 10000, SAKIC/I-DQQ 15.76 DME/RADAR 10000, NEWLN/I-DQQ 11.87 DME/RADAR 9000, MERYN/I-DQQ 8.07 DME/RADAR 8000, JETSN/I-DQQ 4.92 DME/RADAR 7000				
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	1020
6.	MIN GS INCPT:	7000	GS ALT AT PFAF:	JETSN/I-DQQ 4.92 DME/RADAR 7000	OM:	MM:
7.	GS ANGLE:	3.00	34:1:	20:1:	TCH:	55.1
8.	MSA FROM:	DVV VORTAC 8100				

PBN REQUIREMENTS NOTE:

RNP APCH-GPS. FROM KAILE, KIPPR OR TSHNR.

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 16L CAT C/D VISIBILITY TO RVR 4500.
CHART SPEED ICON IN PLANVIEW AT TSHNR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KIPPR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KAILE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT SHRED: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT SAKIC: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE I-DQQ DME ANTENNA.
HOLD NE, RT, 229.10 INBOUND.
FAS OBST: 5374 AAO 395712N/1044109W.
CHART VDP AT 0.60 DME.
DISTANCE VDP TO THLD 0.77 NM.
CHART MANDATORY 13000 AT TSHNR.
CHART MANDATORY 12000 AT KIPPR.
CHART MANDATORY 10000 AT SHRED.
CHART MANDATORY 11000 AT KAILE.
CHART MANDATORY 10000 AT SAKIC.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: 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
S-ILS 16R	5526	1800	200	5526	1800	200	5526	1800	200	5526	1800	200			
S-LOC 16R	5640	2400	314	5640	2400	314	5640	2400	314	5640	2400	314			

QUALITY
37
CHECKED

CHANGES - REASONS

1. ADDED RNP 1.00 TO SEGMENTS TSHNR-SKIMJ, KIPPR-HAYLY, HAYLY-SKIMJ, SKIMJ-SEEYU, SEEYU-SHRED, KAILE-SHROM, AND SHROM-SHRED IN TERMINAL ROUTES - REQUIRED FOR RNAV LEGS PER 8260.19J PARA. 8-6-4A(6)(B).
2. ADDED FB (FLY BY) TO SEGMENTS KIPPR-HAYLY, SKIMJ-SEEYU, SEEYU-SHRED, AND SHROM-SHRED IN TERMINAL ROUTES - REQUIRED FOR RNAV LEGS PER 8260.19J PARA. 8-6-4A(6)(A).
3. REMOVED TF FROM LEG TYPE COLUMN FOR SEGMENTS SHRED-SAKIC, NEWLN-MERYN, AND MERYN-JETSN - RNAV LEG TYPE NOT USED ON CONVENTIONAL SEGMENTS.
4. REPLACED PRIMARY MISSED APPROACH FROM "CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 12000 ON HEADING 218 AND ON FQF VORTAC R-254 TO BREWS/FQF 26.02 DME AND HOLD" WITH "CLIMB TO 5900 ON HEADING 172.51 THEN CLIMBING RIGHT TURN TO 10000 ON DVV VORTAC R-229 TO ZOOKS INT/DVV 25.76 DME AND HOLD" - REQUESTED BY ATC/FPT TO MEET TRIPLE WIDELY SPACED SIMULTANEOUS INDEPENDENT PARALLEL INSTRUMENT APPROACH (SIPIA) OPERATIONS CRITERIA.
5. REMOVED ALTERNATE MISSED APPROACH - NO LONGER REQUIRED PER ATC/FPT.
6. PROFILE LINE 8: CHANGED MSA ORIGIN FROM DEN VOR/DME TO DVV VORTAC AND LOWERED ALTITUDE FROM 9200 TO 8100 - DEN VOR/DME SCHEDULED FOR DECOMMISSIONING AT A FUTURE DATE.
7. ADDED PBN REQUIREMENTS NOTE "RNP APCH - GPS. FROM KAILE, KIPPR OR TSHNR." - REQUIRED FOR RNAV INITIAL SEGMENTS PER 8260.19J PARA. 8-6-8D(5)(A)1.
8. ADDED EQUIPMENT REQUIREMENTS NOTE "DME OR RADAR REQUIRED." - DME REQUIRED TO FLY INTERMEDIATE SEGMENT AND MISSED APPROACH AND RADAR IS AVAILABLE PER 8260.19J PARA. 8-6-9A(2)(A) AND (3)(B).
9. REMOVED NOTES "DME REQUIRED" AND PLANVIEW NOTE "RADAR OR GPS REQUIRED" - REPLACED WITH PBN AND EQUIPMENT REQUIREMENTS NOTES.
10. CHANGED PROFILE NOTE FROM "VGSI AND ILS GLIDEPATH NOT COINCIDENT" TO "VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - PER 8260.19J PARA. 8-6-10M(1).
11. CHANGED NOTE "FOR INOPERATIVE MALSR, INCREASE S-LOC CAT C/D VISIBILITY TO RVR 4500" TO "FOR INOPERATIVE ALS, INCREASE S-LOC CAT C/D VISIBILITY TO RVR 4500" - PER 8260.19J PARA. 8-6-12O(3)(D).
12. REMOVED "CHART PLANVIEW NOTES AT TSHNR 210 KIAS, AT KIPPR 210 KIAS", AND "AT KAILE 210 KIAS" - REPLACED BY CHART SPEED ICON IN PLANVIEW NOTES.
13. REMOVED "CHART SPEED ICON IN PLANVIEW NOTES AT TSHNR, KIPPR, HAYLY, SKIMJ, SEEYU, KAILE, SHRED, NEWLN AND MERYN: MAX 210 KIAS" - REDUNDANT AND NOT REQUIRED.
14. REMOVED "CHART LOC RWY 17L AND 17R" FROM ADDITIONAL FLIGHT DATA - NO LONGER A CHARTING SPECIFICATION.
15. CHANGED MISSED HOLDING FROM "HOLD E, RT, 254.46 INBOUND" TO "HOLD NE, RT, 229.10 INBOUND" AND REMOVED "CHART FQF R-254 AT BREWS" IN ADDITIONAL FLIGHT DATA - MISSED APPROACH CLEARANCE LIMIT MOVED FROM BREWS TO ZOOKS AND ORIGINATING NAVAID HOLDING RADIAL CHANGED FROM FQF VORTAC R-254 TO DVV VORTAC R-229.
16. CHANGED FAS OBST FROM 5379 AAO 395709N/1044109W TO 5374 AAO 395712N/1044109W ADDITIONAL FLIGHT DATA - NEW TARGETS SOFTWARE EVALUATION.
17. VDP DISTANCE FROM THLD/DME CHANGED FROM 0.78 NM/0.60 DME TO 0.77 NM/0.61 DME IN ADDITIONAL FLIGHT DATA - NEW TARGETS SOFTWARE EVALUATION CONFIRMED BY 8260.3J VDP CALCULATOR.
18. ADDED "CHART IN PROFILE I-DQQ DME ANTENNA" IN ADDITIONAL FLIGHT DATA - DME ANTENNA LOCATED ON FINAL 1013 FT/0.17 NM TO THLD.
19. REMOVED "CHART IN PLANVIEW: BREWS/DEN 25.87 DME" AND "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE BREWS/DEN 25.87 DME, LT, 240.68 INBOUND" IN ADDITIONAL FLIGHT DATA - NOT REQUIRED.
20. MOVED FIX SHROM 0.40 NM NORTHWEST AND LENGTHENED SHROM TO SHRED/I-DQQ 18.49 DME/RADAR SEGMENT FROM 2.05 NM TO 2.45 NM IN TERMINAL ROUTES - TO SUPPORT ATC VECTORS TO SHROM.
21. CHANGED VISUAL DESCENT POINT LOCATION FROM VDP AT 0.61 DME/VDP TO THLD 0.77 NM TO VDP AT 0.60 DME/VDP TO THLD 0.77 NM - UPDATED TARGETS SOFTWARE ASSESSMENT.
22. ADDED IAF IN FIX TYPE COLUMN FOR SHRED/I-DQQ 18.49 DME/RADAR IN TERMINAL ROUTES - PREVIOUSLY OMITTED AND PER 8260.19K PARA. 8-6-4A(1).
23. REMOVED PFAF FROM FIX TYPE COLUMN OF INTERMEDIATE STEPDOWN MERYN/I-DQQ 8.07 DME/RADAR TO JETSN/I-DQQ 4.92 DME/RADAR IN TERMINAL ROUTES - NOT REQUIRED.
24. CHANGED NOTE "SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 17L/R" TO "SIMULTANEOUS APPROACH AUTHORIZED" - PER 8260.19K PARA. 8-6-12O(8)(A).

COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

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

FLIGHT CHECKED BY

NATHAN J CHOTT

Digitally signed by

RAKE MCGRAW

OFFICE

DATE

Jan 15, 2026

AJF

12/17/2025

Digitally signed by

RAKE MCGRAW

OFFICE

DATE

Jan 15, 2026

AJV-A422

10/07/2025

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RALPH DUMAR

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TITLE

BEV L BORDY

Jan 15, 2026

AJV-A4

02/12/2026

MANAGER

