

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CLASH (RNAV)	FOUR	CLASH.CLASH4	THREE	12/31/2020	7 OCT 21

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
KIISS	KIISS.CLASH4	KIISS	KIISS						
			DYLLN	294.44	42.48	FL200			
			WAIYN	293.87	43.26	FL200			AT/ABOVE FL300
			LYNKN	293.84	10.79	FL200			
			CLASH	293.38	27.97	15000	7900		BETWEEN FL190 AND FL220
OATHE	OATHE.CLASH4	OATHE	OATHE						
			THINN	261.30	21.71	FL200			
			ININN	277.69	30.50	FL200			AT/ABOVE FL300
			LYNKN	277.38	14.61	FL200			
			CLASH	293.38	27.97	15000	7900		BETWEEN FL190 AND FL220

ARRIVAL ROUTE DESCRIPTION:

FROM CLASH ON TRACK 296.30/16.56 TO CROSS EVRLY BETWEEN 15000 AND FL200 AND AT 250 KIAS.

LANDING RWY 7, 8: FROM EVRLY ON TRACK 298.69/11.44 TO CROSS JURKY BETWEEN 15000 AND 17000, THEN ON TRACK 288.60/18.60 TO CROSS ROOTZ BETWEEN 13000 AND 15000 AND AT 250 KIAS, THEN ON TRACK 295.28/5.36 TO RPIDS, THEN ON TRACK 263.06/4.74 TO CROSS BBOOK AT 11000 AND AT 210 KIAS, THEN ON TRACK 263.06. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 16L, 17L/R: FROM EVRLY ON TRACK 298.69/11.44 TO CROSS JURKY BETWEEN 15000 AND 17000, THEN ON TRACK 300.23/17.19 TO CROSS JAAAM BETWEEN 13000 AND 15000 AND AT 250 KIAS, THEN ON TRACK 337.05/7.20 TO HUDPI, THEN ON TRACK 352.53/5.00 TO CROSS QWIKI AT 11000 AND AT 210 KIAS, THEN ON TRACK 352.53. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 16R: FROM EVRLY ON TRACK 298.69/11.44 TO CROSS JURKY BETWEEN 15000 AND 17000, THEN ON TRACK 288.60/18.60 TO CROSS ROOTZ BETWEEN 13000 AND 15000 AND AT 250 KIAS, THEN ON TRACK 295.28/5.36 TO RPIDS, THEN ON TRACK 294.83/10.63 TO RDDVL, THEN ON TRACK 352.51/5.00 TO CROSS CLFFF AT 11000 AND AT 210 KIAS, THEN ON TRACK 352.51. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 25, 26: FROM EVRLY ON TRACK 293.69/8.21 TO CROSS ERVNN AT 14000, THEN ON TRACK 351.08/8.12 TO CROSS FIDLS AT 13000 AND AT 210 KIAS, THEN ON TRACK 351.08. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 34L/R, 35L: FROM EVRLY ON TRACK 259.50/13.01 TO CROSS RECRD AT OR ABOVE 13000, THEN ON TRACK 259.33/3.41 TO CROSS TWNSN BETWEEN 12000 AND 13000 AND AT 210 KIAS, THEN ON TRACK 259.31/4.01 TO CROSS PNBAL AT 11000, THEN ON TRACK 259.54/4.01 TO CROSS ROCCS AT OR ABOVE 10000, THEN ON TRACK 259.98/4.88 TO CROSS EBLR AT 9000 AND AT 210 KIAS, THEN ON TRACK 259.98. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 35R: FROM EVRLY ON TRACK 259.50/13.01 TO CROSS RECRD AT OR ABOVE 13000, THEN ON TRACK 259.33/3.41 TO CROSS TWNSN BETWEEN 12000 AND 13000 AND AT 210 KIAS, THEN ON TRACK 259.31/4.01 TO CROSS PNBAL AT 11000, THEN ON TRACK 259.54/4.01 TO CROSS ROCCS AT OR ABOVE 10000, THEN ON TRACK 297.99/4.00 TO CROSS PURRL AT 9000 AND AT 210 KIAS. EXPECT ILS OR LOC RWY 35R APPROACH.

PROCEDURAL DATA NOTES:

NOTE: TURBOJET AIRCRAFT ONLY

NOTE: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KIAS. MAINTAIN 280 KIAS UNTIL SLOWED BY STAR.

NOTE: DENVER CENTER WILL ISSUE "DESCEND VIA" CLEARANCE AND LANDING DIRECTION.

NOTE: EXPECT RUNWAY ASSIGNMENT ON INITIAL CONTACT WITH DENVER TRACON.

NOTE: LANDING NORTH SELECT RWY 35R TRANSITION.

NOTE: LANDING SOUTH SELECT RWY 17R TRANSITION.

NOTE: LANDING EAST SELECT RWY 7 TRANSITION.

NOTE: LANDING WEST SELECT RWY 26 TRANSITION.

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PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT CLASH: HOLD SE, LT, 293.38 INBOUND, 10 NM LEGS.

CHART HOLDING AT DYLLN: HOLD SE, LT, 294.44 INBOUND, 12 NM LEGS.

CHART HOLDING AT EVRLY: HOLD SE, LT, 296.30 INBOUND, 10 NM LEGS.

CHART IDOLL AND HOLDING AT IDOLL: HOLD SE, LT, 304.74 INBOUND, 11 NM LEGS.

CHART HOLDING AT ININN: HOLD E, LT, 277.69 INBOUND, 12 NM LEGS.

CHART HOLDING AT LYNKN: HOLD SE, RT, 293.84 INBOUND, 12 NM LEGS.

CHART HOLDING AT OATHE: HOLD E, RT, 261.30 INBOUND, 12 NM LEGS.

COMMUNICATIONS:

CHART: DENVER APP CON

CHART: DENVER TOWER

AIRPORTS SERVED:

DENVER INTL, DENVER, CO (KDEN)

LOST COMMUNICATIONS PROCEDURE:

IN THE EVENT OF LOST COMMUNICATIONS PRIOR TO RUNWAY TRANSITION ASSIGNMENT, WHEN DEN IS LANDING SOUTH, EXECUTE THE ILS RWY 17R, WHEN DEN IS LANDING NORTH, EXECUTE THE ILS RWY 35R.

REMARKS:

MEA'S FL200 AND ABOVE NEEDED TO MITIGATE CRITICAL DME'S AND INSURE ADEQUATE SIGNAL RECEPTION FOR DME/DME/IRU NAVIGATION.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KDEN 08E/2015

CHART AT EBBLR TERMINUS: LDG KDEN RWYS 34L/R, 35L

CHART AT PURRL TERMINUS: LDG KDEN RWYS 35R

CHART AT BBOOK TERMINUS: LDG KDEN RWYS 7, 8

CHART AT QWIKI TERMINUS: LDG KDEN RWYS 16L, 17L/R

CHART AT CLFFF TERMINUS: LDG KDEN RWYS 16R

CHART AT FIDLS TERMINUS: LDG KDEN RWYS 25, 26

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CLASH (RNAV)	FOUR	CLASH.CLASH4	THREE	12/31/2020	7 OCT 21
<u>FLIGHT INSPECTED BY:</u>					<i>Digitally signed by</i>
MATTHEW R BUFORD		FICO	07/27/2021	DONALD H LANIER	
Name		Organization	Date	Signature	Jul 28, 2021
<u>DEVELOPED BY:</u>					<i>Digitally signed by</i>
Mark Phipps Denver Metroplex Manager		DENVER ARTCC	4/22/2021	DONALD H LANIER	
Name		Organization	Date	Signature	Jul 28, 2021
<u>APPROVED BY:</u>					<i>Digitally signed by</i>
LONNIE EVERHART		AJV-A430		DONALD H LANIER	
Name		Organization	Date	Signature	Jul 28, 2021

CHANGES:

1. RECONFIGURED TRANSITION FOR RWY 25, 26; ADDED ROUTING FOR FIXES EVRLY, ERVNN, FIDLS; UPDATED TERMINUS DATA.
2. REFORMATTED RADAR REQUIRED, RNAV 1, DME/DME/IRU OR GPS REQUIRED REQUIRED NOTES TO CURRENT PBN & EQUIPMENT REQUIREMENT NOTES FORMAT
3. CHANGED RESTRICTION AT CLASH FROM AT OR ABOVE FL190 TO 190B220.
4. ADDED CHART NOTE ABOUT MAINTAINING 280K, DESCEND VIA NOTE, AND LANDING DIRECTION AND RUNWAYS NOTE.

REASONS:

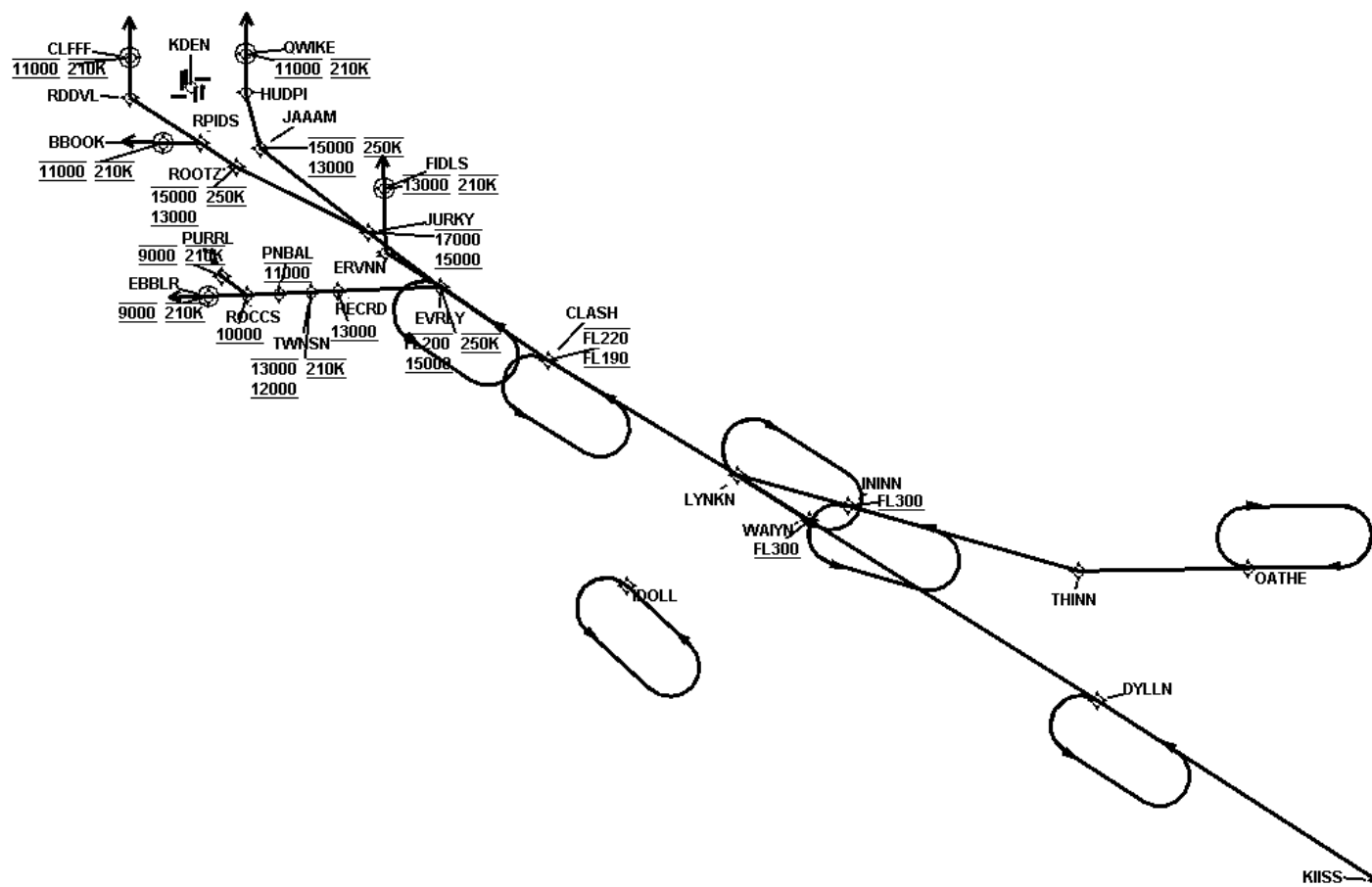
1. REQUIRED FOR AIRCRAFT TO BE IN THE CORRECT POSITION AND ALTITUDE FOR LANDING WEST TO OPTIMIZE CONVERGING LANDING OPERATIONS.
2. IAW 8260.19I, 4-5-3.
3. ATC REQUIRED FOR TBO COMPLIANCE.
4. ATC REQUIRED FOR TBO COMPLIANCE.

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CLASH (RNAV)	FOUR	CLASH.CLASH4	THREE	12/31/2020	7 OCT 21

Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name CLASH (RNAV)	Number FOUR	STAR Computer Code CLASH.CLASH4		Superseded Number THREE		Dated 12/31/2020	Effective Date 7 OCT 21		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
KIISS	381136.34N / 1012636.25W	Y		IF					KIISS.CLASH4
DYLLN	383416.08N / 1021218.74W	Y	FB	TF	302.44	42.48			
WAIYN	385658.72N / 1025924.53W	Y	FB	TF	301.87	43.26	AT/ABOVE FL300		
LYNKN	390240.14N / 1031110.79W	Y	FB	TF	301.84	10.79			
CLASH	391710.87N / 1034156.10W	Y	FB	TF	301.38	27.97	FL190BFL220		
En Route Transition									
OATHE	385059.03N / 1014739.33W	Y		IF					OATHE.CLASH4
THINN	385039.68N / 1021526.85W	Y	FB	TF	269.30	21.71			
ININN	385848.87N / 1025305.95W	Y	FB	TF	285.69	30.50	AT/ABOVE FL300		
LYNKN	390240.14N / 1031110.79W	Y	FB	TF	285.38	14.61			
CLASH	391710.87N / 1034156.10W	Y	FB	TF	301.38	27.97	FL190BFL220		
Common Route									
CLASH	391710.87N / 1034156.10W	Y		IF			FL190BFL220		CLASH.CLASH4
EVRLY	392630.06N / 1035935.67W	Y	FB	TF	304.30	16.56	15000BFL200	AT 250K	
Runway Transition									
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K	
JURKY	393319.78N / 1041127.02W	Y	FB	TF	306.69	11.44	15000B17000		
ROOTZ	394138.07N / 1043259.98W	Y	FB	TF	296.60	18.60	13000B15000	AT 250K	
RPIDS	394434.57N / 1043848.54W	Y	FB	TF	303.28	05.36			
BBOOK	394439.67N / 1044456.83W	Y	FO	TF	271.06	04.74	AT 11000	AT 210K	
KDEN:RWY 7,RWY 8				FM	271.06				
Runway Transition									
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K	
JURKY	393319.78N / 1041127.02W	Y	FB	TF	306.69	11.44	15000B17000		
JAAAM	394357.46N / 1042857.43W	Y	FB	TF	308.23	17.19	13000B15000	AT 250K	

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Arrival Name CLASH (RNAV)		Number FOUR		STAR Computer Code CLASH.CLASH4			Superseded Number THREE		Dated 12/31/2020	Effective Date 7 OCT 21	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
HUDPI	395055.21N / 1043122.20W	Y	FB	TF	345.05	07.20					
QWIKE	395555.43N / 1043118.56W	Y	FO	TF	000.53	05.00	AT 11000	AT 210K			
KDEN:RWY 16L,RWY 17L,RWY 17R				FM	000.53						
Runway Transition											
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K			
JURKY	393319.78N / 1041127.02W	Y	FB	TF	306.69	11.44	15000B17000				
ROOTZ	394138.07N / 1043259.98W	Y	FB	TF	296.60	18.60	13000B15000	AT 250K			
RPIDS	394434.57N / 1043848.54W	Y	FB	TF	303.28	05.36					
RDDVL	395019.88N / 1045024.03W	Y	FB	TF	302.83	10.63					
CLFFF	395520.10N / 1045020.55W	Y	FO	TF	000.51	05.00	AT 11000	AT 210K			
KDEN:RWY 16R				FM	000.51						
Runway Transition											
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K			
ERVNN	393048.72N / 1040837.31W	Y	FB	TF	301.69	08.21	AT 14000				
FIDLS	393856.29N / 1040847.49W	Y	FO	TF	359.08	08.12	AT 13000	AT 210K			
KDEN:RWY 25,RWY 26				FM	359.08						
Runway Transition											
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K			
RECRD	392554.84N / 1041622.12W	Y	FB	TF	267.50	13.01	AT/ABOVE 13000				
TWNSN	392545.21N / 1042045.89W	Y	FB	TF	267.33	03.41	12000B13000	AT 210K			
PNBAL	392533.80N / 1042556.05W	Y	FB	TF	267.31	04.01	AT 11000				
ROCCS	392523.36N / 1043106.25W	Y	FB	TF	267.54	04.01	AT/ABOVE 10000				
EBBLR	392512.85N / 1043723.62W	Y	FO	TF	267.98	04.88	AT 9000	AT 210K			
KDEN:RWY 34L,RWY 34R,RWY 35L				FM	267.98						

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Arrival Name CLASH (RNAV)	Number FOUR	STAR Computer Code CLASH.CLASH4	Superseded Number Three	Dated 12/31/2020	Effective Date 7 OCT 21
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
EVRLY	392630.06N / 1035935.67W	Y		IF			15000BFL200	AT 250K	
RECRD	392554.84N / 1041622.12W	Y	FB	TF	267.50	13.01	AT/ABOVE 13000		
TWNSN	392545.21N / 1042045.89W	Y	FB	TF	267.33	03.41	12000B13000	AT 210K	
PNBAL	392533.80N / 1042556.05W	Y	FB	TF	267.31	04.01	AT 11000		
ROCCS	392523.36N / 1043106.25W	Y	FB	TF	267.54	04.01	AT/ABOVE 10000		
PURRL	392744.44N / 1043516.99W	Y	FB	TF	305.99	04.00	AT 9000	AT 210K	
KDEN:RWY 35R									

