

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. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

Arrival Name <b>FLATI (RNAV)</b>	Number <b>FOUR</b>	STAR Computer Code <b>FLATI.FLATI4</b>	Superseded Number <b>THREE</b>	Dated <b>10/07/2021</b>	Effective Date <b>16 MAY 24</b>
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes			
HIPEE	HIPEE.FLATI4	HIPEE	HIPEE						AT/ABOVE FL250			
			FOLSM	106.95	17.23	FL190	14700	BETWEEN FL230 AND FL270				
			BBOCO	107.21	11.37	FL190	14700	BETWEEN FL210 AND FL250				
			FLATI	107.36	13.41	FL190	14200	BETWEEN FL190 AND FL220				
MJANE	MJANE.FLATI4	MJANE	MJANE									
			MSTSH	099.87	47.28	FL190	14700					
			HIPEE	100.51	52.72	FL190	14700	AT/ABOVE FL250				
			FOLSM	106.95	17.23	FL190	14700	BETWEEN FL230 AND FL270				
			BBOCO	107.21	11.37	FL190	14700	BETWEEN FL210 AND FL250				
			FLATI	107.36	13.41	FL190	14200	BETWEEN FL190 AND FL220				
			TOFUU	TOFUU.FLATI4	TOFUU	TOFUU						
						GNOLA	123.78	33.82	FL190	14700		
HIPEE	124.10	52.72				FL190	14700	AT/ABOVE FL250				
FOLSM	106.95	17.23				FL190	14700	BETWEEN FL230 AND FL270				
BBOCO	107.21	11.37				FL190	14700	BETWEEN FL210 AND FL250				
FLATI	107.36	13.41				FL190	14200	BETWEEN FL190 AND FL220				

**ARRIVAL ROUTE DESCRIPTION:**

FROM FLATI ON TRACK 107.53/12.16 TO CROSS ELLDO BETWEEN 16000 AND FL210 AND AT 250 KIAS.

LANDING RWY 7, 8: FROM ELLDO ON TRACK 131.65/10.50 TO CROSS MLVVA AT 14000, THEN ON TRACK 131.65. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 16L/R, 17L/R: FROM ELLDO ON TRACK 099.19/6.00 TO CROSS BSAFE AT OR BELOW 15000, THEN ON TRACK 099.36/7.79 TO CROSS BDUNN BETWEEN 14000 AND 15000 AND AT 210 KIAS, THEN ON TRACK 099.28/6.97 TO CROSS TSHNR AT 13000 AND AT 210 KIAS. EXPECT ILS OR LOC RWY 16L/R OR ILS OR LOC RWY 17L/R APPROACH.

LANDING RWY 25, 26: FROM ELLDO ON TRACK 136.56/17.26 TO CROSS TOTTT BETWEEN 15000 AND 17000, THEN ON TRACK 136.68/3.00 TO YESSS, THEN ON TRACK 132.82/9.08 TO CROSS SKEWD BETWEEN 13000 AND 15000 AND AT 250 KIAS, THEN ON TRACK 117.50/4.70 TO CROSS LEKEE AT OR ABOVE 12000, THEN ON TRACK 117.55/5.24 TO XCUTV, THEN ON TRACK 082.50/3.30 TO CROSS CAPTJ AT 11000 AND AT 210 KIAS, THEN ON TRACK 082.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 34L/R, 35L: FROM ELLDO ON TRACK 136.56/17.26 TO CROSS TOTTT BETWEEN 15000 AND 17000, THEN ON TRACK 136.68/3.00 TO YESSS, THEN ON TRACK 148.58/8.91 TO CROSS BAACK AT OR ABOVE 13000, THEN ON TRACK 148.27/5.00 TO CROSS BABAA BETWEEN 12000 AND 14000 AND AT 250 KIAS, THEN ON TRACK 173.17/10.95 TO CROSS HIMOM AT 11000 AND AT 210 KIAS, THEN ON TRACK 173.17. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 35R: FROM ELLDO ON TRACK 136.56/17.26 TO CROSS TOTTT BETWEEN 15000 AND 17000, THEN ON TRACK 136.68/3.00 TO YESSS, THEN ON TRACK 132.82/9.08 TO CROSS SKEWD BETWEEN 13000 AND 15000 AND AT 250 KIAS, THEN ON TRACK 117.50/4.70 TO CROSS LEKEE AT OR ABOVE 12000, THEN ON TRACK 117.55/5.24 TO XCUTV, THEN ON TRACK 117.48/4.00 TO CROSS HDGHG BETWEEN 12000 AND 14000, THEN ON TRACK 117.82/3.13 TO FFFAT, THEN ON TRACK 172.74/6.11 TO CROSS DOGGG AT 11000 AND AT 210 KIAS, THEN ON TRACK 172.74. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FLATI (RNAV)	FOUR	FLATI.FLATI4	THREE	10/07/2021	16 MAY 24

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**PROCEDURAL DATA NOTES:**

- NOTE: JET AIRCRAFT ONLY
- NOTE: HIPEE ENROUTE TRANSITION:DO NOT FILE - TO BE ASSIGNED BY ATC.
- NOTE: DENVER CENTER WILL ISSUE "DESCEND VIA" CLEARANCE AND LANDING DIRECTION.
- NOTE: LANDING NORTH SELECT RWY 34R TRANSITION.
- NOTE: LANDING SOUTH SELECT RWY 16R TRANSITION.
- NOTE: LANDING EAST SELECT RWY 7 TRANSITION.
- NOTE: LANDING WEST SELECT RWY 26 TRANSITION.
- NOTE: EXPECT RUNWAY ASSIGNMENT ON INITIAL CONTACT WITH DENVER TRACON.

**FIXES AND/OR HOLDING PATTERNS:**

- CHART HOLDING AT BBOCO: HOLD W, LT, 107.21 INBOUND, 11 NM LEGS.
- CHART HOLDING AT ELLDO: HOLD W, RT, 107.53 INBOUND, 10 NM LEGS.
- CHART HOLDING AT GNOLA: HOLD NW, LT, 123.78 INBOUND, 12 NM LEGS.
- CHART HOLDING AT HIPEE: HOLD W, LT, 100.51 INBOUND, 12 NM LEGS.
- CHART HOLDING AT MSTSH: HOLD W, RT, 099.87 INBOUND, 12 NM LEGS.
- CHART YYALE AND HOLDING AT YYALE: HOLD W, LT, 092.00 INBOUND, 12 NM LEGS.

**COMMUNICATIONS:**

- CHART: DENVER APP CON
- CHART: DENVER TOWER

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KDEN	DENVER	CO

**LOST COMMUNICATIONS PREFERENCES:**

IN THE EVENT OF LOST COMMUNICATIONS PRIOR TO RUNWAY TRANSITION ASSIGNMENT, WHEN DEN IS LANDING SOUTH, PROCEED ON THE ILS RWY 16R; WHEN DEN IS LANDING NORTH, PROCEED ON THE ILS RWY 34R.

**REMARKS:**

ABBREVIATED AMDT WITH FC FOR MOCA VALUES.

**ADDITIONAL FLIGHT DATA:**

- DME/DME ASSESSMENT: SAT (RNP 2.0)
- MAG VAR: KDEN 08E/2015
- CHART AT HIMOM TERMINUS: LDG KDEN RWYS 34L/R, AND 35L



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<b>FLATI (RNAV)</b>	<b>FOUR</b>	<b>FLATI.FLATI4</b>	<b>THREE</b>	<b>10/07/2021</b>	<b>16 MAY 24</b>

CHART AT TSHNR TERMINUS: LDG KDEN RWYS 16L/R AND 17L/R  
 CHART AT DOGGG TERMINUS: LDG KDEN RWYS 35R  
 CHART AT CAPTJ TERMINUS: LDG KDEN RWYS 25 AND 26  
 CHART AT MLVVA TERMINUS: LDG KDEN RWYS 7 AND 8

*Digitally signed by*

**JOHN BORDY**

Jan 29, 2024

**FLIGHT INSPECTED BY:**

MATTHEW OLSTAD

**ORGANIZATION:**

FPO

**DATE:**

01/24/2024

Flight Inspected Signature:

*Digitally signed by*

**JOHN BORDY**

Jan 29, 2024

**DEVELOPED BY:**

BRITNEY ARMENTROUT

AJV-A422

09/08/2023

Developed By Signature:

*Digitally signed by*

**JOHN BORDY**

Jan 29, 2024

**APPROVED BY:**

JOHN BORDY

AJV-A33

01/29/2024

Approved By Signature:

**CHANGES:**

1. ALTITUDE AND SPEED RESTRICTIONS CHANGED AT THE FOLLOWING FIXES:  
 HIPEE - CHANGED TO AT/ABOVE FL250 AT 280KTS.  
 FOLSM - ADDED BETWEEN FL230 AND FL270 AT 280KTS.  
 BBOCO - ADDED BETWEEN FL210 AND FL250 AT 270KTS.
2. MOCAS ADDED TO ALL ENROUTE SEGMENTS.
3. MEA ON MJANE AND TOFUU TRANSITIONS LOWERED TO FL190.
4. REMOVED REMARK "MEA'S FL190 AND ABOVE NEEDED TO MITIGATE CRITICAL DME'S AND INSURE ADEQUATE SIGNAL RECEPTION FOR DME/DME/IRU NAVIGATION."
5. REMOVED "NOTE: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KIAS. MAINTAIN 280 KIAS UNTIL SLOWED BY STAR."
6. LOST COMMUNICATIONS WORDING CHANGED: SUBSITUTE "PROCEED" FOR "EXECUTE".
7. COMBINED 16L/R AND 17L/R RWY TRANSITIONS AND UPDATED EXPECT ARRIVAL TEXT.
8. UPDATED EQUIPMENT NOTE TO "RADAR REQUIRED".
9. CHANGED PROCEDURAL DATA NOTE TO "NOTE: JET AIRCRAFT ONLY".

**REASONS:**

1. DENVER CENTER REQUEST TO AID AIR TRAFFIC CONTROL IN SEQUENCING AIRCRAFT PRIOR TO DENVER TRACONS AIRSPACE AND TO REDUCE COMPRESSION BETWEEN AIRCRAFT.
2. IAW 8260.19I 4-5-12b(8) AND STAR MOCA CLARIFICATION MEMO DATED JULY 1 2021.
3. HIGHER MEA NOT REQUIRED FOR DME COVERAGE.
4. NOT APPLICABLE - HIGHER DMES NOT REQUIRED FOR DME COVERAGE.
5. NOT REQUIRED DUE TO ADDED SPEED RESTRICTIONS AT HIPEE, FOLSM, BBOCO, FLATI.
6. PER CURRENT FAA PREFERENCE RE: FAAO 8260.19I PARAGRAPH 4-5-2.O(2).
7. IAW 8260.19I 4-5-12.C.
8. IAW 8260.19I 4-5-12.D(2).
9. IAW 8260.19I 4-5-12.D(3).

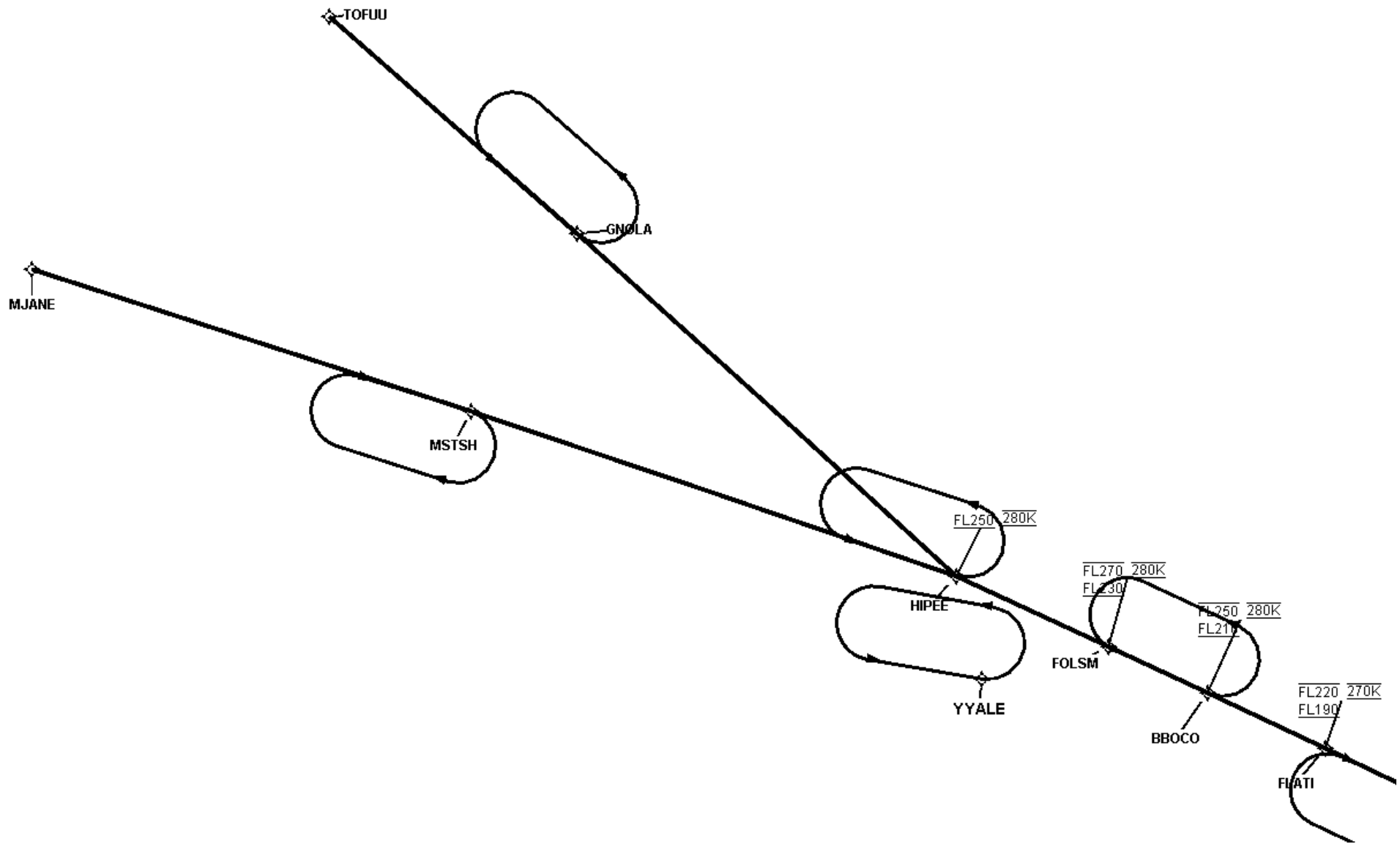


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FLATI RNAV	FOUR	FLATI.FLATI4	THREE	10/07/2021	16 MAY 24

Graphic Depiction 1

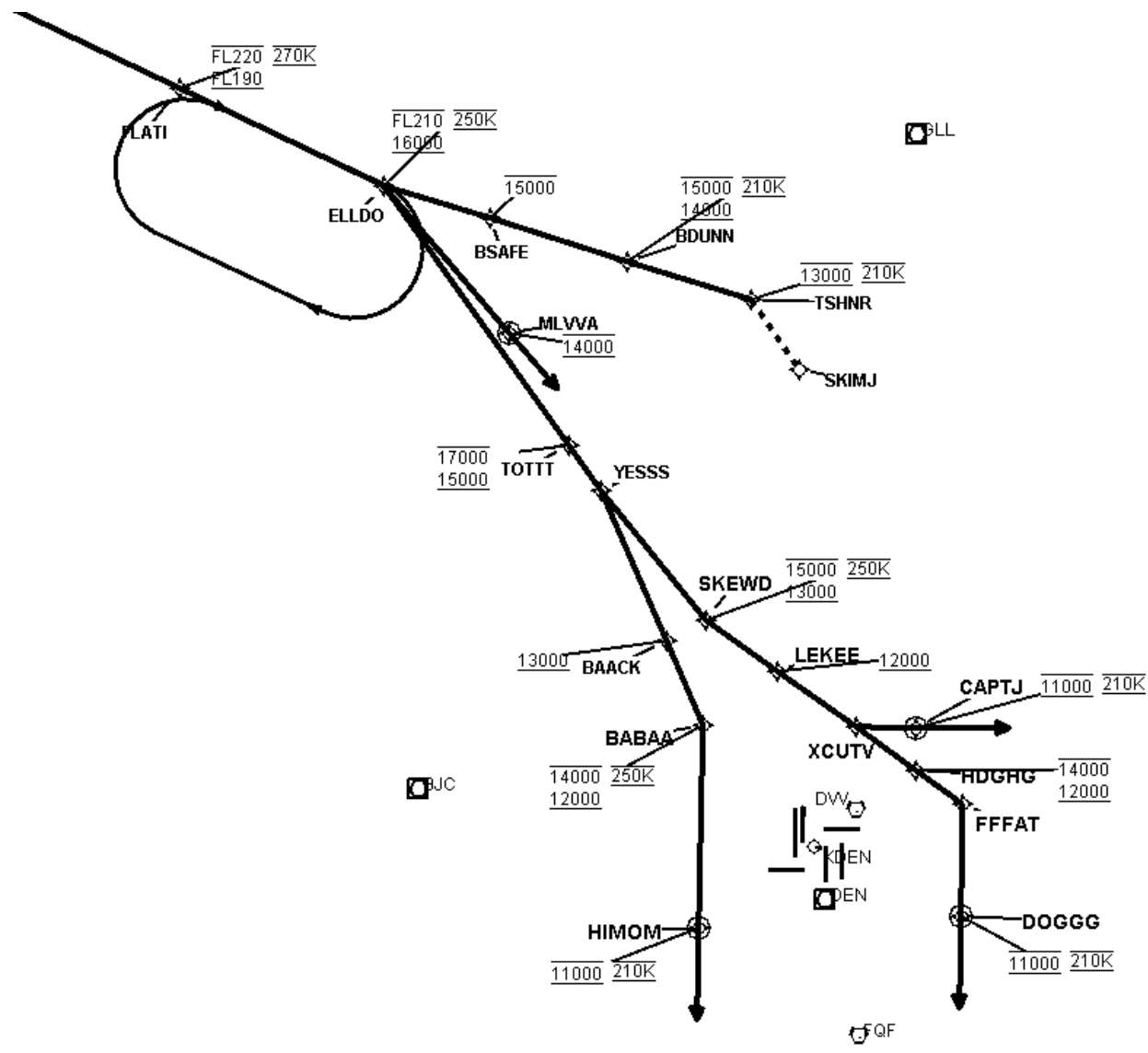


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FLATI RNAV	FOUR	FLATI.FLATI4	THREE	10/07/2021	16 MAY 24

Graphic Depiction 2



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

Arrival Name FLATI (RNAV)	Number FOUR	STAR Computer Code FLATI.FLATI4		Superseded Number THREE		Dated 10/07/2021	Effective Date <b>16 MAY 24</b>		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
HIPEE	405043.69N / 1061508.14W	Y		IF			AT/ABOVE FL250	AT 280K	HIPEE.FLATI4
FOLSM	404325.52N / 1055435.30W	Y	FB	TF	114.95	17.23	FL230BFL270	AT 280K	
BBOCO	403833.95N / 1054104.48W	Y	FB	TF	115.21	11.37	FL210BFL250	AT 280K	
FLATI	403248.03N / 1052510.72W	Y	FB	TF	115.36	13.41	FL190BFL220	AT 270K	
En Route Transition									
MJANE	412234.11N / 1082033.48W	Y		IF					MJANE.FLATI4
MSTSH	410747.60N / 1072100.54W	Y	FB	TF	107.87	47.28			
HIPEE	405043.69N / 1061508.14W	Y	FB	TF	108.51	52.72	AT/ABOVE FL250	AT 280K	
FOLSM	404325.52N / 1055435.30W	Y	FB	TF	114.95	17.23	FL230BFL270	AT 280K	
BBOCO	403833.95N / 1054104.48W	Y	FB	TF	115.21	11.37	FL210BFL250	AT 280K	
FLATI	403248.03N / 1052510.72W	Y	FB	TF	115.36	13.41	FL190BFL220	AT 270K	
En Route Transition									
TOFUU	414854.82N / 1074012.49W	Y		IF					TOFUU.FLATI4
GNOLA	412617.12N / 1070640.35W	Y	FB	TF	131.78	33.82			
HIPEE	405043.69N / 1061508.14W	Y	FB	TF	132.10	52.72	AT/ABOVE FL250	AT 280K	
FOLSM	404325.52N / 1055435.30W	Y	FB	TF	114.95	17.23	FL230BFL270	AT 280K	
BBOCO	403833.95N / 1054104.48W	Y	FB	TF	115.21	11.37	FL210BFL250	AT 280K	
FLATI	403248.03N / 1052510.72W	Y	FB	TF	115.36	13.41	FL190BFL220	AT 270K	
Common Route									
FLATI	403248.03N / 1052510.72W	Y		IF			FL190BFL220	AT 270K	FLATI.FLATI4
ELLDO	402732.46N / 1051048.22W	Y	FB	TF	115.53	12.16	16000BFL210	AT 250K	



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Arrival Name FLATI (RNAV)	Number FOUR	STAR Computer Code FLATI.FLATI4		Superseded Number THREE		Dated 10/07/2021	Effective Date 16 MAY 24		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
ELLDO	402732.46N / 1051048.22W	Y		IF			16000BFL210	AT 250K	
MLVVA	401931.66N / 1050154.90W	Y	FO	TF	139.65	10.50	AT 14000		
KDEN:RWY 7,RWY 8				FM	139.65				
Runway Transition									
ELLDO	402732.46N / 1051048.22W	Y		IF			16000BFL210	AT 250K	
BSAFE	402545.73N / 1050317.87W	Y	FB	TF	107.19	06.00	AT/BELOW 15000		
BDUNN	402325.76N / 1045334.10W	Y	FB	TF	107.36	07.79	14000B15000	AT 210K	
TSHNR	402121.13N / 1044451.74W	Y	FB	TF	107.28	06.97	AT 13000	AT 210K	
KDEN:RWY 16L,RWY 16R,RWY 17L,RWY 17R									
Runway Transition									
ELLDO	402732.46N / 1051048.22W	Y		IF			16000BFL210	AT 250K	
TOTTT	401327.39N / 1045744.24W	Y	FB	TF	144.56	17.26	15000B17000		
YESSS	401100.39N / 1045528.47W	Y	FB	TF	144.68	03.00			
SKEWD	400357.73N / 1044800.42W	Y	FB	TF	140.82	09.08	13000B15000	AT 250K	
LEKEE	400113.76N / 1044301.57W	Y	FB	TF	125.50	04.70	AT/ABOVE 12000		
XCUTV	395810.74N / 1043728.95W	Y	FB	TF	125.55	05.24			
CAPTJ	395808.94N / 1043311.12W	Y	FO	TF	090.50	03.30	AT 11000	AT 210K	
KDEN:RWY 25,RWY 26				FM	090.50				
Runway Transition									
ELLDO	402732.46N / 1051048.22W	Y		IF			16000BFL210	AT 250K	
TOTTT	401327.39N / 1045744.24W	Y	FB	TF	144.56	17.26	15000B17000		
YESSS	401100.39N / 1045528.47W	Y	FB	TF	144.68	03.00			
BAACK	400249.43N / 1045051.84W	Y	FB	TF	156.58	08.91	AT/ABOVE 13000		
BABAA	395814.55N / 1044814.83W	Y	FB	TF	156.27	05.00	12000B14000	AT 250K	



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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
HIMOM	394717.19N / 1044832.22W	Y	FO	TF	181.17	10.95	AT 11000	AT 210K	
KDEN:RWY 34L,RWY 34R,RWY 35L				FM	181.17				
Runway Transition									
ELLDO	402732.46N / 1051048.22W	Y		IF			16000BFL210	AT 250K	
TOTTT	401327.39N / 1045744.24W	Y	FB	TF	144.56	17.26	15000B17000		
YESSS	401100.39N / 1045528.47W	Y	FB	TF	144.68	03.00			
SKEWD	400357.73N / 1044800.42W	Y	FB	TF	140.82	09.08	13000B15000	AT 250K	
LEKEE	400113.76N / 1044301.57W	Y	FB	TF	125.50	04.70	AT/ABOVE 12000		
XCUTV	395810.74N / 1043728.95W	Y	FB	TF	125.55	05.24			
HDGHG	395551.26N / 1043314.89W	Y	FB	TF	125.48	04.00	12000B14000		
FFFAT	395401.30N / 1042957.17W	Y	FB	TF	125.82	03.13			
DOGGG	394754.32N / 1043003.31W	Y	FO	TF	180.74	06.11	AT 11000	AT 210K	
KDEN:RWY 35R				FM	180.74				

