

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

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Arrival Name TBARR (RNAV)	Number FOUR	STAR Computer Code TBARR.TBARR4	Superseded Number THREE	Dated 10/07/2021	Effective Date 12 JUN 25				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BBRRO	BBRRO.TBARR4	BBRRO	BBRRO						AT/ABOVE FL270
			LIFTE	042.10	21.76	FL190	16500	BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900	BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900	BETWEEN FL190 AND FL220	
CRUDD	CRUDD.TBARR4	CRUDD	CRUDD						
			SHNPS	035.04	32.60	FL200	16500		
			BBRRO	042.08	47.50	FL190	16500	AT/ABOVE FL270	
			LIFTE	042.10	21.76	FL190	16500	BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900	BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900	BETWEEN FL190 AND FL220	
GNDLA	GNDLA.TBARR4	GNDLA	GNDLA						
			NVVER	004.64	56.00	FL240	16500		
			ZORKL	004.79	29.95	FL210	16500		
			BBRRO	004.84	29.84	FL190	16500	AT/ABOVE FL270	
			LIFTE	042.10	21.76	FL190	16500	BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900	BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900	BETWEEN FL190 AND FL220	
			LIFTE	LIFTE.TBARR4	LIFTE	LIFTE			
OLSNN	OLSNN.TBARR4	OLSNN	OLSNN	042.55	12.42	17000	13900	BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900	BETWEEN FL190 AND FL220	
NVVER	NVVER.TBARR4	NVVER	NVVER						
			ZORKL	004.79	29.95	FL210	16500		
			BBRRO	004.84	29.84	FL190	16500	AT/ABOVE FL270	
			LIFTE	042.10	21.76	FL190	16500	BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900	BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900	BETWEEN FL190 AND FL220	
OLSNN	OLSNN.TBARR4	OLSNN	OLSNN					BETWEEN FL210 AND FL250	

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Arrival Name		Number		STAR Computer Code		Superseded Number			Dated	Effective Date
TBARR (RNAV)		FOUR		TBARR.TBARR4		THREE			10/07/2021	12 JUN 25
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			TBARR	042.43	12.43	17000	13900		BETWEEN FL190 AND FL220	
SHNPS	SHNPS.TBARR4	SHNPS	SHNPS							
			BBRRO	042.08	47.50	FL190	16500		AT/ABOVE FL270	
			LIFTE	042.10	21.76	FL190	16500		BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900		BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900		BETWEEN FL190 AND FL220	
WUNZE	WUNZE.TBARR4	WUNZE	WUNZE					FL260	AT/BELOW FL260	
			LIFTE	064.84	54.53	FL190	16500	FL260	BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900		BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900		BETWEEN FL190 AND FL220	
ZORKL	ZORKL.TBARR4	ZORKL	ZORKL							
			BBRRO	004.84	29.84	FL190	16500		AT/ABOVE FL270	
			LIFTE	042.10	21.76	FL190	16500		BETWEEN FL230 AND FL290	
			OLSNN	042.55	12.42	17000	13900		BETWEEN FL210 AND FL250	
			TBARR	042.43	12.43	17000	13900		BETWEEN FL190 AND FL220	

ARRIVAL ROUTE DESCRIPTION:

FROM TBARR ON TRACK 042.98/13.00 TO CROSS MNARK BETWEEN 17000 AND FL190 AND AT 250 KIAS.

LANDING RWY 7, 8: FROM MNARK ON TRACK 032.96/13.00 TO CROSS SUMTT AT 14000, THEN ON TRACK 032.96. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 16L/R: FROM MNARK ON TRACK 027.77/13.19 TO CROSS EOLUS BETWEEN 15000 AND 17000, THEN ON TRACK 027.38/19.60 TO CROSS EPPIC BETWEEN 13000 AND 15000 AND AT 240 KIAS, THEN ON TRACK 352.51/6.55 TO RDDVL, THEN ON TRACK 352.51/5.00 TO CROSS CLFFC AT 11000 AND AT 210 KIAS, THEN ON TRACK 352.51. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 17L/R: FROM MNARK ON TRACK 027.77/13.19 TO CROSS EOLUS BETWEEN 15000 AND 17000, THEN ON TRACK 038.45/20.23 TO CROSS ZATUT BETWEEN 13000 AND 15000 AND AT 240 KIAS, THEN ON TRACK 037.17/7.37 TO LOOOP, THEN ON TRACK 049.13/7.38 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 25, 26: FROM MNARK ON TRACK 027.77/13.19 TO CROSS EOLUS BETWEEN 15000 AND 17000, THEN ON TRACK 038.45/20.23 TO CROSS ZATUT BETWEEN 13000 AND 15000 AND AT 240 KIAS, THEN ON TRACK 037.17/7.37 TO LOOOP, THEN ON TRACK 081.56/4.74 TO CROSS JIBAT AT 11000 AND AT 210 KIAS, THEN ON TRACK 081.56. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 34L/R, 35L/R: FROM MNARK ON TRACK 073.29/11.73 TO CROSS BDIVN AT OR BELOW 15000, THEN ON TRACK 068.48/6.00 TO CROSS KUSHH AT 14000 AND AT 210 KIAS, THEN ON TRACK 063.97/4.40 TO CROSS LDORA AT 13000 AND AT 210 KIAS. EXPECT ILS OR LOC RWY 34L, RWY 34R, RWY 35L, RWY 35R APPROACH.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

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TBARR (RNAV)	FOUR	TBARR.TBARR4	THREE	10/07/2021	12 JUN 25

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY
 NOTE: DENVER CENTER WILL ISSUE "DESCEND VIA" CLEARANCE AND LANDING DIRECTION.
 NOTE: EXPECT RUNWAY ASSIGNMENT ON INITIAL CONTACT WITH DENVER TRACON.
 NOTE: SHNPS, BBRRO, NVVER, OLSNN, ZORKL, AND LIFTE TRANSITIONS, ATC ASSIGNED ONLY.
 NOTE: LANDING NORTH SELECT RWY 35L TRANSITION.
 NOTE: LANDING SOUTH SELECT RWY 16R TRANSITION.
 NOTE: LANDING EAST SELECT RWY 7 TRANSITION.
 NOTE: LANDING WEST SELECT RWY 26 TRANSITION.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT CRUDD: HOLD SW, RT, 037.00 INBOUND, 12 NM LEGS.
 CHART HOLDING AT LIFTE: HOLD SW, RT, 042.05 INBOUND, 12 NM LEGS.
 CHART HOLDING AT MNARK: HOLD SW, LT, 042.98 INBOUND, 10 NM LEGS.
 CHART HOLDING AT NVVER: HOLD S, LT, 004.64 INBOUND, 12 NM LEGS.
 CHART HOLDING AT TBARR: HOLD SW, LT, 042.43 INBOUND, 12 NM LEGS.
 CHART HOLDING AT WUNZE: HOLD SW, RT, 057.66 INBOUND, 12 NM LEGS.
 CHART HOLDING AT EPPIC: HOLD SW, RT, 047.10 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: DENVER ARTCC.
 CHART: DENVER TOWER.

AIRPORTS SERVED:

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

LOST COMMUNICATIONS PREFERENCES:

IN THE EVENT OF LOST COMMUNICATIONS PRIOR TO RUNWAY TRANSITION ASSIGNMENT, WHEN DEN IS LANDING SOUTH, EXECUTE THE ILS RWY 16R, WHEN DEN IS LANDING NORTH, EXECUTE THE ILS RWY 35L.

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)
 MAG VAR: DEN 08E/2015
 CHART AT SUMTT TERMINUS: DEN LDG RWY 7, 8
 CHART AT QWIKI TERMINUS: DEN LDG RWY 17L/R

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TBARR (RNAV)	FOUR	TBARR.TBARR4	THREE	10/07/2021	12 JUN 25
CHART AT JIBAT TERMINUS: DEN LDG RWY 25, 26 CHART AT LDORA TERMINUS: DEN LDG RWY 34L/R, 35L/R CHART AT CLFFF TERMINUS: DEN LDG RWY 16L/R					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>FLIGHT INSPECTED BY: <i>Digitally signed by</i> ROBERT G HAMILTON JEREMY C LEIGHTON Feb 06, 2025</p> </div> <div style="width: 15%;"> <p>ORGANIZATION: AJF</p> </div> <div style="width: 15%;"> <p>DATE: 01/24/2025</p> </div> <div style="width: 20%;"> <p>Flight Inspected Signature: _____</p> </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>DEVELOPED BY: <i>Digitally signed by</i> ROBERT G HAMILTON Jenifer Nordstrom Feb 06, 2025</p> </div> <div style="width: 15%;"> <p>ZDV Airspace&Procedur es</p> </div> <div style="width: 15%;"> <p>05/01/2024</p> </div> <div style="width: 20%;"> <p>Developed By Signature: _____</p> </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>APPROVED BY: <i>Digitally signed by</i> ROBERT G HAMILTON Bev Bordy Feb 06, 2025</p> </div> <div style="width: 15%;"> <p>AJV-A430</p> </div> <div style="width: 20%;"> <p>Approved By Signature: _____</p> </div> </div>					

CHANGES:

1. REMOVED NOTE: TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280 KIAS. MAINTAIN 280 KIAS UNTIL SLOWED BY STAR.
2. CHANGED RESTRICTION AT TBARR WP FROM FL200BFL220 TO FL190BFL220 AND AT 270 KIAS.
3. ADDED RESTRICTION AT LIFTE WP OF FL230BFL290 AND AT 280 KIAS.
4. ADDED HOLDING AT EPPIC WP: HOLD SW, RT, 47.10 INBOUND, 10 NM LEGS.
5. ADDED EN ROUTE TRANSITION BEGINNING AT CRUDD, OLSNN, ZORKL, AND LIFTE.
6. ADDED 280K SPEED RESTRICTION TO BBRRO.
7. ADDED OLSNN WITH RESTRICTIONS OF FL210BFL250 BETWEEN LIFTE AND TBARR.
8. ADDED ZORKL BETWEEN NVVER AND BBRRO.
9. ADDED SHNPS, OLSNN, ZORKL, AND LIFTE TRANSITIONS TO ATC ASSIGNED ONLY NOTE.
10. CHANGED EQUIPMENT REQUIREMENT NOTE FROM RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT TO RADAR REQUIRED.
11. CHANGED MAX CROSSING ALTITUDE AT MNARK FROM FL210 TO FL190.
12. MOCA VALUES ADDED FOR ALL TRANSITION ROUTE SEGMENTS.
13. CHANGED NOTE: FROM LANDING NORTH SELECT RWY 34R TRANSITION TO LANDING NORTH SELECT RWY 35L TRANSITION.
14. REMOVED AIRPORT NAME FROM AIRPORTS SERVED, REMOVED K IDENT FROM 17.1 FORM.
15. CHANGED TURBOJET NOTE TO REFLECT JET.
16. REVISED MEAS.
17. REMOVED DEN APP CON FROM COMMUNICATIONS.
18. ADDED DEN ARTCC TO COMMUNICATIONS.

REASONS:

- 1-2. TO SATISFY ERC/ATSAP AND ZDV/D01 SAFETY COUNCIL RECOMMENDATION.
- 3-6. ATC REQUEST.
- 7-8. ATC REQUEST TO ACCOMMODATE NEW EN ROUTE TRANSITION.

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9. ATC REQUEST TO MITIGATE REROUTING AND RE-CLEARING AIRCRAFT DURING BUSY OR INCLEMENT WEATHER.
10. NECESSARY FOR STARS THAT REQUIRE RADAR VECTORS IAW 8260.19J, PARA 4-5-12(d)2(B).
11. ATC REQUEST TO CONTAIN AIRCRAFT WITHIN ANTICIPATED DESCENT PROFILE.
12. MOCA ALWAYS DOCUMENTED IAW 8260.19J 4-5-12.b.(8).
13. ATC REQUEST OPERATIONAL NEED.
14-15. IAW 8260.19J DOCUMENTATION STANDARDS.
16. NEW OBSTACLE/TERRAIN EVALUATION AND DME/DME ASSESSMENT.
17. APPROACH CONTROL AUTOMATICALLY CHARTED AND DOES NOT NEED TO BE DOCUMENTED IN THIS SECTION IAW 8260.19J PARA 4-5-12(F).
18. ATC REQUEST.

**FEDERAL AVIATION ADMINISTRATION
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STAR (DATA RECORD)**

Arrival Name TBARR (RNAV)	Number FOUR		STAR Computer Code TBARR.TBARR4		Superseded Number THREE		Dated 10/07/2021		Effective Date 12 JUN 25
<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									
BBRRO	383910.18N / 1061409.27W	Y		IF			AT/ABOVE FL270	AT 280K	BBRRO.TBARR4
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
CRUDD	374500.54N / 1072851.76W	Y		IF					CRUDD.TBARR4
SHNPS	380848.29N / 1070039.70W	Y	FB	TF	043.04	32.60			
BBRRO	383910.18N / 1061409.27W	Y	FB	TF	050.08	47.50	AT/ABOVE FL270	AT 280K	
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
GNDLA	364607.74N / 1064627.69W	Y		IF					GNDLA.TBARR4
NVVER	374049.33N / 1063101.41W	Y	FB	TF	012.64	56.00			
ZORKL	381003.29N / 1062237.20W	Y	FB	TF	012.79	29.95			
BBRRO	383910.18N / 1061409.27W	Y	FB	TF	012.84	29.84	AT/ABOVE FL270	AT 280K	
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
LIFTE	385306.51N / 1055246.66W	Y		IF			FL230BFL290	AT 280K	LIFTE.TBARR4
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
NVVER	374049.33N / 1063101.41W	Y		IF					NVVER.TBARR4

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Arrival Name TBARR (RNAV)	Number FOUR	STAR Computer Code TBARR.TBARR4		Superseded Number THREE		Dated 10/07/2021	Effective Date 12 JUN 25		
<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>
ZORKL	381003.29N / 1062237.20W	Y	FB	TF	012.79	29.95			
BBRRO	383910.18N / 1061409.27W	Y	FB	TF	012.84	29.84	AT/ABOVE FL270	AT 280K	
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
OLSNN	390059.87N / 1054028.18W	Y		IF			FL210BFL250		OLSNN.TBARR4
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
SHNPS	380848.29N / 1070039.70W	Y		IF					SHNPS.TBARR4
BBRRO	383910.18N / 1061409.27W	Y	FB	TF	050.08	47.50	AT/ABOVE FL270	AT 280K	
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
WUNZE	383719.43N / 1065930.44W	Y		IF			AT/BELOW FL260		WUNZE.TBARR4
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	072.84	54.53	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	
En Route Transition									
ZORKL	381003.29N / 1062237.20W	Y		IF					ZORKL.TBARR4
BBRRO	383910.18N / 1061409.27W	Y	FB	TF	012.84	29.84	AT/ABOVE FL270	AT 280K	
LIFTE	385306.51N / 1055246.66W	Y	FB	TF	050.10	21.76	FL230BFL290	AT 280K	
OLSNN	390059.87N / 1054028.18W	Y	FB	TF	050.55	12.42	FL210BFL250		
TBARR	390854.64N / 1052809.30W	Y	FB	TF	050.43	12.43	FL190BFL220	AT 270K	

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Common Route									
TBARR	390854.64N / 1052809.30W	Y		IF			FL190BFL220	AT 270K	TBARR.TBARR4
MNARK	391705.40N / 1051508.77W	Y	FB	TF	050.98	13.00	17000BFL190	AT 250K	
Runway Transition									
MNARK	391705.40N / 1051508.77W	Y		IF			17000BFL190	AT 250K	
SUMTT	392654.45N / 1050408.62W	Y	FO	TF	040.96	13.00	AT 14000		
KDEN:RWY 7,RWY 8				FM	040.96				
Runway Transition									
MNARK	391705.40N / 1051508.77W	Y		IF			17000BFL190	AT 250K	
EOLUS	392747.88N / 1050511.27W	Y	FB	TF	035.77	13.19	15000B17000		
EPPIC	394346.71N / 1045028.58W	Y	FB	TF	035.38	19.60	13000B15000	AT 240K	
RDDVL	395019.88N / 1045024.03W	Y	FB	TF	000.51	06.55			
CLFFF	395520.10N / 1045020.55W	Y	FO	TF	000.51	05.00	AT 11000	AT 210K	
KDEN:RWY 16L,RWY 16R				FM	000.51				
Runway Transition									
MNARK	391705.40N / 1051508.77W	Y		IF			17000BFL190	AT 250K	
EOLUS	392747.88N / 1050511.27W	Y	FB	TF	035.77	13.19	15000B17000		
ZATUT	394143.17N / 1044611.89W	Y	FB	TF	046.45	20.23	13000B15000	AT 240K	
LOOOP	394654.97N / 1043925.16W	Y	FB	TF	045.17	07.37			
HUDPI	395055.21N / 1043122.20W	Y	FB	TF	057.13	07.38			
QWIKI	395555.43N / 1043118.56W	Y	FO	TF	000.53	05.00	AT 11000	AT 210K	
KDEN:RWY 17L,RWY 17R				FM	000.53				
Runway Transition									
MNARK	391705.40N / 1051508.77W	Y		IF			17000BFL190	AT 250K	
EOLUS	392747.88N / 1050511.27W	Y	FB	TF	035.77	13.19	15000B17000		

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ZATUT	394143.17N / 1044611.89W	Y	FB	TF	046.45	20.23	13000B15000	AT 240K	
LOOP	394654.97N / 1043925.16W	Y	FB	TF	045.17	07.37			
JIBAT	394657.00N / 1043316.27W	Y	FO	TF	089.56	04.74	AT 11000	AT 210K	
KDEN:RWY 25,RWY 26				FM	089.56				
Runway Transition									
MNARK	391705.40N / 1051508.77W	Y		IF			17000BFL190	AT 250K	
BDIVN	391851.04N / 1050012.56W	Y	FB	TF	081.29	11.73	AT/BELOW 15000		
KUSHH	392014.98N / 1045241.70W	Y	FB	TF	076.48	06.00	AT 14000	AT 210K	
LDORA	392136.64N / 1044718.04W	Y	FB	TF	071.97	04.40	AT 13000	AT 210K	
KDEN:RWY 34L,RWY 34R,RWY 35L,RWY 35R									