

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

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Arrival Name <b>BRNKO (RNAV)</b>	Number <b>THREE</b>	STAR Computer Code <b>BRNKO.BRNKO3</b>	Superseded Number <b>TWO</b>	Dated <b>12/31/2020</b>	Effective Date
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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
SHRPE	SHRPE.BRNKO3	SHRPE	SHRPE						
			PYTNN	240.29	53.46	14000	7300		
			ELWAY	239.90	38.03	14000	7300		
			BRNKO	238.33	52.19	14000	7300		BETWEEN 14000 AND 16000

ARRIVAL ROUTE DESCRIPTION:

LANDING KAPA: FROM BRNKO ON TRACK 247.31/4.07 TO CROSS PICKK AT OR BELOW 14000, THEN ON TRACK 247.34/9.43 TO CROSS BLTZZ AT 12000 AND AT OR BELOW 250 KIAS, THEN ON TRACK 247.26/25.61 TO CROSS BWLIN AT 10000, THEN ON TRACK 189.26/14.19 TO CROSS REDZN AT 10000, THEN ON TRACK 176.15/5.33 TO CROSS PYDRT AT 9000, THEN ON TRACK 175.66/24.99 TO CROSS AAYES AT 9000, THEN ON TRACK 150.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBJC: FROM BRNKO ON TRACK 247.31/4.07 TO CROSS PICKK AT OR BELOW 14000, THEN ON TRACK 247.34/9.43 TO CROSS BLTZZ AT 12000 AND AT OR BELOW 250 KIAS, THEN ON TRACK 247.26/25.61 TO CROSS BWLIN AT 10000, THEN ON TRACK 189.26/14.19 TO CROSS REDZN AT 10000, THEN ON TRACK 176.15/5.33 TO CROSS PYDRT AT 9000. EXPECT RNAV (GPS) RWY 12L APPROACH OR VISUAL APPROACH AS ASSIGNED BY ATC.

LANDING KFNL/KGXY: FROM BRNKO ON TRACK 247.31/4.07 TO CROSS PICKK AT OR BELOW 14000, THEN ON TRACK 247.34/9.43 TO CROSS BLTZZ AT 12000 AND AT OR BELOW 250 KIAS, THEN ON TRACK 246.83/12.05 TO CROSS ORRNG AT 9000, THEN ON TRACK 246.83. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KLMO: FROM BRNKO ON TRACK 247.31/4.07 TO CROSS PICKK AT OR BELOW 14000, THEN ON TRACK 247.34/9.43 TO CROSS BLTZZ AT 12000 AND AT OR BELOW 250 KIAS, THEN ON TRACK 247.26/25.61 TO CROSS BWLIN AT 10000, THEN ON TRACK 189.26/14.19 TO CROSS REDZN AT 10000, THEN ON TRACK 176.15/5.00 TO CROSS HBALL AT 9000, THEN ON TRACK 176.15. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

NOTE: AIRCRAFT LANDING CENTENNIAL AIRPORT DO NOT FILE - TO BE ASSIGNED BY ATC.

NOTE: GPS REQUIRED.

FIXES AND/OR HOLDING PATTERNS:

COMMUNICATIONS:

CHART: DEN ARTCC

CHART: DEN APP CON

CHART: APA, BJC TWR



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**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
APA	DENVER	CO
GXY	GREELEY	CO
FNL	FORT COLLINS/LOVELAND	CO
BJC	DENVER	CO
LMO	LONGMONT	CO

**LOST COMMUNICATIONS PREFERENCES:**

LANDING KAPA: FROM AAYES DIRECT LOWRE AND EXECUTE RNAV (GPS) RWY 17L APPROACH.  
LANDING KBJC: FROM PYDRT EXECUTE RNAV (GPS) RWY 12L APPROACH.  
LANDING KLMO: FROM HBALL DIRECT KAYOO DIRECT WOLTS AND EXECUTE RNAV (GPS) RWY 29 APPROACH.  
LANDING KFNL/KGXY: PROCEED TO GLL VOR/DME, EXECUTE APPROACH.

**REMARKS:**

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: UNSAT.  
MAG VAR: KBJC 9E/2015.  
CHART AT ORRNG TERMINUS: LDG KFNL AND KGXY.  
CHART AT HBALL TERMINUS: LDG KLMO.  
CHART AT PYDRT TERMINUS: LDG KBJC.  
CHART AT AAYES TERMINUS: LDG KAPA.

**FLIGHT INSPECTED BY:**

**ORGANIZATION:     DATE:**

Flight Inspected Signature: \_\_\_\_\_

**DEVELOPED BY:**

GUY COPELAND

AJV-A433

10/23/2023

Developed By Signature: \_\_\_\_\_

**APPROVED BY:**

JOHNNIE BAKER

AJV-A430

Approved By Signature: \_\_\_\_\_

**CHANGES:**

1. Added chart note (NOTE: Aircraft landing Centennial Airport DO NOT FILE - TO BE ASSIGNED BY ATC.)
2. Lowered MEAs from SHRPE to ELWAY from FL180 to 14,000.
3. Raised MOCAs from SHRPE to PYTNN from 5100 to 7300 and PYTNN to ELWAY from 5900 to 7300.



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4. Removed remark about DME/DME coverage.
5. Removed "Do not chart MOCAs" FROM ADDITIONAL FLIGHT DATA.
6. Changed Procedural Data Note from TURBOJET AIRCRAFT ONLY to JET AIRCRAFT ONLY.
7. Replaced Procedural Data Notes GPS REQUIRED and RNAV 1 with PBN Requirement Note RNAV 1 - GPS.

**REASONS:**

1. ATC OPERATIONALLY REQUIRED NOTE.
2. Artificially high MEAs not required for DME/DME coverage. Procedure GPS required.
3. Per 8260.3e paragraph 2.2.7.d(e) MOCAS must be continually descending. MOCAs from SHRPE to ELWAY raised to be in compliance.
4. Procedure GPS required.
5. Use of MOCAs governed by 8260.3E paragraph 2.2.7.d (2)
6. Language updated to meet current standards.
7. Required to annotate PBN REQUIREMENTS IAW 8260.46J 2-1-1.f.6.

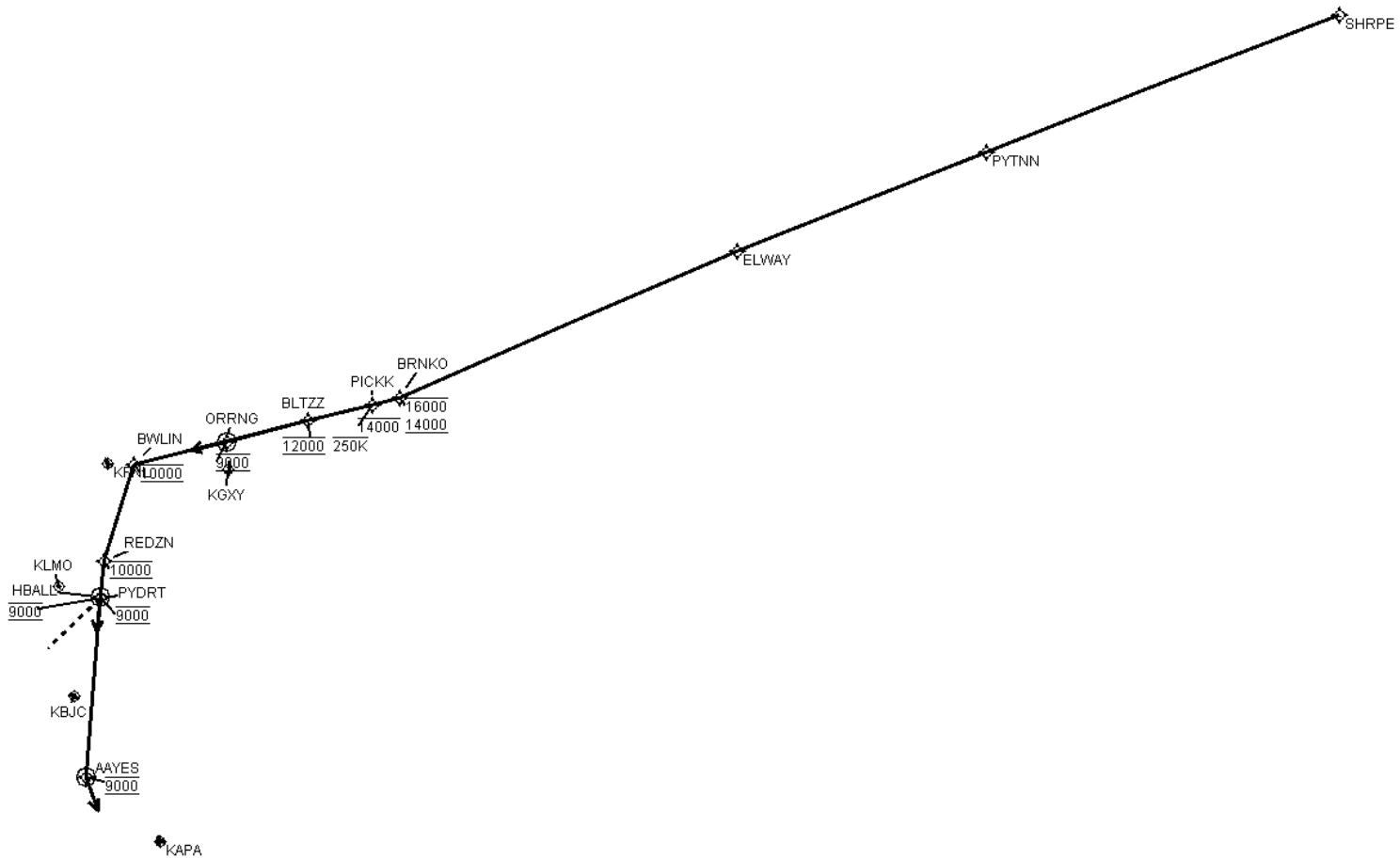


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Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 STAR (DATA RECORD)

Arrival Name BRNKO (RNAV)	Number THREE	STAR Computer Code BRNKO.BRNKO3		Superseded Number TWO		Dated 12/31/2020	Effective Date		
<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									
SHRPE	412947.87N / 1010936.76W	Y		IF					SHRPE.BRNKO3
PYTNN	411033.70N / 1021549.64W	Y	FB	TF	249.29	53.46			
ELWAY	405642.28N / 1030239.24W	Y	FB	TF	248.90	38.03			
BRNKO	403617.35N / 1040552.87W	Y	FB	TF	247.33	52.19	14000B16000		
Common Route									
BRNKO	403617.35N / 1040552.87W	Y		IF			14000B16000		BRNKO.BRNKO3
PICKK	403519.41N / 1041104.24W	Y	FB	TF	256.31	04.07	AT/BELOW 14000		
BLTZZ	403305.10N / 1042305.26W	Y	FB	TF	256.34	09.43	AT 12000	AT/BELOW 250K	
BWLIN	402655.27N / 1045540.09W	Y	FB	TF	256.26	25.61	AT 10000		
REDZN	401326.13N / 1050128.25W	Y	FB	TF	198.26	14.19	AT 10000		
PYDRT	400807.62N / 1050205.63W	Y	FB	TF	185.15	05.33	AT 9000		
AAYES	394312.01N / 1050443.35W	Y	FO	TF	184.66	24.99	AT 9000		
KAPA				FM	159.00				
Common Route									
BRNKO	403617.35N / 1040552.87W	Y		IF			14000B16000		BRNKO.BRNKO3
PICKK	403519.41N / 1041104.24W	Y	FB	TF	256.31	04.07	AT/BELOW 14000		
BLTZZ	403305.10N / 1042305.26W	Y	FB	TF	256.34	09.43	AT 12000	AT/BELOW 250K	
BWLIN	402655.27N / 1045540.09W	Y	FB	TF	256.26	25.61	AT 10000		
REDZN	401326.13N / 1050128.25W	Y	FB	TF	198.26	14.19	AT 10000		
PYDRT	400807.62N / 1050205.63W	Y	FB	TF	185.15	05.33	AT 9000		LANDING KBJC
Common Route									
BRNKO	403617.35N / 1040552.87W	Y		IF			14000B16000		BRNKO.BRNKO3
PICKK	403519.41N / 1041104.24W	Y	FB	TF	256.31	04.07	AT/BELOW 14000		
BLTZZ	403305.10N / 1042305.26W	Y	FB	TF	256.34	09.43	AT 12000	AT/BELOW 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>
ORRNG	403006.91N / 1043824.52W	Y	FO	TF	255.83	12.05	AT 9000		
KFNL,KGXY				FM	255.83				
Common Route									
BRNKO	403617.35N / 1040552.87W	Y		IF			14000B16000		BRNKO.BRNKO3
PICKK	403519.41N / 1041104.24W	Y	FB	TF	256.31	04.07	AT/BELOW 14000		
BLTZZ	403305.10N / 1042305.26W	Y	FB	TF	256.34	09.43	AT 12000	AT/BELOW 250K	
BWLIN	402655.27N / 1045540.09W	Y	FB	TF	256.26	25.61	AT 10000		
REDZN	401326.13N / 1050128.25W	Y	FB	TF	198.26	14.19	AT 10000		
HBALL	400827.12N / 1050203.34W	Y	FO	TF	185.15	05.00	AT 9000		
KLMO				FM	185.15				

