

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.
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Arrival Name HHOOD (RNAV)	Number SIX	STAR Computer Code HHOOD.HHOOD6	Superseded Number FIVE	Dated 10/31/2024	Effective Date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
BAYYR	BAYYR.HHOOD6	BAYYR	BAYYR						AT/ABOVE 13000
			HHOOD	254.31	14.14	8000	7100		BETWEEN 9000 AND 15000
JKNOX	JKNOX.HHOOD6	JKNOX	JKNOX						AT/ABOVE FL240
			MYTOE	255.45	26.86	17000	7100		AT/ABOVE 17000
			BAYYR	254.55	14.00	9000	7100		AT/ABOVE 13000
			HHOOD	254.31	14.14	8000	7100		BETWEEN 9000 AND 15000
JORAD	JORAD.HHOOD6	JORAD	JORAD						AT/ABOVE FL240
			LUUND	238.74	24.25	13000	7100		AT/ABOVE 17000
			YENTL	238.41	13.65	9000	7100		AT/ABOVE 13000
			HHOOD	238.14	14.16	8000	7100		BETWEEN 9000 AND 15000
JOTBA	JOTBA.HHOOD6	JOTBA	JOTBA						AT/ABOVE FL240
			SODDA	282.72	27.30	13000	7200		AT/ABOVE 17000
			RABBI	272.42	13.82	8000	7200		AT/ABOVE 13000
			HHOOD	272.19	14.13	8000	7200		BETWEEN 9000 AND 15000
RABBI	RABBI.HHOOD6	RABBI	RABBI						AT/ABOVE 13000
			HHOOD	272.19	14.13	8000	7200		BETWEEN 9000 AND 15000
SODDA	SODDA.HHOOD6	SODDA	SODDA						AT/ABOVE 17000
			RABBI	272.42	13.82	8000	7200		AT/ABOVE 13000
			HHOOD	272.19	14.13	8000	7200		BETWEEN 9000 AND 15000
YENTL	YENTL.HHOOD6	YENTL	YENTL						AT/ABOVE 13000
			HHOOD	238.14	14.16	8000	7100		BETWEEN 9000 AND 15000

ARRIVAL ROUTE DESCRIPTION:

LANDING RWY 10L/R: FROM HHOOD ON TRACK 257.44/10.24 TO BLRUN, THEN ON TRACK 270.32/13.79 TO CROSS SSDEE BETWEEN 9000 AND 11000, THEN ON TRACK 270.40/4.16 TO CROSS THEID BETWEEN 8000 AND 10000 AND AT 240 KIAS, THEN ON TRACK 270.35/4.25 TO CROSS EMZEY BETWEEN 7000 AND 8000 AND AT 230 KIAS, THEN ON TRACK 281.18/6.47 TO CROSS CIZZL AT OR ABOVE 6000 AND AT 210 KIAS, THEN ON TRACK 281.18. EXPECT RNP RWY 10L/R APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 21: FROM HHOOD ON TRACK 257.44/10.24 TO BLRUN, THEN ON TRACK 279.08/10.97 TO CROSS SOOZN AT 8000 AND AT 210 KIAS, THEN ON TRACK 279.08. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 28L/R: FROM HHOOD ON TRACK 257.44/9.73 TO CROSS BEEVS AT OR ABOVE 7100 AND AT 230 KIAS, THEN ON TRACK 257.28/4.01 TO CROSS SHAFR AT 6700 AND AT 210 KIAS. EXPECT RNAV OR ILS RWY 28L/R APPROACH.



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PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280 KIAS. IF UNABLE, ADVISE ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART: BTG VORTAC, UBG VOR/DME, BUXOM, CREAK, NACIY, NNUTT, REEDI.

CHART HOLDING AT SODDA: HOLD E, LT, 272.72 INBOUND, 10 NM LEGS.

CHART HOLDING AT JKNOX: HOLD E, RT, 255.45 INBOUND, 10 NM LEGS.

CHART HOLDING AT JOTBA: HOLD E, LT, 282.72 INBOUND, 10 NM LEGS.

CHART HOLDING AT LUUND: HOLD NE, LT, 238.41 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: TWR, GND CON

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
PDX	PORTLAND	OR

LOST COMMUNICATIONS PREFERENCES:

FOLLOW PUBLISHED CROSSING ALTITUDES AND THEN MAINTAIN LOWEST RWY TRANSITION ALTITUDE UNTIL ESTABLISHED ON APPROACH PROCEDURE.

RWY 10L/R: AFTER CIZZL PROCEED TO NNUTT, THEN TURN LEFT TO BUXOM AND PROCEED ON THE ILS RWY 10L APPROACH.

RWY 21: AFTER SOOZN TURN RIGHT TO CREAK AND PROCEED ON THE LOC/DME RWY 21 APPROACH.

RWY 28L/R: AFTER SHAFR PROCEED ON THE ILS OR LOC RWY 28R APPROACH.

REMARKS:

DEPICT RWY 28L/R TRANSITION AVOIDING BLRUN.

DEPICT RWY 21 AND RWY 10L/R TRANSITIONS AVOIDING BEEVS.

FOR OPERATIONAL PURPOSES/NECESSITY, ATC CANNOT HAVE THE ALTITUDE RESTRICTION LISTED ON WP BEEVS APPLIED TO THE R21 AND R10L/R TRANSITIONS.

7100 FT MOCA VALUES DUE TO 5099 MSL AAO LOCATED DOWNSTREAM IN RWY TRANSITIONS (DO NOT LOWER).

LOST COMM: RWY 10L CO IS 1713 MSL AAO, 454106.00N/1225454.00W; RWY 21 CO IS 4574 MSL AAO, 454451.00N/1221421.00W. LOST COMM RWY 28R HAS DIRECT IAP CONNECTION BETWEEN STAR/IAP.

RNP RWY 10L/R APPROACHES REQUIRE RF TURNS FROM CIZZL.



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ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 MAG VAR: PDX 16E/2010.
 CHART AT CIZZL TERMINUS: PDX LDG RWY 10L/R.
 CHART AT SOOZN TERMINUS: PDX LDG RWY 21.
 CHART AT SHAFR TERMINUS: PDX LDG RWY 28L/R.

FLIGHT INSPECTED BY:

JORDAN ROLIH

ORGANIZATION:

AJF

DATE:

12/22/2025

Flight Inspected Signature:

Digitally signed by

ALLAN WILL

Dec 29, 2025

Digitally signed by

ALLAN WILL

Dec 29, 2025

Digitally signed by

ALLAN WILL

Dec 29, 2025

DEVELOPED BY:

TAYLOR GIBSON

AJV-A330

08/08/2025

Developed By Signature:

APPROVED BY:

KYLE THOMPSON

AJV-A330

Approved By Signature:

CHANGES:

1. BLRUN MOVED 481 FT N.
2. BEEVS MOVED 2.49 NM W.
3. CHANGED SOOZN FM LEG MC FROM 279.47 TO 279.08.
4. BEEVS REMOVED FROM RWY 21 AND RWY 10L/R TRANSITIONS.
5. BLRUN REMOVED FROM RWY 28L/R TRANSITION.
6. AMENDED RWY 21, RWY 28L/28R, AND RWY 10L/10R TRANSITIONS TO BEGIN AT HHOOD INSTEAD OF BLRUN; REMOVED COMMON ROUTE.
7. INCREASED ENROUTE TRANSITION MOCA VALUES.
8. CHANGED RWY 10L/R LOST COMM WORDING FROM "MAINTAIN RWY TRANSITION..." TO "FOLLOW PUBLISHED CROSSING ALTITUDES AND THEN MAINTAIN LOWEST RWY TRANSITION ALTITUDE UNTIL ESTABLISHED ON APPROACH PROCEDURE".
9. REMOVED PROCEDURAL DATA NOTE: FOR NON-GPS EQUIPPED AIRCRAFT LANDING RWY 21, CVO DME MUST BE OPERATIONAL.
10. RWY 10L/R TRANSITION REWORDED FROM EXPECT RADAR VECTORS TO EXPECT RNP RWY 10L/R APPROACH OR RADAR VECTORS TO FINAL APPROACH COURSE.
11. ADDED REMARK "RNP RWY 10L/R APPROACHES REQUIRE RF TURNS FROM CIZZL".

REASONS:

1. STRAIGHTENS PATH HHOOD TO SHAFR.
2. PROVIDES STEP-DOWN MOCA PROTECTION ON RWY 28L/R TRANSITION.
3. MATCHES INBOUND LEG TO SOOZN.
4. RESTRICTIONS AT BEEVS APPLY TO ONLY RWYS 28L/R.
5. NO LONGER NEEDED ON THIS TRANSITION.
6. NEW FIX LOCATIONS AND FIX USAGE.
7. UPDATED OBST EVALUATION.
8. PROVIDE ADDITIONAL CLARITY FOR PILOTS.



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- 9. UPDATED DME ANALYSIS NO LONGER DESIGNATES CVO AS A CRITICAL DME.
- 10. PROVIDE ADDITIONAL CLARITY FOR PILOTS.
- 11. ATC AWARENESS TO VALIDATE EQUIPMENT SUFFIX.

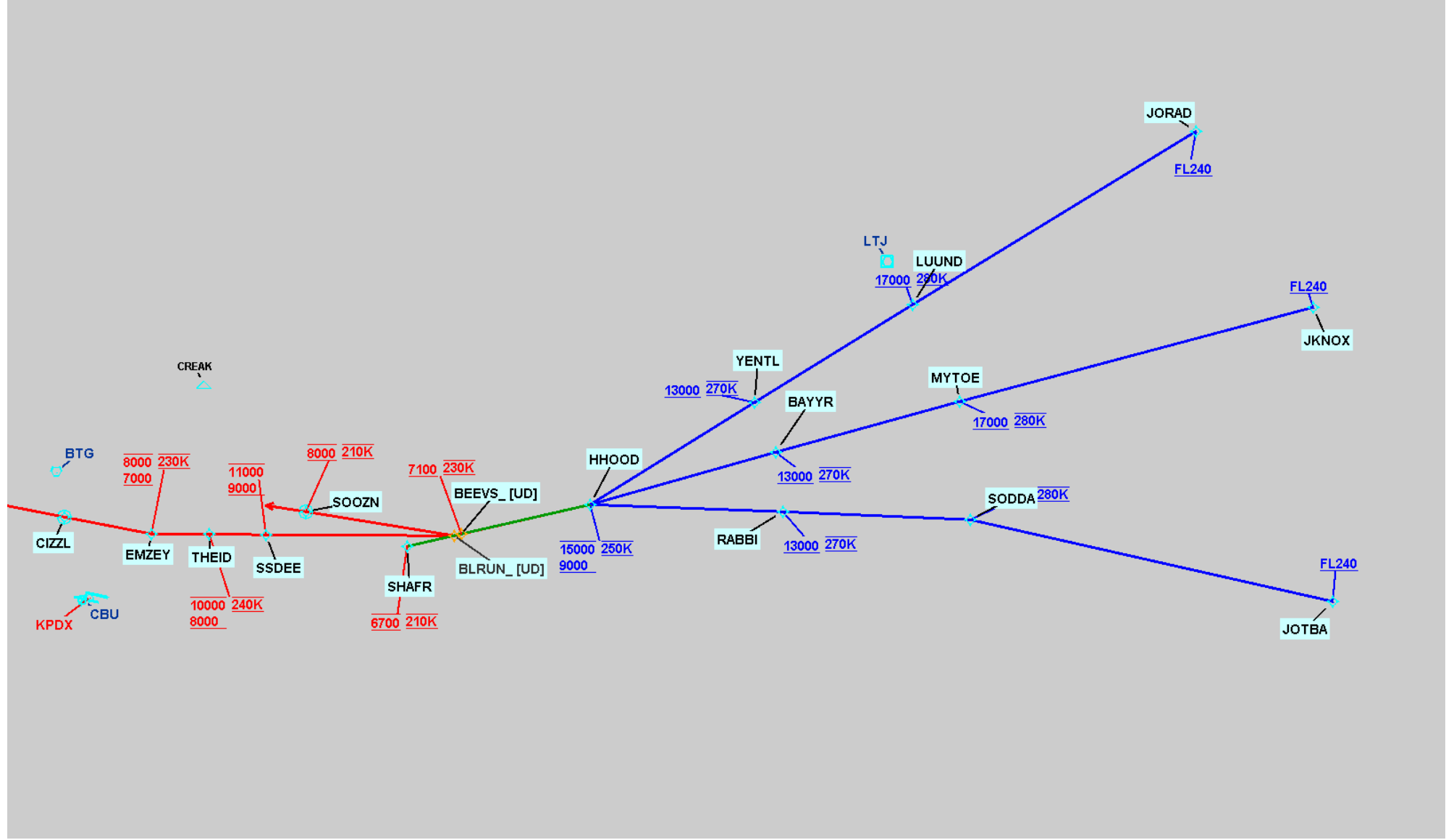


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Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION
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 STAR (DATA RECORD)

Arrival Name HHOOD (RNAV)	Number SIX	STAR Computer Code HHOOD.HHOOD6					Superseded Number FIVE	Dated 10/31/2024	Effective Date
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BAYYR	453143.25N / 1212246.89W	Y		IF			AT/ABOVE 13000	AT 270K	BAYYR.HHOOD6
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	270.31	14.14	9000B15000	AT 250K	
En Route Transition									
JKNOX	453102.65N / 1202440.73W	Y		IF			AT/ABOVE FL240		JKNOX.HHOOD6
MYTOE	453136.91N / 1210252.08W	Y	FB	TF	271.45	26.86	AT/ABOVE 17000	AT 280K	
BAYYR	453143.25N / 1212246.89W	Y	FB	TF	270.55	14.00	AT/ABOVE 13000	AT 270K	
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	270.31	14.14	9000B15000	AT 250K	
En Route Transition									
JORAD	454549.18N / 1203126.48W	Y		IF			AT/ABOVE FL240		JORAD.HHOOD6
LUUND	453921.44N / 1210447.93W	Y	FB	TF	254.74	24.25	AT/ABOVE 17000	AT 280K	
YENTL	453539.83N / 1212331.51W	Y	FB	TF	254.41	13.65	AT/ABOVE 13000	AT 270K	
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	254.14	14.16	9000B15000	AT 250K	
En Route Transition									
JOTBA	451000.70N / 1203112.27W	Y		IF			AT/ABOVE FL240		JOTBA.HHOOD6
SODDA	452302.63N / 1210510.62W	Y	FB	TF	298.72	27.30	AT/ABOVE 17000	AT 280K	
RABBI	452723.04N / 1212348.37W	Y	FB	TF	288.42	13.82	AT/ABOVE 13000	AT 270K	
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	288.19	14.13	9000B15000	AT 250K	
En Route Transition									
RABBI	452723.04N / 1212348.37W	Y		IF			AT/ABOVE 13000	AT 270K	RABBI.HHOOD6
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	288.19	14.13	9000B15000	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>
En Route Transition									
SODDA	452302.63N / 1210510.62W	Y		IF			AT/ABOVE 17000	AT 280K	SODDA.HHOOD6
RABBI	452723.04N / 1212348.37W	Y	FB	TF	288.42	13.82	AT/ABOVE 13000	AT 270K	
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	288.19	14.13	9000B15000	AT 250K	
En Route Transition									
YENTL	453539.83N / 1212331.51W	Y		IF			AT/ABOVE 13000	AT 270K	YENTL.HHOOD6
HHOOD	453146.12N / 1214254.05W	Y	FB	TF	254.14	14.16	9000B15000	AT 250K	
Runway Transition									
HHOOD	453146.12N / 1214254.05W	Y		IF			9000B15000	AT 250K	
BLRUN	453222.11N / 1215726.60W	Y	FB	TF	273.44	10.24			
SSDEE	453613.00N / 1221617.63W	Y	FB	TF	286.32	13.79	9000B11000		
THEID	453723.35N / 1222158.96W	Y	FB	TF	286.40	04.16	8000B10000	AT 240K	
EMZEY	453835.03N / 1222747.97W	Y	FB	TF	286.35	04.25	7000B8000	AT 230K	
CIZZL	454132.02N / 1223600.67W	Y	FO	TF	297.18	06.47	AT/ABOVE 6000	AT 210K	
KPDX:RWY 10L,RWY 10R				FM	297.18				
Runway Transition									
HHOOD	453146.12N / 1214254.05W	Y		IF			9000B15000	AT 250K	
BLRUN	453222.11N / 1215726.60W	Y	FB	TF	273.44	10.24			
SOOZN	453700.23N / 1221135.95W	Y	FO	TF	295.08	10.97	AT 8000	AT 210K	
KPDX:RWY 21				FM	295.08				
Runway Transition									
HHOOD	453146.12N / 1214254.05W	Y		IF			9000B15000	AT 250K	
BEEVS	453220.36N / 1215643.13W	Y	FB	TF	273.44	09.73	AT/ABOVE 7100	AT 230K	
SHAFR	453233.99N / 1220225.15W	Y	FB	TF	273.28	04.01	AT 6700	AT 210K	
KPDX:RWY 28L,RWY 28R									