

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date				
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015					
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
CACYE	CACYE.RAVNN7	CACYE	CACYE						
			TBART	105.38	65.39	17000	6900		
			WYTEA	078.24	24.85	14000	6300		
			YAEGR	078.54	05.00	10000	6300		AT FL270
			AKELL	082.83	18.78	10000	6300		AT/ABOVE FL240
			CAASH	083.51	07.75	10000	5900		AT/ABOVE FL220
			ECHOZ	085.71	06.56	10000	3600		AT/ABOVE FL200
			DNKEY	085.66	09.96	10000	3400		AT FL190
			FIMBO	096.57	22.65	10000	3000		AT 16000
			UDUDE	096.78	06.52	10000	2100		AT/ABOVE 13000
			REXEE	096.89	07.45	10000	2100		AT/ABOVE 12000
			CAPKO	096.98	13.05	5000	2100		AT 9000
CJAAE	CJAAE.RAVNN7	CJAAE	CJAAE						
			JOOEY	077.54	21.50	17000	6700		
			TBART	077.80	36.90	17000	6700		
			WYTEA	078.24	24.85	14000	6300		
			YAEGR	078.54	05.00	10000	6300		AT FL270
			AKELL	082.83	18.78	10000	6300		AT/ABOVE FL240
			CAASH	083.51	07.75	10000	5900		AT/ABOVE FL220
			ECHOZ	085.71	06.56	10000	3600		AT/ABOVE FL200
			DNKEY	085.66	09.96	10000	3400		AT FL190
			FIMBO	096.57	22.65	10000	3000		AT 16000
			UDUDE	096.78	06.52	10000	2100		AT/ABOVE 13000
			REXEE	096.89	07.45	10000	2100		AT/ABOVE 12000
			CAPKO	096.98	13.05	5000	2100		AT 9000
HBUDA	HBUDA.RAVNN7	HBUDA	HBUDA						AT/ABOVE FL250
			JBAAY	036.91	14.84	12000	2600		AT FL230

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Arrival Name RAVNN (RNAV)		Number SEVEN		STAR Computer Code CAPKO.RAVNN7	Superseded Number SIX			Dated 12/10/2015	Effective Date
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			TOOJM	037.32	12.11	9000	2100		AT FL230
			ACROW	036.90	11.16	9000	2100		AT/ABOVE FL210
			DFORT	022.66	10.03	9000	2100		AT/ABOVE FL180
			WALKN	022.69	08.42	5000	2100		BETWEEN 15000 AND 17000
			JAYOH	045.95	13.48	5000	2100		BETWEEN 11000 AND 12000
			CAPKO	054.17	12.80	5000	2100		AT 9000
JOOEY	JOOEY.RAVNN7	JOOEY	JOOEY						
			TBART	077.80	36.90	17000	6700		
			WYTEA	078.24	24.85	14000	6300		
			YAEGR	078.54	05.00	10000	6300		AT FL270
			AKELL	082.83	18.78	10000	6300		AT/ABOVE FL240
			CAASH	083.51	07.75	10000	5900		AT/ABOVE FL220
			ECHOZ	085.71	06.56	10000	3600		AT/ABOVE FL200
			DNKEY	085.66	09.96	10000	3400		AT FL190
			FIMBO	096.57	22.65	10000	3000		AT 16000
			UDUDE	096.78	06.52	10000	2100		AT/ABOVE 13000
			REXEE	096.89	07.45	10000	2100		AT/ABOVE 12000
			ELDEE	096.98	03.55	10000	2100		AT/BELOW 11000
			CAPKO	097.02	09.50	5000	2100		AT 9000
THHMP	THHMP.RAVNN7	THHMP	THHMP						AT/ABOVE FL250
			FZEEK	021.78	13.39	9000	2100		AT FL230
			WHHTE	022.60	11.76	9000	2100		AT FL230
			ACROW	022.63	09.87	9000	2100		AT/ABOVE FL210
			DFORT	022.66	10.03	9000	2100		AT/ABOVE FL180
			WALKN	022.69	08.42	5000	2100		BETWEEN 15000 AND 17000
			JAYOH	045.95	13.48	5000	2100		BETWEEN 11000 AND 12000
			CAPKO	054.17	12.80	5000	2100		AT 9000

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	

ARRIVAL ROUTE DESCRIPTION:

KBWI: FROM CAPKO ON TRACK 071.89/9.00 TO CROSS RAVNN BETWEEN 6000 AND 7000.

LANDING KBWI RWY 10: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 359.26/7.47 TO CROSS NAVEY AT 5000 AND AT 230 KIAS, THEN ON TRACK 310.87/7.40 TO CROSS ANCRR AT 4000 AND AT 210 KIAS, THEN ON TRACK 311.10/5.20 TO LURRL, THEN ON TRACK 299.92/2.80 TO HUNNN, THEN ON TRACK 299.92/2.00 TO CROSS HUTOO AT 4000, THEN ON TRACK 299.92. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 15L: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 033.41/11.82 TO CROSS BRRKE AT 4000, THEN ON TRACK 032.73/9.62 TO CROSS DRZZT AT 4000, THEN ON TRACK 337.71/11.27 TO DAAXX, THEN ON TRACK 301.22/9.56 TO CROSS DADLE AT 4000 AND AT 210 KIAS, THEN ON TRACK 333.97/2.58 TO CROSS RYJON AT 4000, THEN ON TRACK 335.19. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 15R: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 359.26/7.47 TO CROSS NAVEY AT 5000 AND AT 230 KIAS, THEN ON TRACK 310.87/7.40 TO CROSS ANCRR AT 4000 AND AT 210 KIAS, THEN ON TRACK 311.10/5.20 TO LURRL, THEN ON TRACK 299.92/2.80 TO HUNNN, THEN ON TRACK 003.04/11.49 TO CROSS ZARTZ AT 4000 AND AT 210 KIAS, THEN ON TRACK 337.71/2.00 TO CROSS ZOEYY AT 4000, THEN ON TRACK 337.71. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 28: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 020.11/9.27 TO CROSS TOGAH AT 5000 AND AT 210 KIAS, THEN ON TRACK 019.66/4.90 TO CROSS BMTR AT 4000, THEN ON TRACK 105.57/3.00 TO CROSS FHRST AT 4000, THEN ON TRACK 105.57. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 33L: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 007.96/4.14 TO CROSS KOOLZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 007.96. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI RWY 33R: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 025.78/10.27 TO CROSS DUDDS AT OR ABOVE 3000. EXPECT ILS OR LOC RWY 33R APPROACH.

LANDING KMTN: FROM CAPKO ON TRACK 071.89/9.00 TO CROSS RAVNN BETWEEN 6000 AND 7000, THEN ON TRACK 071.99/5.00 TO CROSS MALXX AT 6000, THEN ON TRACK 072.05/8.12 TO CROSS AMRTN AT 5000, THEN ON HEADING 073.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

NOTE: ALL PART 91, 101, 103, 105, 125, 133, 135, and 137 FLIGHT OPERATIONS ARE PROHIBITED ON THE CACYE/CJAAE/JOOEY TRANSITIONS.

CHART NOTE: DO NOT FILE HBUDA TRANSITION - TO BE ASSIGNED BY ATC.

CHART NOTE: DO NOT FILE JOOEY TRANSITION - TO BE ASSIGNED BY ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT ACROW: HOLD SW, LT, 022.63 INBOUND, 10 NM LEGS.

CHART HOLDING AT CAASH: HOLD W, LT, 083.51 INBOUND, 10 NM LEGS.

CHART HOLDING AT HBUDA: HOLD SW, RT, 030.33 INBOUND, 10 NM LEGS.

CHART HOLDING AT JAYOH: HOLD SW, LT, 045.95 INBOUND, 10 NM LEGS, 210 KIAS.

CHART HOLDING AT RAVNN: HOLD W, RT, 071.89 INBOUND, 5 NM LEGS, 210 KIAS.

CHART HOLDING AT TBART: HOLD W, LT, 077.54 INBOUND, 10 NM LEGS.

CHART HOLDING AT THHMP: HOLD S, LT, 013.11 INBOUND, 10 NM LEGS.

CHART DBOGG AS STAND-ALONE FIX.

COMMUNICATIONS:

CHART: POTOMAC APP CON

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KBWI	BALTIMORE	MD
KMTN	BALTIMORE	MD

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
MAG VAR: KBWI 11W/2000.
CHART AT FHRST TERMINUS: KBWI LDG RWY 28
CHART AT HUTOO TERMINUS: KBWI LDG RWY 10
CHART AT RYJON TERMINUS: KBWI LDG RWY 15L
CHART AT KOOLZ TERMINUS: KBWI LDG RWY 33L
CHART AT DUDDS TERMINUS: KBWI LDG RWY 33R
CHART AT ZOEYY TERMINUS: KBWI LDG RWY 15R
CHART AT AMRTN TERMINUS: LDG KMTN

FLIGHT INSPECTED BY:

MICHAEL G CAMPBELL

ORGANIZATION: DATE:

FPO 04/25/2024

Flight Inspected Signature:

Digitally signed by

ALLAN WILL

May 06, 2024

Digitally signed by

ALLAN WILL

May 06, 2024

Digitally signed by

ALLAN WILL

May 06, 2024

DEVELOPED BY:

Christopher Stocking (FAA); Adam Searcy (NATCA)

ESC PBN Co-Leads 02/28/2024

Developed By Signature:

APPROVED BY:

ALLAN WILL (MANAGER)

AJV-A423

Approved By Signature:

CHANGES:

1. REMOVED: PROCEDURAL DATA NOTE FROM PLAN VIEW: HUNNN Landing BWI East: Rwy 10, 15L/R: Expect RADAR vectors to final approach course after HUNNN.
2. REMOVED: PROCEDURAL DATA NOTE FROM PLAN VIEW: JETNA: Landing KBWI West: Rwy 28, 33L/R: Expect assigned instrument approach or RADAR vectors to final approach course after JETNA.
3. REMOVED: STRGL, KEMMP, SLOAF, HVQ AND BKW FROM PROCEDURE.
4. AMENDED HVQ TRANSITION: REMOVED HVQ AND RENAMED CAYCE TRANSITION.
5. AMENDED BKW TRANSITION: REMOVED BKW AND RENAMED CJAAE TRANSITION.
6. MOVED: RAVNN 3.19 NM NE, AND AMENDED ALTITUDE CONSTRAINT FROM "AT 6000" TO "6000B7000".

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	
7. MOVED: LURRL 732 FT SE. 8. ADDED NEW WPS & CONSTRAINTS: HUTOO "AT 4000"; RYJON "AT 4000"; ZARTZ "AT 4000/210 KIAS"; BRRKE "AT 4000"; DRZZT "AT 4000"; DAAXX; DADLE "AT 4000/210 KIAS"; ZOEYY "AT 4000"; TOGAH "AT 5000/210 KIAS; BMTTR "AT 4000"; FHRST "AT 4000"; KOOLZ "AT 5000/210 KIAS"; MALXX "AT 6000"; SEED "5000B6000"; ELDEE "AOB 11000." 9. AMENDED RWY 10 TRANSITION. 10. AMENDED RWY 15L/R TRANSITIONS. 11. AMENDED RWY 28 TRANSITION. 12. AMENDED RWY 33L/R TRANSITIONS. 13. AMENDED KMTN TRANSITIONS. 14. ADDED: NAVEY CONSTRAINT "AT 5000/230KIAS"; ANCRR CONSTRAINT "AT 4000/210KIAS"; AMRTN "AT 5000" 15. AMENDED: REXEE CONSTRAINT FROM "AT 12000" TO "AOA 12000"; CAASH CONSTRAINT FROM "AOA FL220" TO "AOA FL220/280KIAS"; AKELL CONSTRAINT FROM "AOA FL240" TO "AOA FL240/290KIAS." 16. ADDED: DUDDS WITH "AOA 3000" CONSTRAINT 17. REMOVED: "OR AS ASSIGNED BY ATC" FROM LANDING KMTN ARRIVAL ROUTE DESCRIPTION. 18. REMOVED: KDMW AND ASSOCIATED TRANSITION FROM PROCEDURE. 19. AMENDED: ALL MEAS ABOVE FL180 LOWERED TO FL180. 20. REMOVED: THE WORD "REQUIRED" FROM NOTE GPS REQUIRED. 21. LOWERED ALL ENROUTE TRANSITION MEA VALUES. 22. CHANGED: PROHIBITED NOTE FROM "NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA AVOID SURFACE TO 18000 MSL." TO "NOTE: ALL PART 91, 101, 103, 105, 125, 133, 135, and 137 FLIGHT OPERATIONS ARE PROHIBITED ON THE CACYE/CJAAE/JOOEY TRANSITIONS." 23. REMOVED: MEA/MOCA VALUES FROM COMMON ROUTE/RWY TRANSITIONS. 24. REMOVED: AIRPORT NAMES FROM AIRPORTS SERVED. 25. CHANGED TURBOJET NOTE TO REFLECT JETS. 26. REMOVED: RECOMMENDED NAVAID FROM 17.2. 27. CORRECRED: ACROW HOLDING CORRECTED TO SHOW 022.63 ON 17.1 FORM.					

REASONS:

- 1-2. CHART NOTE CRITERIA.
- 3-5. ATC REQUEST.
- 6-16. ATC REQUEST, PROVIDES MORE EFFICIENT ROUTING AND ALIGNS WITH ACTUAL OPERATIONAL REQUIREMENTS TO KBWI.
17. CHART NOTE CRITERIA.
18. ATC REQUEST, AIRPORT SERVED BY ANOTHER PROCEDURE.
19. DME/DME CRITERIA.
21. ATC REQUEST.
22. ENROUTE TRANSITIONS RENAMED.
23. NO LONGER REQUIRED.
- 24-25. IAW 8260.19I.
26. ALIGNS HOLDING LEG WITH ATC EXPECTATIONS.

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.

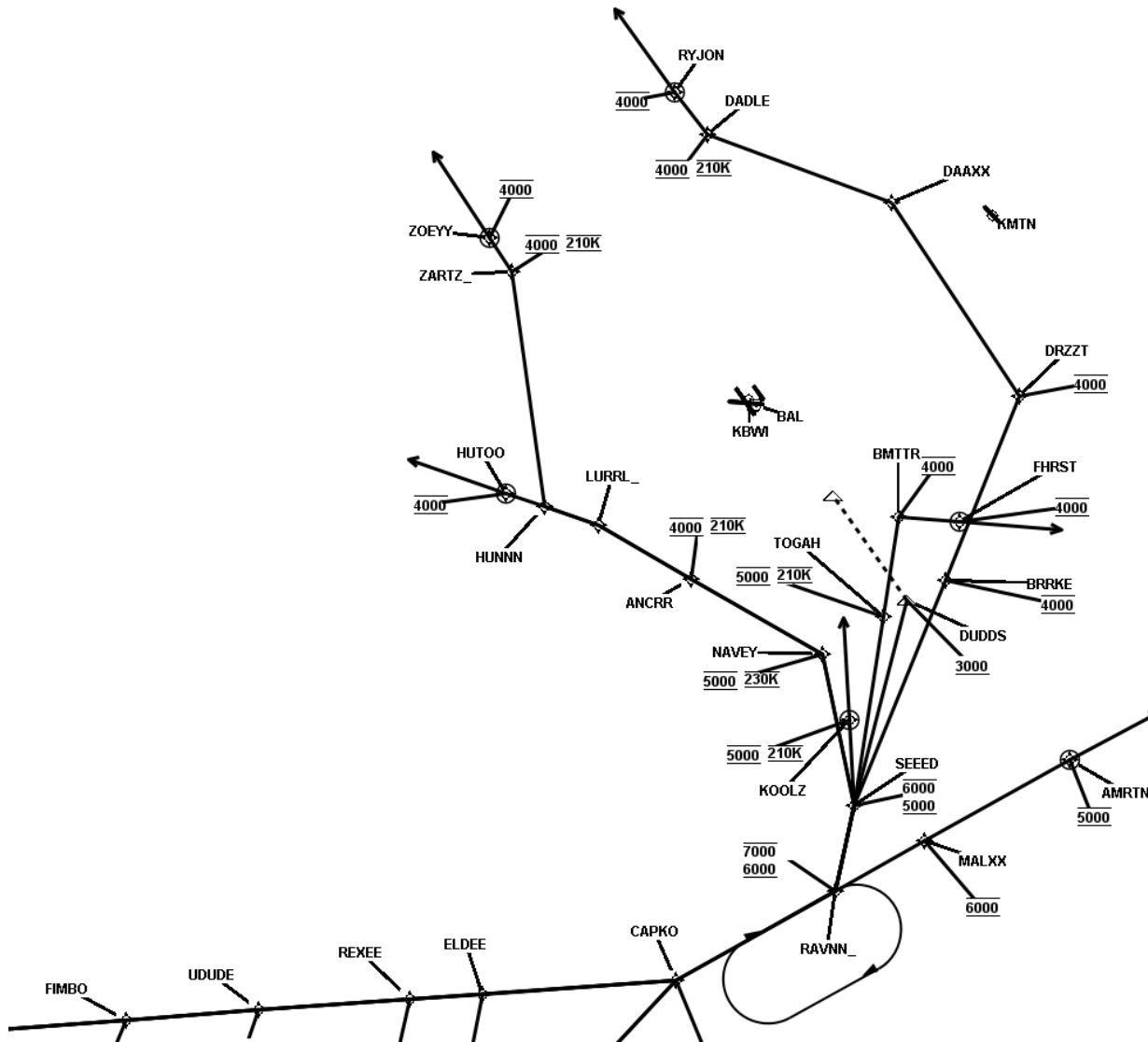
Graphic Depiction 1



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.

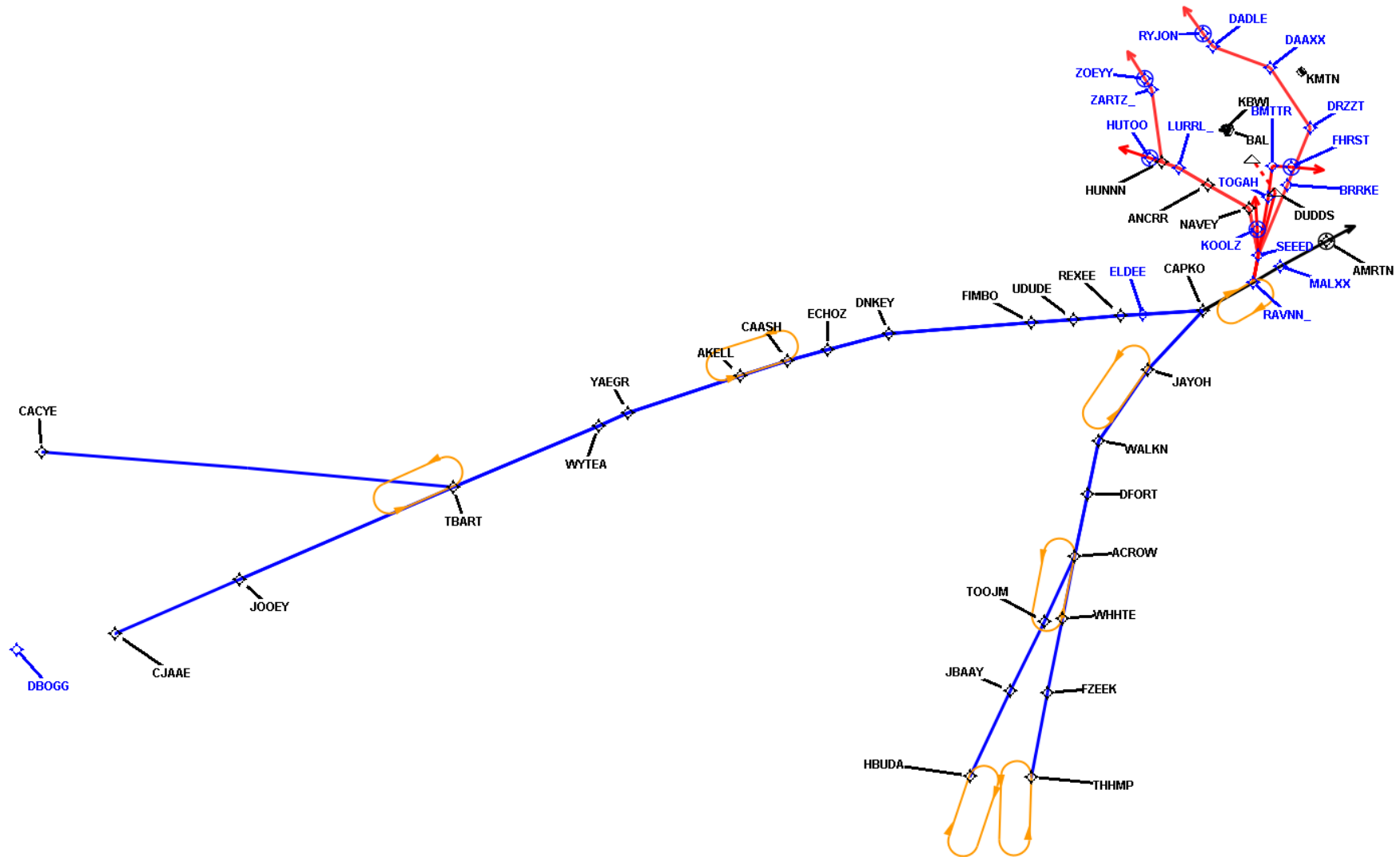
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	
Graphic Depiction 2					



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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	
Graphic Depiction 3					

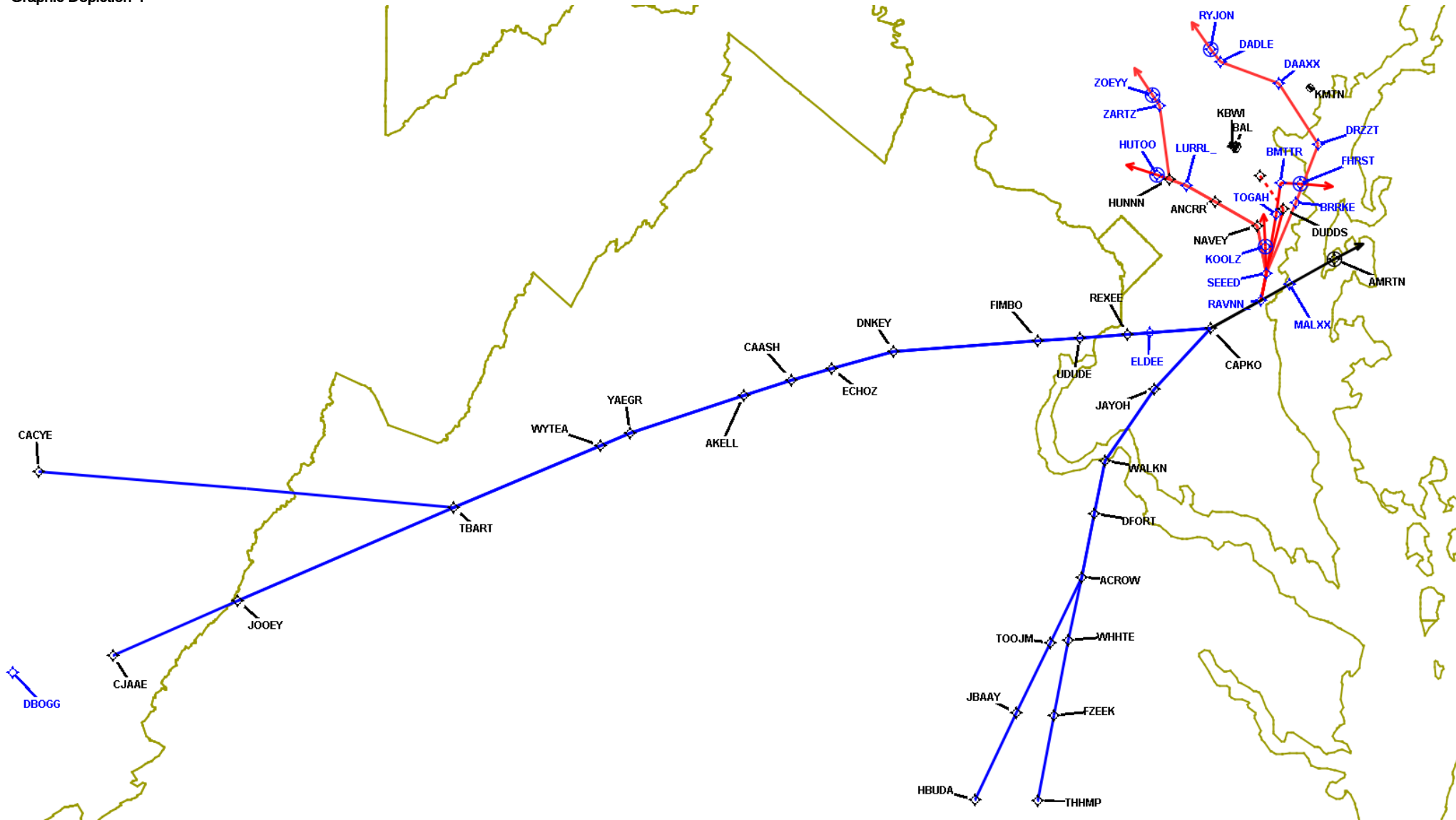


FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD TERMINAL ARRIVAL (STAR)

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
RAVNN (RNAV)	SEVEN	CAPKO.RAVNN7	SIX	12/10/2015	

Graphic Depiction 4



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name RAVNN (RNAV)		Number SEVEN		STAR Computer Code CAPKO.RAVNN7		Superseded Number SIX		Dated 12/10/2015	Effective Date
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
CACYE	382015.58N / 0803816.68W	Y		IF					CAYCE.RAVNN7
TBART	381446.33N / 0791530.80W	Y	FB	TF	094.38	65.39			
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240	AT 290K	
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220	AT 280K	
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT/ABOVE 12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	085.98	13.05	AT 9000	AT 250K	
En Route Transition									
CJAAE	375149.68N / 0802331.30W	Y		IF					CJAAE.RAVNN7
JOOEY	380021.08N / 0795834.00W	Y	FB	TF	066.54	21.50			
TBART	381446.33N / 0791530.80W	Y	FB	TF	066.80	36.90			
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240	AT 290K	
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220	AT 280K	
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT/ABOVE 12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	085.98	13.05	AT 9000	AT 250K	



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name RAVNN (RNAV)	Number SEVEN		STAR Computer Code CAPKO.RAVNN7		Superseded Number SIX		Dated 12/10/2015		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									
HBUDA	372935.62N / 0773136.86W	Y		IF			AT/ABOVE FL250	AT 280K	HBUDA.RAVNN7
JBAAY	374257.29N / 0772326.35W	Y	FB	TF	025.91	14.84	AT FL230	AT 280K	
TOOJM	375348.97N / 0771639.40W	Y	FB	TF	026.32	12.11	AT FL230		
ACROW	380351.93N / 0771028.98W	Y	FB	TF	025.90	11.16	AT/ABOVE FL210		
DFORT	381341.68N / 0770754.66W	Y	FB	TF	011.66	10.03	AT/ABOVE FL180		
WALKN	382156.95N / 0770544.54W	Y	FB	TF	011.69	08.42	15000B17000	AT 280K	
JAYOH	383300.31N / 0765553.86W	Y	FB	TF	034.95	13.48	11000B12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	043.17	12.80	AT 9000	AT 250K	
En Route Transition									
JOOEY	380021.08N / 0795834.00W	Y		IF					JOOEY.RAVNN7
TBART	381446.33N / 0791530.80W	Y	FB	TF	066.80	36.90			
WYTEA	382420.12N / 0784621.44W	Y	FB	TF	067.24	24.85			
YAEGR	382614.68N / 0784028.57W	Y	FB	TF	067.54	05.00	AT FL270		
AKELL	383204.23N / 0781743.80W	Y	FB	TF	071.83	18.78	AT/ABOVE FL240	AT 290K	
CAASH	383423.77N / 0780818.29W	Y	FB	TF	072.51	07.75	AT/ABOVE FL220	AT 280K	
ECHOZ	383607.45N / 0780013.62W	Y	FB	TF	074.71	06.56	AT/ABOVE FL200		
DNKEY	383845.05N / 0774758.01W	Y	FB	TF	074.66	09.96	AT FL190		
FIMBO	384026.49N / 0771908.04W	Y	FB	TF	085.57	22.65	AT 16000		
UDUDE	384055.04N / 0771049.81W	Y	FB	TF	085.78	06.52	AT/ABOVE 13000		
REXEE	384126.70N / 0770120.49W	Y	FB	TF	085.89	07.45	AT/ABOVE 12000		
ELDEE	384141.57N / 0765649.11W	Y	FB	TF	085.98	03.55	AT/BELOW 11000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	086.02	09.50	AT 9000	AT 250K	
En Route Transition									
THHMP	372929.47N / 0771908.75W	Y		IF			AT/ABOVE FL250	AT 280K	THHMP.RAVNN7
FZEEK	374239.52N / 0771559.43W	Y	FB	TF	010.78	13.39	AT FL230		
WHHTE	375411.42N / 0771300.13W	Y	FB	TF	011.60	11.76	AT FL230		
ACROW	380351.93N / 0771028.98W	Y	FB	TF	011.63	09.87	AT/ABOVE FL210		

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name RAVNN (RNAV)		Number SEVEN		STAR Computer Code CAPKO.RAVNN7		Superseded Number SIX		Dated 12/10/2015	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>
DFORT	381341.68N / 0770754.66W	Y	FB	TF	011.66	10.03	AT/ABOVE FL180		
WALKN	382156.95N / 0770544.54W	Y	FB	TF	011.69	08.42	15000B17000	AT 280K	
JAYOH	383300.31N / 0765553.86W	Y	FB	TF	034.95	13.48	11000B12000		
CAPKO	384220.52N / 0764442.54W	Y	FB	TF	043.17	12.80	AT 9000	AT 250K	
Common Route									
CAPKO	384220.52N / 0764442.54W	Y		IF			AT 9000	AT 250K	CAPKO.RAVNN7
RAVNN	384643.06N / 0763439.23W	Y	FB	TF	060.89	09.00	6000B7000		
Common Route									
CAPKO	384220.52N / 0764442.54W	Y		IF			AT 9000	AT 250K	CAPKO.RAVNN7
RAVNN	384643.06N / 0763439.23W	Y	FB	TF	060.89	09.00	6000B7000		
MALXX	384908.54N / 0762903.53W	Y	FB	TF	060.99	05.00	AT 6000		
AMRTN	385304.27N / 0761957.55W	Y	FO	TF	061.05	08.12	AT 5000		
KMTN				VM	062.00				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		
NAVEY	385810.99N / 0763529.26W	Y	FB	TF	348.26	07.47	AT 5000	AT 230K	
ANCRR	390152.15N / 0764343.60W	Y	FB	TF	299.87	07.40	AT 4000	AT 210K	
LURRL	390428.63N / 0764930.23W	Y	FB	TF	300.10	05.20			
HUNNN	390523.10N / 0765254.35W	Y	FB	TF	288.92	02.80			
HUTOO	390602.02N / 0765520.17W	Y	FO	TF	288.92	02.00	AT 4000		
KBWI:RWY 10				FM	288.92				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		
BRRKE	390147.79N / 0762745.34W	Y	FB	TF	022.41	11.82	AT 4000		



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name RAVNN (RNAV)		Number SEVEN		STAR Computer Code CAPKO.RAVNN7		Superseded Number SIX		Dated 12/10/2015	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>
DRZZT	391044.40N / 0762310.52W	Y	FB	TF	021.73	09.62	AT 4000		
DAAXX	392009.94N / 0763109.03W	Y	FB	TF	326.71	11.27			
DADLE	392327.88N / 0764243.50W	Y	FB	TF	290.22	09.56	AT 4000	AT 210K	
RYJON	392531.57N / 0764443.81W	Y	FO	TF	322.97	02.58	AT 4000		
KBWI:RWY 15L				FM	324.19				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		
NAVEY	385810.99N / 0763529.26W	Y	FB	TF	348.26	07.47	AT 5000	AT 230K	
ANCRR	390152.15N / 0764343.60W	Y	FB	TF	299.87	07.40	AT 4000	AT 210K	
LURRL	390428.63N / 0764930.23W	Y	FB	TF	300.10	05.20			
HUNNN	390523.10N / 0765254.35W	Y	FB	TF	288.92	02.80			
ZARTZ	391646.19N / 0765457.24W	Y	FB	TF	352.04	11.49	AT 4000	AT 210K	
ZOEYY	391826.57N / 0765622.11W	Y	FO	TF	326.71	02.00	AT 4000		
KBWI:RWY 15R				FM	326.71				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		
TOGAH	390001.29N / 0763139.42W	Y	FB	TF	009.11	09.27	AT 5000	AT 210K	
BMTTR	390452.21N / 0763042.59W	Y	FB	TF	008.66	04.90	AT 4000		
FHRST	390437.80N / 0762652.18W	Y	FO	TF	094.57	03.00	AT 4000		
KBWI:RWY 28				FM	094.57				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name RAVNN (RNAV)	Number SEVEN	STAR Computer Code CAPKO.RAVNN7		Superseded Number SIX		Dated 12/10/2015	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>
KOOLZ	385459.78N / 0763349.20W	Y	FO	TF	356.96	04.14	AT 5000	AT 210K	
KBWI:RWY 33L				FM	356.96				
Runway Transition									
RAVNN	384643.06N / 0763439.23W	Y		IF			6000B7000		
SEED	385051.66N / 0763332.32W	Y	FB	TF	011.89	04.23	5000B6000		
DUDDS	390048.21N / 0763010.61W	Y	FB	TF	014.78	10.27	AT/ABOVE 3000		
KBWI:RWY 33R									