

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HYPER (RNAV)	NINE	LIRCH.HYPER9	EIGHT	12/31/2020	21 MAR 2024

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ALBANY	ALB.HYPER9	ALB VORTAC	ALB VORTAC						
			ATWAN	190.74	60.57	FL180	3900		
			FILGA	214.50	21.72	16000	3900		
			KEAVR	227.84	16.43	16000	3900		
			BOTLS	248.72	31.27	16000	3900		
			JETTZ	248.31	29.44	14000	3900		
			SARAA	250.58	26.77	14000	3900		
			LRP VOR/DME	234.19	26.64	10000	3900		
			JOANE	249.07	08.85	10000	3900		
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
BARNES	BAF.HYPER9	BAF VORTAC	BAF VORTAC						
			BIGGO	241.93	20.00	17000	4000		
			YORKE	241.66	14.45	17000	4000		
			GANDE	241.55	28.43	17000	4000		
			KEAVR	235.47	27.21	16000	3900		
			BOTLS	248.72	31.27	16000	3900		
			JETTZ	248.31	29.44	14000	3900		
			SARAA	250.58	26.77	14000	3900		
			LRP VOR/DME	234.19	26.64	10000	3900		
			JOANE	249.07	08.85	10000	3900		
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
BANKK	BANKK.HYPER9	BANKK	BANKK						
			HIKES	292.12	33.54	10000	3900		
			LRP VOR/DME	253.37	34.81	10000	3900		
			JOANE	249.07	08.85	10000	3900		



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HYPER (RNAV)	NINE		LIRCH.HYPER9	EIGHT			12/31/2020	21 MAR 2024	
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
FILGA	FILGA.HYPER9	FILGA	FILGA						
			KEAVR	227.84	16.43	16000	3900		
			BOTLS	248.72	31.27	16000	3900		
			JETTZ	248.31	29.44	14000	3900		
			SARAA	250.58	26.77	14000	3900		
			LRP VOR/DME	234.19	26.64	10000	3900		
			JOANE	249.07	08.85	10000	3900		
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
GANDE	GANDE.HYPER9	GANDE	GANDE						
			KEAVR	235.47	27.21	16000	3900		
			BOTLS	248.72	31.27	16000	3900		
			JETTZ	248.31	29.44	14000	3900		
			SARAA	250.58	26.77	14000	3900		
			LRP VOR/DME	234.19	26.64	10000	3900		
			JOANE	249.07	08.85	10000	3900		
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
MODENA	MXE.HYPER9	MXE VORTAC	MXE VORTAC						
			DELRO	284.00	44.14	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
PARKE	PARKE.HYPER9	PARKE	PARKE						
			JETTZ	274.28	13.88	14000	3900		
			SARAA	250.58	26.77	14000	3900		
			LRP VOR/DME	234.19	26.64	10000	3900		
			JOANE	249.07	08.85	10000	3900		



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HYPER (RNAV)	NINE		LIRCH.HYPER9	EIGHT			12/31/2020	21 MAR 2024	
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		
ROBBINSVILLE	RBV.HYPER9	RBV VORTAC	RBV VORTAC						
			BANKK	291.88	19.01	10000	3900		
			HIKES	292.12	33.54	10000	3900		
			LRP VOR/DME	253.37	34.81	10000	3900		
			JOANE	249.07	08.85	10000	3900		
			DELRO	248.97	09.12	8000	3900		
			LIRCH	248.86	16.03	8000	3600		

ARRIVAL ROUTE DESCRIPTION:

KIAD: FROM LIRCH ON TRACK 248.68/4.81 TO BINNS, THEN ON TRACK 248.61/11.62 TO CROSS HYPER AT 10000 AND AT 250 KIAS.

LANDING KIAD RWY 1C/R: FROM HYPER ON TRACK 211.45/17.62 TO CROSS SIGBE AT 7000, THEN ON TRACK 188.92/8.65 TO CROSS MOWAT AT 5000, THEN ON TRACK 188.90/6.10 TO CROSS HUSEL AT 4000, THEN ON TRACK 189.88/15.37 TO YACKK, THEN ON TRACK 190.95/13.71 TO TICON, THEN ON TRACK 190.95. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KIAD RWY 1L, 30: FROM HYPER ON TRACK 227.52/27.41 TO CROSS CRAIN AT 6000, THEN ON TRACK 187.67/10.39 TO KUKSE, THEN ON TRACK 191.11/12.77 TO ELISN, THEN ON TRACK 191.11. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KIAD RWY 19L/C/R: FROM HYPER ON TRACK 232.92/8.92 TO CROSS PHATT AT 9000, THEN ON TRACK 230.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING ALL SATELLITE AIRPORTS: FROM LIRCH ON TRACK 248.68/4.81 TO BINNS, THEN ON TRACK 248.61/11.62 TO CROSS HYPER AT 10000 AND AT 250 KIAS, THEN ON TRACK 232.92/8.92 TO CROSS PHATT AT 9000, THEN ON TRACK 230.00. 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 AND TURBOPROP AIRCRAFT ONLY

NOTE: FOR AIRCRAFT CAPABLE OF 180 KIAS OR GREATER.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT BINNS: HOLD E, RT, 248.61 INBOUND, 7 NM LEGS, 265 KIAS.

CHART HOLDING AT HYPER: HOLD E, LT, 248.61 INBOUND, 4 NM LEGS, 210 KIAS.

COMMUNICATIONS:

CHART: POTOMAC APP CON



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HYPER (RNAV)	NINE	LIRCH.HYPER9	EIGHT	12/31/2020	21 MAR 2024

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KIAD	WASHINGTON	DC
KCJR	CULPEPER	VA
KMRB	MARTINSBURG	WV
KFRR	FRONT ROYAL	VA
KJYO	LEESBURG	VA
KHEF	WASHINGTON	DC
KNYG	QUANTICO	VA
KEZF	FREDERICKSBURG	VA
KRMN	STAFFORD	VA
KHWY	WARRENTON	VA
KOKV	WINCHESTER	VA

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ATC ELECTS TO ADD FM LEG(S) SO AIRCRAFT FMS DOES NOT AUTOMATICALLY TURN ON TO CONNECTING IAPS.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 MAG VAR:KIAD 10W/2000
 CHART: P-40, R-4009
 CHART: P-56A, P-56B
 CHART: AT PHATT TERMINUS: LDG KNYG/KCJR/KEZF/KRMN/KHWY/KHEF/KMRB/KJYO/KFRR/KOKV.
 CHART: AT PHATT TERMINUS: KIAD LDG RWY 19L/C/R.
 CHART: AT ELISN TERMINUS: KIAD LDG RWY 1L,30
 CHART: AT TICON TERMINUS: KIAD LDG RWY 1C/R



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HYPER (RNAV)	NINE	LIRCH.HYPER9	EIGHT	12/31/2020	21 MAR 2024

FLIGHT INSPECTED BY:

BOB S PRESSLER

ORGANIZATION: **DATE:**

FPO 01/03/2024

Flight Inspected Signature:

Digitally signed by

CASIMIR L TABAKA

Digitally signed by

Jan 19, 2024

TYLER D MITCHELL

Nov 28, 2023

DEVELOPED BY:

TYLER MITCHELL

AJV-A432 10/12/2023

Developed By Signature:

APPROVED BY:

CASIMIR TABAKA

AJV-A432

Approved By Signature:

Digitally signed by

CASIMIR L TABAKA

Jan 19, 2024

CHANGES:

1. ALL MOCA'S UPDATED.
2. MEA FOR ROUTE SARAA TO LRP VOR/DME CHANGED FROM 14000 TO 10000.
3. ROUTE FROM DELRO TO LIRCH ADDED.
4. ADDED BANKK TRANSITION.
5. ROBBINSVILLE ADDED FIX BANKK AFTER RBV VORTAC.
6. HIKES MEA CHANGED FROM 14000 TO 10000.
7. ARRIVAL ROUTE DESCRITPITON FOR KIAD RWY 19L/C/R REMOVED ALL TRACKS AFTER HYPER AND REPLACED THEM WITH "FROM HYPER ON TRACK 232.92/8.92 TO CROSS PHATT AT 9000, THEN ON TRACK 230.00."
8. PROCEDURAL DATA NOTE RADAR REQUIRED MOVED TO EQUIPMENT REQUIREMENT NOTES.
9. PROCEDURAL DATA NOTES RNAV 1 AND DME/DME/IRU OR GPS REQUIRED REMOVED AND REPLACED WITH PBN REQUIREMENT NOTES RNAV 1 - DME/DME/IRU OR GPS.
10. ADDED PROCEDURAL DATA NOTE "ARTCC WILL ISSUE LANDING DIRECTION (NORTH OR SOUTH) AND POTOMAC TRACON WILL ISSUE RUNWAY ASSIGNMENT."
11. ADDED ADDITIONAL FLIGHT DATA CHART: P-40, R-4009, CHART: P-56A, P-56B.
12. ADDED TERMINUS DATA TO ADDITIONAL FLIGHT DATA.
13. ADDED RWY 30 TRANSTION TO RWY 1L.
14. COMBINED RWY 19L/C/R RWY TRANSITIONS.
15. COMBINED ARRIVAL TEXT FOR SATELLITE AIRPORTS--ROUTING IS NOW: LIRCH-BINNS-HYPER-PHATT.
16. CHANGED REF OF TURBOJET TO JET IN NOTES SECTION.
17. ADDED FM LEG REMARK.
18. REMOVED WP: BEEZY, DADEY, DIMKE, HOOSR, YYANG.
19. HOLDING AT BINNS CORRECTED FROM 248.68 TO 248.61 TO MATCH NON-NFDC 8260-2.

REASONS:

1. IAW 8260.3E
2. ATC REQUEST, BANKK TRANSITION ADDED.
3. ATC REQUEST FOR NOISE ABATMENT.
4. ATC REQUEST, SERVES ZNY.
- 5-7. ATC REQUEST.
- 8-9. 8260.19l.
10. ATC REQUEST.



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- 11-16. 8260.19I.
- 17. ATC AWARENESS.
- 18. ATC REQUEST.
- 19. ATC REQUEST.

12/22/2023: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 11/28/2023.

REMOVED PROCEDURAL DATA NOTE: ARTCC WILL ISSUE LANDING DIRECTION (NORTH OR SOUTH) AND POTOMAC TRACON WILL ISSUE RUNWAY ASSIGNMENT.

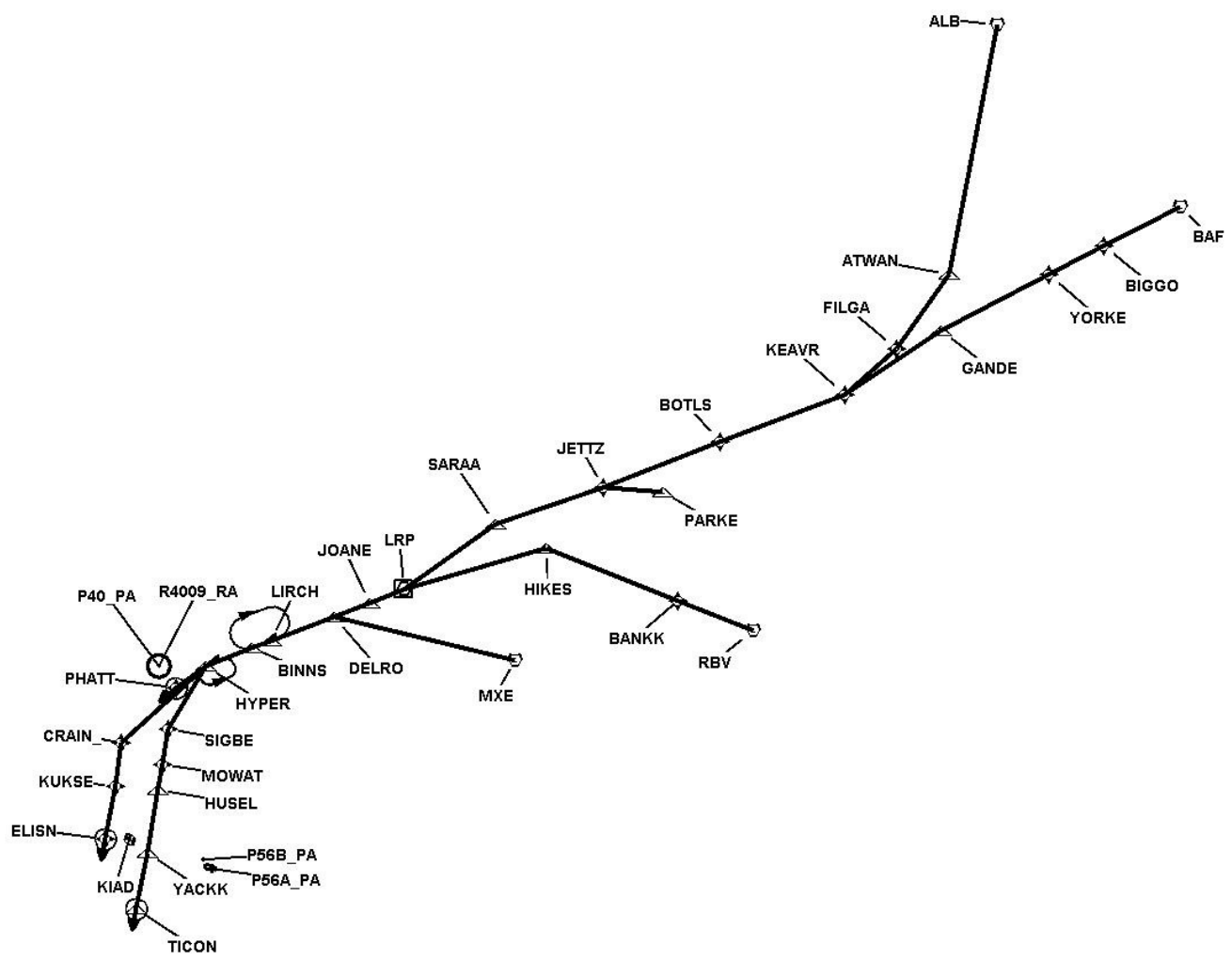


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HYPER (RNAV)	NINE	LIRCH.HYPER9	EIGHT	12/31/2020	21 MAR 2024

Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name HYPER (RNAV)	Number NINE	STAR Computer Code LIRCH.HYPER9		Superseded Number EIGHT	Dated 12/31/2020	Effective Date 21 MAR 2024			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
ALB VORTAC	424450.21N / 0734811.46W	Y		IF					ALB.HYPER9
ATWAN	414415.03N / 0734914.27W	Y	FB	TF	180.74	60.57			
FILGA	412428.13N / 0740112.37W	Y	FB	TF	204.50	21.72			
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	217.84	16.43			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
BAF VORTAC	420943.05N / 0724258.32W	Y		IF					BAF.HYPER9
BIGGO	415720.91N / 0730404.59W	Y	FB	TF	231.93	20.00			
YORKE	414821.75N / 0731914.12W	Y	FB	TF	231.66	14.45			
GANDE	413036.66N / 0734852.03W	Y	FB	TF	231.55	28.43			
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	225.47	27.21			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
BANKK	401600.95N / 0745400.03W	Y		IF					BANKK.HYPER9
HIKES	402255.93N / 0753654.90W	Y	FB	TF	282.12	33.54			



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name HYPER (RNAV)	Number NINE	STAR Computer Code LIRCH.HYPER9		Superseded Number EIGHT	Dated 12/31/2020	Effective Date 21 MAR 2024			
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	243.37	34.81			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
FILGA	412428.13N / 0740112.37W	Y		IF					FILGA.HYPER9
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	217.84	16.43			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
GANDE	413036.66N / 0734852.03W	Y		IF					GANDE.HYPER9
KEAVR	411128.24N / 0741433.66W	Y	FB	TF	225.47	27.21			
BOTLS	405508.24N / 0744948.79W	Y	FB	TF	238.72	31.27			
JETTZ	403935.00N / 0752244.00W	Y	FB	TF	238.31	29.44			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			



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STAR (DATA RECORD)

Arrival Name HYPER (RNAV)	Number NINE	STAR Computer Code LIRCH.HYPER9		Superseded Number EIGHT	Dated 12/31/2020	Effective Date 21 MAR 2024			
<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									
MXE VORTAC	395505.00N / 0754014.91W	Y		IF					MXE.HYPER9
DELRO	395755.71N / 0763731.24W	Y	FB	TF	274.00	44.14			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
PARKE	404059.46N / 0750435.32W	Y		IF					PARKE.HYPER9
JETZ	403935.00N / 0752244.00W	Y	FB	TF	264.28	13.88			
SARAA	402621.57N / 0755316.30W	Y	FB	TF	240.58	26.77			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	224.19	26.64			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
En Route Transition									
RBV VORTAC	401208.65N / 0742942.09W	Y		IF					RBV.HYPER9
BANKK	401600.95N / 0745400.03W	Y	FB	TF	281.88	19.01			
HIKES	402255.93N / 0753654.90W	Y	FB	TF	282.12	33.54			
LRP VOR/DME	400711.91N / 0761728.66W	Y	FB	TF	243.37	34.81			
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03			
Common Route									
LIRCH	394936.36N / 0765520.03W	Y		IF					LIRCH.HYPER9
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.81			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 10000	AT 250K	
Common Route									
LIRCH	394936.36N / 0765520.03W	Y		IF					LIRCH.HYPER9



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name HYPER (RNAV)	Number NINE	STAR Computer Code LIRCH.HYPER9	Superseded Number EIGHT	Dated 12/31/2020	Effective Date 21 MAR 2024
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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>
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.81			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 10000	AT 250K	
PHATT	393429.51N / 0772121.90W	Y	FO	TF	222.92	08.92	AT 9000		
KCJR,KEZF,KHEF, KHWY,KNYG,KRMN				FM	220.00				

Common Route

LIRCH	394936.36N / 0765520.03W	Y		IF					LIRCH.HYPER9
BINNS	394706.22N / 0770039.58W	Y	FB	TF	238.68	04.81			
HYPER	394102.16N / 0771330.34W	Y	FB	TF	238.61	11.62	AT 10000	AT 250K	
PHATT	393429.51N / 0772121.90W	Y	FO	TF	222.92	08.92	AT 9000		
KFRR,KJYO,KMRB, KOKV				FM	220.00		AT 9000		

Runway Transition

HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
SIGBE	392437.20N / 0772149.20W	Y	FB	TF	201.45	17.62	AT 7000		
MOWAT	391557.60N / 0772136.60W	Y	FB	TF	178.92	08.65	AT 5000		
HUSEL	390951.60N / 0772127.60W	Y	FB	TF	178.90	06.10	AT 4000		
YACKK	385428.80N / 0772125.20W	Y	FB	TF	179.88	15.37			
TICON	384045.60N / 0772142.60W	Y	FO	TF	180.95	13.71			
KIAD:RWY 1C,RWY 1R				FM	180.95				

Runway Transition

HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
CRAIN	391914.47N / 0773501.25W	Y	FB	TF	217.52	27.41	AT 6000		
KUKSE	390850.86N / 0773428.65W	Y	FB	TF	177.67	10.39			
ELISN	385604.35N / 0773447.64W	Y	FO	TF	181.11	12.77			
KIAD:RWY 1L,RWY 30				FM	181.11				



FEDERAL AVIATION ADMINISTRATION
 FLIGHT STANDARDS SERVICE
 STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date				
HYPER (RNAV)	NINE	LIRCH.HYPER9	EIGHT	12/31/2020	21 MAR 2024				
<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>
Runway Transition									
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K	
PHATT	393429.51N / 0772121.90W	Y	FO	TF	222.92	08.92	AT 9000		
KIAD:RWY 19C,RWY 19L,RWY 19R				FM	220.00		AT 9000		

