

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Arrival Name HYPER (RNAV)	Number ONE	STAR Computer Code LIRCH.HYPER1	Superseded Number NINE	Dated 03/21/2024	Effective Date 09 Jul 2026				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
ALBANY	ALB.HYPER1	ALB VORTAC	ALB VORTAC						
			ATWAN	190.74	60.57	5000	3900		
			FILGA	214.50	21.72	5000	3900		
			KEAVR	227.84	16.43	5000	3900		
			BOTLS	248.72	31.27	5000	3900		
			JETTZ	248.31	29.44	5000	3900		
			SARAA	250.58	26.77	5000	3900		
			LRP VOR/DME	234.19	26.64	5000	3900		
			JOANE	249.07	08.85	5000	3900		
			DELRO	248.97	09.12	5000	3900		
			LIRCH	248.86	16.03	5000	3600		AT 14000
BARNES	BAF.HYPER1	BAF VORTAC	BAF VORTAC						
			BIGGO	241.93	20.00	5000	4000		
			YORKE	241.66	14.45	5000	4000		
			GANDE	241.55	28.43	5000	4000		
			KEAVR	235.47	27.21	5000	3900		
			BOTLS	248.72	31.27	5000	3900		
			JETTZ	248.31	29.44	5000	3900		
			SARAA	250.58	26.77	5000	3900		
			LRP VOR/DME	234.19	26.64	5000	3900		
			JOANE	249.07	08.85	5000	3900		
			DELRO	248.97	09.12	5000	3900		
			LIRCH	248.86	16.03	5000	3600		AT 14000
BANKK	BANKK.HYPER1	BANKK	BANKK						
			HIKES	292.12	33.54	5000	3900		
			LRP VOR/DME	253.37	34.81	5000	3900		
			JOANE	249.07	08.85	5000	3900		

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Arrival Name		Number		STAR Computer Code		Superseded Number			Dated	Effective Date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)		ONE		LIRCH.HYPER1		NINE			03/21/2024	09 Jul 2026
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
FILGA	FILGA.HYPER1	FILGA	DELRO	248.97	09.12	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	
			FILGA							
			KEAVR	227.84	16.43	5000	3900			
			BOTLS	248.72	31.27	5000	3900			
			JETTZ	248.31	29.44	5000	3900			
			SARAA	250.58	26.77	5000	3900			
			LRP VOR/DME	234.19	26.64	5000	3900			
			JOANE	249.07	08.85	5000	3900			
			DELRO	248.97	09.12	5000	3900			
GANDE	GANDE.HYPER1	GANDE	LIRCH	248.86	16.03	5000	3600		AT 14000	
			GANDE							
			KEAVR	235.47	27.21	5000	3900			
			BOTLS	248.72	31.27	5000	3900			
			JETTZ	248.31	29.44	5000	3900			
			SARAA	250.58	26.77	5000	3900			
			LRP VOR/DME	234.19	26.64	5000	3900			
			JOANE	249.07	08.85	5000	3900			
			DELRO	248.97	09.12	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	
LANCASTER	LRP.HYPER1	LRP VOR/DME	LRP VOR/DME							
			JOANE	249.07	08.85	5000	3900			
			DELRO	248.97	09.12	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	
			MODENA							
MODENA	MXE.HYPER1	MXE VORTAC	MXE VORTAC							
			DELRO	284.00	44.14	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	
PARKE	PARKE.HYPER1	PARKE	PARKE							

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)		ONE		LIRCH.HYPER1		NINE			03/21/2024	09 Jul 2026
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes	
			JETTZ	274.28	13.88	5000	3900			
			SARAA	250.58	26.77	5000	3900			
			LRP VOR/DME	234.19	26.64	5000	3900			
			JOANE	249.07	08.85	5000	3900			
			DELRO	248.97	09.12	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	
ROBBINSVILLE	RBV.HYPER1	RBV VORTAC	RBV VORTAC							
			BANKK	291.88	19.01	5000	3900			
			HIKES	292.12	33.54	5000	3900			
			LRP VOR/DME	253.37	34.81	5000	3900			
			JOANE	249.07	08.85	5000	3900			
			DELRO	248.97	09.12	5000	3900			
			LIRCH	248.86	16.03	5000	3600		AT 14000	

ARRIVAL ROUTE DESCRIPTION:

IAD: 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 IAD RWY 1C/R: FROM HYPER ON TRACK 211.45/8.81 TO CROSS BRUHH AT 9000, THEN ON TRACK 211.41/8.81 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 CROSS YACKK AT 4000 AND AT 210 KIAS, THEN ON TRACK 191.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING IAD RWY 1L, 30: FROM HYPER ON TRACK 227.52/27.41 TO CROSS CRAIN AT 6000, THEN ON TRACK 187.67/10.39 TO CROSS KUKSE AT 5000, THEN ON TRACK 189.82/12.76 TO ELISN, THEN ON TRACK 189.82. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING IAD RWY 19L/C/R: FROM HYPER ON TRACK 220.00/5.00 TO CROSS PHATT AT 9000, THEN ON TRACK 220.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING CJR/MRB/JYO/FRR/HWY/OKV: 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 220.00/5.00 TO CROSS PHATT AT 9000, THEN ON TRACK 240.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING NYG/EZF/RMN/HEF: 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 211.45/8.81 TO CROSS BRUHH AT 9000, THEN ON TRACK 211.41/8.81 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 190.39/29.07 TO TICON, THEN ON TRACK 191.00. 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.

NOTE: LRP TRANSITION ATC, ASSIGNED ONLY.

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)	ONE	LIRCH.HYPER1	NINE	03/21/2024	09 Jul 2026

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:

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
IAD	WASHINGTON	DC
CJR	CULPEPER	VA
MRB	MARTINSBURG	WV
FRR	FRONT ROYAL	VA
JYO	LEESBURG	VA
HEF	WASHINGTON	DC
NYG	QUANTICO	VA
EZF	FREDERICKSBURG	VA
RMN	STAFFORD	VA
HWY	WARRENTON	VA
OKV	WINCHESTER	VA

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

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

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

MOCA VALUE AT LIRCH 3600 FT DUE TO 1547 MSL TOWER (42-000370) LOCATED NORTH OF RWY TRANSITIONS.

LOWEST ASSIGNED ATC ALTITUDE AT ELISN, 4000 AND AT TICON, 3000.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: IAD 10W/2000

CHART AT PHATT TERMINUS: IAD LDG RWY 19L/C/R

CHART AT ELISN TERMINUS: IAD LDG RWY 1L, 30

CHART AT YACKK TERMINUS: IAD LDG RWY 1C/R

CHART AT PHATT TERMINUS: LDG CJR/FRR/HWY/JYO/MRB/OKV

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)	ONE	LIRCH.HYPER1	NINE	03/21/2024	09 Jul 2026

CHART AT TICON TERMINUS: LDG EZF/HEF/NYG/RMN
CHART: P-40, R-4009
CHART: P-56A, P-56B

FLIGHT INSPECTED BY:

MICHAEL G CAMPBELL

ORGANIZATION:

AJF

DATE:

04/01/2026

Flight Inspected Signature:

Digitally signed by

TARA N MARTINELLI

Digitally signed by Apr 17, 2026

DEVELOPED BY:

PARNELL PRASSADA

AJV-A432

01/12/2026

Developed By Signature:

PARNELL R PRASSADA

Mar 03, 2026

APPROVED BY:

CASIMIR TABAKA

AJV-A432

Approved By Signature:

Digitally signed by

TARA N MARTINELLI

Apr 17, 2026

CHANGES:

1. ENROUTE TRANSITION: LOWERED ALL MEAS TO 5000.
2. ENROUTE TRANSITION: ADDED "AT 14000" ALTITUDE RESTRICTION AT COMMON ROUTE WAYPOINT LIRCH.
3. ENROUTE TRANSITION: ADDED LRP TRANSITION TO THE ARRIVAL PROCEDURE.
4. ARRIVAL ROUTE DESCRIPTION: LANDING IAD 1C/R: ADDED BRUHH; ADDED CROSS YACKK AT 4000/210 KIAS.
5. ARRIVAL ROUTE DESCRIPTION: LANDING RWY 1L,30: ADDED CROSS KUSKE AT 5000; FM LEG CHANGED TO 189.82 10.
6. ARRIVAL ROUTE DESCRIPTION: LANDING 19L/C/R: RELOCATED PHATT 4.2 NM NE; FM CHANGED FROM 230 TO 220.
7. ARRIVAL ROUTE DESCRIPTION: DELETED "LANDING ALL SATELLITE AIRPORTS" AND ADDED "LANDING CJR/MRB/JYO/FRR/HWY/OKV" AND "LANDING NYG/EZF/RMN/HEF."
8. ARRIVAL ROUTE DESCRIPTION: UPDATED CJR/MRB/JYO/FRR/HWY/OKV TO PHATT TRACK/DISTANCE INFORMATION FROM 232.92/8.92 TO 220.00/5.00.
9. ARRIVAL ROUTE DESCRIPTION: UPDATED COMMON ROUTE FM LEG TRACK FOR CJR/MRB/JYO/FRR/HWY/OKV FROM 230.00 TRACK TO 240.00 TRACK.
10. ARRIVAL ROUTE DESCRIPTION: ADDED NEW COMMON ROUTE FOR NYG/EZF/RMN/HEF ARPTS AFTER HYPER (BRUHH, SIGBE, MOWAT, HUSEL, TICON).
11. PROCEDURAL DATA NOTES: ADDED "LRP TRANSITION ATC, ASSIGNED ONLY."
12. COMMUNICATION/LOST COMMUNICATIONS: DELETED "CHART: POTOMAC APP CON."
13. REMOVED "K" FROM AIRPORT IDENTIFIERS ON 17.1 FORM.
14. REMARKS: ADDED "MOCA VALUE AT LIRCH 3600 FT DUE TO 1547 MSL TOWER (42-000370) LOCATED NORTH OF RWY TRANSITIONS."
15. REMARKS: ADDED "LOWEST ASSIGNED ATC ALTITUDE AT ELISN, 4000 AND AT TICON, 3000."
16. ADDITIONAL FLIGHT DATA: UPDATED TERMINUS DATA.

REASONS:

1. DUE TO INCREASED DME/DME/IRU COVERAGE.
- 2-6, 9-11. PER ATC REQUEST.
7. DUE TO AIRPORTS DISTINCTLY ASSIGNED TO PHATT AND NEWLY ADDED TICON TERMINUS.
8. PHATT MOVED 4.2 NM NE TO PROVIDE PROCEDURAL SEPARATION.
12. IAW 8260.19K, 4-5-12 (F).
13. IAW 8260.19K DOCUMENTATION STANDARDS.

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)	ONE	LIRCH.HYPER1	NINE	03/21/2024	09 Jul 2026

14. IAW 8260.19K, 4-5-12 (I).

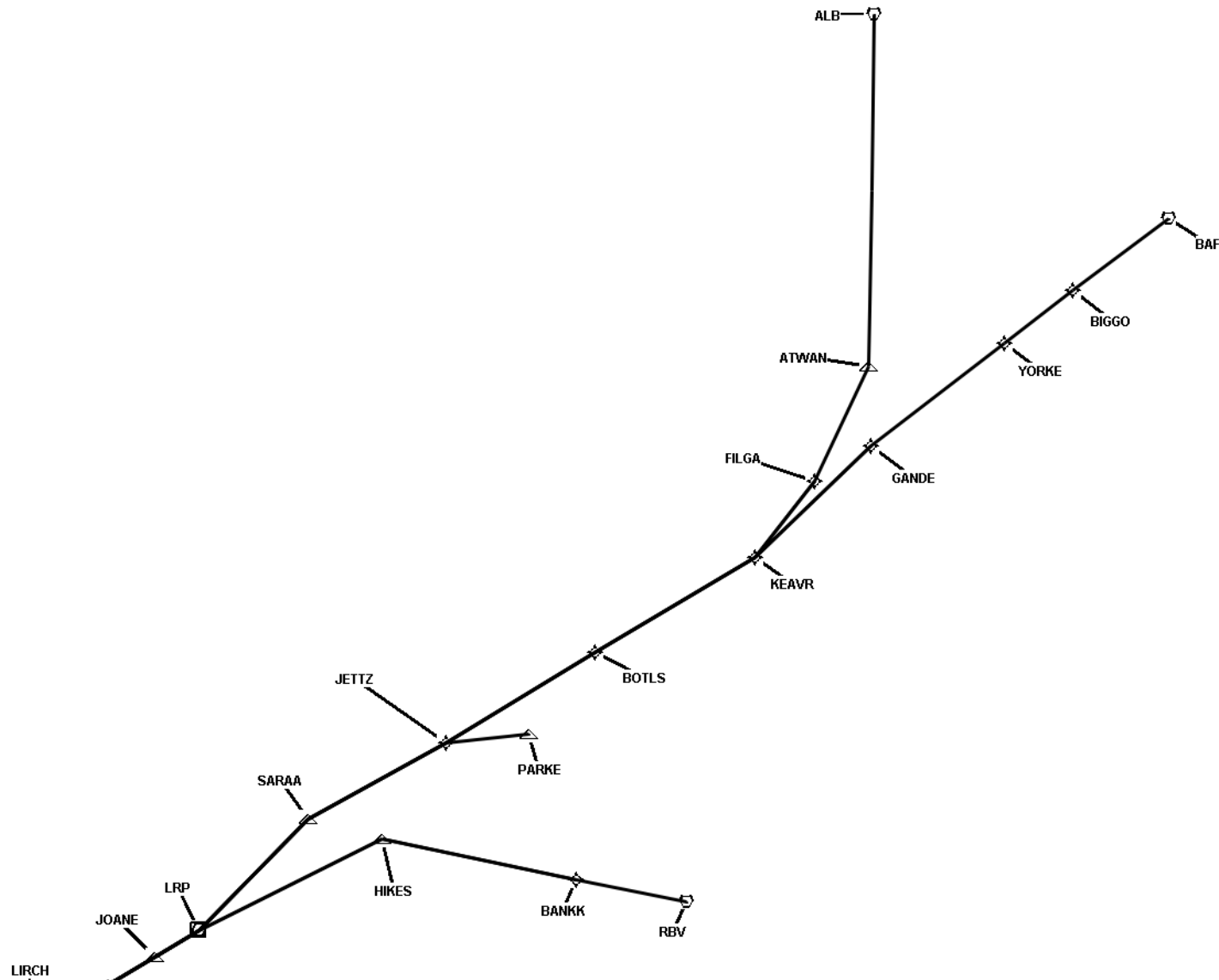
15. IAW "WAIVER TO FAA ORDER 8260.3, UNITED STATES STANDARD FOR TERMINAL INSTRUMENT PROCEDURES (TERPS), STAR TERMINATION ALTITUDE" MEMO.

16. IAW 8260.19K, 4-5-2 (H) (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.

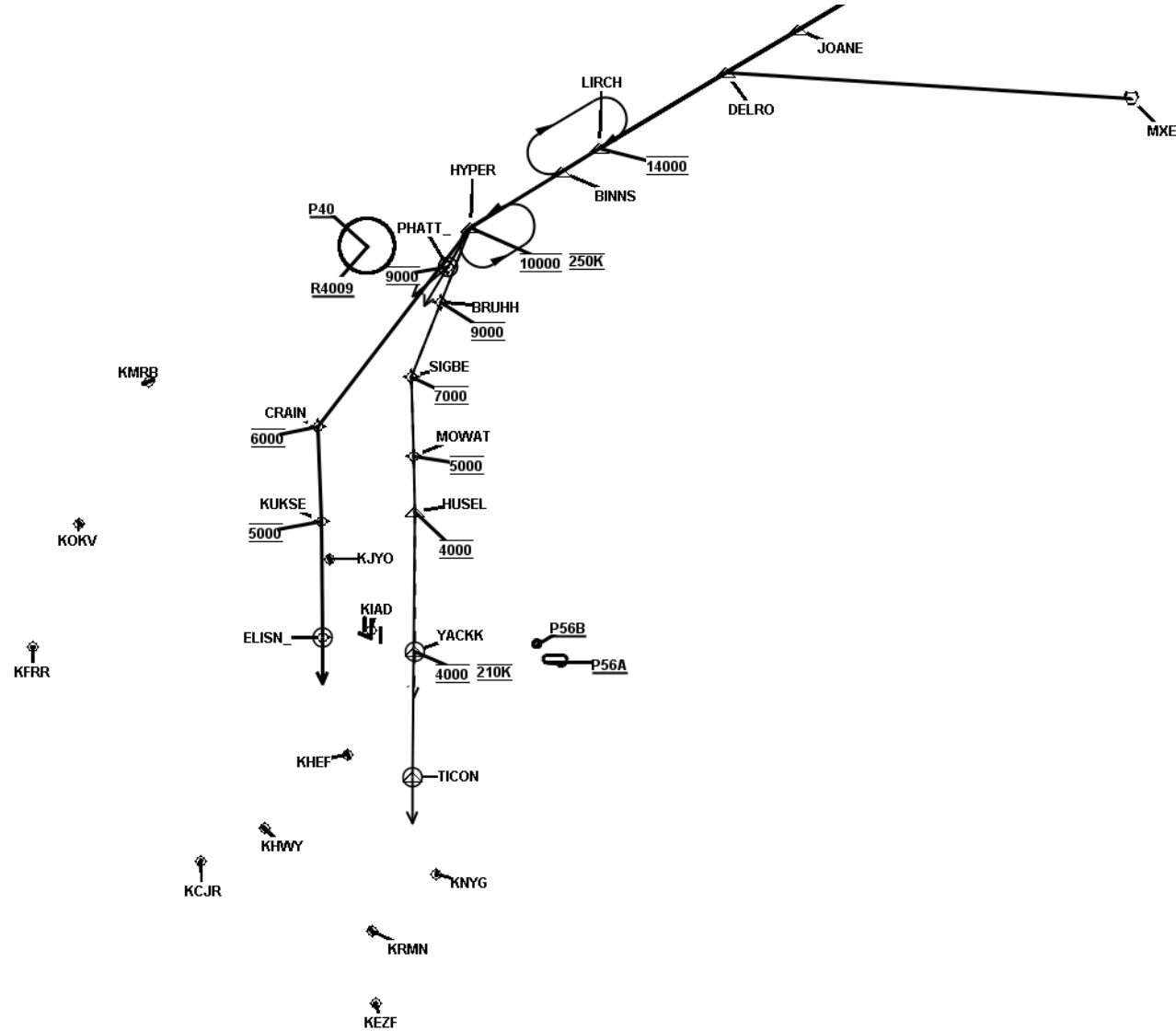
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
HYPER (RNAV)	ONE	LIRCH.HYPER1	NINE	03/21/2024	09 Jul 2026
Graphic Depiction 1					



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
HYPER (RNAV)	ONE	LIRCH.HYPER1	NINE	03/21/2024	09 Jul 2026
Graphic Depiction 2					



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.

The map illustrates Delta Air Lines' flight network in the New York City area. Key airports shown include LAX, SFO, ORD, EWR, and various regional airports like KJFK, LGA, and ERI. Flight paths are depicted as lines connecting these airports, with Delta's logo and name prominently displayed in the center. The map also shows the geographical layout of the New York City area, including the Hudson River and the surrounding landmasses.

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name HYPER (RNAV)		Number ONE		STAR Computer Code LIRCH.HYPER1		Superseded Number NINE		Dated 03/21/2024	Effective Date 09 Jul 2026
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.HYPER1
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	AT 14000		
En Route Transition									
BAF VORTAC	420943.05N / 0724258.32W	Y		IF					BAF.HYPER1
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	AT 14000		
En Route Transition									
BANKK	401600.95N / 0745400.03W	Y		IF					BANKK.HYPER1
HIKES	402255.93N / 0753654.90W	Y	FB	TF	282.12	33.54			QUALITY

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name HYPER (RNAV)		Number ONE		STAR Computer Code LIRCH.HYPER1		Superseded Number NINE		Dated 03/21/2024	Effective Date 09 Jul 2026
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	AT 14000		
En Route Transition									
FILGA	412428.13N / 0740112.37W	Y		IF					FILGA.HYPER1
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	AT 14000		
En Route Transition									
GANDE	413036.66N / 0734852.03W	Y		IF					GANDE.HYPER1
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	AT 14000		
En Route Transition									
LRP VOR/DME	400711.91N / 0761728.66W	Y		IF					LRP.HYPER1
JOANE	400238.48N / 0762721.40W	Y	FB	TF	239.07	08.85			

QUALITY

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name HYPER (RNAV)		Number ONE		STAR Computer Code LIRCH.HYPER1		Superseded Number NINE		Dated 03/21/2024	Effective Date 09 Jul 2026
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
DELRO	395755.71N / 0763731.24W	Y	FB	TF	238.97	09.12			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03	AT 14000		
En Route Transition									
MXE VORTAC	395504.98N / 0754014.96W	Y		IF					MXE.HYPER1
DELRO	395755.71N / 0763731.24W	Y	FB	TF	274.00	44.14			
LIRCH	394936.36N / 0765520.03W	Y	FB	TF	238.86	16.03	AT 14000		
En Route Transition									
PARKE	404059.46N / 0750435.32W	Y		IF					PARKE.HYPER1
JETTZ	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	AT 14000		
En Route Transition									
RBV VORTAC	401208.65N / 0742942.09W	Y		IF					RBV.HYPER1
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	AT 14000		

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name HYPER (RNAV)		Number ONE		STAR Computer Code LIRCH.HYPER1			Superseded Number NINE		Dated 03/21/2024	Effective Date 09 Jul 2026
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
Common Route										
LIRCH	394936.36N / 0765520.03W	Y		IF			AT 14000		LIRCH.HYPER1	
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			AT 14000		LIRCH.HYPER1	
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	393642.09N / 0771644.43W	Y	FO	TF	210.00	05.00	AT 9000			
KCJR,KFRR,KHWY, KJYO,KMRB,KOKV				FM	230.00					
Common Route										
LIRCH	394936.36N / 0765520.03W	Y		IF			AT 14000		LIRCH.HYPER1	
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		
BRUHH	393249.70N / 0771740.29W	Y	FB	TF	201.45	08.81	AT 9000			
SIGBE	392437.20N / 0772149.20W	Y	FB	TF	201.41	08.81	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			
TICON	384045.60N / 0772142.60W	Y	FO	TF	180.39	29.07				
KEZF,KHEF,KNYG, KRMN				FM	181.00					
Runway Transition										
HYPER	394102.16N / 0771330.34W	Y		IF			AT 10000	AT 250K		
PHATT	393642.09N / 0771644.43W	Y	FO	TF	210.00	05.00	AT 9000			
KIAD:RWY 19C,RWY 19L,RWY 19R				FM	210.00					

QUALITY

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code		Superseded Number		Dated		Effective Date	
HYPER (RNAV)	ONE	LIRCH.HYPER1		NINE		03/21/2024		09 Jul 2026	
<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	
BRUHH	393249.70N / 0771740.29W	Y	FB	TF	201.45	08.81	AT 9000		
SIGBE	392437.20N / 0772149.20W	Y	FB	TF	201.41	08.81	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	FO	TF	179.88	15.37	AT 4000	AT 210K	
KIAD:RWY 1C,RWY 1R				FM	181.00				
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	AT 5000		
ELISN	385604.53N / 0773425.56W	Y	FO	TF	179.82	12.76			
KIAD:RWY 1L,RWY 30				FM	179.82				