

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
THRNE (RNAV)	FOUR	THRNE.THRNE4	THREE	03/29/2018	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
AMMOR	AMMOR.THRNE4	AMMOR	AMMOR						
			RNCHO	288.75	28.55	17000	8100		BETWEEN FL240 AND FL260
			SNSTT	298.48	14.32	17000	8100		BETWEEN FL200 AND FL230
			SOLAY	328.34	20.27	17000	8100		
			COHEE	322.17	04.03	11000	7900		AT 12000
			ERTLE	322.38	14.21	11000	7900		AT 11000
			PHIYA	322.26	05.00	11000	6300		
			THRNE	293.45	13.01	11000	5500		AT/BELOW 11000
PHRED	PHRED.THRNE4	PHRED	PHRED						
			FOILD	264.85	53.07	17000	12300		
			QUTIP	264.99	11.85	17000	12300		AT/BELOW FL290
			VLLMA	265.11	09.67	17000	12300		
			DROGO	264.69	10.93	17000	12300		AT/ABOVE FL240
			DEWWW	264.96	15.23	17000	12300		AT/ABOVE FL210
			DNERY	263.32	11.87	13000	12300		BETWEEN FL180 AND FL200
			ARRYA	264.57	08.41	13000	12300		AT 16000
			YATZE	268.78	06.71	13000	12300		BETWEEN 14000 AND 15000
			IRONN	268.80	15.54	13000	12300		AT 13000
			BRATH	272.95	06.72	11000	6900		AT 11000
			THRNE	272.77	05.20	11000	5500		AT/BELOW 11000

ARRIVAL ROUTE DESCRIPTION:

LANDING BUR: FROM THRNE ON TRACK 274.97/15.87 TO CROSS CRCUS AT 10000, THEN ON TRACK 268.64/18.21 TO CROSS EDARD AT 10000 AND AT 250 KIAS, THEN ON TRACK 268.28/7.39 TO CROSS NNEDD AT 8000, THEN ON TRACK 253.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING VNY: FROM THRNE ON TRACK 274.97/15.87 TO CROSS CRCUS AT 10000, THEN ON TRACK 268.64/18.21 TO CROSS EDARD AT 10000 AND AT 250 KIAS, THEN ON TRACK 268.28/7.39 TO CROSS NNEDD AT 8000, THEN ON TRACK 272.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

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PROCEDURAL DATA NOTES:

NOTE: JET AND TURBOPROP AIRCRAFT ONLY

NOTE: EXPECT LOCAL AREA ALTIMETER SETTING REACHING FL200.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT LITNG: HOLD E, LT, 264.04 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: BOB HOPE ATCT

CHART: VAN NUYS ATCT

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
BUR	BURBANK	CA
VNY	VAN NUYS	CA

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: BUR 12E/2020

CHART AT NNEDD TERMINUS: LDG BUR AND VNY

FLIGHT INSPECTED BY:

ORGANIZATION: **DATE:**

Flight Inspected Signature: _____

DEVELOPED BY:

RICHARD CAMPBELL

AJV - A423

08/23/2024

Developed By Signature: _____

APPROVED BY:

ALLAN WILL

AJV - A423

02/20/2025

Approved By Signature: _____

CHANGES:

1. CHANGED ALTITUDE RESTRICTION AT DNERY WP FROM AOB FL200 TO FL180BFL200.

2. ADDED BRATH WP - BETWEEN IRONN AND THRNE ON PHRED ENROUTE TRANSITION
WITH AN ALTITUDE RESTRICITON OF AT 11000.

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3. ADDED AMMOR EN ROUTE TRANSITION.
4. REMOVED BFOON FROM AND ADDED EDARD WITH AT 10000 RESTRICTION AFTER CRCUS TO BUR/VNY ARRIVAL ROUTE DESCRIPTION.
5. REMOVED LANDING KSMO FROM ARRIVAL ROUTES DESCRIPTION.
6. RAISED MOCAS ON EXISTING PHRED TRANSITION.
7. REMOVED FROM PROCEDURE DATA NOTES AND ADDED TO PBN REQUIREMENT NOTES: RNAV 1-DME/DME/IRU OR GPS REQUIRED.
8. REMOVED FROM PROCEDURE DATA NOTES AND ADDED TO EQUIPMENT REQUIREMENT NOTES: RADAR REQUIRED.
9. REMOVED ATIS FROM COMMUNICATIONS.
10. ADDED CHARTED TERMINUS DATA CHART AT NNEDD TERMINUS: LDG BUR AND VNY.
11. PHRED ENROUTE TRANSITION - MEA CHANGE AT THRNE FROM 8000 TO 11000.
12. CHANGED TURBOJET TO JET.
13. FIXES AND/OR HOLDING PATTERNS: REMOVED LITNG AS STANDALONE FIX.
14. AIRPORT SERVED CHANGES REMOVED SMO, REMOVED NAMES AND REMOVED K'S.
15. ADDITIONAL FLIGHT DATA: REMOVED DO NOT CHART MOCAS.

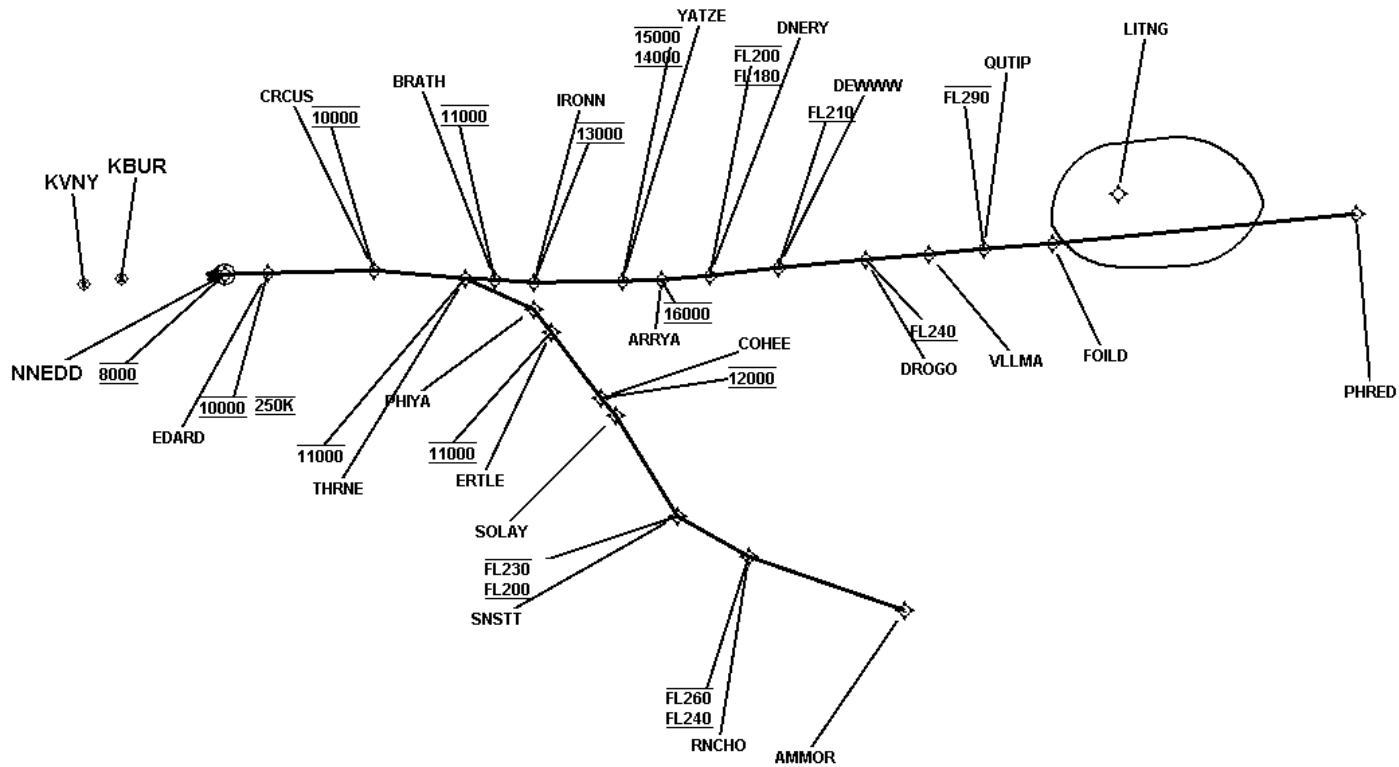
REASONS:

1. TO CORRECT DESCENT GRADIENT ERROR
2. ATC REQUEST TO PROVIDE SEPARATION FROM LGB/SNA DSNEE STAR.
3. ATC REQUEST FOR TRAFFIC FLOW MANAGEMENT.
4. ATC REQUEST FOR PROCEDURAL SEPARATION FROM ONT SNSHN DEPARTURE.
5. ATC REQUEST, NO LONGER NEEDED.
6. DESCENDING MOCA CRITERIA FAAO 8260.3E PARAGRAPH 2-2-7 d.(3).
- 7-9. IAW FAAO 8260.19J DOCUMENTATION STANDARDS.
10. IAW FAAO 8260.19J 4-5-2 h.(2).
11. ATC REQUEST FOR TRAFFIC FLOW MANAGEMENT.
12. IAW FAAO 8260.19J DOCUMENTATION STANDARDS.
13. ADDED HOLDING PER ATC REQUEST.
14. ATC REQUEST AND IAW FAAO 8260.19J DOCUMENTATION STANDARDS.
15. IAW FAAO 8260.19J DOCUMENTATION STANDARDS.

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THRNE (RNAV)	FOUR	THRNE.THRNE4	THREE	03/29/2018	
Graphic Depiction 1					



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

Arrival Name THRNE (RNAV)	Number FOUR	STAR Computer Code THRNE.THRNE4		Superseded Number THREE		Dated 03/29/2018		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									
AMMOR	324816.06N / 1155629.04W	Y		IF					AMMOR.THRNE4
RNCHO	330250.26N / 1162540.49W	Y	FB	TF	300.75	28.55	FL240BFL260		
SNSTT	331208.21N / 1163839.14W	Y	FB	TF	310.48	14.32	FL200BFL230		
SOLAY	333115.26N / 1164648.60W	Y	FB	TF	340.34	20.27			
COHEE	333453.22N / 1164854.66W	Y	FB	TF	334.17	04.03	AT 12000		
ERTLE	334743.04N / 1165617.00W	Y	FB	TF	334.38	14.21	AT 11000		
PHIYA	335213.73N / 1165853.48W	Y	FB	TF	334.26	05.00			
THRNE	335946.58N / 1171138.19W	Y	FB	TF	305.45	13.01	AT/BELOW 11000		
En Route Transition									
PHRED	333844.70N / 1140718.30W	Y		IF					PHRED.THRNE4
FOILD	334448.96N / 1151029.85W	Y	FB	TF	276.85	53.07			
QUTIP	334614.81N / 1152436.17W	Y	FB	TF	276.99	11.85	AT/BELOW FL290		
VLLMA	334726.21N / 1153607.07W	Y	FB	TF	277.11	09.67			
DROGO	334842.05N / 1154908.56W	Y	FB	TF	276.69	10.93	AT/ABOVE FL240		
DEWWW	335031.65N / 1160717.85W	Y	FB	TF	276.96	15.23	AT/ABOVE FL210		
DNERY	335136.94N / 1162129.39W	Y	FB	TF	275.32	11.87	FL180BFL200		
ARRYA	335234.36N / 1163131.42W	Y	FB	TF	276.57	08.41	AT 16000		
YATZE	335349.49N / 1163926.31W	Y	FB	TF	280.78	06.71	14000B15000		
IRONN	335643.16N / 1165747.10W	Y	FB	TF	280.80	15.54	AT 13000		
BRATH	335827.03N / 1170535.22W	Y	FB	TF	284.95	06.72	AT 11000		
THRNE	335946.58N / 1171138.19W	Y	FB	TF	284.77	05.20	AT/BELOW 11000		
Common Route									
THRNE	335946.58N / 1171138.19W	Y		IF			AT/BELOW 11000		THRNE.THRNE4
CRCUS	340423.53N / 1172954.38W	Y	FB	TF	286.97	15.87	AT 10000		
EDARD	340743.65N / 1175127.93W	Y	FB	TF	280.64	18.21	AT 10000	AT 250K	

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Arrival Name THRNE (RNAV)	Number FOUR	STAR Computer Code THRNE.THRNE4		Superseded Number THREE		Dated 03/29/2018	Effective Date		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
NNEDD	340902.59N / 1180013.66W	Y	FO	TF	280.28	07.39	AT 8000		
KBUR				FM	265.00				
Common Route									
THRNE	335946.58N / 1171138.19W	Y		IF			AT/BELOW 11000		THRNE.THRNE4
CRCUS	340423.53N / 1172954.38W	Y	FB	TF	286.97	15.87	AT 10000		
EDARD	340743.65N / 1175127.93W	Y	FB	TF	280.64	18.21	AT 10000	AT 250K	
NNEDD	340902.59N / 1180013.66W	Y	FO	TF	280.28	07.39	AT 8000		
KVNY				FM	284.00				