

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.  
Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name IRNMN (RNAV)	Number TWO	STAR Computer Code IRNMN.IRNMN2	Superseded Number ONE	Dated 04/27/2017	Effective Date 24MAY2018				
TRANSITION ROUTES:									
Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BURGL	BURGL.IRNMN2	BURGL	BURGL						
			DOUIT	136.33	26.52	17000	6600		
			CROWY	130.47	28.19	14000	6800		BETWEEN FL260 AND FL290
			MUPTT	131.54	12.30	14000	7600		BETWEEN FL230 AND FL270
			MDOTS	132.15	07.25	14000	9700		BETWEEN FL200 AND FL240
			GRIPR	132.49	06.45	14000	9700		BETWEEN FL190 AND FL230
			BIKNG	131.74	09.01	14000	9200		BETWEEN 16000 AND FL200
			RUNNN	132.30	07.35	14000	7400		BETWEEN 14000 AND 17000
			IRNMN	131.00	06.54	12000	4800		BETWEEN 12000 AND 16000
FRASR	FRASR.IRNMN2	FRASR	FRASR						
			IRNMN	160.28	23.08	12000	9600		BETWEEN 12000 AND 16000
MUPTT	MUPTT.IRNMN2	MUPTT	MUPTT						BETWEEN FL230 AND FL270
			MDOTS	132.15	07.25	14000	9700		BETWEEN FL200 AND FL240
			GRIPR	132.49	06.45	14000	9700		BETWEEN FL190 AND FL230
			BIKNG	131.74	09.01	14000	9200		BETWEEN 16000 AND FL200
			RUNNN	132.30	07.35	14000	7400		BETWEEN 14000 AND 17000
			IRNMN	131.00	06.54	12000	4800		BETWEEN 12000 AND 16000
REBRG	REBRG.IRNMN2	REBRG	REBRG						
			STADD	185.02	19.70	17000	2800		
			DOUIT	179.23	23.09	17000	6600		
			CROWY	130.47	28.19	14000	6800		BETWEEN FL260 AND FL290
			MUPTT	131.54	12.30	14000	7600		BETWEEN FL230 AND FL270
			MDOTS	132.15	07.25	14000	9700		BETWEEN FL200 AND FL240
			GRIPR	132.49	06.45	14000	9700		BETWEEN FL190 AND FL230
			BIKNG	131.74	09.01	14000	9200		BETWEEN 16000 AND FL200
			RUNNN	132.30	07.35	14000	7400		BETWEEN 14000 AND 17000
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>IRNMN (RNAV)</b>	<b>TWO</b>	<b>IRNMN.IRNMN2</b>	<b>ONE</b>	<b>04/27/2017</b>	<b>24MAY2018</b>

ARRIVAL ROUTE DESCRIPTION:

LANDING KLAX/KHHR: FROM IRNMN ON TRACK 130.64/6.83 TO CROSS SYMON BETWEEN 12000 AND 13000 AND AT 250 KIAS, THEN ON TRACK 125.85/10.93 TO CROSS BAYST AT OR ABOVE 9000 AND AT 240 KIAS, THEN ON TRACK 084.43/5.50 TO CROSS JUUSE BETWEEN 8000 AND 9000, THEN ON TRACK 084.43/4.87 TO CROSS CLIFY BETWEEN 7000 AND 8000 AND AT 210 KIAS, THEN ON TRACK 066.29/5.03 TO CROSS DAHJR AT 6000 AND AT 210 KIAS, THEN ON TRACK 071.01/3.00 TO CROSS GADDO AT 6000, THEN ON TRACK 071.01. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: TURBOJET AIRCRAFT ONLY.

NOTE: PROCEDURE IS ONLY FOR USE WHEN LOS ANGELES LANDING WEST.

NOTE: FRASR TRANSITION ATC ASSIGNED ONLY.

NOTE: MUPTT TRANSITION RESTRICTED TO FAT AND BFL AREA DEPARTURES, OTHERWISE ATC ASSIGNED ONLY.

NOTE: EXPECT RWY 24R UNLESS OTHERWISE ASSIGNED BY ATC.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT BAYST: HOLD NW, LT, 125.85 INBOUND, 10 NM LEGS.

CHART HOLDING AT GRIPR: HOLD NW, LT, 132.49 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

SOCAL APP CON, LAX ATCT (N/S), LAX ATIS

HHR ATCT, HHR ATIS

AIRPORTS SERVED:

JACK NORTHROP FIELD/HAWTHORNE MUNI, HAWTHORNE, CA (KHHR)

LOS ANGELES INTL, LOS ANGELES, CA (KLAX)

LOST COMMUNICATIONS PROCEDURE:

IN THE EVENT OF LOST COMMUNICATIONS PROCEED ON THE RNAV (RNP) Z RWY 24R APPROACH OR THE ILS OR LOC RWY 24R.

REMARKS:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KLAX 12E/2020

DO NOT CHART MOCAS.

QUALITY  
14  
CHECKED

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<b>IRNMN (RNAV)</b>	<b>TWO</b>	<b>IRNMN.IRNMN2</b>	<b>ONE</b>	<b>04/27/2017</b>	<b>24MAY2018</b>

FLIGHT INSPECTED BY:

James Meek	<i>Digitally signed by</i>	FICO	10/4/2017	
Name	<b>CASIMIR L TABAKA</b>	Organization	Date	Signature
	Apr 03, 2018			

DEVELOPED BY:

Robert E. Henry - FAA LEAD	<i>Digitally signed by</i>	Southern California Metroplex	06/02/2017	
Jose Gonzalez - NATCA Co-LEAD	<b>CASIMIR L TABAKA</b>	Organization	Date	Signature
Name	Apr 02, 2018			

APPROVED BY:

S. L. Shrimpton	<i>Digitally signed by</i>	Acting Manager, WSC-OSG		
Name	<b>CASIMIR L TABAKA</b>	Organization	Date	Signature
	Apr 02, 2018			

CHANGES:

1. CHANGED RESTRICTION AT IRNMN FROM "AT OR BELOW 16000" TO "BETWEEN 12000 AND 16000".
2. CHANGED IRNMN MEA FROM 11000 TO 12000; DOUIT MEA CHANGED FROM 14000 TO 17000.
3. CHANGED RESTRICTION AT SYMON FROM "BETWEEN 11000 AND 13000" TO "BETWEEN 12000 AND 13000".
4. CHANGED SPEED RESTRICTION AT BAYST FROM "240K" TO "250K"
5. ADDED RESTRICTION "AT 6000" TO GADDO WAYPOINT.
6. FM LEG CHANGED FROM 071.00 TO 071.01.

REASONS:

1. 3. ATC REQUEST TO PROVIDE VERTICAL SEPARATION FROM ARRIVALS FROM THE WEST.
2. CORRECTED MEA'S TO MATCH MINIMUM RESTRICTION AT IRNMN.
4. IAW FAAO 8260.3C PARA 2-2-1h.
5. REQUIRED PER FAAO 8260.3C PARA 2-2-1f(6)(b).
6. ALIGN WITH LEG INTO GADDO.

10/31/2017: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/02/2017:

1. CHANGED SPEED RESTRICTION AT BAYST BACK TO 240 KIAS FROM 250 KIAS.
2. CHANGED ALTITUDE AT CROWY FROM AT/BELOW FL290 TO BETWEEN FL260 AND FL290.

2/13/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/02/2017:

1. CHANGE NOTE FROM TURBOJET AND TURBOPROP AIRCRAFT ONLY TO TURBOJET AIRCRAFT ONLY.

2/23/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/02/2017:

1. ADDED NOTE: FRASR TRANSITION ATC ASSIGNED ONLY.
2. ADDED NOTE: MUPTT TRANSITION RESTRICTED TO FAT AND BFL AREA DEPARTURES, OTHERWISE ATC ASSIGNED ONLY.
3. CHANGED LOST COMMUNICATION FROM: IN THE EVENT OF LOST COMMUNICATIONS: RNP LAX ARRIVALS PROCEED ON THE RNAV (RNP) Z RWY 24R APPROACH AT DAHJR TO IN THE EVENT OF LOST COMMUNICATIONS PROCEED ON THE RNAV (RNP) Z RWY 24R APPROACH OR THE ILS OR LOC RWY 24R

3/12/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/02/2017:

1. ON 8260-17.2 (Page 1 of 2) REBRG En Route Transition - Corrected altitude at CROWY from AT/BELOW FL290 to FL260BFL290.

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

Arrival Name IRNMN (RNAV)	Number TWO	STAR Computer Code IRNMN.IRNMN2		Superseded Number ONE		Dated 04/27/2017	Effective Date 24MAY2018		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BURGL	353957.68N / 1200627.86W	Y		IF					BURGL.IRNMN2
DOUIT	351719.89N / 1194927.26W	Y	FB	TF	148.33	26.52			
CROWY	345454.35N / 1192834.24W	Y	FB	TF	142.47	28.19	FL260BFL290		
MUPTT	344459.63N / 1191942.23W	Y	FB	TF	143.54	12.30	FL230BFL270	AT 280K	
MDOTS	343906.26N / 1191433.35W	Y	FB	TF	144.15	07.25	FL200BFL240		
GRIPR	343350.57N / 1191001.13W	Y	FB	TF	144.49	06.45	FL190BFL230		
BIKNG	342633.57N / 1190334.39W	Y	FB	TF	143.74	09.01	16000BFL200		
RUNNN	342034.64N / 1185823.49W	Y	FB	TF	144.30	07.35	14000B17000		
IRNMN	341520.56N / 1185338.57W	Y	FB	TF	143.00	06.54	12000B16000		
En Route Transition									
FRASR	343815.44N / 1185723.04W	Y		IF					FRASR.IRNMN2
IRNMN	341520.56N / 1185338.57W	Y	FB	TF	172.28	23.08	12000B16000		
En Route Transition									
MUPTT	344459.63N / 1191942.23W	Y		IF			FL230BFL270	AT 280K	MUPTT.IRNMN2
MDOTS	343906.26N / 1191433.35W	Y	FB	TF	144.15	07.25	FL200BFL240		
GRIPR	343350.57N / 1191001.13W	Y	FB	TF	144.49	06.45	FL190BFL230		
BIKNG	342633.57N / 1190334.39W	Y	FB	TF	143.74	09.01	16000BFL200		
RUNNN	342034.64N / 1185823.49W	Y	FB	TF	144.30	07.35	14000B17000		
IRNMN	341520.56N / 1185338.57W	Y	FB	TF	143.00	06.54	12000B16000		
En Route Transition									
REBRG	355853.00N / 1193653.00W	Y		IF					REBRG.IRNMN2
STADD	354000.93N / 1194357.63W	Y	FB	TF	197.02	19.70			
DOUIT	351719.89N / 1194927.26W	Y	FB	TF	191.23	23.09			
CROWY	345454.35N / 1192834.24W	Y	FB	TF	142.47	28.19	FL260BFL290		
MUPTT	344459.63N / 1191942.23W	Y	FB	TF	143.54	12.30	FL230BFL270	AT 280K	
MDOTS	343906.26N / 1191433.35W	Y	FB	TF	144.15	07.25	FL200BFL240		

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
GRIPR	343350.57N / 1191001.13W	Y	FB	TF	144.49	06.45	FL190BFL230		
BIKNG	342633.57N / 1190334.39W	Y	FB	TF	143.74	09.01	16000BFL200		
RUNNN	342034.64N / 1185823.49W	Y	FB	TF	144.30	07.35	14000B17000		
IRNMN	341520.56N / 1185338.57W	Y	FB	TF	143.00	06.54	12000B16000		
Common Route									
IRNMN	341520.56N / 1185338.57W	Y		IF			12000B16000		IRNMN.IRNMN2
SYMON	340954.29N / 1184838.95W	Y	FB	TF	142.64	06.83	12000B13000	AT 250K	
BAYST	340146.73N / 1183949.20W	Y	FB	TF	137.85	10.93	AT/ABOVE 9000	AT 240K	
JUUSE	340109.55N / 1183314.68W	Y	FB	TF	096.43	05.50	8000B9000		
CLIFY	340036.64N / 1182725.58W	Y	FB	TF	096.43	04.87	7000B8000	AT 210K	
DAHJR	340137.83N / 1182130.22W	Y	FB	TF	078.29	05.03	AT 6000	AT 210K	
GADDO	340159.74N / 1181755.25W	Y	FO	TF	083.01	03.00	AT 6000		
KLAX				FM	083.01				RECOMMENDED NAVAID: TFD VORTAC

