

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KLAS	<u>PROCEDURE NAME</u> ILS OR LOC RWY 1L	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> LAS VEGAS	<u>STATE</u> NV		
<u>AIRPORT ELEVATION</u> 2181	<u>TDZE</u> 2176	<u>SUPERSEDED</u> ILS OR LOC RWY 1L	<u>ORIGINAL/AMENDMENT</u> 3	<u>DATED</u> 02/25/2021	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-CUA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MAY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WOPMA/36.45 DME		CEDAX/I-CUA 30.72 DME					013.91	5.73 (I-CUA)	11000
CEDAX/I-CUA 30.72 DME		SHANQ/I-CUA 26.22 DME					013.91	4.50 (I-CUA)	9700
SHANQ/I-CUA 26.22 DME		KRUDY/I-CUA 19.83 DME					013.91	6.39 (I-CUA)	8000
ROAMN	IAF	TRREY/I-CUA 16.03 DME		TF	FB	1.00	030.34	3.30	7000
KRUDY/I-CUA 19.83 DME	IAF	TRREY/I-CUA 16.03 DME					013.91	3.79 (I-CUA)	7000
TRREY/I-CUA 16.03 DME	IF	CODNO/I-CUA 13.18 DME					013.91	2.85 (I-CUA)	6300
CODNO/I-CUA 13.18 DME		NODIY/I-CUA 10.03 DME					013.91	3.15 (I-CUA)	5300

MISSED APPROACH

MAP:

ILS: DA
LOC: I-CUA 1.54 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN CLIMBING RIGHT TURN TO 7000 DIRECT BLD VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. PROFILE STARTS AT TRREY
- 3. **FAC:** 013.91 **FAF:** NODIY/I-CUA 10.03 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 8.49
- 4. **MIN ALT:** TRREY/I-CUA 16.03 DME 7000, CODNO/I-CUA 13.18 DME 6300, NODIY/I-CUA 10.03 DME 5300, SOSOY/I-CUA 7.34 DME 4300, ZABES/I-CUA 4.77 DME 3400
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 1296
- 6. **MIN GS INCPT:** 5300 **GS ALT AT PFAF :** NODIY/I-CUA 10.03 DME 5300 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.40 **34:1:** **20:1:** **TCH:** 59.3
- 8. **MSA FROM:** LAS VORTAC 030-120 6700, 120-210 8400, 210-300 13200, 300-030 10200

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.
RNP APCH-GPS. FROM ROAMN.

NOTES:

CHART NOTE: RWY 1L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WOPMA ON V21-283-587 SOUTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 1L ALL CATS VISIBILITY TO 7/8 SM.
CHART SPEED ICON IN PLANVIEW AT ROAMN: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT TRREY: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 8000 AT ROAMN.
2600 AAO 360127N/1151240W.
HOLD SE, RT, 330.00 INBOUND.
CHART FAS OBST: 2465 BUILDING (32-067735) 360222N/1151110W.
CHART VDP AT 2.87 DME
DISTANCE VDP TO THLD 1.33 NM.
CHART CIRCLING ICON.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ILS: STANDARD; LOC: CAT A, B 900-2, CAT C 1000-2 3/4, CAT D 1400-3

CATEGORY:	A			B			C			D			E		
	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 1L	2460	3/4	284	2460	3/4	284	2460	3/4	284	2460	3/4	284			
S-LOC 1L	2720	3/4	544	2720	3/4	544	2720	1 3/8	544	2720	1 3/8	544			
CIRCLING	3020	1 1/4	839	3060	1 1/4	879	3100	2 3/4	919	3540	3	1359			



CHANGES - REASONS

1. ADD 210 SPEED RESTRICTION AT TRREY - ATC REQUEST PER FPT.
2. CHANGE ALTITUDE RESTRICTION AT ROAMN FROM MINIMUM 8000 TO MANDATORY 8000 - ATC REQUEST PER FPT.
3. ADDED CHART PLANVIEW NOTE AT TRREY "MAX 210 KIAS" - SPEED RESTRICTION ADDED.
4. REMOVED ALL OCCURRENCES OF "" REFERENCING "LOC ONLY" FROM PROFILE DATA AND ADDITIONAL FLIGHT DATA -- IAW 8260.19I 8-6-10M.
5. PROFILE LINE 5 DIST TO THLD FROM GS ANT CHANGED FROM 1297 TO 1296 -- UPDATED AIRNAV DATA.
6. ADDED ADDITIONAL FLIGHT DATA NOTE "2600 AAO 360127N/1151240W" FOR 7:1 EXCLUDED AAO -- NEW MANUAL TERRAIN EVALUATION.
7. CHANGED EQUIPMENT REQUIREMENTS NOTE "FROM ROAMN: RNP APCH-GPS REQUIRED" TO "RNP APCH -- GPS. FROM ROAMN" -- IAW 8260.19I 8-6-8C2.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZLA, LAS TRACON, LAS ACTC, NV AERO, AMGR

FLIGHT CHECKED BY

GARY J VEER

Digitally signed by

CASIMIR L TABAKA

Mar 17, 2022

OFFICE

FPO

DATE

03/08/2022

DEVELOPED BY

JON DENTON (KARLIE BUNTIN)

Digitally signed by

CASIMIR L TABAKA

Mar 17, 2022

OFFICE

AJV-A432

DATE

11/01/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

CASIMIR L TABAKA

Mar 17, 2022

OFFICE

AJV-A430

DATE

03/24/2022

TITLE

MANAGER

