

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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</u> SOUTHEAST COLORADO RGNL	<u>AIRPORT ID</u> KLAA	<u>PROCEDURE NAME</u> VOR RWY 36	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> LAMAR	<u>STATE</u> CO	
<u>AIRPORT ELEVATION</u> 3706	<u>TDZE</u> 3706	<u>SUPERSEDED</u> VOR RWY 36	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> LAA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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
HOOKA/LAA 20.00 DME CCW	IAF	CODIN/LAA 20.00 DME					20.00 DME ARC		6300
CODIN/LAA 20.00 DME CCW		ASWIR/LAA 20.00 DME					20.00 DME ARC		6000
LYSES/LAA 20.00 DME CW	IAF	ASWIR/LAA 20.00 DME					20.00 DME ARC		6000
ASWIR/LAA 20.00 DME	IF	LIHZE/LAA 14.00 DME					350.00	6.00 (LAA R-170)	5700

MISSED APPROACH

MAP:

LAA 8.35 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT LAA VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT ASWIR
3. FAC: 350.00 FAF: LIHZE/LAA 14.00 DME DIST FAF TO MAP: DIST FAF TO THLD: 5.65
4. MIN ALT: ASWIR/LAA 20.00 DME 6000, LIHZE/LAA 14.00 DME 5700, TIGDE/LAA 10.50 DME 4460
8. MSA FROM: LAA VOR/DME 5900

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



ADDITIONAL FLIGHT DATA:

HOLD N, RT, 168.73 INBOUND.
CHART FAS OBST: 3946 TRANSMISSION_LINE 380205N/1024005W.
4169 AAO 375721N/1024300W.
CHART VDP AT 9.76 DME
DISTANCE VDP TO THLD 1.41 NM.
CHART LAA R-298 AT HOOKA.
CHART LAA R-238 AT CODIN.
CHART LAA R-048 AT LYES.
FAC CROSSES RWY C/L EXTENDED 1022 FT FROM THLD.
CHART CIRCLING ICON.
LAA 14.00 DME TO RW36: 3.24/50.

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	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-36	4200	1	494	4200	1	494	4200	1 3/8	494	4200	1 1/2	494			
CIRCLING	4420	1	714	4420	1	714	4420	2	714	4420	2 1/4	714			

CHANGES - REASONS

1. ADDED FIX NAME HOOKA AT IAF LAA R-298/20.00 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
2. ADDED FIX NAME CODIN AT SDF LAA R-238/20.00 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
3. ADDED FIX NAME LYES AT IAF LAA R-048/20 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
4. ADDED FIX NAME ASWIR AT IF LAA R-170/20 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
5. ADDED FIX NAME LIHZE AT FAF LAA R-170/14 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
6. ADDED FIX NAME TIGDE AT SDF LAA R-170/10.5 DME - NAV FIXES MUST BE NAMED; IAW 8260.19 2-5-10.
7. DELETED CHART NOTE CIRCLING RWY 8, 26 NA AT NIGHT - NO CIRCLING PENETRATIONS FOUND.
8. CHANGED ADDITIONAL FLIGHT DATA NOTE: FROM “CHART FAS OBST: 3944 T-LINE 380205N/1024006W” TO “CHART FAS OBST: 3946 TRANSMISSION_LINE 380205N/1024005W”- UPDATED CONTROLLING OBSTACLE.
9. ADDED ADDITIONAL FLIGHT DATA NOTE: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
10. CHANGED ADDITIONAL FLIGHT DATA NOTE: FROM “FAC CROSSES RWY C/L EXTENDED 1137 FT FROM THLD” TO “FAC CROSSES RWY C/L EXTENDED 1022 FT FROM THLD” - UPDATED TARGETS EVALUATION.
11. CHANGED ADDITIONAL FLIGHT DATA NOTE: FROM “CHART VDP AT 9.77 DME” TO “CHART VDP AT 9.76 DME” - UPDATED TARGETS EVALUATION.
12. ADDED ADDITIONAL FLIGHT DATA NOTE: 4169 AAO 375721N/1024300W - UPDATED TARGETS EVALUATION; NEW 7:1 OBSTACLE IDENTIFIED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, CO AERO, AMGR

FLIGHT CHECKED BY BRYAN VEIT	<i>Digitally signed by</i> WARDELL HENNING Nov 06, 2020	OFFICE FICO	DATE 10/08/2020	<div>QUALITY 10 CHECKED</div>
DEVELOPED BY WARDELL HENNING (PATRICK COMBS)	<i>Digitally signed by</i> WARDELL HENNING Nov 06, 2020	OFFICE AJV-A432	DATE 04/24/2020	
APPROVED BY GEORGE DAVIS	<i>Digitally signed by</i> WARDELL HENNING Nov 06, 2020	OFFICE AJV-A430	DATE	

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SOUTHEAST COLORADO RGNL	KLAA	VOR RWY 36	1D	LAMAR	CO	3706	LAA

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM
HOOKA/LAA 20.00 DME CCW

TO
CODIN/LAA 20.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (06-0155)	382415.00N/1025807.00W		4764	250	50	4D	1000				AT536	6300
2.TERRAIN	382555.00N/1030525.00W		4560 (4600)								AS1500	6100

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INITIAL: ARC STEPDOWN

FROM
CODIN/LAA 20.00 DME CCW

TO
ASWIR/LAA 20.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	375046.00N/1024509.00W		4479	50	20	2C	1000				AT521	6000
4.TERRAIN	375046.00N/1024509.00W		4279 (4300)								AS1500	5800

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



INITIAL: ARC

FROM

LYSES/LAA 20.00 DME CW

TO

ASWIR/LAA 20.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.AAO	375046.00N/1024509.00W		4479	50	20	2C	1000				AT521	6000
4.TERRAIN	375046.00N/1024509.00W		4279 (4300)								AS1500	5800

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INTERMEDIATE

FROM

ASWIR/LAA 20.00 DME

TO

LIHZE/LAA 14.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	375210.00N/1024504.00W		4439	50	20	2C	500					5000
6.TERRAIN	375210.00N/1024504.00W		4239 (4200)								AS1500	5700

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL

FROM

LIHZE/LAA 14.00 DME

TO

TIGDE/LAA 10.50 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.50											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	375821.00N/1024230.00W		4139	50	20	2C	250				DG71	4460

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: STEPDOWN

FROM

TIGDE/LAA 10.50 DME

TO

LAA 8.35 DME

<u>RNP</u>	<u>DISTANCE</u> 2.15	<u>PAT</u>	<u>MAP</u> LAA 8.35 DME	<u>HAT</u> 494			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.TRANSMISSION_LINE (08-000832)	380205.15N/1024004.95W		3946	20	3	1A	250					4200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH

FROM

LAA 8.35 DME

TO

LAA VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 3950				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				6000
9.TOWER (08-000834)	381016.00N/1024051.00W	4171	500	50	5D	1000					5200
10.TERRAIN	381145.00N/1024115.00W	3943 (3900)								AS1500	5400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
11.TREE	380227.00N/1024027.00W	1.36	714	3889	50	20	2C	300		XP231	4420
CATEGORY B											
8.TRANSMISSION_LINE (08-000832)	380205.15N/1024004.95W	1.94	714	3946	20	3	1A	300		XP174	4420
CATEGORY C											
8.TRANSMISSION_LINE (08-000832)	380205.15N/1024004.95W	3.07	714	3946	20	3	1A	300		XP174	4420
CATEGORY D											
12.AAO	380203.00N/1024551.00W	4.02	714	4110	50	20	2C	300			4420

CIRCLING REMARKS:

XP: TO MAINTAIN CURRENT MINIMUMS.



MSA

CENTER

LAA VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (08-000155)	382416.00N/1025809.00W	301	18.2	4805	250	50	4D	1000			5900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



<u>AIRPORT</u> SOUTHEAST COLORADO RGNL	<u>AIRPORT ID</u> KLAA	<u>PROCEDURE NAME</u> VOR RWY 36	<u>AMDT NO.</u> 1D	<u>CITY</u> LAMAR	<u>STATE</u> CO	<u>AIRPORT ELEVATION</u> 3706	<u>FACILITY</u> LAA
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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZDV ARTCC, DEN FSS

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KLAA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLAA	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KLHX	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLHX	<u>DISTANCE</u> 38.84	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 163

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KLAA 3706, KLHX 4229
RA = 162.8.

<u>PRIMARY NAVAID</u> LAA VOR/DME	<u>MONITOR POINT</u> POCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW08 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	BSC-G	
RW26 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	BSC-G	
RW18 - MIRL (PCL), REIL (PCL), VASI-4L (PCL)	NPI-G	
RW36 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 44.9
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FINAL APPROACH COURSE AIMING
RUNWAY THRESHOLD ☐ 1022 FT FROM THRESHOLD
ON CENTERLINE ☒ FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>

CRITICAL TEMPERATURE REMARKS:

QUALITY
10
CHECKED

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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	VOR
34:1	
3739 TERRAIN (08-26131) 380314.88N/1024135.26W (0.86)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

50 FT VEGETATION USED.

CONTINGENCY ALTIMETER NOTES:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LA JUNTA ALTIMETER SETTING AND INCREASE ALL MDA 180 FEET, INCREASE S-36 CAT C VISIBILITY 1/2 SM, CAT D 3/8 SM, INCREASE CIRCLING CAT A/B VISIBILITY 1/4 SM AND CAT C/D VISIBILITY 3/4 SM.
VDP NA WHEN USING LA JUNTA ALTIMETER SETTING.

CIRCLING NIGHT RESTRICTIONS TO RWY 8, 26 DUE TO INSUFFICIENT SURVEY (NVG) ARE IGNORED. FPT CONFIRMED REMOVAL OF ALL 20:1 PENETRATIONS TO ALL RWYS. VALIDATED BY AJV-A412 AIS USING AIRNAV.

ORDER 8260.3 CHAPTER 2 APPLIED TO 4169 AAO 375721.00N/1024300.00W.

ORDER 8260.3 CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> SOUTHEAST COLORADO RGNL	<u>AIRPORT ID</u> KLAA	<u>PROCEDURE NAME</u> VOR RWY 36	<u>AMDT NO.</u> 1D	<u>CITY</u> LAMAR	<u>STATE</u> CO	<u>AIRPORT ELEVATION</u> 3706	<u>FACILITY</u> LAA
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.98
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	3.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	338.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3900
DISTANCE FROM	THLD	TO 1500FT POINT	5.05
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	3.34
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	338.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	3900

THRESHOLD
COORDINATES
(IF STR-IN)

380328.05N/1024135.57W

ARP COORDINATES

380410.90N/1024118.60W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 36 DISTANCE 0.75 NM

FAF
COORDINATES

381149.53N/1024115.12W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
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PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (PATRICK COMBS)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 04/24/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
10
CHECKED

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