

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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> RNAV (GPS) 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SUPERSEDED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> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 7E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
WIZGE		KUSKY		TF	FB	1.00	190.39	24.77	6200
KOWTO		IHIYO		TF	FO	1.00	098.49	11.48	6200
KUSKY	IAF	IHIYO	NOPT	TF	FB	1.00	272.64	5.00	6200
IHIYO	IF/IAF	LAMZY		TF	FB	1.00	002.58	6.01	5700
LAMZY	FAF	RW36	MAP	TF	FO	0.30	002.60	6.00	
RW36	MAP	3956 MSL		CA			002.60		
3956 MSL		LOVIY		DF	FB	1.00			
LOVIY		LAA VOR/DME		TF	FO	1.00	350.55	5.40	6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT LOVIY AND LEFT TURN ON TRACK 350.55 TO LAA VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S IHIYO, RT, 002.58 INBOUND, 6200 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAF: 002.60FAF: LAMZYDIST FAF TO MAP: 6.00DIST FAF TO THLD: 6.00

4. MIN ALT: IHIYO 6200, LAMZY 5700

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.62GS ANT:

6. MIN GP INCPT: 5700GP ALT AT FAF : LAMZY 5700OM:MM:IM:

7. GP ANGLE: 3.0534:1: IS NOT CLEAR20:1: IS CLEARTCH: 50.0

8. MSA FROM: RW36 6100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIZGE ON V244 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KOWTO ON V263 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 172.73 INBOUND.
FAS OBST: 4139 AAO 375822N/1024249W.
4169 AAO 375721N/1024300W.
CHART TWO BUTTES HIGH AND LOW MOA.
CHART VDP AT 2.03 NM TO RW36*
*LNAV ONLY.
WAAS CHANNEL # 99400
REFERENCE PATH ID: W36A
LTP HAE: 1106.3 M

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
LPV DA	3956	1	250	3956	1	250	3956	1	250	3956	1	250	QUALITY 10 CHECKED		
LNAV/VNAV DA	4250	2	544	4250	2	544	4250	2	544	4250	2	544			
LNAV MDA	4400	1	694	4400	1	694	4400	2	694	4400	2 1/4	694			

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAA
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	380328.0500N
LTP/FTP LONGITUDE	1024135.5600W
LTP/FTP ELLIPSOIDAL HEIGHT	+11063
FPAP LATITUDE	380456.0000N
FPAP LONGITUDE	1024116.7315W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0832
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6B72D736

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+11294
FPAP ORTHOMETRIC HEIGHT	+11294



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	RNAV (GPS) RWY 36	1D	LAMAR	CO	3706	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM WIZGE TO KUSKY

<u>RNP</u>	<u>DISTANCE</u> 24.77	<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.AAO	374730.00N/1023503.00W		4436	164	98	4E	1000				AT764	6200
2.TERRAIN	374730.00N/1023503.00W		4236 (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:

FEEDER

FROM KOWTO TO IHIYO

<u>RNP</u>	<u>DISTANCE</u> 11.48	<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	374818.00N/1024700.00W		4544	164	98	4E	1000				AT656	6200
4.TERRAIN	374818.00N/1024700.00W		4344 (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:



FACILITY
RNAV

AIRPORT

SOUTHEAST COLORADO

RGNL

AIRPORT ID

KLAA

PROCEDURE NAME

RNAV (GPS) RWY 36

AMDT NO.

1D

CITY

LAMAR

STATE

CO

AIRPORT ELEVATION

3706

FACILITY

RNAV

FINAL: LPV

FROM

LAMZY

TO

RW36

RNP

DISTANCE

PAT

MAP

HAT

HMAS

6.00

DA

250

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TERRAIN (08-026131)	380314.88N/1024135.26W	3739	20	3	1A		33.44:1				3956

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

LAMZY

TO

RW36

RNP

DISTANCE

PAT

MAP

HAT

HMAS

6.00

DA

544

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE	380247.72N/1024059.75W	3849	50	20	2C	161				XP220 DG20	4250

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP220: TO MAINTAIN CURRENT MINIMUMS.

A circular green stamp with the text "QUALITY 10 CHECKED" arranged in a circle around the number "10".

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FROM

LAMZY

TO

RW36

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	6.00		RW36	694								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.AAO	375822.18N/1024248.69W		4139	50	20	2C	250					4400

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

HOLD-IN-LIEU OF PT

FROM

IHIYO

TO

P-9

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-9										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.WINDMILL (08-020154)	374116.15N/1025106.77W		5108	250	125	4E	1000					6200
12.TERRAIN	374045.00N/1025139.00W		4748 (4700)								AS1500	6200

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



FACILITY
RNAV

QUALITY
10
CHECKED

FACILITY
RNAV

QUALITY
10
CHECKED

<u>AIRPORT</u> SOUTHEAST COLORADO RGNL	<u>AIRPORT ID</u> KLAA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> 1D	<u>CITY</u> LAMAR	<u>STATE</u> CO	<u>AIRPORT ELEVATION</u> 3706	<u>FACILITY</u> RNAV
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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 = 162.3.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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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> 3.05	<u>ELEV RWY THRESHOLD</u> 3705.5	<u>TCH</u> 50.0	<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 ☒
ON CENTERLINE ☒

FT FROM THRESHOLD

FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -22C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -22C	<u>APT ISA</u> +7.66C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2015-2019).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 1023 HIGH TEMP 1327.

QUALITY
10
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"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV
34:1	
3739 TERRAIN (08-026131) 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.

TAA NOT DEVELOPED PER FPT.

CONTINGENCY ALTIMETER NOTES:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LA JUNTA ALTIMETER SETTING AND INCREASE LPV DA TO 4119 FEET, LNAV/VNAV DA TO 4413 FEET, AND ALL MDA 180 FEET, INCREASE LPV VISIBILITY ALL CATS 1/8 SM; INCREASE LNAV CAT B 1/4 SM, CAT C 1/2 SM, AND CAT D 1/4 SM.
BARO-VNAV NA WHEN USING LA JUNTA ALTIMETER SETTING.
VDP NA WHEN USING LA JUNTA ALTIMETER SETTING.

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



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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	3.59				
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.65				
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	009.60				
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3900				
DISTANCE FROM	THLD	TO 1500FT POINT	5.40				
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95				
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	009.60				
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	375732.66N/1024251.56W						
FIX NAME COORDINATES							
REMARKS							
NO ADDITIONAL AIRSPACE REQUIRED							

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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		
<div>QUALITY 10 CHECKED</div>							