

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
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 ID</u> E45	<u>PROCEDURE NAME</u> GPS RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>CITY</u> GROVELAND	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 2933	<u>TDZE</u> 2933	<u>SUPERSEDED</u> GPS RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 15E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> GPS	<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
BAGBY	IAF	COCPE		TF	FB		025.09	10.15	5300
COCPE	IF	JEYCU/1.00 NM TO IJOBA		TF	FB		305.57	4.00	5000
JEYCU/1.00 NM TO IJOBA		IJOBA		TF	FB		305.57	1.00	4700
IJOBA	FAF	RW27	MAP	TF	FO		290.53	5.00	
RW27	MAP	3333 MSL		CA			290.53		3333
3333 MSL		UPCIM		DF	FO				4600

MISSED APPROACH

MAP:

GPS: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4600 DIRECT UPCIM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT COCPE
3. FAC: 290.53 FAF: IJOBA DIST FAF TO MAP: DIST FAF TO THLD: 5.00
4. MIN ALT: COCPE 5300, JEYCU/1.00 NM TO IJOBA 5000, IJOBA 4700
8. MSA FROM: RW27 10100



EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: USE COLUMBIA ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART COLUMBIA AWOS-3.
 CHART 175K ICON FOR UPCIM HOLDING PATTERN.
 HOLD W, RT, 095.35 INBOUND.
 CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
 CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.99 DEGREES.

MINIMUMS:

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

ALTERNATE: NA

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-27	3860	1	927	3860	1 1/4	927		NA			NA					

CHANGES - REASONS

1. CHANGED "OBTAIN LOCAL ALTIMETER SETTING ON CTAF; WHEN NOT RECEIVED, USE COLUMBIA ALTIMETER SETTING" TO USE "COLUMBIA ALTIMETER SETTING" - COLUMBIA ALTIMETER SETTING NOW THE PRIMARY REMOTE ALTIMETER
2. REMOVED COLUMBIA ALTIMETER SETTING MINIMUMS AND RAISED S-27 MINIMUMS FROM 3560 TO 3860 AND CAT B VIS FROM 1 SM TO 1 1/4 SM - PRIMARY REMOTE ALTIMETER IN USE
3. REMOVED FINAL STEPDOWN AT 2.5 NM TO RWY 27 - NO LONGER GIVES LOWER MINIMUMS
4. REMOVED NOTE *3860 WHEN USING COLUMBIA ALTIMETER SETTING - COLUMBIA NOW PRIMARY REMOTE ALTIMETER
5. AIRPORT ELEVATION/TDZE CHANGED FROM 2930 TO 2933 - NEW AIRPORT DATA
6. ADDED NOTE PROCEDURE NA AT NIGHT - IAW 8260.19I PARA 8-6-11 (2)(A)
7. ADDED CHART PLANVIEW NOTE: FINAL APPROACH OFFSET 14.99 DEGREES - IAW 8260.19I PARA G8-6-10(1)
8. ADDED HELICOPTER VISIBILITY RESTRICTION - IAW 8260.19I PARA 8-6-11 K(3)
9. ADDED DESCENT ANGLE TO ADDITIONAL FLIGHT DATA - IAW 8260.19I PARA 8-6-100
10. ADDED NOTE VGSI AND DESCENT ANGLES NOT COINCIDENT - IAW 8260.19I PARA 8-6-9M2
11. RAISED MISSED APPROACH ALTITUDE FROM 4500 TO 4600 - NEW AIRSPACE CALCULATION
12. CHANGED MISSED INSTRUCTIONS FROM CLIMB TO 4500 ON 275 COURSE TO UPCIM AND HOLD TO CLIMB TO 4500 DIRECT UPCIM AND HOLD AND CHANGED THE TF LEG TO A DF LEG - GPS APPROACH BUILD REQUIREMENT
13. ADDED CHART 175K ICON FOR UPCIM HOLDING PATTERN TO ADDITIONAL FLIGHT DATA - CHARTING REQUIREMENT

3/27/23: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/1/22.

1. REMOVED IJOBA TO RW27: 3.25/40
2. ADDED NOTE TO ADDITIONAL FLIGHT DATA "CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES"
3. REMOVED NOTE "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})"



AIRPORT ID
E45

PROCEDURE NAME
GPS RWY 27

ORIGINAL/AMENDMENT
ORIG-D

CITY
GROVELAND

STATE
CA

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA **OTHER:** ZOA, RUI FSS, AMGR

FLIGHT CHECKED BY
GARY JOHN VEER

Digitally signed by
JASON KRETSCHMER

OFFICE
FIOG

DATE
03/22/2023

Apr 12, 2023

DEVELOPED BY
ROSE BOONE-WALT

Digitally signed by
ROSE BOONE-WALT

OFFICE
AJV-A421

DATE
11/01/2022

Apr 03, 2023

APPROVED BY
MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER

OFFICE
AJV-A420

DATE

TITLE
MANAGER

Apr 12, 2023



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

<u>AIRPORT ID</u> E45	<u>PROCEDURE NAME</u> GPS RWY 27	<u>AMDT NO.</u> ORIG-D	<u>CITY</u> GROVELAND	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 2933	<u>FACILITY</u> GPS
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
BAGBY

TO
COCPE

RNP DISTANCE PAT MAP HAT HMAS
 10.15

<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>
1.100' TREE	374000.00N/1200700.00W	3874	1000	3	6A	1000					4800
2.TERRAIN	374000.00N/1200700.00W	3774 (3800)								AS1500	5300

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
COCPE

TO
JEYCU/1.00 NM TO IJOBA

RNP DISTANCE PAT MAP HAT HMAS
 4.00

<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>
3.100' TREE	374813.00N/1200225.00W	4099	50	20	2C	500					4600
4.TERRAIN	374813.00N/1200225.00W	3999 (4000)								AS1000	5000

COMPUTATIONS

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

SEGMENT REMARKS:



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INTERMEDIATE: STEPDOWN

FROM
JEYCU/1.00 NM TO IJOBA

TO
IJOBA

RNP	DISTANCE 1.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.100' TREE	374812.00N/1200518.00W		3549	50	20	2C	500				DG651	4700
6.TERRAIN	374812.00N/1200518.00W		3449 (3400)								AS1000	4400

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: GPS

FROM
IJOBA

TO
RW27

RNP	DISTANCE 5.00	PAT	MAP RW27	HAT 927			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	375012.00N/1200803.00W		3449	50	20	2C	250				RA149	3860

COMPUTATIONS

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

SEGMENT REMARKS:



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MISSED APPROACH : GPS

FROM
RW27 **TO**
UPCIM

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
3451

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4600
POLE (06-217121)	375205.92N/1201100.56W	3025	250	50	4D	1000					4100
TERRAIN	375118.00N/1201351.00W	3100 (3100)								AS1500	4600

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

MSA

CENTER **RADIUS**
RW27 25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	100' TREE		049	26.0	9088	1000	3	6A	1000			10100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZOA ARTCC, RIU FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	KO22	24	KO22	15.09	Y	148.4

<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09 - MIRL (PCL), VASI-2L	NPI-G	
RW27 - MIRL (PCL), PAPI-2L (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>	<u>TCH</u>
					4.00	20.9

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

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

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



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

PENETRATIONS REMARKS:

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PART C: GENERAL REMARKS:

100' ADVERSE ASSUMPTION FOR TREE HEIGHT.
UNABLE TO PUBLISH VDP DUE TO PRIMARY REMOTE ALTIMETER.
NO SUITABLE LOCAL ALTIMETER AVAILABLE.
20:1 AND 34:1 SURFACES ASSUMED TO BE PENETRATED DUE TO LACK OF SURVEY.
FLIGHT INSPECTION RESULTS DO NOT WARRANT A VDA.
COMPUTED PROCEDURE VDA/TCH: 3.25/40.00, REMOVED PER FLIGHT INSPECTION
REDESIGN FOR VDA/TCH OUTSIDE SCOPE OF PROJECT - THIS PROCEDURE IS FORECAST TO BE CANCELLED.



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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	5.30
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	305.53
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3800
DISTANCE FROM	THLD	TO 1500FT POINT	10.40
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	320.57
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD
COORDINATES
(IF STR-IN) 375135.73N/1201021.64W

ARP COORDINATES 375142.00N/1201042.80W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 27 DISTANCE 0.30 NM

FAF
COORDINATES 374841.29N/1200513.35W

FIX NAME
COORDINATES

REMARKS



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GPS

PART E: PREPARED BY

NAME
ROSE BOONE-WALT

OFFICE
AJV-A421

DATE
11/01/2022

TITLE
AERONAUTICAL INFORMATION SPECIALIST

