

**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 ID</u> 2G4	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> OAKLAND	<u>STATE</u> MD
<u>AIRPORT ELEVATION</u> 2933	<u>TDZE</u> 2933	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>DATED</u> 01/08/2015	<u>MAG VAR</u> 9W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> 2	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2010
		<u>ACTUAL EFFECTIVE DATE</u> 5 SEPTEMBER 2024	<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 358/30 CW 178/30	NOPT	358/15 CW 178/15		6400
2. 358/15 CW 178/15		PINIC	IF/IAF	5700
3. 178/30 CW 358/30		178/15 CW 358/15		6500
4. 178/15 CW 358/15		PINIC	IF/IAF	5700

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>
PINIC	IF/IAF	ZABSO		TF	FB	1.00	087.76	7.79	4600
ZABSO	FAF	RW09	MAP	TF	FO	0.30	087.86	5.10	
RW09	MAP	3183 MSL		CA			087.86		
3183 MSL		HABEX		DF	FO	1.00			5600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5600 DIRECT HABEX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD W PINIC, RT, 087.76 INBOUND, 5700 FT. IN LIEU OF PT (IAF), MAX 8000.														
3.	FAC:	087.86	FAF:	ZABSO	DIST FAF TO MAP:	5.10	DIST FAF TO THLD:	5.10							
4.	MIN ALT:	PINIC 5700, ZABSO 4600													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.65	GS ANT:				
6.	MIN GP INCPT:	4600	GP ALT AT PFAF:	ZABSO 4600					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	42.5							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MGW ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MGW ALTIMETER SETTING AND INCREASE LPV DA TO 3483 FEET AND ALL VISIBILITIES 7/8 SM. INCREASE LNAV/VNAV DA TO 3538 FEET AND ALL VISIBILITIES 7/8 SM; INCREASE ALL MDAS 300 FEET AND LNAV VISIBILITY CAT C 7/8 SM, AND CIRCLING VISIBILITY CAT C 1 SM.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 3080 TREE 393454N/0792030W.

HOLD E, RT, 268.09 INBOUND.
CHART VDP AT 1.14 NM TO RW09.
WAAS CHANNEL # 69624
REFERENCE PATH ID: W09A
CHART CIRCLING ICON.
LTP HAE: 862.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	3183	3/4	250	3183	3/4	250	3183	3/4	250		NA				
LNAV/VNAV DA	3238	7/8	305	3238	7/8	305	3238	7/8	305		NA				
LNAV MDA	3340	1	407	3340	1	407	3340	1 1/8	407		NA				
CIRCLING	3380	1	447	3400	1	467	3500	1 1/2	567		NA				



CHANGES - REASONS

1. ADDED PBN REQUIREMENTS NOTE RNP APCH - GPS - REQUIRED TO ANNOTATE THE PBN NAVSPEC AND SENSOR.
2. CHANGED MISSED APPROACH FROM CLIMB TO 5600 DIRECT HABEX AND HOLD TO CLIMB TO 5600 DIRECT HABEX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5600 - AIRCRAFT ALTITUDE AT CLEARANCE LIMIT IS LOWER THAN THE MISSED APPROACH ALTITUDE.
3. INCREASED TAA SECTOR 178/30 CW 358/30 TO 178/15 CW 358/15 ALTITUDE FROM 6400 TO 6500 - NEW TERRAIN AND OBSTACLE DATA EVALUATED.
4. CHANGED BACKUP ALTIMETER NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MORGANTOWN ALTIMETER SETTING AND INCREASE ALL DA AND MDA 300 FEET. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1 1/8 MILE, LNAV CAT C VISIBILITY 7/8 MILE AND CIRCLING CAT C VISIBILITY 1 MILE TO CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MGW ALTIMETER SETTING AND INCREASE LPV DA TO 3483 FEET AND ALL VISIBILITIES 7/8 SM. INCREASE LNAV/VNAV DA TO 3538 FEET AND ALL VISIBILITIES 7/8 SM; INCREASE ALL MDAS 300 FEET AND LNAV VISIBILITY CAT C 7/8 SM, AND CIRCLING VISIBILITY CAT C 1 SM - NEW OBSTACLE EVALUATION AND UPDATED CRITERIA IN 8260.3E, CHAPTER 3.
5. REMOVED NOTE DME/DME RNP-0.3 NA - NO LONGER REQUIRED.
6. UPDATED NOTE FROM BARO-VNAV AND VDP NA WHEN USING MORGANTOWN ALTIMETER SETTING TO BARO-VNAV AND VDP NA WHEN USING MGW ALTIMETER SETTING - LOCATION ID USED IAW 8260.19J.
7. CHANGED NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C - CRITICAL TEMPERATURES DOCUMENTED IN CELCIUS ONLY IAW 8260.19J PARA 8-6-10R.
8. CHANGED NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED TO RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19J, PARA 8-6-12K(2).
9. UPDATED FAS OBST FROM 3032 TREE 393503N/0792034W TO 3080 TREE 393454N/0792030W - NEW CONTROLLING OBSTACLE.
10. CHANGED CHART VDP FROM 1.01 MILES TO RW09* *LNAV ONLY TO 1.14 NM TO RW09 - NO LONGER REQUIRED TO SPECIFY LNAV ONLY, DISTANCE CHANGED DUE TO LNAV MDA CHANGE FROM 3300 TO 3380 AND TCH CHANGE FROM 44 FT TO 42.5 FT.
11. CHANGED LNAV/VNAV ALL CATS DA/HAT/VIS FROM 3183/250/ 3/4 TO 3238/305/ 7/8, LNAV ALL CATS MDA/HAT FROM 3300/367 TO 3340/407 AND CAT D VIS FROM 1 TO 1 1/8, CIRCLING CAT A CMDA/HAA FROM 3340/407 TO 3380/447 - NEW CONTROLLING OBSTACLE.
12. CRC REMAINDER CHANGED FROM 86708587 TO 4881794F - UPDATED FAS DATA FPAP LAT/LONG CHANGED FROM 393503.2940N/0791847.6000W TO 393503.2900N/0791847.5985W, LENGTH OF OFFSET FROM 1232 TO 1224, TCH FROM 44 FT TO 42.5 FT.
13. CHANGED ALTERNATE MINIMUMS FROM NA TO STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE - BACKUP ALTIMETER IS AVAILABLE.
14. TCH CHANGED FROM 43.9 TO 42.5 - MATCH NEWLY INSTALLED VGSI TCH.
15. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - NO PENETRATIONS OF THE 20:1 SURFACE, DOCUMENTED IAW 8260.19J PARA 8-6-7G.3(A).

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZOB, AMGR

FLIGHT CHECKED BY

MICHAEL G CAMPBELL

Digitally signed by

BEV L BORDY

Jul 08, 2024

OFFICE

FPO

DATE

07/02/2024

DEVELOPED BY

GUY COPELAND

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DATE

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Jul 08, 2024

OFFICE

AJV-A430

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	2G4
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	393446.1865N
LTP/FTP LONGITUDE	0792040.7015W
LTP/FTP ELLIPSOIDAL HEIGHT	+08627
FPAP LATITUDE	393503.2900N
FPAP LONGITUDE	0791847.5985W
THRESHOLD CROSSING HEIGHT (TCH)	00042.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	4881794F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+08940
FPAP ORTHOMETRIC HEIGHT	+08940

