

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> IAD	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 1R	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WASHINGTON	<u>STATE</u> DC
<u>AIRPORT ELEVATION</u> 312	<u>TDZE</u> 312	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 1R	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 07/15/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 16 MAY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 10W
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ESPN	IAF	ELLLA		TF	FB	1.00	010.66	3.71	7000
ELLLA		FAWLR		TF	FB	1.00	010.66	3.10	6000
FAWLR	IAF	TREAA		TF	FB	1.00	010.67	3.76	5000
TREAA		TWOOT		TF	FB	1.00	010.66	3.11	4000
TWOOT	IAF	ESTYN		TF	FB	1.00	010.67	3.29	3000
GNATZ	IAF	GRASK		TF	FB	1.00	098.62	7.41	5000
GRASK		LAZER		TF	FB	1.00	086.40	5.30	4000
LAZER		TWOOT		TF	FB	1.00	062.15	6.86	4000
HUFFF	IAF	JMATZ		TF	FB	1.00	098.32	8.86	6000
JMATZ		LAWWS		TF	FB	1.00	089.53	5.62	6000
LAWWS		FAWLR		TF	FB	1.00	074.56	4.62	6000
ESTYN	IF	EDSCO		TF	FB	1.00	010.67	3.15	2000
EDSCO		WAXIN	PFAF	TF	FB	1.00	010.66	1.57	1500
WAXIN	FAF	RW01R	MAP	TF	FO	0.30	010.67	3.56	
RW01R	MAP	780 MSL		CA					780
780 MSL		JCOBY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 780, THEN CLIMBING RIGHT TURN TO 3000 DIRECT JCOBY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT ESPNN														
3.	FAC:	010.67	FAF:	WAXIN	DIST FAF TO MAP:	3.56	DIST FAF TO THLD:	3.56							
4.	MIN ALT:	ESPNN 7000, ELLLA 7000, FAWLR 6000, TREAA 5000, TWOOT 4000, ESTYN 3000, EDSCO 2000, WAXIN 1500													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		200 HAT:	0.46	GS ANT:				
6.	MIN GP INCPT:	1500	GP ALT AT PFAF:	WAXIN 1500			OM:				MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.2							
8.	MSA FROM:	RW01R 3500													

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000 AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 096.17 INBOUND.
CHART FAS OBST: 514 BUILDING (51-020315) 385502N/0772539W.
CHART R-6608A/B/C.
CHART VDP AT 1.24 NM TO RW01R.
WAAS CHANNEL # 56409
REFERENCE PATH ID: W01A
CHART AT OR ABOVE 7000 AT ESPNN.
CHART AT OR ABOVE 5000 AT GNATZ.
CHART AT OR ABOVE 6000 AT HUFFF.
LTP HAE: 63.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD; STANDARD - CAT D 900-2 3/4

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	512	1800	200	512	1800	200	512	1800	200	512	1800	200			
LNAV/VNAV DA	728	4000	416	728	4000	416	728	4000	416	728	4000	416			
LNAV MDA	780	2400	468	780	2400	468	780	5000	468	780	5000	468			
CIRCLING	940	1	628	940	1	628	940	1 3/4	628	1180	2 3/4	868			

QUALITY
10
CHECKED

CHANGES - REASONS

1. MOVED PFAF WAXIN NORTH 1.2 NM, SHORTENED FINAL APPROACH COURSE FROM 4.76 NM TO 3.56 NM, AND ADJUSTED ALTITUDE FROM 1900 TO 1500 - REQUESTED BY ATC/FPT FOR NOISE ABATEMENT MITIGATION.
2. REMOVED INITIAL SEGMENTS CSN VORTAC-MOSBY AND BRV VORTAC-MOSBY AND REMOVED INTERMEDIATE SEGMENT MOSBY-WAXIN - INTERMEDIATE AND INITIAL SEGMENTS REDESIGNED FOR NOISE ABATEMENT MITIGATION.
3. ADDED INTERMEDIATE SEGMENT ESTYN 3000 -EDSCO 2000 -WAXIN 1500 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
4. ADDED INITIAL SEGMENT ESPNN 7000 -ELLLA 7000 -FAWLR 6000 -TREAA 5000 -TWOOT 4000 -ESTYN 3000 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
5. ADDED INITIAL SEGMENT GNATZ 5000 -GRASK 5000 -LAZER 4000 -TWOOT 4000 -ESTYN 3000 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
6. ADDED INITIAL SEGMENT HUFFF 6000 -JMATZ 6000 -LAWWS 6000 -FAWLER 6000 -TREAA 5000 -TWOOT 4000 -ESTYN 3000 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
7. ADDED INITIAL SEGMENT FAWLR 6000 -TREAA 5000 -TWOOT 4000 -ESTYN 3000 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
8. ADDED INITIAL SEGMENT TWOOT 4000 -ESTYN 3000 - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
9. CHANGED MISSED APPROACH FROM 'CLIMB TO 3000 DIRECT FUREE AND ON 059.63 TRACK TO BLITZ AND HOLD' TO 'CLIMB TO 780, THEN CLIMBING RIGHT TURN TO 3000 DIRECT JCOBY AND HOLD' - NEW DESIGN FOR NOISE ABATEMENT MITIGATION.
10. REMOVED MISSED HOLD PATTERN AT BLITZ AND REPLACED WITH HOLDING AT JCOBY, HOLD W, LT, 096.17 INBOUND - NEW DESIGN FOR NOISE ABATEMENT MITIGATION. LEFT TURNS TO AVOID KDCA AIRSPACE.
11. PROFILE LINE 2: CHANGED FROM 'PROFILE STARTS AT MOSBY' TO 'PROFILE STARTS AT ESPNN' - MOSBY INTERMEDIATE FIX REPLACED BY ESPNN INITIAL FIX.
12. PROFILE LINE 4: CHANGED FROM 'MOSBY 3000, WAXIN 1900' TO 'ESPNN 7000, ELLLA 7000, FAWLR 6000, TREAA 5000, TWOOT 4000, ESTYN 3000, EDSCO 2000, WAXIN 1500' - DEPICTS MINIMUM ALTITUDES OF NEW FINAL COURSE FIXES.
13. PROFILE LINE 6: CHANGED MIN GP INCPT AND GP ALT AT PFAF FROM 1900 TO 1500 - PFAF MOVED NORTH 1.2 NM WITH CORRESPONDING ALTITUDE CHANGE AT PFAF USING A 3.00 DEGREE GLIDEPATH.
14. PROFILE LINE 7: ADDED '20:1: IS CLEAR AND CHANGED TCH FROM 52.6 TO I-IAD GLIDESLOPE DESIGN TCH 55.2 - NO 20:1 VISUAL SURFACE PENETRATIONS EXIST AND TCH PER AIRNAV.
15. UPDATED PBN REQUIREMENTS NOTE FROM 'RNP APCH' TO 'RNP APCH - GPS' - PER 8260.19I PARA. 8-6-8B(2).
16. CHANGED NOTE FROM 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 48C TO 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13C OR ABOVE 54C' - UP-TO-DATE 5-YEAR WEATHER HISTORY USED TO CALCULATE NEW TEMPERATURES.
17. CHANGED NOTE 'SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC/DME RWY 1L, ILS RWY 1L CAT (II), ILS RWY 1L CAT (III)' TO 'SIMULTANEOUS APPROACH AUTHORIZED' - PER 8260.19I PARA. 8-6-11O(8)(A).
18. CHANGED NOTE 'USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS' TO 'USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS' - PER 8260.19I PARA. 8-6-11O(8)(D).
19. REMOVED NOTE '*LNAV ONLY' AND ASSOCIATED ASTERISKS FROM VDP AT 1.31 TO RW01R - NO LONGER REQUIRED BY CRITERIA.
20. REMOVED SECOND FAS OBST 443 T-L TWR 385531N/0772547W - NO LONGER APPLICABLE.
21. REMOVED 7:1 OBST 451 TOWER 385049N/0772601W - NO LONGER APPLICABLE.
22. ALTERNATE MINIMUMS CHANGED FROM STANDARD - CAT D 800-2 1/2 TO STANDARD - CAT D 900-2 3/4 - DUE TO INCREASE IN CIRCLING CAT D MINIMUMS.
23. LOWERED LNAV/VNAV DA/HAT FROM 764/452 TO 728/416 AND REDUCED RVR FROM 5000 TO 4000 - UP-TO-DATE 5-YEAR WEATHER HISTORY USED AND RVR PER 8260.3E TABLES 3-3-1, 3-3-3, AND 3-3-4.
24. LOWERED LNAV MDA/HAT FROM 800/488 TO 780/468 AND INCREASED CAT C RVR FROM 4000 TO 5000 - PREVIOUS MISSED PENETRATION ADJUSTMENT NO LONGER APPLIES AND RVR INCREASE PER 8260.3E TABLE 3-3-1.
25. VDP LOCATION CHANGED FROM 1.31 NM TO RW01R TO 1.24 NM TO RW01R - ADJUSTED FOR LOWERED LNAV MDA/HAT.
26. RAISED CIRCLING CAT D MDA/HAA FROM 1060/747 TO 1180/868 AND INCREASED VISIBILITY FROM 2 1/2 TO 2 3/4 - NEW CONTROLLING OBSTACLE. VISIBILITY PER 8260.3E TABLE 3-3-7.
27. AIRPORT ELEVATION LOWERED FROM 313 TO 312 - DATA PULL FROM AIRNAV AND UPDATED AIRPORT SURVEY.
28. FAS DATA: LTP COORDINATES CHANGED FROM 385525.5300N/0772611.2200W TO 385525.5240N/0772611.2130W - PULLED FROM AIRNAV.
29. FAS DATA: FPAP COORDINATES CHANGED FROM 385720.9900N/0772609.4900W TO 385719.1840N/0772609.5085W - TARGETS OUTPUT AFTER LTP COORDINATES CHANGE.
30. FAS DATA: LTP ELLIPSOIDAL HEIGHT CHANGED FROM 63.2 M TO 63.1 M - DATA PULL FROM AIRNAV.
31. FAS DATA: COURSE WIDTH AT THRESHOLD CHANGED FROM 107 TO 106.75 - NEW ENTRY ROUNDED TO NEAREST 0.25 METER INCREMENT PER 8260.58B PARA. 3-1-5C(3).
32. LENGTH OFFSET CHANGED FROM 0056 TO 0000 - RESULT COMPUTED AFTER LTP/FPAP COORDINATES CHANGES.
33. FAS DATA: CRC REMAINDER CHANGED FROM BB7710C3 TO BDE3BB86 - RESULT FROM CHANGES TO LTP AND FPAP COORDINATES, LTP ELLIPSOIDAL HEIGHT, LENGTH OFFSET, AND COURSE WIDTH AT THRESHOLD.
34. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000 AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM - PER 8260.3E TABLE 3-3-1 AND THE INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE.
35. RAISED MSA ALTITUDE FROM 3400 TO 3500 - NEW CONTROLLING OBSTRUCTION.

QUALITY
10
CHECKED

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER:

PCT APCH, LAD ATCT, APT MNGR

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by

ALLAN WILL

Mar 08, 2024

OFFICE

FPO

DATE

03/07/2024

DEVELOPED BY

RALPH DUMAR

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RALPH DUMAR

Feb 02, 2024

OFFICE

AJV-A422

DATE

11/17/2023

APPROVED BY

BEV L BORDY

Digitally signed by

ALLAN WILL

Mar 08, 2024

OFFICE

AJV-A420

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KIAD
RW01R
0
Y
0
W01A
385525.5240N
0772611.2130W
+00631
385719.1840N
0772609.5085W
00055.2
F
03.00
106.75
0000
40.0
35.0

CRC REMAINDER

BDE3BB86

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K6
+00950
+00950

