

**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> FCI	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> ORIG-F	<u>CITY</u> RICHMOND	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 236	<u>TDZE</u> 217	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>DATED</u> 12/02/2021	<u>MAG VAR</u> 10W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 NOVEMBER 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2005
			<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>
RIC VORTAC		SALPE		TF	FO	1.00	198.86	15.18	2000
JUNKI	IAF	SALPE	NOPT	TF	FB	1.00	331.27	4.01	2000
SALPE	IF/IAF	PUBBS		TF	FB	1.00	331.20	6.02	2000
PUBBS	FAF	RW33	MAP	TF	FO	0.30	331.16	5.41	
RW33	MAP	510 MSL		CA			331.16		
510 MSL		DOCEV		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT DOCEV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD SE SALPE, LT, 331.20 INBOUND, 2000 IN LIEU OF PT (IF/IAF), MAX 6000.
- FAC: 331.16 FAF: PUBBS DIST FAF TO MAP: 5.41 DIST FAF TO THLD: 5.41
- MIN ALT: SALPE 2000, PUBBS 2000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 293 HAT: 0.81 GS ANT: MM: IM:
- MIN GP INCPT: 2000 GP ALT AT PFAF: PUBBS 2000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 48.8
- MSA FROM: RW33 2600



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RIC ALTIMETER SETTING.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL VISIBILITIES TO 7/8 SM, INCREASE LNAV/VNAV ALL VISIBILITIES TO 1 3/8, AND INCREASE LNAV VISIBILITY CATS C/D TO 1 3/8 SM.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING AND INCREASE LPV DA TO 547 FEET; INCREASE LNAV/VNAV DA TO 757 FEET; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 151.00 INBOUND.

CHART FAS OBST: 387 TOWER (51-090640) 372245N/0773030W.

CHART VDP AT 1.47 NM TO RW33.

WAAS CHANNEL # 56221

REFERENCE PATH ID: W33A

LTP HAE: 27.5 M

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	510	1/2	293	510	1/2	293	510	1/2	293	510	1/2	293			
LNAV/VNAV DA	720	1	503	720	1	503	720	1	503	720	1	503			
LNAV MDA	720	1/2	503	720	1/2	503	720	1	503	720	1	503			
CIRCLING	720	1	484	820	1	584	820	1 1/2	584	1020	2 1/2	784			

CHANGES - REASONS

1. INCORPORATED THE CHANGES IN AMENDMENTS A THROUGH E.
2. PROFILE LINE 3: UPDATED FINAL APPROACH COURSE FROM "331.15" TO "331.16" AND UPDATED DISTANCE FROM FAF TO MAP/THLD FROM "5.41" TO "5.50" - TO CORRECT A PREVIOUS ERROR/DIFFERENCE IN EVALUATION SOFTWARE.
3. PROFILE LINE 5: ADDED "293 HAT: 0.81" AND REMOVED FROM ADDITIONAL FLIGHT DATA "DISTANCE TO THLD FROM 299 HAT: 0.82 NM" - IAW 8260.19J, 8-6-7. E.
4. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - THERE ARE NO 20:1 PENETRATIONS/IAW 8260.19J.
5. PBN REQUIREMENTS NOTE: ADDED "RNP APCH – GPS" – IAW 8260.19J, 8-6-8B.
6. NOTES: REMOVED CHART NOTE: "DME/DME RNP-0.3 NA" - NOT REQUIRED BY CURRENT CRITERIA.
7. NOTES: REMOVED FAHRENHEIT TEMPS ON BARO-VNAV NA NOTE - IAW 8260.19J, 8-6-10.R.
8. NOTES: CHANGED FROM: "FOR INOP MALSR WHEN USING RICHMOND INTL ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 1/8 MILE" TO "FOR INOP ALS WHEN USING RIC ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITIES TO 1 1/8 SM" - NEW VISIBILITY TABLES AND FORMAT IAW 8260.19J.
9. NOTES: CHANGED FROM "FOR INOP MALSR, INCREASE LPV ALL CATS VISIBILITY TO 1 MILE AND LNAV CAT C/D TO 1 3/8 MILE" TO "FOR INOP ALS, INCREASE LPV ALL VISIBILITIES TO 7/8 SM, INCREASE LNAV/VNAV ALL VISIBILITIES TO 1 3/8, AND INCREASE LNAV VISIBILITY CATS C/D TO 1 3/8 SM." - NEW VISIBILITY TABLES AND FORMAT IAW 8260.19J.
10. NOTES: CHANGED FROM "BARO-VNAV AND VDP NA WHEN USING RICHMOND INTL ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING RIC ALTIMETER SETTING" - IAW 8260.19J.
11. NOTES: CHANGED: FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RICHMOND INTL ALTIMETER SETTING; INCREASE LPV DA TO 546 AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 634 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM AND CIRCLING VISIBILITY CAT D 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING AND INCREASE LPV DA TO 547 FEET; INCREASE LNAV/VNAV DA TO 757 FEET; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" - IAW 8260.19J.
12. ADDITIONAL FLIGHT DATA: VDP CHANGED FROM "1.48" NM TO "1.47" NM - IAW 8260.3G FORMULA 2-6-5.
13. MINIMUMS: RAISED LNAV/VNAV DA/HAT FROM "598/381" TO "720/503" AND INCREASED VISIBILITY FROM "7/8" TO "1" - NEW CONTROLLING OBSTACLE 387 TOWER (51-090640) 372245.08N/0773029.82W (4D).
14. MINIMUMS: RAISED CIRCLING CAT B AND CAT C MDA/HAA FROM "760/524" TO "820/584", NEW CONTROLLING OBSTACLE, 517 MSL TOWER (51-080946) (37260081.00N/0773119.99W) (1A).
15. MINIMUMS: ALTERNATE MINIMUM NOTE CHANGED FROM "NA" TO "STANDARD - CAT D 800-2 1/2 - NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19J 8-6-12 B.(4) / PRIMARY ALTIMETER ON WMSCR.
16. TERMINAL ROUTES: ADDED RNP VALUES TO ALL SEGMENTS - 8260.58C, TABLE 1-2-1.
17. TERMINAL ROUTES: CHANGED CA ALTITUDES FROM "492 MSL" TO "510 MSL" - CRITERIA CHANGED FROM THRESHOLD TO TOUCHDOWN ZONE ELEVATION.
18. FAS DATA: FPAP COORDINATES CHANGED FROM "372511.4400N/0773218.2200W" TO "372511.4305N/0773218.2230W" – PER UPDATED TARGETS CALCULATION.
19. FAS DATA: CRC REMAINDER CHANGED FROM "84557372" TO "33623F4C" - RESULT OF CHANGE IN FPAP COORDINATES.

09/15/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/26/25.

1. CHANGED CHART NOTE: "FOR INOP ALS, INCREASE LPV ALL VISIBILITIES TO 7/8 SM, INCREASE LNAV/VNAV ALL VISIBILITIES TO 1 3/8, AND INCREASE LNAV VISIBILITY CATS C/D TO 1 3/8 SM" TO "FOR INOPERATIVE ALS, INCREASE LPV ALL VISIBILITIES TO 7/8 SM, INCREASE LNAV/VNAV ALL VISIBILITIES TO 1 3/8, AND INCREASE LNAV VISIBILITY CATS C/D TO 1 3/8 SM." – IAW 8260.19K 8-6-11 (O)(3).
2. REMOVED: CHART NOTE: FOR INOP ALS WHEN USING RIC ALTIMETER SETTING, INCREASE LPV ALL VISIBILITIES TO 1 SM. – NOT REQUIRED.
3. CHANGED CHART NOTE: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING AND INCREASE LPV DA TO 757 FEET, INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" TO " WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING AND INCREASE LPV DA TO 547 FEET; INCREASE LNAV/VNAV DA TO 757 FEET; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM." – CORRECTED ERROR.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, PCT TRACON, RIC ATCT, AMGR, VA DOT

FLIGHT CHECKED BY MICHAEL GRANT CAMPBELL	<i>Digitally signed by</i> ALLAN WILL Sep 23, 2025	OFFICE FIOG	DATE 08/22/2025
DEVELOPED BY LIAM DONAHUE (LISA DUDZINSKI)	<i>Digitally signed by</i> ALLAN WILL Sep 23, 2025	OFFICE AJV-A4	DATE 05/15/2025
APPROVED BY KYLE THOMPSON	<i>Digitally signed by</i> ALLAN WILL Sep 23, 2025	OFFICE AJV-A4	DATE 10/23/2025
			TITLE MANAGER



AIRPORT ID
FCI

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
ORIG-F

CITY
RICHMOND

STATE
VA

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFCI
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	372402.0050N
LTP/FTP LONGITUDE	0773107.9955W
LTP/FTP ELLIPSOIDAL HEIGHT	+00275
FPAP LATITUDE	372511.4305N
FPAP LONGITUDE	0773218.2230W
THRESHOLD CROSSING HEIGHT (TCH)	00048.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	33623F4C
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00606
FPAP ORTHOMETRIC HEIGHT	+00606

