

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> CVG	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> COVINGTON	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 896	<u>TDZE</u> 875	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 27	<u>DATED</u> 03/24/2022	<u>MAG VAR</u> 6W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2025
				<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>
BREWZ	IAF	BLOCK		TF	FB	1.00	327.46	13.37	3500
YEYUP	IAF	BLOCK		TF	FB	1.00	225.59	13.73	3500
KAYDE	IAF	CIPVO		TF	FB	1.00	276.39	3.41	4000
CIPVO		BLOCK		TF	FB	1.00	276.35	3.26	3500
BLOCK	IF	SOAND		TF	FB	1.00	276.30	3.62	2500
FIBSU	IF	EMUNE		TF	FB	1.00	096.27	3.61	5000
EMUNE		DRATE		RF	FB	1.00	(2.60 NM RADIUS CCW (CFTRB)) ((CFTRB))	4.72	3500
DRATE		SOAND		RF	FB	1.00	(2.60 NM RADIUS CCW (CFTRB)) ((CFTRB))	3.45	2500
ZALED	IF	ANSIN		TF	FB	1.00	096.05	3.57	5100
ANSIN		CARPI		RF	FB	1.00	(2.60 NM RADIUS CW (CFFWJ))	4.73	3500
CARPI		SOAND	PFAF	RF	FB	1.00	(2.60 NM RADIUS CW (CFFWJ))	3.45	2500
SOAND	PFAF	RW27	MAP	TF	FO	0.30	276.26	4.93	
RW27	MAP	1244 MSL		CA			276.26		
1244 MSL		SEMSE		DF	FB	1.00			
SEMSE		AVIEW		TF	FO	1.00	224.71	15.22	3000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT SEMSE AND ON TRACK 224.71 TO AVIEW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
26
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT SOAND														
3.	FAC:	276.26	PFAF:	SOAND	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	SOAND 2500													
5.	DIST TO THLD FROM PFAF:	4.93	MM:	IM:	150 HAT:	369 HAT:	0.98	GS ANT:							
6.	MIN GP INCPT:	2500	GP ALT AT PFAF:	SOAND 2500		OM:		MM:		IM:					
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.4							
8.	MSA FROM:	RW27 3000													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 5500, INCREASE RNP 0.3 ALL CATS VISIBILITY TO 1 3/8 SM.
CHART SPEED ICON IN PLANVIEW AT KAYDE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BLOCK: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT FIBSU: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT ZALD: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 245.95 INBOUND.
CHART MANDATORY 8000 AT BREWZ.
CHART MANDATORY 8000 AT YEYUP.
CHART MANDATORY 6000 AT FIBSU.
CHART MANDATORY 6000 AT ZALD.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.15 DA	1244	3500	369	1244	3500	369	1244	3500	369	1244	3500	369			
RNP 0.23 DA	1260	3500	385	1260	3500	385	1260	3500	385	1260	3500	385			
RNP 0.30 DA	1364	5000	489	1364	5000	489	1364	5000	489	1364	5000	489			



CHANGES - REASONS

1. TERMINAL ROUTES – ADDED INITIAL LEG FROM BREWZ TO BLOCK – ATC REQUESTED
2. TERMINAL ROUTES – ADDED INITIAL LEG FROM YEYUP TO BLOCK – ATC REQUESTED
3. TERMINAL ROUTES – ADDED INITIAL LEG FROM KAYDE TO CIPVO – ATC REQUESTED
4. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM FIBSU TO EMUNE – ATC REQUESTED
5. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM EMUNE TO DRATE – ATC REQUESTED
6. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM DRATE TO SOAND – ATC REQUESTED
7. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM ZALED TO ANSIN – ATC REQUESTED
8. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM ANSIN TO CARPI – ATC REQUESTED
9. TERMINAL ROUTES – ADDED INTERMEDIATE LEG FROM CARPI TO SOAND – ATC REQUESTED
10. TERMINAL ROUTES – ADDED FINAL LEG FROM SOAND TO RW27 – ATC REQUESTED
11. TERMINAL ROUTES – REMOVED INITIAL LEG FROM VOBCU TO CIPVO – ATC REQUESTED
12. TERMINAL ROUTES – REMOVED INTERMEDIATE LEG FROM BLOCK TO WEGDA – ATC REQUESTED
13. TERMINAL ROUTES – REMOVED FINAL LEG FROM WEGDA TO RW27 – ATC REQUESTED
14. TERMINAL ROUTES – CIPVO TO BLOCK COURSE/DISTANCE CHANGED FROM 276.34/2.83 TO 276.35/3.26 – FIXED MOVED TO ACCOMMODATE OTHER IAP PROCEDURES
15. PROFILE LINE 2 – PROFILE START CHANGED FROM VOBCU TO SOAND – MULTIPLE IF WITH NO COMMON FIX BEFORE PFAF
16. PROFILE LINE 3 – FAC CHANGED FROM 276.25 TO 276.26 – FAF POSITION REALIGNED BASED ON ANGLE AND TCH
17. PROFILE LINE 3 – FAF CHANGED FROM FAF:WEGDA TO PFAF:SOAND - DUE TO COMPLETE REBUILD OF THE PROCEDURE REQUESTED BY ATC
18. PROFILE LINE 4 – MIN ALTS CHANGED FROM “VOBCU 5000, CIPVO 4400, BLOCK 3500, WEGDA 2400” TO “SOAND 2500” - DUE TO COMPLETE REBUILD OF THE PROCEDURE REQUESTED BY ATC
19. PROFILE LINE 5 – DIST TO THLD FROM PFAF CHANGED FROM 4.56 TO 4.93 - PFAF POSITION REALIGNED BASED ON ANGLE AND TCH
20. PROFILE LINE 5 – HAT CHANGED FROM 421:1.15 TO 369:0.98 – NEW TARGETS EVALUATION RESULTING IN LOWER MINIMA
21. PROFILE LINE 6 – GP INCPT/ALT AT FAF CHANGED FROM 2400/WEGDA 2400 TO 2500/SOAND 2500 - DUE TO COMPLETE REBUILD OF THE PROCEDURE REQUESTED BY ATC
22. NOTES – INOP ALS NOTES CHANGED FROM “INCREASE RNP 0.23 ALL CATS VISIBILITY TO 1 3/8 SM AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 SM” TO “ INCREASE RNP .15 DA ALL CATS VISIBILITY TO RVR 5500, INCREASE RNP 0.3 DA ALL CATS VISIBILITY TO 1 3/8 SM” - NEW LINES OF MINIMA/NEW DAS
23. NOTES – CHANGED UNCOMPENSATED BARO-VNAV SYSTEMS TEMPS FROM -16/54 TO -14/54 – UPDATED WEATHER DATA
24. NOTES – ADDED CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS - DUE TO COMPLETE REBUILD OF THE PROCEDURE REQUESTED BY ATC
25. NOTES – ADDED “CHART SPEED ICON IN PLANVIEW MAX 210 KIAS” AT KAYDE, FIBSU, ZALED AND BLOCK – TO ACCOMMODATE VECTOR LENGTH OF SEGMENT/PER FPT REQUEST
26. ADDITIONAL FLIGHT DATA – ADDED CHART MANDATORY 8000 AT BREWZ AND YEYUP – ADDED TO MATCH MANDATORY ALTITUDES ON ASSOCIATED STARS.
27. ADDITIONAL FLIGHT DATA – ADDED CHART MANDATORY 6000 AT FIBSU AND ZALED – ADDED TO MATCH MANDATORY ALTITUDES ON ASSOCIATED STARS.
28. MINIMUMS – RNP 0.15 DA DA/VIS/HAT CHANGED FROM 1296/4000/421 TO 1244/3500/369 – NEW CONTROLLING OBSTACLE
29. MINIMUMS – RNP 0.23 DA DA/VIS/HAT CHANGED FROM 1378/5500/503 TO 1260/3500/385 – NEW CONTROLLING OBSTACLE
30. MINIMUMS – RNP 0.30 DA DA/VIS/HAT CHANGED FROM 1445/1 1/4/570 TO 1364/5000/489 – NEW CONTROLLING OBSTACLE
31. MAGVAR EPOCH YEAR CHANGED FROM 2020 TO 2025 - PER CURRENT AIRNAV DATA
32. MISSED CHANGED FROM “CLIMB TO 3000 ON TRACK 276.20 TO SEMSE AND ON TRACK 220.31 TO AVIEW AND HOLD” TO “CLIMB TO 3000 DIRECT SEMSE AND ON TRACK 224.71 TO AVIEW AND HOLD - RNAV MISSED APPROACH REQUESTED BY FPT.
33. ADDED ALTERNATE MINIMUM “STANDARD” - IAW 8260.3F 3-4.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, CVG APP CON, CVG ATCT, AMGR

FLIGHT CHECKED BY

ERIC L GEYER

Digitally signed by
CASIMIR L TABAKA
Feb 28, 2025

OFFICE

AJF

DATE

02/26/2025

DEVELOPED BY

TYLER MITCHELL

Digitally signed by
TYLER D MITCHELL
Nov 21, 2024

OFFICE

AJV-A432

DATE

10/10/2023

APPROVED BY

JOSEPH L. ZEDER

Digitally signed by
CASIMIR L TABAKA
Feb 28, 2025

OFFICE

AJV-A432

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
CVG	RNAV (RNP) Z RWY 27	1	COVINGTON	KY	896	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM TO
BREWZ BLOCK

RNP DISTANCE PAT MAP HAT HMAS
1.00 13.37

<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>
TOWER (21-000344)	385733.20N/0842311.80W	1202	250	50	4D	1000				AC50 AT1248	3500
TERRAIN	390139.00N/0842748.00W	908 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM TO
YEYUP BLOCK

RNP DISTANCE PAT MAP HAT HMAS
1.00 13.73

<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>
TOWER (21-001810)	390116.95N/0842840.31W	1151	500	50	5D	1000				AC50 AT1299	3500
TERRAIN	390142.00N/0842733.00W	892 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM

KAYDE

TO

CIPVO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.41										
<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>
AAO	390430.00N/0841818.00W	1116	215	8	4B	1000				AC8 AT1876	4000
TERRAIN	390433.00N/0841942.00W	879 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL STEPDOWN

FROM

CIPVO

TO

BLOCK

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.26										
<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>
TOWER (21-001810)	390116.95N/0842840.31W	1151	500	50	5D	1000				AC50 AT1299	3500
TERRAIN	390139.00N/0842748.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

BLOCK

TO

SOAND

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.62										
<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>
TOWER (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	500				AC50 AT631	2500
TERRAIN	390336.00N/0843230.00W	915 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

FIBSU

TO

EMUNE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.61										
<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>
TOWER (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT3190	5000
TERRAIN	385718.00N/0843721.00W	964 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

EMUNE

TO

DRATE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	4.72				

<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>
TOWER (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT1690	3500
TERRAIN	385539.00N/0843242.00W	941 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

EMUNE-DRATE

ALT

5000

KIAS

210

KTAS

232.25

HAA

4103.9

VKTW

51.28

TR

2.60

BA

24.29

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFTRB)/4.71 NM

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

DRATE

TO

SOAND

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.45				

<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>
TOWER (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	500				AC50 AT631	2500
TERRAIN	390336.00N/0843230.00W	915 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

DRATE-SOAND

ALT

3500

KIAS

210

KTAS

227

HAA

2603.9

VKTW

30.61

TR

2.60

BA

20.4

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFTRB)/3.45 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

ZALED

TO

ANSIN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	3.57										
<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>
TOWER (39-000369)	390719.00N/0843253.00W	1714	250	50	4D	500				AC50 AT2836	5100
TERRAIN	390957.00N/0843624.00W	958 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

ANSIN

TO

CARPI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	4.73										
<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>
TOWER (39-000032)	390727.00N/0843118.00W	1788	250	50	4D	500				AC50 AT1162	3500
TERRAIN	390730.00N/0843033.00W	892 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

ANSIN-CARPI

5100

210

232.61

4203.9

40.46

2.61

22.64

0

0

(CFFWJ)/4.73

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

CARPI

TO

SOAND

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.45				

<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>
TOWER (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	500				AC50 AT631	2500
TERRAIN	390336.00N/0843230.00W	915 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

CARPI-SOAND

ALT

3500

KIAS

210

KTAS

227

HAA

2603.9

VKTW

20.86

TR

2.60

BA

19

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFWJ)/3.45

SEGMENT REMARKS:

FINAL

FROM

SOAND

TO

RW27

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.93		DA	489	

<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>
TOWER (21-081228)	390215.30N/0843746.90W	1028	250	50	4D		21.41:1			AC50	1364

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

SOAND

TO

RW27

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.23	4.93		DA				385				
<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>
TREE (21-071135)	390310.38N/0843816.31W	1010	20	3	1A		21.42:1			AC3	1260

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

SOAND

TO

RW27

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.15	4.93		DA				369				
<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>
TREE (21-022673)	390255.58N/0843812.37W	1004	20	3	1A		21.44:1			AC3 MA19	1244

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MINIMUMS REQUESTED BY INDUSTRY, 50 FT REDUCTION NOT ACCOMPLISHED.

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

AVIEW

<div>RNP</div> <div>0.30-1.00</div>	DISTANCE	PAT	MAP		HAT	HMAS				
							ASC			3000
TOWER (18-000400)	385755.00N/0845651.00W	1252	500	50	5D	1000				2300
TERRAIN	390309.00N/0844027.00W	941 (900)							AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

AVIEW

<div>RNP</div> <div>0.23-1.00</div>	DISTANCE	PAT	MAP		HAT	HMAS				
							ASC			3000
TOWER (18-000400)	385755.00N/0845651.00W	1252	500	50	5D	1000				2300
TERRAIN	390309.00N/0844027.00W	941 (900)							AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LEVEL SURFACE

FROM

DA

TO

AVIEW

RNP

0.15-1.00

DISTANCE

PAT

MAP

HAT

HMAS

1083

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
CONTROL_TOWER (21-001297)	390226.83N/0843931.96W	1159	20	3	1A		ASC				3000
TOWER (18-000400)	385755.00N/0845651.00W	1252	500	50	5D	1000					2300
TERRAIN	390309.00N/0844027.00W	941 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MSA

CENTER

RW27

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-001241)	393044.00N/0843809.00W	008	27.9	1902	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CVG APP CON, CVG TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	CVG	24	CVG	0	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

NO BACKUP ALTIMETER SETTING REQUIRED. REDUNDANT SOURCES ON AIRPORT.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MALSR, C/LINE, HIRL, TDZ, PAPI-4L		PIR-G	APPROACH
RW18L - MALSR, TDZ, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW18C - MALSR, C/LINE, TDZ, HIRL, PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW18R - ALSF-2, HIRL, TDZ, C/LINE		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW27 - MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36L - ALSF-2, TDZ, HIRL, C/LINE		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36C - ALSF-2, TDZ, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW36R - ALSF-2, C/LINE, HIRL, TDZ, PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	875.0	55.4			3.00	67.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<div>X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<div>X</div>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-14C	+54C	-14C	+13.23C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2023).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 966 HIGH TEMP 1275.

"VISUAL PORTION OF FINAL" PENETRATIONS

PENETRATIONS REMARKS:



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

100 FT VEGETATION APPLIED PER FPT.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VDP NOT ESTABLISHED - RNP PROCEDURE
APPROVAL LETTERS FOR MANDATORY ALTITUDES AT FIBSU AND ZALED.
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	3.04
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	270.26
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.62
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	270.26
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	390246.54N/0843910.24W
ARP COORDINATES	390255.82N/0844004.16W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36R DISTANCE 1.57 NM
FAF COORDINATES	390245.39N/0843250.66W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
TYLER MITCHELL	AJV-A432	10/10/2023	AERONAUTICAL INFORMATION SPECIALIST