

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
BN A	RNAV (RNP) Z RWY 20R	3	NASHVILLE	TN	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
599	578	RNAV (RNP) Z RWY 20R	12/11/2014	3W	2010
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
RNAV			ROUTINE		

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>
JOGLO	IAF	IDADE		TF	FB	1.00	020.59	3.77	6800
TURNT	IAF	FLMBE		TF	FB	1.00	110.66	3.80	7000
FLMBE		PICKN		RF	FB	1.00	(7.29 NM RADIUS CW (CFLGD))	11.44	5000
PICKN		HIKRY		TF	FB	1.00	200.70	4.30	4000
RDNEK	IAF	JAQQE		TF	FB	1.00	290.92	4.14	6000
JAQQE		PICKN		RF	FB	1.00	(7.27 NM RADIUS CCW (CFLGF))	11.43	5000
GUITR	IAF	PICKN		TF	FB	1.00	200.67	5.32	5000
SIPPO	IAF	WOKAP		TF	FB	1.00	021.05	3.90	6700
HIKRY	IF	AKUFF		TF	FB	1.00	200.69	3.20	3000
AKUFF		OPERY	PFAF	TF	FB	1.00	200.67	3.15	2000
IDADE	IF	IICKS		TF	FB	1.00	020.61	4.09	5500
IICKS		AKUFF		RF	FB	1.00	(2.50 NM RADIUS CW (CFLGT))	7.85	3000
WOKAP	IF	POORR		TF	FB	1.00	021.07	4.52	5900
POORR		KLOPR		RF	FB	1.00	(2.61 NM RADIUS CCW (CFLGC))	3.14	4900
KLOPR		AKUFF		RF	FB	1.00	(3.20 NM RADIUS CCW (CFLGB))	6.21	3000
OPERY	PFAF	RW20R	MAP	TF	FO	0.30	200.67	4.35	
RW20R	MAP	1200 MSL		CA					1200
1200 MSL		BEVEE		DF	FO	1.00			4000



MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 4000 DIRECT BEVEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)			
2.	PROFILE STARTS AT AKUFF								
3.	FAC:	200.67	PFAF:	OPERY	DIST FAF TO MAP:		DIST FAF TO THLD:		
4.	MIN ALT:	AKUFF 3000, OPERY 2000							
5.	DIST TO THLD FROM PFAF:	4.35	MM:	IM:	150 HAT:	349 HAT:	0.98	GS ANT:	
6.	MIN GP INCPT:	2000	GP ALT AT PFAF:	OPERY 2000		OM:		MM:	IM:
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	60.4	
8.	MSA FROM:	RW20R 3100							

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM JAQQE, FLMBE, IICKS, POORR, OR KLOPR: RF.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 20L.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART SPEED ICON IN PLANVIEW AT JOGLO: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT TURNT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT RDNEK: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT SIPPO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 088.61 INBOUND.
CHART MANDATORY 8000 AT JOGLO.
CHART MANDATORY 7000 AT TURNT.
CHART MANDATORY 7000 AT FLMBE.
CHART MANDATORY 6000 AT RDNEK.
CHART MANDATORY 6000 AT JAQQE.
CHART MANDATORY 8000 AT SIPPO.



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 0.13 DA	927	4000	349	927	4000	349	927	4000	349	927	4000	349			
RNP 0.30 DA	1042	6000	464	1042	6000	464	1042	6000	464	1042	6000	464			



CHANGES - REASONS

1. TERMINAL ROUTES: JOGLO TO IDADE CHANGED FROM IF TO IAF AND ALTITUDE CHANGED FROM 4000 TO 6800 – NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
2. TERMINAL ROUTES: DELETED IDADE TO SUDRE – NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
3. TERMINAL ROUTES: DELETED CULAR TO SUDRE – NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
4. TERMINAL ROUTES: DELETED SUDRE TO ZINUM - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
5. TERMINAL ROUTES: DELETED HIKRY TO ZEPET - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
6. TERMINAL ROUTES: DELETED ZEPET TO ZINUM - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
7. TERMINAL ROUTES: DELETED MUDD TO MESOE - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
8. TERMINAL ROUTES: ALTITUDE FROM SIPPO TO WOKAP CHANGED FROM 4000 TO 6700 - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
9. TERMINAL ROUTES: DELETED WOKAP TO WEVUT - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
10. TERMINAL ROUTES: DELETED WEVUT TO ZUGLI - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
11. TERMINAL ROUTES: DELETED ZUGLI TO WEGMA - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
12. TERMINAL ROUTES: DELETED WEGMA TO ZINUM - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
13. TERMINAL ROUTES: ADDED TURNT TO FLMBE - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
14. TERMINAL ROUTES: ADDED FLMBE TO PICKN - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
15. TERMINAL ROUTES: ADDED PICKN TO HIKRY - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
16. TERMINAL ROUTES: ADDED RDNEK TO JAQOE - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
17. TERMINAL ROUTES: ADDED JAQOE TO PICKN - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
18. TERMINAL ROUTES: ADDED GUITR TO PICKN - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
19. TERMINAL ROUTES: ADDED HIKRY TO AKUFF - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
20. TERMINAL ROUTES: ADDED AKUFF TO OPERY - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
21. TERMINAL ROUTES: ADDED IDADE TO IICKS - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
22. TERMINAL ROUTES: ADDED IICKS TO AKUFF - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
23. TERMINAL ROUTES: ADDED WOKAP TO POORR - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
24. TERMINAL ROUTES: ADDED POORR TO KLOPR - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
25. TERMINAL ROUTES: ADDED KLOPR TO AKUFF - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
26. TERMINAL ROUTES: PFAF CHANGED FROM ZINUM TO RW20R TO OPERY TO RW20R – NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
27. TERMINAL ROUTES: MAP CHANGED FROM RW20R TO CA LEG RW20R TO 1200 MSL AND DF LEG 1200 MSL TO BEVEE – NEW MISSED APPROACH PER IFP REQUEST FORM.
28. MISSED APPROACH INSTRUCTIONS: CHANGED FROM CLIMB TO 3000 ON TRACK 200.66 TO RONLE AND HOLD TO CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 4000 DIRECT BEVEE AND HOLD - NEW MISSED APPROACH PER IFP REQUEST FORM.
29. PROFILE LINE 2: CHANGED FROM PROFILE STARTS AT ZINUM TO PROFILE STARTS AT AKUFF - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
30. PROFILE LINE 3: FAC CHANGED FROM 200.66 TO 200.67, FAF CHANGED FROM ZINUM TO OPERY - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
31. PROFILE LINE 4: CHANGED FROM ZINUM 1700 TO AKUFF 3000, OPERY 2000 - NEW FINAL DESIGN PER IFP REQUEST FORM.
32. PROFILE LINE 5: CHANGED FROM DIST TO THLD FROM OM: 3.41 TO DIST TO THLD FROM PFAF: 4.35 AND ADDED 349 HAT: 0.98 - IAW 8260.19J 8-6-7.E.(3).
33. PROFILE LINE 6: CHANGED FROM MIN GP INCPT: 1700 TO 2000 AND GP ALT AT PFAF CHANGED FROM ZINUM 1700 TO OPERY 2000 - NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
34. PROFILE LINE 7: ADDED 20:1 IS CLEAR AND TCH CHANGED FROM 58.9 TO 60.4 - NEW EVALUATION PERFORMED AND NEW PROCEDURE DESIGN PER IFP REQUEST FORM.
35. PBN REQUIREMENTS NOTE: ADDED RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM BRDYY, SYNEP, MNGRL, CHUKB, OR SHELE: RF – IAW 8260.19J 8-6-8.
36. NOTES: DELETED CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS - NO LONGER REQUIRED PER 8260.19J, PARA 8-6-10.O.
37. NOTES: REMOVED "CHART NOTE: GPS REQUIRED" - ADDED IT TO PBN REQUIREMENT NOTES.
38. NOTES: CHANGED FROM CHART NOTE: FOR INOPERATIVE MALSF, INCREASE RNP 0.18 ALL CATS VISIBILITY TO RVR 5600 AND RNP 0.30 ALL CATS VISIBILITY TO 1 ½ TO CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY – IAW 8260.19J.
39. NOTES: CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11°C (13°F) OR ABOVE 54°C (130°F) TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -10°C OR ABOVE 54°C. – NEW TEMP DATA AND F VALUES NO LONGER REQUIRED PER 8260.19J.
40. NOTES: REMOVED CHART PLANVIEW NOTE ADJACENT TO WOKAP: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO CULAR: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO MUDD: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO SIPPO: RF REQUIRED - UPDATED NOTE REQUIREMENTS AND ADDED IT TO THE PBN REQUIREMENT NOTES PER 8260.19J.
41. NOTES: DELETED CHART SPEED ICON IN PLANVIEW AT CULAR: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT MUDD: AT 250 KIAS. CHART SPEED ICON IN PLANVIEW AT MESOE: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SIPPO: MAX 210 KIAS AND ADDED CHART SPEED ICON IN PLANVIEW AT TURNT: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT RDNEK: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SIPPO: MAX 210 KIAS – NEW PROCEDURE DESIGN PER FPT REQUEST FORM.
42. NOTES: CHANGED FROM "CHART PROFILE NOTE: VGSI AND RNAV GLIDE PATH NOT COINCIDENT" TO "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19J 8-6-10.M.(1).
43. NOTES: DELETED "CHART PLANVIEW NOTE: RADAR REQUIRED" - NO LONGER REQUIRED.
44. ADDITIONAL FLIGHT DATA: DELETED "CHART MINIMUM 3000 AT HIKRY" - NO LONGER REQUIRED WITH NEW PROCEDURE DESIGN.
45. ADDITIONAL FLIGHT DATA: DELETED ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER 1: F, ROUTE TYPE QUALIFIER 2: S, #TCH 614.3 MSL (DO NOT CHART) – NOT REQUIRED.
46. ADDITIONAL FLIGHT DATA: DELETED CHART MANDATORY 6000 AT MUDD, CHART MANDATORY 5000 AT SIPPO, CHART MANDATORY 4000 AT MESOE, CHART MANDATORY 4000 AT CULAR AND ADDED CHART MANDATORY 7000 AT TURNT. CHART MANDATORY 7000 AT FLMBE. CHART MANDATORY 6000 AT RDNEK. CHART MANDATORY 6000 AT JAQOE. CHART MANDATORY 8000 AT SIPPO – MUDD, JOGLO, SIPPO, MESOE, CULAR DELETED FROM PROCEDURE AND TURNT, FLMBE, RDNEK, JAQOE AND SIPPO ADDED TO PROCEDURE PER NEW DESIGN.
47. ADDITIONAL FLIGHT DATA: CHANGED CHART MANDATORY 5000 AT JOGLO TO CHART MANDATORY 8000 AT JOGLO – ALTITUDE INCREASED PER NEW PROCEDURE.
48. ADDITIONAL FLIGHT DATA: HOLDING CHANGED FROM HOLD S, LT, 020.61 INBOUND TO HOLD W, RT, 088.61 INBOUND - NEW PROCEDURE DESIGN PER FPT REQUEST FORM.
49. ADDITIONAL FLIGHT DATA: DELETED CHART NOTE CHART 706 TOWER (47-002563) 360903N/0863953W, 632 TREE (KBNA0045) 360854N/0864035W – FAS OBSTACLES NOT REQUIRED FOR RNP PROCEDURES PER 8260.19J.

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☒

HAI

☐

NBAA

☒

OTHER: ZME, BNA APP CON, BNA ATCT, AMGR.

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

BRITNEY ARMENTROUT

OFFICE

DATE

AJV-A422

04/15/2025

APPROVED BY

RAKE MCGRAW

OFFICE

DATE

TITLE

AJV-A422

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>
BNA	RNAV (RNP) Z RWY 20R	3	NASHVILLE	TN	599	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
JOGLO

TO
IDADE

RNP
1.00

DISTANCE
3.77

PAT

MAP

HAT

HMAS

<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 (47-001682)	361320.00N/0864438.00W	1129	50	20	2C	1000				AC20 AT4651	6800
TERRAIN	361257.00N/0864506.00W	725 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
TURN

TO
FLMBE

RNP
1.00

DISTANCE
3.80

PAT

MAP

HAT

HMAS

<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 (47-000967)	363136.00N/0864114.00W	2049	500	50	5D	1000				AC50 AT3901	7000
TERRAIN	362957.00N/0864139.00W	849 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL STEPDOWN

FROM

FLMBE

TO

PICKN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	11.44				

<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 (47-000967)	363136.00N/0864114.00W	2049	500	50	5D	1000				AC50 AT1901	5000
TERRAIN	362836.00N/0863527.00W	938 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

FLMBE-PICKN

ALT

7000

KIAS

210

KTAS

239.54

HAA

6401.00

VKTW

39.03

TR

7.29

BA

8.82

DTA

0.00

COURSE CHANGE

0.00

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFLGD)/11.44 NM

SEGMENT REMARKS:

INITIAL STEPDOWN

FROM

PICKN

TO

HIKRY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	4.30				

<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 (47-002244)	362236.90N/0863510.20W	1025	50	20	2C	1000				AC20 AT1955	4000
TERRAIN	362142.00N/0863733.00W	803 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

RDNEK

TO

JAQQE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.14										
<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	362912.00N/0862251.00W	1119	215	8	4B	1000				AC8 AT3873	6000
TERRAIN	362751.00N/0862257.00W	902 (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

JAQQE

TO

PICKN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	11.43										
<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 (47-000250)	362805.15N/0862841.31W	1506	250	125	4E	1000				AC125 AT2369	5000
TERRAIN	362806.00N/0862848.00W	1007 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

JAQQE-PICKN

6000

210

235.85

5401.00

25.47

7.27

7.79

0.00

0.00

(CFLGF)/11.43 NM

SEGMENT REMARKS:



INITIAL STEPDOWN

FROM

PICKN

TO

HIKRY

RNP

1.00

DISTANCE

4.30

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (47-002244)	362236.90N/0863510.20W	1025	50	20	2C	1000				AC20 AT1955	4000
TERRAIN	362142.00N/0863733.00W	803 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

GUITR

TO

PICKN

RNP

1.00

DISTANCE

5.32

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	362842.00N/0863448.00W	1139	215	8	4B	1000				AC8 AT2853	5000
TERRAIN	362554.00N/0863621.00W	912 (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

PICKN

TO

HIKRY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.30										
<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 (47-002244)	362236.90N/0863510.20W	1025	50	20	2C	1000				AC20 AT1955	4000
TERRAIN	362142.00N/0863733.00W	803 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

SIPPO

TO

WOKAP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.90										
<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	360942.00N/0863330.00W	893	215	8	4B	1000				AC8 AT4799	6700
TERRAIN	360942.00N/0863330.00W	692 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

HIKRY

TO

AKUFF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.20										
<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 (47-000200)	361743.00N/0863932.00W	906	100	20	3C	500				AC20 AT1574	3000
TERRAIN	361851.00N/0863818.00W	659 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

AKUFF

TO

OPERY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.15										
<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>
AAO	361600.00N/0863703.00W	811	215	8	4B	500				AC8 AT681	2000
TERRAIN	361218.00N/0863739.00W	606 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

IDADE

TO

IICKS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.09										
<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 (47-001855)	361750.20N/0864511.00W	1161	250	50	4D	500				AC50 AT3789	5500
TERRAIN	361445.00N/0864509.00W	856 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

IICKS

TO

AKUFF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	7.85										
<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 (47-001855)	361750.20N/0864511.00W	1161	250	50	4D	500				AC50 AT1289	3000
TERRAIN	361757.00N/0864551.00W	889 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

IICKS-AKUFF

5500

210

234.04

4901.00

47.46

2.50

24.79

0.00

0.00

(CFLGT)/7.85 NM

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

AKUFF

TO

OPERY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.15										
<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>
AAO	361600.00N/0863703.00W	811	215	8	4B	500				AC8 AT681	2000
TERRAIN	361218.00N/0863739.00W	606 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

WOKAP

TO

POORR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.52										
<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	361257.00N/0863333.00W	912	215	8	4B	500				AC8 AT4480	5900
TERRAIN	361257.00N/0863333.00W	711 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

POORR

TO

KLOPR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.14				

<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	361412.00N/0862803.00W	889	215	8	4B	500				AC8 AT3503	4900
TERRAIN	361412.00N/0862806.00W	685 (700)								AS1500	2200

COMPUTATIONS

RF SEGMENT

POORR-KLOPR

ALT

5900

KIAS

210

KTAS

235.49

HAA

5301.00

VKTW

44.49

TR

2.61

BA

23.65

DTA

0.00

COURSE CHANGE

0.00

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFLGC)/3.14 NM

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM

KLOPR

TO

AKUFF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.21				

<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	361736.00N/0863518.00W	853	215	8	4B	500				AC8 AT1639	3000
TERRAIN	361736.00N/0863524.00W	652 (700)								AS1500	2200

COMPUTATIONS

RF SEGMENT

KLOPR-AKUFF

ALT

4900

KIAS

210

KTAS

231.89

HAA

4301.00

VKTW

26.74

TR

3.20

BA

16.96

DTA

0.00

COURSE CHANGE

0.00

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFLGB)/6.21 NM

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

AKUFF

TO

OPERY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	3.15				

<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>
AAO	361600.00N/0863703.00W	811	215	8	4B	500				AC8 AT681	2000
TERRAIN	361218.00N/0863739.00W	606 (600)								AS1000	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

OPERY

TO

RW20R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.35		DA	464	

<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 (47-002563)	360903.09N/0863952.62W	705	20	3	1A					AC3 XP334	1042

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP: TO MAINTAIN CURRENT MINS.



FINAL

FROM

OPERY

TO

RW20R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.13	4.35		DA		349						
<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 (47-024930)	360853.53N/0864035.51W	635	20	3	1A					AC3 XP289	927

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP: TO MAINTAIN CURRENT MINS.

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BEVEE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							881				
<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>
							ASC				4000
TOWER (47-000131)	360827.45N/0865156.48W	2049	20	3	1A	1000					3100
TERRAIN	360409.00N/0864706.00W	1148 (1100)								AS1500	2600

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

BEVEE

RNP

0.13-1.00

DISTANCE

PAT

MAP

HAT

HMAS

766

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
TOWER (47-000131)	360827.45N/0865156.48W	2049	20	3	1A	1000					3100
TERRAIN	360409.00N/0864706.00W	1148 (1100)								AS1500	2600

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

RW20R

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (47-002263)	360250.42N/0864948.93W	237	9.2	2049	500	50	5D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BNA APP CON, BNA TOWER

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	BNA	24	BNA	1.00	Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACK-UP ALTIMETER SETTING NOT REQUIRED DUE TO REDUNDANT SOURCES ON AIRFIELD.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW02L - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4R		PIR-G	APPROACH, ROLL OUT
RW02C - MALSR, HIRL		PIR-G	APPROACH
RW02R - ALSF-2, TDZ, C/LINE, HIRL		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW13 - REIL, HIRL		PIR-G	
RW20L - MALSR, HIRL, C/LINE		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW20C - REIL, HIRL, PAPI-4L		PIR-G	ROLL OUT
RW20R - MALSF, HIRL, C/LINE, PAPI-4R		PIR-G	APPROACH, ROLL OUT
RW31 - HIRL, REIL, PAPI-4R		PIR-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	555.6	60.4			3.00	78.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-10C	+54C	-10C	+13.81C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 962 HIGH TEMP 1270.

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - NA FOR RNP.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
100 FT TREES USED PER EASTERN FPT.

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	3.09
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	197.67
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	THLD	TO 1500FT POINT	4.66
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	197.67
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD COORDINATES (IF STR-IN)	360816.23N/0864042.83W
ARP COORDINATES	360728.11N/0864041.45W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 2C DISTANCE 1.35 NM
FAF COORDINATES	361225.05N/0863905.12W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
BRITNEY ARMENTROUT	AJV-A422	04/15/2025	AERONAUTICAL INFORMATION SPECIALIST

