

**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> MRN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> MORGANTON	<u>STATE</u> NC
<u>AIRPORT ELEVATION</u> 1270	<u>TDZE</u> 1270	<u>SUPERSEDED</u> RNAV (GPS) RWY 21	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 05/20/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 7W
				<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>
GOWBE		CIKIS		TF	FO	1.00	328.97	6.49	4400
CIKIS	IF/IAF	ZAGOK		TF	FB	1.00	210.71	6.89	3700
ZAGOK		CICAC		TF	FB	1.00	210.63	2.91	3000
CICAC	FAF	JAGUP/1.90 NM TO RW21		TF	FB	0.30	210.63	3.39	
JAGUP/1.90 NM TO RW21		RW21	MAP	TF	FO	0.30	210.63	1.90	
RW21	MAP	1520 MSL		CA			210.63		
1520 MSL		CIKIS		DF	FO	1.00			4400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 4400 DIRECT CIKIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|--|----------------------------|----------------|-----------------------|------------------------|---------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD NE CIKIS, LT, 210.71 INBOUND, 4400 IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 210.63 | FAF: CICAC | | DIST FAF TO MAP: 5.29 | DIST FAF TO THLD: 5.29 | |
| 4. MIN ALT: CIKIS 4400, ZAGOK 3700, CICAC 3000, JAGUP/1.90 NM TO RW21 1920 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 250 HAT: 0.64 | GS ANT: |
| 6. MIN GP INCPT: 3000 | GP ALT AT PFAF: CICAC 3000 | | | OM: | MM: |
| 7. GP ANGLE: 3.00 | 34:1: IS NOT CLEAR | 20:1: IS CLEAR | TCH: 45.0 | | IM: |
| 8. MSA FROM: RW21 7400 | | | | | |

QUALITY
14
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HKY ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GOWBE ON V259 SOUTHEAST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE HKY ALTIMETER SETTING AND INCREASE LPV DA TO 1562 FEET; LNAV/VNAV DA TO 1642 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 1419 TREE 354955N/0813543W.
CHART VDP AT 0.97 NM TO RW21.
WAAS CHANNEL # 40322
REFERENCE PATH ID: W21A
LTP HAE: 354.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, 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	1520	1	250	1520	1	250	1520	1	250	1520	1	250			
LNAV/VNAV DA	1600	1	330	1600	1	330	1600	1	330	1600	1	330			
LNAV MDA	1680	1	410	1680	1	410	1680	1 1/8	410	1680	1 1/8	410			
CIRCLING	1720	1	450	1760	1	490	1800	1 1/2	530	2140	2 3/4	870			



CHANGES - REASONS

1. TERMINAL ROUTES: UPDATED GOWBE TO CIKIS RNP FROM "2.00" TO "1.00" - IAW 8260.18C TABLE 1-2-1.
2. TERMINAL ROUTES: UPDATED CIKIS TO ZAGOK RNP FROM "0.50" TO "1.00" - IAW 8260.18C TABLE 1-2-1.
3. TERMINAL ROUTES: UPDATED FINAL AND MISSED COURSES FOR JABGUP TO RW21 AND RW21 TO 1520 MSL FROM "210.62" TO "210.63" - UPDATED COURSE CALCULATIONS.
4. TERMINAL ROUTES: ADDED 1520 MSL TO CIKIS RNP "1.00" - IAW 8260.18C TABLE 1-2-1.
5. PROFILE LINE 2: ADDED MAX HOLD-IN-LIEU ALTITUDE "6000" - PER 8260.19J, PARA 8-6-7B(2)(A).
6. PROFILE LINE 4: REMOVED "ASTERISK" FROM JAGUP/1.90 NM TO RW21 1920 - NO LONGER REQUIRED.
7. PROFILE LINE 5: ADDED "250 HAT: 0.64" - MOVED FROM ADDITIONAL FLIGHT DATA TO LINE 5 IAW 8260.19J 8-6-7 E.(4).
8. PROFILE LINE 7: UPDATED 34:1 FROM "IS CLEAR" TO "IS NOT CLEAR", AND ADDED 20:1 "IS CLEAR" - 34:1 OBSTACLES, IAW 8260.19J 8-6-7 G.(3).
9. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS" - IAW 8260.19J 8-6-8.
10. NOTES: UPDATED CHART NOTE FROM "BARO-VNAV NA WHEN USING RCKORY ALTIMETER SETTING" AND "VDP NA WITH HICKORY ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING HKY ALTIMETER SETTING" - IAW 8260.19J 8-6-10 E.(8) AND (9).
11. NOTES: UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 35C (95F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C" - IAW 8260.19J 8-6-10 R.
12. NOTES: ADDED CHART NOTE "RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 34:1 OBSTACLES.
13. NOTES: UPDATED CHART NOTE FROM "WHEN LOCAL ALTIMETER NOT RECEIVED USE HICKORY ALTIMETER: INCREASE LPV DA TO 1562 FEET, LNAV/VNAV DA TO 1642 FEET, AND VISIBILITY LPV ALL CATS 1/4 SM AND LNAV/VNAV ALL CATS 1/8 SM; INCREASE ALL MDA 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM" TO "WHEN LOCAL ALTIMETER NOT RECEIVED, USE HKY ALTIMETER SETTING AND INCREASE LPV DA TO 1562 FEET; LNAV/VNAV DA TO 1642 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM" - IAW 8260.19J F.(4).
14. NOTES: REMOVED "CHART NOTE: DME/DME RNP-0.3 NA." – NO LONGER APPLICABLE.
15. ADDITIONAL FLIGHT DATA: REMOVED "**LNAV ONLY" - IAW 8260.19J 8-6-8.
16. ADDITIONAL FLIGHT DATA: REMOVED LPV FAS OBSTACLE "1419 TREE 354959N/0813547W" - IAW 8260.19J 8-6-11 C.
17. ADDITIONAL FLIGHT DATA: REMOVED "ASTERISK" FROM CHART VDP AT 0.97 NM TO RW21 - NO LONGER REQUIRED.
18. MINIMUMS: UPDATED LPV VISIBILITY ALL CATS FROM "3/4" TO "1" - NO FULL LENGTH TAXIWAY OR CONTROL TOWER IAW 8260.3G TABLE 3-3-6.
19. MINIMUMS: UPDATED LNAV/VNAV VISIBILITY ALL CATS FROM "1 11/8" TO "1" - IAW 8260.3G TABLE 3-3-1.
20. CRC REMAINDER UPDATED FROM "C645AC3C" TO "E5A56CF0" - LTP UPDATED FROM "354937.7570N/0813627.7070W" TO "354937.7525N/0813627.7085W" AND FPAP UPDATED FROM "354816.0000N/0813711.5800W" TO "354815.9885N/0813711.5815W".

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZTL, AMGR

FLIGHT CHECKED BY

KEVIN RIESE

Digitally signed by

RAKE MCGRAW

Jul 29, 2025

OFFICE

AJF

DATE

07/22/2025

DEVELOPED BY

DANIEL WESTON

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OFFICE

AJV-A422

DATE

06/02/2025

APPROVED BY

RAKE MCGRAW

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RAKE MCGRAW

Jul 29, 2025

OFFICE

AJV-A422

DATE

TITLE

MANAGER



QUALITY
14
CHECKED

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>
MRN	RNAV (GPS) RWY 21	1C	MORGANTON	NC	1270	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM GOWBE TO CIKIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.49				

<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	360402.80N/0812933.60W	2855	1000	3	6A	2000				MT-455	4400
TERRAIN	360040.20N/0812728.90W	2175 (2200)								AS1500	3700

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM CIKIS (IF/IAF) TO ZAGOK

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.89				

<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	360415.90N/0812936.70W	2855	1000	3	6A	500				AT345	3700
TERRAIN	360351.00N/0813009.00W	2573 (2600)								AS1000	3600

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

ZAGOK

TO

CICAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	2.91										
<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	355826.80N/0813259.38W	2239	50	20	2C	500				AT261	3000
TERRAIN	355739.00N/0813424.00W	1769 (1800)								AS1000	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

CICAC

TO

RW21

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.29		DA		250						
<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>
7. ANT ON LOC (KMRNT0003)	354940.80N/0813626.07W	1273	50	20	2C		34:1			AC20	1520

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

CICAC

TO

RW21

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	5.29		DA				330				
<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	354959.22N/0813547.21W	1419	50	20	2C	161				AC20	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

CICAC

TO

JAGUP/1.90 NM TO RW21

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
0.30	3.39										
<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	355449.36N/0813459.07W	1559	50	20	2C	250				RA39 DG72	1920

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

JAGUP/1.90 NM TO RW21

TO

RW21

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	1.90		RW21				410				
<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	354954.74N/0813543.33W	1419	50	20	2C	250					1680

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

CIKIS

TO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u>		
<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	361404.00N/0812907.20W	4300	1000	3	6A	1000				SA-955 AS55	4400
TERRAIN	360336.60N/0813322.00W	2821 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

CIKIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30											1333
<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				4400
AAO	355521.00N/0814545.00W	2963	1000	3	6A	1000					4000
TERRAIN	355521.00N/0814545.00W	2763 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

CIKIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30											1439
<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				4400
AAO	355521.00N/0814545.00W	2963	1000	3	6A	1000					4000
TERRAIN	355521.00N/0814545.00W	2763 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW21

TO

CIKIS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											1580
<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				4400
AAO	355521.00N/0814545.00W	2963	1000	3	6A	1000					4000
TERRAIN	355521.00N/0814545.00W	2763 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

MRN

PROCEDURE NAME

RNAV (GPS) RWY 21

AMDT NO.

1C

CITY

MORGANTON

STATE

NC

AIRPORT ELEVATION

1270

FACILITY

RNAV

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	354959.22N/0813547.21W	1.31	450	1419	50	20	2C	300			1720
CATEGORY B											
TREE	354959.22N/0813547.21W	1.85	490	1419	50	20	2C	300		XP41	1760
CATEGORY C											
TREE (37-090018)	355110.54N/0813430.99W	2.91	530	1494	20	10	1B	300			1800
CATEGORY D											
AAO	355202.12N/0813251.81W	3.81	870	1840	50	20	2C	300			2140

CIRCLING REMARKS:
XP CAT B TO MAINTAIN CURRENT MINS.

MSA

CENTER

RW21

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	360600.00N/0820451.00W	312	28.2	6365	500	125	5E	1000			7400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



ZTL ARTCC

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
AWOS-3	MRN	24	MRN		Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	HKY	24	HKY	11.80	Y	42

RASS PRESSURE PATTERNS THE SAME
KMRN 1270, KHKY 1170
RA = 42.0.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW03 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW21 - REIL, MIRL (PCL), PAPI-4R (PCL)	NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	1269.7	45.0			3.50	47.9

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

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-17C	+54C	-17C	+12.49C

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 972 HIGH TEMP 1282.

FINAL TYPE	LPV, LNAV/VNAV, AND CIRCLING RWY 21
34:1	
1316 TREE (37-088745) 354949.020000000N/0813616.970000000W (11.06)	1284 TREE (37-063311) 354942.410000000N/0813624.530000000W (4.41)
1291 TREE (37-088850) 354944.510000000N/0813623.130000000W (4.33)	1306 TREE (37-088733) 354949.490000000N/0813621.620000000W (4.29)
1303 TREE (37-089307) 354948.670000000N/0813621.910000000W (3.81)	1307 TREE (37-088741) 354949.950000000N/0813621.310000000W (3.74)
1278 TREE (37-063298) 354940.940000000N/0813625.020000000W (2.89)	1282 TREE (37-063271) 354943.390000000N/0813627.360000000W (2.49)

<u>AIRPORT ID</u> MRN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 21	<u>AMDT NO.</u> 1C	<u>CITY</u> MORGANTON	<u>STATE</u> NC	<u>AIRPORT ELEVATION</u> 1270	<u>FACILITY</u> RNAV
1287 TREE (37-092380) 354944.710000000N/0813625.900000000W (2.47)						
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT USED, ATC REQUEST.
100 FT TREES USED PER FPT.
INTERMEDIATE SEGMENT UTILIZED 1000 FT AIRSPACE.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	3.41
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	203.63
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1400
DISTANCE FROM	THLD	TO 1500FT POINT	5.09
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	203.63
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1400

THRESHOLD COORDINATES (IF STR-IN)	354937.75N/0813627.71W
ARP COORDINATES	354912.80N/0813641.10W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 21 DISTANCE 0.45 NM
FAF COORDINATES	355429.10N/0813351.17W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
DANIEL WESTON	AJV-A422	06/02/2025	AERONAUTICAL INFORMATION SPECIALIST

