

**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> AZO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> KALAMAZOO	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 874	<u>TDZE</u> 874	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 07/19/2018	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WHOOF		AMPEY		TF	FO	1.00	047.59	11.66	3000
HEBEL	IAF	AMPEY	NOPT	TF	FB	1.00	187.64	4.76	3000
BOHRR	IAF	AMPEY	NOPT	TF	FB	1.00	170.05	13.08	3000
AMPEY	IF/IAF	BEDJO		TF	FB	1.00	228.02	7.00	2500
BEDJO	FAF	YUKUK/1.70 NM TO RW23		TF	FB	0.30	228.00	2.64	
YUKUK/1.70 NM TO RW23		RW23	MAP	TF	FO	0.30	228.00	1.70	
RW23	MAP	1220 MSL		CA			228.00		
1220 MSL		COLDT		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LP: RW23
LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT COLDT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD NE AMPEY, RT, 228.02 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.
- FAC: 228.00 FAF: BEDJO DIST FAF TO MAP: 4.34 DIST FAF TO THLD: 4.34
- MIN ALT: AMPEY 3000, BEDJO 2500, YUKUK/1.70 NM TO RW23 1520
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: MM: IM:
- MIN GP INCPT: GP ALT AT FAF:
- GP ANGLE: 34:1 IS NOT CLEAR 20:1 IS NOT CLEAR TCH:
- MSA FROM: RW23 3000



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: STRAIGHT-IN RWY 23 NA AT NIGHT, CIRCLING RWY 5, 9, 17, 23, 27 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BTL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LP VISIBILITY CAT C 1/8 SM, AND LNAV AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 047.77 INBOUND.
CHART FAS OBST: 1025 TANK (26-000329) 421528N/0853112W, 970 TOWER (26-001261) 421444N/0853231W.
CHART 1050 TOWER (26-128395) 421531N/0853034W.
WAAS CHANNEL # 61021
REFERENCE PATH ID: W23A
BEDJO TO RW23: 3.50/38.
LTP HAE: 226.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
LP MDA	1220	1	346	1220	1	346	1220	1	346		NA				
LNAV MDA	1280	1	406	1280	1	406	1280	1 1/8	406		NA				
CIRCLING	1340	1	466	1340	1	466	1560	2	686		NA				

CHANGES - REASONS

- DECREASED CIRCLING MDA/HAA CATS A AND B FROM 1380/506 TO 1340/466. - TO MATCH ILS OR LOC RWY 35 FLIGHT CHECKED 01/05/2023.
- INCREASED CIRCLING MDA/HAA CAT C FROM 1480/606 TO 1560/686; VISIBILITY CAT C FROM 1 3/4 TO 2. - NEW CONTROLLING OBSTACLE; TO REMOVE NOTAM FDC 5/1929.
- CHANGED TERMINAL ROUTE RNP VALUE: WHOOF - AMPEY FROM 2.00 TO 1.00. - IAW 8260.58C TABLE 1-2-1.
- ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BTL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LP VISIBILITY CAT C 1/8 SM, AND LNAV AND CIRCLING VISIBILITY CAT C 1/4 SM. - TO MATCH OTHER IAPS; PER FPT REQUEST.
- UPDATED PBN REQUIREMENTS NOTE: FROM RNP APCH TO RNP APCH - GPS. - IAW 8260.58C TABLE 1-2-1.
- COMBINED CHART NOTES: RWY 23 STRAIGHT-IN MINIMUMS NA AT NIGHT. CIRCLING RWY 5, 9, 17, 23, 27 NA AT NIGHT" TO "CHART NOTE: STRAIGHT-IN RWY 23 NA AT NIGHT, CIRCLING RWY 5, 9, 17, 23, 27 NA AT NIGHT." – IAW 8260.19J 8-6-12.O(2)H(NOTE).
- INPUT CHART FAS OBST: 970 TWR 421444N/0853231W. - LP STEPDOWN OBSTACLE.
- ADDED CHART 1050 TOWER (26-128395) 421531N/0853034W. - LNAV 7:1 OBSTACLE; APPLIED AT YUKUK.
- ADDITIONAL FLIGHT DATA: REMOVED "CHART ASR" – NO LONGER REQUIRED.
- ADDITIONAL FLIGHT DATA: REMOVED "CHART CIRCLING ICON." – MEMO REMOVAL OF CIRCLING ICONS, DATED 5/15/2025.
- MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" – IAW 8260.19J 8-6-12.B(4)(MEMO).



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

AZO APP CON, ZAU ARTCC, AZO ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by

CASIMIR L TABAKA

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by

Jul 24, 2025

CASIMIR L TABAKA

Jul 24, 2025

OFFICE

AJV-A432

DATE

06/25/2025

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Jul 24, 2025

OFFICE

AJV-A430

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

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)

0
0
KAZO
RW23
0
0
W23A
421429.6105N
0853256.7630W
+02263
421326.5280N
0853421.4970W
00038.0
F
03.50
106.75
1704
40.0
00.0

CRC REMAINDER

99452BF4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K5
+02594
+02594



**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>
AZO	RNAV (GPS) RWY 23	1A	KALAMAZOO	MI	874	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM WHOOF **TO** AMPEY

RNP 1.00 DISTANCE 11.66 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>
TWR (26-000753)	422120.00N/0852028.00W	1441	500	50	5D	1000				AT559	3000
TERRAIN	422203.00N/0852000.00W	1018 (1000)								AS1500	2500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM HEBEL **TO** AMPEY

RNP 1.00 DISTANCE 4.76 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>
TWR (26-000753)	422120.00N/0852028.00W	1441	500	50	5D	1000				AT559	3000
TERRAIN	422203.00N/0852000.00W	1018 (1000)								AS1500	2500

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
14
CHECKED

INITIAL

FROM

BOHRR

TO

AMPEY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	13.08										
<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 (26-000456)	423415.00N/0852809.00W	1956	250	50	4D	1000					3000
TERRAIN	423612.00N/0852624.00W	1100 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: LNAV

FROM

AMPEY (IF/IAF)

TO

BEDJO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	7.00										
<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>
TWR (26-000753)	422120.00N/0852028.00W	1441	500	50	5D	500					2000
TERRAIN	422203.00N/0852000.00W	1018 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LP

FROM

BEDJO

TO

YUKUK/1.70 NM TO RW23

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.64										
<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	421728.48N/0852954.36W	1119	50	20	2C	250				RA44 DG107	1520

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LP STEPDOWN

FROM

YUKUK/1.70 NM TO RW23

TO

RW23

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	1.70		RW23		346						
<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 (26-001261)	421444.00N/0853231.00W	970	20	3	1A	250					1220

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

BEDJO

TO

YUKUK/1.70 NM TO RW23

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.64										
<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	421728.48N/0852954.36W	1119	50	20	2C	250				RA44 DG107	1520

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

YUKUK/1.70 NM TO RW23

TO

RW23

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	1.70		RW23		406						
<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>
TANK (26-000329)	421527.69N/0853112.14W	1025	20	3	1A	250					1280

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

AMPEY

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
		P-5									
<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>
TWR (26-000753)	422120.00N/0852028.00W	1441	500	50	5D	1000				AT559	3000
TERRAIN	423030.00N/0851639.00W	1037 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LP

FROM

RW23

TO

COLDT

<div><div>RNP</div><div>0.30-1.00</div></div>	<div>DISTANCE</div>	<div>PAT</div>	<div>MAP</div>		<div>HAT</div>		<div>HMAS</div> <div>1120</div>				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2700
TOWER (2025-AGL-4467-OE)	421253.12N/0853635.49W	1199	250	50	4D	300				AC50	1600
TERRAIN	420709.00N/0854630.00W	952 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW23

TO

COLDT

<div><div>RNP</div><div>0.30-1.00</div></div>	<div>DISTANCE</div>	<div>PAT</div>	<div>MAP</div>		<div>HAT</div>		<div>HMAS</div> <div>1180</div>				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2700
TOWER (2025-AGL-4467-OE)	421253.12N/0853635.49W	1199	250	50	4D	300				AC50	1600
TERRAIN	420709.00N/0854630.00W	952 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

AZO

PROCEDURE NAME

RNAV (GPS) RWY 23

AMDT NO.

1A

CITY

KALAMAZOO

STATE

MI

AIRPORT ELEVATION

874

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											
TWR (26-022073)	421336.43N/0853210.58W	1.30	466	1023	20	3	1A	300			1340
CATEGORY B											
PWRLN (26-111384)	421309.94N/0853530.76W	1.84	466	1034	20	3	1A	300			1340
CATEGORY C											
TOWER (2025-AGL-4467-OE)	421253.12N/0853635.49W	2.89	686	1199	250	50	4D	300		AC50	1560

CIRCLING REMARKS:

CAT C/D TOWER (2025-AGL-4467-OE) COMPLETION DATE 09/30/2025.

MSA

CENTER	RADIUS
RW23	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (26-000456)	423415.00N/0852809.00W	013	20.1	1956	250	50	4D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

AZO APP CON, AZO TOWER, ZAU 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>
ASOS	AZO	24	AZO		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	BTL	24	BTL	14.11	Y	44

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KAZO 874, KBTL 952
RA = 43.4.

<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>	
RW09 - MIRL (PCL)	BSC-F		
RW27 - MIRL (PCL)	BSC-F		
RW05 - REIL (PCL), MIRL (PCL), PAPI-4L	NPI-F		
RW23 - REIL (PCL), MIRL (PCL), PAPI-4L	NPI-F		
RW17 - HIRL (PCL), REIL (PCL), PAPI-4L	PIR-G	ROLL OUT	
RW35 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	APPROACH	

<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>
					3.50	38.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 17	QUALITY 14 CHECKED
20:1		
871 TRAVERSE_WAY (26-068199) 421432.6100N/0853309.8300W (1.35)		

<u>AIRPORT ID</u> AZO		<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>AMDT NO.</u> 1A	<u>CITY</u> KALAMAZOO	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 874	<u>FACILITY</u> RNAV
FINAL TYPE	CIRCLING RWY 27						
20:1							
899 TREE (26-028693) 421359.8400N/0853243.1000W (12.56)				950 TREE (26-110566) 421405.8000N/0853229.3100W (11.73)			
933 TREE (26-110642) 421405.7500N/0853231.7600W (3.95)							
FINAL TYPE	CIRCLING RWY 5						
20:1							
987 TREE (26-097856) 421354.8500N/0853352.0300W (23.74)				933 TREE (26-060817) 421357.1800N/0853334.9300W (23.52)			
940 TREE (26-031375) 421355.9600N/0853336.0500W (23.17)				971 TREE (26-031942) 421356.2000N/0853348.6600W (21.53)			
977 TREE (26-097725) 421355.1500N/0853350.2800W (19.47)				926 TREE (26-096732) 421357.0400N/0853335.4000W (14.77)			
983 TREE (26-060800) 421353.5000N/0853354.3700W (8.69)				923 TREE (26-068807) 421356.1700N/0853335.8100W (7.56)			
976 TREE (26-031392) 421353.5400N/0853352.9300W (5.66)				971 TREE (26-031902) 421353.6000N/0853351.4200W (4.88)			
922 TREE (26-100684) 421356.3700N/0853337.4900W (2.82)				944 TREE (26-063569) 421352.2600N/0853340.2900W (2.65)			
952 TREE (26-111120) 421351.4400N/0853342.3400W (2.27)				922 TREE (26-060727) 421356.1000N/0853337.5300W (1.74)			
946 TREE (26-032228) 421356.9400N/0853347.7600W (1.58)				952 TREE (26-060795) 421351.4900N/0853342.8600W (1.06)			
923 TREE (26-111349) 421355.6800N/0853337.7600W (0.63)				926 TREE (26-060728) 421355.1400N/0853338.1700W (0.6)			
FINAL TYPE	CIRCLING RWY 9						
20:1							
970 TREE (26-031253) 421404.7200N/0853351.9400W (21.88)				953 TREE (26-110411) 421405.1000N/0853348.0300W (19.59)			
962 TREE (26-060678) 421405.0800N/0853351.5300W (15.42)				952 TREE (26-060726) 421404.8800N/0853349.0500W (14.75)			
965 TREE (26-098002) 421358.7300N/0853353.3200W (11.72)				903 POLE (26-022158) 421404.0300N/0853337.1600W (10.48)			
955 TREE (26-031941) 421358.2700N/0853351.0000W (10.45)				930 TREE (26-063481) 421404.8200N/0853344.7200W (9.04)			
936 TREE (26-069472) 421404.8700N/0853347.4500W (4.77)				888 TRAVERSE_WAY (26-031660) 421402.2600N/0853335.7300W (0.87)			
FINAL TYPE	LP AND LNAV						
20:1							
920 TREE (26-060711) 421436.0000N/0853241.9200W (16.78)				927 TREE (26-066299) 421437.7600N/0853239.6900W (11.55)			
970 TOWER (26-001261) 421444.0000N/0853231.0000W (9.11)				908 TREE (26-028461) 421436.1000N/0853242.2400W (5.27)			
923 TREE (26-110419) 421438.0200N/0853239.0000W (4.79)				916 TREE (26-067438) 421438.6500N/0853240.9800W (0.79)			
FINAL TYPE	LP AND LNAV						
34:1							
914 TREE (26-110878) 421439.6800N/0853242.3600W (25.26)				911 TREE (26-060716) 421439.4100N/0853242.6900W (23.34)			
910 TREE (26-028462) 421438.5800N/0853241.4500W (22.15)				932 TREE (26-070483) 421442.9300N/0853231.5700W (19.55)			
919 TREE (26-100623) 421441.1300N/0853237.2200W (19.17)				900 TREE (26-110386) 421437.2200N/0853241.2400W (14.69)			
914 TREE (26-028570) 421445.3300N/0853243.1000W (14.51)				906 TREE (26-060801) 421438.7700N/0853238.8500W (13.69)			
914 TREE (26-069538) 421440.9400N/0853235.9900W (12.65)				908 TREE (26-066277) 421440.7400N/0853239.3200W (12.27)			
896 TREE (26-069198) 421437.1500N/0853241.8500W (11.79)				893 TREE (26-110725) 421436.3300N/0853242.4600W (11.47)			

QUALITY
14
CHECKED

QUALITY
14
CHECKED

<u>AIRPORT ID</u> AZO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>AMDT NO.</u> 1A	<u>CITY</u> KALAMAZOO	<u>STATE</u> MI	<u>AIRPORT ELEVATION</u> 874	<u>FACILITY</u> RNAV
902 TREE (26-110964) 421438.7100N/0853239.1300W (10.25)			886 TREE (26-060708) 421435.8700N/0853243.2900W (6.74)			
893 TREE (26-028463) 421440.1100N/0853244.1700W (6.18)			906 TREE (26-069537) 421445.6600N/0853242.9100W (5.52)			
914 TREE (26-066587) 421442.4500N/0853233.1700W (5.06)			885 TREE (26-071110) 421437.0500N/0853244.3300W (4.88)			
914 TREE (26-111629) 421442.9500N/0853232.4100W (2.82)			929 TREE (26-064630) 421448.8600N/0853229.9600W (1.53)			
<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:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1 SURFACE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

STANDARD 100 FT VEGETATION USED.

TAA NA PER FPT REQUEST.

LPV AND LNAV/VNAV NOT DEVELOPED DUE TO GQS PENETRATIONS:

970 TOWER (26-001261) 421444.00N/0853231.00W (22.50)
916 TREE (26-067438) 421438.65N/0853240.98W (5.82)
914 TREE (26-110878) 421439.68N/0853242.36W (3.80)
911 TREE (26-060716) 421439.41N/0853242.69W (2.30)
853 LIGHTING (26-110424) 421430.30N/0853257.14W (1.97)
853 ELECTRICAL SYSTEM (26-022100) 421429.02N/0853255.22W (1.60)
910 TREE (26-028462) 421438.58N/0853241.45W (1.04)
852 ELECTRICAL SYSTEM (26-022099) 421430.77N/0853257.57W (0.60)

PER ATC/FPT: PROCEDURE DEVELOPED FOR CAT A, B, C ONLY
DUE TO RUNWAY LENGTH.

FPAP COORDINATES NOT UPDATED TO CURRENT TGS VALUE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1025 TANK (26-000329) 421527.69N/0853112.12W.
ORDER 8260.3 CHAPTER 2 APPLIED TO 1050 TOWER (26-128395) 421531.30N/0853033.90W.

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	2.34
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	225.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.14
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	225.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)421429.61N/0853256.76W

ARP COORDINATES421403.80N/0853305.60W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

FAF COORDINATESRUNWAY 35 DISTANCE 0.66 NM

FIX NAME COORDINATES421733.71N/0852849.12W

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (BARBARA GORMAN)	AJV-A432	06/25/2025	AERONAUTICAL INFORMATION SPECIALIST

