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.

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND

AIRPORT ELEVATION	THRE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1634			NONE		5E	2025

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV			ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 240/30 CW 060/30	NOPT	HUHWY	IF/IAF	3800
2. 060/30 CW 150/30	NOPT	060/10 CW 150/10		4000
3. 060/10 CW 150/10		SITBE	IAF	3800
4. 150/30 CW 240/30		BULIF	IAF	3800

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BULIF	IAF	HUHWY		TF	FB	1.00	240.01	5.00	3800
SITBE	IAF	HUHWY		TF	FB	1.00	059.86	5.00	3800
HUHWY	IF/IAF	WESDI		TF	FB	1.00	329.94	3.00	3600
WESDI	FAF	LAKOE/2.92 NM TO RW32		TF	FB	0.30	329.91	3.14	
LAKOE/2.92 NM TO RW32		RW32	MAP	TF	FO	0.30	329.91	2.92	
RW32	MAP	2300 MSL		CA			329.91		2300
2300 MSL		HUHWY		DF	FO	1.00			4000

MISSED APPROACH

MAP:
RW32

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 4000 DIRECT HUHWY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD SE HUHWY, RT, 329.93 INBOUND, 3800 FT. IN LIEU OF PT (IAF), MAX 4000.
3. **FAC:** 329.91 **FAF:** WESDI **DIST FAF TO MAP:** 6.06 **DIST FAF TO THLD:**
4. **MIN ALT:** WESDI 3600, LAKOE/2.92 NM TO RW32 2600
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
6. **MIN GP INCPT:** **GP ALT AT FAF:** **OM:** **MM:** **IM:**
7. **GP ANGLE:** **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**
8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE 7L2 ALTIMETER SETTING; WHEN NOT RECEIVED, USE MBG ALTIMETER SETTING, AND INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

CHART 7L2 AWOS
WESDI TO RW32 3.00/40
CHART FAS OBST: 1797 TREE 460106N/1003703W.

MINIMUMS:

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

ALTERNATE: NA [X]

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
CIRCLING	2280	1	646	2360	1	726		NA			NA				

CHANGES - REASONS

ORIGINAL PROCEDURE

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP ARTCC, CENTRAL FPT, AMGR

FLIGHT CHECKED BY		OFFICE	DATE

DEVELOPED BY		OFFICE	DATE
WILLIAM HANBY	*Digitally signed by* ***WILLIAM HANBY*** Dec 18, 2024	AJV-A432	12/16/2024

APPROVED BY	OFFICE	DATE	TITLE
CASIMIR L. TABAKA	AJV-A432		MANAGER

QUALITY 20 CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
240/30 CW 060/30

TO
HUHWY

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (46-000563)	454454.00N/1004830.00W	2668	250	50	4D	1000					3700
TERRAIN	453157.00N/1005539.00W	2335 (2300)								AS1500	3800

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM
060/30 CW 150/30

TO
060/10 CW 150/10

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	460439.00N/1010345.00W	2746	215	8	4B	1000					3800
TERRAIN	460436.00N/1010348.00W	2545 (2500)								AS1500	4000

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM	TO
060/10 CW 150/10	SITBE

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	455624.00N/1004636.00W	2458	215	8	4B	1000					3500
TERRAIN	455624.00N/1004636.00W	2257 (2300)								AS1500	3800

COMPUTATIONS

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

SEGMENT REMARKS:

RIGHT BASE AREA

FROM	TO
150/30 CW 240/30	BULIF

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
WINDMILL (38-037819)	462140.98N/0995710.72W	2660	250	50	4D	1000				AT140	3800
TERRAIN	461121.00N/0994936.00W	2204 (2200)								AS1500	3700

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

INITIAL

FROM	TO
BULIF	HUHWY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	5.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	455918.00N/1002545.00W	2356	215	8	4B	1000				AT444	3800
TERRAIN	455906.00N/1002651.00W	2089 (2100)								AS1500	3600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM	TO
SITBE	HUHWY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	5.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	455512.00N/1003939.00W	2363	215	8	4B	1000				AT437	3800
TERRAIN	455512.00N/1003939.00W	2162 (2200)								AS1500	3700

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

INTERMEDIATE

FROM	TO
HUHWY (IF/IAF)	WESDI

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	3.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	455803.00N/1003530.00W	2251	215	8	4B	500				AT849	3600
TERRAIN	455442.00N/1003400.00W	1932 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM	TO
WESDI	LAKOE/2.92 NM TO RW32

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	3.14				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	455942.00N/1003443.42W	2240	50	20	2C	250				RA104 XL3	2600

COMPUTATIONS

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

SEGMENT REMARKS:

AAOS PLOTTED IN FINAL SEGMENT TO GET LOWER SDF ALTITUDE, FPT REQUESTED SDF ALTITUDE AT OR AROUND 2580 FOR LOWEST POSSIBLE MDA.

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

FINAL: LNAV STEPDOWN

FROM	TO
LAKOE/2.92 NM TO RW32	RW32

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.92		RW32		

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	460106.00N/1003703.00W	1797	215	8	4B	250				RA64 SA-19 HA188	2280

COMPUTATIONS

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

SEGMENT REMARKS:

AAOS PLOTTED IN FINAL STEP-DOWN SEGMENT TO OBTAIN LOWEST POSSIBLE MDA.

HOLD-IN-LIEU OF PT

FROM	TO
HUHWY	P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS
		P-5			

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	454906.00N/1003157.00W	2448	215	8	4B	1000				AT352	3800
TERRAIN	454906.00N/1003157.00W	2247 (2200)								AS1500	3700

COMPUTATIONS

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

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW32	HUHWY

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
AAO	455915.00N/1003948.00W	2277	215	8	4B	1000					3300
TERRAIN	455915.00N/1003948.00W	2076 (2100)								AS1500	3600

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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	460257.00N/1003915.00W	1.32	646	1898	215	8	4B	300		RA64	2280
CATEGORY B											
TANK (38-041914)	460602.33N/1003810.55W	1.86	726	1990	20	3	1A	300		RA64	2360

CIRCLING REMARKS:

MSA/ESA

CENTER	RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	7L2	24	7L2	18.60	Y	64

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	MBG	24	MBG	32.66	Y	87

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
Y27 1634 7L2 1779 RA = 63.1
Y27 1634 MBG 1716 RA = 86.7
86.7 - 63.1 = 23.6 (24)

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - MIRL (PCL), PAPI-2L (PCL)	BSC-F	
RW32 - MIRL (PCL), PAPI-2L (PCL)	BSC-F	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	30.0

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

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RW14	
20:1		
1641 TERRAIN (38-041719) 460421.1700N/1003809.1600W (0.66)		1641 TERRAIN (38-041787) 460421.3200N/1003808.9500W (0.29)
FINAL TYPE	CIRCLING RW32	
20:1		
1652 FENCE (38-041866) 460339.2600N/1003747.1000W (7.87)		1647 FENCE (38-041622) 460339.4200N/1003746.6400W (2.92)
FINAL TYPE	LNAV	

20:1	
1652 FENCE (38-041866) 460339.2600N/1003747.1000W (7.87)	1647 FENCE (38-041622) 460339.4200N/1003746.6400W (2.92)
FINAL TYPE	LNAV
34:1	
1681 TREE (38-041879) 460332.0700N/1003741.0400W (17.3)	1669 TREE (38-041887) 460333.3900N/1003742.1300W (9.82)
1667 TREE (38-041690) 460333.4200N/1003743.5200W (9.12)	1664 TREE (38-041620) 460333.6900N/1003741.9400W (5.46)
1663 TREE (38-041678) 460333.9500N/1003740.9200W (4.26)	1661 TREE (38-041817) 460333.6400N/1003743.3600W (3.58)
1654 TREE (38-041650) 460336.1900N/1003743.3900W (3.48)	1663 TREE (38-041860) 460333.4500N/1003741.4000W (3.34)
1645 TERRAIN (38-041844) 460338.3900N/1003746.6100W (3.25)	1642 FENCE (38-041662) 460341.0400N/1003741.6800W (3.06)
1639 TERRAIN (38-041605) 460340.2900N/1003747.3700W (3.05)	1642 FENCE (38-041852) 460340.2600N/1003744.0600W (3.05)
1642 FENCE (38-041836) 460341.1800N/1003741.2400W (3.05)	1657 TREE (38-041906) 460336.1500N/1003738.4300W (2.01)
1651 TREE (38-041669) 460336.0200N/1003743.4100W (0.04)	
PENETRATIONS REMARKS:	
LNAV RW32 PENS LISTED FOR FUTURE USE. PER FPT, AIRPORT PLANS TO IMPROVE RWY MARKINGS FROM BASIC TO TDB AND REMOVE PENETRATIONS.	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VDP NOT ESTABLISHED - 20:1 PENETRATIONS; REMOTE PRIMARY ALTIMETER; AND CIRCLING ONLY PROCEDURE.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2251 AAO 455803.00N/1003530.00W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 2080 AAO 460029.61N/1003650.77W.

100 FT VEGETATION PER FPT.

STRAIGHT-IN ALIGNED PROCEDURE BUT CIRCLING ONLY MINIMA DUE TO BASIC RWY MARKINGS.

FINAL SEGMENT BUILT WITH TCH 40 FT PER FPT, FUTURE AIRPORT PLANS TO INSTALL VGS LIGHTS SET TO TCH 40 FT AND IMPROVED RWY MARKINGS.

PER FPT, VISIBILITY CAN BE NO LOWER THAN 1 SM.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
Y27	RNAV (GPS) - A	ORIG	FORT YATES	ND	1634	RNAV

PART D: AIRSPACE

DOCKET #24-AGL-6

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**	4.39
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	334.91
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	2100
DISTANCE FROM	THLD	**TO 1500FT POINT**	6.06
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	2.13
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	334.91
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	2100

THRESHOLD COORDINATES (IF STR-IN)	460344.25N/1003746.87W
ARP COORDINATES	460400.78N/1003758.01W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 14 DISTANCE 0.30 NM
FAF COORDINATES	455815.37N/1003405.65W
FIX NAME COORDINATES	IF/IAF HUHWY 455532.38N/1003216.32W, IAF SITBE 455325.13N/1003845.37W, IAF BULIF 455739.25N/1002546.78W

REMARKS

TAAS:
STRAIGHT-IN FROM 240/30 CW 060/30 TO HUHWY
LEFT BASE FROM 060/30 CW 150/30 TO 060/10 CW 150/10
LEFT BASE STEP-DOWN FROM 060/10 CW 150/10 TO SITBE
RIGHT BASE FROM 150/30 CW 240/30 TO BULIF
IF/IAF HUHWY: 455532.38N/1003216.32W, IAF SITBE: 455325.13N/1003845.37W, IAF BULIF: 455739.25N/1002546.78W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
WILLIAM HANBY	AJV-A432	12/16/2024	AERONAUTICAL INFORMATION SPECIALIST