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
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
941	941	RNAV (GPS) RWY 28	ORIG-C	11/04/2021	5W	1995

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

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 192/30 CW 012/30	NOPT	AWSOF	IF/IAF	3100
2. 012/30 CW 192/30		AWSOF	IF/IAF	3100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
AWSOF	IF/IAF	FAPVI		TF	FB	1.00	281.81	7.00	2600
FAPVI	FAF	HIVIR/2.90 NM TO RW28		TF	FB	0.30	281.71	2.20	
HIVIR/2.90 NM TO RW28		RW28	MAP	TF	FO	0.30	281.71	2.90	
RW28	MAP	1500 MSL		CA			281.71		1500
1500 MSL		AWSOF		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LP: RW28
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3100 DIRECT AWSOF AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD E AWSOF, RT, 281.81 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 281.71 **FAF:** FAPVI **DIST FAF TO MAP:** 5.10 **DIST FAF TO THLD:** 5.10
4. **MIN ALT:** AWSOF 3100, FAPVI 2600, HIVIR/2.90 NM TO RW28 1900
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 CLEAR **TCH:**
8. **MSA FROM:**

QUALITY 35 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BTL ALTIMETER SETTING: INCREASE ALL MDAS 40 FEET AND INCREASE LP AND LNAV CAT C VISIBILITY 1/8 SM AND CIRCLING CAT C VISIBILITY 1/4 SM.
CHART NOTE: VDP NA WITH BTL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 1070 TOWER (26-133052) 421504N/0845514W.
CHART VDP AT 0.82 NM TO RW28.
WAAS CHANNEL # 45533
REFERENCE PATH ID: W28A
FAPVI TO RW28: 3.00/40.
LTP HAE: 251.8 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	1320	1	379	1320	1	379	1320	1	379		NA				
LNAV MDA	1320	1	379	1320	1	379	1320	1	379		NA				
CIRCLING	1440	1	499	1440	1	499	1660	2	719		NA				

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAMS 6/2961, 1/5077, AND 3/5958 FOR AMDT 0C INTO FORM - IAW 8260.19J PARA 8-3-4(C)(3).
2. PROFILE LINE 2: ADDED "MAX 6000" - IAW 8260.19J, PARA 8-6-7(B)(2).
3. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - NO PENETRATIONS EXIST.
4. CHART PROFILE NOTE: UPDATED FROM "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19J PARA 8-6-10(M)(2).
5. CHART NOTE: UPDATED FROM "NIGHT LANDING: RWY 10 NA" TO "CIRCLING RWY 10 NA AT NIGHT" - IAW 8260.19J PARA 8-6-12(O)(2).
6. CHART NOTE: REMOVED "DME/DME RNP-0.3 NA" AND ADDED PBN REQUIREMENTS NOTE "RNP APCH - GPS" - IAW 8260.19J 8-6-8(D)(2).
7. CHART NOTE: UPDATED FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BATTLE CREEK ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET; INCREASE LP AND LNAV CAT C VISIBILITY 1/8 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BTL ALTIMETER SETTING: INCREASE ALL MDAS 40 FEET AND INCREASE LP AND LNAV CAT C VISIBILITY 1/8 SM AND CIRCLING CAT C VISIBILITY 1/4 SM." - IAW 8260.19J PARA 8-6-10(F)(4).
8. CHART NOTE: UPDATED FROM "VDP NA WITH BATTLE CREEK ALTIMETER SETTING" TO "VDP NA WITH BTL ALTIMETER SETTING" - IAW 8260.19J PARA 8-6-10(E)(9).
9. ADDITIONAL FLIGHT DATA: CHART FAS OBST(S) CHANGED FROM "1035 TREE 421508N/0845637W, 1065 TREE 421450N/0845647W" TO "1070 TOWER (26-133052) 421504N/0845514W" - NEW CONTROLLING OBSTACLE.
10. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 0.82 NM TO RW28" - IAW 8260.19J PARA 8-6-11(M)(2).
11. CRC REMAINDER: UPDATED FROM "0AB97EB9" TO "1F9967A2" - FPAP LAT/LONG CHANGED FROM "421512.5760N0845855.6550W" TO "421512.5680N0845855.6560W."

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, GREAT LAKES APPROACH, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
BRIAN PETER CARSON	*Digitally signed by* ***ROBERT G HAMILTON*** Feb 11, 2025		

DEVELOPED BY		OFFICE	DATE
ROBERT G HAMILTON (PHILLIP T. HILL)	*Digitally signed by* ***ROBERT G HAMILTON*** Feb 11, 2025	AJV-A433	07/08/2024

APPROVED BY		OFFICE	DATE	TITLE
ROBERT G HAMILTON	*Digitally signed by* ***ROBERT G HAMILTON*** Feb 11, 2025	AJV-A433		MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRMY
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	421502.3015N
LTP/FTP LONGITUDE	0845656.4790W
LTP/FTP ELLIPSOIDAL HEIGHT	+02518
FPAP LATITUDE	421512.5680N
FPAP LONGITUDE	0845855.6560W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1680
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	00.0
CRC REMAINDER	1F9967A2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02855
FPAP ORTHOMETRIC HEIGHT	+02855

QUALITY 35 CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI	941	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
192/30 CW 012/30

TO
AWSOF

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

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000991)	422225.60N/0840410.22W	2045	20	3	1A	1000					3100
TERRAIN	415641.70N/0842625.60W	1280 (1300)								AS1500	2800

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM
012/30 CW 192/30

TO
AWSOF

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

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000062)	422633.00N/0843421.00W	1956	50	20	2C	1000				AT144	3100
TERRAIN	415057.00N/0844333.00W	1208 (1200)								AS1500	2700

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
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI	941	RNAV

INTERMEDIATE

FROM	TO
AWSOF (IF/IAF)	FAPVI

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	7.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000594)	421610.00N/0844636.00W	1499	250	50	4D	500					2000
TERRAIN	421236.00N/0844127.00W	1080 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LP

FROM	TO
FAPVI	HIVIR/2.90 NM TO RW28

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.20				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	421419.26N/0845227.04W	1209	50	20	2C	250				RA40 DG401	1900

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
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI	941	RNAV

FINAL: LP STEPDOWN

FROM	TO
HIVIR/2.90 NM TO RW28	RW28

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.90		RW28	379	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-133052)	421503.79N/0845513.63W	1070	20	3	1A	250					1320

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM	TO
FAPVI	HIVIR/2.90 NM TO RW28

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.20				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	421419.26N/0845227.04W	1209	50	20	2C	250				RA40 DG401	1900

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM	TO
HIVIR/2.90 NM TO RW28	RW28

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.90		RW28	379	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-133052)	421503.79N/0845513.63W	1070	20	3	1A	250					1320

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	TO
AWSOF	P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS
		P-5			

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (26-000594)	421610.00N/0844636.00W	1499	250	50	4D	1000				AT601	3100
TERRAIN	420948.00N/0843603.00W	1116 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LP

FROM	TO
RW28	AWSOF

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					1220

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
TOWER (26-000594)	421610.00N/0844636.00W	1499	250	50	4D	1000					2500
TERRAIN	421236.00N/0844127.00W	1080 (1100)								AS1500	2600

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
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI	941	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW28	AWSOF

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30					1220

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
TOWER (26-000594)	421610.00N/0844636.00W	1499	250	50	4D	1000					2500
TERRAIN	421236.00N/0844127.00W	1080 (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

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (26-002806)	421557.00N/0845825.00W	1.30	499	1135	50	20	2C	300			1440
CATEGORY B											
TOWER (26-002806)	421557.00N/0845825.00W	1.84	499	1135	50	20	2C	300			1440
CATEGORY C											
TOWER (26-000073)	421704.00N/0845618.00W	2.89	719	1296	20	50	1D	300		AC50	1660

CIRCLING REMARKS:

MSA/ESA

CENTER	RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
RMY	RNAV (GPS) RWY 28	ORIG-D	MARSHALL	MI	941	RNAV

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZAU ARTCC, LANSING FSS, GREAT LAKES APP CON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
AWOS-3	RMY	24	RMY	0	Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS
ASOS	BTL	24	BTL	13.54	Y	33

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KRMY 941, KBTL 952
RA = 32.7.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
01H		
RW10 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW28 - MIRL (PCL), PAPI-4R (PCL)	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	936.6	40.0			4.00	36.5

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

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LP/LNAV
34:1	
1002 TREE (26-030725) 421503.4400N/0845627.3300W (7.63)	989 TREE (26-098500) 421502.7100N/0845631.8900W (4.4)
947 TREE (26-042580) 421502.6000N/0845649.8700W (1.86)	951 FENCE (26-026111) 421502.1500N/0845647.9400W (1.47)
992 TREE (26-030597) 421504.3800N/0845628.4400W (0.39)	
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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

APPROVAL LETTER: ON REQUEST FOR VGSI ANGLE GREATER THAN VDA.

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		**TO 1000FT POINT**	3.10
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.20
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	276.71
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	1000
DISTANCE FROM		**TO 1500FT POINT**	4.90
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	1.95
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	276.71
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	1000

THRESHOLD COORDINATES (IF STR-IN)	421502.30N/0845656.48W
ARP COORDINATES	421504.30N/0845719.60W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 28 DISTANCE 0.29 NM
FAF COORDINATES	421426.77N/0845007.46W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ROBERT G HAMILTON (PHILLIP T. HILL)	AJV-A433	07/08/2024	AERONAUTICAL INFORMATION SPECIALIST

QUALITY 35 CHECKED