

**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><b>AIRPORT</b></u> SAWYER INTL	<u><b>AIRPORT ID</b></u> KSAW	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 19	<u><b>ORIGINAL/AMENDMENT</b></u> 2	<u><b>CITY</b></u> MARQUETTE	<u><b>STATE</b></u> MI
<u><b>AIRPORT ELEVATION</b></u> 1204	<u><b>TDZE</b></u> 1204	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 19	<u><b>ORIGINAL/AMENDMENT</b></u> 1	<u><b>DATED</b></u> 06/03/2010	<u><b>MAG VAR</b></u> 4W
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u>	<u><b>REQUIRED EFFECTIVE DATE</b></u> 9/13/2018	<u><b>CANCEL/SUSPEND</b></u>	<u><b>EPOCH YEAR</b></u> 2000

**TAA**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>ALTITUDE</b></u>
1. 103/30 CW 283/30	NOPT	ZUCTI	IF/IAF	3500
2. 283/30 CW 013/30		OYENI	IAF	3500
3. 013/30 CW 103/30		JIBQE	IAF	3700

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
OYENI	IAF	ZUCTI	NOPT	TF	FB	1.00	283.10	6.58	3500
JIBQE	IAF	ZUCTI	NOPT	TF	FB	1.00	102.90	6.58	3500
ZUCTI	IF/IAF	YAFDY		TF	FB	1.00	192.99	6.52	2900
YAFDY	FAF	VEKUY/2.20 NM TO RW19		TF	FB	0.30	192.97	2.94	
VEKUY/2.20 NM TO RW19		RW19	MAP	TF	FO	0.30	192.97	2.20	
RW19	MAP	1404 MSL		CA			192.97		
1404 MSL		EVYIP		DF	FO	1.00			3500

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW19

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3500 DIRECT EVYIP AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)

2. HOLD N ZUCTI, RT, 192.99 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 192.97      FAF: YAFDY      DIST FAF TO MAP: 5.14      DIST FAF TO THLD: 5.14

4. MIN ALT: ZUCTI 3500, YAFDY 2900, VEKUY/2.20 NM TO RW19 1960\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      200 HAT: 0.46      GS ANT:      MM:      IM:

6. MIN GP INCPT: 2900      GP ALT AT FAF : YAFDY 2900      OM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 60.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

LTP HAE: 332.7 M  
CHART CIRCLING ICON.  
CHART VDP AT 1.57 NM TO RW19\*  
\*LNAV ONLY  
CHART APT ELEV: 1204  
WAAS CHANNEL #86616  
REFERENCE PATH ID: W19A  
HOLD S, RT, 012.89 INBOUND

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
LPV DA	1404	3/4	200	1404	3/4	200	1404	3/4	200	1404	3/4	200			
LNAV/VNAV DA	1521	7/8	317	1521	7/8	317	1521	7/8	317	1521	7/8	317			
LNAV MDA	1620	1	416	1620	1	416	1620	1 1/8	416	1620	1 1/8	416			
CIRCLING	1680	1	476	1680	1	476	1820	1 3/4	616	1820	2	616			



**CHANGES - REASONS**

1. SHORTENED RUNWAY 1/19 FROM 12366 FEET TO 9071 FEET - PENDING AMDT 2 DATA, FPT/REQUEST.
2. CHANGED DISTANCE FROM OYENI TO ZUCTI FROM 5 NM TO 6.58 NM, MOVED JIBQE TO COORESpond - ESTABLISHED RNP CRITERIA PER 8260.54A 2.8.
3. CHANGED VDP FROM 1.38 NM TO RWY 19 TO 1.57 NM TO RWY 19 - PENDING VGSI DATA PER FPT/REQUEST.
4. CHANGED DISTANCE FROM FAF TO THLD FROM 5.02 NM TO 5.56 NM - SHORTENED RUNWAY PER FPT/REQUEST.
5. REMOVED ALL REFERENCE OF BACK-UP ALTIMETER SETTING MINIMUMS - LOCAL WEATHER ON WMSCR AND DEEMED RELIABLE.
6. UPDATED CIRCLING MDAS: CAT A/B FROM 1720/499 HAA TO 1680/476 HAA, CAT C FROM 1720/499 HAA TO 1820/616 HAA, AND CAT D FROM 1780/559 HAA TO 1820/616 HAA, AND ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA.
7. ADDED VDP NA NOTE.
8. CHANGED LPV DA FROM 1421 TO 1404, LNAV/VNAV DA FROM 1665/444 HAT TO 1521/317 HAT, AND LNAV MDA ALL CATS FROM TO 1720/499 HAT TO 1700/496 HAT - NEW CONTROLLING OBSTACLE AND NEW VISIBILITY TABLE APPLIED.
9. REMOVED DME/DME RNP-0.3 NA AND REPLACED IT WITH PBN REQUIREMENTS NOTE: RNP APCH - 8260.19H PARA 8-6-8A.
10. ADDED 20:1 IS CLEAR - 8260.19H, PARA 8-6-17 G(3).
11. UPDATED FAS DATA IN ADDITIONAL FLIGHT DATA - NEW INFO CAUSED FROM RWY SHIFT.
12. UPDATED CHART NOTE: BARO-VNAV NA WHEN USING FORD ALTIMETER SETTING TO VDP AND BARO-VNAV NA WHEN USING FORD ALTIMETER SETTING - 8260.19H PARA 8-6-9 E(9).
13. UPDATED CRC REMAINDER - NEW CRC FROM CHANGE IN FPAP LAT/LONG.
14. ADDED LNAV STEP-DOWN FIX (VEKUY) TO LOWER MDA FROM 1720/499 HAT TO 1680/479 HAT - PER FPT REQUEST.

07/23/18: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 05/07/18.

1. CHANGED CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) TO CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
2. CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 46C (114F) TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C.

8/7/18: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 07/24/18.

3. 1. ADDED CHART CIRCLING ICON.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, ATA

FLIGHT CHECKED BY

PENDING  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 24, 2018

OFFICE

DATE

DEVELOPED BY

LONNIE EVERHART (TODD BOWLING)  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 24, 2018

OFFICE

DATE

AJV-5400 05/07/2018

APPROVED BY

LONNIE EVERHART  
*Digitally signed by*  
**ROBERT G HAMILTON**  
Jul 24, 2018

OFFICE

DATE

TITLE

MANAGER



**FAS DATA BLOCK INFORMATION**

<b><u>DATA FIELD</u></b>	<b><u>DATA</u></b>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSAW
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	462141.1915N
LTP/FTP LONGITUDE	0872336.8700W
LTP/FTP ELLIPSOIDAL HEIGHT	+03327
FPAP LATITUDE	462012.7420N
FPAP LONGITUDE	0872357.0035W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	3D0C8371

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03671
FPAP ORTHOMETRIC HEIGHT	+03671



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

<u>AIRPORT</u>	<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>
SAWYER INTL	KSAW	RNAV (GPS) RWY 19	2	MARQUETTE	MI	1204	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM  
103/30 CW 283/30

TO  
ZUCTI

RNP

DISTANCE

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>
1.TOWER (26-002829)	463614.00N/0873715.00W	2279	250	50	4D	1000					3300
2.TERRAIN	463903.00N/0880045.00W	1976 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

LEFT BASE AREA

FROM  
283/30 CW 013/30

TO  
OYENI

RNP

DISTANCE

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>
3.TOWER (26-000434)	460805.00N/0865656.00W	2072	250	50	4D	1000				AT428	3500
4.TERRAIN	462851.00N/0872648.00W	1470 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:



RIGHT BASE AREA

FROM

013/30 CW 103/30

TO

JIBQE

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.TOWER (26-000555)	462110.00N/0875115.00W	2601	250	50	4D	1000					3700	
6.TERRAIN	464212.00N/0881421.00W	2008 (2000)								AS1500	3500	

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

SEGMENT  
REMARKS:

INITIAL

FROM

OYENI

TO

ZUCTI

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	6.58											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.STACK (26-000525)	463444.00N/0872342.00W	1006	500	125	5E	1000				AT1494	3500	
8.TERRAIN	462903.00N/0871751.00W	650 (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

JIBQE

TO

ZUCTI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	6.58										
<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>
9.AAO	463300.00N/0873200.00W	1759	250	125	4E	1000				AT741	3500
10.TERRAIN	463221.00N/0873042.00W	1349 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

INTERMEDIATE

FROM

ZUCTI (IF/IAF)

TO

YAFDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	6.52										
<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>
11.TOWER (26-000364)	462950.00N/0872458.00W	1549	500	125	5E	500				AT726 AC125	2900
12.TERRAIN	463006.00N/0872512.00W	1270 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:





FINAL: LPV

FROM

YAFDY

TO

RW19

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.14		DA	200								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1404

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

FINAL: LNAV/VNAV

FROM

YAFDY

TO

RW19

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.14		DA	317								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
13.TREE (26-044352)	462231.23N/0872352.79W		1360	20	3	1A	161					1521

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

ZUCTI

TO

P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
		P-4									
<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>
15.AAO	462936.00N/0872603.00W	1578	250	125	4E	1000				AT922	3500
16.TERRAIN	462936.00N/0872603.00W	1378 (1400)								AS1500	2900

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

EVYIP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1238				
<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				3500
17.TREE (26-044352)	462231.23N/0872352.79W	1360	20	3	1A	1000					2400
18.TERRAIN	462030.00N/0872324.00W	1298 (1300)								AS1500	2800

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

EVYIP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1504				
<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				3500
17.TREE (26-044352)	462231.23N/0872352.79W	1360	20	3	1A	1000					2400
18.TERRAIN	462030.00N/0872324.00W	1298 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

MISSED APPROACH : LNAV

FROM

RW19

TO

EVYIP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1600				
<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				3500
17.TREE (26-044352)	462231.23N/0872352.79W	1360	20	3	1A	1000					2400
18.TERRAIN	462030.00N/0872324.00W	1298 (1300)								AS1500	2800

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											
19.TREE (26-043851)	462221.27N/0872206.47W	1.31	476	1363	20	10	1B	300			1680
CATEGORY B											
19.TREE (26-043851)	462221.27N/0872206.47W	1.85	476	1363	20	10	1B	300			1680
CATEGORY C											
20.TOWER (26-002103)	461853.33N/0872024.28W	2.91	616	1466	250	50	4D	300		AC50	1820
CATEGORY D											
21.AAO	462509.00N/0872551.00W	3.80	616	1503	50	20	2C	300			1820

CIRCLING REMARKS:

CENTER

RADIUS

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

100 FT VEGETATION APPLIED PER FPT

LPV SLOPE: 34:1  
LNAV/VNAV INNER SLOPE: 23.4:1  
OUTER: 34:1

INTERMEDIATE CONTROLLING OBSTACLES THE SAME FOR ALL FINAL TYPES.

OBSTACLE # 14 AND 20 FROM PUBLISHED PROCEDURE.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, GRB FSS



<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	KSAW	24	KSAW	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KIMT	24	KIMT	43.93	Y	104

**WX REMARKS:**  
RASS PRESSURE PATTERNS SAME:  
KSAW 1204, KIMT 1182  
RA = 103.8

<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>
RW01 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)		PIR-G	
RW19 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)		PIR-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	1204.4	60.0			3.00	53.2

**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>
-17C	+54C	-17C	+12.62C

**CRITICAL TEMPERATURE REMARKS:**  
AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD 12C ISA DEVIATION.  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 970 HIGH TEMP 1132.

**"VISUAL PORTION OF FINAL" PENETRATIONS**

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**



<u>AIRPORT</u>	<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>
SAWYER INTL	KSAW	RNAV (GPS) RWY 19	2	MARQUETTE	MI	1204	RNAV

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
BACKUP NOTE FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORD ALTIMETER SETTING AND INCREASE LPV DA TO 1508 AND VISIBILITY 1/8 SM, LNAV/VNAV DA TO 1769 AND VISIBILITY 1/4 SM,  
INCREASE ALL MDAS 120 FEET AND LNAV CAT C/D VISIBILITY 3/8 SM. INCREASE CIRCLING CATS C/D VISIBILITY 1/4 SM.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING FORD ALTIMETER SETTING.  
SEE ATTACHED AIRSPACE LETTER.  
ORDER 8260.3, VOLUME 1, 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	3.89
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	188.97
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1441
DISTANCE FROM	THLD	TO 1500FT POINT	5.14
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	188.97
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1441

THRESHOLD  
COORDINATES  
(IF STR-IN) 462141.19N/0872336.87W

ARP COORDINATES 462057.00N/0872346.90W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP RUNWAY 1 DISTANCE 1.02 NM

FAF  
COORDINATES 462645.47N/0872227.47W

FIX NAME  
COORDINATES IAF OYENI: 463209.52N/0871134.25W, IAF JIBQE: 463413.00N/0873024.29W, IF/IAF ZUCTI: 463311.57N/0872059.11W

REMARKS





<u>AIRPORT</u>	<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>
SAWYER INTL	KSAW	RNAV (GPS) RWY 19	2	MARQUETTE	MI	1204	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LONNIE EVERHART (TODD BOWLING)	AJV-5400	05/07/2018	AERONAUTICAL INFORMATION SPECIALIST

