

**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</u> LAWRENCE J TIMMERMAN	<u>AIRPORT ID</u> KMWC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22R	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> MILWAUKEE	<u>STATE</u> WI
<u>AIRPORT ELEVATION</u> 745	<u>TDZE</u> 739	<u>SUPERSEDED</u> RNAV (GPS) RWY 22R	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 2W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<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
HAWKN		OLIGY		TF	FO	1.00	096.91	17.70	2700
WOKNO		FITSA		TF	FB	1.00	203.53	7.20	2700
PROOT		WEGOM		TF	FB	1.00	356.40	6.44	2700
FITSA	IAF	OLIGY	NOPT	TF	FB	1.00	193.68	5.98	2700
WEGOM	IAF	OLIGY	NOPT	TF	FB	1.00	288.29	7.00	2700
OLIGY	IF/IAF	ZOBIR		TF	FB	1.00	218.29	6.47	2500
ZOBIR	FAF	WIKPI/1.70 NM TO RW22R		TF	FB	0.30	218.23	3.72	
WIKPI/1.70 NM TO RW22R		RW22R	MAP	TF	FO	0.30	218.23	1.70	
RW22R	MAP	1145 MSL		CA			218.23		
1145 MSL		HAWKN		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LP: RW22R  
 LNAV: RW22R

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING RIGHT TURN TO 3000 DIRECT HAWKN AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- 2. HOLD NE OLIGY, RT, 218.29 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 218.23      **FAF:** ZOBIR                                      **DIST FAF TO MAP:** 5.42                      **DIST FAF TO THLD:** 5.42
- 4. **MIN ALT:** OLIGY 2700, ZOBIR 2500, WIKPI/1.70 NM TO RW22R 1300
- 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:** RW22R 2900

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: CIRCLING NA TO RWYS 4R, 15R, 22L AND 33L.  
 CHART NOTE: RWY 22R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HAWKN ON V217 NORTHBOUND.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE, GENERAL MITCHELL INTL ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET AND LP AND LNAV VISIBILITY CATS C AND D 1/8 SM AND CIRCLING VISIBILITY CAT C 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

ZOBIR TO RW22R: 3.00/36.  
 WAAS CHANNEL #69524  
 REFERENCE PATH ID: W22A  
 FAS OBST: 879 TREE 430755N/0880047W, 879 TREE 430755N/0880047W.  
 HOLD N, RT, 184.55 INBOUND  
 LTP HAE: 190.1 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		
	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	1160	1	421	1160	1	421	1160	1 1/4	421	1160	1 1/4	421			
LNAV MDA	1160	1	421	1160	1	421	1160	1 1/4	421	1160	1 1/4	421			
CIRCLING	1220	1	475	1340	1	595	1340	1 1/2	595	1340	2	595			



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM AMDTS ORIG-A, ORIG-B, ORIG-C, AND ORIG-D - IAW 8260.19H PARA 8-3-4C(2).
2. ADDED LEG TYPE AND RNP VALUES TO TERMINAL ROUTES - IAW 8260.19H 8-6-4.A.(6).
3. ADDED "20:1 IS CLEAR" TO LINE 7 - IAW 8260.19H 8-6-7.G.(3).
4. CHANGED BACK-UP ALTIMETER NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE GENERAL MITCHELL INTL ALTIMETER SETTING: INCREASE ALL MDA 40 FT, INCREASE LP AND LNAV VISIBILITY CATS C AND D 1/8 MILE; INCREASE CIRCLING VISIBILITY CAT C 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE, GENERAL MITCHELL INTL ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET, AND LP AND LNAV VISIBILITY CATS C AND D 1/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM" - IAW VIS CHECK CALCULATOR.
5. DELETED PLANVIEW NOTES: "PROCEDURE NA FOR ARRIVALS AT WOKNO ON V7 NORTHBOUND" AND "PROCEDURE NA FOR ARRIVALS AT PROOT ON V2" - FAH VOR/DME DECOM.
6. DELETED "CHART" FROM "CHART FAS OBST: 879 TREE 430755N/0880047W" - IAW 8260.19H 8-6-10.C.NOTE.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZAU ARTCC, MKE APP, KMWC ATCT, AMGR

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**OFFICE**

**DATE**

**DEVELOPED BY**

JACOB MAXFIELD

*Digitally signed by*

**JACOB MAXFIELD**

Jul 17, 2019

*Digitally signed by*

**DONALD H LANIER**

Aug 05, 2019

**OFFICE**

AJV-A431

**DATE**

05/24/2019

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**DONALD H LANIER**

Aug 05, 2019

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWC
RUNWAY	RW22R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	430651.0870N
LTP/FTP LONGITUDE	0880151.7480W
LTP/FTP ELLIPSOIDAL HEIGHT	+01901
FPAP LATITUDE	430539.1500N
FPAP LONGITUDE	0880303.5400W
THRESHOLD CROSSING HEIGHT (TCH)	00036.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1776
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	45201CBB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02250
FPAP ORTHOMETRIC HEIGHT	+02250

