

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE		ALTITUDE									
CMX VOR/DME		ZORIV (FO)		069.45 / 11.49		3700		LP: RW25 LNAV: RW25							
ZORIV (IF/IAF)		HAMIP (FB)		249.07 / 6.00		2800		CLIMB TO 3700 DIRECT FAXET AND HOLD.							
HAMIP (FAF)		RW25 (MAP) (FO)		248.97 / 5.21											
RW25 (MAP)		1440 MSL						ADDITIONAL FLIGHT DATA: HOLD W, RT, 068.88 INBOUND. FAS OBST: 1179 TREE 471040N/0882749W FAS OBST: 1239 TREE 471113N/0882709W CHART VDP AT 1.20 MILES TO RW25* *LNAV ONLY. WAAS CHANNEL #: 86634 REFERENCE PATH ID: W25A HAMIP TO RW25: 3.00/45 CHART CIRCLING ICON LTP HAE: 293.2 M							
1440 MSL		FAXET (FO)				3700									
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. HOLD E ZORIV, RT, 249.07 INBOUND, 3700 FT. IN LIEU OF PT (IAF) 3. FAC: 248.97 FAF: HAMIP DIST FAF TO MAP: 5.28 THLD: 5.28 4. MIN. ALT: ZORIV 3700, ZORIV 3700, HAMIP 2800 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: GS ALT AT: OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR 34:1 IS NOT CLEAR 8. MSA FROM: RW25 3300										MAG VAR: 2W EPOCH YEAR: 1985					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @			
CATEGORY ==>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	1440	1	366	1440	1	366	1440	1	366	1440	1	366			
LNAV MDA	1500	1	426	1500	1	426	1500	1 1/4	426	1500	1 1/4	426			
CIRCLING	1620	1	525	1660	1	565	1700	1 3/4	605	1900	2 1/2	805			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: VDP NA WITH MARQUETTE ALTIMETER SETTING. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CMX VOR/DME ON V133-341 NORTHWEST BOUND. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARQUETTE ALTIMETER SETTING AND (SEE FORM 8260-10) <div style="float: right; text-align: right;"> @ CAT D 900-2 1/2 @ NA WHEN LOCAL WEATHER NOT AVAILABLE. </div>															
CITY AND STATE		ELEVATION: 1095 THRE: 1074		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
HANCOCK, MI		AIRPORT NAME:		HOUGHTON COUNTY MEMORIAL		RNAV (GPS) RWY 25, AMDT 1				AMDT: ORIG					
						19 SEPTEMBER 2013				DATED 01/23/2003					

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NOTES, (CONT.):

INCREASE ALL MDA 180 FEET AND INCREASE ALL CAT C/D VISIBILITIES 5/8 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

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FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KCMX
RUNWAY RW25
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR 0
REFERENCE PATH DATA SELECTOR W25A
REFERENCE PATH IDENTIFIER (APPROACH ID) 471011.5615N
LTP/FTP LATITUDE 0882846.3820W
LTP/FTP LONGITUDE +02932
LTP/FTP ELLIPSOIDAL HEIGHT 470936.5700N
FPAP LATITUDE 0883046.4800W
FPAP LONGITUDE 00045.0
THRESHOLD CROSSING HEIGHT (TCH) F
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00
GLIDEPATH ANGLE (GPA) 106.75
COURSE WIDTH AT THRESHOLD 1168
LENGTH OFFSET 40.0
HORIZONTAL ALERT LIMIT (HAL) 0.0
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

D1F9E011

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5
LTP ORTHOMETRIC HEIGHT +03275
FPAP ORTHOMETRIC HEIGHT +03275

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KCMKK5FR25	ACMX	010CMX	K5D	OV	IF					18000		A	JS
SUSAP KCMKK5FR25	ACMX	020ZORIVK5EA0EY	A	020TF			06950115	+	03700			A	JS
SUSAP KCMKK5FR25	ACMX	030ZORIVK5EA0EE	AR	HF			24910040	+	03700			A	JS
SUSAP KCMKK5FR25	R	010ZORIVK5EA0E	I	IF				+	03700	18000		A	JS
SUSAP KCMKK5FR25	R	020HAMIPK5EA1E	F	051TF			24910060	+	02800		RW25	K5PGA	JS
SUSAP KCMKK5FR25	R	020HAMIPK5EA2WALP			N	ALNAV							JS
SUSAP KCMKK5FR25	R	030RW25	K5PG0GY	M	031TF		24900052		01119	-300		A	JS
SUSAP KCMKK5FR25	R	040		0	M	CA	2490	+	01440			A	JS
SUSAP KCMKK5FR25	R	050FAXETK5EA0EY		DF				+	03700			A	JS
SUSAP KCMKK5FR25	R	060FAXETK5EA0EE	R	HM			06870040	+	03700			A	JS

[illegible][illegible][illegible]

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SUSAP KCMXK5SRW25 K5PG

0 18018003325

M

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CMX	CMX	010		IF		FB					
		ZORIV	020	IAF	TF		FO	2.0	069.5 (067.5T)	011.5	AA 03700	
	CMX	ZORIV	030	IAF	HF	R	FO		249.1 (247.1T)	004.0	AA 03700	
		ZORIV	010	FACF	IF		FB				AA 03700	
		HAMIP	020	FAF	TF		FB	0.5	249.1 (247.1T)	006.0	AA 02800	
		RW25	030	MAP	TF		FO	0.3	249.0 (247.0T)	005.2	AT 01119	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		249.0 (247.0T)		AA 01440	
	FAXET	050		DF		FO				AA 03700	
	FAXET	060		HM	R	FO		068.7 (066.7T)	004.0	AA 03700	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CMX	N471012.93	W0882907.42	N4710.216	W08829.124
	FAXET	N470516.88	W0884532.94	N4705.281	W08845.549
	HAMIP	N471215.61	W0882139.29	N4712.260	W08821.655
	ZORIV	N471436.09	W0881333.03	N4714.602	W08813.551
	RW25	N471011.56	W0882846.38	N4710.193	W08828.773

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW25	01074	45

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