

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					
VAQOL (IF/IAF)		WUVRU (FB)		239.68 / 6.93		2500		LPV: DA LNAV/VNAV: DA LNAV: RW24			
WUVRU (FAF)		ISPIW/2.50 NM TO RW24 (FB)		239.59 / 2.63				CLIMB TO 3000 DIRECT YACNU AND HOLD.			
ISPIW/2.50 NM TO RW24		RW24 (MAP) (FO)		239.56 / 2.50							
RW24 (MAP)		1076 MSL		239.56							
1076 MSL		YACNU (FO)				3000		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 059.37 INBOUND. CHART FAS OBST: 989 TREE 421349N/0834259W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 61120 REFERENCE PATH ID: W24A LTP HAE: 217.6 M			

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)							
2. HOLD NE VAQOL, RT, 239.68 INBOUND, 3000 FT. IN LIEU OF PT (IAF)							
3. FAC: <u>239.59</u> FAF: <u>WUVRU</u> DIST FAF TO MAP: <u>5.13</u> THLD: <u>5.13</u>							
4. MIN. ALT: <u>WUVRU 2500, ISPIW/2.50 NM TO RW24 1660*</u>							
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>							
6. MIN GS INCPT: <u>2500</u> GS ALT AT: <u>WUVRU 2500</u> OM: <u> </u> MM: <u> </u> IM: <u> </u>							
7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR							
8. MSA FROM: <u> </u>							

MAG VAR: 5W EPOCH YEAR: 1980

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
LPV DA	1076	1	250	1076	1	250	1076	1	250	1076	1	250			
LNAV/VNAV DA	1150	1	324	1150	1	324	1150	1	324	1150	1	324			
LNAV MDA	1300	1	474	1300	1	474	1300	1 1/4	474	1300	1 1/4	474			
CIRCLING	1500	1	661	1500	1	661	1500	1 3/4	661	1500	2	661			

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
 *LNAV ONLY
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE ANN ARBOR, MI		ELEVATION: 839 THRE: 826 AIRPORT NAME: ANN ARBOR MUNI		FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 2 5 May 2011	SUP: AMDT: 1 DATED 11/23/2006
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV, LNAV CATS A/B.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLOW RUN ALTIMETER SETTING AND INCREASE ALL DA/MDA 40 FEET, INCREASE LNAV CATS C/D VISIBILITY 1/8 MILE, AND INCREASE CIRCLING CATS C/D VISIBILITY 1/4 MILE.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 38C (100F).

CHART NOTE: BARO-VNAV NA WHEN USING WILLOW RUN ALTIMETER SETTING.

CHART NOTE: FOR INOPERATIVE ODALS INCREASE LNAV CATS C/D VISIBILITY TO 1 3/8.

CHART NOTE: FOR INOPERATIVE ODALS WHEN USING WILLOW RUN ALTIMETER SETTING INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 1 1/8 AND LNAV CATS C/D VISIBILITY TO 1 3/8.

TAA

	FROM	TO	ALT
1.	150/30 CW 330/30 (NOPT)	VAQOL (IF/IAF) (FB)	3000
2.	330/30 CW 150/30	VAQOL (IF/IAF) (FO)	3100

QUALITY
CHECKED

CITY AND STATE
ANN ARBOR, MI

ELEVATION: 839 THRE: 826
AIRPORT NAME:
ANN ARBOR MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 24, AMDT 2
5 May 2011

SUP:
AMDT: 1
DATED: 11/23/2006

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KARB
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	421332.9680N
LTP/FTP LONGITUDE	0834422.4465W
LTP/FTP ELLIPSOIDAL HEIGHT	+02176
FPAP LATITUDE	421241.2400N
FPAP LONGITUDE	0834600.1000W
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)	50.0

CRC REMAINDER

F15FFE25

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02518
FPAP ORTHOMETRIC HEIGHT	+02518

QUALITY
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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KARBK5FR24	AVAQOL	010VAQOLK5EA0EE	AR	HF		23970050	+	03000	18000		A	JS
SUSAP	KARBK5FR24	R	010VAQOLK5EA0E	I	IF			+	03000	18000		A	JS
SUSAP	KARBK5FR24	R	020WUVRUK5EA1E	F	051TF		23970069	+	02500			A	JS
SUSAP	KARBK5FR24	R	020WUVRUK5EA2WALPV			ALNAV/VNAV						JS	
SUSAP	KARBK5FR24	R	021ISPIWK5EA0E	S	031TF		23960026	V	0166001662		-300	A	JS
SUSAP	KARBK5FR24	R	030RW24	K5PG0GY	M	031TF	23960025		00866		-300	A	JS
SUSAP	KARBK5FR24	R	040		M	010CA	2396	+	01076			A	JS
SUSAP	KARBK5FR24	R	050YACNUK5EA0EY		010DF			+	03000			A	JS
SUSAP	KARBK5FR24	R	060YACNUK5EA0EE		R020HM		05940050	+	03000			A	JS

[illegible][illegible]

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