

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	LPV: DA LNAV/VNAV: DA LNAV: RW13 CLIMB TO 2600 DIRECT VUNDY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 306.20 INBOUND. CHART FAS OBST: 1052 TREE 420701N/0925457W CHART: 1083 ELEVATOR 420824N/0925730W DISTANCE TO THLD FROM 250 HATH: 0.65 NM. CHART VDP AT 0.95 MILES TO RW13* *LNAV ONLY. WAAS CHANNEL # 50236 REFERENCE PATH ID: W13A CHART CIRCLING ICON. LTP HAE: 265.3 M											
BRIDY (IF/IAF)	ATAXE (FB)	125.93 / 5.96	2600												
ATAXE (FAF)	IKUDY/1.90 NM TO RW13 (FB)	126.00 / 3.08													
IKUDY/1.90 NM TO RW13	RW13 (MAP) (FO)	126.00 / 1.90													
RW13 (MAP)	1224 MSL	126.00													
1224 MSL	VUNDY (FO)		2600												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NW BRIDY, RT, 125.93 INBOUND, 2700 FT. IN LIEU OF PT (IAF) 3. FAC: <u>126.00</u> FAF: <u>ATAXE</u> DIST FAF TO MAP: <u>4.97</u> THLD: <u>4.97</u> 4. MIN. ALT: BRIDY 2700, ATAXE 2600, IKUDY/1.90 NM TO RW13 1620* 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>2600</u> GS ALT AT: <u>ATAXE 2600</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>41.8</u> 34:1 IS CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 1E EPOCH YEAR: 2010											
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	1224	1	250	1224	1	250	1224	1	250	1224	1	250			
LNAV/VNAV DA	1224	1	250	1224	1	250	1224	1	250	1224	1	250			
LNAV MDA	1320	1	346	1320	1	346	1320	1	346	1320	1	346			
CIRCLING	1400	1	425	1440	1	465	1460	1 1/2	485	1840	2 3/4	865			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -26C (-14F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY (SEE FORM 8260-10)															
CITY AND STATE MARSHALLTOWN, IA		ELEVATION: 975 THRE: 974 AIRPORT NAME: MARSHALLTOWN MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, AMDT 1 13 NOVEMBER 2014				SUP: AMDT: ORIG DATED 09/23/2010					

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NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING GRINNELL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRINNELL ALTIMETER SETTING AND INCREASE

ALL DA 64 FT AND ALL MDA 80 FT; INCREASE LNAV CATS C/D AND CIRCLING CAT D VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	036/30 CW 216/30 (NOPT)	036/10 CW 216/10	2800
	036/10 CW 216/10	BRIDY (IF/IAF) (FB)	2700
2.	216/30 CW 036/30	BRIDY (IF/IAF) (FO)	2700

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMIW
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	420701.2415N
LTP/FTP LONGITUDE	0925526.4835W
LTP/FTP ELLIPSOIDAL HEIGHT	+02653
FPAP LATITUDE	420607.5125N
FPAP LONGITUDE	0925350.9690W
THRESHOLD CROSSING HEIGHT (TCH)	00041.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 23763953

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02970
FPAP ORTHOMETRIC HEIGHT	+02970

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KMIWK3FR13	ABRIDY	010BRIDYK3EA0EE	AR	HF			12590040	+	02700	18000		A	JS
SUSAP KMIWK3FR13	R	010BRIDYK3EA0E	I	IF				+	02700	18000		A	JS
SUSAP KMIWK3FR13	R	020ATAXEK3EA1E	F	051TF			12590060	+	02600			A	JS
SUSAP KMIWK3FR13	R	020ATAXEK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KMIWK3FR13	R	021IKUDYK3EA0E	S	031TF			12600031	V	0162001621		-300	A	JS
SUSAP KMIWK3FR13	R	030RW13 K3PG0GY	M	031TF			12600019		01016		-300	A	JS
SUSAP KMIWK3FR13	R	040	C	M	CA		1260	+	01224			A	JS
SUSAP KMIWK3FR13	R	050VUNDYK3EA0EY		DF				+	02600			A	JS
SUSAP KMIWK3FR13	R	060VUNDYK3EA0EE	R	HM			30620040	+	02600			A	JS

[illegible][illegible]

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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
	BRIDY	BRIDY	010	IAF	HF	R	FO		125.9(126.9T)	004.0	AA 02700	
		BRIDY	010	FACF	IF		FB				AA 02700	
		ATAXE	020	FAF	TF		FB	0.5	125.9(126.9T)	006.0	AA 02600	
		IKUDY	021	SDF	TF		FB	0.3	126.0(127.0T)	003.1	AA 01620	GS 01621
		RW13	030	MAP	TF		FO	0.3	126.0(127.0T)	001.9	AT 01016	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		126.0(127.0T)		AA 01224	
	VUNDY	050		DF		FO				AA 02600	
	VUNDY	060		HM	R	FO		306.2(307.2T)	004.0	AA 02600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATAXE	N421001.03	W0930046.71	N4210.017	W09300.779
	BRIDY	N421336.15	W0930711.11	N4213.603	W09307.185
	IKUDY	N420809.82	W0925728.52	N4208.164	W09257.475
	VUNDY	N415955.48	W0924251.92	N4159.925	W09242.865
	RW13	N420701.24	W0925526.48	N4207.021	W09255.441

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00974	42

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