

NGS SURVEY CONTROL POINTS
DESIGNATION: MARSH POINT
NAD 83 (1996) - 42°06'39.16705"N/092°54'50.62707"W

THE STATION IS A PUNCH MARK ON TOP OF A STAINLESS STEEL ROD DRIVEN INTO THE GROUND AND ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP.

DESIGNATION: MARSHPOINT AZ MK
NAD 83 (1996) - 42°06'30.40868"N/092°54'34.48036"W

THE STATION IS A PUNCH MARK ON TOP OF A STAINLESS STEEL ROD DRIVING INTO THE GROUND AND ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP.

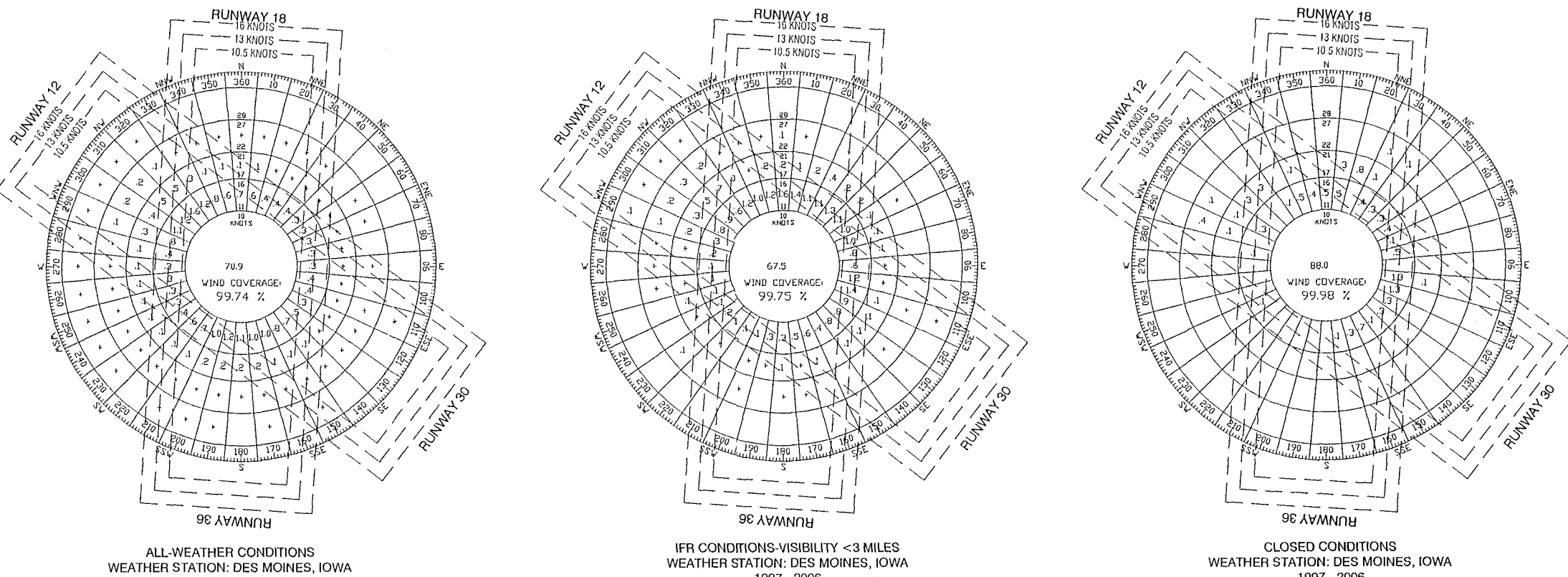
THE STATION IS A PUNCH MARK ON TOP OF A STAINLESS STEEL ROD DRIVING INTO THE GROUND AND ENCASED IN A 5-INCH PVC PIPE WITH A LOGO CAP.

The approval indicated by my signature is given subject to the condition that the items identified in our approval letter dated November 29, 2010 may not be undertaken without prior written environmental approval by the Federal Aviation Administration. This approval action does not imply any commitment for Federal funding, or approval of future structures requiring notice under FAR Part 77.

Airport Planning Engineer
FAA Central Region

11/29/11
Date

ANNUAL CHANGE - 0°07'W
MAGNETIC VARIANCE - N1°4'E (2010)
MARSHALL COUNTY, IOWA
IOWA NORTH ZONE (1401)
HORIZONTAL DATUM: NAD83 (1996)
VERTICAL DATUM: NAVD (1988)



BUILDING TABLE					
EXISTING			PROPOSED		
NO.	FACILITY NAME	TOP ELEVATION	NO.	FACILITY NAME	TOP ELEVATION
1	TERMINAL BUILDING	987.10	12	CONVENTIONAL HANGAR	1007.0
2	FBO HANGAR	999.10			
3	CONVENTIONAL HANGAR	997.80			
4	CONVENTIONAL HANGAR	1000.30			
5	CONVENTIONAL HANGAR	996.30			
6	CONVENTIONAL HANGAR	1001.40			
7	10 STALL TEE HANGAR	988.60			
8	10 STALL TEE HANGAR	988.60			
9	6 STALL TEE HANGAR	991.10			
10	10 STALL TEE HANGAR	991.00			
11	ELECTRIC VAULT	981.40			

RUNWAY DATA TABLE				
RUNWAY DATA	RUNWAY 12 / 30	RUNWAY 12 / 30	RUNWAY 18 / 36	RUNWAY 18 / 36
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE (APC)	C-II	C-II	A-(SMALL)	A-(SMALL)
RUNWAY LENGTH	5009'	5500'	2806'	2750'
RUNWAY WIDTH	100'	100'	50'	60'
EFFECTIVE GRADIENT (%)	0.10%	0.47%	0.60%	0.60%
MAXIMUM GRADIENT CHANGE	2.3	5.1	6.2	6.2
RUNWAY LIGHTING	MIRL	MIRL	MIRL	MIRL
RUNWAY MARKING	NP	NP	B	B
PAVEMENT MATERIAL	ACC	ACC	ACC	ACC
PAVEMENT DESIGN STRENGTH				
SINGLE WHEEL	35,000 LBS	35,000 LBS	15,000 LBS	15,000 LBS
DUAL WHEEL	42,000 LBS	42,000 LBS		
RUNWAY SAFETY AREA (RSA)				
LENGTH BEYOND RUNWAY	1000'	1000'	240'	240'
WIDTH	400'	400'	120'	120'
RUNWAY OBJECT FREE AREA (ROFA)		35'		
LENGTH BEYOND RUNWAY	1000'	1000'	240'	240'
WIDTH	800'	800'	250'	250'
OBSTACLE FREE ZONE (OFZ)	5400' X 400'	5900' X 400'	3200' X 250'	3200' X 250'
TAXIWAY WIDTH	30'	35'	-----	25'
TAXIWAY LIGHTING	MITL	MITL	-----	MITL
	12 / 30	12 / 30	18 / 38	18 / 36
APPROACH SURFACE SLOPE	34.1 / 34.1	34.1 / 34.1	20.1 / 20.1	20.1 / 20.1
ELECTRONIC AIDS	GPS_VOR / VOR	GPS_VOR / GPS_VOR	NONE	NONE
VISUAL APPROACH AIDS	VASI-4, REIL / VASI-4, REIL	PAPI-2, REIL / PAPI-2, REIL	NONE/NONE	NONE/NONE
APPROACH VISIBILITY MINIMUMS	1 MILE / 1 MILE	>3/4 MILE / >3/4 MILE	VISUAL / VISUAL	VISUAL / VISUAL
FAA PART 77 CATEGORY	C	D	A (V)	A (V)
AERONAUTICAL SURVEY TYPE REQUIRED		WITH VERTICAL GUIDANCE		WITH VERTICAL GUIDANCE
TDZ ELEVATION (MSL)	974.1 / 974.1	974.1 / 974.1	974.1 / 974.1	974.1 / 974.1
RUNWAY END COORDINATES (NAD 83)				
LATITUDE	42°07'01.247"N / 42°06'39.438"N	42°07'07.762"N / 42°06'35.012"N	42°06'58.707"N / 42°06'31.039"N	42°06'58.707"N / 42°06'31.522"N
LONGITUDE	92°55'28.478"W / 92°54'38.485"W	92°55'38.064"W / 92°54'39.837"W	92°55'10.113"W / 92°56'12.432"W	92°55'10.113"W / 92°56'12.391"W
RUNWAY END ELEVATIONS (MSL)	974.1 / 971.3	969.0 / 971.9	970.7 / 967.9	2750'
TAKEOFF RUN AVAILABLE (TORA)	5006'	5500'	2806'	2750'
TAKEOFF DISTANCE AVAILABLE (TODA)	5006'	5500'	2806'	2750'
ACCELERATE STOP DISTANCE AVAILABLE	5006'	5500'	2806'	2750'
LANDING DISTANCE AVAILABLE (LDA)	5006'	5500'	2806'	2750'

NOTES:
THERE ARE NO OFZ OBJECT PENETRATIONS.
THERE ARE NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS.
THERE ARE NO MODIFICATIONS TO AIRPORT DESIGN STANDARDS
AIRSPACE CASE NO. 2010-ACE-867-NRA
RUNWAY 18/36 TO BE WIDENED ON BOTH SIDES.

APPROVED:


CITY OF MARSHALL TOWN, IOWA



NO.	REVISION	BY	DATE



Clapsaddle-Garber Associates, Inc
16 East Main Street
Marshalltown, Iowa 50158
Ph 641 752-6701
www.cgaconsultants.com

DESIGNED: _____ DATE: _____
DRAWN: _____ DATE: _____
CHECKED: _____ DATE: _____
APPROVED: _____ DATE: _____

MARSHALLTOWN MUNICIPAL AIRPORT
MARSHALLTOWN, IOWA

AIRPORT LAYOUT DRAWING

PROJECT NO.	4299.03
SHEET NO.	2A of 12