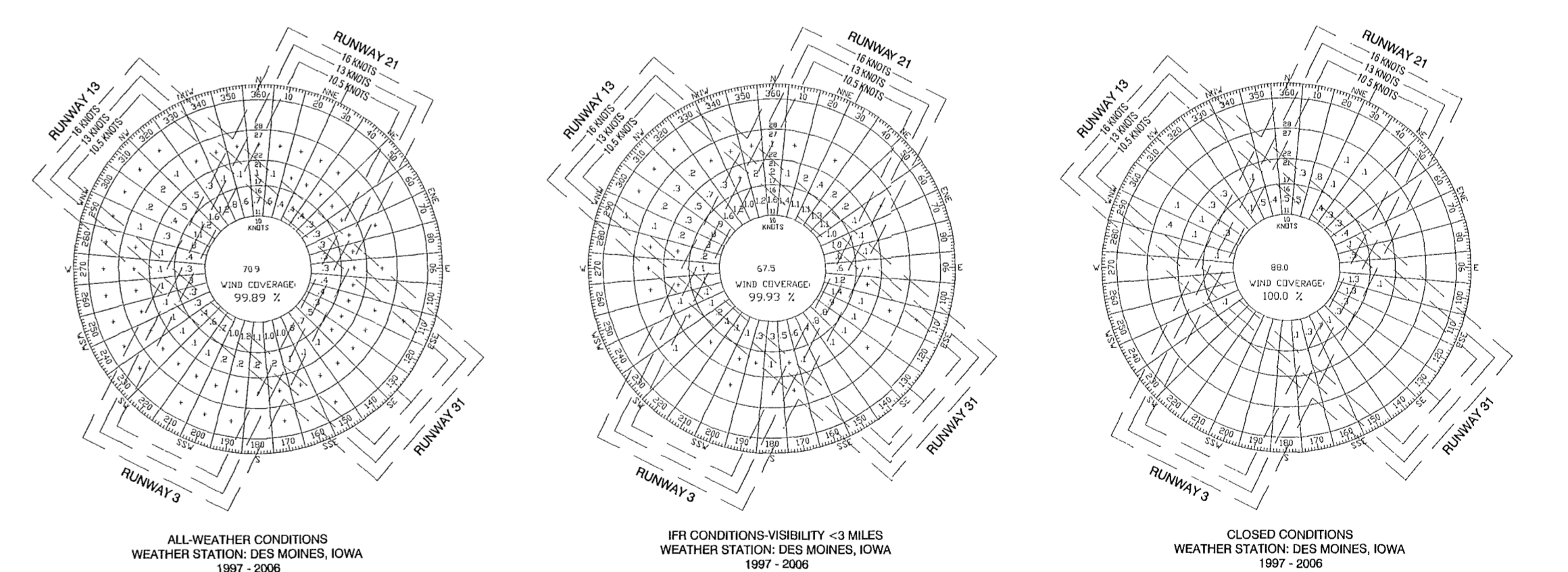


RUNWAY DATA	RUNWAY DATA TABLE		
	RUNWAY 13 / 31	RUNWAY 13 / 31	RUNWAY 3 / 21
	EXISTING	ULTIMATE	ULTIMATE
AIRPORT REFERENCE CODE (APC)	D-II	D-II	A-I (SMALL)
RUNWAY LENGTH	5200'	5000'	3300'
RUNWAY WIDTH	75'	75'	120'
EFFECTIVE GRADIENT (%)	0.36%	0.42%	0.12%
MAXIMUM GRADIENT CHANGE	1P	20.9	2.0
RUNWAY LIGHTING	MIRL	MIRL	NONE
RUNWAY MARKING	NPI	NPI	NONE
PAVEMENT MATERIAL	PCC	PCC	TURF
PAVEMENT DESIGN STRENGTH	30,000 LBS (SWL)	30,000 LBS (SWL)	NA
RUNWAY SAFETY AREA (RSA)			
LENGTH BEYOND RUNWAY	300'	300'	0'
WIDTH	150'	150'	120'
RUNWAY OBJECT FREE AREA (ROFA)			
LENGTH BEYOND RUNWAY	300'	300'	0'
WIDTH	500'	500'	120'
OBSTACLE FREE ZONE (OFZ)	5,600 x 400'	5,400 x 400'	3,300 x 250'
TAXIWAY WIDTH	35'	35'	---
TAXIWAY LIGHTING	MITL	MITL	NONE
APPROACH SURFACE SLOPE	13 / 31	13 / 31	3 / 21
ELECTRONIC AIDS	GPS / GPS	GPS / GPS	NONE
VISUAL APPROACH AIDS	PAPI/REIL	PAPI/REIL	NONE
APPROACH VISIBILITY MINIMUMS	1 MILE / 1 MILE	1 MILE / 1 MILE	1 MILE / 1 MILE
FAR PART 77 CATEGORY	C / C	C / C	A / A
AERONAUTICAL SURVEY TYPE REQUIRED	---	WITH VERTICAL GUIDANCE	NONE
TDZ ELEVATION (MSL)	1004.6 / 1008.4	1004.6 / 1008.4	1003.0 / 1003.0
RUNWAY END COORDINATES (NAD 83)			
LATITUDE	41°42'52.487"N / 41°42'18.702"N	41°42'53.785"N / 41°42'21.956"N	41°42'21.607"N / 41°42'50.776"N
LONGITUDE	92°44'35.389"W / 92°43'43.674"W	92°44'37.380"W / 92°43'47.651"W	92°44'19.583"W / 92°44'00.148"W
RUNWAY END ELEVATIONS (MSL)	988.8 / 1007.8	987.1 / 1008.0	1003.0 / 1001.0
TAKEOFF RUN AVAILABLE (TORA)	5200 / 5200	5000 / 5000	3300 / 3300
TAKEOFF DISTANCE AVAILABLE (TODA)	5200 / 5200	5000 / 5000	3300 / 3300
ACCELERATE STOP DISTANCE AVAILABLE	5000 / 5000	5000 / 5000	3300 / 3300
LANDING DISTANCE AVAILABLE (LDA)	4800 / 4800	5000 / 5000	3300 / 3300

AIRPORT DATA	EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)	1008.4'	1008.4'
AIRPORT REFERENCE POINT (NAD 83)		
LATITUDE	LAT=41°42'35.625"N	LAT=41°42'37.022"N
LONGITUDE	LONG=92°44'09.532"W	LONG=92°44'11.462"W
AIRPORT ELECTRONIC AIDS	VOR, NDB*, GPS, BEACON	VOR, GPS, BEACON
MEAN MAX TEMPERATURE OF THE HOTTEST MONTH	84.1°F	84.1°F
MAGNETIC VARIATION	0°49'E	1°53'W
DATE OF MAGNETIC VARIATION	2010	2035
NPIAS SERVICE LEVEL	GENERAL AVIATION	GENERAL AVIATION
STATE SERVICE LEVEL	GENERAL SERVICE	GENERAL SERVICE
AIRPORT REFERENCE CODE	B-II	B-II
DESIGN AIRCRAFT CATEGORY	CESSNA 550 : 75% OF FLEET	CESSNA 550 : 75% OF FLEET

NOTES:  
 THERE ARE NO OFZ OBJECT PENETRATIONS.  
 THERE ARE THRESHOLD SITING SURFACE OBJECT PENETRATIONS.  
 (SEE SHEETS 4A AND 5A)  
 THERE ARE NO EXISTING GLIDESLOPE QUALIFICATION SURFACE OBJECT PENETRATIONS.  
 (SEE SHEETS 4A AND 5A)  
 THERE ARE NO MODIFICATIONS TO AIRPORT DESIGN STANDARDS  
 AIRSPACE CASE NO. 2013-ACE-594-NRA

EXISTING	ITEM	PROPOSED
---	RUNWAY CENTERLINE	---
---	RUNWAY SAFETY AREA (RSA)	---
---	RUNWAY OBJECT FREE AREA (ROFA)	---
---	RUNWAY OBJECT FREE ZONE (ROFZ)	---
---	RUNWAY PROTECTION ZONE (RPZ)	---
---	TAXIWAY OBJECT FREE AREA (TOFA)	---
---	TAXIWAY SAFETY AREA	---
---	BUILDING RESTRICTION LINE	---
---	AIRPORT PAVEMENT	---
---	AIRPORT REFERENCE POINT	---
---	AIRPORT BUILDINGS	---
---	OTHER BUILDINGS	NOT SHOWN
---	AIRPORT PROPERTY LINE	---
---	OTHER PROPERTY LINES	NOT SHOWN
---	RAILROAD	---
---	FENCE	---
---	ROADS	---
---	TREELINE	NOT SHOWN
---	WETLANDS	NOT SHOWN
---	GROUND ELEVATION CONTOURS	NOT SHOWN
---	PROPOSED LAND ACQUISITION	NOT SHOWN
---	EASEMENT ACQUISITION	NOT SHOWN
---	THRESHOLD LIGHTS	---
---	RUNWAY END IDENTIFICATION LIGHTS	---
---	PRECISION APPROACH PATH INDICATOR	---
---	VISUAL APPROACH SLOPE INDICATOR	---
---	MEDIUM INTENSITY APPROACH LIGHT SYSTEM	---
---	POWER LINE	NOT SHOWN
---	TELEPHONE LINE	NOT SHOWN
---	TILE LINE & INTAKE	NOT SHOWN



RUNWAY	ALL WEATHER						IFR CONDITIONS			CLOSED CONDITIONS		
	10.5 KNOTS	13 KNOTS	16 KNOTS	10.5 KNOTS	13 KNOTS	16 KNOTS	10.5 KNOTS	13 KNOTS	16 KNOTS	10.5 KNOTS	13 KNOTS	16 KNOTS
13/31	89.67%	94.55%	98.43%	87.73%	93.47%	98.14%	96.00%	97.53%	99.70%			
3/21	85.54%	91.39%	96.59%	84.11%	90.54%	96.33%	93.67%	96.14%	98.45%			
Combined	98.56%	99.64%	99.89%	98.35%	99.68%	99.93%	99.66%	100.0%	100.0%			

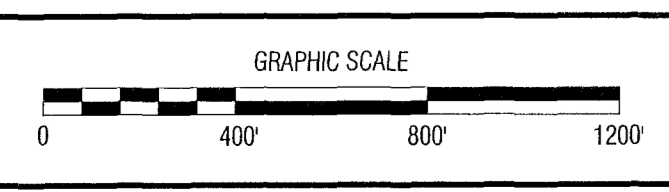
8.0% OF ALL-WEATHER READINGS WERE IFR CONDITIONS

**DISCLAIMER STATEMENT**  
 "The preparation of this document may have been supported, in part, through the Airport Improvement Program financial assistance from the Federal Aviation Administration Project Number 2-19-0039-09-2010 as provided under Title 49 U.S.C., Section 47104. The contents do not necessarily reflect the official views or policy of the FAA. Acceptance of this report by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein nor does it indicate that the proposed development is environmentally acceptable or would have justification in accordance with appropriate public laws."

**NGS SURVEY CONTROL POINT**  
 DESIGNATION: GGI A  
 NAD 83 (2007) - 41°42'35.52412"N/092°44'03.24767"W  
 THIS IS A PRIMARY AIRPORT CONTROL STATION. THE STATION IS FLUSH WITH THE GROUND SURFACE AND ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

**CONDITIONAL APPROVAL**  
 The approval indicated by my signature is given subject to the condition that the items identified in our approval letter dated 6/10/13 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  
 Date: 6/10/13

APPROVED:  
 Gordon R. Corfield  
 CITY OF GRINNELL, IOWA  
 Date: 5/22/13



NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

**CGA**  
 Clappell-Garber Associates, Inc.  
 16 East Main Street  
 Marshalltown, Iowa 50158  
 Ph 641-782-6701  
 www.cgar.com

DESIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**GRINNELL REGIONAL AIRPORT**  
 GRINNELL, IOWA

**AIRPORT LAYOUT PLAN**

PROJECT NO. 4356.00  
 SHEET NO. 2

J:\4356\Draws\CURRENT\DWGS 6-15-11\Sheets 2-10-11.dwg -SHT. 02 - 05-22-13 - 10:22am - wld78