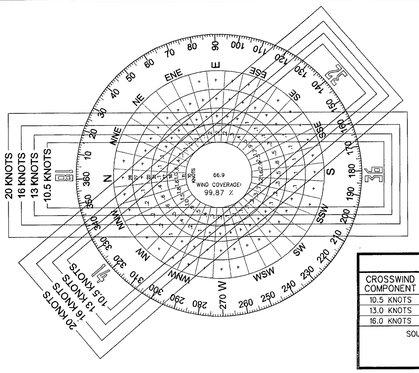
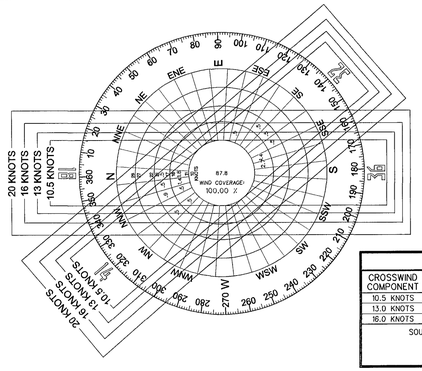




WIND DATA

CROSSWIND COMPONENT	RWY 14/32	RWY 18/36	COMBINED
10.5 KNOTS	93.67%	93.05%	98.55%
13.0 KNOTS	97.18%	96.43%	99.45%
16.0 KNOTS	99.22%	98.85%	99.87%

SOURCE: EPPLEY AIRFIELD
OMAHA, NEBRASKA
ALL WEATHER
PERIOD: 1999-2008

WIND DATA

CROSSWIND COMPONENT	RWY 14/32	RWY 18/36	COMBINED
10.5 KNOTS	99.41%	98.05%	100.00%
13.0 KNOTS	99.90%	99.00%	100.00%
16.0 KNOTS	100.00%	99.90%	100.00%

SOURCE: EPPLEY AIRFIELD
OMAHA, NEBRASKA
200' - 1/2 MILE
PERIOD: 1999-2008

EXISTING BUILDING IDENTIFICATION

I.D.	DESCRIPTION	I.D.	DESCRIPTION
A	FBO HANGAR	F34	65'x60' CONV. HANGAR
B	CAF HANGAR	F35	65'x60' CONV. HANGAR
C	10-UNIT TEE HANGAR	G	TERMINAL BLDG (80'x100')
D	8-UNIT TEE HANGAR	I	80'x100' CONV. HANGAR
E	TEE HANGAR	R	IOWA WESTERN AVIATION MAINTENANCE
F	14-UNIT TEE HANGAR		TRAINING CENTER (40,000 SF)
F32	ULT. 65'x60' CONV. HANGAR		
F33	ULT. 65'x60' CONV. HANGAR		

ULTIMATE BUILDING IDENTIFICATION

I.D.	DESCRIPTION	I.D.	DESCRIPTION
S	100'X100' CONV. HANGAR	AB	10-UNIT TEE HANGAR
T	60' x 60' CONV. HANGAR	AC	80' x 80' CONV. HANGAR
U	60' x 60' CONV. HANGAR	AD	80' x 80' CONV. HANGAR
V	60' x 60' CONV. HANGAR	AE	80' x 80' CONV. HANGAR
W	10-UNIT TEE HANGAR	AF	80' x 80' CONV. HANGAR
X	10-UNIT TEE HANGAR	AG	80' x 80' CONV. HANGAR
Y	10-UNIT TEE HANGAR	AH	100' x 100' CONV. HANGAR
Z	10-UNIT TEE HANGAR	AI	60' x 40' S.R.E. BUILDING
AA	10-UNIT TEE HANGAR		

AIRPORT DATA - NAVD 88

ITEM	EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)	1244.9'	1244.9'
AIRPORT REFERENCE POINT (ARP)	41° 15' 36" N 95° 45' 31" W	41° 15' 36" N 95° 45' 31" W
MEAN MAX. TEMPERATURE	88	88
AIRPORT NAVAIDS	VOR, GPS, ILS	VOR, GPS, ILS
ROTATING BEACON	YES	YES
SEGMENTED CIRCLE	NO	NO
LIGHTED WIND INDICATOR	YES	YES
AIRPORT REFERENCE CODE	C-II	C-II

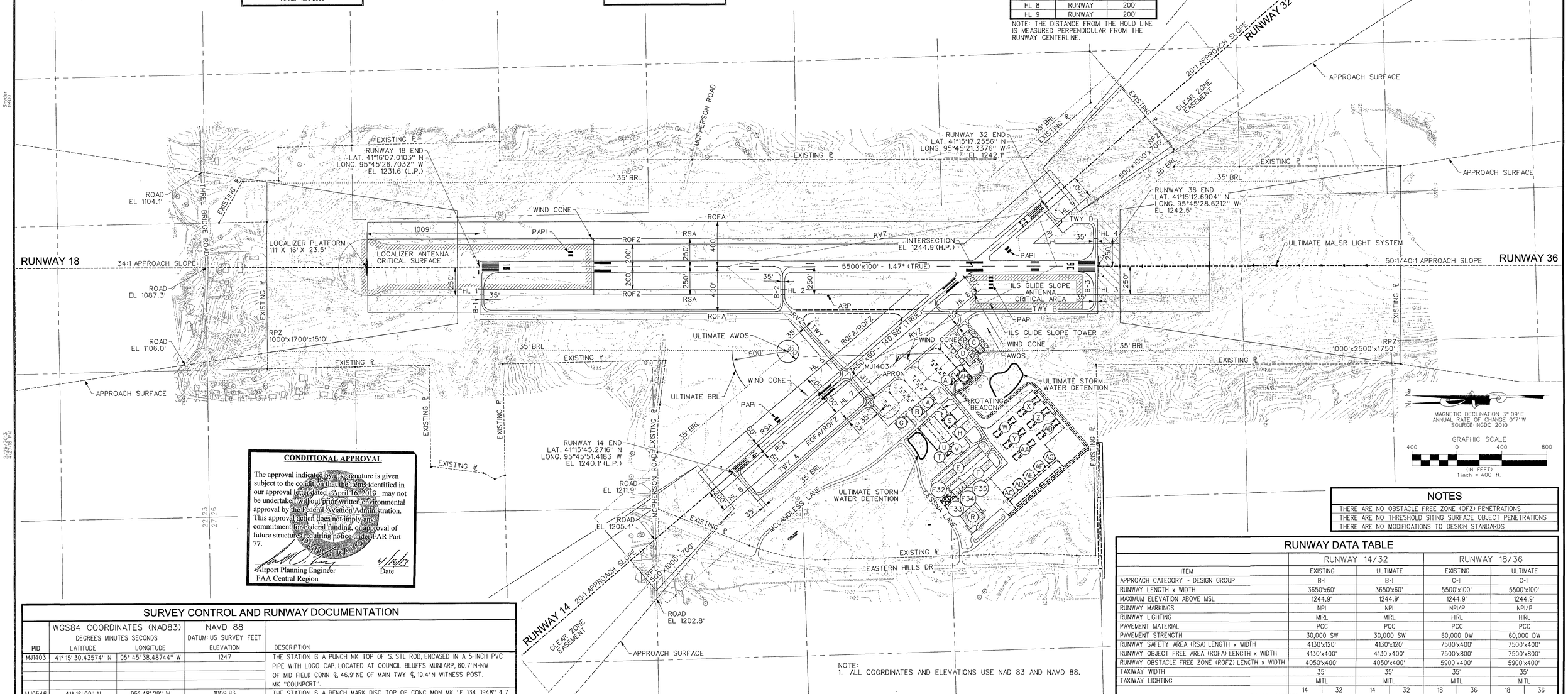
HOLDING POSITION TABLE

HOLDING POSITION	HOLD TYPE	DISTANCE
HL 1	RUNWAY	250'
HL 2	RUNWAY	250'
HL 3	RUNWAY	250'
HL 4	RUNWAY	250'
HL 5	RUNWAY	200'
HL 6	RUNWAY	200'
HL 7	RUNWAY	200'
HL 8	RUNWAY	200'
HL 9	RUNWAY	200'

NOTE: THE DISTANCE FROM THE HOLD LINE IS MEASURED PERPENDICULAR FROM THE RUNWAY CENTERLINE.

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
AIRPORT PROPERTY LINE		
AIRPORT EASEMENT LINE		
BUILDING RESTRICTION LINE		
RUNWAY VISIBILITY ZONE / LINE OF SIGHT		
RUNWAY PROTECTION ZONE		
EASEMENT		
RUNWAY SAFETY AREA AND OBJECT FREE AREA		
BUILDING - STRUCTURES		
PRECISION APPROACH PATH INDICATOR (PAPI)		
RUNWAY END IDENTIFIER LIGHTS (REIL)		
THRESHOLD LIGHTS		
FENCE		
PAVEMENT REMOVAL		
TIEDOWN		
RAIL SFL		
STEADY BURNING LIGHT BAR		



CONDITIONAL APPROVAL

The approval indicated by my signature is given subject to the condition that the items identified in our approval letter dated April 16, 2013 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

4/16/13
Date

NOTES

THERE ARE NO OBSTACLE FREE ZONE (OFZ) PENETRATIONS
THERE ARE NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS
THERE ARE NO MODIFICATIONS TO DESIGN STANDARDS

SURVEY CONTROL AND RUNWAY DOCUMENTATION

PID	WGS84 COORDINATES (NAD83) DEGREES MINUTES SECONDS LATITUDE	LONGITUDE	NAVD 88 DATUM: US SURVEY FEET ELEVATION	DESCRIPTION
MJ1403	41° 15' 30.43574" N	95° 45' 38.48744" W	1247	THE STATION IS A PUNCH MK TOP OF S. STL ROD, ENCASED IN A 5-INCH PVC PIPE WITH LOGO CAP. LOCATED AT COUNCIL BLUFFS MUNI ARP, 60.7' N-NW OF MID FIELD CONN ℄, 46.9' NE OF MAIN TWY ℄, 19.4' N WITNESS POST. MK "COUNPORT".
MJ0546	41° 16' 09" N	95° 48' 29" W	1009.83	THE STATION IS A BENCH MARK DISC TOP OF CONC MON MK "E 134 1948" 4.7 MI NE FROM C. B. (COUNCIL BLUFFS), 1.7 MI SE AND 3.0 MI NE ALONG RI& P RR FROM C. B., 167.0' WNW OF W END BRIDGE OVER MOSQUITO CREEK, 38.5' N ℄ GRAVEL RD, 19.2' W OF W RAIL, 1.5' S OF REF POST.
MJ0547	41° 17' 09" N	95°47' 55" W	1019.60	THE STATION IS A BENCH MARK DISC MK "D 134 1948" 4.9 MI SW OF WESTON. 0.4 MI SW OF OVERHEAD BRIDGE, TOP OF NE ABUTMENT OF STEEL BRIDGE NO 493.2, OVER DIRT RD, 2 2/3 RAILS SW OF SW END OF RR BRIDGE OVER LARGE STREAM.

NOTE:
1. ALL COORDINATES AND ELEVATIONS USE NAD 83 AND NAVD 88.

RUNWAY END COORDINATES - NAD 83

	RUNWAY 14		RUNWAY 32		RUNWAY 18		RUNWAY 36	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
LATITUDE	41° 15' 45.2716" N	41° 15' 45.2716" N	41° 15' 17.2556" N	41° 15' 17.2556" N	41° 16' 07.0103" N	41° 16' 07.0103" N	41° 15' 12.6904" N	41° 15' 12.6904" N
LONGITUDE	95° 45' 51.4183" W	95° 45' 51.4183" W	95° 45' 21.3376" W	95° 45' 21.3376" W	95°45' 26.7032" W	95°45' 26.7032" W	95°45' 28.6212" W	95°45' 28.6212" W

RUNWAY DATA TABLE

	RUNWAY 14/32				RUNWAY 18/36			
ITEM	EXISTING		ULTIMATE		EXISTING		ULTIMATE	
APPROACH CATEGORY - DESIGN GROUP	B-I		B-I		C-II		C-II	
RUNWAY LENGTH x WIDTH	3650'x60'		3650'x60'		5500'x100'		5500'x100'	
MAXIMUM ELEVATION ABOVE MSL	1244.9'		1244.9'		1244.9'		1244.9'	
RUNWAY MARKINGS	NPI		NPI		NPI/P		NPI/P	
RUNWAY LIGHTING	MIRL		MIRL		HIRL		HIRL	
PAVEMENT MATERIAL	PCC		PCC		PCC		PCC	
PAVEMENT STRENGTH	30,000 SW		30,000 SW		60,000 DW		60,000 DW	
RUNWAY SAFETY AREA (RSA) LENGTH x WIDTH	4130'x120'		4130'x120'		7500'x400'		7500'x400'	
RUNWAY OBJECT FREE AREA (ROFA) LENGTH x WIDTH	4130'x400'		4130'x400'		7500'x800'		7500'x800'	
RUNWAY OBSTACLE FREE ZONE (ROFZ) LENGTH x WIDTH	4050'x400'		4050'x400'		5900'x400'		5900'x400'	
TAXIWAY WIDTH	35'		35'		35'		35'	
TAXIWAY LIGHTING	MITL		MITL		MITL		MITL	
	14	32	14	32	18	36	18	36
APPROACH TYPE	A(NP)	A(NP)	A(NP)	A(NP)	C(NP)	D	D	PIR
APPROACH SURFACE SLOPE	20:1	20:1	20:1	20:1	34:1	34:1	34:1	50/40:1
PERCENT EFFECTIVE GRADIENT	+0.13%	-0.13%	+0.13%	-0.13%	+0.24%	-0.24%	+0.24%	-0.24%
ELECTRONIC AIDS	VOR A,GPS	VOR A,GPS	VOR A,GPS	VOR A,GPS	VOR A,GPS	LOC, GS	VOR A,GPS	LOC, GS
VISUAL APPROACH AIDS	REIL/PAPI	REIL/PAPI	REIL/PAPI	REIL/PAPI	REIL/PAPI	REIL/PAPI	REIL/PAPI	PAPI
APPROACH VISIBILITY MINIMUMS	1 MILE	1 MILE	1 MILE	1 MILE	1 MILE	3/4 MILE	3/4 MILE	1/2 MILE
TOUCHDOWN ZONE ELEVATION	1244.9'	1244.9'	1244.9'	1244.9'	1240.8	1244.9'	1240.8	1244.9'

REVISION BLOCK
NUMBER | DATE | DESCRIPTION

APPROVED BY:
DATE APPROVED:

PROJECT: COUNCIL BLUFFS MUNICIPAL AIRPORT
TITLE: AIRPORT LAYOUT DRAWING

SNYDER & ASSOCIATES
2727 S.W. SNYDER BLVD.
ANKENY, IOWA 50023
515-964-2020
ATLANTIC, IA 712-243-5835
CEDAR RAPIDS, IA 319-362-9326
CO. BLUFFS, IA 712-322-5202
MARYVILLE, MO 660-562-1688
ST. JOSEPH, MO 816-364-5225

PLNR:	JLS
CK. BY:	JLS
DR. BY:	RRD
DATE	11-2009
PROJECT NO.	109.0119
DWG. NO.	D-3158
SHEET	2 OF 15