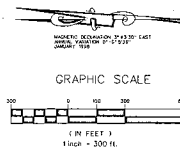


WIND DATA			
CROSSWINDS	RWY 16/34	RWY 06/24	COMBINED
10.8 KNOTS	81.15	71.45	85.72
13.0 KNOTS	95.75	83.90	98.30
15.0 KNOTS	95.60	91.17	99.53

SOURCE: SINK CITY GATEWAY AIRPORT
PERIOD: 1985-2004

NW COR
SEC 10-09-33



RUNWAY END COORDINATES - NAD 83							
RUNWAY 16		RUNWAY 34		RUNWAY 06		RUNWAY 24	
EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
43°24'53.32" N	43°24'53.32" N	43°24'06.42" N	43°24'06.42" N	43°24'17.85" N	43°24'16.36" N	43°24'26.70" N	43°24'26.70" N
84°44'53.76" W	84°44'53.76" W	84°44'41.55" W	84°44'41.55" W	84°45'04.97" W	84°45'11.49" W	84°44'26.25" W	84°44'26.25" W

AIRPORT DATA		
	EXISTING	ULTIMATE
AIRPORT ELEVATION	1317.0 MSL	1317.0 MSL
AIRPORT REFERENCE CODE	ARC 3-1	ARC 3-1
AIRPORT REFERENCE POINT (ARP)	84°44'46.97" W	84°44'46.97" W
MEAN MAX TEMP.	86.5°F	86.5°F
AIRPORT NAVIGATIONAL AID	VOR, NDB	VOR, NDB
ROTATING BEACON	YES	YES
SEGMENTED CIRCLE	NO	NO
LIGHTED WIND INDICATOR	YES	YES
AUTOMATED SURFACE OBSERVING SYSTEM	YES	YES

DECLARED DISTANCE TABLE				
	RUNWAY 15		RUNWAY 34	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAKEOFF RUNWAY AVAILABLE (TORA)	4797	4797	4797	4797
TAKEOFF DISTANCE AVAILABLE (TODA)	4797	4797	4797	4797
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	4797	4797	4797	4797
LANDING DISTANCE AVAILABLE (LDA)	4797	4797	4797	4797

	RUNWAY 06		RUNWAY 24	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAKEOFF RUNWAY AVAILABLE (TORA)	2995	3500	2995	3500
TAKEOFF DISTANCE AVAILABLE (TODA)	2995	3500	2995	3500
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	2995	3500	2995	3500
LANDING DISTANCE AVAILABLE (LDA)	2995	3500	2995	3500

- NOTES**
1. THERE ARE NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS
 2. THERE ARE NO OBSTACLE FREE ZONE (OFZ) OBJECT PENETRATIONS
 3. THERE ARE NO MODIFICATIONS TO DESIGN STANDARDS

BUILDING IDENTIFICATION	
AIRPORT MGR. RESIDENCE	6 TEE HANGAR
MAINTENANCE	7 TEE HANGAR
TERMINAL	8 OFFICE/CLASSROOM
TEE HANGAR	9 TEE HANGAR
CONV. HANGAR	10 CONV. HANGAR

LEGEND		
DESCRIPTION	EXISTING	ULTIMATE
AIRPORT PROPERTY LINE (PL)	---	---
BUILDING RESTRICTION LINE (BRL)	---	---
RUNWAY VISIBILITY ZONING OF SIGHT	---	---
RUNWAY PROTECTION ZONE (RPZ)	---	---
RUNWAY PROTECTION ZONE EASEMENT	---	---
RUNWAY SAFETY AREA (RSA) AND RUNWAY OBJECT FREE AREA (ROFA)	---	---
BUILDING - STRUCTURES	---	---
PRECISION APPROACH PATH INDICATOR (PAPI)	---	---
RUNWAY END IDENTIFIER LIGHTS (REIL)	---	---
THRESHOLD LIGHTS	---	---
FENCE	---	---

RUNWAY DATA TABLE					
ITEM	RUNWAY 16/34		RUNWAY 06/24		
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	
APPROACH CATEGORY / DESIGN GROUP	B-I	B-I	B-I	B-I	
RUNWAY LENGTH / WIDTH	4,797' X 75'	4,797' X 75'	2,995' X 60'	3,500' X 60'	
RUNWAY MARKINGS	NPI	NPI	EDGE MARKERS	NPI	
RUNWAY LIGHTING	MEL	MEL	NONE	MEL	
PAVEMENT MATERIAL	ASPHALT	ASPHALT	TURF	ASPHALT	
PAVEMENT STRENGTH (R00)	11,000 SW	12,500 SW	3,465	3,960	
RUNWAY SAFETY AREA (RSA) LENGTH	5,397'	5,397'	3,465'	3,960'	
RUNWAY SAFETY AREA (RSA) WIDTH	150'	120'	120'	120'	
OBJECT FREE AREA (OFA) LENGTH	5,397'	5,397'	3,385'	3,900'	
OBJECT FREE AREA (OFA) WIDTH	500'	500'	400'	400'	
OBSTACLE FREE ZONE (OFZ) LENGTH	5,119'	5,119'	3,380'	3,900'	
OBSTACLE FREE ZONE (OFZ) WIDTH	250'	250'	250'	250'	
TAXIWAY WIDTH	NONE	35'	NONE	50'	
TAXIWAY LIGHTING	NONE	MEL	NONE	MEL	
APPROACH SURFACE SLOPE	16 34 15 34 20 24 20 24				
ELECTRONIC AIDS	VOR VOR/NDB VOR GPS	VOR/NDB VOR GPS	NONE VOR/NDB VOR GPS	NONE VOR/NDB VOR GPS	
VISUAL APPROACH AIDS	PAPI, REIL, PAPI, REIL, PAPI, REIL	PAPI, REIL, PAPI, REIL, PAPI, REIL	NONE	NONE	VGS, REIL, VGS, REIL
APPROACH VISIBILITY MINIMUMS	1 MILE 1 MILE 1 MILE 1 MILE	1 MILE 1 MILE 1 MILE 1 MILE	1 MILE 1 MILE	1 MILE 1 MILE	
TOUCHDOWN ZONE ELEVATION	1,317' 1,317' 1,317' 1,317'		1,317' 1,317'	1,317' 1,317'	

MODIFICATIONS TO AIRPORT DESIGN STANDARDS			
APPROVAL DATE	AIRSPACE CASE NO.	STANDARD MODIFIED	DESCRIPTION
NONE REQUIRED			

HOLDING POSITION TABLE		
HOLDING POSITION	HOLD TYPE	DISTANCE
HL 1	RUNWAY	200'
HL 2	RUNWAY	200'
HL 3	RUNWAY	200'
HL 4	RUNWAY	200'
HL 5	RUNWAY	200'
HL 6	RUNWAY	200'
HL 7	RUNWAY	125'
HL 8	RUNWAY	125'
HL 9	RUNWAY	125'
HL 10	RUNWAY	125'

* DISTANCE IS MEASURED PERPENDICULAR FROM RUNWAY CENTERLINE

APPROVED BY: *[Signature]* 11/17/17
DATE APPROVED: _____

ESTHERVILLE MUNICIPAL AIRPORT
AIRPORT LAYOUT PLAN

DESIGNED BY: *[Signature]* 11/17/17
DRAWN BY: *[Signature]* 11/17/17
CHECKED BY: *[Signature]* 11/17/17
DATE: 11-15-17