ALL WEATHER WIND ROSE

RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
18-36	96.6%	98.4%	99.7%

WIND DATA PERIOD: 2004-2014
SOURCE: VBT AWOS, FAA AGIS WEBSITE
STATION: #723444

AIRPORT DATA TABLE

	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE (ARC)	B-II	SAME
AIRPORT ELEVATION (MSL)	1298'	SAME
AIRPORT REFERENCE POINT LAT/LONG (NAD 83)	N 36° 20' 42.9026" W 94° 13' 09.6061"	N 36° 20' 45.1400" W 94° 13' 10.1881"
MEAN DAILY MAX TEMPERATURE	89°	SAME
HOTTEST MONTH	AUGUST	SAME
NPIAS SERVICE LEVEL	GENERAL AVIATION	SAME
STATE EQUIVALENT SERVICE ROLE	LEVEL 2	SAME
TAXIWAY WIDTH	35' & 40'	SAME
TAXIWAY OBJECT FREE AREA (TOFA)	131'	SAME
TAXIWAY SAFETY AREA (TSA)	79'	SAME
TAXIWAY SHOULDER WIDTH	15'	SAME
TAXIWAY EDGE SAFETY MARGIN (TESM)	7.5'	SAME
TAXIWAY LIGHTING	MITL AT FILLETS	MITL
TAXIWAY MARKING	CENTERLINE,HOLD LINES	SAME
MAGNETIC VARIATION	1°46' E	N/A
DATE OF MAGNETIC VARIATION	2015	N/A
AIRPORT NAVAIDS	ROTATING BEACON, WIND SOCK, AWOS	ROTATING BEACON, WIND SOCK, AWOS, WIND TEE

LEGEND

	EXISTING	ULTIMATE
RUNWAY OBJECT FREE AREA	ROFA	ROFA
RUNWAY SAFETY AREA	RSA	RSA
RUNWAY OBSTACLE FREE ZONE	ROFZ	ROFZ
TAXIWAY OBJECT FREE AREA	TOFA	TOFA
APPROXIMATE BUILDING RESTRICTION LINE (BRL)	BRL	BRL
RUNWAY PROTECTION ZONE	RPZ	RPZ
TURF RUNWAY PROTECTION ZONE	N/A	RPZ
PART 77 RUNWAY APPROACH SURFACE	APP	APP
PART 77 TURF RUNWAY APPROACH SURFACE	N/A	APP
RWY GLIDE PATH QUALIFICATION SURFACE	GQS	GQS
RUNWAY THRESHOLD SITING SURFACE	TSS	TSS
TURF RUNWAY THRESHOLD SITING SURFACE	N/A	TSS
RUNWAY DEPARTURE SURFACE	DEP	DEP
TURF RUNWAY	N/A	
PAVEMENTS (ON AIRPORT)		
AIRPORT PROPERTY LINE	P	P
BUILDINGS (ON AIRPORT)		1290
DEMOLITION		
NON-AVIATION DEVELOPMENT AREA		

	EXISTING	ULTIMATE
AIRPORT SURVEY MONUMENTS		
ROTATING BEACON		SAME
AIRPORT REFERENCE POINT		
WIND CONE		SAME
WIND TEE	N/A	
AWOS (LIGHTED)		
RTR FACILITY		
PAPI	N/A	
REILS		
THRESHOLD LIGHTS		
TIE DOWN LOCATIONS		
AVIGATION EASEMENT	N/A	
TREE LINE		SAME
EDGE OF WATER FEATURE / WETLAND		SAME
FENCE	X	
EXISTING PAVED ROADWAY		N/A
		SAME

300 0 300 600 feet
SCALE: 1"=300'

MAGNETIC DEC.
1° 46' E (2015)

SIGNATURES

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGION

APPROVED - SUBJECT TO CONDITIONS IN THE LETTER OF CONDITIONAL APPROVAL INCLUDED IN THIS ELECTRONIC ALP

MANAGER, ARKANSAS / OKLAHOMA
AIRPORTS DISTRICT OFFICE

SPONSOR APPROVAL

STEPHANIE ORMAN, MAYOR
CITY OF BENTONVILLE, AR

VICINITY MAP

GARVER

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RUNWAY 18-36 (PAVED) DECLARED DISTANCES

	RUNWAY 18		RUNWAY 36	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
TAKEOFF RUN AVAILABLE (TORA)	4453'	SAME	4453'	4796'
TAKEOFF DISTANCE AVAILABLE (TODA)	4453'	SAME	4453'	4796'
ACCELERATE-STOP DISTANCE AVAILABLE (ASDA)	4453'	5053'	4196'	4796'
LANDING DISTANCE AVAILABLE (LDA)	4196'	4796'	4196'	SAME

NOTES

1. FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF THE FUTURE FACILITIES DEPICTED. DURING THE PRELIMINARY DESIGN PHASE, THE AIRPORT OWNER IS REQUIRED TO SUBMIT FOR APPROVAL THE FINAL LOCATIONS, HEIGHTS AND EXTERIOR FINISHES OF STRUCTURES. FAA'S CONCERNS ARE OBSTRUCTIONS, IMPACT ON ELECTRONIC AIDS AND ADVERSE EFFECT ON CONTROLLER VIEW OF AIRCRAFT APPROACHES AND GROUND MOVEMENTS, WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY OR UTILITY OF THE AIRPORT.
2. ALL LATITUDE AND LONGITUDE COORDINATES ARE NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. ALL ELEVATIONS ARE IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS. GROUND SURVEYS ARE RECOMMENDED TO VERIFY ACCURACY. ALL ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (NAVD 88). NO SURVEYS WERE OBTAINED FOR THIS UPDATE.
4. FOR CLARITY, THE RSA, ROFZ & ROFA NOTED ON THE DRAWING FOR RUNWAY 18-36 (PAVED) ARE BASED ON EXISTING RUNWAY CENTERLINE, NOT THE ULTIMATE CENTERLINE SHIFTED FIVE FEET WEST. THE FUTURE TURF RUNWAY RSA, ROFZ & ROFA ARE NOT SHOWN FOR CLARITY.
5. ADDITIONAL DEVELOPMENT RESTRICTIONS APPLY WITHIN 500' OF THE AWOS STRUCTURE TO PRESERVE THE PERFORMANCE OF THE VARIOUS WEATHER SENSORS. THESE RESTRICTIONS INCLUDE LIMITING OF STRUCTURE/BUILDING HEIGHTS RELATIVE TO THE ANEMOMETER HEIGHT AND VISIBILITY SENSOR. REFER TO FAA ORDER 6560-20B *SITING CRITERIA FOR AUTOMATED WEATHER OBSERVING SYSTEMS* (AWOS) FOR SPECIFICS.
6. THE POSITION OF THE BRL IS APPROXIMATE ONLY AND BASED ON A 25' BUILDING HEIGHT. ACTUAL BUILDING PLACEMENT AND HEIGHTS SHALL BE DICTATED BY PART 77 SURFACES, TOFA'S, AND NAVAID CRITICAL AREAS.
7. LAYOUT OF ULTIMATE HANGARS IS CONCEPTUAL AND MAY CHANGE PENDING TENANT NEEDS AND FINAL DESIGN.
8. TREE PENETRATIONS EXISTING IN THE EXIST. RUNWAY 18 TSS. SEE SHEET 5.
   POWER POLE PENETRATIONS EXIST IN THE ULTIMATE RUNWAY 36 TSS. SEE SHEET 7.
9. CITY OF BENTONVILLE ZONING ORDINANCES:
   A. POLICY PF-39: THE CITY SHALL PROTECT THE FUNCTION OF THE MUNICIPAL AIRPORT BY LIMITING RESIDENTIAL ENCROACHMENT INTO APPROACH ZONES.
   B. POLICY PF-40: THE CITY SHALL REGULATE LAND USES, INTENSITIES, AND STRUCTURAL HEIGHTS TO PROTECT THE FUNCTIONALITY AND SAFETY OF LONG-TERM AIRPORT OPERATIONS.

BUILDING / FACILITIES INDEX TABLE

NO.	EXISTING	NO.	ULTIMATE	PHASE
1	STORAGE HANGAR			
2	T-HANGAR	21	PAPIS	I
3	FUEL FARM	22	MAINTENANCE/FUELING BLDG	I
4	T-HANGAR	23	HANGAR/ APRON/ FBO DVLP. (BOX/CORPORATE OR T-HANGARS)	I (SEE NOTE 5)
5	TERMINAL / FBO	24	CORPORATE HANGAR	I
6	CORPORATE HANGAR	25	TAXIWAY DEMOLITION	I
7	CORPORATE HANGAR	26	RUNWAY 36 EXTENSION	I
8	T-HANGAR	27	HANGAR/ APRON DEVELOPMENT (BOX/CORPORATE OR T-HANGARS)	II (SEE NOTE 5)
9	CORPORATE HANGAR			
10	CORPORATE HANGAR	29	TAXIWAY IMPROVEMENTS	I
11	CORPORATE HANGAR			
12	CORPORATE HANGAR	31	PERIMETER ROAD	III
13	T-HANGAR			
14	FLIGHT CENTER (FBO)	33	MAINTENANCE BUILDING	II
15	CORPORATE HANGAR	34	RUNWAY WIDENING/ LIGHTING IMPROVEMENTS	I
16	CORPORATE HANGAR			
17	BOX HANGAR			
18	BOX HANGAR			
19	BOX HANGAR			
20	CORPORATE HANGAR			
	PHASING PROGRAM			
I	0-5 YEARS			
II	5-10 YEARS			
III	10-20 YEARS			

RUNWAY 18-36 (PAVED) DATA TABLE

DESCRIPTION	EXISTING RW 18	EXISTING RW 36	ULTIMATE RW 18	ULTIMATE RW 36
APPROACH VISIBILITY MINIMUMS	1 MILE	1 MILE	SAME	SAME
FAR PART 77 APPROACH SLOPE	34:1	34:1	SAME	SAME
RUNWAY MARKINGS	NPI	NPI	SAME	SAME
VISUAL APPROACH AIDS	MIRLS/REILS	MIRLS/REILS	MIRLS/REILS,PAPI	MIRLS/REILS,PAPI
INSTRUMENT APPROACH AIDS	VOR/DME,GPS	VOR/DME,GPS	SAME	SAME
RUNWAY END COORDINATES (NAD 83) LATITUDE LONGITUDE	N36°21'05.05" W94°13'09.40"	N36°20'21.02" W94°13'09.87"	SAME	N36°20'18.06" W94°13'09.83"
DISPLACED THRESHOLD COORDINATES (NAD 83) LATITUDE LONGITUDE	N36°21'02.51" W94°13'09.43"	N/A N/A	SAME	N36°20'21.02" W94°13'09.87"
RUNWAY END ELEVATION (MSL)	1289.30'	1292.54'	SAME	1292.5'±
RUNWAY HIGH POINT/LOW POINT ELEVATION (MSL)	1297.99' / 1288.97'		SAME	
DISPLACED THRESHOLD ELEV. (MSL)	1289.11'	N/A	SAME	1292.5'±
RUNWAY DESIGN CODE (RDC)	B-II-5000		SAME	
APPROACH REFERENCE CODE (APRC)	B-II-5000		SAME	
DEPARTURE REFERENCE CODE (DPRC)	B-II		SAME	
TRUE BEARING	180.25	.25	SAME	SAME
DIMENSIONS (LENGTH x WIDTH)	4453' x 65'		5053' x 75'	
SURFACE TYPE	ASPHALT		SAME	
PAVEMENT DESIGN STRENGTH (LBS)	S-12,500, D-21,500		D-45,000	
PAVEMENT CLASSIFICATION NUMBER (PCN)	21		SAME	
LIGHTING / SIGNAGE	MIRL		SAME	
MAXIMUM GRADE	0.99%		0.99%	
RUNWAY PROTECTION ZONE (RPZ)	500' x 1000' x 700'		SAME	
ROFZ DIMENSIONS	4853' x 400'		5453' x 400'	
RSA DIMENSIONS	4796' x 150'		5396' x 150'	
ROFA DIMENSIONS	4796' x 500'		5396' x 500'	
CRITICAL AIRCRAFT	CITATION SOVEREIGN		SAME	
WIND COVERAGE (ALL WEATHER)	98.4%		SAME	
CROSSWIND COMPONENT	13 KNOTS		SAME	
USABLE RUNWAY LENGTH	4453'	4196'	5053'	4796'
DISPLACED THRESHOLD	257'	N/A	SAME	600'
AERONAUTICAL SURVEY REQUIRED	NVGS + VGAS		SAME	

RUNWAY 17-35 (TURF) DATA TABLE

DESCRIPTION	ULTIMATE RW 17	ULTIMATE RW 35
APPROACH VISIBILITY MINIMUMS	VISUAL	VISUAL
FAR PART 77 APPROACH SLOPE	20:1	20:1
RUNWAY MARKINGS	N/A	N/A
VISUAL APPROACH AIDS	N/A	N/A
INSTRUMENT APPROACH AIDS	N/A	N/A
RUNWAY END COORDINATES (NAD 83) LATITUDE LONGITUDE	N36°20'55.86" W94°13'11.20"	N36°20'31.65" W94°13'11.42"
DISPLACED THRESHOLD COORDINATES (NAD 83) LATITUDE LONGITUDE	N/A N/A	N/A N/A
RUNWAY END ELEVATION (MSL)	1288.75'	1292.47'
RUNWAY HIGH POINT/LOW POINT ELEVATION (MSL)	1294.73' / 1288.75'	
DISPLACED THRESHOLD ELEV. (MSL)	N/A	
RUNWAY DESIGN CODE (RDC)	A-I(S)-VIS	
APPROACH REFERENCE CODE (APRC)	A-I(S)-VIS	
DEPARTURE REFERENCE CODE (DPRC)	A-I(S)	
TRUE BEARING	180.25	.25
DIMENSIONS (LENGTH x WIDTH)	2448' x 75'	
SURFACE TYPE	TURF	
PAVEMENT DESIGN STRENGTH (LBS)	N/A	
PAVEMENT CLASSIFICATION NUMBER (PCN)	N/A	
LIGHTING / SIGNAGE	N/A	
MAXIMUM GRADE	1.16%	
RUNWAY PROTECTION ZONE (RPZ)	250' x 1000' x 450'	
ROFZ DIMENSIONS	2848' x 120'	
RSA DIMENSIONS	2928' x 120'	
ROFA DIMENSIONS	2928' x 250'	
CRITICAL AIRCRAFT	CARBON CUB, STEARMAN	
WIND COVERAGE (ALL WEATHER)	96.6%	
CROSSWIND COMPONENT	10.5 KNOTS	
USABLE RUNWAY LENGTH	2448'	2448'
DISPLACED THRESHOLD	N/A	N/A
AERONAUTICAL SURVEY REQUIRED	NVGS	NVGS

MODIFICATIONS OF STANDARDS

NO.	STANDARD MODIFIED	PROPOSED ACTION	FAA CASE NO.	DATE APPROVED
1.	AC 150/5300-13A, FIGURE 23, TRANSVERSE GRADE LIMITATIONS FOR RUNWAYS/ RSA'S.	GRADE A NEW TURF RUNWAY AND RSA AT A CONTINUOUS TRANSVERSE CROSS SLOPE EQUAL TO 2% WITH NO CROWN.	---	6/25/15

NO.	REVISIONS	BY	DATE	APPROVALS SPONSOR/DATE	FAA/DATE	ADA/DATE
1.	PROPERTY LINE UPDATE	GARVER	3/17/17			
2.	WEST TAXIWAY CONSTRUCTED AND RUNWAY EXTENSION REMOVAL	GARVER	5/22/19			
3.	RUNWAY 36 DISPLACED THRESHOLD REMOVAL, RUNWAY 18 TUNNEL ADDED	GARVER	10/21/19			
4.	PROPERTY LINE UPDATE, RUNWAY 36 AND TAXIWAY EXTENSION ADDED	GARVER	2/26/21			

REV.	DATE	DESCRIPTION	BY

BENTONVILLE MUNICIPAL AIRPORT
BENTONVILLE, ARKANSAS

AIRPORT LAYOUT PLAN

AIRPORT LAYOUT PLAN

JOB NO.: 16041191
DATE: MARCH 2017
DESIGNED BY: SAM
DRAWN BY: SAM

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
2

SHEET NUMBER