

AIRPORT LAYOUT PLAN

FOR

MESA-FALCON FIELD AIRPORT

Mesa, Arizona

DEVIATIONS FROM STANDARDS

DEVIATION DESCRIPTION	AFFECTED DESIGN STANDARD	STANDARD	EXISTING	PROPOSED DISPOSITION
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SEE SHEET 4

RUNWAY DATA TABLE

	RUNWAY 4R-22L		RUNWAY 4L-22R	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
	4R	22L	4L	22R
AIRCRAFT APPROACH CATEGORY-DESIGN GROUP	B-II	B-II	B-I	B-II
APPROACH REFERENCE CODE (APRC)	B/II/5000	B/II/5000	B/I/VIS	B/II/VIS
DEPARTURE REFERENCE CODE (DPRC)	B/II	B/II	B/I (S)	B/II
CRITICAL AIRCRAFT	CITATION II	CITATION II	KING AIR 100	CITATION II
CRITICAL AIRCRAFT WINGSPAN (FEET)	51.7	45.8	51.7	51.7
CRITICAL AIRCRAFT UNDERCARRIAGE WIDTH (FEET)	17.6	17.6	7.7	17.6
CRITICAL AIRCRAFT APPROACH SPEED (KNOTS)	108	108	111	108
CRITICAL AIRCRAFT MAXIMUM CERTIFIED TAKEOFF WEIGHT (1,000 LBS.)	13.3	13.3	16.7	13.3
APPROACH VISIBILITY MINIMUMS AND TYPE OF APPROACH (LOWEST)	1 Mile / NP ANP	1 Mile / NP ANP	1 Mile / NP ANP	1 Mile / NP ANP
F.A.R. PART 77 CATEGORY	ANP	ANP	ANP	ANP
PERCENTAGE OF WIND COVERAGE (ALL WEATHER IN MPH)	YES	YES	YES	YES
LINE OF SIGHT REQUIREMENT MET	1394.0	1394.0	1386.0	1386.0
MAXIMUM ELEVATION (ABOVE MSL)	1365.4	1365.4	1365.7	1365.7
LOWEST ELEVATION (ABOVE MSL)	5,099.89' x 100'	5,099.89' x 100'	3,799.59' x 75'	3,799.59' x 75'
RUNWAY DIMENSIONS	51.17	231.18	51.17	231.18
RUNWAY BEARING (TRUE BEARING - DECIMAL DEGREES)	34:1	20:1	34:1	20:1
RUNWAY APPROACH SURFACES (F.A.R. PART 77)	1365.4	1394.0	1365.4	1386.0
RUNWAY END ELEVATION (NAVD 88) - SEE ALSO THE RUNWAY END DATA TABLE	4	3	4	4
RUNWAY THRESHOLD DISPLACEMENT	NONE	NONE	NONE	NONE
RUNWAY THRESHOLD STING REQUIREMENTS (AC 150/5300-13A, TABLE 3-2)	150'/150'	150'	120'/120'	150'
RUNWAY STOPWAY	300'/300'	300'	240'/240'	300'/300'
RUNWAY SAFETY AREA WIDTH (RSA) - STANDARDS/EXISTING	400'	400'	250'	400'
RUNWAY SAFETY AREA (RSA) BEYOND RWY STOP END - STANDARDS/EXISTING	200'	200'	200'	200'
RUNWAY OBSTACLE FREE ZONE WIDTH (OFZ)	300'	300'	240'	300'
RUNWAY OBSTACLE FREE ZONE (OFZ) BEYOND RUNWAY STOP END	ASPHALT (100/6-2014)	ASPHALT	ASPHALT (66/5-2013)	ASPHALT
RUNWAY OBJECT FREE AREA (OFA) BEYOND RUNWAY STOP END	38(S)/60(D)/90(DT)	38(S)/60(D)/90(DT)	12.5(S)	30(S)
RUNWAY PAVEMENT SURFACE MATERIAL (AND ADOT PCI RATING/DATE)	0.56%	0.56%	0.53%	0.53%
RUNWAY PAVEMENT STRENGTH (IN THOUSAND LBS.)	1363.4	1394.0	1382.7	1386.0
RUNWAY EFFECTIVE GRADIENT	1363.4	1394.0	1382.7	1386.0
RUNWAY MAXIMUM GRADIENT	NONPRECISION	NONPRECISION	BASIC	BASIC
RUNWAY TOUCHDOWN ZONE ELEVATION (ABOVE MSL)	MIRL	MIRL	MIRL	MIRL
RUNWAY MARKING	NONE	NONE	NONE	NONE
RUNWAY LIGHTING	250'	250'	200'	240'
RUNWAY APPROACH LIGHTING	200'	200'	125'	200'
RUNWAY TO TAXIWAY SEPARATION (FROM CENTERLINE TO CENTERLINE)	105'	105'	105'	105'
RUNWAY HOLD LINE POSITION (FROM RUNWAY CENTERLINE)	65.5'	65.5'	65.5'	65.5'
TAXIWAY TO TAXIWAY SEPARATION (FROM CENTERLINE TO CENTERLINE)	MIL	MIL	MIL	MIL
TAXIWAY CENTERLINE TO FIX OR MOVEABLE OBJECT	CENTERLINE/SIGNAGE	CENTERLINE/SIGNAGE	CENTERLINE/SIGNAGE	CENTERLINE/SIGNAGE
TAXIWAY LIGHTING	ASPHALT	ASPHALT	ASPHALT	ASPHALT
TAXIWAY MARKING	26'	26'	20'	26'
TAXIWAY SURFACE MATERIAL	50'	50'	40'	40'
TAXIWAY WINGTIP CLEARANCE	79'	79'	79'	79'
TAXIWAY WIDTH	131'	131'	131'	131'
TAXIWAY SAFETY AREA WIDTH	PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)	PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)	PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)	PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 4-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)PAPI 2-L (4*)
TAXIWAY OBJECT FREE AREA WIDTH	REIL	REIL	REIL	REIL
RUNWAY VISUAL NAVIGATIONAL AIDS	GPS	GPS	GPS	GPS
RUNWAY INSTRUMENT NAVIGATIONAL AIDS	500x1000x700	500x1000x700	500x1000x700	500x1000x700
TYPE OF AERONAUTICAL SURVEY REQUIRED FOR APPROACH	500x1000x700	500x1000x700	500x1000x700	500x1000x700
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	500x1000x700	500x1000x700	500x1000x700	500x1000x700

*Pavement strengths are expressed in Single(S), Dual(D) and Dual Tandem(DT) wheel loading capacities.

INDEX OF DRAWINGS

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AIRPORT DATA TABLE

MESA-FALCON FIELD AIRPORT (FFZ)			
CITY:	COUNTY:	RANGE:	TOWNSHIP:
MESA, ARIZONA	MARICOPA, ARIZONA	6 EAST	1 NORTH
STATE AND NPAS AIRPORT SERVICE LEVEL		EXISTING	ULTIMATE
AIRPORT REFERENCE CODE		B-II	B-II
AIRPORT ELEVATION		1394.0	1394.0
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		106° F (July)	106° F (July)
AIRPORT REFERENCE POINT (ARP)		33° 27' 39.3774" N	33° 27' 39.3774" N
COORDINATES (NAD 83*)		Longitude 111° 43' 42.4117" W	Longitude 111° 43' 42.4117" W
AIRPORT and TERMINAL NAVIGATIONAL AIDS (OWNED BY THE AIRPORT)			
MISCELLANEOUS FACILITIES		ASOS ROTATING BEACON	ASOS ROTATING BEACON
MAGNETIC DECLINATION (06-01-2015 WMM MODEL)		10°28' E (0.5" W/YEAR)	
GPS Approach		4R/22L	4R/22L

RUNWAY END DATA

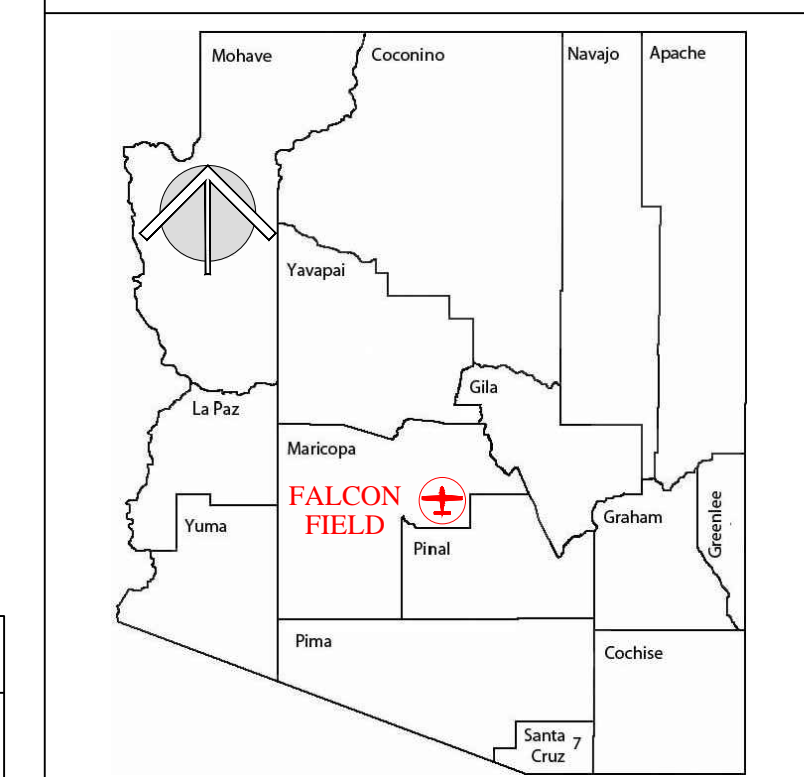
RUNWAY	EXISTING		ULTIMATE	
	ELEV	LAT/LONG	ELEV	LAT/LONG
Runway 4R	1365.4	33° 27' 21.2523" N 111° 44' 02.6928" W	1365.4	33° 27' 21.2523" N 111° 44' 02.6928" W
Runway 22L	1394.0	33° 27' 52.8854" N 111° 43' 15.7950" W	1394.0	33° 27' 52.8854" N 111° 43' 15.7950" W
Runway 4L	1365.7	33° 27' 29.8945" N 111° 44' 03.0434" W	1365.7	33° 27' 29.8945" N 111° 44' 03.0434" W
Runway 22R	1386.0	33° 27' 53.4736" N 111° 43' 28.1145" W	1386.0	33° 27' 53.4736" N 111° 43' 28.1145" W

*GEOIDIC DATUM:
ARIZONA CENTRAL STATE PLANE DATUM, NAD83 HORIZ./NAVD88 VERTICAL

DECLARED DISTANCES DATA

	EXISTING RUNWAY 4R-22L		ULTIMATE RUNWAY 4R-22L		EXISTING RUNWAY 4L-22R		ULTIMATE RUNWAY 4L-22R	
	4R	22L	4R	22L	4L	22R	4L	22R
TORA - TAKEOFF RUN AVAILABLE	5,101'	5,101'	5,101'	5,101'	3,799'	3,799'	3,799'	3,799'
TODA - TAKEOFF DISTANCE AVAILABLE	5,101'	5,101'	5,101'	5,101'	3,799'	3,799'	3,799'	3,799'
ASDA - ACCELERATE-STOP DISTANCE AVAILABLE	5,101'	5,101'	5,101'	5,101'	3,799'	3,799'	3,799'	3,799'
LDA - LANDING DISTANCE AVAILABLE	5,101'	5,101'	5,101'	5,101'	3,799'	3,799'	3,799'	3,799'

LOCATION MAP



SPONSOR APPROVAL

BY: NATALIE LEWIS
DEPUTY CITY MANAGER

DATE

FAA APPROVAL

VICINITY MAP



WIND DATA TABLE

Runway	10.5 Knots	13 Knots	16 Knots	20 Knots
4-22	94.51%	97.73%	99.65%	99.94%

SOURCE: NOAA NATIONAL CLIMATIC DATA CENTER - ASHEVILLE, NC
RECORDS FOR MESA-FALCON FIELD, MESA, ARIZONA.
OBSERVATIONS: 23,996 ALL-WEATHER (1997-2006)

MESA-FALCON FIELD AIRPORT (FFZ)
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REVISION DESCRIPTION	DATE
UPDATE ALP - EXISTING AND ULTIMATE IMPROVEMENTS	01/20/2016
ADD EXISTING ASOS and ULTIMATE RWY 4L-22R BLAST PADS	07/15/2016

TITLE SHEET

MESA - FALCON FIELD AIRPORT (FFZ)

MESA, ARIZONA

Planning:	NJP	Sheet No.	1
Drawn:	NJP		
Checked:	RT		
Date:	07/15/2016		
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