

AIRPORT DATA TABLE		
	EXISTING	FUTURE
AIRPORT REFERENCE CODE	C-III	D-III
MEAN MAXIMUM TEMPERATURE / HOTTEST MONTH	87° / JULY	SAME
AIRPORT ELEVATION (NAVD 88)	192.2'	SAME
AIRPORT NAVIGATIONAL AIDS	BEACON	BEACON / DME (FAA)
AIRPORT REFERENCE POINT (NAD 83)	LAT. 38° 43' 16"N LONG. 77° 30' 54"W	38° 43' 14"N 77° 30' 53"W
MISCELLANEOUS FACILITIES	SEGMENTED CIRCLE W/ LIGHTED WINDCONE, AWOS, ATCT, MITL	SAME
AIRPORT REFERENCE CODE AND CRITICAL AIRCRAFT	C-III / GULFSTREAM G500	D-III / B737-800
MAGNETIC VARIATION ¹	10° 27' WEST JULY 2022 ANNUAL CHANGE 0° 0' WEST	SAME
NPIAS SERVICE LEVEL	RELIEVER	COMMERCIAL SERVICE - PRIMARY
STATE EQUIVALENT SERVICE ROLE	GA - NATIONAL	AIR CARRIER

¹ MAGNETIC VARIATION SOURCE: NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION, WORLD MAGNETIC MODEL (WMM) (2019-2024)

MODIFICATION TO STANDARDS			
DESCRIPTION	STANDARD TO BE MODIFIED	AIRSPACE CASE NO.	APPROVAL DATE
Taxiway B east side for 2,300 feet from Taxiway E to Taxiway G; ADG III Standard 59 ft. (118' wingspan) vs MOS 44 ft. (88' wingspan)	Taxiway Safety Area (TSA)	ADIP HEF_2023_33814	3/29/2023

DECLARED DISTANCES					
RUNWAY END		TODA	TORA	ASDA	LDA
RUNWAY 16L	EXISTING	6,200'	6,200'	6,200'	6,200'
	FUTURE	6,700'	6,700'	6,700'	6,700'
RUNWAY 34R	EXISTING	6,200'	6,200'	6,200'	6,200'
	FUTURE	6,700'	6,700'	6,700'	6,700'
RUNWAY 16R	EXISTING	3,175'	3,175'	3,175'	3,175'
	FUTURE	SAME		3,175'	3,175'
RUNWAY 34L	EXISTING	3,175'	3,175'	3,175'	3,175'
	FUTURE	SAME			

SURVEY MONUMENTS					
DESIGNATION	NGS PID	PACS OR SACS	LATITUDE	LONGITUDE	ELEVATION
W10 B HEF	HV9242	SACS	38° 43' 25.25"	77° 30' 50.60"	174.8'
W10 C HEF	HV9243	SACS	38° 43' 01.80"	77° 30' 37.92"	172.9'

SOURCE: NATIONAL GEODETIC SURVEY, NAD 83 (2011), NAVD 88

RUNWAY DATA TABLE									
		RUNWAY 16L		RUNWAY 34R		RUNWAY 16R		RUNWAY 34L	
		EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE
RUNWAY DESIGN CODE (RDC)		C-III-2400	D-III-2400	C-III-5000	D-III-5000	B-II-5000	SAME	B-II-5000	SAME
APPROACH REFERENCE CODE (APRC)		C/III/2400	D/III/2400	C/III/5000	D/III/5000	B/II/4000	SAME	B/II/4000	SAME
DEPARTURE REFERENCE CODE (DPRC)		C/III	D/III	C/III	D/III	B/II	SAME	B/II	SAME
PAVEMENT SURFACE		ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME	ASPHALT	SAME
SURFACE TREATMENT		GROOVED		GROOVED		N/A		N/A	
PAVEMENT STRENGTH - WHEEL LOADING (POUNDS)	S	50,000	50,000	50,000	50,000	30,000	SAME	30,000	SAME
	D	140,000	174,200	140,000	174,200	N/A		N/A	
PAVEMENT STRENGTH - PCR		N/A							
RUNWAY GRADIENT		-0.2%	TBD	0.2%	TBD	-0.3%	TBD	0.3%	TBD
PERCENT WIND COVERAGE (ALL WEATHER)	10.5 KNOTS	98.69%	SAME	98.69%	SAME	98.69%	SAME	98.69%	SAME
	13 KNOTS	99.53%		99.53%		99.53%			
	16 KNOTS	99.92%		99.92%		99.92%			
RUNWAY LENGTH		6,200'	6,700'	6,200'	6,700'	3,715'	SAME	3,715'	SAME
RUNWAY WIDTH		100'	150'	100'	150'	75'	SAME	75'	SAME
RUNWAY END - COORDINATES (NAD 83)	LAT. LONG.	38° 43' 39.72" 77° 31' 07.59"	SAME	38° 42' 46.32" 77° 30' 29.20"	38° 42' 42.01" 77° 30' 26.10"	38° 43' 36.14" 77° 31' 15.87"	SAME	38° 43' 04.15" 77° 30' 52.86"	SAME
RUNWAY END - ELEVATION (NAVD 88)		192.2'		177.4'	TBD	185.7'		175.1'	
DISPLACED THRESHOLD - LENGTH		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DISPLACED THRESHOLD - COORDINATES (NAD 83)	LAT. LONG.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DISPLACED THRESHOLD - ELEVATION (NAVD 88)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RUNWAY LIGHTING		HIRL	SAME	HIRL	SAME	MIRL	SAME	MIRL	SAME
RUNWAY PROTECTION ZONE (RPZ)		1,000' x 2,500' x 1,750'	SAME	500' x 1,700' x 1,010'	SAME	500' x 1,000' x 700'	SAME	500' x 1,000' x 700'	SAME
RUNWAY MARKING		PRECISION		NON-PRECISION		NON-PRECISION		NON-PRECISION	
14 CFR PART 77 APPROACH TYPE		50:1		34:1		34:1			
14 CFR APPROACH TYPE		PRECISION		NON-PRECISION		NON-PRECISION			
VISIBILITY MINIMUMS		1/2 SM		1 SM		1 SM			
AERONAUTICAL SURVEY		VERTICALLY GUIDED		VERTICALLY GUIDED		VERTICALLY GUIDED		VERTICALLY GUIDED	
RUNWAY DEPARTURE SURFACE		YES	SAME	YES	SAME	YES	SAME	YES	SAME
RUNWAY SAFETY AREA (RSA)	WIDTH	500'		500'		150'		150'	
	LENGTH BEYOND RWY END	1,000'		1,000'		300'		300'	
RUNWAY OBJECT FREE AREA (ROFA)	WIDTH	800'	SAME	800'	SAME	500'	SAME	500'	SAME
	LENGTH BEYOND RWY END	1,000'		1,000'		300'		300'	
RUNWAY OBSTACLE FREE ZONE (ROFZ)	WIDTH	400'	SAME	400'	SAME	400'	SAME	400'	SAME
	LENGTH BEYOND RWY END	200'		200'		200'		200'	
PRECISION OBSTACLE FREE ZONE (POFZ)	WIDTH	800'	SAME	N/A	SAME	N/A	SAME	N/A	SAME
	LENGTH BEYOND RWY END	200'		N/A		N/A		N/A	
APPROACH SURFACE		30:1 (SURFACE 6) ¹	SAME	20:1 (SURFACE 4) ¹	SAME	30:1 (SURFACE 6) ¹	SAME	20:1 (SURFACE 4) ¹	SAME
VISUAL AND INSTRUMENT NAVAIDS		ILS, LOC, GS, PAPI, MALSR, RNAV (GPS)		PAPI, MALSF, RNAV (GPS)		PAPI, REILS, RNAV (GPS)		PAPI, REILS, RNAV (GPS)	
CRITICAL AIRCRAFT		GULFSTREAM G500	B737-800	GULFSTREAM G500	B737-800	CITATION SOVEREIGN	CITATION SOVEREIGN	CITATION SOVEREIGN	CITATION SOVEREIGN
TOUCH-DOWN ZONE ELEVATION (NAVD 88)		192.2'	SAME	177.5'	SAME	185.7'	SAME	181.3'	SAME

1. TABLE 3-2, TABLE 3-3 OR TABLE 3-4, AC 150/5300-13B
2. RUNWAYS MEET LINE OF SIGHT REQUIREMENTS.
3. SEE SHEETS 8-13 FOR APPROACH SURFACE PENETRATIONS.

GENERAL NOTES

- ALL COORDINATES ARE IN NORTH AMERICAN DATUM OF 1983 (NAD 83).
- ALL ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ALL ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL (MSL).

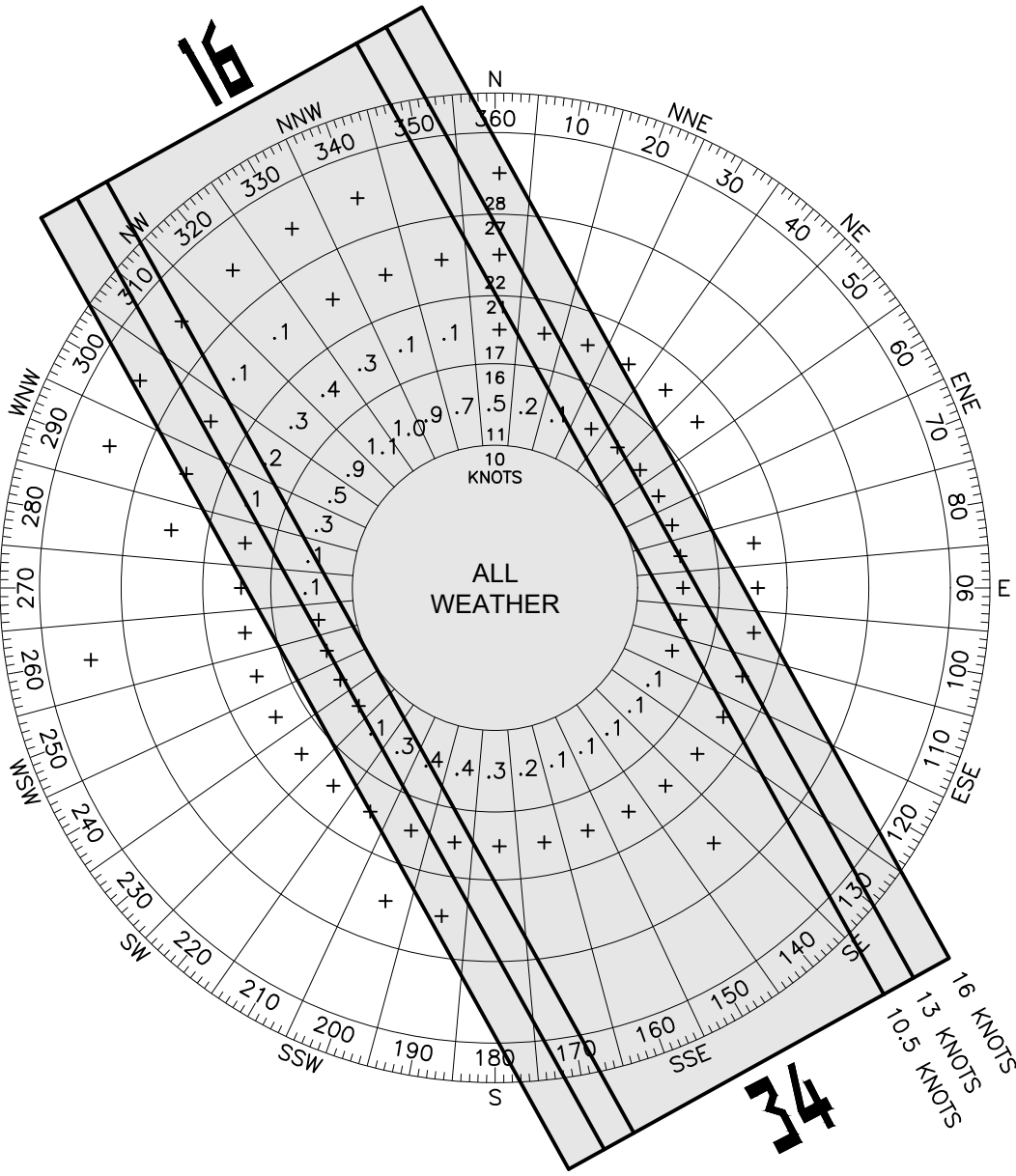
ABBREVIATIONS:

ADG AIRPLANE DESIGN GROUP
AGL ABOVE GROUND LEVEL
ARP AIRPORT REFERENCE POINT
ASDA ACCELERATE STOP DISTANCE AVAILABLE
AWOS AUTOMATED WEATHER OBSERVING SYSTEM
D DUAL WHEEL (AIRCRAFT LANDING GEAR)
GPS GLOBAL POSITIONING SYSTEM
GS GLIDESLOPE
HIRL HIGH INTENSITY RUNWAY LIGHTS
IFR INSTRUMENT FLIGHT RULES
ILS INSTRUMENT LANDING SYSTEM
LDA LANDING DISTANCE AVAILABLE
LOC LOCALIZER
MALSR MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS
MALSF MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH SEQUENCED FLASHERS
MIRL MEDIUM INTENSITY RUNWAY LIGHTS
MITL MEDIUM INTENSITY TAXIWAY LIGHTS
NGS NATIONAL GEODETIC SURVEY
NP NON-PRECISION
PAPI PRECISION APPROACH PATH INDICATOR
PCR PAVEMENT CONDITION RATING
PIR PRECISION INSTRUMENT RUNWAY
RNAV AREA NAVIGATION
S SINGLE WHEEL (AIRCRAFT LANDING GEAR)
TDG TAXIWAY DESIGN GROUP
TDZ TOUCHDOWN ZONE
TODA TAKEOFF DISTANCE AVAILABLE
TORA TAKEOFF RUN AVAILABLE

- (E) EXISTING CONDITIONS
(F) FUTURE CONDITIONS (1-20 YEARS)
(U) ULTIMATE CONDITIONS (20+ YEARS)

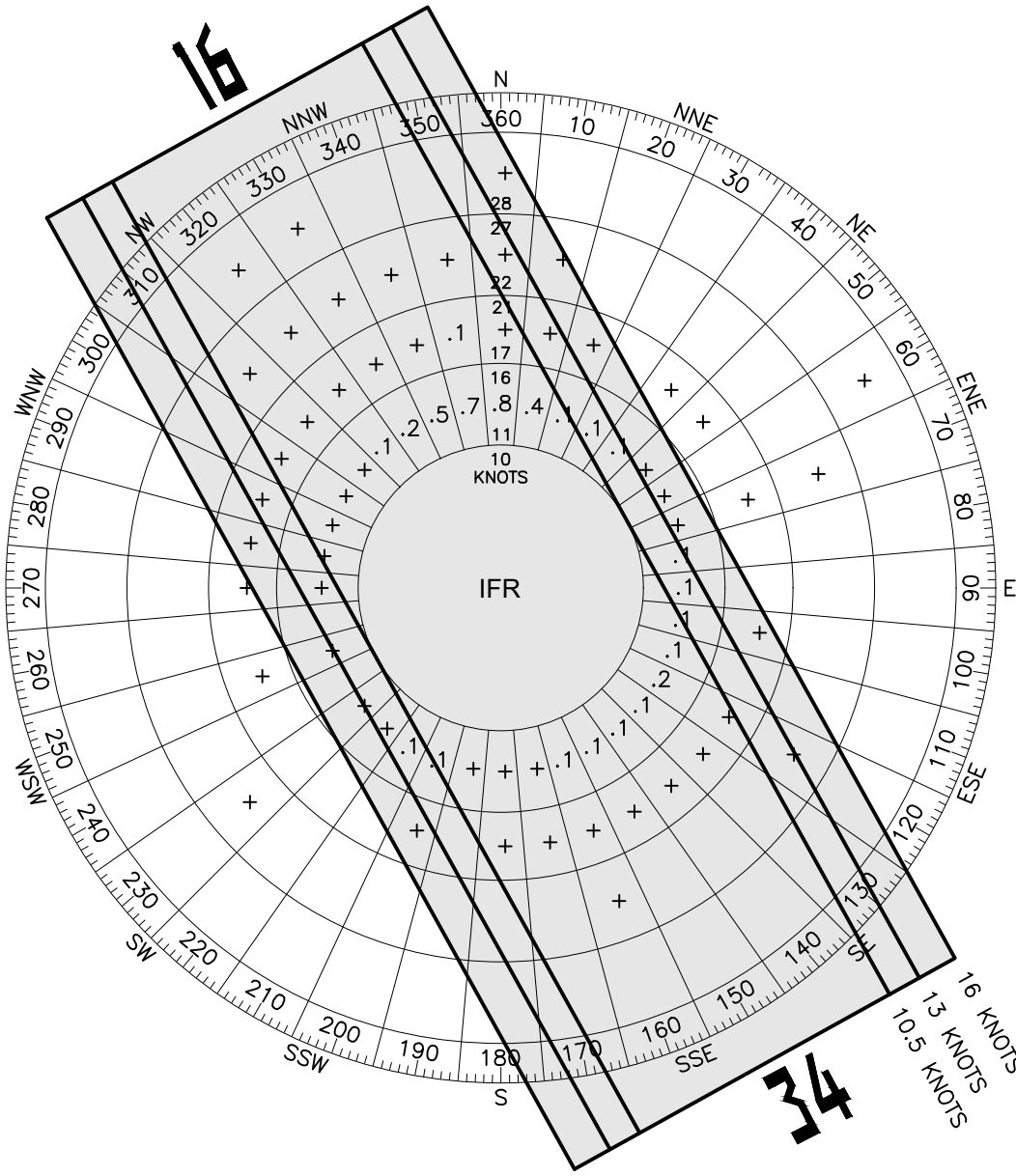
DATA SOURCE: NOAA NATIONAL CLIMATIC DATA CENTER
STATION: 724036 MANASSAS REGIONAL AIRPORT AWOS III/P/T
DATA RANGE: 2011-2020

AIRPORT REFERENCE CODE (ARC): C-III



ALL WEATHER WIND DATA			
RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
RUNWAY 16-34	98.69%	99.53%	99.92%

ALL WEATHER OBSERVATIONS: 147,512



IFR WIND DATA			
RUNWAY	10.5 KNOTS	13 KNOTS	16 KNOTS
RUNWAY 16-34	99.31%	99.69%	99.92%

IFR OBSERVATIONS: 17,882

TAXIWAY / TAXILANE DATA TABLE									
	TWY A (B/W TWY A1 AND TWY A2)	TWY A (SOUTH OF TWY A2)	TWY A RUNWAY CONNECTORS	TWY Q	TWY R	TWY S	TWY T	TWY U	TLN W
TAXIWAY / TAXILANE WIDTH	52' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)	35' (TDG 2B)
TAXIWAY EDGE SAFETY MARGIN	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
TAXIWAY / TAXILANE SAFETY AREA	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)	79' (ADG II)
OBJECTS WITHIN TSA	NONE	NONE	NONE	N/A	N/A	N/A	N/A	N/A	N/A
TAXIWAY / TAXILANE OBJECT FREE AREA	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)	124' (ADG II)
OBJECTS WITHIN TOFA	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
RUNWAY HOLDING POSITION	N/A	N/A	200'	200'	200'	200'	200'	200'	N/A
TAXIWAY / TAXILANE LIGHTING	MITL	MITL	MITL	MITL	MITL	MITL	MITL	MITL	N/A

TAXIWAY / TAXILANE DATA TABLE									
	TWY B (NORTH OF TWY B4)	TWY B (SOUTH OF TWY B4)	TWY B1	TWY B2	TWY B3	TWY B4	TWY B5	TWY B6	TLN C
TAXIWAY / TAXILANE WIDTH	40' (TDG 3)	55' (TDG 3)	40' (TDG 3)	61' (TDG3)	50' (TDG 3)	50' (TDG 3)	75' (TDG3)	70' (TDG 3)	50' (TDG 3)
TAXIWAY EDGE SAFETY MARGIN	10'	10'	10'	10'	10'	10'	10'	10'	10'
TAXIWAY / TAXILANE SAFETY AREA	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)
OBJECTS WITHIN TSA	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
TAXIWAY / TAXILANE OBJECT FREE AREA	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)
OBJECTS WITHIN TOFA	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
RUNWAY HOLDING POSITION	N/A	N/A	N/A	250'	272'	268'	250'	250'	N/A
TAXIWAY / TAXILANE LIGHTING	MITL	MITL	MITL	MITL	MITL	MITL	MITL	MITL	MITL

TAXIWAY / TAXILANE DATA TABLE								
	TLN D	TLN E	TLN G	TLN H	TWY K	TWY V	TLN Y	TLN Z
TAXIWAY / TAXILANE WIDTH	50' (TDG 3)	50' (TDG 3)	100' (TDG 2B)	75' (TDG 2B)	50' (TDG 2B)	40' (TDG 2B)	50' (TDG 2B)	50' (TDG 3)
TAXIWAY EDGE SAFETY MARGIN	10'	10'	7.5'	7.5'	7.5'	7.5'	7.5'	10'
TAXIWAY / TAXILANE SAFETY AREA	118' (ADG III)	118' (ADG III)	118' (ADG III)	118' (ADG III)	79' (ADG II)	79' (ADG II)	118' (ADG III)	118' (ADG III)
OBJECTS WITHIN TSA	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
TAXIWAY / TAXILANE OBJECT FREE AREA	171' (ADG III)	171' (ADG III)	171' (ADG III)	171' (ADG III)	124' (ADG II)	124' (ADG II)	158' (ADG III)	158' (ADG III)
OBJECTS WITHIN TOFA	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
RUNWAY HOLDING POSITION	N/A	N/A	N/A	N/A	200' RWY 34L 250' RWY 34R	200' RWY 16R 250' RWY 16L	N/A	N/A
TAXIWAY / TAXILANE LIGHTING	MITL	MITL	MITL	MITL	MITL	MITL	MITL	MITL