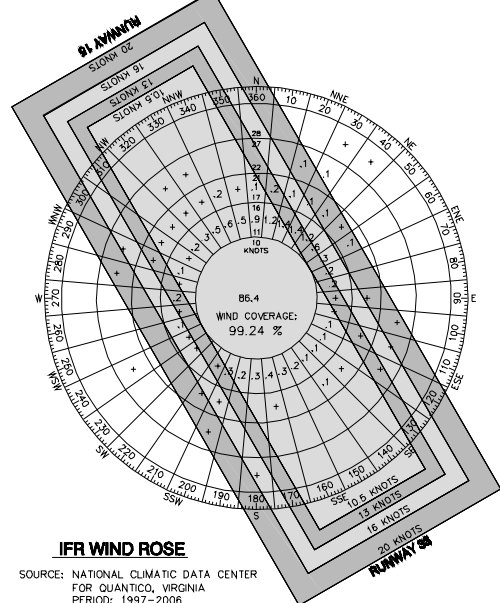


ALL WEATHER WIND ROSE

SOURCE: NATIONAL CLIMATIC DATA CENTER FOR QUANTICO, VIRGINIA PERIOD: 1997-2006

CROSSWIND COVERAGE	KNOTS	PERCENT
	10.5	95.80%
	13	97.98%
	16	99.54%
	20	99.89%



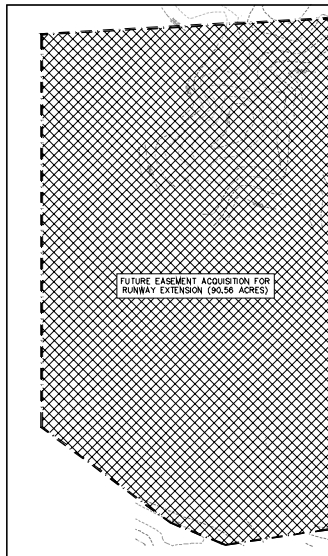
IFR WIND ROSE

SOURCE: NATIONAL CLIMATIC DATA CENTER FOR QUANTICO, VIRGINIA PERIOD: 1997-2006

CROSSWIND COVERAGE	KNOTS	PERCENT
	10.5	94.14%
	13	97.14%
	16	99.24%
	20	99.73%



MAGNETIC VARIATION 10.35° WEST
NOAA GEOMAGNETIC FIELD SYNTHESIS PROGRAM JULY 2011



INSET "A"

EXISTING APPROACH VISIBILITY MINIMUMS

RNAV (GPS) RWY 33	ABC	D	
	450-3/4	450-1	
LOC RWY 33	ABC	D	
	580-3/4	580-1 1/4	
VOR RWY 33	AB	C	D
	740-3/4	740-1 1/2	740-1 3/4
ILS RWY 33	ABCD		
	596-3/4		

DEVELOPMENT STAGES

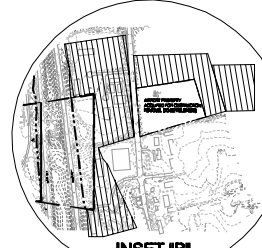
PHASE	PERIOD	STATUS
PHASE I	2011-2015	Green
PHASE II	2016-2020	Yellow
PHASE III	2021-2030	Pink
ULTIMATE	BEYOND 2030	Blue

RUNWAY DATA TABLE

ITEM	RUNWAY 15-33			
	EXISTING		PROPOSED	
RUNWAY DIMENSIONS	5,000' X 100'		6,000' X 100'	
RUNWAY END COORDINATES	LAT N 38° 23' 53.2" LONG W 77° 27' 19.7"		LAT N 38° 23' 56.88" LONG W 77° 27' 23.81"	
RUNWAY END ELEVATION	211.2'		219.2'	
RUNWAY HIGH POINT	211.2'		219.2'	
RUNWAY LOW POINT	171.2'		171.2'	
TOUCHDOWN ZONE ELEVATION	211.2'		219.2'	
RSA DIMENSIONS	7,000' X 500'		8,000' X 500'	
ROFA DIMENSIONS	7,000' X 800'		8,000' X 800'	
ROFZ DIMENSIONS	5,400' X 400'		6,400' X 400'	
INNER APPROACH ROFZ DIMENSIONS	1,379' X 400'		1,379' X 400'	
PRECISION OFZ DIMENSIONS	NONE		200' X 800'	
FAA PART 77 CATEGORY/APPROACH SLOPE	RW 15 RW 33 VISUAL PRECISION 20:1 50:1/40:1		RW 15 RW 33 VISUAL PRECISION 24:1 50:1/30:1	
RUNWAY BLAST PAD	NONE		150' X 120'	
EFFECTIVE GRADIENT (%)	0.8%		0.8%	
MAXIMUM RUNWAY GRADIENT (%)	0.8%		0.8%	
ALL WEATHER PERCENT WIND COVERAGE, (16 KNOTS)	99.54%		99.54%	
IFR PERCENT WIND COVERAGE, (16 KNOTS)	99.24%		99.24%	
INSTRUMENT RUNWAY	33 - ILS		33 - ILS	
PAVEMENT TYPE	ASPHALT		ASPHALT	
PAVEMENT STRENGTH/GEAR CONFIGURATION	30,000 lbs SW 70,000 lbs DW		30,000 lbs SW 70,000 lbs DW	
PAVEMENT CONDITION NUMBER	78.4/T/A/W/U		78.4/T/A/W/U	
APPROACH SURFACES (INNER WIDTH X LENGTH X OUTER WIDTH)	1,000' X 5,000' X 16,000'		1,000' X 5,000' X 16,000'	
RUNWAY LIGHTING	HRL		HRL	
RUNWAY MARKING	PRECISION		PRECISION	
ELECTRONIC & VISUAL APPROACH AIDS	LS/DME, MALSF, PAPI		ILS/DME, MALSR, PAPI	
APPROACH VISIBILITY MINIMUMS	396'-3/4 MILE		396'-1/2 MILE	
INSTRUMENT DEPARTURE RUNWAY	15-33		SAME	

LEGEND

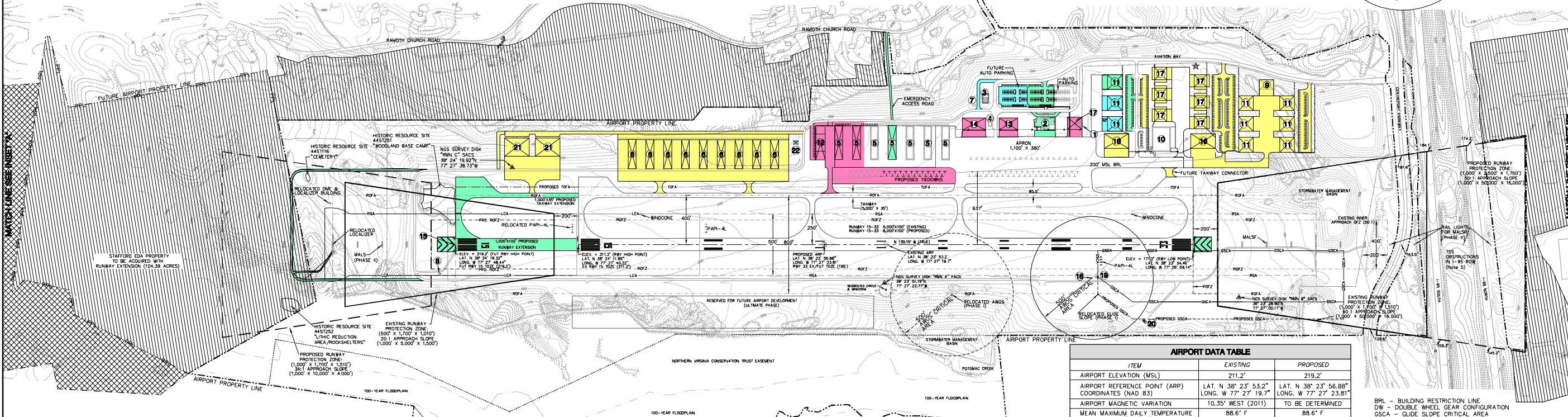
	EXISTING	PROPOSED
AIRPORT REFERENCE POINT (ARP)	⊙	⊙
AIRPORT PROPERTY LINE	---	---
AVIGATION EASEMENTS		
RUNWAY PROTECTION ZONE	---	---
RUNWAY SAFETY AREA (RSA)	---	---
GLIDE SLOPE CRITICAL AREA	---	---
LOCALIZER CRITICAL AREA	---	---
RUNWAY OBJECT FREE AREA (ROFA)	---	---
TAXIWAY OBJECT FREE AREA (TOFA)	---	---
RUNWAY OBSTACLE FREE ZONE (OFZ)	---	---
BUILDINGS	▭	▭
FENCE	---	---
TREE LINE	---	SAME
WATER/FLOODPLAIN	---	---
PAPI	⊙	⊙
ROTATING BEACON	★	NOT APPLICABLE
ODALS	⊙	⊙
REIL	---	---
THRESHOLD LIGHTS	---	---
MALS / MALSF	---	---
FLOOD LIGHTING	⊙	⊙
MONUMENTS (PACS & SACS)	▲	▲



INSET "B"

RUNWAY 33 APPROACH EXISTING AVIGATION EASEMENT DETAIL (1"=1,333')

TSS OBSTRUCTIONS TO BE REMOVED (NOTE 5)



- NOTES:**
- ALL COORDINATE DATA GIVEN IN NAD 83 AND NGVD 88 GEOGRAPHIC COORDINATES.
 - TERMINAL AREA AIRPORT REFERENCE CODE (ARC) DESIGN STANDARDS SHOWN ON TERMINAL AREA PLAN (SHEET 3).
 - ALL ELEVATIONS ARE MSL UNLESS NOTED OTHERWISE.
 - NO OBSTACLE FREE ZONE PENETRATIONS.
 - RUNWAY 15 - NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS. RUNWAY 33 - EXISTING/PROPOSED THRESHOLD SITING SURFACE OBJECT PENETRATIONS WILL BE MITIGATED VIA TREE REMOVAL.
 - RIGHT TRAFFIC PATTERN FOR RUNWAY 15 OPERATIONS.

RUNWAY PROTECTION ZONE (RPZ)

RUNWAY	INNER WIDTH (W ₁)	LENGTH (L)	OUTER WIDTH (W ₂)	RPZ ACRES	PROPERTY OWNERSHIP	APPROACH CATEGORY	CONT. APPROACH VIS. MINIMUMS	APPROACH TYPE
15 EXISTING	500'	1,700'	1,010'	29.465	FEE	ALL AIRCRAFT	VISUAL	VISUAL
15 PROPOSED	1,000'	1,700'	1,510'	48.978	FEE	ALL AIRCRAFT	3/4 MILE	NONPRECISION (RNAV)
33 EXISTING	1,000'	1,700'	1,510'	48.978	FEE, NON-AIRPORT	ALL AIRCRAFT	3/4 MILE	PRECISION (LS)
33 PROPOSED	1,000'	2,500'	1,750'	78.914	FEE, NON-AIRPORT	ALL AIRCRAFT	1/2 MILE	PRECISION (LS)

RPZ NOMENCLATURE (W₁ X L X W₂)

AIRPORT FACILITIES INDEX

NO.	FACILITY	DEVELOPMENT STAGE	TOP ELEVATION FEET MSL	NO.	FACILITY	DEVELOPMENT STAGE	TOP ELEVATION FEET MSL
1	TERMINAL BUILDING	EXISTING	201'	12	PROPOSED BOX HANGARS (4)	PHASE II	220'
2	TERMINAL BUILDING	PHASE I	215'	13	PROPOSED 100' X 150' MAINT. HANGAR	PHASE II	224'
3	FUEL FARM	EXISTING	201'	14	PROPOSED 100' X 190' FLIGHT SCHOOL	PHASE II	224'
4	LIFE/EVAC OPERATIONS BUILDING	EXISTING	203'	15	LOCALIZER ANTENNA (LPD 8-ELEMENT)	EXISTING	225'
5	10-UNIT T-HANGARS	EXISTING, I	215'	16	PROPOSED 120' X 200' HANGAR	ULTIMATE	210'
6	8-UNIT T-HANGARS	ULTIMATE	220'	17	PROPOSED 120' X 100' HANGAR	II & ULTIMATE	218'
7	AIRFIELD ELECTRICAL VAULT	EXISTING	202'	18	AWOS III-PT	EXISTING	186'
8	DME / LOCALIZER BUILDING	EXISTING	223'	19	GLIDE SLOPE ANTENNA (NULL REFERENCE)	EXISTING	186'
9	PROPOSED 80' X 115' HANGAR	ULTIMATE	210'	20	3 2,000 GALLON SEPTIC STORAGE TANKS	EXISTING	170'
10	200' X 150' HANGAR	EXISTING	218'	21	PROPOSED 150' X 200' HANGAR	ULTIMATE	230'
11	PROPOSED 120' X 120' HANGAR	I, III, ULT.	210'	22	PROPOSED AIRPORT STORAGE BUILDING	PHASE I	230'

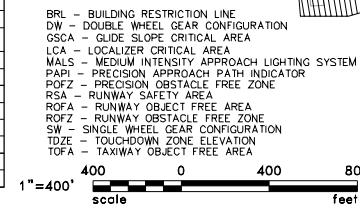
AIRPORT DATA TABLE

ITEM	EXISTING	PROPOSED
AIRPORT ELEVATION (MSL)	211.2'	219.2'
AIRPORT REFERENCE POINT (ARP) COORDINATES (NAD 83)	LAT. N 38° 23' 53.2" LONG. W 77° 27' 19.7"	LAT. N 38° 23' 56.88" LONG. W 77° 27' 23.81"
AIRPORT MAGNETIC VARIATION	10.35° WEST (2011)	TO BE DETERMINED
MEAN MAXIMUM DAILY TEMPERATURE	88.6° F	88.6° F
AIRPORT AND TERMINAL NAVAIDS	LS-CAT, RNAV, AWOS-II ROTATING BEACON	LS-CAT, RNAV, AWOS-II ROTATING BEACON
RUNWAY DESIGN CODE (RDC)	C=I	C=I
AIRPORT CRITICAL AIRCRAFT	CHALLENGER 605	CHALLENGER 605
CRITICAL AIRCRAFT HAUL LENGTH	2,500 NAUTICAL MILES	3,700 NAUTICAL MILES
NPIAS SERVICE LEVEL	R (RELIEVER)	R (RELIEVER)
VIRGINIA AIRPORT SERVICE ROLE	RL (RELIEVER)	RL (RELIEVER)
TAXIWAY LIGHTING	MITL	MITL
TAXIWAY HOLDLINES	250'	250'

FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF FACILITIES DEPICTED, DURING THE PRELIMINARY DESIGN PHASE. THE AIRPORT OWNER IS REQUIRED TO RESUBMIT FOR APPROVAL THE FINAL LOCATIONS, HEIGHTS AND EXTERIOR FINISHES OF STRUCTURES. FAA'S CONCERNS ARE OBSTRUCTIONS, IMPACT ON ELECTRONIC AIDS AND ADVERSE EFFECT OF CONTROLLER VIEW OF AIRCRAFT APPROACHES AND GROUND MOVEMENTS, WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY OR UTILITY OF THE AIRPORT.

MODIFICATIONS TO FAA DESIGN STANDARDS

NO.	MODIFICATION	WAIVER	DATE



APPROVAL BLOCK

Stafford Regional Airport Authority	Date
Federal Aviation Administration	Date
Virginia Department of Aviation	Date

TALBERT & BRIGHT
ENGINEERING & PLANNING CONSULTANTS
1000 W. MARKET STREET, SUITE 1100
FALLS CHURCH, VA 22033
PHONE: 804-765-6678 FAX: 804-765-6671

REV. NO.	DESCRIPTION	REVISIONS

AIRPORT LAYOUT PLAN
Stafford Regional Airport - Stafford, Virginia

FINAL

Date: APRIL 2013
Scale: 1"=400'
Drawn: REK
Checked: JAW
Project No.: 3812-0802
Sheet No.: 2
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