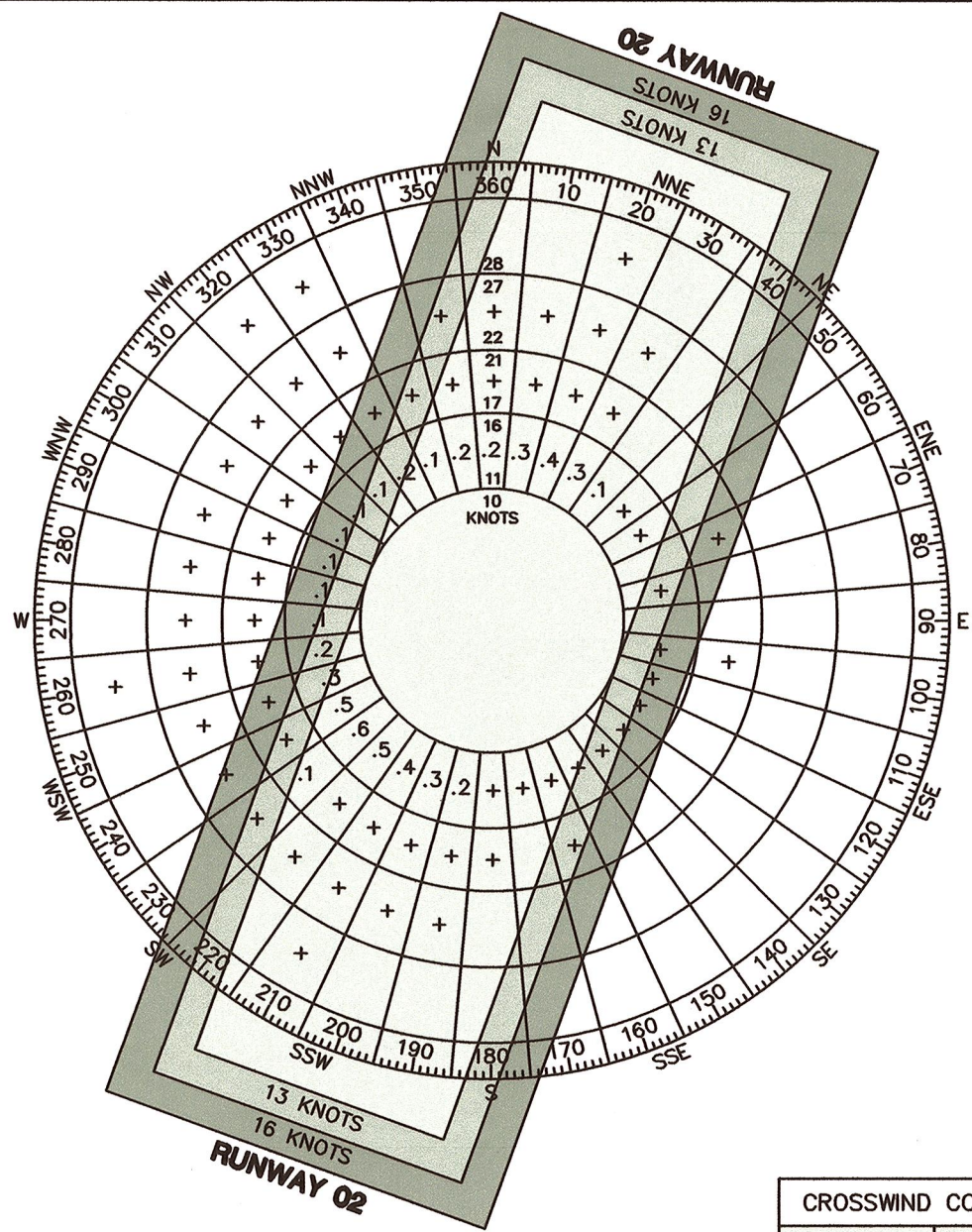




ALL WEATHER WIND ROSE

SOURCE: NDC - FAA WIND DATA
STATION: ROCK HILL-YORK COUNTY AIRPORT
PERIOD: 2006-2015

CROSSWIND COVERAGE	KNOTS	RWY 02-20
10.5	98.66%	
13	99.40%	
16	99.87%	

CROSSWIND COVERAGE	KNOTS	RWY 02-20
10.5	99.19%	
13	99.56%	
16	99.83%	

IFR WIND ROSE

SOURCE: NDC - FAA WIND DATA
STATION: ROCK HILL-YORK COUNTY AIRPORT
PERIOD: 2006-2015

NO.	FACILITY
1	TERMINAL BUILDING
2	SKYTECH (FBO) MAINTENANCE HANGAR
3	SKYTECH (FBO) STORAGE HANGAR
4	FLY CAROLINA FLIGHT SCHOOL
5	BOX HANGAR
6	PORT-A-PORTS (TO BE REMOVED)
7	SHADE PORT
8	TAXIWAY 'J' T-HANGAR
9	TAXIWAY 'J' BOX HANGAR
10	PROPOSED 8-UNIT T-HANGAR
11	PROPOSED 6-UNIT T-HANGAR
12	PROPOSED 10-UNIT T-HANGAR
13	PROPOSED 60' X 60' BOX HANGAR
14	PROPOSED 80' X 80' BOX HANGAR
15	PROPOSED 100' X 120' BOX HANGAR
16	PROPOSED 80' X 100' BOX HANGAR

TAXIWAY DATA TABLE

ITEM	EXISTING	ULTIMATE
TAXIWAY AND TAXILANE WIDTH	35'	35'
TAXIWAY EDGE SAFETY MARGIN (TESM)	7.5'	7.5'
TAXIWAY SHOULDER WIDTH	15'	15'
TAXIWAY SAFETY AREA	79'	79'
TAXIWAY OBJECT FREE AREA	131'	131'
TAXILANE OBJECT FREE AREA	115'	115'
TAXIWAY LIGHTING	MITL	MITL
TAXIWAY SEPARATION		
TAXIWAY CENTERLINE TO PARALLEL TAXIWAY/TAXILANE CENTERLINE	105'	105'
TAXIWAY CENTERLINE TO FIXED OR MOVEABLE OBJECT	65.5'	65.5'
TAXILANE CENTERLINE TO PARALLEL TAXILANE CENTERLINE	97'	97'
TAXILANE CENTERLINE TO FIXED OR MOVEABLE OBJECT	57.5'	57.5'

APPROACH VISIBILITY MINIMUMS

	EXISTING	ULTIMATE
ILS Y OR LOC Y RWY 02	866' - 1/2 MILE	NO CHANGE
ILS Z OR LOC Z RWY 20	866' - 1/2 MILE	NO CHANGE
RNAV (GPS) RWY 02	866' - 1/2 MILE	NO CHANGE
RNAV (GPS) RWY 20	911' - 7/8 MILE	NO CHANGE

RUNWAY PROTECTION ZONE (RPZ)

RUNWAY	INNER WIDTH (W ₁)	LENGTH (L)	OUTER WIDTH (W ₂)	RPZ ACRES	INTEREST
02	1,000'	2,500'	1,750'	78.914	FEE
20	1,000'	1,700'	1,510'	48.978	FEE

AIRPORT DATA TABLE

ITEM	EXISTING	ULTIMATE
FAA ASSET CLASSIFICATION	NATIONAL/REGIONAL	NATIONAL/REGIONAL
STATE AIRPORT CLASSIFICATION	SC-II	SC-II
AIRPORT ELEVATION (MSL)	666.3' MSL	666.3' MSL
AIRPORT REFERENCE POINT (ARP) COORDINATES (NAD 83)	LAT. N 34° 59' 16.20" LONG. W 81° 03' 25.80"	LAT. N 34° 59' 21.04" LONG. W 81° 03' 24.62"
AIRPORT MAGNETIC VARIATION	7° 26' WEST (2014)	7° 26' WEST (2014)
MEAN MAXIMUM DAILY TEMPERATURE	86° F / AUGUST	86° F / AUGUST
AIRPORT NAVIGATIONAL AIDS	RWY 02-ILS RWY 02/20-GPS	RWY 02-ILS RWY 02/20-GPS
MISCELLANEOUS FACILITIES	LIGHTED WIND CONE, AWOS, BEACON	LIGHTED WIND CONE, AWOS, BEACON
RUNWAY DESIGN CODE (RDC)	B-II-2400	C-II-2400
AIRPORT CRITICAL AIRCRAFT	FALCON 2000 EX	CITATION X
NPIAS SERVICE LEVEL	G.A.	G.A.
RUNWAY LIGHTING	MIRL	MIRL
RUNWAY MARKING	PIR	PIR

DEVELOPMENT STAGES

PHASE I	2016-2021
PHASE II	2022-2026
PHASE III	2027-2035
PHASE IV	FUTURE

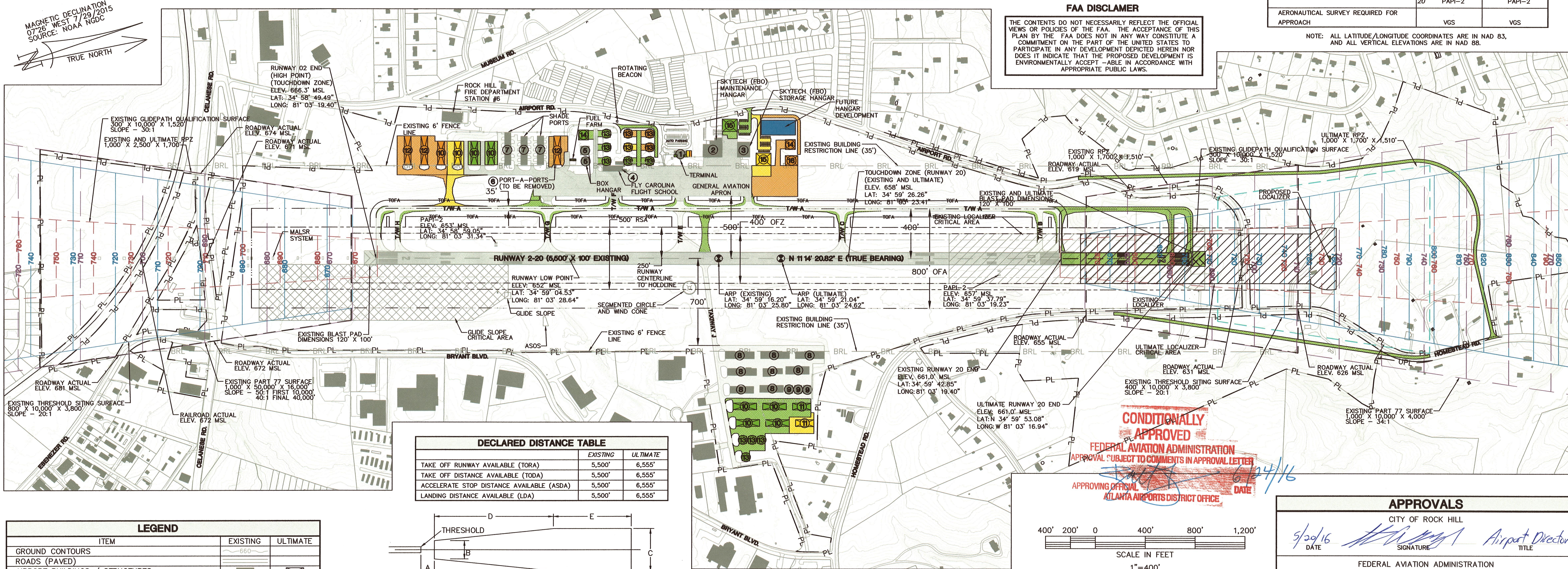
FAA DISCLAIMER

THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICIES OF THE FAA. THE ACCEPTANCE OF THIS PLAN BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED HEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

RUNWAY DATA TABLE

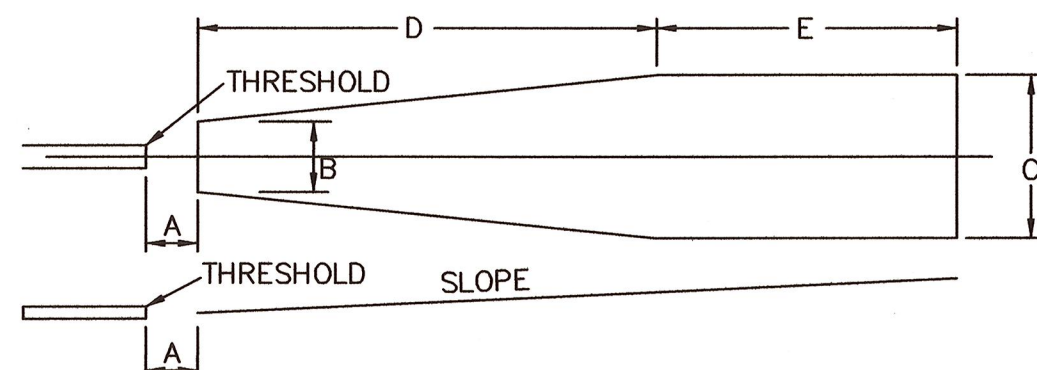
ITEM	EXISTING	ULTIMATE
RUNWAY DIMENSIONS	5,500' X 100'	6,555' X 100'
RUNWAY END COORDINATES	02 LAT. N 34° 59' 16.20" LONG. W 81° 03' 25.80"	02 LAT. N 34° 59' 21.04" LONG. W 81° 03' 24.62"
RUNWAY END ELEVATION	02 666.3'	666.3'
RUNWAY HIGH POINT	666.3' MSL	666.3' MSL
RUNWAY LOW POINT	652.0' MSL	652.0' MSL
TOUCHDOWN ZONE ELEVATION (TDZE)	666' MSL	658' MSL
RSA DIMENSIONS	6,700' X 300'	8,555' X 500'
ROFA DIMENSIONS	6,700' X 800'	8,555' X 800'
ROFZ DIMENSIONS	5,900' X 400'	6,955' X 400'
INNER APPROACH OFZ DIMENSIONS	RW 02-2,425' X 400'	RW 02-2,425' X 400'
PRECISION OFZ DIMENSIONS	200' X 800'	200' X 800'
RUNWAY PROTECTION ZONE DIMENSIONS	02 1,000' X 2,500' X 1,700'	1,000' X 2,500' X 1,700'
FAA PART 77 CATEGORY	RWY 02 - PIR	RWY 02 - PIR
PART 77 APPROACH SLOPES	RWY 02 - 50:1 RWY 20 - 34:1	RWY 02 - 50:1 RWY 20 - 34:1
RUNWAY BLAST PAD	02 100' X 120'	100' X 120'
EFFECTIVE GRADIENT (%)	0.096%	0.081%
ALL WEATHER		
PERCENT WIND COVERAGE, (16 KNOTS)	99.87%	99.87%
IFR		
PERCENT WIND COVERAGE, (16 KNOTS)	99.83%	99.83%
INSTRUMENT RUNWAYS	RWY 02-RNAV, ILS RWY 20-RNAV	RWY 02-RNAV, ILS RWY 20-RNAV
PAVEMENT TYPE	ASPHALT	ASPHALT
PAVEMENT CLASSIFICATION NUMBER (PCN)	30/F/C/X/T	30/F/C/X/T
APPROACH SURFACES	800' X 10,000' X 3,800' 400' X 10,000' X 3,800' 20:1 RUNWAY 02 20:1 RUNWAY 20	800' X 10,000' X 3,800' 400' X 10,000' X 3,800' 34:1 RUNWAY 02 20:1 RUNWAY 20
RUNWAY LIGHTING	RWY 02/20 - MIRL	RWY 02/20 - MIRL
RUNWAY MARKING	02-PI, 20-PI	02-PI, 20-PI
ELECTRONIC & VISUAL APPROACH AIDS	02 PAPI-2, MALSR ILS	PAPI-2, MALSR ILS
AERONAUTICAL SURVEY REQUIRED FOR APPROACH	VGS	VGS

NOTE: ALL LATITUDE/LONGITUDE COORDINATES ARE IN NAD 83, AND ALL VERTICAL ELEVATIONS ARE IN NAD 88.



DECLARED DISTANCE TABLE

	EXISTING	ULTIMATE
TAKE OFF RUNWAY AVAILABLE (TORA)	5,500'	6,555'
TAKE OFF DISTANCE AVAILABLE (TODA)	5,500'	6,555'
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	5,500'	6,555'
LANDING DISTANCE AVAILABLE (LDA)	5,500'	6,555'



THRESHOLD SITING REQUIREMENTS

R/W	A	B	C	D	E	SLOPE
02	200'	800'	3,800'	10,000'	0'	34:1
20	200'	400'	3,800'	10,000'	0'	20:1

R/W	A	B	C	D	E	SLOPE
02	0'	1,000'	6,466'	10,200'	0'	40:1
20	0'	1,000'	6,466'	10,200'	0'	40:1

MODIFICATION TO FAA DESIGN STANDARDS

NO.	MODIFICATION	WAIVER	DATE
1			
2			
3			

PLANNING DOCUMENT
NOT RELEASED FOR CONSTRUCTION

TALBERT, BRIGHT & ELLINGTON

ENGINEERING & PLANNING CONSULTANTS
3525 WHITEHALL PARK DRIVE, SUITE 210
CHARLOTTE, NORTH CAROLINA 28273
PHONE: 704-426-6070 FAX: 704-426-6080

DESIGNED BY: JEL
PROJECT ENG: CBS
PROJECT NO.: 3709-1402
DRAWN BY: MWP
CHECKED BY: CBS
DATE ISSUED: SEPT. 2015

REVISIONS
1 PROPOSED RUNWAY END COORDINATES
2 FAA AND SCAC COMMENTS
3
4
5

DATE
11/24/15
03/06/16

AIRPORT LAYOUT PLAN
AIRPORT LAYOUT PLAN UPDATE
AIRPORT LAYOUT PLAN UPDATE

SCALE: 1"=400'
FILE NAME: 1402-ALP.dwg

3
14