

REV. NO.	DESCRIPTION	DATE

**FUTURE AIRPORT LAYOUT PLAN
 AIRPORT MASTER PLAN
 UPDATE
 CHESTER MUNICIPAL AIRPORT**

2004

Designed	JEL
Date	MARCH 2004
Scale	1"=400'
Drawn	JMM
Checked	JAS
Project No.	222B-0302
Sheet No.	3

OF 10

ITEM	EXISTING		ULTIMATE	
	17-35	5-23	17-35	5-23
AIRPORT REFERENCE CODE	A-II	A-II	A-II	A-II
LENGTH x WIDTH	5,000'x100'	4,998'x150'	SAME	4,998' x 100'
EFFECTIVE GRADIENT	-0.41%	-0.43%	SAME	SAME
PAVEMENT SURFACE	ASPHALT	ASPHALT	SAME	SAME
PAVEMENT STRENGTH	30,000 SW	4,000 SW	???	34,000 DW
MARKING	NPI	BASIC	SAME	SAME
LIGHTING	MIRL	NONE	SAME	SAME
NAVAIDS, VISUAL AIDS	PAPI-2	NONE	SAME	SAME
RUNWAY 17 END ELEVATION	656.2	NONE	656.5	SAME
RUNWAY 35 END ELEVATION	635.7	NONE	636.0	SAME
RUNWAY 5 END ELEVATION		641.7	SAME	SAME
RUNWAY 23 END ELEVATION		620.3	SAME	SAME
% WIND COVERAGE (IFR)				
10.5 KNTS (12 MPH)	94.10%	97.96%	SAME	SAME
13.0 KNTS (15 MPH)	97.45%	96.31%	SAME	SAME
% WIND COVERAGE (VFR)				
10.5 KNTS (12 MPH)	96.57%	96.14%	SAME	SAME
13.0 KNTS (15 MPH)	98.52%	97.92%	SAME	SAME
APPROACH SLOPE	20:1	20:1	SAME	SAME
PART 77 APPROACH CATEGORY SLOPE	NPI	VISUAL	SAME	SAME
AIRPORT AND TERMINAL NAVAIDS				
VISUAL	ROT. BEACON LGT. WINDCONE SEG. CIRCLE, PAPI 2's		SAME	
AIRPORT AND TERMINAL NAVAIDS				
INSTRUMENT	VOR/DME-A NDB RWY-35 GPS RWY-17 GPS RWY-35		SAME	

RUNWAY	EXISTING/ULTIMATE	LATITUDE NORTH		LONGITUDE WEST	
		17	35	17	35
17	EXISTING	34°47'49.07"	81°12'01.42"		
17	ULTIMATE	SAME	SAME		
35	EXISTING	34°47'00.69"	81°11'49.00"		
35	ULTIMATE	SAME	SAME		
5	EXISTING	34°47'03.88"	81°11'58.76"		
5	ULTIMATE	SAME	SAME		
23	EXISTING	34°47'32.54"	81°11'09.94"		
23	ULTIMATE	SAME	SAME		

NOTE: ALL COORDINATES ARE BASED UPON NAD 83 DATA.

AIRPORT REFERENCE CODE (ARC) ITEMS	EXISTING		ULTIMATE	
	17-35	5-23	17-35	5-23
RUNWAY SAFETY AREA (RSA) WIDTH	150'	150'	SAME	SAME
RSA BEYOND R/W END	300'	300'	SAME	SAME
RUNWAY OBSTACLE FREE ZONE (OFZ) WIDTH	250'	250'	SAME	SAME
OFZ BEYOND R/W END	200'	200'	SAME	SAME
RUNWAY OBJECT FREE AREA (OFA) WIDTH	500'	500'	SAME	SAME
OFA BEYOND R/W END	300'	300'	SAME	SAME
RUNWAY CENTERLINE TO TAXIWAY CENTERLINE	250'	N/A	300'	SAME
RUNWAY CENTERLINE TO AIRCRAFT PARKING	400'	N/A	400'	SAME
TAXIWAY CENTERLINE TO AIRCRAFT PARKING	150'	N/A	100'	SAME

* ADDITIONAL ARC REQUIREMENTS SHOWN ON PLAN

ITEM	EXISTING		ULTIMATE	
	17-35	5-23	17-35	5-23
AIRPORT REFERENCE POINT (ARP COORDINATES)	34°47'21.57"	81°11'44.73"	SAME	SAME
ESTABLISHED AIRPORT ELEVATION (MEAN SEA LEVEL)	656.2'	656.5'	SAME	SAME
NORMAL MAXIMUM TEMPERATURE - HOTTEST MONTH	91°	91°	SAME	SAME
CRITICAL AIRCRAFT	DEHAVILLAND TWIN OTTER	CITATION EXCEL	SAME	SAME
AIRPORT REFERENCE CODE (ARC)	A-II	B-II	SAME	SAME
NPIAS SERVICE LEVEL	RL	SAME	SAME	SAME
TAXIWAY LIGHTING	MIRL	SAME	SAME	SAME

TAXIWAY	WIDTH
A	35'
B	35'
C	35'
D	35'
E	35'

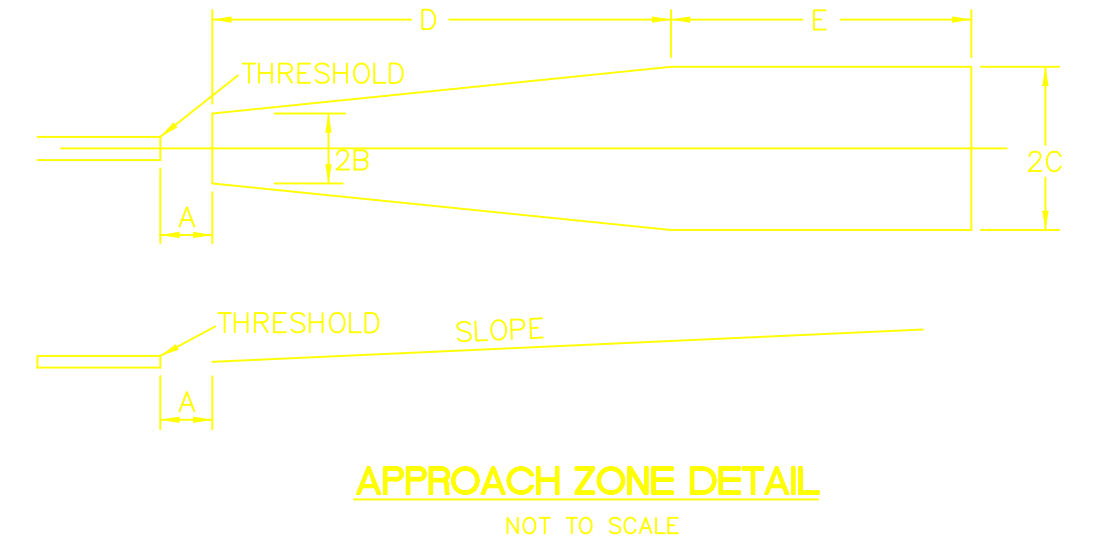
ITEM	EXISTING				FUTURE			
	RW-17	RW-35	RW-5	RW-23	RW-17	RW-35	RW-5	RW-23
APPROACH	NOT LOWER				SAME	SAME	SAME	SAME
VISIBILITY	THAN	VISUAL	VISUAL		SAME	SAME	SAME	SAME
MINIMUMS		3/4 MILE						

PHASE	PERIOD	STATUS
PHASE I	2004-2008	PLANNED
PHASE II	2009-2013	PLANNED
PHASE III	2014-2024	PLANNED
FUTURE	BEYOND 2024	PLANNED

ITEM	EXISTING	ULTIMATE
GROUND CONTOURS	660'	
WOODED AREA		
ROADS (PAVED)		
AIRPORT BUILDINGS / STRUCTURES		
AIRPORT PAVED AREAS		
AIRPORT PROPERTY LINE (PL)		
RUNWAY OBJECT FREE AREA		
RUNWAY SAFETY AREA		
RUNWAY OBSTACLE FREE ZONE		
BUILDING RESTRICTION LINE		

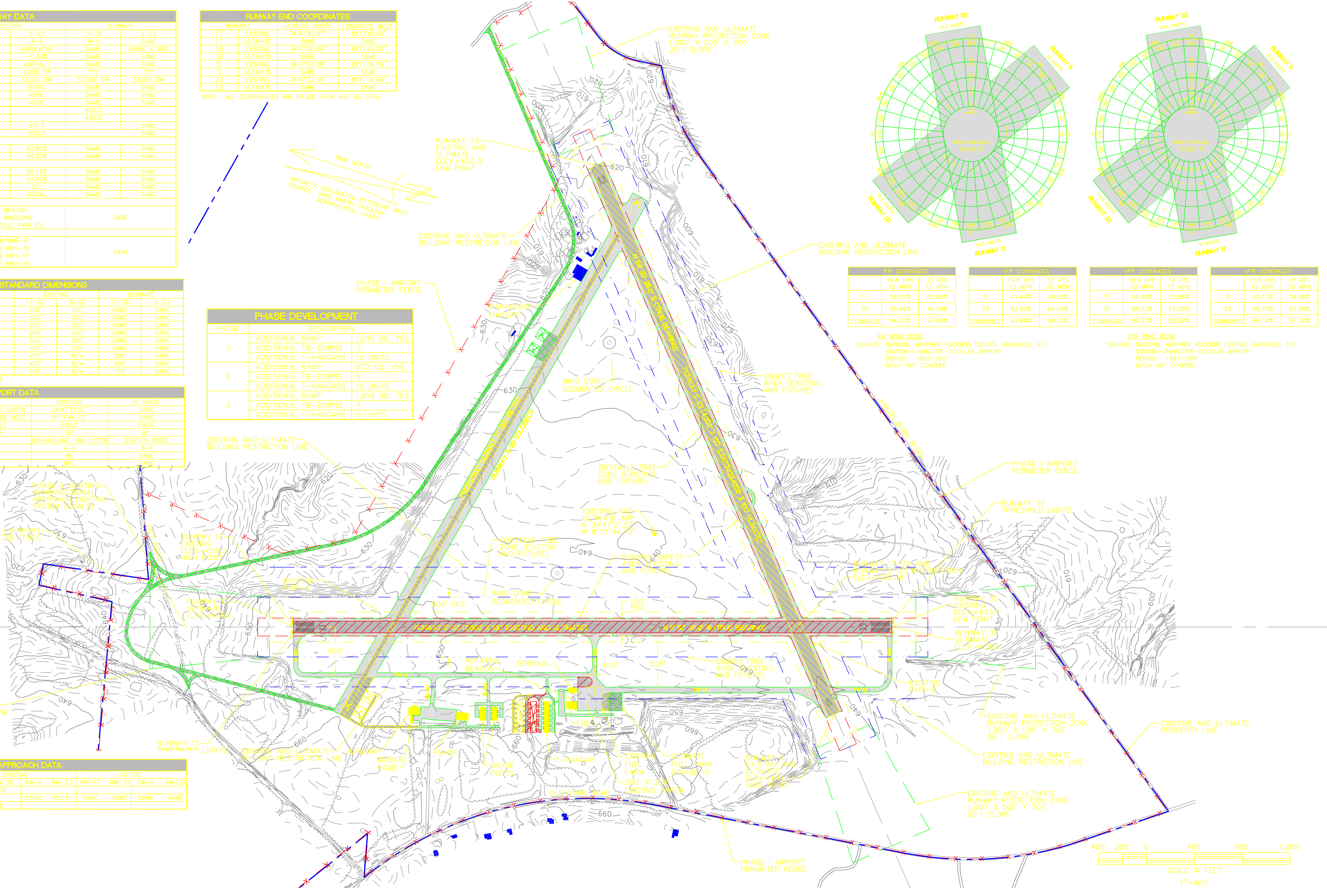
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APPROVALS		
CHESTER COUNTY AIRPORT COMMISSION		
DATE	SIGNATURE	TITLE
SOUTH CAROLINA DEPARTMENT OF COMMERCE DIVISION OF AERONAUTICS		
DATE	SIGNATURE	TITLE



DIMENSIONS	EXISTING			
	RW-17	RW-35	RW-5	RW-23
A	200'	200'	0'	0'
B	400'	400'	200'	200'
C	1,900'	1,900'	500'	500'
D	10,000'	10,000'	1,500'	1,500'
E	0'	0'	8,550'	8,550'
SLOPE	20:1	20:1	20:1	20:1

DIMENSIONS	FUTURE			
	RW-17	RW-35	RW-5	RW-23
A	SAME	SAME	SAME	SAME
B	SAME	SAME	SAME	SAME
C	SAME	SAME	SAME	SAME
D	SAME	SAME	SAME	SAME
E	SAME	SAME	SAME	SAME
SLOPE	SAME	SAME	SAME	SAME



RW	IFR COVERAGE		VFR COVERAGE	
	10.5 KTS 12 MPH	13 KTS 15 MPH	10.5 KTS 12 MPH	13 KTS 15 MPH
17	59.51%	61.60%	41.43%	48.99%
35	45.49%	46.76%	62.50%	64.66%
COMBINED	94.10%	97.45%	92.96%	96.31%

RW	IFR COVERAGE		VFR COVERAGE	
	10.5 KTS 12 MPH	13 KTS 15 MPH	10.5 KTS 12 MPH	13 KTS 15 MPH
17	54.69%	55.84%	54.13%	54.96%
35	56.52%	57.33%	56.70%	57.66%
COMBINED	96.57%	98.52%	96.14%	97.92%

IER WIND ROSE
 SOURCE: NATIONAL WEATHER RECORDS CENTER, ASHEVILLE, N.C.
 STATION-CHARLOTTE-DOUGLAS AIRPORT
 PERIOD: 1992-2001
 N/C= NOT COVERED

VER WIND ROSE
 SOURCE: NATIONAL WEATHER RECORDS CENTER, ASHEVILLE, N.C.
 STATION-CHARLOTTE-DOUGLAS AIRPORT
 PERIOD: 1992-2001
 N/C= NOT COVERED