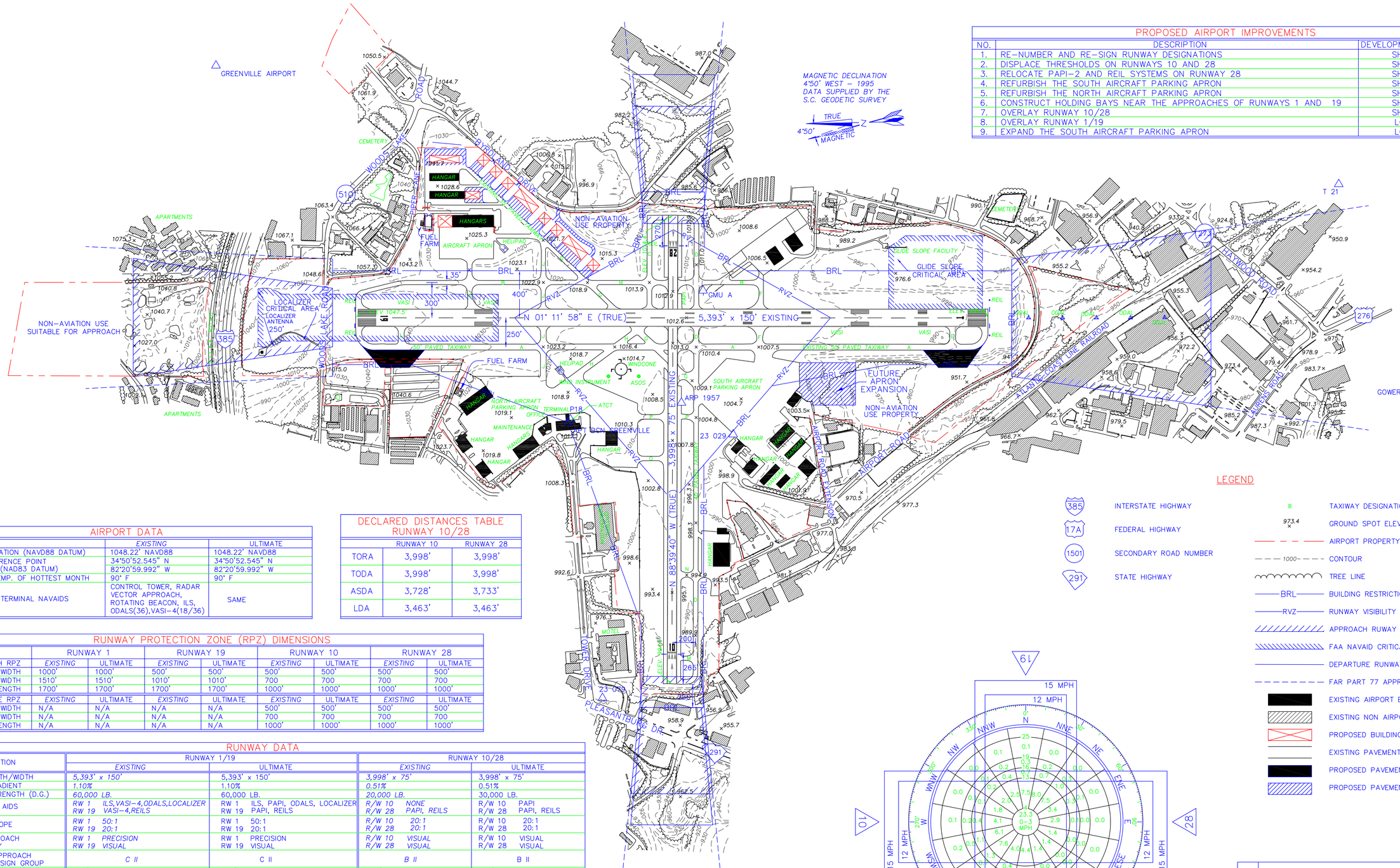


PROPOSED AIRPORT IMPROVEMENTS

NO.	DESCRIPTION	DEVELOPMENT TIME FRAME
1.	RE-NUMBER AND RE-SIGN RUNWAY DESIGNATIONS	SHORT TERM
2.	DISPLACE THRESHOLDS ON RUNWAYS 10 AND 28	SHORT TERM
3.	RELOCATE PAPI-2 AND REIL SYSTEMS ON RUNWAY 28	SHORT TERM
4.	REFURBISH THE SOUTH AIRCRAFT PARKING APRON	SHORT TERM
5.	REFURBISH THE NORTH AIRCRAFT PARKING APRON	SHORT TERM
6.	CONSTRUCT HOLDING BAYS NEAR THE APPROACHES OF RUNWAYS 1 AND 19	SHORT TERM
7.	OVERLAY RUNWAY 10/28	SHORT TERM
8.	OVERLAY RUNWAY 1/19	LONG TERM
9.	EXPAND THE SOUTH AIRCRAFT PARKING APRON	LONG TERM

AIRPORT DATA

	EXISTING	ULTIMATE
AIRPORT ELEVATION (NAVD88 DATUM)	1048.22' NAVD88	1048.22' NAVD88
AIRPORT REFERENCE POINT COORDINATES (NAD83 DATUM)	34°50'52.545" N 82°20'59.992" W	34°50'52.545" N 82°20'59.992" W
MEAN MAX. TEMP. OF HOTTEST MONTH	90° F	90° F
AIRPORT AND TERMINAL NAVAIDS	CONTROL TOWER, RADAR VECTOR APPROACH, ROTATING BEACON, ILS, ODALS(36),VASI-4(18/36)	SAME

DECLARED DISTANCES TABLE RUNWAY 10/28

	RUNWAY 10	RUNWAY 28
TORA	3,998'	3,998'
TODA	3,998'	3,998'
ASDA	3,728'	3,733'
LDA	3,463'	3,463'

RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS

	RUNWAY 1		RUNWAY 19		RUNWAY 10		RUNWAY 28	
APPROACH RPZ	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
INNER WIDTH	1000'	1000'	500'	500'	500'	500'	500'	500'
OUTER WIDTH	1510'	1510'	1010'	1010'	700	700	700	700
LENGTH	1700'	1700'	1700'	1700'	1000'	1000'	1000'	1000'
DEPARTURE RPZ	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
INNER WIDTH	N/A	N/A	N/A	N/A	500'	500'	500'	500'
OUTER WIDTH	N/A	N/A	N/A	N/A	700	700	700	700
LENGTH	N/A	N/A	N/A	N/A	1000'	1000'	1000'	1000'

RUNWAY DATA

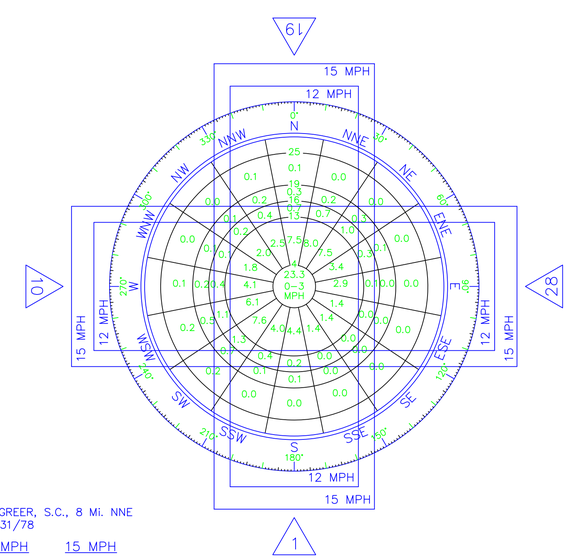
DESCRIPTION	RUNWAY 1/19 EXISTING	RUNWAY 1/19 ULTIMATE	RUNWAY 10/28 EXISTING	RUNWAY 10/28 ULTIMATE
RUNWAY LENGTH/WIDTH	5,393' x 150'	5,393' x 150'	3,998' x 75'	3,998' x 75'
EFFECTIVE GRADIENT	1.10%	1.10%	0.51%	0.51%
PAVEMENT STRENGTH (D.G.)	60,000 LB.	60,000 LB.	20,000 LB.	30,000 LB.
NAVIGATIONAL AIDS	RW 1 ILS,VASI-4,ODALS,LOCALIZER RW 19 VASI-4,REILS	RW 1 ILS, PAPI, ODALS, LOCALIZER RW 19 PAPI, REILS	R/W 10 NONE R/W 28 PAPI, REILS	R/W 10 PAPI R/W 28 PAPI, REILS
APPROACH SLOPE	RW 1 50:1 RW 19 20:1	RW 1 50:1 RW 19 20:1	R/W 10 20:1 R/W 28 20:1	R/W 10 20:1 R/W 28 20:1
RUNWAY APPROACH CATEGORY	RW 1 PRECISION RW 19 VISUAL	RW 1 PRECISION RW 19 VISUAL	R/W 10 VISUAL R/W 28 VISUAL	R/W 10 VISUAL R/W 28 VISUAL
AIRCRAFT APPROACH CATEGORY/ DESIGN GROUP	C II	C II	B II	B II
OBJECT FREE AREA WIDTH	800'	800'	500'	500'
OBJECT FREE AREA LENGTH	230' BEYOND RUNWAY END	230' BEYOND RUNWAY END	30' BEYOND RUNWAY END	35' BEYOND RUNWAY END
RUNWAY SAFETY AREA WIDTH	400'	400'	150'	150'
RUNWAY SAFETY AREA LENGTH	230' BEYOND RUNWAY END	230' BEYOND RUNWAY END	30' BEYOND RUNWAY END	35' BEYOND RUNWAY END
RUNWAY LIGHTING	HIRL	HIRL	MIRL	MIRL
RUNWAY MARKING (2)	PREC. INST.	PREC. INST.	BASIC	BASIC
% WIND COVERAGE	96.5%	96.5%	97%	97%
PAVEMENT TYPE	ASPHALT	ASPHALT	ASPHALT	ASPHALT
THRESHOLD COORDINATES (NAD83 DATUM) R/W 1	34°50'25.801" N 82°20'54.919" W	34°50'25.801" N 82°20'54.919" W	R/W 10: 34°50'53.074" N 82°21'29.745" W	R/W 10: 34°50'53.074" N 82°21'29.745" W
THRESHOLD COORDINATES (NAD83 DATUM) R/W 19	34°51'19.134" N 82°20'53.564" W	34°51'19.134" N 82°20'53.564" W	R/W 28: 34°50'52.227" N 82°20'45.931" W	R/W 28: 34°50'52.227" N 82°20'45.931" W

NOTES:

(1) NOTE DISPLACED THRESHOLDS ON RUNWAYS 10 AND 28.
(2) THRESHOLD AND ARP COORDINATES WERE CONVERTED FROM NAD27 TO NAD83 WITH THE CORPSON COMPUTER PROGRAM SUPPLIED BY THE NATIONAL GEODETIC SURVEY.
(3) PHOGRAMMETRY AND PHOTOGRAPHY USED IN THE PREPARATION OF THIS AIRPORT LAYOUT PLAN WERE FURNISHED BY THE SC DEPARTMENT OF COMMERCE DIVISION OF AERONAUTICS.

LEGEND

- 385 INTERSTATE HIGHWAY
- 17A FEDERAL HIGHWAY
- 1501 SECONDARY ROAD NUMBER
- 291 STATE HIGHWAY
- B TAXIWAY DESIGNATION
- 973.4 × GROUND SPOT ELEVATION
- AIRPORT PROPERTY LINE
- 1000 CONTOUR
- TREE LINE
- BRL BUILDING RESTRICTION LINE
- RVZ RUNWAY VISIBILITY ZONE
- APPROACH RUWAY PROTECTION ZONE LIMIT
- FAA NAVAID CRITICAL AREA LIMIT
- DEPARTURE RUNWAY PROTECTION ZONE LIMIT
- FAR PART 77 APPROACH SURFACE LIMIT
- EXISTING AIRPORT BUILDING
- EXISTING NON AIRPORT BUILDING
- PROPOSED BUILDING
- EXISTING PAVEMENT
- PROPOSED PAVEMENT (SHORT TERM)
- PROPOSED PAVEMENT (LONG TERM)



ALL WEATHER WIND ROSE

WIND ROSE DATA SOURCE:

NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801
DATA TAKEN FROM STATION 3870 – GREER, S.C., 8 Mi. NNE
FOR THE PERIOD 10/01/62 THRU 12/31/78

WIND COVERAGE	12 MPH	15 MPH
R/W 1/19	94.41%	98.55%
R/W 10/28	93.32%	98.47%
R/W 1/19 AND R/W 10/28	99.59%	99.95%

1998

400 0 400 800
FEET

NO.	REVISIONS	BY	APP.	DATE

Greenville Airport Commission
Greenville Downtown Airport

AIRPORT LAYOUT PLAN

PEARSON Engineering
PLANNERS ENGINEERS SURVEYORS
WEST COLUMBIA, SOUTH CAROLINA

DATE: JUNE 1998 | SCALE: 1" = 400' | SHEET: 2 OF 7