OBSTRUCTION DATA SHEET

ODS 690
FAYETTEVILLE REGIONAL AIRPORT / GRANNIS FIELD
FAYETTEVILLE, NORTH CAROLINA

DIGITIZED FROM

OC 690
SURVEYED DECEMBER 1990
9TH EDITION

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FOR THE FEDERAL AVIATION ADMINISTRATION

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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

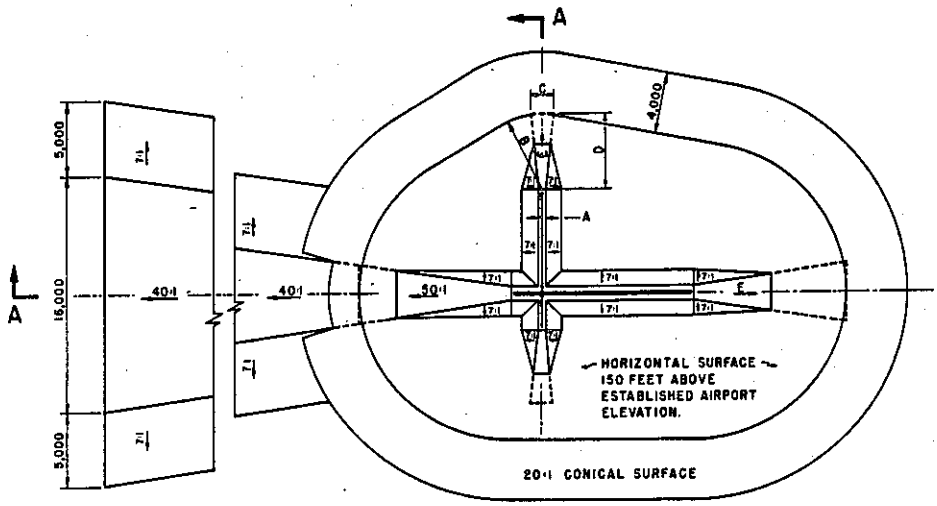
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

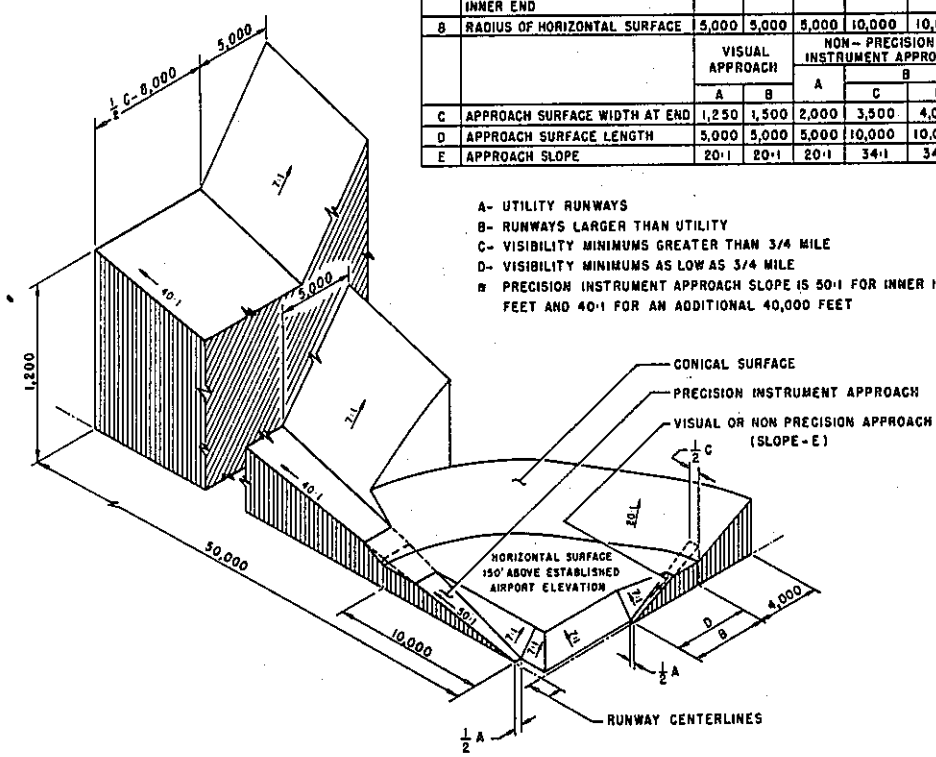
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X[1]	X[2]	XXXX/XXXX[3]	XXXXXX.XXX[4]	XXXXXXX.XXX[4]	XXXXXXX[5]		XXXX/XXXX[6]	XXXXXX.XXX[7]	XXXXXXX.XXX[7]
OBJECT			LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX

HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXX	XXXXX	XXXXX	XXXX	XXXX
XXX	XXXXX	XXXXX	XXXX	XXXX

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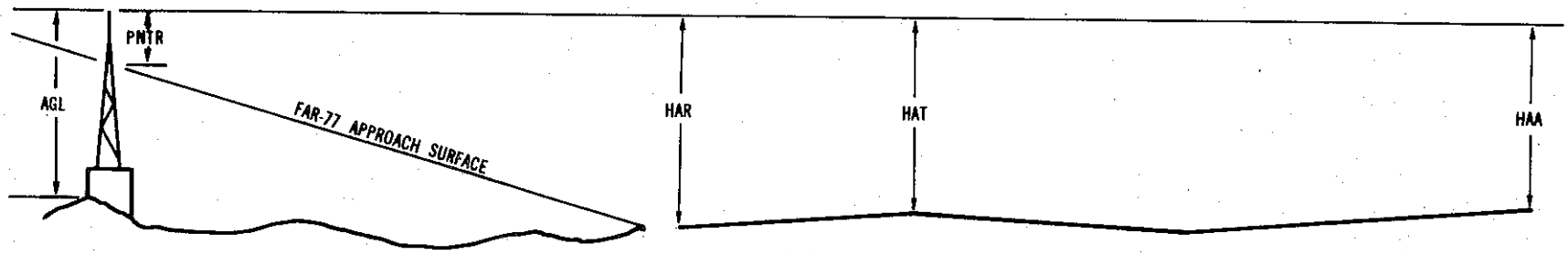
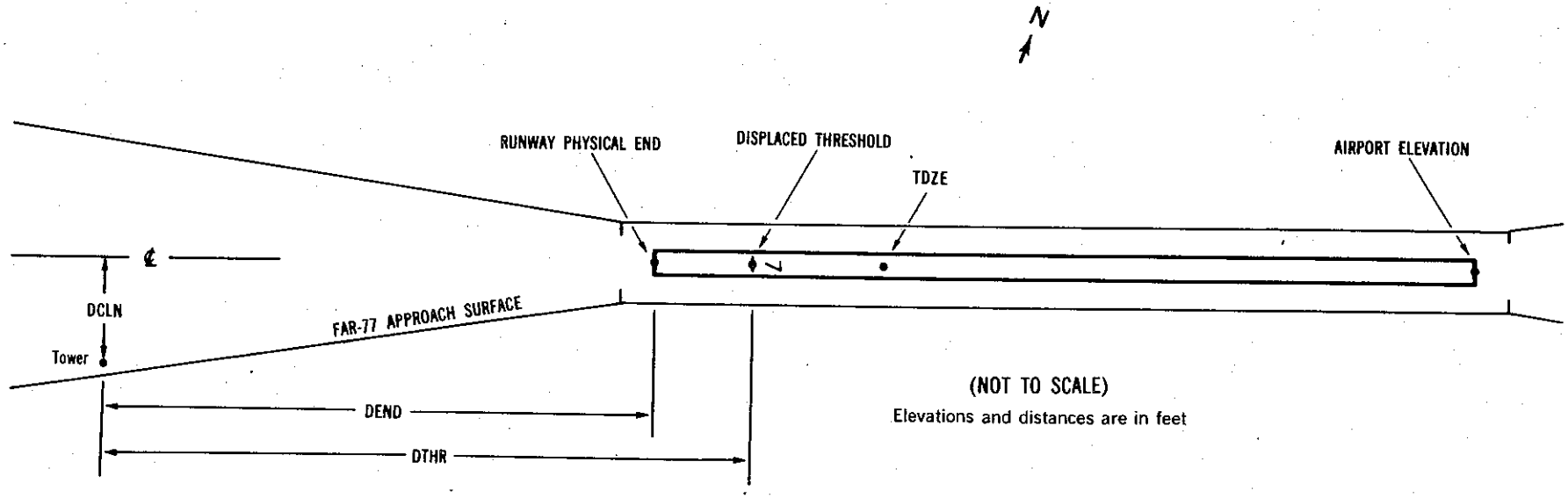




(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0690

AIRPORT ELEVATION 190

4 PIR 186/190 345907.325N 0785311.008W 2111102

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	350008.20	0785220.93	1A	176		-10	-14	-14	-7423		377R	18
TREE	350006.93	0785220.61	1A	173		-13	-17	-17	-7327		467R	15
OL ON LIGHTED WINDSOCK	345958.72	0785230.08	1A	172		-14	-18	-18	-6209		223R	6
ROD ON OL TRANSMISSOMETER	345925.84	0785251.84	1A	205		19	15	15	-2427		395R	17
ROD ON OL TRANSMISSOMETER	345923.55	0785252.80	1A	205		19	15	15	-2188		447R	16
OL ON LIGHTED WINDSOCK	345917.46	0785306.72	1A	196		10	6	6	-1061		225L	8
ROD ON OL GLIDE SLOPE	345912.53	0785300.16	1A	241		55	51	51	-918		500R	53
BUSH	345902.43	0785309.11	1A	189		3	-1	-1	342		391R	1
TREE	345902.65	0785317.08	1A	195		9	5	5	666		188L	-1
TREE	345854.61	0785313.06	1A	206		20	16	16	1188		519R	1
TREE	345852.47	0785319.81	1A	206		20	16	16	1664		151R	-9
TREE	345830.99	0785339.98	1A	244		58	54	54	4391		161L	-26
TRANSMISSION TOWER	345809.68	0785353.30	1A	260		74	70	70	6808		6R	-58

22 C 158/179 350008.283N 0785226.170W 0311128

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GLIDE SLOPE	345912.53	0785300.16	1A	241		83	62	51	-6287		500L	53
OL ON LIGHTED WINDSOCK	345917.46	0785306.72	1A	196		38	17	6	-6143		225R	8
ROD ON OL TRANSMISSOMETER	345923.55	0785252.80	1A	205		47	26	15	-5016		447L	16
ROD ON OL TRANSMISSOMETER	345925.84	0785251.84	1A	205		47	26	15	-4777		395L	17
OL ON LIGHTED WINDSOCK	345958.72	0785230.08	1A	172		14	-7	-18	-996		223L	6
TREE	350006.93	0785220.61	1A	173		15	-6	-17	123		467L	15
TREE	350008.20	0785220.93	1A	176		18	-3	-14	219		377L	18
ANTENNA ON BUILDING	350012.66	0785228.58	1A	160		2	-19	-30	274		401R	-1
OL ON LOCALIZER	350010.83	0785224.30	1A	161		3	-18	-29	301		0R	1
TREE	350015.31	0785217.56	1A	174		16	-5	-16	979		245L	-7
TREE	350019.95	0785218.92	1A	187		29	8	-3	1322		95R	-4

OC0690

AIRPORT ELEVATION 190

10 C 183/189 345915.580N 0785318.322W 2710932

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	345912.30	0785221.18	1A	215		32	26	25	-4760		235R	31
OL ON LIGHTED WINDSOCK	345917.46	0785306.72	1A	196		13	7	6	-962		209L	9
TREE	345917.31	0785326.32	1A	190		7	1	0	669		161L	-7
TREE	345919.23	0785327.94	1A	219		36	30	29	808		353L	18
TREE	345914.38	0785328.16	1A	200		17	11	10	816		138R	-1
TREE	345919.31	0785332.72	1A	211		28	22	21	1205		352L	-2
TREE	345917.08	0785335.51	1A	215		32	26	25	1433		123L	-4
TREE	345914.36	0785337.94	1A	218		35	29	28	1630		156R	-7
TRANSMISSION TOWER	345928.60	0785446.91	1A	302		119	113	112	7397		1168L	-93

28 C 184/189 345914.616N 0785220.628W 0911005

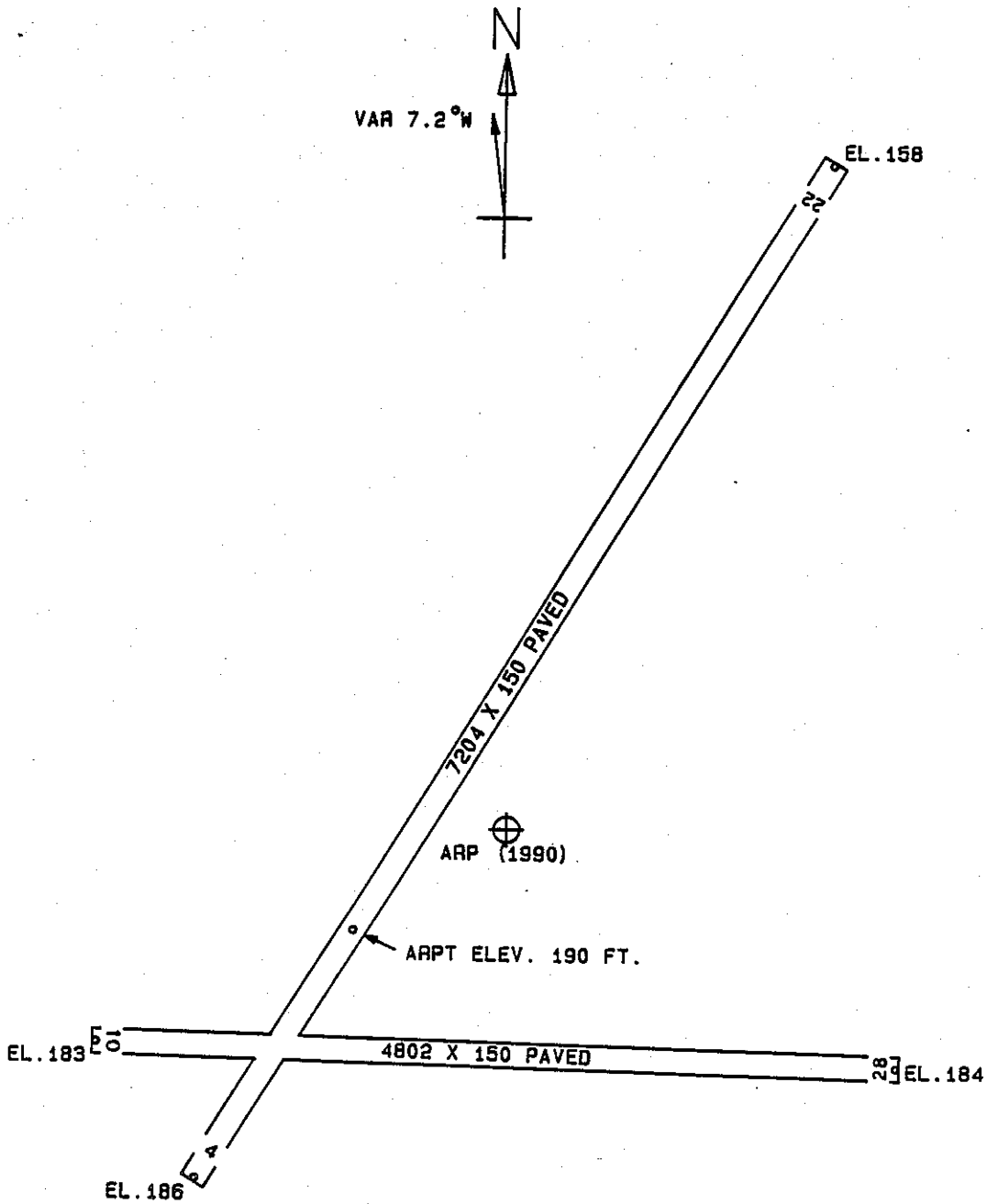
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	345917.46	0785306.72	1A	196		12	7	6	-3840		209R	9
TREE	345912.30	0785221.18	1A	215		31	26	25	-41		235L	31
TREE	345913.80	0785211.71	1A	199		15	10	9	744		67L	-1
TREE	345911.95	0785207.03	1A	214		30	25	24	1137		246L	2
TREE	345918.68	0785159.36	1A	218		34	29	28	1761		447R	-12
TREE	345912.54	0785157.85	1A	226		42	37	36	1899		171L	-8

OC0690

AIRPORT ELEVATION 190

ARP 345928.723N 0785248.945W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON LIGHTED WINDSOCK	345922.08	0785249.98	1A	218		28	194 30	677
ROD ON OL POLE	345921.76	0785251.35	1A	225		35	203 6	732
ANT ON OL RTR T(SW 1 of 3)	345922.66	0785239.59	1A	226		36	135 26	991
ANTENNA ON OL ATCT	345928.94	0785308.02	1A	273		83	278 0	1587
TREE	345943.19	0785231.02	1A	238		48	52 46	2089
TREE	345907.67	0785301.70	1A	220		30	213 42	2378
TREE	345911.82	0785227.53	1A	225		35	141 0	2469
OL ON VOR/DME	345907.39	0785231.14	1A	226		36	152 43	2616
TREE	345904.53	0785305.43	1A	197		7	216 29	2804
TREE	345918.32	0785217.66	1A	217		27	119 12	2807
TREE	345920.54	0785216.62	1A	247		57	114 18	2814
TREE	345951.38	0785224.90	1A	213		23	48 20	3041
TREE	345901.57	0785306.69	1A	215		25	215 29	3117
POLE	345912.35	0785320.80	1A	201		11	245 13	3125
TREE	345910.41	0785216.98	1A	216		26	132 2	3241
TREE	345859.44	0785308.55	1A	210		20	216 4	3381
POLE	345912.20	0785324.67	1A	201		11	247 52	3410
TREE	345858.58	0785308.01	1A	221		31	214 42	3436
TREE	345909.27	0785212.80	1A	244		54	130 23	3594
TREE	345957.90	0785220.03	1A	213		23	46 24	3806
TREE	345909.72	0785208.35	1A	241		51	126 50	3886
TREE	350008.58	0785238.64	1A	222		32	19 13	4120
TREE	345900.46	0785327.69	1A	241		51	235 39	4308
TREE	345921.35	0785342.18	1A	236		46	267 39	4492
TREE	350014.82	0785234.08	1A	220		30	22 4	4821
TREE	350015.12	0785231.62	1A	205		15	24 17	4907
ANTENNA ON POLE	345831.67	0785317.49	1A	305		115	209 35	6238
ROD ON OL POLE	345850.67	0785426.07	1B	337		147	251 45	8951
TRANSMISSION TOWER	345937.11	0785446.04	1B	308		118	282 11	9779
TRANSMISSION TOWER	345947.20	0785444.94	1B	330		140	288 10	9831
OL ON TRANSMISSION TOWER	345757.63	0785331.82	1B	311		121	208 23	9877



TOUCHDOWN ZONE RUNWAY	ELEVATION
4	190
22	179
10	189
28	189

FAYETTEVILLE REGIONAL AIRPORT / GRANNIS FIELD

FAYETTEVILLE, NORTH CAROLINA

(NOT TO SCALE)