

OBSTRUCTION DATA SHEET

**ODS 145
FLORENCE REGIONAL AIRPORT
FLORENCE, SOUTH CAROLINA**

DIGITIZED FROM

**OC 145
SURVEYED MARCH 1992
10TH EDITION**

**HORIZONTAL DATUM NAD83
VERTICAL DATUM NGVD29**



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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 No. 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 the OC depict a representation of objects that existed at the time of the OC field survey.

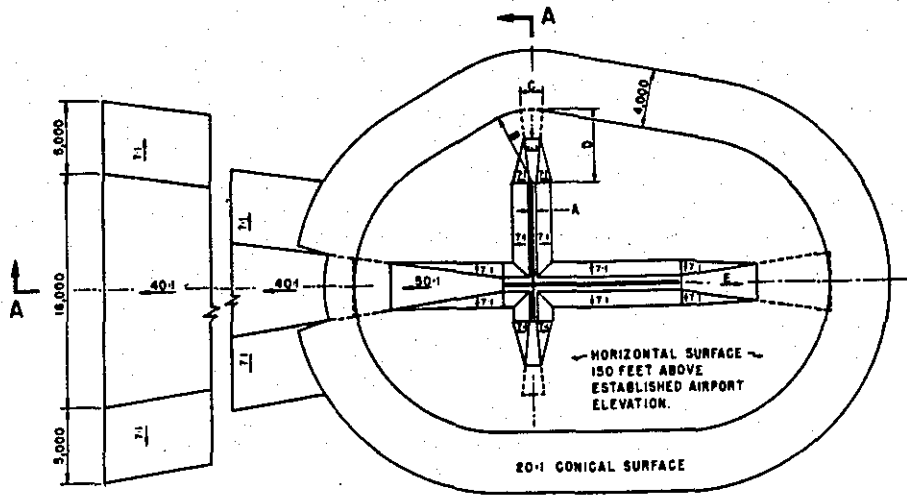
ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
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.

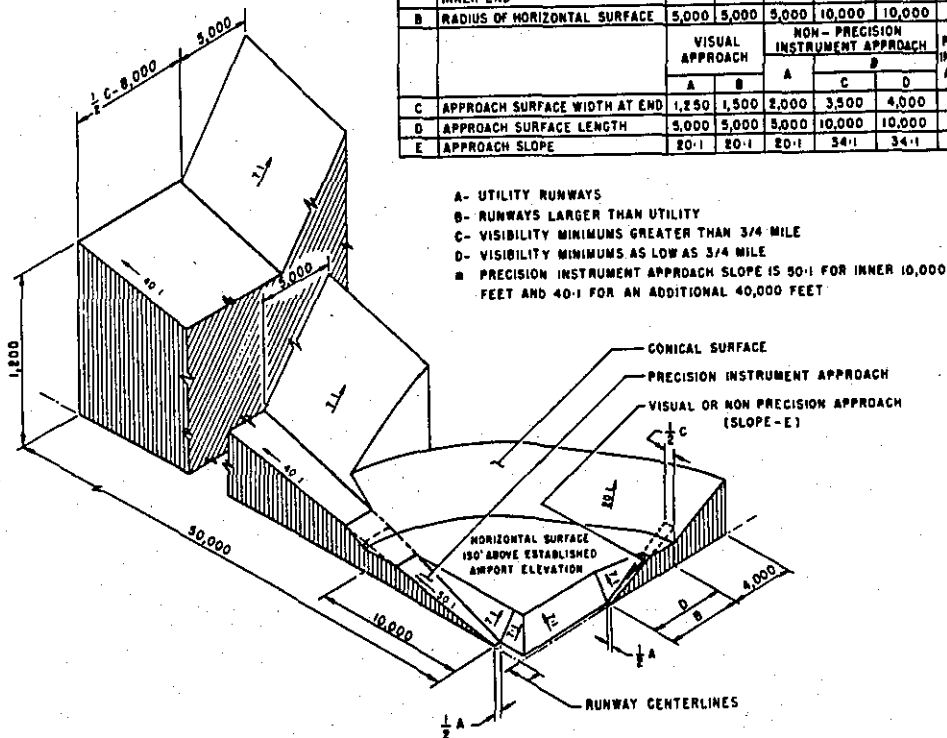
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A		D			
		A	B	A	C	D	
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	#



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

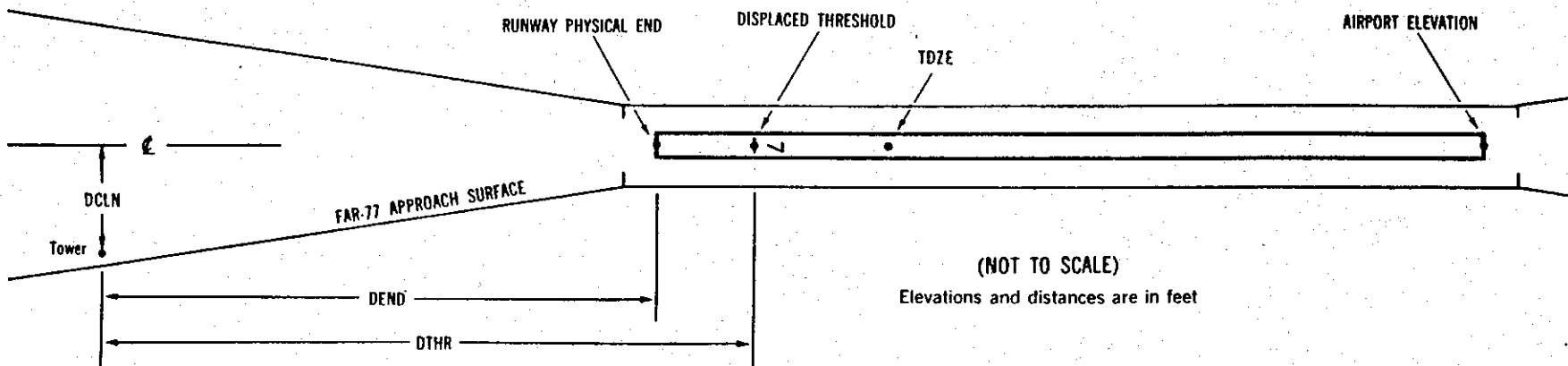
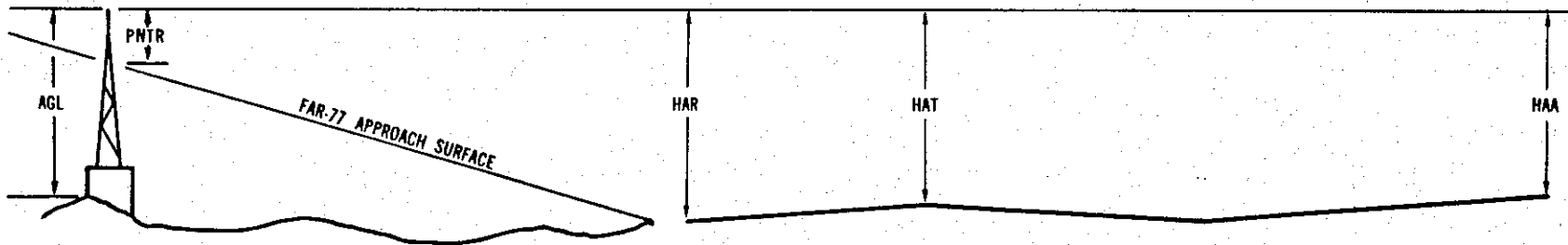
- A- UTILITY RUNWAYS
- B- RUNWAYS LARGER THAN UTILITY
- C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- #- PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x ¹	x ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXX.XXX ⁴	XXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXX.XXX ⁷				
OBJECT	LAT	LONG	A ⁸	ELEV ⁹	AGL ¹⁰	HAR ¹¹	HAT ¹¹	HAA ¹¹	DEND ¹²	DTHR ¹²	DCLN ¹²	PNTR ¹³
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX



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 areas 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 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displaced threshold
- 8 Accuracy codes: Horizontal Vertical
 1 = 20 A = 2
 2 = 40 B = 5
 C = 20
- 9 Elevation above mean sea level (MSL) 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). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
 HAR - Height above approach end of reference runway
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
 DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displaced 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 that object is in primary on roll-out side of zero distance point.
- 13 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

000145

AIRPORT ELEVATION 147

36 C 113/ 135 341033.808 -794329.350 1813012.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	341029.61	-794326.21	1A	152		39	17	5	417		275R	32
ROAD (N)	341023.91	-794329.58	1A	124		11	-11	-23	1001		7R	-13
TREE	341023.96	-794333.44	1A	156		43	21	9	1004		317L	19
TREE	341021.54	-794333.05	1A	172		59	37	25	1248		278L	28
TREE	341019.39	-794330.07	1A	166		53	31	19	1458		22L	16
TREE	341017.52	-794330.36	1A	175		62	40	28	1648		42L	19
TREE	341012.64	-794334.62	1A	177		64	42	30	2150		386L	6
TREE	341008.11	-794335.85	1A	181		68	46	34	2611		478L	-3
TREE	341006.65	-794336.24	1A	186		73	51	39	2759		507L	-3

18 C 145/ 145 341133.149 -794327.476 13013.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FLOODLIGHT ON SIGN	341148.02	-794330.74	1A	182		37	37	35	1496		313R	-1
POLE	341149.19	-794325.07	1A	184		39	39	37	1626		160L	-3
POLE	341149.97	-794329.99	1A	188		43	43	41	1694		256R	-1
TREE	341150.69	-794322.45	1A	223		78	78	76	1784		376L	32
TREE	341152.22	-794327.22	1A	216		71	71	69	1927		29R	21
TREE	341152.76	-794331.51	1A	219		74	74	72	1973		390R	22
TREE	341154.25	-794320.95	1A	232		87	87	85	2146		492L	30
TREE	341154.36	-794323.95	1A	218		73	73	71	2151		240L	16
TREE	341155.73	-794329.24	1A	220		75	75	73	2277		208R	14
TREE	341200.04	-794328.30	1A	223		78	78	76	2715		140R	4

OC0145

AIRPORT ELEVATION 147

9 PIR 147/ 147 341107.291 -794402.184 2633406.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	341117.51	-794243.78	1A	126		-21	-21	-21	-6660		289L	3
BUSH	341111.62	-794244.52	1A	138		-9	-9	-9	-6531		296R	15
BUSH	341111.39	-794251.17	1A	131		-16	-16	-16	-5974		256R	5
BUSH	341110.77	-794257.81	1A	132		-15	-15	-15	-5413		256R	3
BUSH	341117.84	-794300.21	1A	135		-12	-12	-12	-5292		477L	5
OL ON LTD WINDSOCK	341105.81	-794336.01	1A	167		20	20	20	-2168		395R	26
ROD ON OL GS	341104.70	-794347.47	1A	183		36	36	36	-1199		399R	40
TREE	341103.31	-794402.90	1A	159		12	12	12	105		393R	12
POLE	341108.60	-794411.16	1A	153		6	6	6	735		216L	-5
ROAD (N)	341106.43	-794411.94	1A	143		-4	-4	-4	824		5L	-17
TREE	341108.43	-794435.71	1A	197		50	50	50	2785		430L	-2
TREE	341106.62	-794440.76	1A	198		51	51	51	3227		296L	-10
TREE	341102.63	-794441.35	1A	205		58	58	58	3322		99R	-5
TREE	341059.04	-794444.65	1A	217		70	70	70	3638		429R	1

27 C 122/ 140 341114.487 -794245.298 833450.

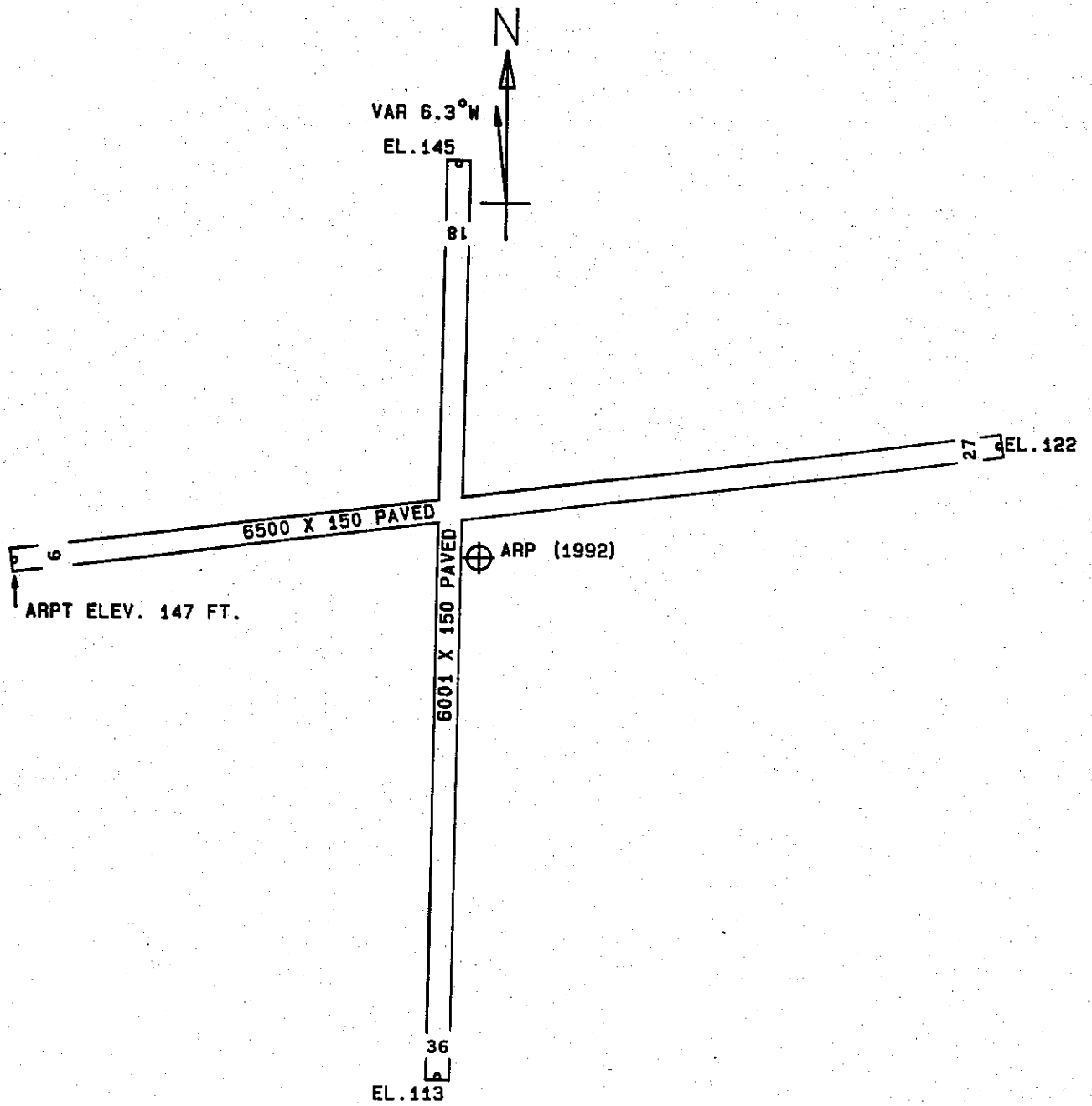
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	341103.31	-794402.90	1A	159		37	19	12	-6603		393L	12
ROD ON OL GS	341104.70	-794347.47	1A	183		61	43	36	-5300		399L	40
OL ON LTD WINDSOCK	341105.81	-794336.01	1A	167		45	27	20	-4331		395L	26
BUSH	341117.84	-794300.21	1A	135		13	-5	-12	-1207		477R	5
BUSH	341110.77	-794257.81	1A	132		10	-8	-15	-1086		256L	3
BUSH	341111.39	-794251.17	1A	131		9	-9	-16	-525		256L	5
BUSH	341111.62	-794244.52	1A	138		16	-2	-9	32		296L	15
BUSH	341117.51	-794243.78	1A	126		4	-14	-21	161		289R	3
BUSH	341111.69	-794242.11	1A	125		3	-15	-22	234		311L	2
TREE	341109.68	-794217.73	1A	184		62	44	37	2247		742L	1
TREE	341124.27	-794208.46	1A	202		80	62	55	3185		636R	-8
TREE	341118.62	-794159.60	1A	218		96	78	71	3861		14L	-12

OC0145

AIRPORT ELEVATION 147

ARP 341107.333 -794325.984

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	341104.56	-794310.39	1A	182		35	10822	1339
ROD ON ASR	341055.69	-794314.39	1A	220		73	14641	1528
TREE	341051.11	-794325.18	1A	187		40	18357	1641
CEILOMETER	341121.13	-794336.34	1A	148		1	33420	1644
TREE	341101.15	-794344.23	1A	184		37	25407	1655
OL ON ANEMOMETER	341120.87	-794340.14	1A	185		38	32518	1812
TREE	341105.51	-794255.03	1A	187		40	10020	2606
ROD ON OL DF ANTENNA	341136.63	-794333.18	1A	190		43	35445	3022
TREE	341035.49	-794324.55	1A	161		14	18409	3221
ANTENNA ON OL ATCT	341136.13	-794344.71	1B	245		98	33755	3308
TREE	341035.35	-794336.04	1A	171		24	20057	3341
BUSH	341033.67	-794333.36	1A	125		-22	19637	3458
TREE	341031.97	-794325.16	1A	166		19	18511	3575
ROD ON OL APBN	341138.28	-794347.43	1B	253		106	33622	3610
TREE	341032.35	-794337.27	1A	174		27	20118	3661
TREE	341122.67	-794244.97	1A	218		71	7204	3777
TREE	341029.10	-794325.42	1A	157		10	18536	3864
TREE	341107.36	-794239.61	1A	182		35	9615	3896
POLE	341146.43	-794321.19	1A	175		28	1207	3972
TREE	341122.55	-794239.46	1A	198		51	7448	4200
TREE	341025.86	-794333.82	1A	135		-12	19513	4243
TREE	341153.07	-794320.15	1A	217		70	1221	4649
ANTENNA	341126.55	-794235.26	1A	233		86	7147	4682
TREE	341154.53	-794333.60	1A	224		77	35839	4813
TREE	341113.37	-794427.42	1A	182		35	28302	5196
ANTENNA ON OL TANK	341135.17	-794232.29	1B	294		147	6420	5316
OL ON FLOODLIGHT POLE	341205.60	-794336.07	1A	246		99	35807	5950
TREE	341126.64	-794210.83	1A	212		65	7906	6608
OL ON TANK	341216.08	-794348.39	1B	301		154	35108	7199
OL TANK	341149.66	-794507.04	1B	283		136	30303	9505
CRANE	341150.87	-794520.01	1B	325		178	30059	10540
ANTENNA	341125.86	-794534.57	1B	321		174	28608	10961
ANTENNA ON OL BUILDING	341148.89	-794531.64	1B	290		143	29800	11359
OL ANT ON BLDG	341155.15	-794604.05	2A	390	251	243	29619	14128
ANT ON OL TOWER	341141.58	-794615.23	2A	422	282	275	28959	14631



TOUCHDOWN ZONE RUNWAY ELEVATION	
36	135
18	145
9	147
27	140

FLORENCE REGIONAL AIRPORT
FLORENCE, SOUTH CAROLINA
(NOT TO SCALE)