

OBSTRUCTION DATA SHEET

**ODS 895
SMYRNA AIRPORT
SMYRNA, TENNESSEE**

DIGITIZED FROM

**OC 895
SURVEYED APRIL 1992
6TH 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.

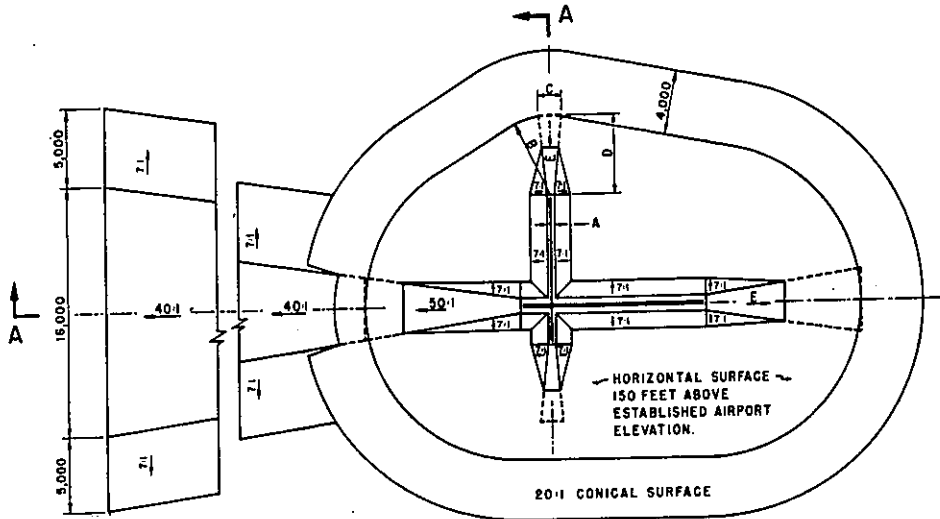
ODS information is arranged as follows:

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:

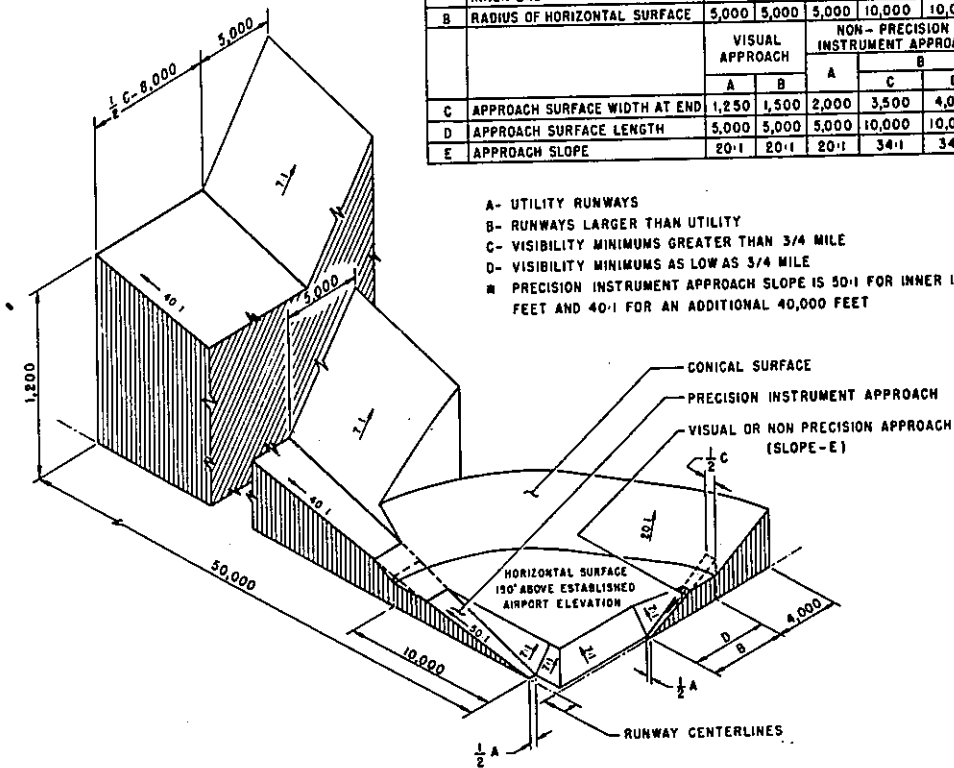
A(V) Utility runway - visual approach only
A(NP) Utility runway - nonprecision instrument approach
B(V) Nonutility runway - visual approach only
C Nonutility runway - nonprecision instrument
approach with visibility minimums greater than
3/4 mile
D Nonutility runway- nonprecision instrument approach
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	B	A	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

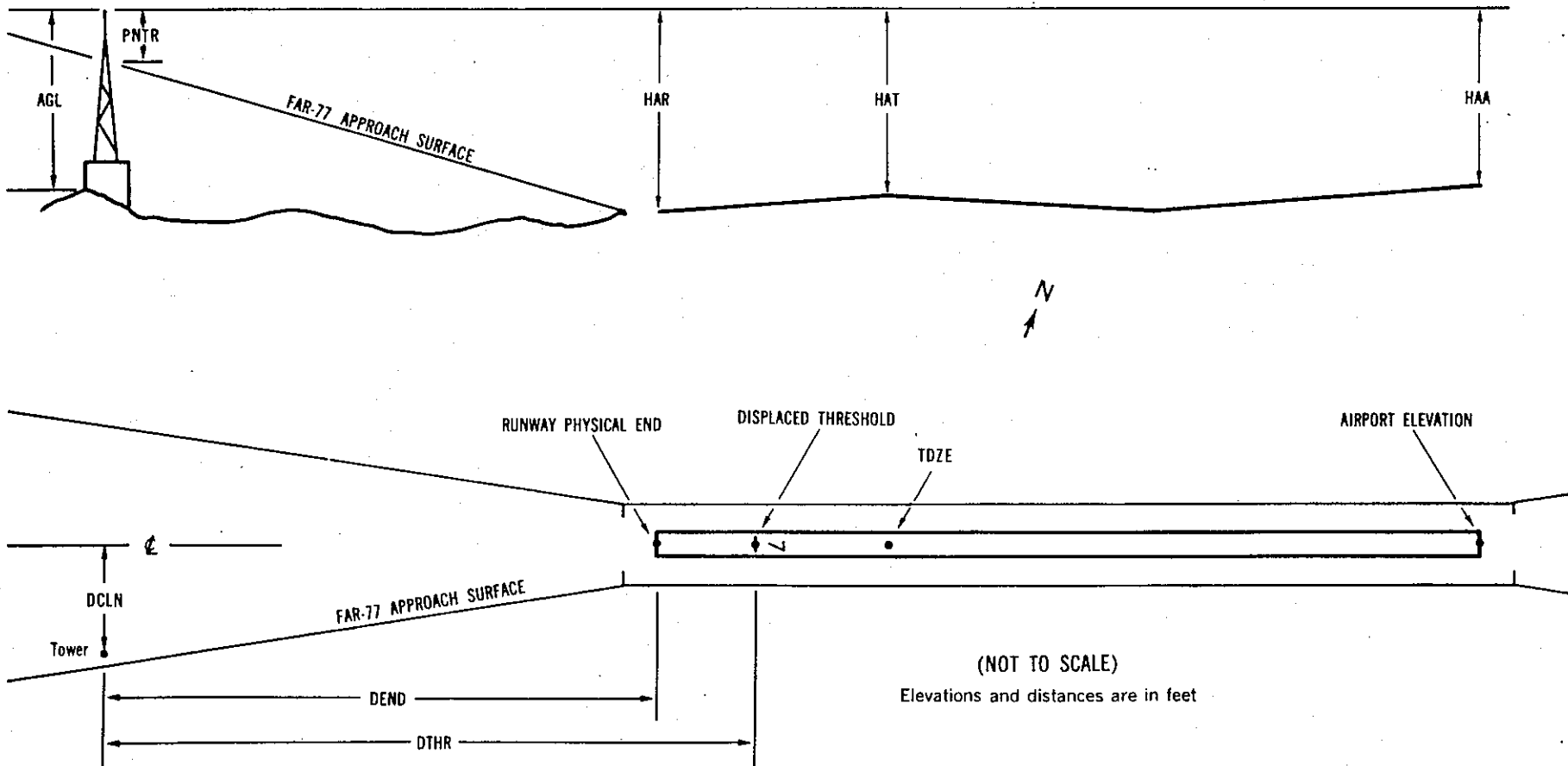
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXXX.XXX ⁴	XXXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXXXX.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	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.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 displace 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 displace 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).

AIRPORT ELEVATION 543

1 SUPLC 519/ 519 360002.256 -863116.129 040805.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	355950.08	-863117.16	1A	546		27	27	3	1234		4R	-3
TREE	355945.82	-863114.52	1A	577		58	58	34	1648		252R	16
TREE	355944.48	-863118.55	1A	587		68	68	44	1807		69L	21
TREE	355942.39	-863115.86	1A	590		71	71	47	2002		167R	18
TREE	355942.00	-863118.84	1A	582		63	63	39	2058		75L	8
TREE	355934.19	-863121.13	1A	601		82	82	58	2860		205L	4
TREE	355932.43	-863113.72	1A	621		102	102	78	2994		415R	20
TREE	355931.11	-863114.53	1A	622		103	103	79	3132		358R	17

19 SUPLC 521/ 521 360056.959 -863111.262 1840808.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	360106.66	-863108.11	1A	565		44	44	22	997		187L	21
TREE	360108.00	-863108.82	1A	570		49	49	27	1128		120L	22
TREE	360108.85	-863112.57	1A	566		45	45	23	1192		194R	16
TREE	360109.08	-863109.21	1A	574		53	53	31	1235		80L	23
TREE	360109.38	-863105.36	1A	576		55	55	33	1288		393L	23
TREE	360112.98	-863113.35	1A	569		48	48	26	1604		288R	7

AIRPORT ELEVATION 543

14 C 543/ 543 360104.211 -863143.379 1390759.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	360010.22	-863051.12	1A	555		12	12	12	-6937		325R	41
GROUND	360034.91	-863119.21	1A	515		-28	-28	-28	-3539		437R	3
TREE	360103.16	-863149.90	1A	557		14	14	14	270		475R	12
TREE	360105.27	-863152.71	1A	572		29	29	29	583		510R	18
TREE	360112.45	-863143.85	1A	559		16	16	16	656		516L	3
TREE	360107.65	-863154.46	1A	571		28	28	28	859		461R	9
TREE	360115.06	-863150.43	1A	577		34	34	34	1208		280L	4
TREE	360110.90	-863158.83	1A	585		42	42	42	1342		517R	8
TREE	360113.50	-863158.09	1A	587		44	44	44	1501		299R	6
TREE	360121.68	-863157.56	1A	607		64	64	64	2098		275L	8
TREE	360125.23	-863220.01	1A	635		92	92	92	3576		884R	-7
TREE	360138.57	-863218.90	1A	662		119	119	119	4537		67L	-9
TREE	360143.07	-863221.78	1A	676		133	133	133	5036		186L	-9
TREE	360150.36	-863218.59	1A	695		152	152	152	5422		867L	-2
TREE	360157.70	-863250.68	1A	721		178	178	178	7708		641R	-43
TREE	360158.28	-863258.90	1A	734		191	191	191	8193		1113R	-44
TREE	360208.66	-863247.61	1A	735		192	192	192	8380		275L	-49
TREE	360209.27	-863300.12	1A	724		181	181	181	9100		461R	-81

OC0895

AIRPORT ELEVATION 543

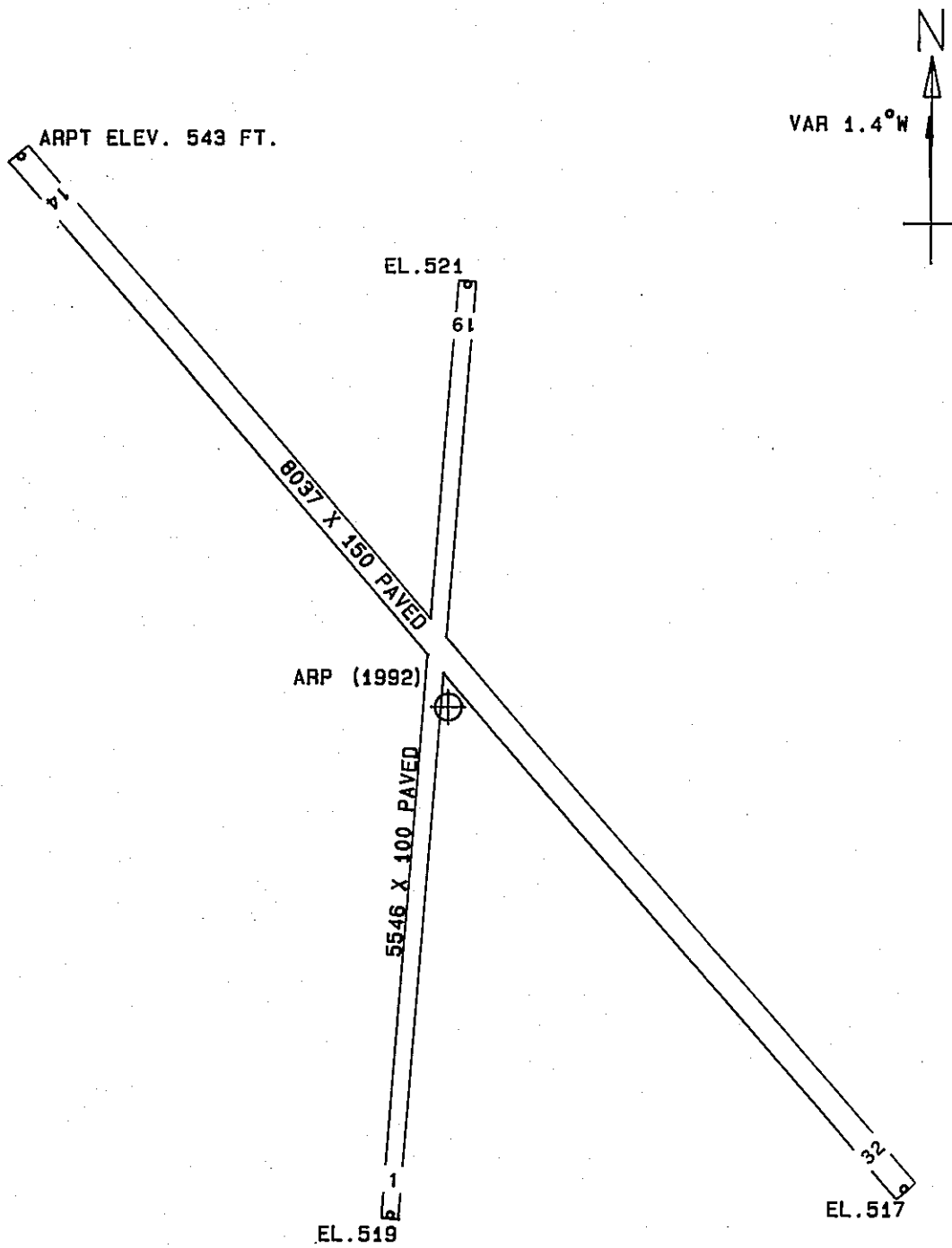
32 PIR 517/ 517 360004.103 -863039.382 3190837.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	360034.91	-863119.21	1A	515		-2	-2	-28	-4497		437L	3
ROD ON OL GS	360010.22	-863051.12	1A	555		38	38	12	-1099		325L	41
TREE	355948.39	-863031.39	1A	552		35	35	9	1631		543L	6
TREE	355949.87	-863018.73	1A	557		40	40	14	2199		342R	0
TREE	355948.26	-863014.15	1A	577		60	60	34	2568		520R	12
TREE	355945.15	-863012.79	1A	589		72	72	46	2879		399R	18
TREE	355937.05	-863023.91	1A	576		59	59	33	2901		828L	5
TREE	355934.30	-863021.20	1A	583		66	66	40	3256		841L	4
TREE	355937.10	-863012.84	1A	588		71	71	45	3492		137L	5
TREE	355925.10	-863002.02	1A	611		94	94	68	4991		258L	-2
TREE	355921.33	-863003.00	1A	615		98	98	72	5228		568L	-3

AIRPORT ELEVATION 543

ARP 360032.300 -863112.324

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL WINDSOCK	360032.04	-863119.96	1A	544		1	26857	628
TREE	360104.85	-863103.14	1A	580		37	1418	3376
TREE	360054.59	-863145.92	1A	618		75	31038	3563
APBN ON OL WATER TANK	360026.86	-863027.17	1B	700		157	9949	3750
TREE	360057.94	-863148.79	1A	602		59	31216	3962
TREE	360059.68	-863147.91	1A	581		38	31451	4027
TREE	355958.83	-863044.69	1A	567		24	14732	4075
TREE	360101.54	-863148.64	1A	563		20	31608	4201
TREE	360111.18	-863141.16	1A	570		27	33019	4590
LIGHT STANDARD	355947.94	-863124.77	1A	573		30	19414	4601
TREE	360103.16	-863155.89	1A	606		63	31228	4748
TREE	355952.34	-863040.91	1A	581		38	14849	4795
TREE	355941.99	-863109.33	1A	613		70	17837	5093
TREE	360107.52	-863157.49	1A	595		52	31513	5143
TREE	360116.56	-863145.67	1A	588		45	32955	5248
TREE	360000.90	-863020.64	1A	579		36	12810	5303
TREE	360107.78	-863159.88	1A	600		57	31357	5304
TREE	355959.46	-863021.44	1A	572		29	12951	5339
OL ELEVATOR	360026.33	-863219.24	1A	687		144	26508	5531
TREE	355944.42	-863031.75	1A	563		20	14650	5879
TREE	360036.36	-863224.52	1A	705		162	27522	5946
LIGHT STANDARD	355945.12	-863159.61	1B	654		111	22033	6152
TREE	355952.02	-863229.14	1B	716		173	23834	7511
TREE	355935.42	-863231.85	1B	746		203	23003	8705
TREE	360016.34	-863257.62	1B	722		179	26050	8800
TREE	360003.53	-863315.44	1B	764		221	25521	10525
TREE	355957.28	-863315.40	2C	760		217	25206	10714
TREE	360156.62	-863305.20	1B	728		185	31400	12597
OL ON WATER TANK	355821.51	-863056.39	2C	699		156	17544	13289



TOUCHDOWN ZONE
RUNWAY ELEVATION

1	519
19	521
14	543
32	517

SMYRNA AIRPORT
SMYRNA, TENNESSEE
(NOT TO SCALE)