

OBSTRUCTION DATA SHEET

**ODS 463
SMITH REYNOLDS AIRPORT
WINSTON - SALEM, NORTH CAROLINA**

DIGITIZED FROM

**OC 463
SURVEYED MAY 1991
10TH EDITION**



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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:

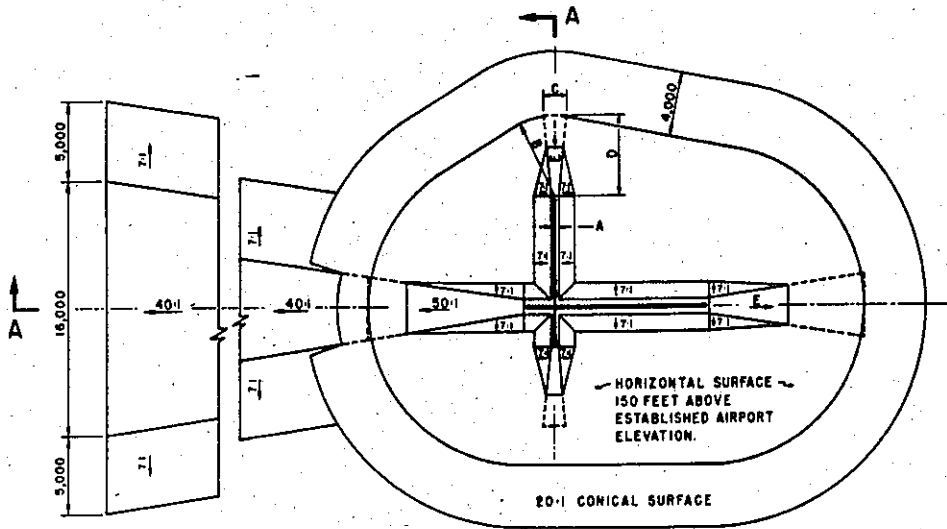
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the 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):

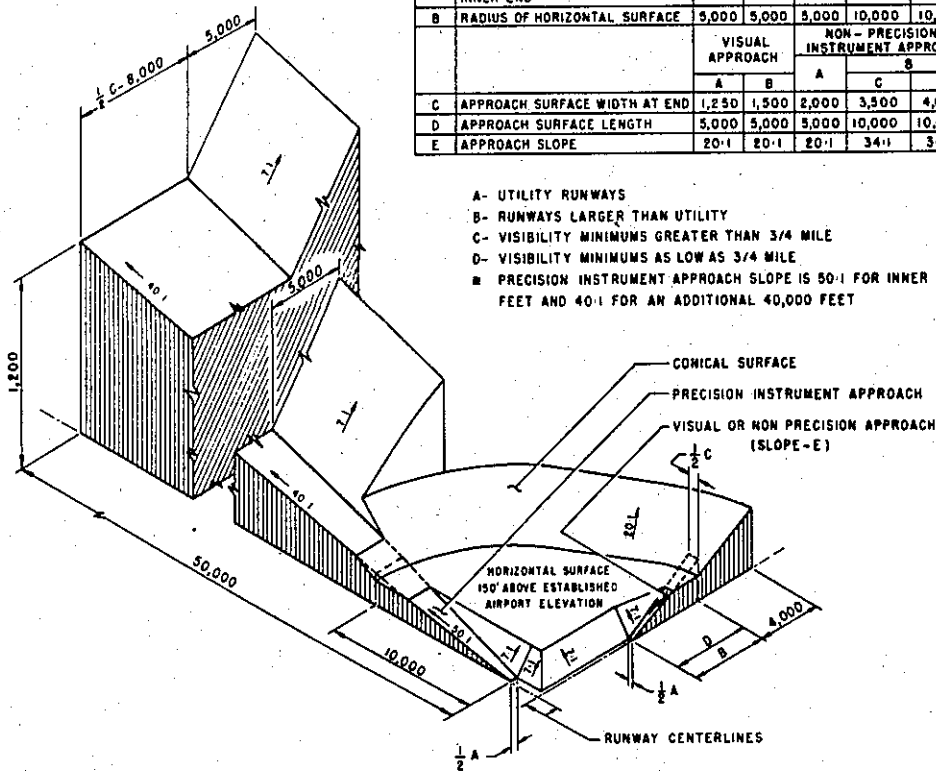
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach 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	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	
D	APPROACH SURFACE LENGTH	1,250	1,500	2,000	3,500	4,000	16,000
E	APPROACH SLOPE	5,000	5,000	5,000	10,000	10,000	*
		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

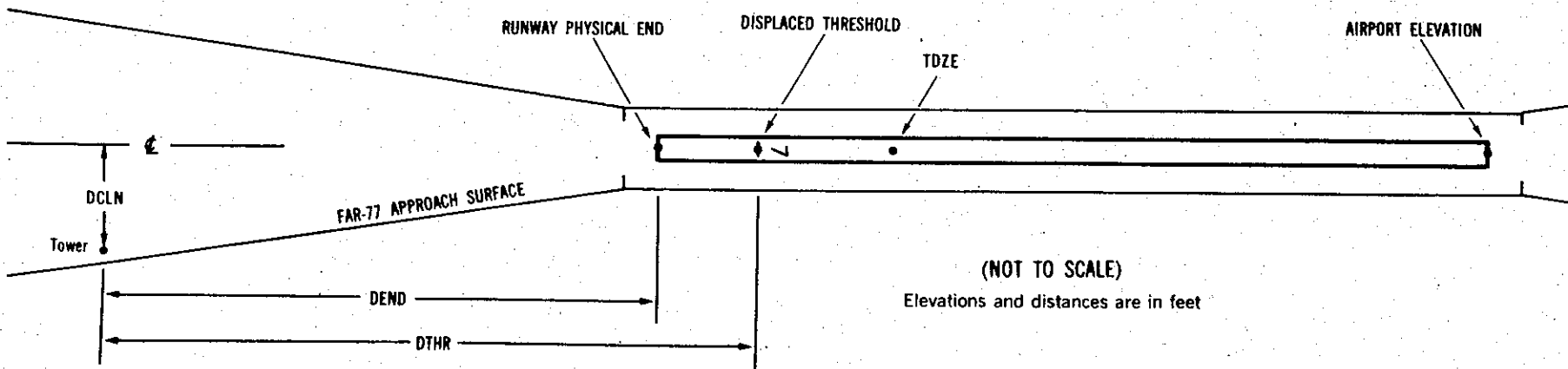
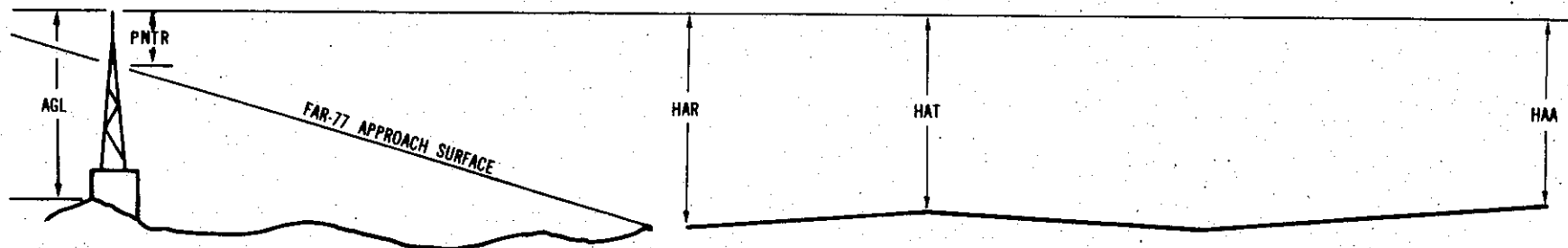
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	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



(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).

OC0463

AIRPORT ELEVATION 970

3 A(V) 950/970 360758.507N 0801345.728W 2104221

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	360753.43	0801347.52	1A	968		18	-2	-2	516		135R	2
TREE	360742.63	0801354.28	1A	1014		64	44	44	1739		216R	-13

21 A(V) 961/970 360831.985N 0801321.216W 0304235

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	360838.60	0801313.59	1A	1006		45	36	36	895		196L	10
TREE	360844.55	0801314.27	1A	1011		50	41	41	1383		159R	-9

OC0463

AIRPORT ELEVATION 970

15 SUPLC 968/ 360819.207N 0801335.481W 3243806 968/968 360814.494N 0801331.357W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	360722.07	0801251.95	1A	937		-31	-31	-33	-6778	-6194	431R	36
BUSH	360726.03	0801245.39	1A	906		-62	-62	-64	-6764	-6179	239L	5
BUSH	360725.96	0801253.72	1A	914		-54	-54	-56	-6374	-5789	322R	9
BUSH	360730.46	0801248.57	1A	915		-53	-53	-55	-6247	-5663	286L	9
ROD ON OL GLIDE SLOPE	360732.45	0801248.08	1A	966		-2	-2	-4	-6107	-5522	435L	58
TREE	360728.54	0801258.41	1A	972		4	4	2	-5938	-5354	485R	61
OL WINDSOCK	360732.58	0801257.26	1A	926		-42	-42	-44	-5660	-5075	172R	12
TREE	360732.60	0801301.74	1A	976		8	8	6	-5445	-4861	470R	59
TREE	360738.98	0801252.69	1A	979		11	11	9	-5349	-4764	509L	61
FENCE	360735.25	0801303.44	1A	932		-36	-36	-38	-5146	-4562	429R	11
BUSH	360740.46	0801256.30	1A	955		-13	-13	-15	-5055	-4471	354L	33
TREE	360738.70	0801307.63	1A	978		10	10	8	-4662	-4078	507R	50
TREE	360747.66	0801300.84	1A	982		14	14	12	-4246	-3662	471L	49
FENCE	360745.78	0801313.50	1A	946		-22	-22	-24	-3800	-3215	486R	7
GROUND	360750.72	0801306.19	1A	943		-25	-25	-27	-3740	-3155	292L	3
GROUND	360755.07	0801309.63	1A	956		-12	-12	-14	-3218	-2633	316L	11
FENCE	360758.56	0801324.43	1A	959		-9	-9	-11	-2228	-1643	470R	5
OL ON ANEMOMETER	360805.24	0801330.19	1A	985		17	17	15	-1403	-819	463R	24
FENCE	360817.22	0801327.51	1A	970		2	2	0	-543	42	417L	2
ANTENNA ON BUILDING	360815.82	0801340.20	1A	993		25	25	23	-55	529	514R	25
OL ON LIGHTED WINDSOCK	360821.65	0801331.52	1A	996		28	28	26	14	598	408L	28
ANTENNA ON OL HANGAR	360818.32	0801341.87	1A	992		24	24	22	230	815	480R	23
FLOODLIGHT	360820.02	0801339.92	1A	987		19	19	17	278	862	249R	17
HANGAR	360818.96	0801342.79	1A	995		27	27	25	326	911	504R	23
OL ON LOCALIZER	360821.87	0801337.81	1A	975		7	7	5	330	914	OL	3
POLE	360823.73	0801345.47	1A	1000		32	32	30	847	1431	404R	13
TREE	360829.43	0801342.31	1A	1008		40	40	38	1167	1752	142L	12
BUILDING	360831.82	0801340.00	1A	1025		57	57	55	1255	1839	436L	26
TREE	360827.53	0801348.10	1A	1024		56	56	54	1286	1870	357R	24
TREE	360830.44	0801345.94	1A	1029		61	61	59	1423	2007	42R	25
POLE	360833.83	0801341.30	1A	1022		54	54	52	1482	2066	466L	16
TREE	360829.65	0801351.74	1A	1045		77	77	75	1633	2218	476R	35
TREE	360831.30	0801349.91	1A	1038		70	70	68	1682	2266	258R	26

AIRPORT ELEVATION 970

15 SUPLC 968/ 360819.207N 0801335.481W 3243806 968/968 360814.494N 0801331.357W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	360836.55	0801344.56	1A	1049		81	81	79	1862	2446	408L	32
TREE	360840.73	0801344.15	1A	1063		95	95	93	2186	2771	680L	37
TREE	360839.36	0801348.73	1A	1069		101	101	99	2291	2875	293L	40
TREE	360840.82	0801347.81	1A	1078		110	110	108	2367	2952	440L	46

OC0463

AIRPORT ELEVATION 970

33 PIR 901/941 360725.536N 0801248.532W 1443833

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	360821.65	0801331.52	1A	996		95	55	26	-6669		408R	28
ANTENNA ON BUILDING	360815.82	0801340.20	1A	993		92	52	23	-6600		514L	25
FENCE	360817.22	0801327.51	1A	970		69	29	0	-6113		417R	2
OL ON ANEMOMETER	360805.24	0801330.19	1A	985		84	44	15	-5252		463L	24
FENCE	360758.56	0801324.43	1A	959		58	18	-11	-4428		470L	5
GROUND	360755.07	0801309.63	1A	956		55	15	-14	-3437		316R	11
GROUND	360750.72	0801306.19	1A	943		42	2	-27	-2915		292R	3
FENCE	360745.78	0801313.50	1A	946		45	5	-24	-2855		486L	7
TREE	360747.66	0801300.84	1A	982		81	41	12	-2409		471R	49
TREE	360738.70	0801307.63	1A	978		77	37	8	-1993		507L	50
BUSH	360740.46	0801256.30	1A	955		54	14	-15	-1600		354R	33
FENCE	360735.25	0801303.44	1A	932		31	-9	-38	-1509		429L	11
TRLE	360738.98	0801252.69	1A	979		78	38	9	-1306		509R	61
TREE	360732.60	0801301.74	1A	976		75	35	6	-1210		470L	59
OL WINDSOCK	360732.58	0801257.26	1A	926		25	-15	-44	-995		172L	12
TREE	360728.54	0801258.41	1A	972		71	31	2	-717		485L	61
ROD ON OL GLIDE SLOPE	360732.45	0801248.08	1A	966		65	25	-4	-548		435R	58
BUSH	360730.46	0801248.57	1A	915		14	-26	-55	-408		286R	9
BUSH	360725.96	0801253.72	1A	914		13	-27	-56	-281		322L	9
BUSH	360726.03	0801245.39	1A	906		5	-35	-64	109		239R	5
TREE	360722.07	0801251.95	1A	937		36	-4	-33	123		431L	36
TREE	360720.91	0801251.32	1A	937		36	-4	-33	249		458L	35
TREE	360724.83	0801244.04	1A	918		17	-23	-52	271		259R	16
TREE	360719.90	0801251.17	1A	945		44	4	-25	339		506L	41
TREE	360721.00	0801238.66	1A	935		34	-6	-35	843		395R	21
TREE	360712.52	0801245.84	1A	929		28	-12	-41	1201		581L	8
TREE	360715.13	0801240.46	1A	911		10	-30	-59	1242		69L	-11
TREE	360703.29	0801225.08	1A	965		64	24	-5	2948		268R	9

OC0463

AIRPORT ELEVATION 970

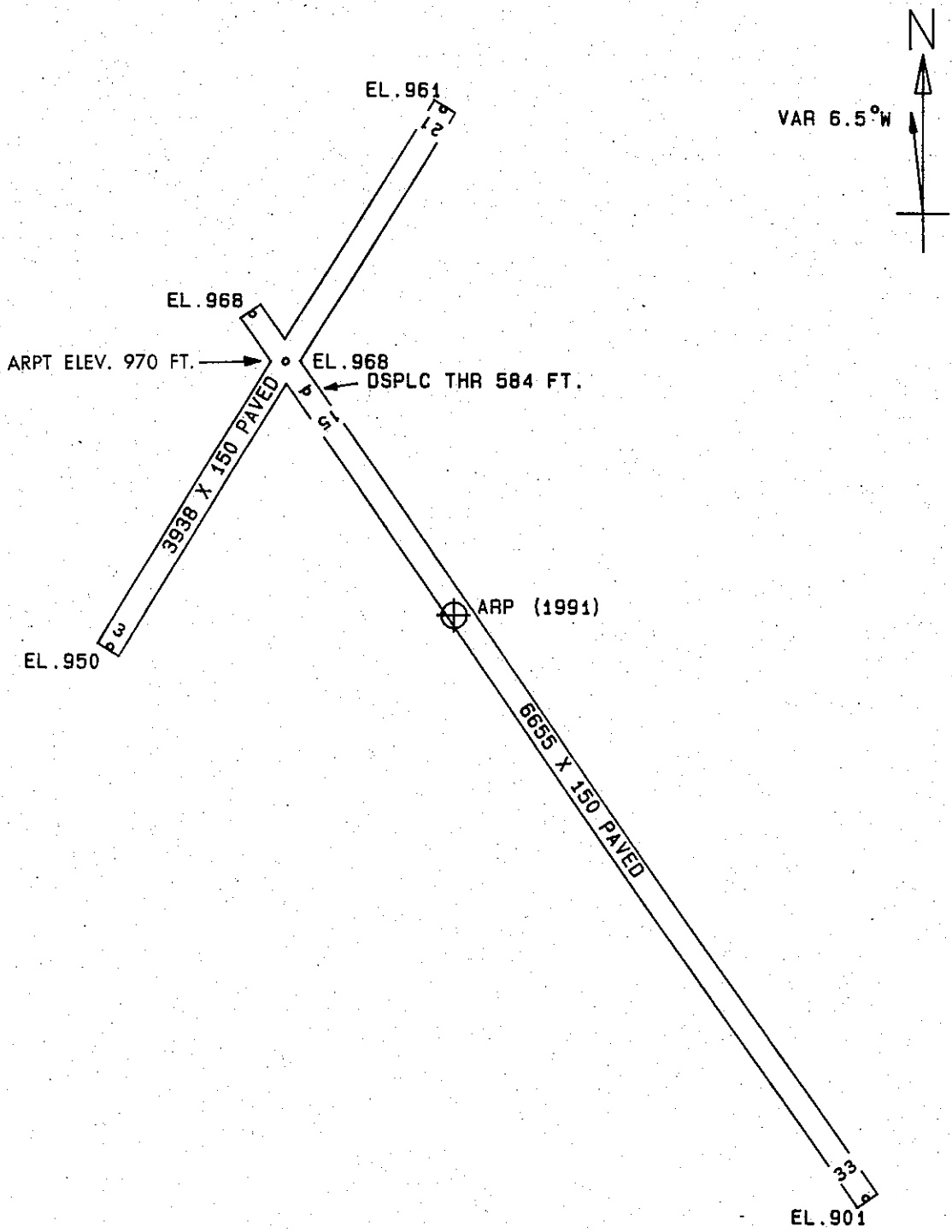
ARP 360800.875N 0801319.985W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	360806.09	0801316.03	1A	973		3	38 6	619
OL ANTENNA ON BUILDING	360800.68	0801330.72	1A	1020		50	275 11	881
TREE	360748.88	0801318.71	1A	983		13	181 34	1218
TREE	360756.72	0801306.05	1A	1014		44	116 40	1218
TREE	360746.65	0801315.59	1A	972		2	172 26	1483
TREE	360758.98	0801339.80	1A	1000		30	269 47	1637
TREE	360817.80	0801324.71	1A	1023		53	353 45	1755
TREE	360741.19	0801310.20	1A	983		13	164 33	2146
TREE	360822.18	0801324.09	1A	1004		34	357 37	2180
ANTENNA & APBN ON OL ATCT	360812.75	0801342.59	1A	1042		72	309 25	2209
TREE	360754.42	0801346.21	1A	963		-7	259 38	2248
TREE	360801.12	0801349.98	1A	1011		41	277 5	2461
POLE	360737.30	0801307.28	1A	964		-6	162 53	2602
TREE	360826.86	0801320.83	1A	1014		44	4 59	2629
TREE	360830.45	0801317.96	1A	1017		47	9 41	2996
OL ON HANGAR	360821.56	0801347.21	1A	1004		34	319 37	3060
CHURCH SPIRE	360732.46	0801306.77	1A	1002		32	165 50	3071
TREE	360729.94	0801300.60	1A	988		18	159 33	3509
TREE	360735.13	0801249.08	1A	974		4	142 15	3634
TREE	360725.40	0801305.90	1A	1031		61	168 39	3769
OL ON HANGAR	360837.76	0801328.42	1A	1052		82	355 59	3793
TREE	360838.89	0801310.55	1A	1035		65	17 53	3922
TREE	360726.16	0801257.28	1A	981		11	158 33	3974
TREE	360842.78	0801319.39	1A	1041		71	7 10	4238
TREE	360829.96	0801358.31	1A	1079		109	319 36	4305
TREE	360720.16	0801255.55	1A	981		11	160 33	4579
CHURCH SPIRE	360821.91	0801410.07	1B	1127		157	303 53	4627
TREE	360846.20	0801304.80	1A	1051		81	21 42	4749
CHIMNEY	360746.86	0801415.97	1B	1106		136	259 21	4806
OL ON RADIO ANTENNA	360844.42	0801250.47	1B	1134		164	35 18	5025
TREE	360714.12	0801251.63	1A	957		-13	160 18	5269
TREE	360722.11	0801236.17	1A	960		-10	143 58	5319
ANTENNA	360714.66	0801403.05	1B	1138		168	223 36	5858

AIRPORT ELEVATION 970

ARP 360800.875N 0801319.985W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON OL TANK	360812.29	0801440.28	1B	1164		194	286 27	6687
TANK	360806.48	0801442.25	1B	1126		156	281 18	6772
OL ON TANK	360806.29	0801452.39	1B	1148		178	280 38	7600
ANTENNA ON OL TANK	360718.55	0801449.04	1B	1110		140	246 9	8467
STACK	360816.06	0801521.39	1B	1144		174	285 17	10077
ANTENNA ON OL BUILDING	360553.49	0801438.04	2A	1371	443	401	212 57	14386



TOUCHDOWN ZONE RUNWAY ELEVATION	
3	970
21	970
15	968
33	941

SMITH REYNOLDS AIRPORT
 WINSTON - SALEM, NORTH CAROLINA
 (NOT TO SCALE)