

OBSTRUCTION DATA SHEET

**ODS 902
MEMORIAL FIELD
HOT SPRINGS, ARKANSAS**

DIGITIZED FROM

**OC 902
SURVEYED MARCH 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:

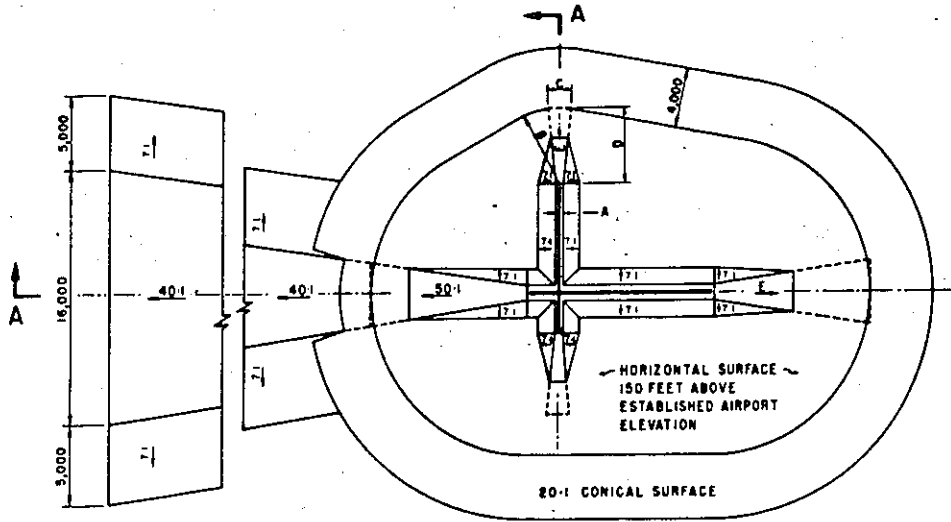
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

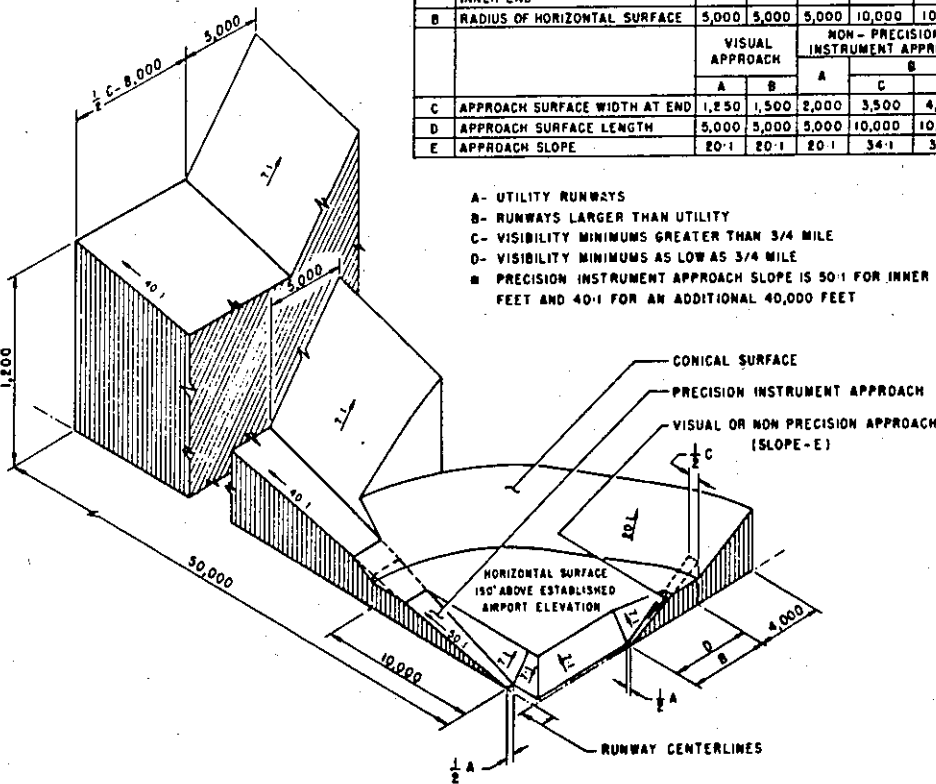
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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

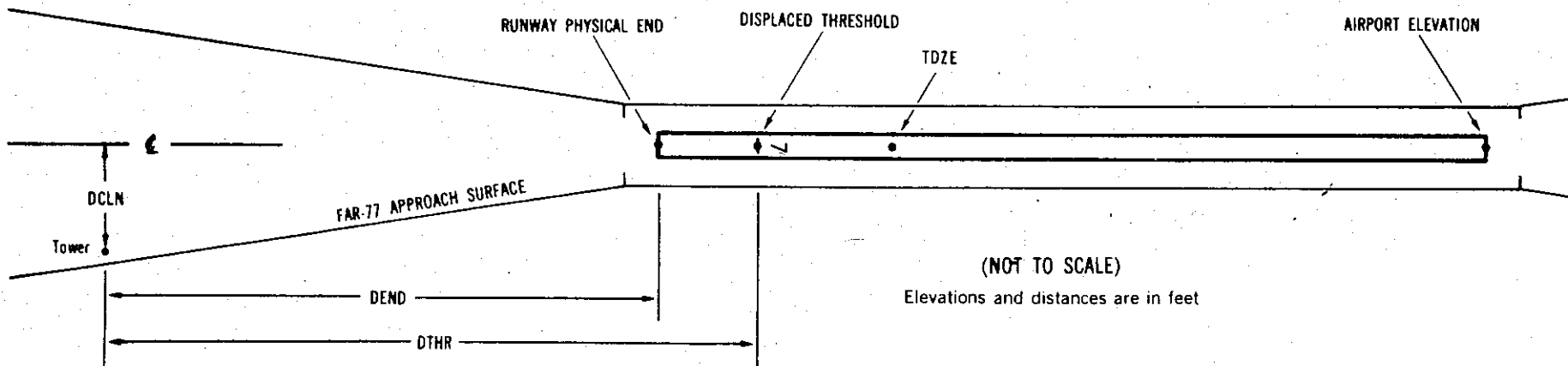
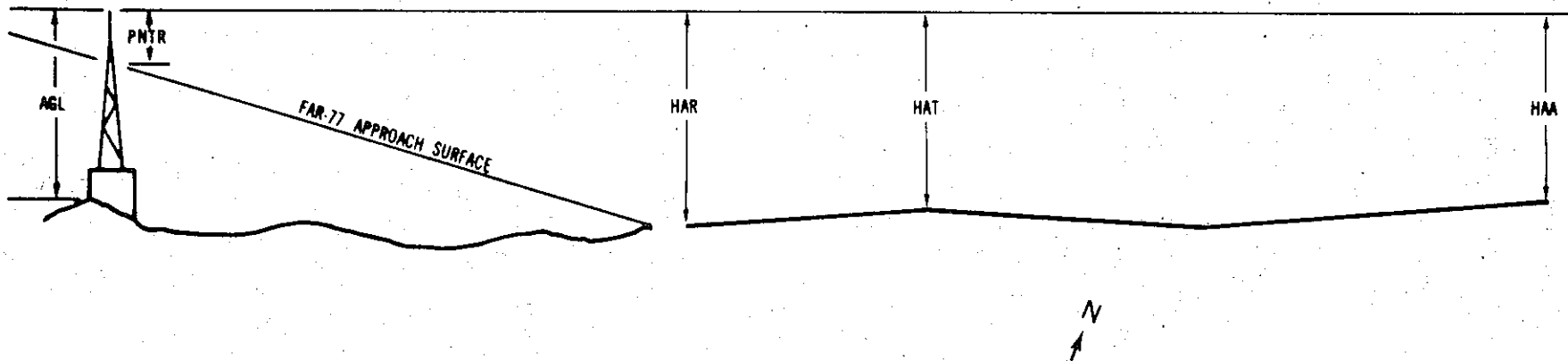
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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



(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).

OC0902

AIRPORT ELEVATION 540

5 PIR 501/515 342822.566N 0930621.898W 2341625

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	342858.80	0930513.41	1A	544		43	29	4	-6794		374R	4
TREE	342858.41	0930513.39	1A	563		62	48	23	-6772		407R	23
TREE	342855.29	0930517.64	1A	561		60	46	21	-6299		455R	23
TREE	342856.14	0930519.47	1A	546		45	31	6	-6225		295R	9
OL ANEMOMETER	342844.99	0930552.37	1A	535		34	20	-5	-3330		396L	20
OL WINDSOCK	342844.10	0930553.78	1A	536		35	21	-4	-3182		393L	21
GROUND	342830.59	0930601.11	1A	517		16	2	-23	-1887		358R	5
OL ON GLIDE SLOPE	342831.03	0930614.55	1A	536		35	21	-4	-999		335L	29
WOOD DEBRIS	342824.23	0930627.96	1A	512		11	-3	-28	314		433L	9
GROUND	342824.14	0930628.98	1A	504		3	-11	-36	389		475L	-1
TREE	342815.75	0930647.90	1A	544		43	29	4	2169		712L	4
TREE	342809.94	0930650.35	1A	541		40	26	1	2679		355L	-10

OC0902

AIRPORT ELEVATION 540

23 SUPLC 540/ 342900.655N 0930517.942W 0541702 536/536 342857.826N 0930522.693W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	342831.03	0930614.55	1A	536		-4	0	-4	-5596	-5107	335R	29
GROUND	342830.59	0930601.11	1A	517		-23	-19	-23	-4708	-4218	358L	5
OL WINDSOCK	342844.10	0930553.78	1A	536		-4	0	-4	-3413	-2923	393R	21
OL ANEMOMETER	342844.99	0930552.37	1A	535		-5	-1	-5	-3265	-2775	396R	20
TREE	342856.14	0930519.47	1A	546		6	10	6	-370	120	295L	9
TREE	342855.29	0930517.64	1A	561		21	25	21	-296	194	455L	23
TREE	342858.41	0930513.39	1A	563		23	27	23	177	667	407L	23
GROUND	342858.80	0930513.41	1A	544		4	8	4	199	689	374L	4
GROUND	342900.94	0930510.95	1A	553		13	17	13	492	982	318L	4
OL ON LOCALIZER	342903.54	0930513.09	1A	554		14	18	14	500	990	0R	5
GROUND	342906.26	0930515.41	1A	554		14	18	14	503	993	336R	5
OL ON DME	342905.67	0930513.97	1A	567		27	31	27	566	1056	217R	16
TREE	342901.81	0930505.62	1A	587		47	51	47	906	1396	508L	26
TREE	342909.69	0930508.40	1A	578		38	42	38	1182	1672	275R	9
TREE	342904.39	0930501.69	1A	590		50	54	50	1325	1814	488L	17
TREE	342912.88	0930508.45	1A	590		50	54	50	1366	1856	539R	16
TREE	342914.83	0930507.87	1A	623		83	87	83	1521	2011	671R	44
TREE	342908.01	0930501.65	1A	599		59	63	59	1541	2031	193L	20
TREE	342911.27	0930501.97	1A	607		67	71	67	1712	2202	91R	23
OL ON POLE	342914.39	0930500.13	1A	618		78	82	78	2021	2511	257R	24
TREE	342916.42	0930459.62	1A	618		78	82	78	2176	2666	399R	20
TREE	342914.46	0930450.74	1A	625		85	89	85	2663	3153	196L	13
TREE	342916.44	0930440.16	1A	638		98	102	98	3500	3989	551L	1
CHURCH STEEPLE	342923.46	0930441.87	1A	643		103	107	103	3798	4288	110R	-3
ANTENNA	342915.53	0930433.31	1A	646		106	110	106	3912	4401	961L	-3
TREE	342932.34	0930439.76	1A	683		143	147	143	4465	4955	735R	18
TREE	342936.93	0930434.43	1A	695		155	159	155	5098	5588	851R	11
TREE	342939.47	0930435.42	1A	708		168	172	168	5181	5671	1108R	22
TREE	342935.90	0930430.96	1A	701		161	165	161	5273	5763	597R	12
CHURCH	343007.41	0930357.86	1B	738		198	202	198	9382	9872	1567R	-72

OC0902

AIRPORT ELEVATION 540

13 A(V) 520/520 342853.194N 0930556.466W 3141542

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
CONSTRUCTION VEHICLE	342823.40	0930521.53	1A	518	*	-2	-2	-22	-4197		116R	13
ROAD (N)	342857.34	0930559.02	1A	538		18	18	-2	446		151L	6
TREE	342858.25	0930601.22	1A	544		24	24	4	642		88L	2
TREE	342858.98	0930603.07	1A	557		37	37	17	804		33L	7
OL ON POLE	342858.28	0930605.55	1A	560		40	40	20	903		163R	5
TREE	342900.17	0930606.55	1A	573		53	53	33	1097		84R	8

NOTE: * Probable maximum obstructing height in construction vehicle area.

31 A(V) 505/518 342824.897N 0930521.410W 1341602

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
CONSTRUCTION VEHICLE	342823.40	0930521.53	1A	518	*	13	0	-22	99		116L	13
TREE	342820.57	0930516.54	1A	512		7	-6	-28	598		29L	-13
TREE	342819.94	0930513.16	1A	530		25	12	-10	844		123R	-7
TREE	342810.55	0930508.22	1A	566		61	48	26	1803		267L	-19
ROD ON OL POLE	342804.58	0930451.47	1A	631		126	113	91	3229		279R	-25

NOTE: * Probable maximum obstructing height in construction vehicle area.

OC0902

AIRPORT ELEVATION 540

ARP 342840.628N 0930545.712W

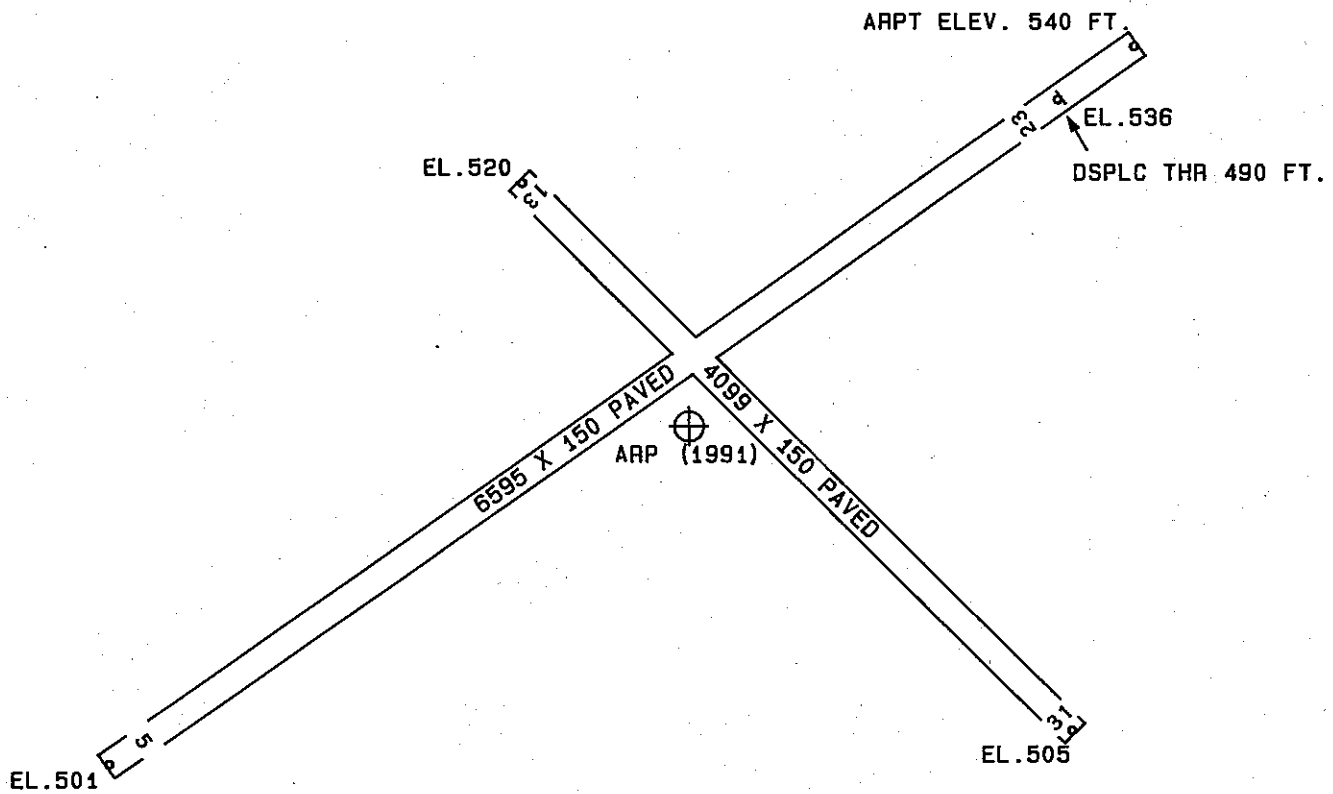
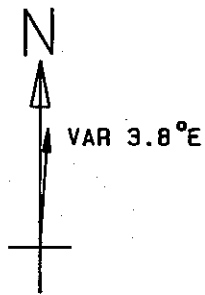
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	342831.75	0930555.36	1A	537		-3	218 12	1208
OL RTR TOWER	342846.38	0930558.98	1A	566		26	293 49	1254
ANTENNA & APBN ON BUILDING	342857.12	0930544.28	1A	590		50	0 18	1671
ANTENNA ON VOR/DME	342842.63	0930525.54	1A	565		25	79 22	1701
TREE	342827.18	0930533.46	1A	571		31	139 10	1703
BUSH	342853.91	0930559.99	1A	526		-14	314 32	1798
POLE	342900.28	0930537.85	1A	590		50	14 32	2093
TREE	342858.48	0930559.89	1A	549		9	322 53	2160
TREE	342855.79	0930604.62	1A	568		28	310 16	2203
TREE	342857.85	0930606.44	1A	568		28	311 18	2458
TREE	342852.29	0930518.26	1A	561		21	59 3	2583
TREE	342822.64	0930607.86	1A	549		9	221 45	2597
TREE	342820.98	0930522.22	1A	534		-6	131 29	2795
TREE	342826.30	0930515.60	1A	555		15	116 4	2908
TREE	342824.40	0930516.43	1A	524		-16	120 0	2950
TREE	342819.07	0930518.08	1A	532		-8	129 29	3179
TREE	342819.94	0930614.78	1A	527		-13	225 32	3209
TREE	342856.47	0930512.17	1A	576		36	56 30	3233
TREE	342818.39	0930617.38	1A	517		-23	225 54	3477
TREE	342827.54	0930626.86	1A	542		2	245 12	3691
POLE	342909.92	0930515.74	1A	579		39	36 29	3882
TREE	342825.43	0930630.01	1A	541		1	243 42	4015
TREE	342824.18	0930632.50	1A	542		2	243 12	4256
TREE	342809.35	0930510.52	1A	576		36	133 13	4322
POLE	342823.57	0930639.50	1A	560		20	245 15	4822
TREE	342918.61	0930505.80	1A	654		114	37 14	5090
TREE	342952.15	0930647.23	1B	773		233	320 45	8877
MOBILE CRANE	342804.16	0930407.98	1B	755 *		215	110 27	8975
TRANSMISSION POLE	342949.25	0930653.89	1B	682		142	316 46	8983
TREE	342957.83	0930641.78	1B	938		398	325 11	9107
TREE	343002.61	0930634.53	1B	1052		512	329 57	9240
TREE	343012.84	0930529.62	1B	1216		676	4 25	9418

NOTE: * Probable maximum obstructing height in mobile crane area.

AIRPORT ELEVATION 540

ARP 342840.628N 0930545.712W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	343015.00	0930554.03	1B	1324		784	352 2	9565
TREE	343015.42	0930615.31	1B	1375		835	341 42	9898
TREE	342954.31	0930422.86	1B	716		176	39 9	10178
TREE	343023.21	0930603.19	1B	1448		908	348 10	10473
ROD ON OL TOWER	343018.41	0930459.16	1A	1648	373	1108	17 43	10625
ANTENNA ON OL RADIO MAST	343018.46	0930457.78	1A	1490	225	950	18 17	10673
OL ANTENNA ON TV MAST	343017.79	0930442.41	1A	1525	259	985	24 32	11160
ANTENNA ON BUILDING	342925.47	0930330.78	1B	715		175	64 19	12171
TREE	343024.65	0930421.50	1B	1238		698	30 2	12660
TREE	343011.27	0930356.47	1B	781		241	41 8	12946
TREE	343030.09	0930401.11	2C	1153		613	34 33	14111
OL ON RADIO MAST	342720.92	0930326.78	2A	802	355	262	120 54	14151
OL RADIO TOWER	343100.28	0930520.37	2C	1234		694	4 45	14277
TREE	343111.53	0930449.11	2C	1240		700	13 27	15974



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
5	515
23	536
13	520
31	518

MEMORIAL FIELD
 HOT SPRINGS, ARKANSAS
 (NOT TO SCALE)