

OBSTRUCTION DATA SHEET

**ODS 258
MIDLAND INTERNATIONAL AIRPORT
MIDLAND, TEXAS**

DIGITIZED FROM

**OC 258
SURVEYED JANUARY 1992
12TH 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.

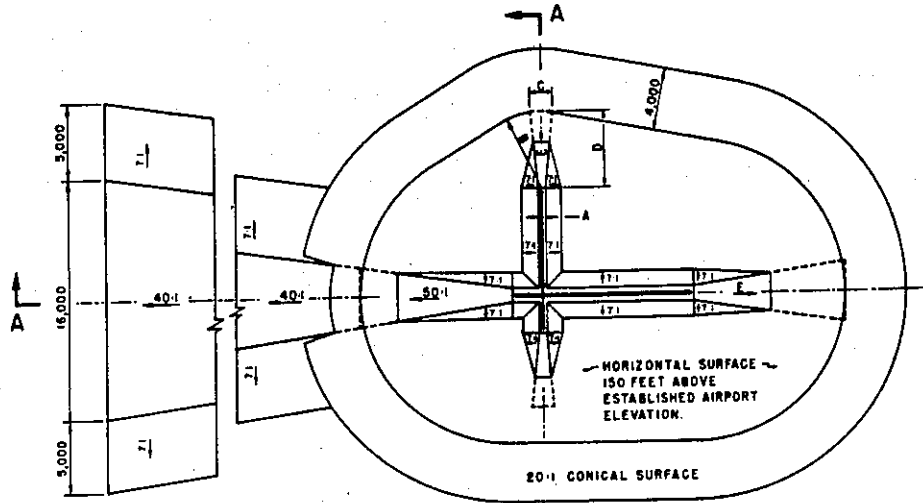
ODS information is arranged as follows:

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:

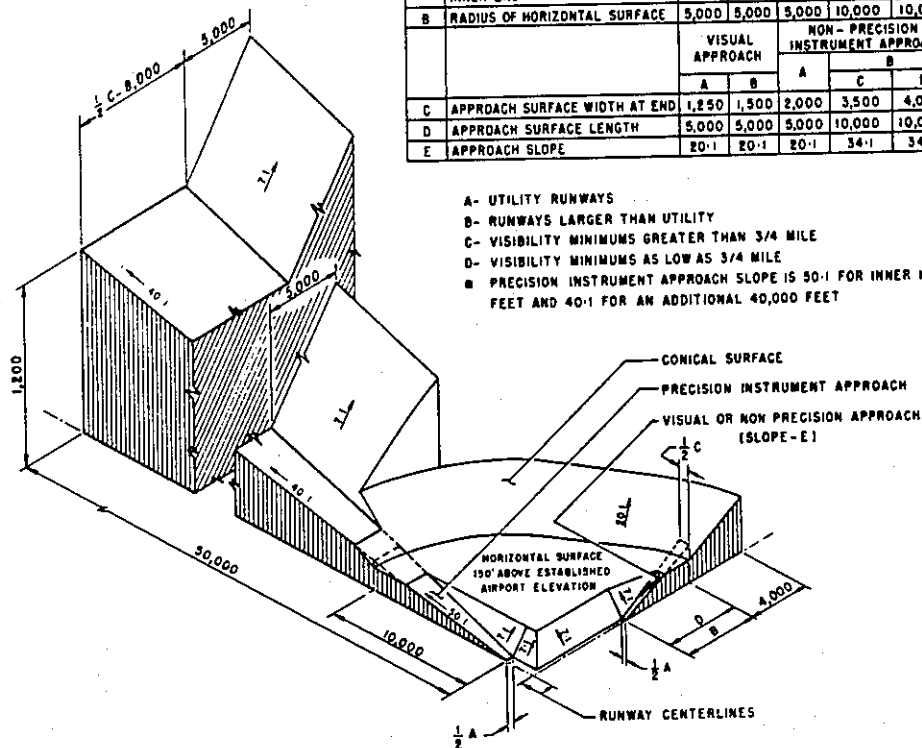
A(V) Utility runway - visual approach only
A(NP) Utility runway - nonprecision instrument approach
B(V) Nonutility runway - visual approach only
C Nonutility runway - nonprecision instrument
approach with visibility minimums greater than
3/4 mile
D Nonutility runway- nonprecision instrument approach
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	B		
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		
		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
- E- PRECISION INSTRUMENT APPROACH SLOPE IS 30:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

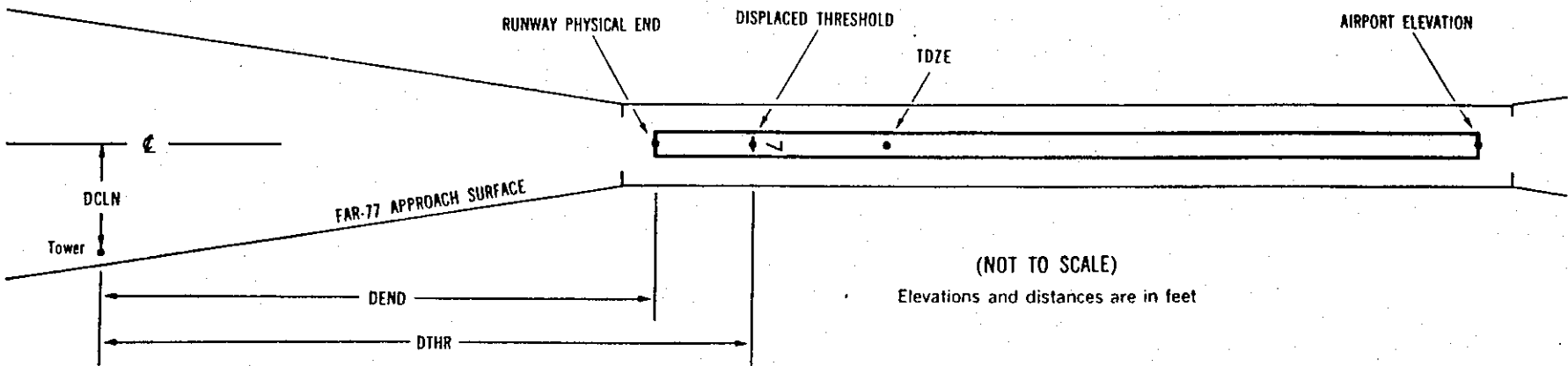
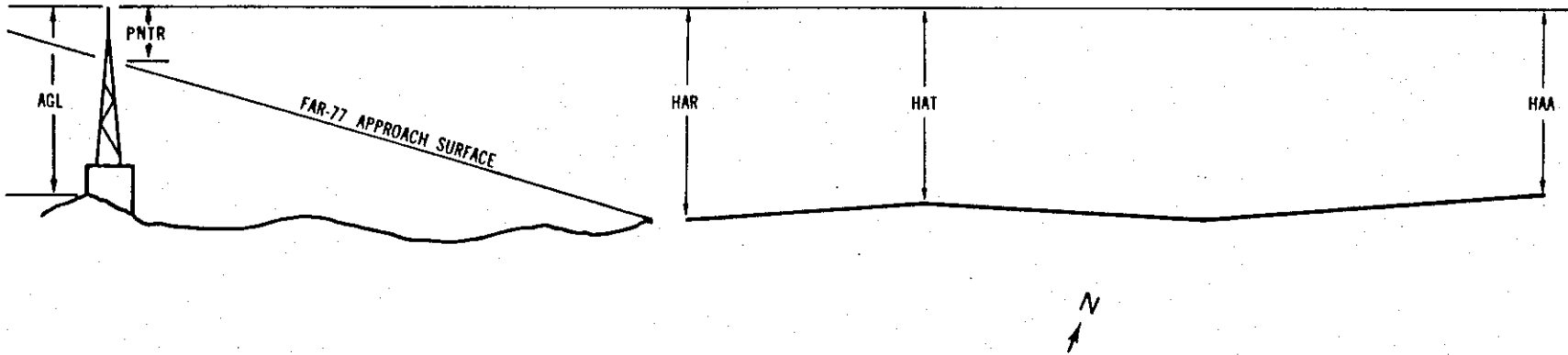
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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



(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 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).

OC0258

AIRPORT ELEVATION 2871

10 PIR 2868/2868 315651.519 -1021258.866 2933450.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	315621.77	-1021146.67	1A	2877		9	9	6	-6905		266R	23
TREE	315646.62	-1021237.51	1A	2873		5	5	2	-1884		283L	9
OL ON LIGHTED WINDSOCK	315649.34	-1021245.25	1A	2889		21	21	18	-1163		268L	24
ROD ON OL GLIDE SLOPE	315650.85	-1021245.47	1A	2910		42	42	39	-1085		400L	44
ROD ON OL TRANSMISSOMETER	315652.52	-1021248.34	1A	2885		17	17	14	-791		455L	19
FENCE	315656.20	-1021312.59	1A	2875		7	7	4	1273		39R	-14
BUILDING	315653.32	-1021315.16	1A	2882		14	14	11	1360		394R	-9

28 D 2853/ 315618.650 -1021130.581 1133537. 2853/2856 315621.389 -1021137.936

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL TRANSMISSOMETER	315652.52	-1021248.34	1A	2885		32	29	14	-7510	-6819	455R	19
ROD ON OL GLIDE SLOPE	315650.85	-1021245.47	1A	2910		57	54	39	-7216	-6525	400R	44
OL ON LIGHTED WINDSOCK	315649.34	-1021245.25	1A	2889		36	33	18	-7138	-6447	268R	24
TREE	315646.62	-1021237.51	1A	2873		20	17	2	-6417	-5725	283R	9
OL ON LIGHTED WINDSOCK	315621.77	-1021146.67	1A	2877		24	21	6	-1397	-705	266L	23
ROD ON OL DME	315614.50	-1021126.79	1A	2874		21	18	3	467	1159	253L	13
OL ON LOCALIZER	315616.68	-1021125.28	1A	2862		9	6	-9	499	1190	OR	0
RAILROAD	315613.16	-1021115.85	1A	2881		28	25	10	1385	2077	OR	-7
SIGN	315617.06	-1021103.31	1A	2912		59	56	41	2218	2909	794R	0

16L SUPLC 2863/ 315646.439 -1021150.866 3570937. 2863/2863 315645.507 -1021150.812

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	315621.77	-1021146.67	1A	2877		14	14	6	-2508	-2414	238L	25
FENCE POST	315648.24	-1021151.79	1A	2869		6	6	-2	186	280	71R	6
TREE	315649.01	-1021150.08	1A	2875		12	12	4	256	350	81L	10

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AIRPORT ELEVATION 2871

16L SUPLC 2863/ 315646.439 -1021150.866 3570937. 2863/2863 315645.507 -1021150.812

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	315649.12	-1021148.09	1A	2881		18	18	10	259	353	252L	16
ROAD (N)	315650.87	-1021151.00	1A	2880		17	17	9	448	542	11L	10
POLE	315659.02	-1021152.96	1A	2903		40	40	32	1279	1374	117R	8

34R SUPLC 2846/2855 315604.488 -1021148.426 1770939.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE POST	315648.24	-1021151.79	1A	2869		23	14	-2	-4431		71L	6
OL ON LIGHTED WINDSOCK	315621.77	-1021146.67	1A	2877		31	22	6	-1737		238R	25
ROAD (N)	315600.86	-1021145.09	1A	2860		14	5	-11	381		269R	9
ROAD (N)	315558.42	-1021147.95	1A	2861		15	6	-10	615		11R	3
POLE	315556.71	-1021149.05	1A	2864		18	9	-7	782		93L	1
RAILROAD	315556.76	-1021147.78	1A	2869		23	14	-2	783		17R	6

16R C 2871/2871 315733.859 -1021219.871 3550211.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	315609.94	-1021214.22	1A	2876		5	5	5	-8491		249R	25

34L C 2850/2857 315600.202 -1021210.333 1750217.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LIGHTED WINDSOCK	315609.94	-1021214.22	1A	2876		26	19	5	-1010		249L	25

OC0258

Continued from previous page

AIRPORT ELEVATION 2871

34L C 2850/2857 315600.202 -1021210.333 1750217.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	315550.02	-1021209.19	1A	2851		1	-6	-20	1034		9R	-24
RAILROAD	315545.82	-1021208.77	1A	2874		24	17	3	1460		9R	-13
POLE	315544.50	-1021212.58	1A	2878		28	21	7	1564		331L	-12

4 C 2850/2850 315554.130 -1021213.506 2333942.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LIGHT STANDARD	315535.26	-1021235.95	1A	2907		57	57	36	2688		390R	-16

22 C 2853/2853 315621.129 -1021130.460 534005.

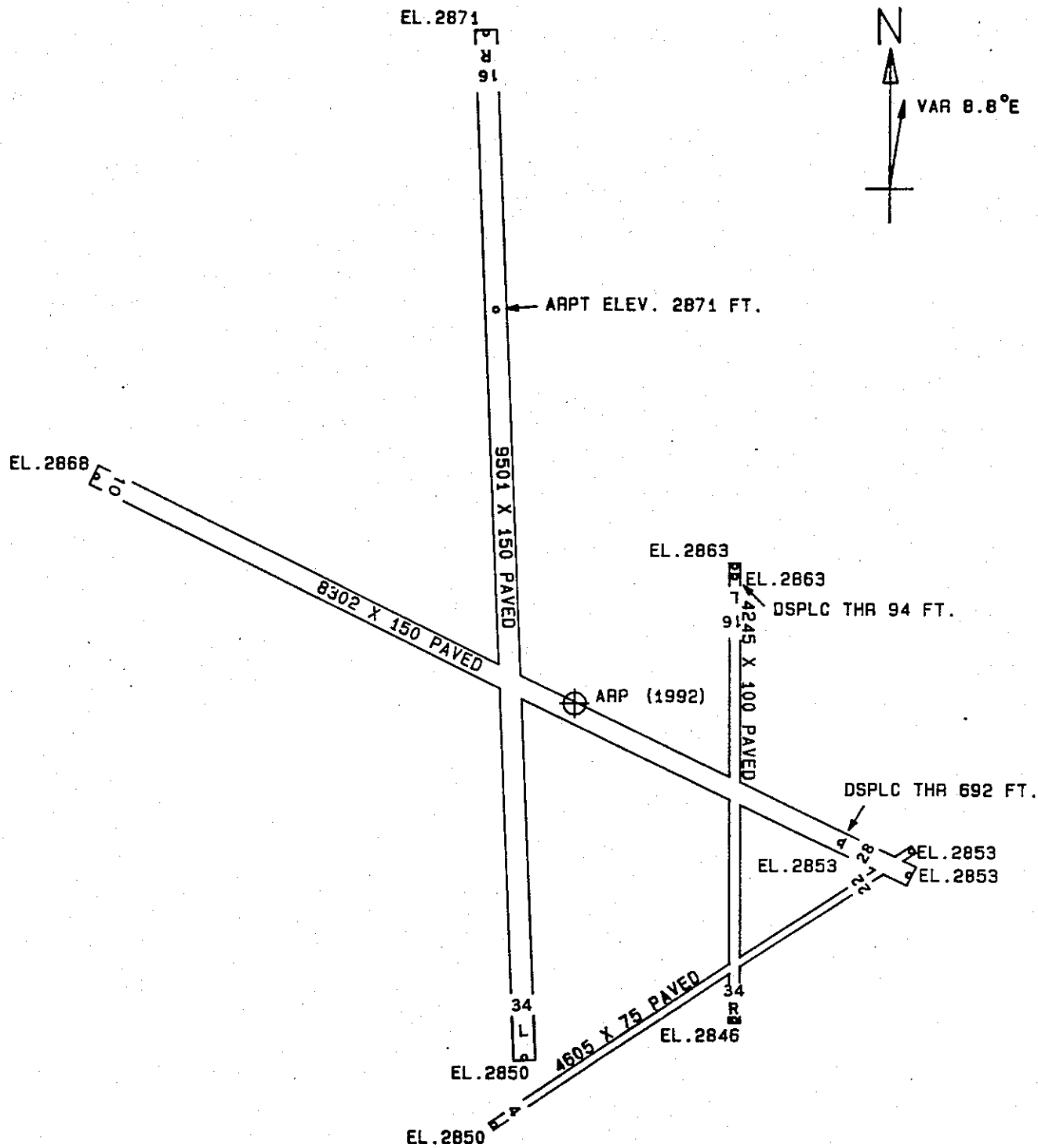
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	315628.87	-1021117.94	1A	2876		23	23	5	1333		9L	-10

0C0258

AIRPORT ELEVATION 2871

ARP 315633.068 -1021206.934

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON LIGHTED WINDSOCK	315621.64	-1021204.11	1A	2881		10	15917	1180
ROD ON OL ANEMOMETER	315616.25	-1021201.38	1A	2878		7	15528	1765
FENCE	315647.15	-1021153.89	1A	2869		-2	2929	1813
FLOODLIGHT POLE	315627.40	-1021228.92	1A	2911		40	24423	1979
OL ON FLOODLIGHT POLE	315618.26	-1021223.07	1A	2932		61	21406	2043
FENCE POST	315646.86	-1021147.84	1A	2868		-3	4056	2157
ANTENNA ON OL ATCT	315628.00	-1021235.01	1A	2976		105	24914	2473
ANTENNA ON OL RTR TOWER	315652.44	-1021233.16	1A	2910		39	30205	2990
ANTENNA & APBN ON OL TANK	315614.67	-1021238.95	1B	3028		157	22714	3327
ROD ON OL RADAR DOME	315634.48	-1021126.37	1A	2949		78	7851	3499
SIGN	315603.74	-1021144.14	1A	2875		4	13739	3556
POLE	315601.44	-1021144.70	1A	2874		3	14015	3727
DOVE	315633.76	-1021123.57	1A	2900		29	8007	3737
HANGAR	315608.79	-1021131.82	1A	2886		15	12014	3896
ANTENNA ON OL RTR TOWER	315555.01	-1021159.76	1A	2880		9	16204	3896
POLE	315610.28	-1021127.69	1A	2884		13	11526	4092
HANGAR	315552.39	-1021228.04	1A	2905		34	19504	4495
ROD ON OL TRANSMISSOMETER	315655.62	-1021252.72	1A	2885		14	29113	4557
POLE	315619.12	-1021110.56	1A	2895		24	9722	5059
OL ON LIGHTED WINDSOCK	315724.07	-1021215.66	1A	2892		21	34253	5209
VENT ON BUILDING	315623.91	-1021106.33	1A	2904		33	9114	5304
ANTENNA ON OL TOWER	315545.69	-1021245.80	1A	2964		93	20610	5843



MIDLAND INTERNATIONAL AIRPORT
 MIDLAND, TEXAS
 (NOT TO SCALE)

**TOUCHDOWN ZONE
 RUNWAY ELEVATION**

4	2850
22	2853
10	2868
28	2856
16L	2863
34R	2855
16R	2871
34L	2857