OBSTRUCTION DATA SHEET

ODS 5427
RICHARD LLOYD JONES JR. AIRPORT
TULSA, OKLAHOMA

DIGITIZED FROM

OC 5427
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HORIZONTAL DATUM NAD83
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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).

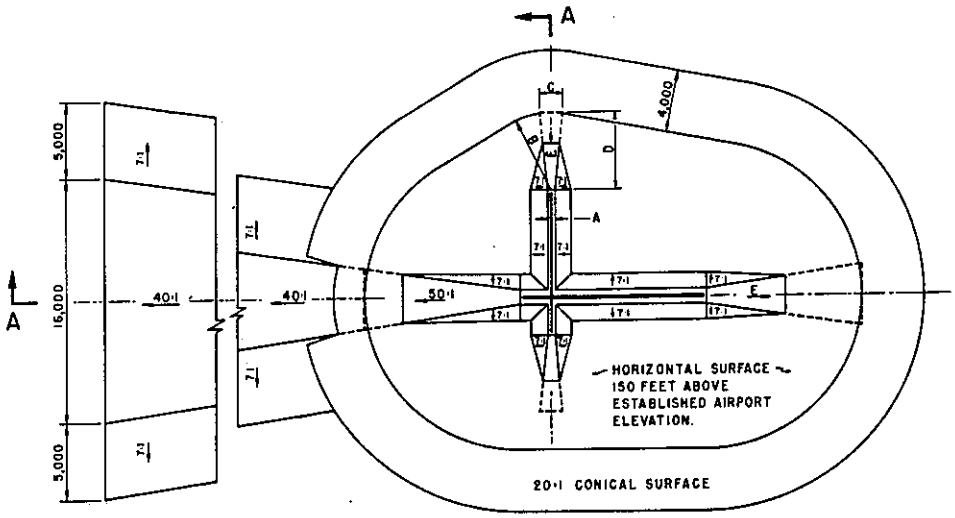
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

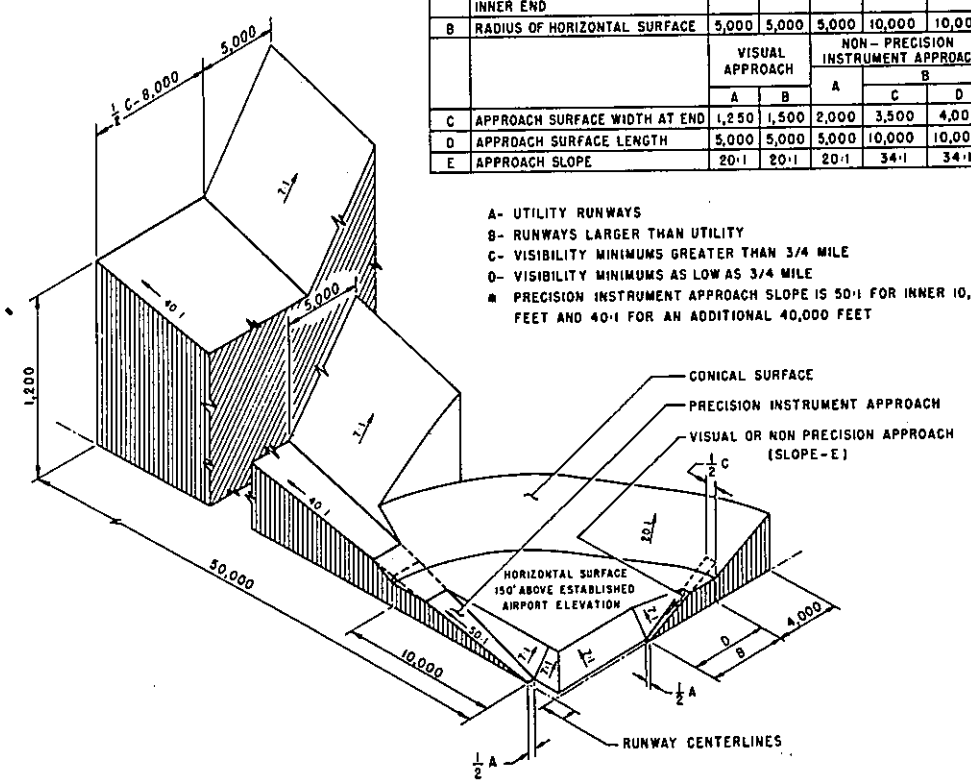
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision 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 C	B 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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B C	B 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] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.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]
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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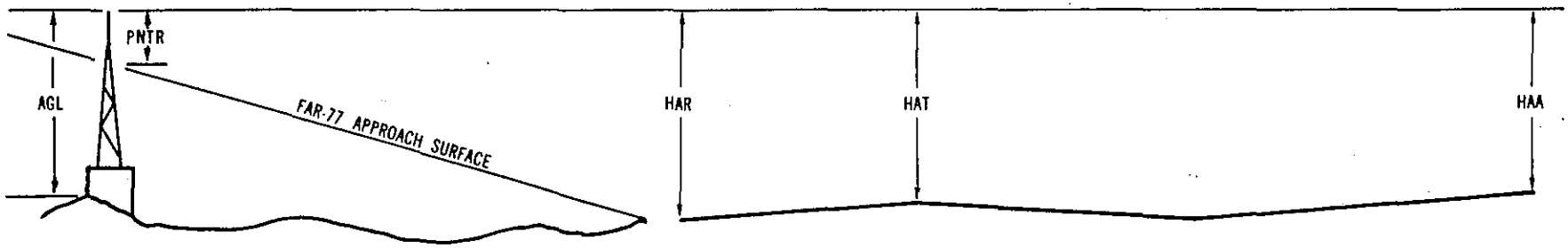

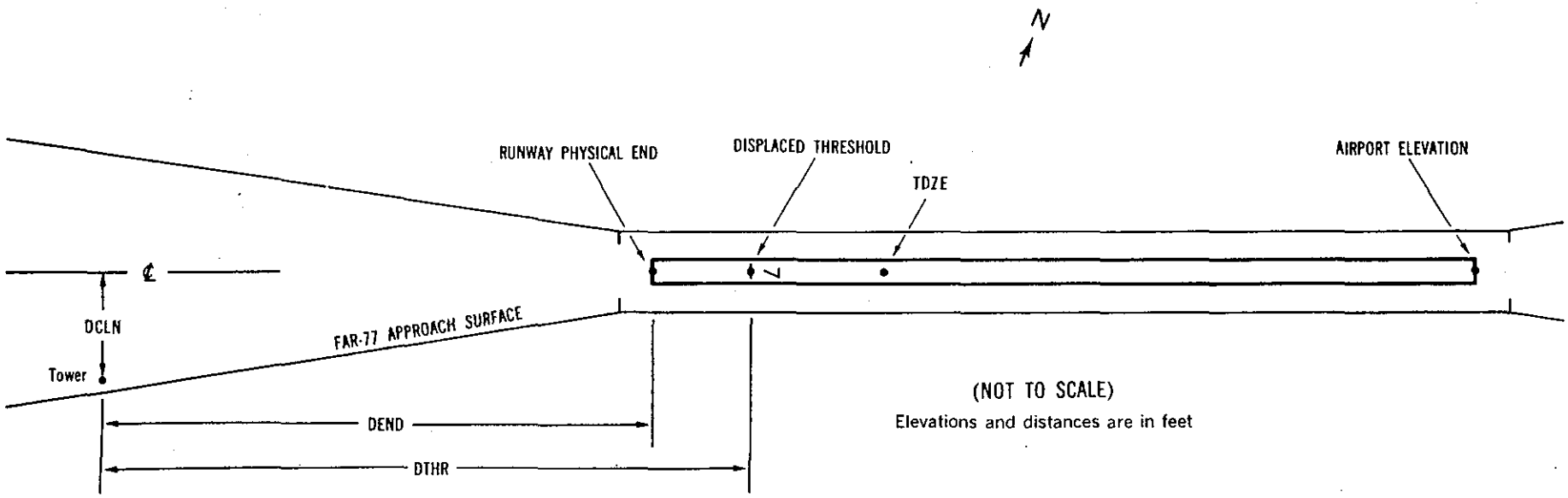

(NOT TO SCALE)

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 <u>appearing on the OC</u> 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).

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AIRPORT ELEVATION 638

13 AV 624/ 360230.558 -955915.097 1330319.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LEVEE	360237.30	-955924.00	1A	630		6		-8	1000		1R	-34
TREE	360236.14	-955925.68	1A	663		39		25	1020		181R	-2
TREE	360239.65	-955927.97	1A	690		66		52	1400		50R	6
TREE	360242.51	-955927.59	1A	709		85		71	1575		183L	17
TREE	360243.43	-955933.45	1A	714		90		76	1990		78R	1

31 AV 614/ 360211.604 -955850.121 3130334.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	360158.62	-955832.98	1A	631		17		-7	1925		2R	-70

AIRPORT ELEVATION 638

1L PIR 621/ 625 360158.900 -955916.351 132022.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WINDSOCK	360234.55	-955903.43	1A	633		12	8	-5	-3752		201R	8
OL ON WINDSOCK	360212.07	-955907.60	1A	649		28	24	11	-1462		392R	25
OL ANEMOMETER	360210.17	-955907.59	1A	645		24	20	7	-1275		437R	21
ROAD (N)	360153.38	-955925.13	1A	634		13	9	-4	709		573L	3
TREE	360143.81	-955913.79	1A	661		40	36	23	1436		556R	15
TREE	360140.21	-955913.69	1A	684		63	59	46	1789		649R	31
TREE	360138.17	-955913.11	1A	687		66	62	49	1978		743R	30
TREE	360139.20	-955918.56	1A	682		61	57	44	1980		283R	25
TREE	360137.65	-955915.72	1A	675		54	50	37	2078		546R	16
TREE	360135.67	-955923.23	1A	682		61	57	44	2416		8L	16
TREE	360133.26	-955919.72	1A	690		69	65	52	2587		329R	21
TREE	360125.64	-955919.97	1A	702		81	77	64	3341		487R	18
TREE	360123.08	-955921.60	1A	692		71	67	54	3623		416R	2
TREE	360123.29	-955925.96	1A	698		77	73	60	3686		63R	7
TREE	360109.75	-955935.63	1A	709		88	84	71	5201		394L	-12
TRANSMISSION TOWER	355944.36	-955947.42	1A	812		191	187	174	13826		655R	-100

19R SUPLC 638/ 638 360247.978 -955902.021 1932030.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ANEMOMETER	360210.17	-955907.59	1A	645		7	7	7	-3825		437L	21
OL ON WINDSOCK	360212.07	-955907.60	1A	649		11	11	11	-3638		392L	25
OL ON WINDSOCK	360234.55	-955903.43	1A	633		-5	-5	-5	-1348		201L	8
TREE	360258.25	-955905.02	1A	658		20	20	20	954		479R	-2
TREE	360310.25	-955853.27	1A	700		62	62	62	2357		179L	-1

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AIRPORT ELEVATION 638

1R SUPLC 619/ 623 360202.531 -955906.523 132009.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	360244.74	-955853.26	1A	638		19	15	0	-4404		75R	8
CEILOMETER	360205.99	-955908.01	1A	624		5	1	-14	-312		200L	5
TREE	360154.15	-955905.06	1A	657		38	34	19	797		313R	21
TREE	360143.81	-955913.79	1A	661		42	38	23	1979		144L	-10
TREE	360140.21	-955913.69	1A	684		65	61	46	2332		52L	3
TREE	360138.17	-955913.11	1A	687		68	64	49	2522		42R	0
TREE	360139.20	-955918.56	1A	682		63	59	44	2523		418L	-5
TREE	360137.65	-955915.72	1A	675		56	52	37	2622		155L	-15
TREE	360136.14	-955912.19	1A	694		75	71	56	2704		163R	2
TREE	360133.26	-955919.72	1A	690		71	67	52	3130		372L	-15
TREE	360130.28	-955910.01	1A	696		77	73	58	3239		473R	-12
TREE	360125.49	-955911.48	1A	706		87	83	68	3738		468R	-17
TREE	360125.64	-955919.97	1A	702		83	79	64	3884		214L	-25
TREE	360123.08	-955921.60	1A	692		73	69	54	4167		285L	-43
TREE	360123.29	-955925.96	1A	698		79	75	60	4229		638L	-39

19L SUPLC 630/ 360243.008 -955854.709 1932016. 630/ 630 360241.621 -955855.113

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
CEILOMETER	360205.99	-955908.01	1A	624		-6	-6	-14	-3895	-3751	200R	5
ROAD (N)	360244.74	-955853.26	1A	638		8	8	0	198	342	75L	8
TREE	360244.46	-955851.33	1A	657		27	27	19	206	351	236L	27
RAILROAD	360245.49	-955852.28	1A	646		16	16	8	290	434	136L	13
TREE	360245.87	-955851.14	1A	653		23	23	15	349	493	218L	19
RAILROAD	360247.32	-955853.08	1A	646		16	16	8	455	599	29L	9
POLE	360252.23	-955850.53	1A	664		34	34	26	986	1130	119L	11
TREE	360300.71	-955846.60	1A	690		60	60	52	1895	2039	235L	10
TREE	360302.54	-955848.14	1A	698		68	68	60	2046	2190	69L	14
TREE	360310.25	-955853.27	1A	700		70	70	62	2708	2852	521R	-4

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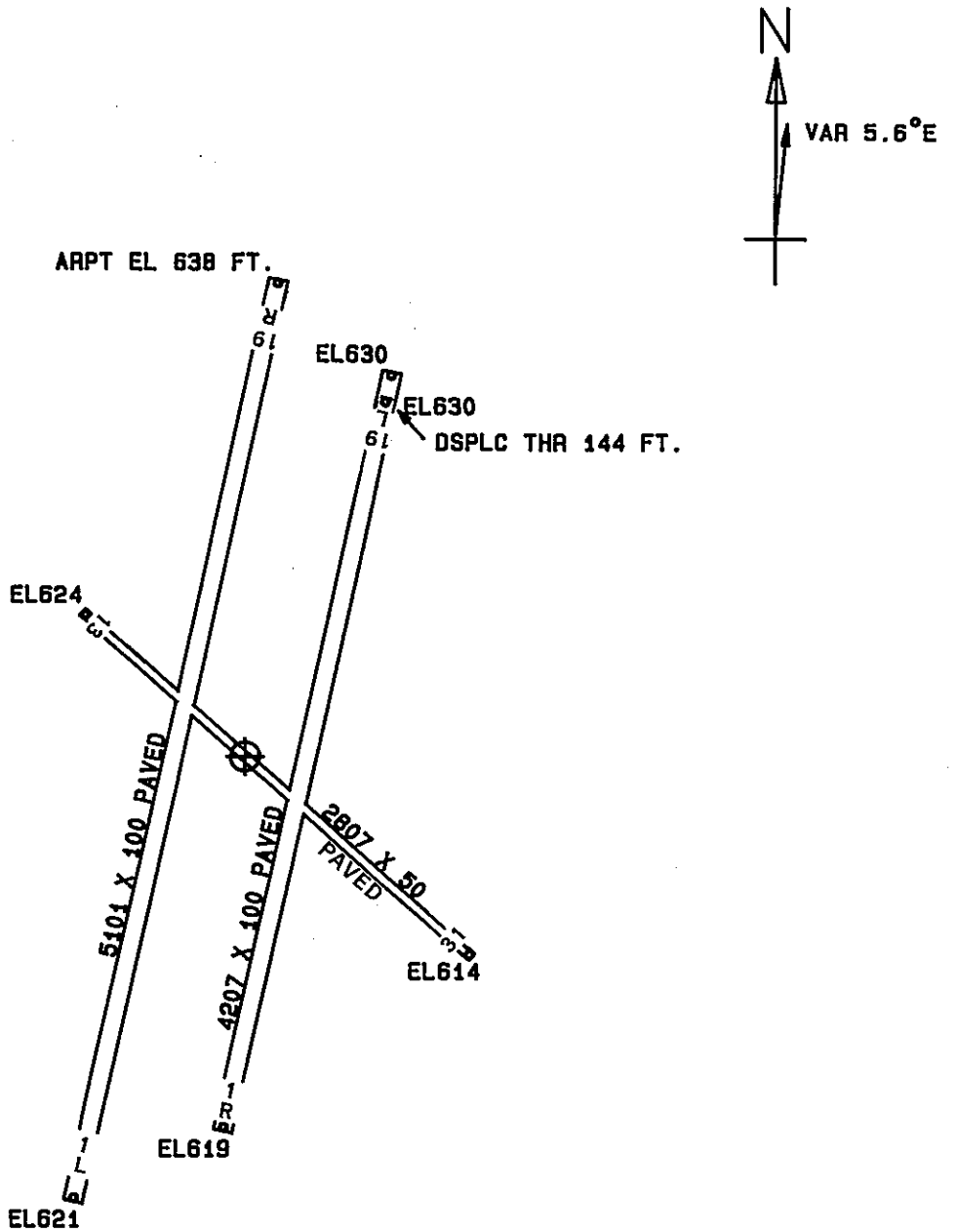
AIRPORT ELEVATION 638

ARP 360222.660 -955904.686

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
LIGHT ON POLE	360219.07	-955853.76	1A	645		7	10626	968
HANGAR	360235.29	-955915.26	1A	640		2	32010	1544
OL ON APBN	360214.12	-955922.63	1A	680		42	23401	1708
TREE	360235.58	-955850.97	1A	689		51	3510	1725
GROUND	360208.96	-955850.86	1A	619		-19	13504	1792
OL RTR TWR	360204.49	-955855.88	1A	682		44	15254	1975
TREE	360239.66	-955850.63	1A	684		46	2816	2071
ANT ON OL ATCT	360209.13	-955925.25	1A	707		69	22523	2174
TREE	360240.71	-955924.12	1A	687		49	31313	2425
POLE	360247.80	-955849.16	1A	673		35	2102	2844
TREE	360148.16	-955904.98	1A	671		33	17447	3489
TRMSN TWR	360216.55	-955808.20	1B	769		131	9159	4680
TRMSN TWR	360230.87	-955752.51	1B	766		128	7625	5985
TREE	360246.05	-960042.71	1B	806		168	28046	8390
POLE	360342.96	-955937.80	1B	805		167	33553	8563
TRANSMISSION POLE	360346.42	-955937.77	1B	833		195	33637	8895
OL BUILDING	360235.32	-955712.59	1A	1273	652	635	7628	9295
POLE	360327.75	-960026.69	1B	866		228	30845	9416
TREE	360335.49	-960018.95	1B	872		234	31446	9561
TANK	360313.53	-960042.99	1B	915		277	29654	9572
TRMSN POLE	360356.09	-955924.54	1B	817		179	34436	9587
TREE	360403.08	-955921.36	1B	946		308	34643	10246
OL TOWER	360302.63	-955708.56	1A	854	213	216	6125	10357
TREE	360347.27	-960021.49	1B	862		224	31800	10629
TRMSN POLE	360405.39	-955937.12	1B	853		215	34001	10723
TREE	360410.46	-955929.84	1B	931		293	34340	11094
TRANSMISSION POLE	360412.14	-955937.83	1B	965		327	34035	11400
TREE	360411.78	-955947.28	1B	904		266	33649	11575
TREE	360413.47	-955957.21	1B	904		266	33321	12006



TOUCHDOWN ZONE RUNWAY	ELEVATION
1L	625
19R	638
1R	623
19L	630

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(NOT TO SCALE)