OBSTRUCTION DATA SHEET

ODS 5457
DAVID WAYNE HOOKS MEMORIAL AIRPORT
HOUSTON, TEXAS

DIGITIZED FROM

OC 5457
SURVEYED MARCH 1990
1ST EDITION

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THE NATIONAL OCEAN SERVICE
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FOR THE FEDERAL AVIATION ADMINISTRATION

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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).

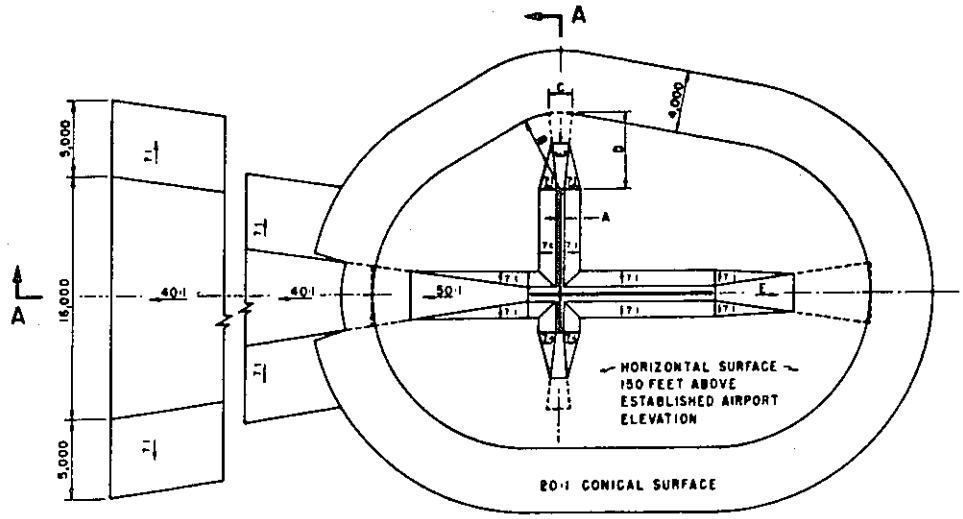
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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)

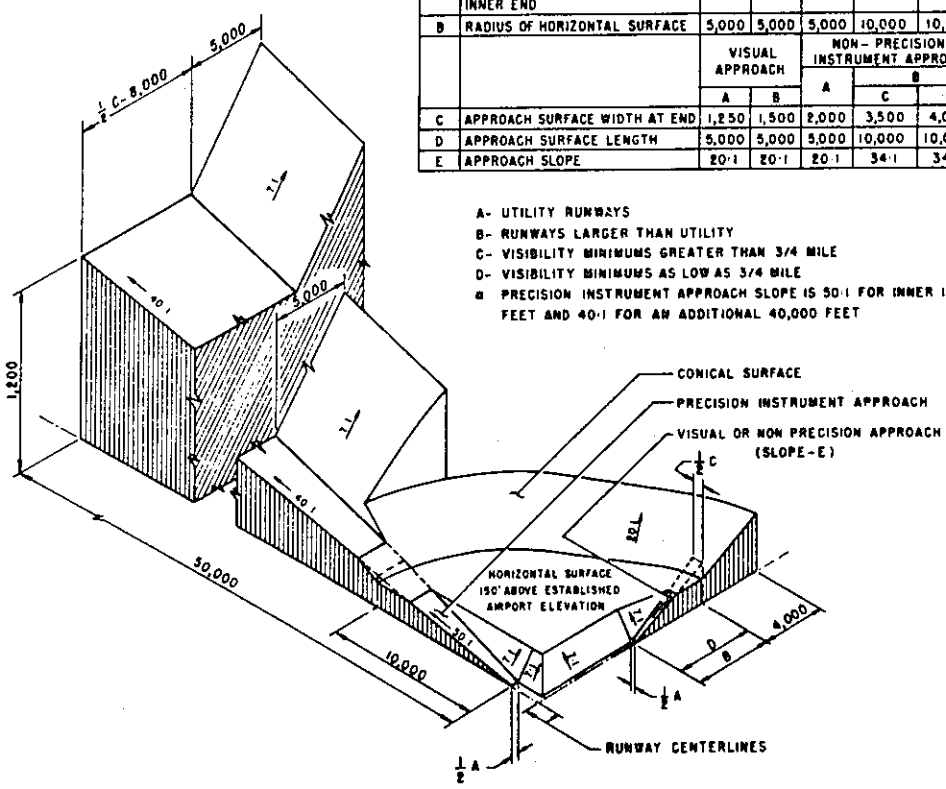
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	B		
					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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					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	a
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	a

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
a 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]
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX			XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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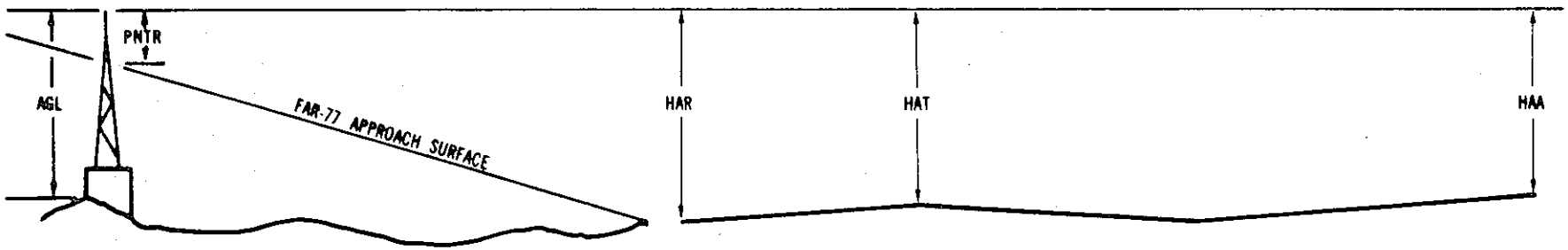

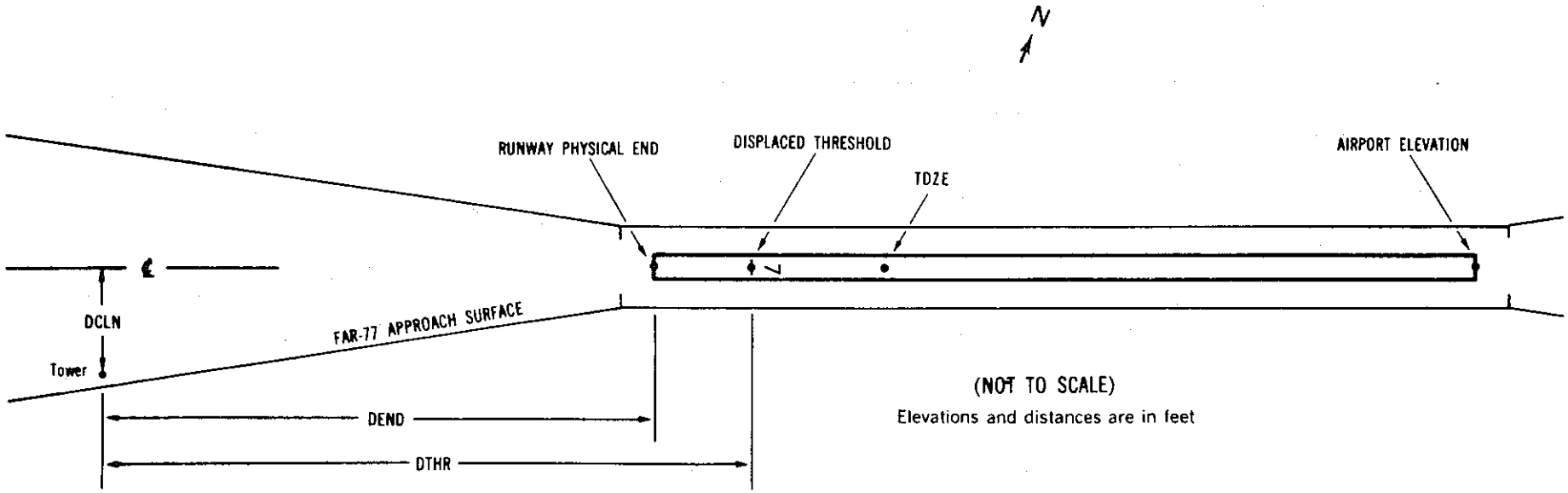

(NOT TO SCALE)

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 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).

OC5457

AIRPORT ELEVATION 152

17L A(V) 150/150 300349.458N 09533 7.892W 3525046

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON DME	300308.22	0953302.65	1A	162		12	12	10	-4190		61R	18
PUMP	300343.43	0953307.93	1A	155		5	5	3	-604		79R	6
TREE	300413.78	0953310.10	1A	180		30	30	28	2462		114L	-83
TREE	300416.09	0953312.19	1A	181		31	31	29	2717		40R	-95
TREE	300418.55	0953312.16	1A	186		36	36	34	2963		6R	-102
TREE	300424.46	0953313.64	1A	175		25	25	23	3572		61R	-144
OL ON POLE	300424.38	0953318.42	1A	168		18	18	16	3616		479R	-153
TREE	300424.89	0953314.41	1A	171		21	21	19	3623		123R	-150
TREE	300425.83	0953317.92	1A	169		19	19	17	3756		416R	-159
ROAD (N)	300426.24	0953316.99	1A	166		16	16	14	3786		331R	-163
TREE	300426.66	0953314.60	1A	175		25	25	23	3802		116R	-155
TREE	300428.53	0953311.72	1A	200		50	50	48	3958		158L	-138
POLE	300428.18	0953318.88	1A	177		27	27	25	4001		471R	-163
VENT ON BUILDING	300429.17	0953317.52	1A	173		23	23	21	4086		340R	-171
TREE	300430.92	0953313.88	1A	203		53	53	51	4221		0R	-148
TREE	300431.48	0953316.34	1A	201		51	51	49	4304		208R	-154
TREE	300435.38	0953318.69	1A	208		58	58	56	4722		363R	-168

35R A(V) 144/ 300310.204N 09533 2.229W 1725049 144/148 300311.200N 09533 2.373W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
PUMP	300343.43	0953307.93	1A	155		11	7	3	-3393	-3291	79L	6
OL ON DME	300308.22	0953302.65	1A	162		18	14	10	194	295	61L	18
BUSH	300306.91	0953302.98	1A	162		18	14	10	322	424	107L	12
TREE	300305.70	0953300.11	1A	163		19	15	11	475	576	128R	5
TREE	300304.93	0953301.66	1A	164		20	16	12	535	636	16L	3
TREE	300252.76	0953258.97	1A	206		62	58	54	1784	1886	65R	-17
TREE	300250.16	0953302.01	1A	217		73	69	65	2011	2113	233L	-18

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AIRPORT ELEVATION 152

17R C 150/ 300423.058N 0953316.506W 3524453 151/152 300411.169N 0953314.767W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	300315.76	0953307.68	1A	152		2	0	0	-6842	-5631	89R	7
TREE	300322.97	0953310.33	1A	171		21	19	19	-6090	-4879	228R	25
BUSH	300325.31	0953309.56	1A	155		5	3	3	-5864	-4653	131R	9
BUSH	300330.41	0953310.72	1A	159		9	7	7	-5340	-4129	167R	12
WINDSOCK	300335.97	0953312.02	1A	167		17	15	15	-4769	-3558	210R	18
GROUND	300340.01	0953311.82	1A	151		1	-1	-1	-4366	-3155	141R	1
PUMP	300343.43	0953307.93	1A	155		5	3	3	-4066	-2856	243L	3
GROUND	300348.32	0953312.92	1A	153		3	1	1	-3521	-2310	130R	1
GROUND	300417.04	0953318.65	1A	153		3	1	1	-580	631	263R	3
TREE	300424.46	0953313.64	1A	175		25	23	23	109	1320	268L	25
OL ON POLE	300424.38	0953318.42	1A	168		18	16	16	154	1364	150R	18
TREE	300424.89	0953314.41	1A	171		21	19	19	160	1371	206L	21
TREE	300425.83	0953317.92	1A	169		19	17	17	294	1504	88R	16
ROAD (N)	300426.24	0953316.99	1A	166		16	14	14	324	1535	2R	12
TREE	300426.66	0953314.60	1A	175		25	23	23	340	1550	212L	21
TREE	300427.21	0953320.42	1A	178		28	26	26	459	1670	288R	20
POLE	300428.18	0953318.88	1A	177		27	25	25	539	1750	142R	17
VENT ON BUILDING	300429.17	0953317.52	1A	173		23	21	21	624	1835	11R	11
POLE	300429.38	0953320.85	1A	183		33	31	31	682	1893	298R	19
TREE	300430.92	0953313.88	1A	203		53	51	51	758	1969	329L	37
TREE	300431.48	0953316.34	1A	201		51	49	49	842	2053	122L	32
TREE	300431.61	0953321.03	1A	212		62	60	60	907	2118	285R	41
TREE	300435.38	0953318.69	1A	208		58	56	56	1260	2470	33R	27
OL ON TRANSMISSION TOWER	300441.09	0953315.98	1A	215		65	63	63	1801	3012	276L	18
TREE	300452.72	0953315.84	1A	242		92	90	90	2965	4176	437L	11
TREE	300453.18	0953317.86	1A	239		89	87	87	3033	4244	266L	6

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AIRPORT ELEVATION 152

35L C 145/152 300314.320N 09533 6.452W 1724458

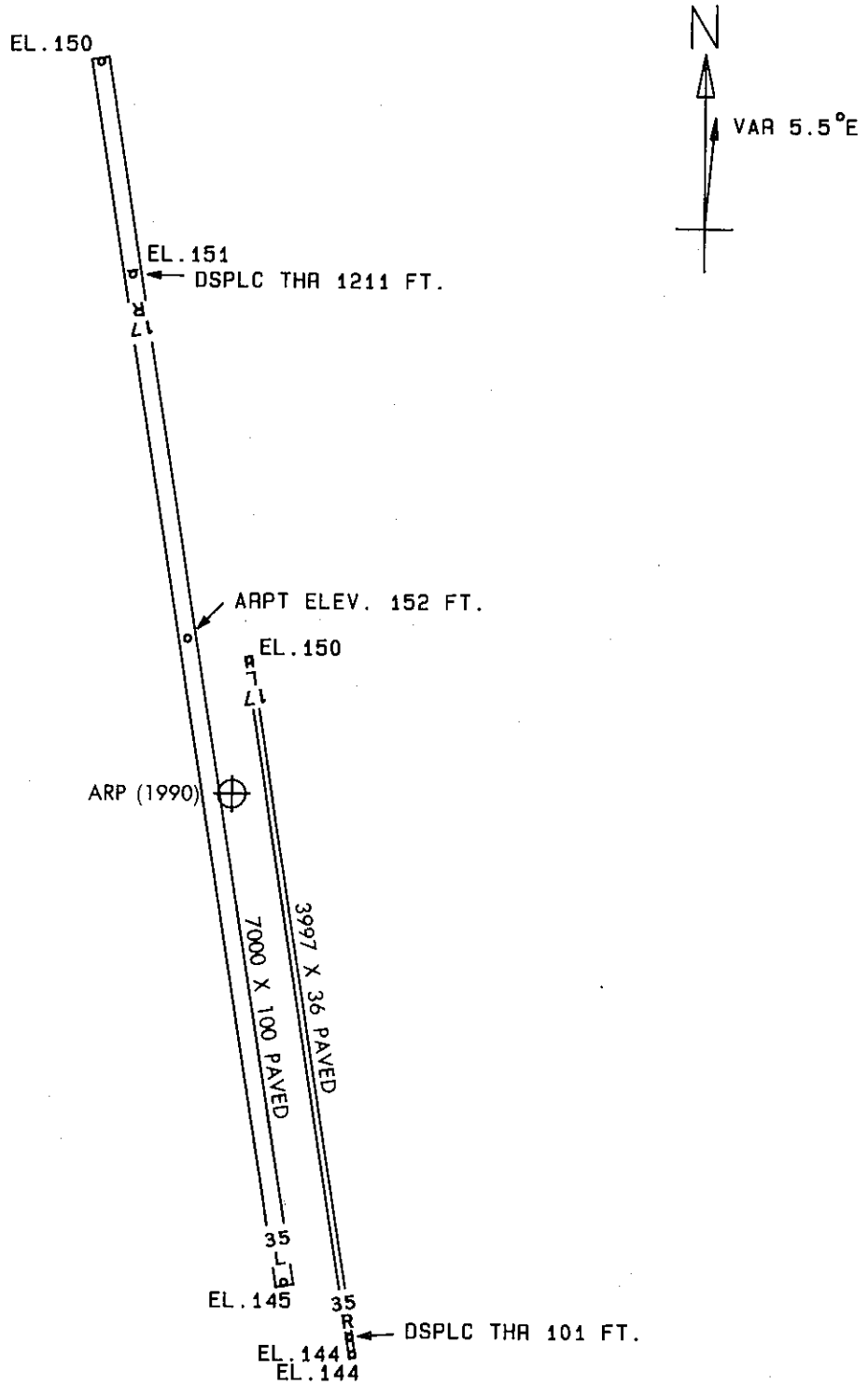
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	300424.89	0953314.41	1A	171		26	19	19	-7160		206R	21
OL ON POLE	300424.38	0953318.42	1A	168		23	16	16	-7154		150L	18
TREE	300424.46	0953313.64	1A	175		30	23	23	-7109		268R	25
GROUND	300417.04	0953318.65	1A	153		8	1	1	-6420		263L	3
GROUND	300348.32	0953312.92	1A	153		8	1	1	-3479		130L	1
PUMP	300343.43	0953307.93	1A	155		10	3	3	-2934		243R	3
GROUND	300340.01	0953311.82	1A	151		6	-1	-1	-2634		141L	1
WINDSOCK	300335.97	0953312.02	1A	167		22	15	15	-2231		210L	18
BUSH	300330.41	0953310.72	1A	159		14	7	7	-1660		167L	12
BUSH	300325.31	0953309.56	1A	155		10	3	3	-1136		131L	9
TREE	300322.97	0953310.33	1A	171		26	19	19	-910		228L	25
BUSH	300315.76	0953307.68	1A	152		7	0	0	-158		89L	7
OL ON DME	300308.22	0953302.65	1A	162		17	10	10	653		254R	4
OL ON LOCALIZER	300307.90	0953305.52	1A	152		7	0	0	653		1L	-6
BUSH	300306.91	0953302.98	1A	162		17	10	10	781		208R	1
TREE	300304.93	0953301.66	1A	164		19	12	12	994		298R	-4
TREE	300252.76	0953258.97	1A	206		61	54	54	2243		377R	1
TREE	300250.16	0953302.01	1A	217		72	65	65	2470		79R	5

OC5457

AIRPORT ELEVATION 152

ARP 300341.835N 0953309.146W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL ANEMOMETER	300346.86	0953316.10	1A	175		23	304 14	794
TREE	300333.12	0953312.90	1A	182		30	195 3	940
ANTENNA ON OL CONTROL TR	300400.25	0953320.54	1A	233		81	326 12	2112
OL ON LIGHTED WINDSOCK	300405.77	0953317.11	1A	181		29	338 22	2517
TREE	300316.00	0953310.91	1A	168		16	177 53	2615
TREE	300410.83	0953321.79	1A	214		62	333 44	3133
TREE	300310.01	0953310.42	1A	167		15	176 30	3217
OL ON HANGAR	300308.64	0953259.74	1A	173		21	160 39	3453
OL ON HANGAR	300417.26	0953320.72	1A	181		29	338 38	3720
ANTENNA ON OL HANGAR	300423.43	0953321.59	1A	202		50	339 55	4342
OL ON HANGAR	300425.78	0953321.92	1A	188		36	340 18	4579
TREE	300430.47	0953322.30	1A	198		46	341 16	5047



TOUCHDOWN ZONE RUNWAY	ELEVATION
17L	150
35R	148
17R	152
35L	152

DAVID WAYNE HOOKS MEMORIAL AIRPORT

HOUSTON, TEXAS

(NOT TO SCALE)