OBSTRUCTION DATA SHEET

ODS 322
PHOENIX SKY HARBOR AIRPORT
PHOENIX, ARIZONA

DIGITIZED FROM

OC 322
SURVEYED JANUARY 1992
12TH EDITION

HORIZONTAL DATUM NAD83
VERTICAL DATUM NGVD29

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

ATTENTION

See SPECIAL NOTICES in "Dates of Latest Editions, Airport Obstruction Charts - Obstruction Data Sheets," for possible corrections. National Oceanic and Atmospheric Administration (NOAA) publications are available through NOAA Distribution Branch (N/CG33), National Ocean Service, Riverdale, MD 20737. Telephone: 301-436-6990

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).

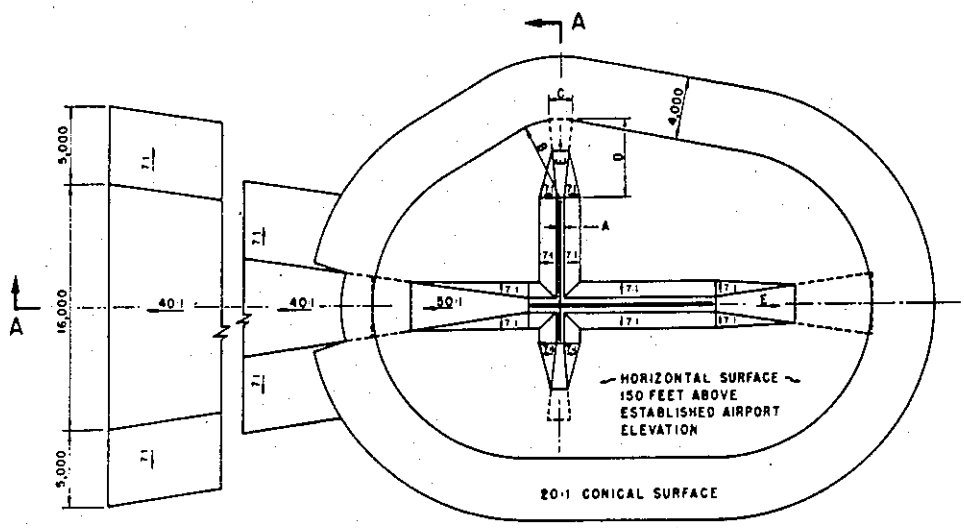
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

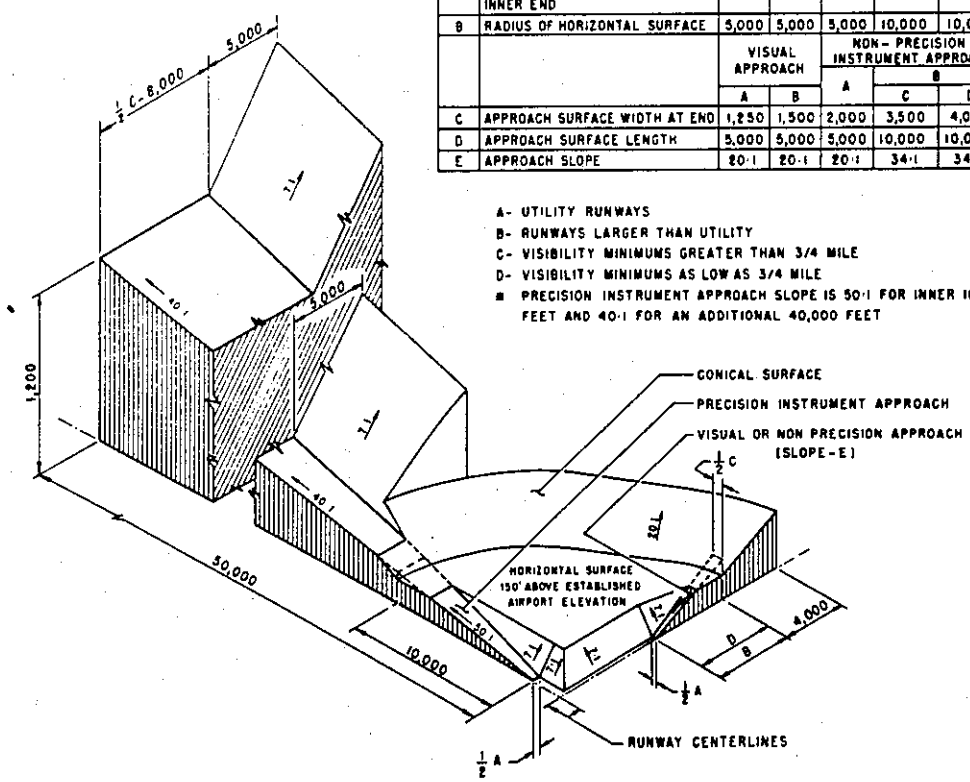
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision 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	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	*
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

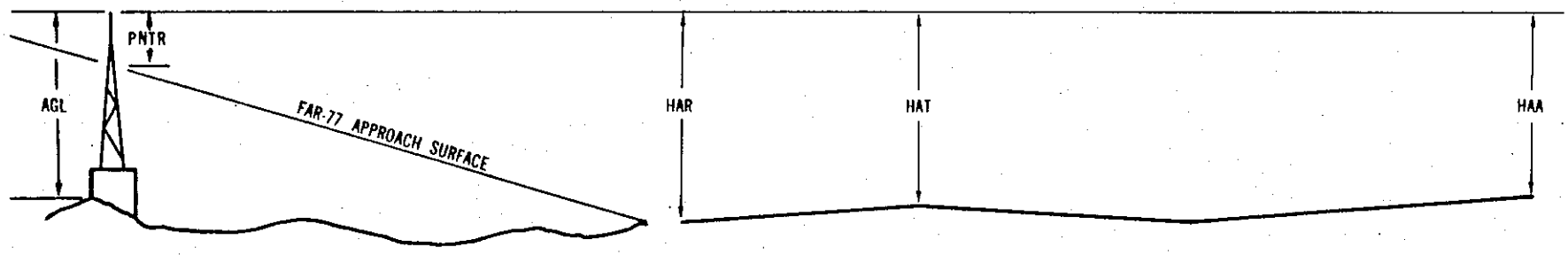
OC XXXX

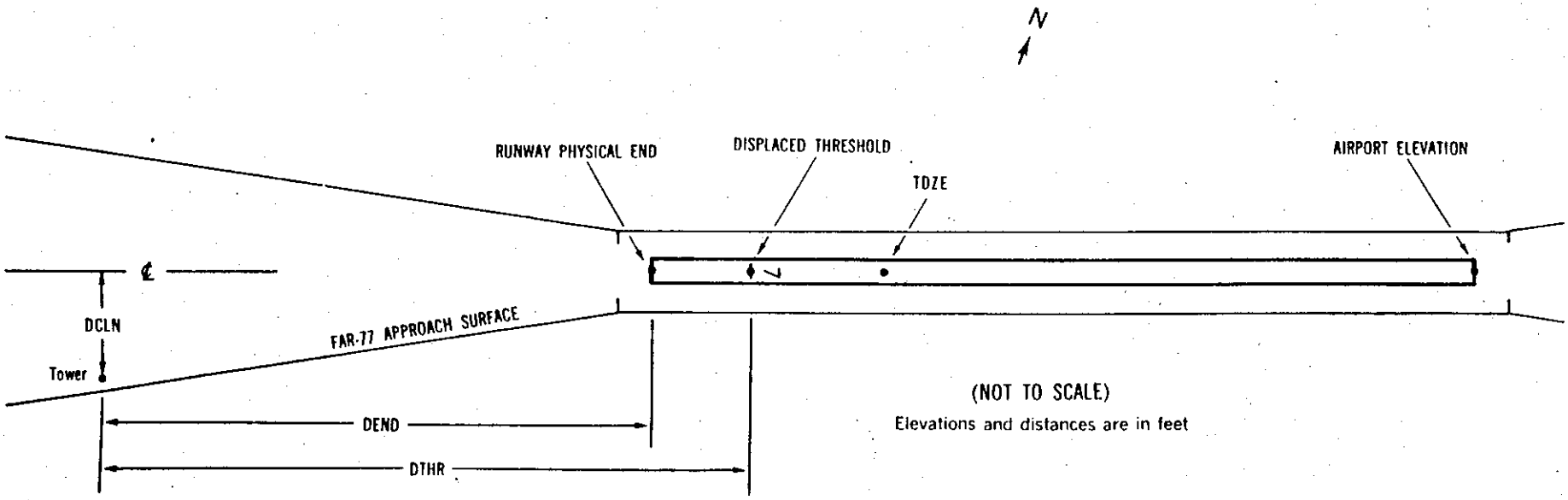
AIRPORT ELEVATION XXXX

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]
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

****





(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).

OC0322

AIRPORT ELEVATION 1133

8L SUPLC 1108/1115 332627.086 -1120136.701 2700343.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON BLAST FENCE	332623.49	-1120140.34	1A	1118		10	3	-15	308		364R	7
OL HANGAR	332630.91	-1120141.30	1A	1123		15	8	-10	390		386L	9
OL LIGHT STANDARD	332627.74	-1120148.01	1A	1125		17	10	-8	959		65L	-5
OL LIGHT STANDARD	332626.42	-1120148.08	1A	1125		17	10	-8	964		68R	-5
LIGHT STANDARD	332631.41	-1120148.22	1A	1140		32	25	7	977		436L	9
LIGHT STANDARD	332622.62	-1120148.24	1A	1136		28	21	3	977		453R	5
TREE	332632.58	-1120148.66	1A	1150		42	35	17	1014		554L	18

26R PIR 1133/1133 332626.950 -1115926.884 900455.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	332622.74	-1115923.11	1A	1135		2	2	2	320		425L	0
ROAD (N)	332632.29	-1115921.00	1A	1142		9	9	9	498		540R	3
OL ON LIGHT STANDARD	332622.05	-1115920.78	1A	1139		6	6	6	518		495L	0
OL ON LIGHT STANDARD	332624.45	-1115918.12	1A	1139		6	6	6	743		252L	-5
LIGHT STANDARD	332630.65	-1115916.93	1A	1147		14	14	14	843		375R	1
LIGHT STANDARD	332627.52	-1115916.70	1A	1148		15	15	15	863		59R	2
LIGHT STANDARD	332624.10	-1115915.65	1A	1153		20	20	20	952		286L	5
LIGHT STANDARD	332621.03	-1115913.64	1A	1158		25	25	25	1123		597L	7
TREE	332629.86	-1115910.27	1A	1155		22	22	22	1407		296R	-2
POLE	332634.73	-1115858.42	1A	1191		58	58	58	2411		790R	14
OL ON POWER POLE	332632.45	-1115851.58	1A	1202		69	69	69	2990		561R	13
OL ON POWER POLE	332627.58	-1115849.88	1A	1204		71	71	71	3135		69R	12
LIGHT STANDARD	332633.31	-1115848.85	1A	1220		87	87	87	3222		647R	27
LIGHT STANDARD	332628.85	-1115848.10	1A	1211		78	78	78	3286		197R	16
BUILDING	332634.79	-1115846.97	1A	1203		70	70	70	3381		797R	6
LIGHT STANDARD	332623.82	-1115846.76	1A	1196		63	63	63	3400		312L	-1
LIGHT STANDARD	332618.82	-1115845.56	1A	1191		58	58	58	3503		816L	-8
TREE	332629.60	-1115844.14	1A	1202		69	69	69	3621		273R	1
POWER POLE	332624.36	-1115806.79	1A	1243		110	110	110	6787		252L	-22
ANTENNA ON OL RADIO TOWER	332635.97	-1115626.59	1A	1471		338	338	338	15275		937R	11

OC0322

AIRPORT ELEVATION 1133

8R PIR 1107/1112 332551.794 -1120137.564 2700202.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LIGHT STANDARD	332556.85	-1120148.43	1A	1120		13	8	-13	921		511L	-1
OL ON LIGHT STANDARD	332545.99	-1120148.58	1A	1118		11	6	-15	934		588R	-4
OL TRAFFIC LIGHT	332553.37	-1120148.72	1A	1121		14	9	-12	945		159L	-1
LIGHT STANDARD	332553.10	-1120150.15	1A	1123		16	11	-10	1067		132L	-1
LIGHT STANDARD	332544.35	-1120215.31	1A	1173		66	61	40	3198		754R	6
LIGHT STANDARD	332558.07	-1120215.36	1A	1169		62	57	36	3203		633L	2

26L C 1130/1130 332551.717 -1115936.040 900309.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON DME	332554.13	-1115919.07	1A	1145		15	15	12	1438		245R	-21

OC0322

AIRPORT ELEVATION 1133

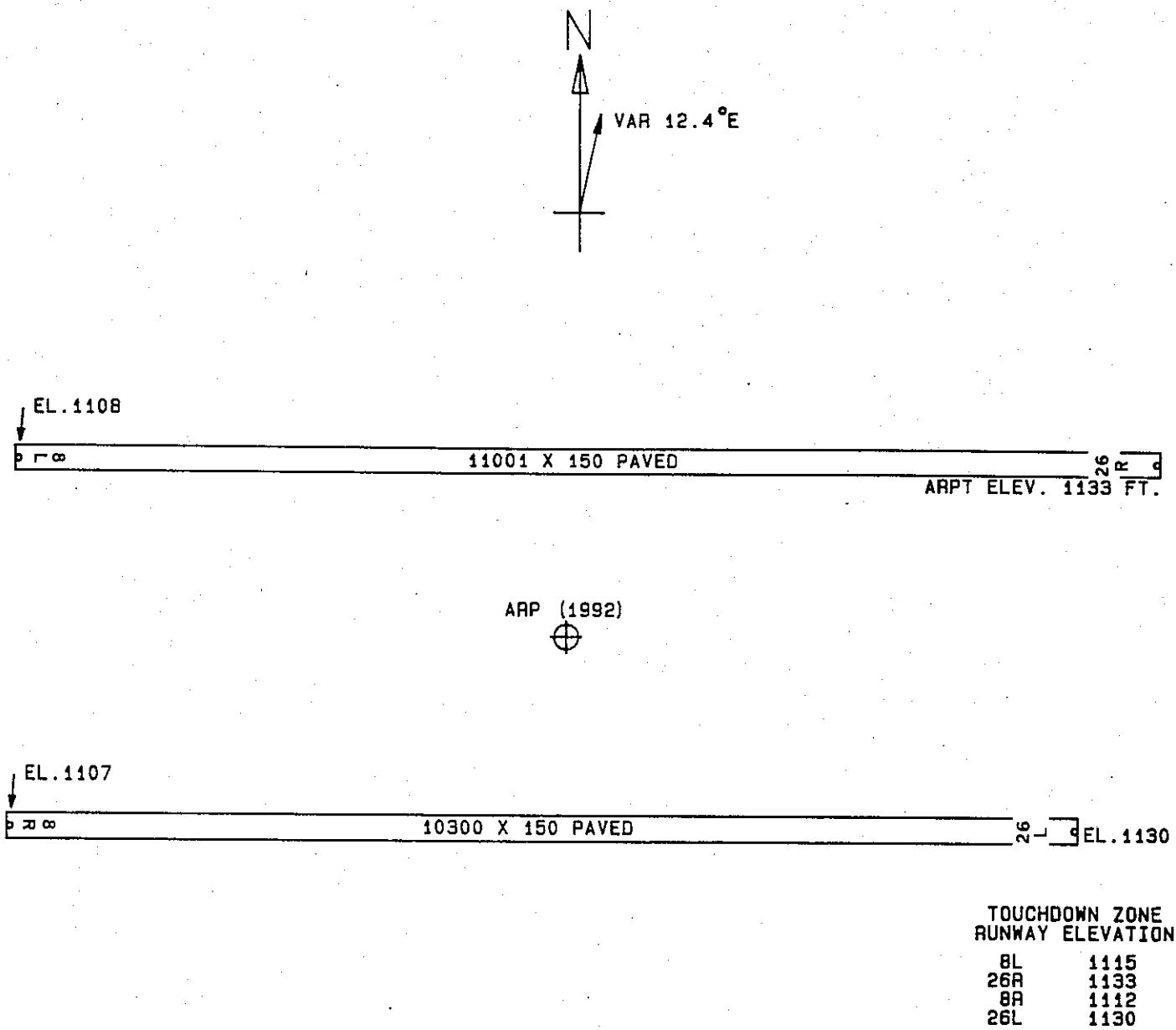
ARP 332609.972 -1120034.215

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON OL ATCT	332607.62	-1120035.68	1A	1301		168	19516	268
OL FLOODLIGHT	332616.59	-1120032.37	1A	1197		64	43	687
LIGHT STANDARD	332559.95	-1120050.69	1A	1170		37	22138	1724
OL ON BUILDING	332632.39	-1120037.26	1A	1159		26	34106	2280
OL ON BUILDING	332632.19	-1120018.49	1A	1151		18	1817	2611
FLOODLIGHT ON OL HANGAR	332602.00	-1120003.19	1A	1199		66	9438	2749
ANTENNA ON CHIMNEY	332542.99	-1120040.73	1A	1195		62	17902	2782
FLOODLIGHT	332616.66	-1115958.05	1A	1201		68	6509	3138
ROD ON ANEMOMETER POLE	332544.19	-1120102.89	1A	1137		4	21035	3563
VENT ON BUILDING	332632.04	-1120113.73	1A	1126		-7	29116	4023
ROD ON OL ASR	332542.01	-1115957.08	1A	1196		63	11931	4230
HANGAR	332633.36	-1115951.84	1A	1167		34	4414	4299
OL ON FLOODLIGHT POLE	332559.60	-1120125.54	1A	1155		22	24403	4473
ROD ON RTR TOWER	332540.20	-1120116.07	1A	1165		32	21717	4651
ROD ON OL TRANSMISSOMETER	332544.78	-1120120.94	1A	1124		-9	22451	4707
FLOODLIGHT	332616.65	-1115938.93	1A	1207		74	6924	4733
FLOODLIGHT	332601.69	-1115938.97	1A	1204		71	8743	4756
OL ON BLAST FENCE	332621.63	-1120129.58	1A	1121		-12	27141	4837
TRANSMISSION TOWER	332531.79	-1115959.25	1B	1245		112	13004	4865
OL ON GLIDE SLOPE	332546.06	-1120125.21	1A	1137		4	22823	4952
TREE	332635.02	-1120126.79	1A	1161		28	28712	5124
ROD ON OL TRANSMISSOMETER	332543.96	-1120126.59	1A	1124		-9	22658	5159
OL ON LIGHT STANDARD	332559.63	-1120136.28	1A	1153		20	24622	5363
OL HANGAR	332617.71	-1115929.71	1A	1194		61	6926	5521
OL ON BLAST FENCE	332620.91	-1115929.79	1A	1141		8	6608	5570
FENCE	332546.50	-1115931.39	1A	1131		-2	10136	5829
VENT ON HANGAR	332634.38	-1120137.62	1A	1138		5	28215	5911
TREE	332620.82	-1120148.75	1A	1140		7	26727	6410
OL ON FLOODLIGHT POLE	332620.81	-1115918.75	1A	1144		11	6752	6488
OL ANTENNA	332650.99	-1115931.79	1B	1259		126	3930	6720
TV ANTENNA ON BUILDING	332706.09	-1115950.87	1B	1276		143	2031	6757
ANTENNA ON OL TOWER	332713.50	-1120059.96	1B	1313		180	32850	6781
LIGHT ON OL TANK	332636.91	-1115920.77	1A	1198		65	5357	6793
LIGHT STANDARD	332536.24	-1120150.51	1A	1200		67	22948	7309
POLE	332635.84	-1115901.71	1A	1193		60	5908	8263

AIRPORT ELEVATION 1133

ARP 332609.972 -1120034.215

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TV ANTENNA ON OL BUILDING	332709.60	-1115922.47	1B	1316		183	3250	8560
ANTENNA ON OL TOWER	332656.62	-1120205.76	1B	1266		133	28853	9077
LIGHT STANDARD	332636.85	-1115851.04	1A	1227		94	6019	9155
LIGHT STANDARD	332638.87	-1115850.86	1A	1232		99	5908	9232
LIGHT STANDARD	332658.33	-1115857.36	1B	1285		152	4648	9552
TRANSMISSION TOWER	332532.50	-1115842.91	1B	1262		129	9927	10164
TRANSMISSION TOWER	332535.82	-1115833.95	1B	1238		105	9617	10760
ANTENNA ON OL BUILDING	332717.17	-1120232.06	1B	1252		119	29149	12076
FLAGPOLE ON BUILDING	332653.30	-1115818.08	1B	1292		159	5648	12339
OL RADIO TOWER (S 1 of 2)	332840.06	-1120010.07	2A	1573	399	440	35516	15307
ANTENNA ON OL MCWV TOWER	332751.37	-1115818.28	2C	1356		223	3555	15417
ANTENNA	332425.48	-1115802.36	2C	1376		243	11657	16649
GROUND	332740.16	-1115719.81	2C	1460		327	4837	18825
GROUND	332805.11	-1115728.57	2C	1503		370	4105	19566



TOUCHDOWN ZONE RUNWAY	ELEVATION
8L	1115
26R	1133
8R	1112
26L	1130

PHOENIX SKY HARBOR INTERNATIONAL AIRPORT

PHOENIX, ARIZONA

(NOT TO SCALE)