OBSTRUCTION DATA SHEET

ODS 430
TUCSON INTERNATIONAL AIRPORT
TUCSON, ARIZONA

DIGITIZED FROM

OC 430
SURVEYED FEBRUARY 1993
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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).

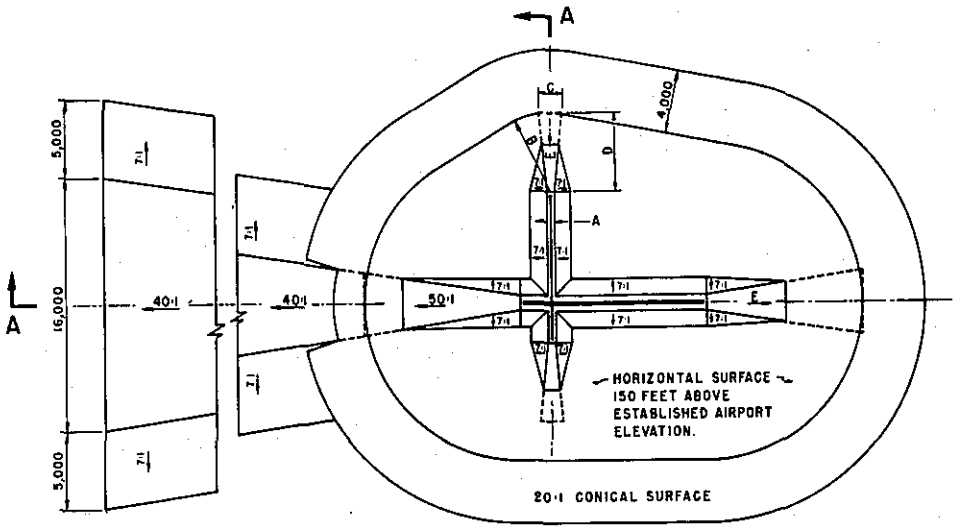
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

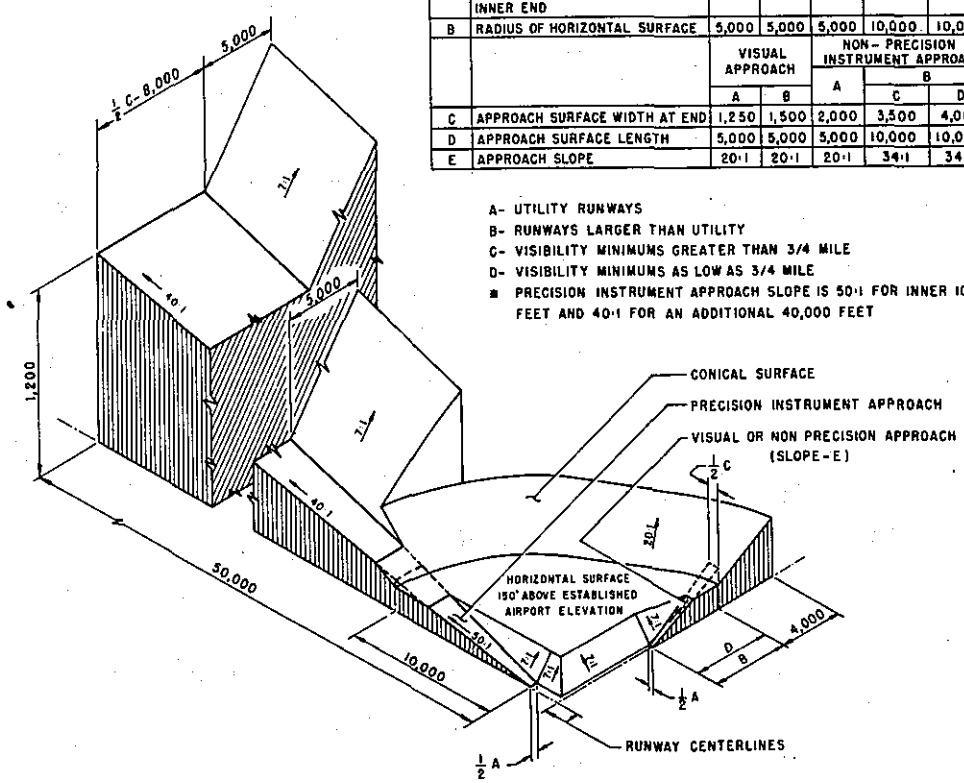
A(V) .... Utility runway - visual approach only
A(NP) ... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway - nonprecision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

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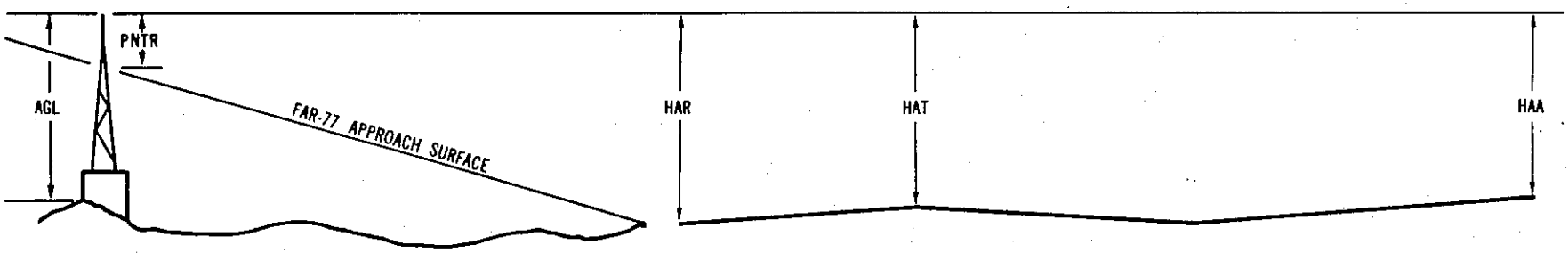
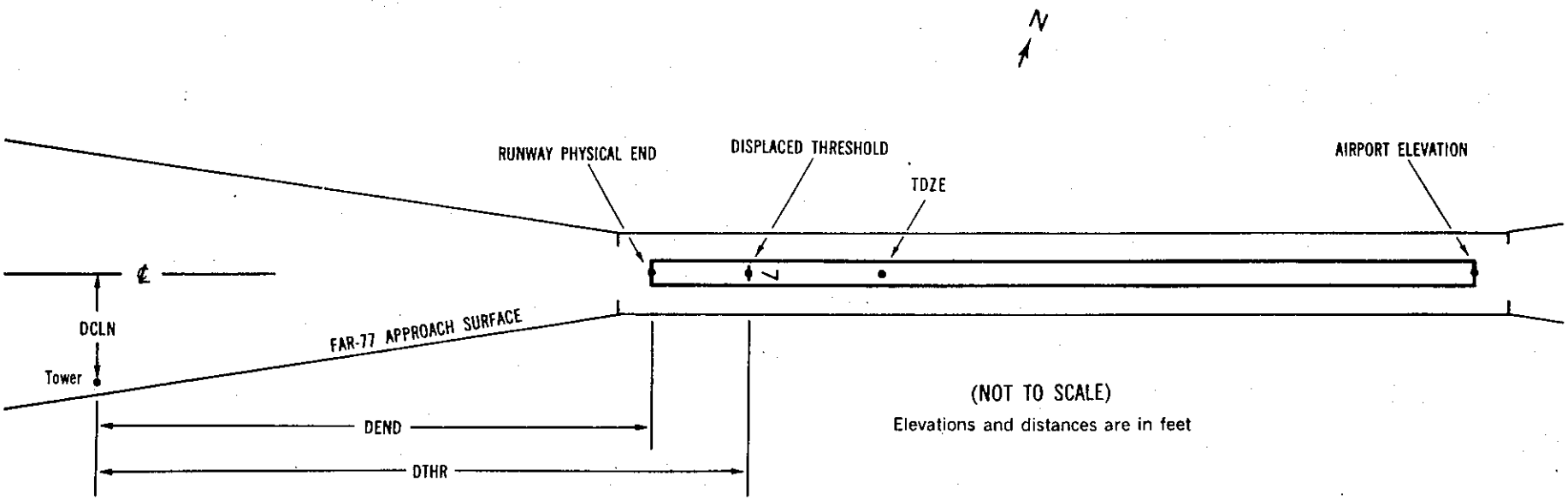




(NOT TO SCALE)

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 displaced threshold

8 Accuracy codes:

Horizontal (Ft.)	Vertical (Ft.)
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 displaced 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 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0430

AIRPORT ELEVATION 2641

11L PIR 2576/2596 320724.114 -1105652.464 1350121.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
VENT	320607.36	-1105520.12	1A	2642		66	46	1	-11101		137L	2
VENT	320605.40	-1105522.44	1A	2642		66	46	1	-11100		144R	2
BUSH	320604.91	-1105525.77	1A	2654		78	58	13	-10932		382R	15
BUSH	320606.72	-1105526.71	1A	2652		76	56	11	-10746		310R	14
WDI ON OL BLDG	320615.91	-1105526.39	1A	2649		73	53	8	-10109		366L	14
OL ON LTD WSK	320612.54	-1105532.19	1A	2643		67	47	2	-9997		228R	8
BUSH	320617.50	-1105541.34	1A	2637		61	41	-4	-9086		430R	6
OL ON LTD WSK	320718.12	-1105639.91	1A	2607		31	11	-34	-1191		336L	23
ROD ON OL GS	320714.77	-1105648.06	1A	2609		33	13	-32	-936		400R	26
WDI ON OL BLDG	320723.16	-1105645.14	1A	2591		15	-5	-50	-514		378L	11
BLDG	320729.17	-1105705.02	1A	2576		0	-20	-65	1125		402R	-18

29R C 2641/2641 320607.157 -1105522.136 3150209.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WDI ON OL BLDG	320723.16	-1105645.14	1A	2591		-50	-50	-50	-10479		378R	11
ROD ON OL GS	320714.77	-1105648.06	1A	2609		-32	-32	-32	-10057		400L	26
OL ON LTD WSK	320718.12	-1105639.91	1A	2607		-34	-34	-34	-9801		336R	23
BUSH	320617.50	-1105541.34	1A	2637		-4	-4	-4	-1907		430L	6
OL ON LTD WSK	320612.54	-1105532.19	1A	2643		2	2	2	-996		228L	8
WDI ON OL BLDG	320615.91	-1105526.39	1A	2649		8	8	8	-884		366R	14
BUSH	320606.72	-1105526.71	1A	2652		11	11	11	-247		310L	14
BUSH	320604.91	-1105525.77	1A	2654		13	13	13	-61		382L	15
VENT	320605.40	-1105522.44	1A	2642		1	1	1	107		144L	2
VENT	320607.36	-1105520.12	1A	2642		1	1	1	109		137R	2
GROUND	320607.92	-1105514.82	1A	2649		8	8	8	390		500R	3
BUSH	320601.96	-1105521.83	1A	2654		13	13	13	391		353L	8
BUSH	320559.57	-1105518.60	1A	2660		19	19	19	758		327L	3
BUSH	320604.38	-1105512.39	1A	2664		23	23	23	791		395R	6
BUSH	320556.71	-1105517.32	1A	2664		23	23	23	1040		453L	-1
OL ON LOC	320553.50	-1105506.11	1A	2666		25	25	25	1951		0R	-26
OL ON POLE	320554.94	-1105503.37	1A	2679		38	38	38	2015		270R	-15
VORTAC	320542.72	-1105453.48	1A	2710		69	69	69	3490		1L	-27

OC0430

AIRPORT ELEVATION 2641

11R SUPLC 2568/ 320724.529 -1105704.565 1350110. 2583/2603 320709.716 -1105647.172

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LTD WSK	320626.55	-1105559.65	1A	2627		59	24	-14	-8091	-5975	192R	8
BUSH	320644.30	-1105621.44	1A	2609		41	6	-32	-5497	-3381	250R	5
BUSH	320652.68	-1105630.56	1A	2604		36	1	-37	-4343	-2227	206R	7
OL ON LTD WSK	320703.44	-1105638.42	1A	2597		29	-6	-44	-3097	-981	84L	8
BUSH	320707.49	-1105647.77	1A	2586		18	-17	-55	-2239	-123	195R	3

29L SUPLC 2627/2627 320620.719 -1105549.656 3150149.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	320707.49	-1105647.77	1A	2586		-41	-41	-55	-6876		195L	3
OL ON LTD WSK	320703.44	-1105638.42	1A	2597		-30	-30	-44	-6018		84R	8
BUSH	320652.68	-1105630.56	1A	2604		-23	-23	-37	-4772		206L	7
BUSH	320644.30	-1105621.44	1A	2609		-18	-18	-32	-3619		250L	5
OL ON LTD WSK	320626.55	-1105559.65	1A	2627		0	0	-14	-1024		192L	8
TREE	320615.40	-1105546.31	1A	2643		16	16	2	583		176L	5
BUSH	320617.50	-1105541.34	1A	2637		10	10	-4	736		276R	-5
BUSH	320612.25	-1105537.60	1A	2644		17	17	3	1339		129R	-16
ROD ON LT POLE	320608.50	-1105540.69	1A	2664		37	37	23	1419		327L	1
BUSH	320606.72	-1105526.71	1A	2652		25	25	11	2396		397R	-39
BUSH	320604.91	-1105525.77	1A	2654		27	27	13	2582		325R	-43
VENT	320605.40	-1105522.44	1A	2642		15	15	1	2749		563R	-60
BUSH	320601.96	-1105521.83	1A	2654		27	27	13	3033		354R	-56
BUSH	320559.57	-1105518.60	1A	2660		33	33	19	3400		380R	-61
BUSH	320556.71	-1105517.32	1A	2664		37	37	23	3682		253R	-65
OL ON LOC	320553.50	-1105506.11	1A	2666		39	39	25	4593		706R	-90
VORTAC	320542.72	-1105453.48	1A	2710		83	83	69	6132		706R	-91

OC0430

AIRPORT ELEVATION 2641

3 SUPLC 2558/ 320701.797 -1105732.554 450243. 2561/2570 320707.675 -1105725.637

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON LTD WSK	320742.13	-1105641.31	1A	2578		20	8	-63	-5999	-5158	229R	10
OL ON LTD WSK	320710.00	-1105726.41	1A	2570		12	0	-71	-959	-119	213L	8
BUSH	320702.60	-1105735.62	1A	2569		11	-1	-72	129	970	243L	11
RAILROAD	320701.85	-1105736.70	1A	2579		21	9	-62	249	1089	255L	19
BUSH	320700.78	-1105735.79	1A	2573		15	3	-68	270	1111	124L	13
BUSH	320657.17	-1105733.53	1A	2575		17	5	-66	390	1231	271R	11
RAILROAD	320658.25	-1105736.51	1A	2580		22	10	-61	494	1335	13R	13
TREE	320659.71	-1105739.64	1A	2587		29	17	-54	580	1421	281L	18
LIGHT	320653.98	-1105740.28	1A	2597		39	27	-44	1028	1869	89R	14
LIGHT	320653.83	-1105742.53	1A	2596		38	26	-45	1176	2017	36L	9
LIGHT	320649.46	-1105741.82	1A	2603		45	33	-38	1445	2285	319R	8

21 SUPLC 2567/2571 320750.731 -1105634.952 2250314.

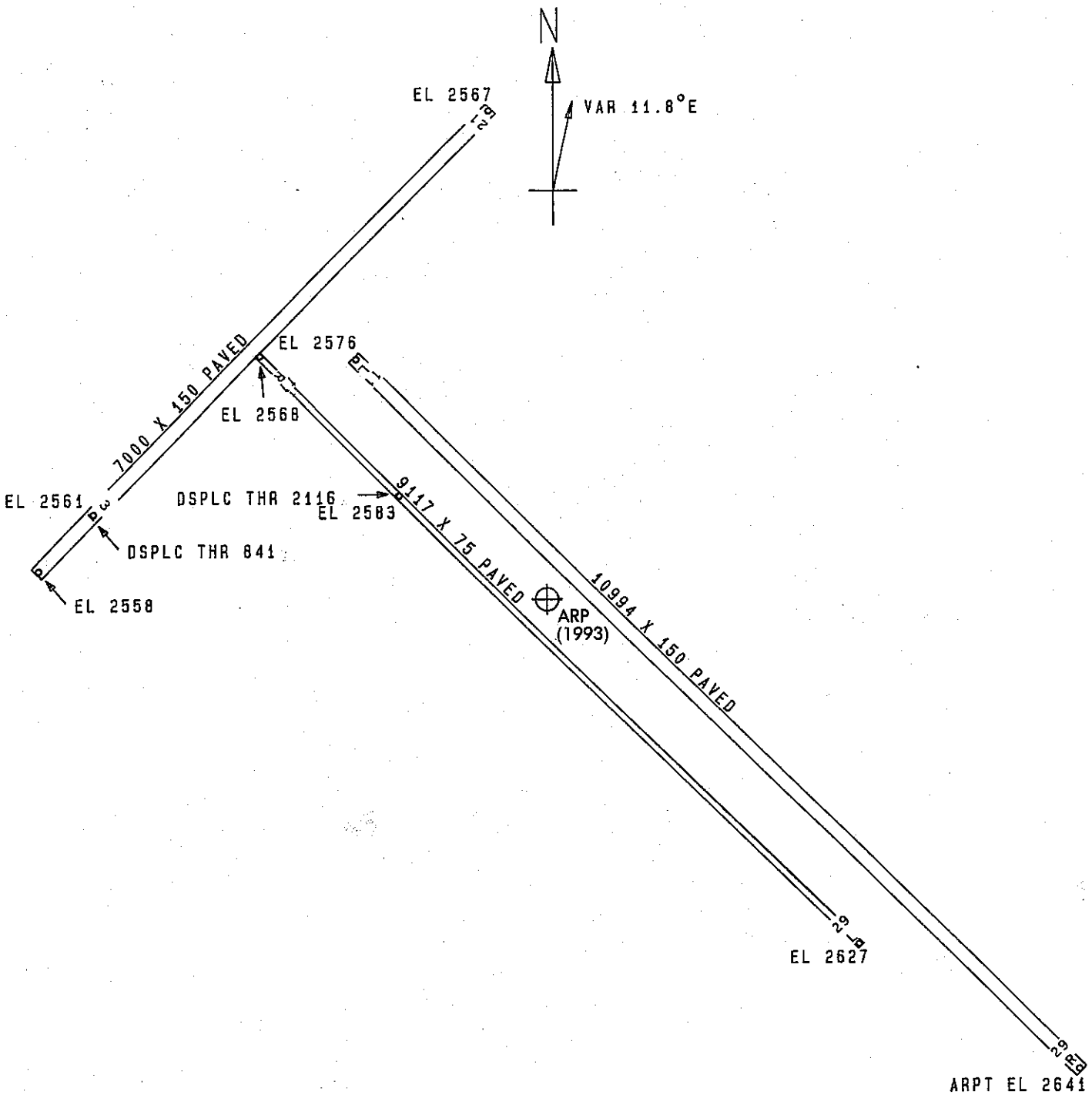
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	320702.60	-1105735.62	1A	2569		2	-2	-72	-7129		243R	11
OL ON LTD WSK	320710.00	-1105726.41	1A	2570		3	-1	-71	-6040		213R	8
OL ON LTD WSK	320742.13	-1105641.31	1A	2578		11	7	-63	-1001		229L	10
TREE	320802.68	-1105626.20	1A	2607		40	36	-34	1386		322R	5
TREE	320802.83	-1105623.48	1A	2612		45	41	-29	1562		168R	5
TREE	320801.48	-1105617.29	1A	2628		61	57	-13	1842		304L	13
TREE	320804.34	-1105619.33	1A	2626		59	55	-15	1922		24R	8

OC0430

AIRPORT ELEVATION 2641

ARP 320658.478 -1105628.535

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
AMOM	320717.85	-1105633.64	1A	2608		-33	33533	2006
ANT AND APBN ON OL ATCT	320722.56	-1105631.56	1A	2732		91	34205	2447
BUSH	320634.19	-1105610.43	1A	2623		-18	13548	2907
OL ON HANGAR	320730.17	-1105643.23	1A	2610		-31	32639	3443
OL ON HANGAR	320733.28	-1105639.44	1A	2615		-26	33316	3640
ANT ON OL TANK	320622.36	-1105643.07	1A	2733		92	18706	3859
BUSH	320624.05	-1105558.18	1A	2633		-8	13118	4350
OL ON LT POLE	320658.43	-1105722.51	1A	2641		0	25808	4642
ANT ON RTR TWR	320647.12	-1105722.41	1A	2643		2	24417	4774
BUSH	320619.16	-1105552.74	1A	2638		-3	13025	5026
BUSH	320700.89	-1105729.19	1A	2573		-68	26052	5222
BUSH	320659.07	-1105731.32	1A	2571		-70	25850	5400
ANT ON HANGAR	320725.16	-1105724.92	1A	2623		-18	28716	5549
ANT ON RTR TWR	320646.54	-1105733.73	1A	2634		-7	24603	5735
POLE	320648.56	-1105738.35	1A	2614		-27	24843	6088
POLE	320704.60	-1105739.15	1A	2608		-33	26401	6105
BUSH	320621.92	-1105528.59	1A	2652		11	11349	6343
OL ON TANK	320757.92	-1105702.94	1A	2689		48	32158	6696
ANT ON OL TANK	320551.79	-1105611.68	1A	2783		142	15603	6893
BUSH	320613.97	-1105517.86	1A	2670		29	11441	7562
BUSH	320607.89	-1105513.93	1A	2666		25	11644	8204
STACK	320825.47	-1105608.29	1A	2648		7	35923	8962
OL ON TWR	320907.00	-1105533.00	1A	2829		188	822	13838
CACTUS	320626.10	-1105910.82	1A	2857		216	24501	14337
TRMSN TWR	320453.94	-1105333.49	1A	2851		210	11804	19625



TOUCHDOWN ZONE RUNWAY	ELEVATION
11L	2596
29R	2641
11R	2603
29L	2627
3	2570
21	2571

TUCSON INTERNATIONAL AIRPORT

TUCSON, ARIZONA

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)