

OBSTRUCTION DATA SHEET

**ODS 5023
SANTA MONICA MUNICIPAL AIRPORT
SANTA MONICA, CALIFORNIA**

DIGITIZED FROM

**OC 5023
SURVEYED FEBRUARY 1992
8TH 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.

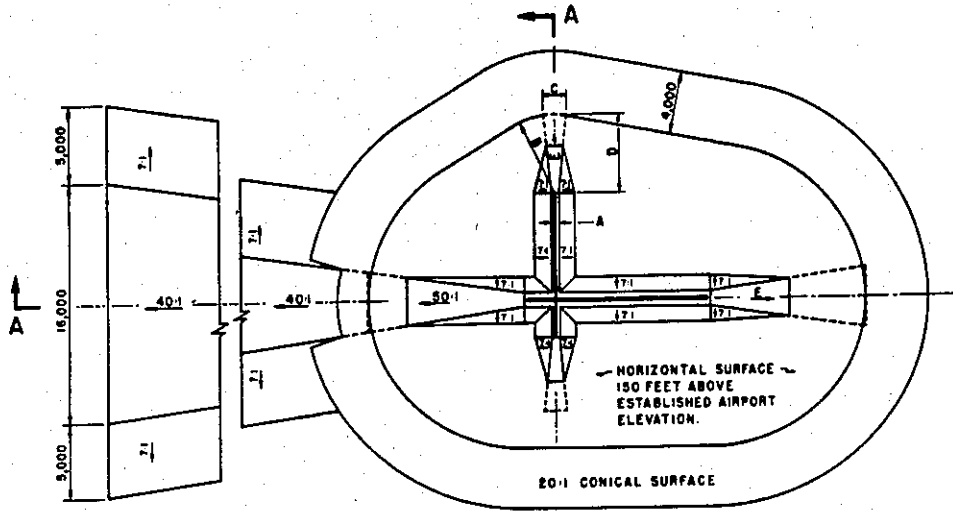
ODS information is arranged as follows:

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.

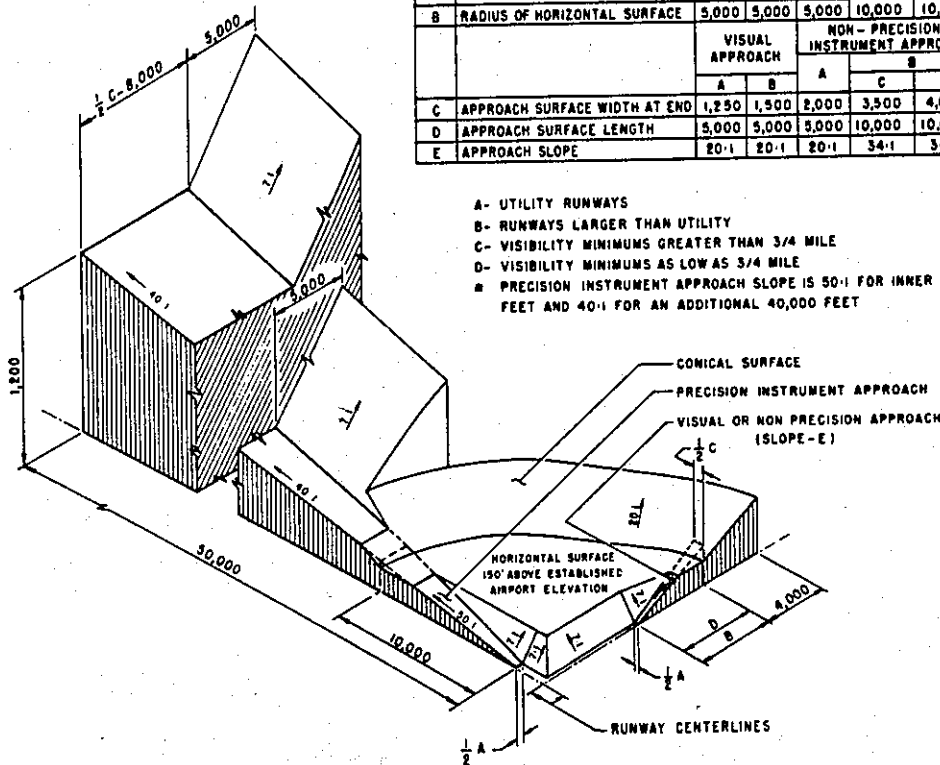
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
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

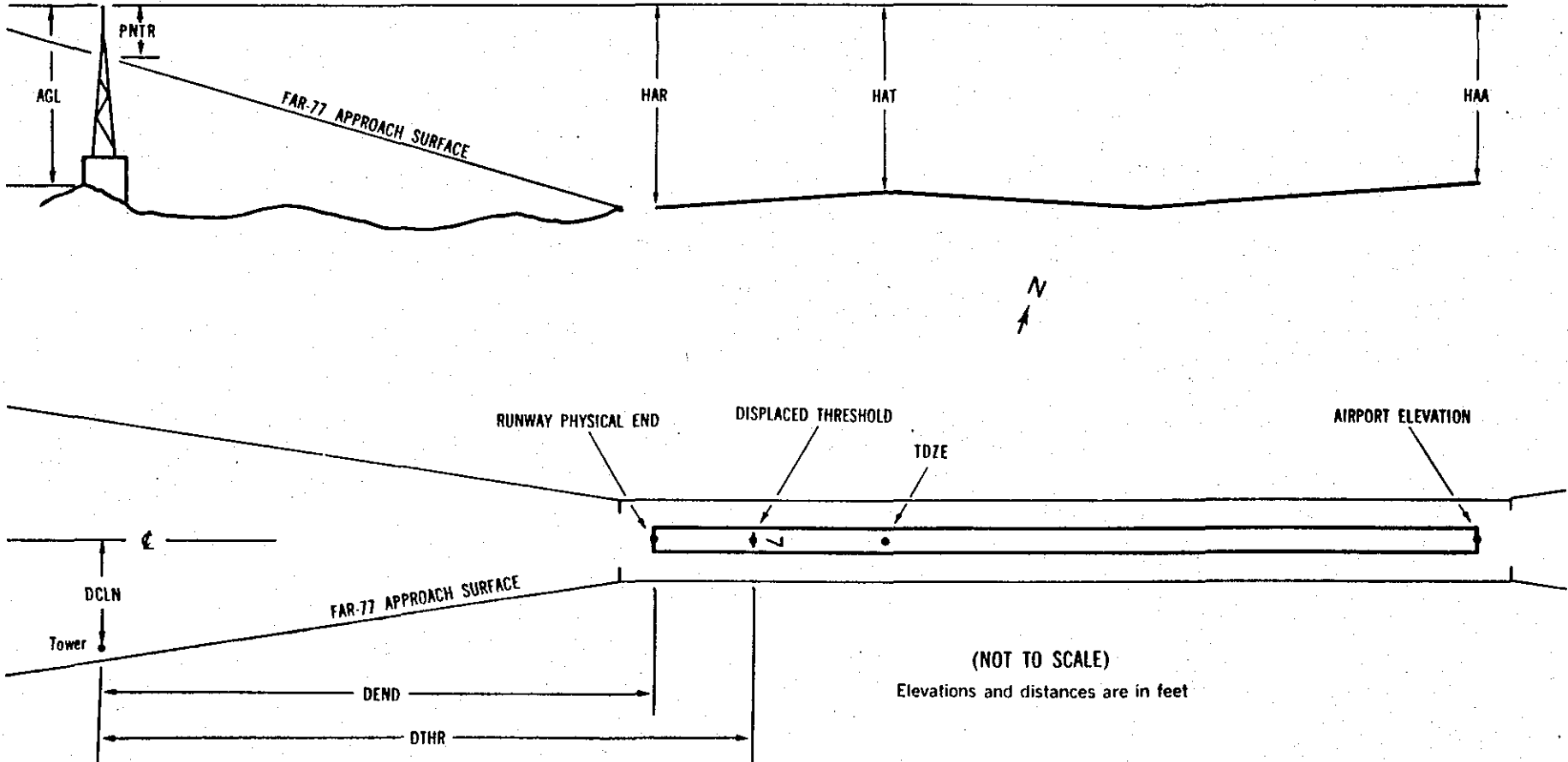
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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	XXXXXX.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



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 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 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 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

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AIRPORT ELEVATION 175

3 ANP 115/ 151 340039.387 -1182725.455 2243413.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	340116.21	-1182644.98	1A	181		66	30	6	-5043		186L	7
LT STANDARD	340113.45	-1182642.21	1A	181		66	30	6	-5007		177R	7
SIGN	340112.00	-1182642.87	1A	176		61	25	1	-4864		240R	3
OL ON LTD WSK	340109.18	-1182647.60	1A	196		81	45	21	-4381		156R	27
SIGN	340048.16	-1182717.59	1A	135		20	-16	-40	-1096		151L	7
SIGN	340046.05	-1182715.07	1A	132		17	-19	-43	-1093		151R	4
TREE	340040.13	-1182728.73	1A	125		10	-26	-50	140		249L	10
TREE	340038.46	-1182730.94	1A	131		16	-20	-44	390		263L	6
TREE	340037.11	-1182731.46	1A	133		18	-18	-42	519		198L	2
TREE	340036.49	-1182733.41	1A	138		23	-13	-37	679		271L	-1
POLE	340031.05	-1182740.14	1A	155		40	4	-20	1468		289L	-24

21 ANP 175/ 175 340114.530 -1182643.876 443436.

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	340040.13	-1182728.73	1A	125		-50	-50	-50	-5127		249R	10
SIGN	340046.05	-1182715.07	1A	132		-43	-43	-43	-3894		151L	4
SIGN	340048.16	-1182717.59	1A	135		-40	-40	-40	-3891		151R	7
OL ON LTD WSK	340109.18	-1182647.60	1A	196		21	21	21	-606		156L	27
SIGN	340112.00	-1182642.87	1A	176		1	1	1	-123		240L	3
LT STANDARD	340113.45	-1182642.21	1A	181		6	6	6	20		177L	7
SIGN	340116.21	-1182644.98	1A	181		6	6	6	56		186R	7
POLE	340114.63	-1182640.51	1A	179		4	4	4	206		195L	3
TREE	340118.40	-1182643.09	1A	192		17	17	17	325		227R	11
TREE	340118.08	-1182638.66	1A	187		12	12	12	564		61L	-6

AIRPORT ELEVATION 175

ARP 340056.959 -1182704.667

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
HGR	340059.91	-1182706.26	1A	169		-6	32152	327
HGR	340054.24	-1182659.24	1A	173		-2	10709	533
ANT ON OL HGR	340058.82	-1182712.09	1A	208		33	27253	653
BLDG	340105.87	-1182705.17	1A	211		36	34322	902
FLAGPOLE	340106.12	-1182702.68	1A	207		32	35619	941
FLDLT POLE	340053.02	-1182716.99	1A	177		2	23505	1111
AMOM ON HANGAR	340046.34	-1182708.59	1A	162		-13	18312	1123
FLDLT POLE	340055.15	-1182718.30	1A	210		35	24703	1162
HGR	340107.70	-1182659.06	1A	197		22	935	1183
FLAGPOLE	340102.61	-1182650.89	1A	219		44	4951	1293
AIRPORT BEACON	340104.05	-1182649.60	1A	217		42	4636	1457
AMOM ON OL ATCT	340110.46	-1182655.65	1A	243		68	1510	1562
WSK ON BLDG	340042.45	-1182715.69	1A	144		-31	19825	1736
ANT ON OL RTR TWR	340048.91	-1182723.29	1A	201		26	22840	1766
POLE	340040.55	-1182712.66	1A	172		-3	18810	1790
ROD ON HGR	340041.26	-1182715.16	1A	161		-14	19512	1817
POLE	340047.02	-1182722.87	1A	154		-21	22250	1833
TREE	340046.56	-1182722.99	1A	154		-21	22149	1867
POLE	340046.17	-1182724.79	1A	174		-1	22319	2015
BLDG	340116.53	-1182653.94	1A	215		40	1038	2174
OL ON CEILOMETER	340114.63	-1182649.13	1A	178		3	2219	2214
TREE	340038.96	-1182719.95	1A	135		-40	20122	2228
TREE	340045.97	-1182727.86	1A	189		14	22628	2246
DME	340037.52	-1182722.95	1A	123		-52	20410	2496
SIGN	340112.58	-1182641.17	1A	184		9	3729	2531
TREE	340111.36	-1182639.69	1A	211		36	4124	2558
VOR	340036.90	-1182724.14	1A	122		-53	20503	2608
TREE	340111.89	-1182637.64	1A	213		38	4232	2730
ANT ON BLDG	340040.80	-1182731.92	1A	150		-25	22038	2816
TREE	340119.70	-1182643.39	1A	198		23	2401	2914
TREE	340120.92	-1182644.32	1A	209		34	2122	2966
TREE	340037.78	-1182732.57	1A	145		-30	21633	3046
TREE	340041.17	-1182737.57	1A	202		27	22609	3197
TREE	340038.81	-1182736.30	1A	196		21	22132	3234
TREE	340035.21	-1182738.89	1A	175		0	21845	3624

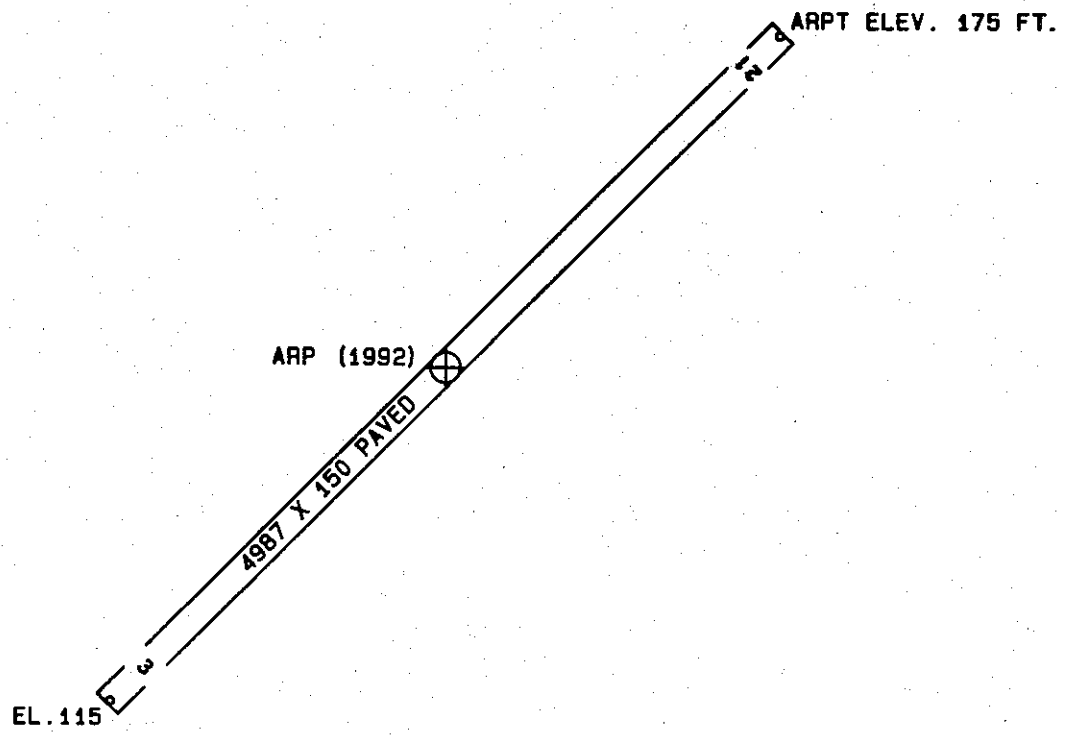
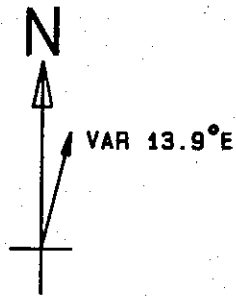
OC5023

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AIRPORT ELEVATION 175

ARP 340056.959 -1182704.667

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
POLE	340033.47	-1182742.28	1A	185		10	21914	3957
POLE	340032.29	-1182741.27	1A	175		0	21707	3964
OL WSK ON BLDG	340159.78	-1182705.75	1A	361	203	186	34516	6351
OL WSK ON BLDG	340210.39	-1182636.82	1B	355		180	337	7784
OL WSK ON BLDG	340209.86	-1182633.88	1A	406	229	231	528	7812
OL WSK ON BLDG	340216.30	-1182634.35	1B	354		179	344	8416



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
3	151
21	175

SANTA MONICA MUNICIPAL AIRPORT
SANTA MONICA, CALIFORNIA
(NOT TO SCALE)