## OBSTRUCTION DATA SHEET

ODS 5579 BEND MUNICIPAL AIRPORT BEND, OREGON

DIGITIZED FROM

OC 5579 SURVEYED JULY 1986 1ST EDITION



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

## 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.

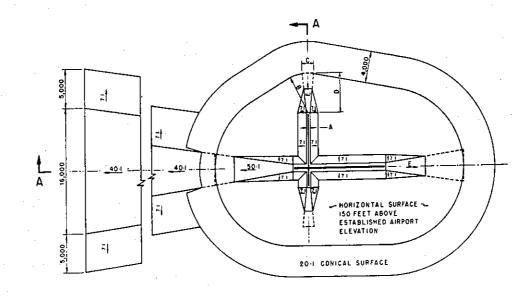
ODS information is arranged as follows:

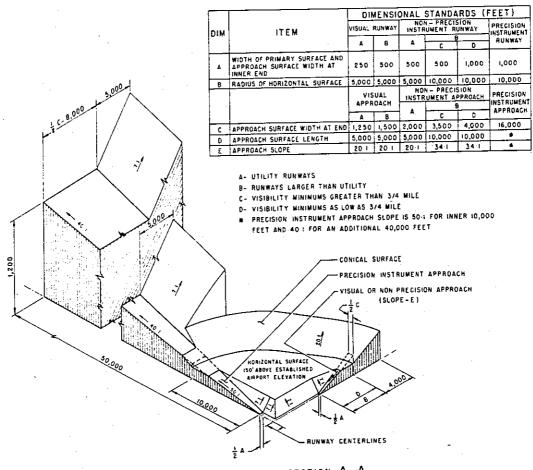
- 1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both 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):

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.

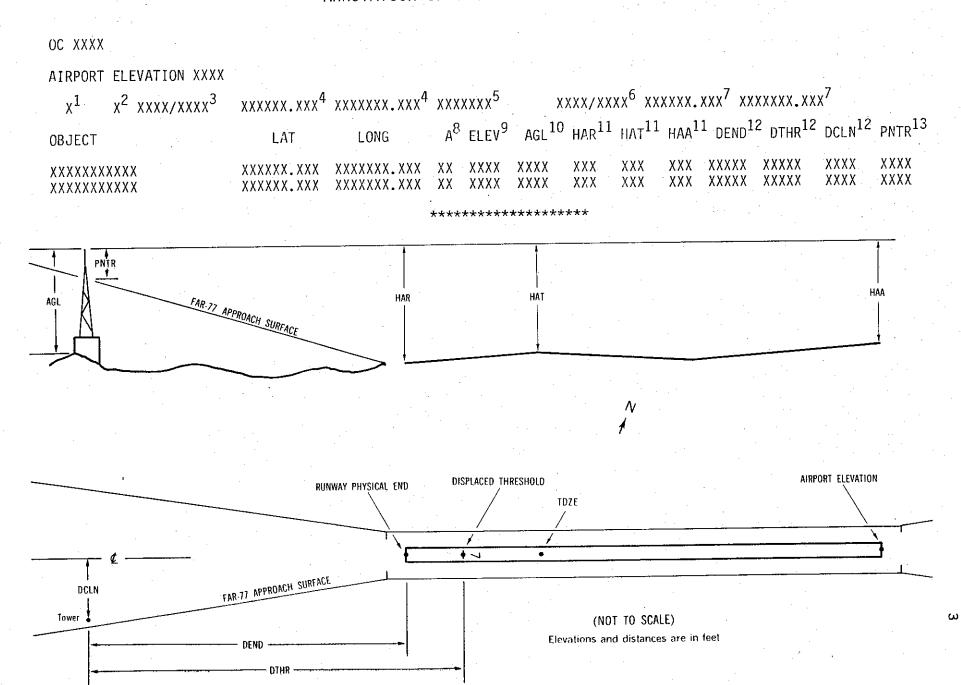




ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

## ANNOTATION OF ODS DATA FORMAT



<sup>2</sup> For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

<sup>3</sup> Reference runway approach physical end elevation/touchdown zone elevation

Latitude and longitude of reference runway approach physical end

<sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south

Reference runway displaced threshold elevation/touchdown zone elevation

7 Latitude and longitude of reference runway displaced threshold

<sup>8</sup> Accuracy Code: Horizontal Vertical 1 = 20A = 2B = 52 = 40C = 20

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.

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.

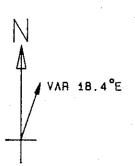
13 PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

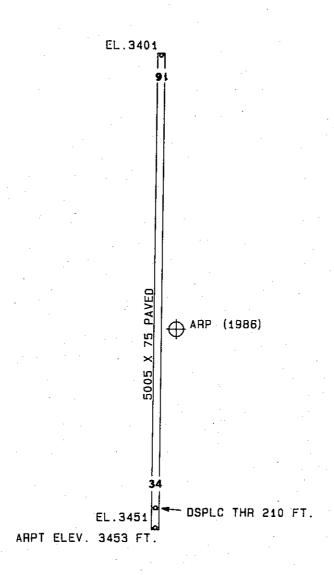
														100	•
34 A(V)	34537	4405	17.256N	12111	58.226W j	80022	1 345	51/345	51 42	10519.	331M	121115	58.224W		•
OBJECT		٠	÷	LAT	LONG	A	ELEV	AGL.	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND			44	0607.61	1211159.5	54 1A	3402		-51	-49	-51	-5099	-4889	100L	1
GROUND			44	0606.07	1211201.6	2 14	3402		-51	-49	-51	-4942	-4732	251L	1.
BUSH		,	44:	0552.86	1211155.5	7 1A	3414		-39	-37	-39	-3605	-3395	192R	<b>C</b>
BUSH					1211155,5		3420		-33	-31	-33	-3295	-3085	196R	8
BUSH					1211201.6		3429		-24	-22	-24	-2991	-2781	251L	13
OL ON LTI	) WSK				1211156.1		3451	•	2	O	2	-1607	-1397	151R	19
BUSH					1211155.3		3454		1	3	1	-477	-267	208R	7
GROUND					1211157.1		. 3454		1	3	1	73	283	82R	1.
BUSH					1211155.3		3459		6	. 8	6	77	287	213R	6
ROAD (N)					1211201.6		3473		20	22	20	192	402	248L	201
TREE					1211156.8		3500		47	49	47	1208	1418	104R	-3
TREE			44	0505.27	1211159.3	IS 1A	3500	-	47	49	47	1213	1423	81L	-4
				*	•					•					
			-												
					4.5				•						
16 A(NP)	3401/	3426	440606	.676N	1211158.17	'9W 0	000221								•
OBJECT				LAT	LONG	A	ELEV	AGL	HAR	НАТ	HAA	DEND	DTHR	DCLN	PNTR
DOAD 7813				Control to the control	- 4 20 4 4 2020 4 - 2	en 4.0	0.470	-		. 11 ***	· · · · · · · · · · · · · · · · · · ·	em a mai	•	en a en en	
ROAD (N) BUSH					1211201.6		3473		72	47	20	-5196	•	248R	20
		•			1211155.3		3459		58	33	6	-5081		213L	6
GROUND					1211157.1		3454		53	28	1	-5077	e e	82L	1
BUSH OL ON LTD	Some Newsler				1211155.3		3454		53	28	1	-4527	4	208L	7
	r wor.				1211156.1		3451		50.	25	-2	-3397		151L	19
BUSH					1211201.6		3429		28 1		-24	-2013	•	251R	13
BUSH					1211155.5		3420		19	-6	-33	-1709	•	196L	8
BUSH					1211155.5		3414		13	-12	-39	-1399		192L	L. I.
GROUND					1211201.6		3402		Ĺ	-24	-51	-62		251R	1
GROUND	•	•			1211159.5		3402	•	1	-24	-51	95		100R	1
TREE					1211154.9		3412		11	14	4.1	601		237L	9
TREE					1211200.7		3422		21	<b>4</b> }.	-31	615		188R	0
TREE					1211201.4		3425		24	1	-28	665		237R	1
TREE			. 444	Jaite,65	1211202.1	4 16	3432		31	6	-21	811		290R	Ů.

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## AIRPORT ELEVATION 3453

ARP	440537.913N	1211155.541W				•		
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ANTENNA AIRPORT BEACON	440536.51	1211205.69	1A	3477		24	240 44	754
AIRPORT BEACON TREE	440532.84 440533.95	1211205.69 1211209.43	1A 1A	3462 3532		9 79	216 50 230 1	901 1090
HANGAR	440524.83		10	3458		5	182 10	1415
_BUSH	440552,28	1211201.99	1/	3418		-35	323 41	1529
TREE	440554.13	1211153.58	1 🖰	3425		-28	346 35	1648
TREE	440517.76		1 🛱	3481		28	177 32	2122
TREE	440604.68		1A	3427		-26	346 17	2720
TREE	440510.74	1211205.30	10	3513		60	176 7	2842
BUSH	440607.60	1211202.74	1A	3407		-46	331 41	3052
TREE	440608.34	1211153.21	1 🖰	3416		-37	344 46	3084
TREE	440609.74	1211203.94	1 A	3434	٠.	-19	330 50	3280





TOUCHDOWN ZONE RUNWAY ELEVATION 34 3451

34 3451 16 3426

BEND MUNICIPAL AIRPORT

BEND, OREGON

(NOT TO SCALE)