# OBSTRUCTION DATA SHEET

ODS 5379
SHEBOYGAN COUNTY MEMORIAL AIRPORT
SHEBOYGAN, WISCONSIN

DIGITIZED FROM

OC 5379
SURVEYED AUGUST 1989
2ND 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.

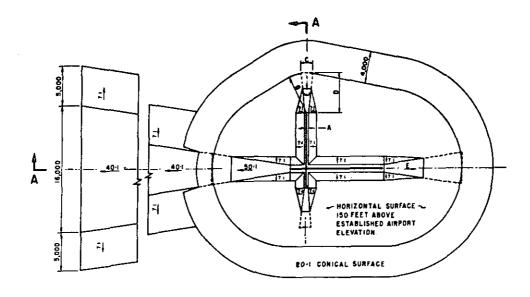
ODS information is arranged as follows:

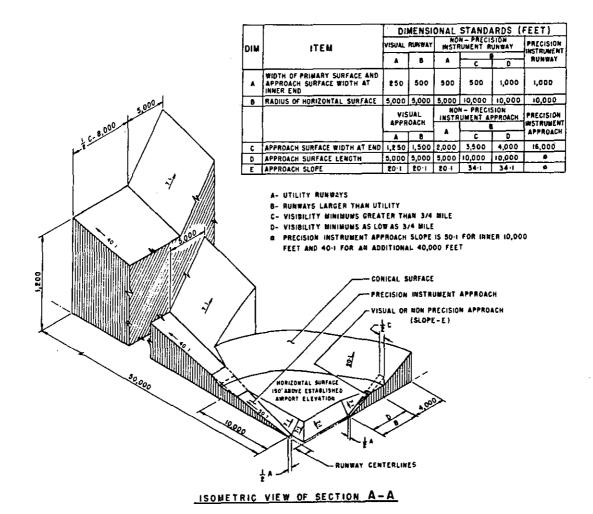
- 1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both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





FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

## ANNOTATION OF ODS DATA FORMAT

OC XXXX AIRPORT ELEVATION XXXX  $x^1$   $x^2$   $xxxx/xxxx^3$   $xxxxxx.xxx^4$   $xxxxxxx.xxx^4$   $xxxxxxxx^5$   $xxxx/xxxx^6$   $xxxxxx.xxx^7$   $xxxxxxxx.xxx^7$ LONG  $A^8$  ELEV<sup>9</sup> AGL<sup>10</sup> HAR<sup>11</sup> HAT<sup>11</sup> HAA<sup>11</sup> DEND<sup>12</sup> DTHR<sup>12</sup> DCLN<sup>12</sup> PNTR<sup>13</sup> LAT **OBJECT** XXXXXXXXXX XXX XXX XXXXX XXXXX XXXX XXXX XXX XXXXXXXXXX XXX XXXXX XXXXX XXXX XXXX \*\*\*\*\*\* FAR.77 APPROACH SURFACE HAT HAA DISPLACED THRESHOLD AIRPORT ELEVATION **RUNWAY PHYSICAL END** TDZE • FAR-77 APPROACH SURFACE DCLN

(NOT TO SCALE)

Elevations and distances are in feet

Tower

DEND

DTHR

#### 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
- Latitude and longitude of reference runway approach physical end
- <sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south
- 6 Reference runway displaced threshold elevation/touchdown zone elevation
- <sup>7</sup> Latitude and longitude of reference runway displaced threshold
- <sup>8</sup> Accuracy Code: Horizontal Vertical 1 = 20A = 22 = 40B = 5C = 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.
- $^{10}$  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).

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AIRPORT ELEVATION 749

# 3 C 741/744 434552.267N 0875126.284W 2150834

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	TAH	HAA	DEND	DTHR	DCLN	PNTR
TREE	434633.21	0875054.80	1A	771		30	27	22	-4720		498L	31
OL ON GLIDE SLOPE	434629.60	0875055.52	1A	785		44	41	36	-4390		330L	45
TREE	434608.96	0875102.98	1A	753		12	9	4	-2367		425R	11
GROUND	434604.07	0875108.08	1A	744		3	0	-5	-1746		404R	0
GROUND	434559.62	0875124.47	1 <b>A</b>	749		8	5	0	-686		320L	8
GROUND	434548.30	0875125.79	lA	745		4	1	-4	308		260R	1
OL ON LOCALIZER	434546.14	0875132.23	1A	750		9	6	1.	758		0R	-7
TREE	434547.72	0875137.04	1 <b>A</b>	767		26	23	18	831		381L	7
TREE	434537.82	0875147.13	1A	789		48	45	40	2077		409L	-7
TREE	434518.69	0875158.11	1A	819		78	75	70	4125		47R	-37
TRANSMISSION TOWER	434449.16	0875231.06	1A	901		160	157	152	7962		210L	-68

# 21 PIR 738/743 434635.863N 0875043.930W 0350903

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND		0875124.47		749		11	6	0	-4713		320R	8
GROUND	434604.07	0875108.08	1A	744		6	1	-5	-3652		404L	0
TREE	434608.96	0875102.98	1 <b>A</b>	753		15	10	4	-3032		425L	11
OL ON GLIDE SLOPE	434629.60	0875055.52	1A	785		47	42	36	-1008		330R	45
TREE	434633.21	0875054.80	1A	771		33	28	22	-679		498R	31
GROUND	434643.48	0875032.96	1A	748		10	5	-1	1094		214L	-8
ROD ON BUILDING	434706.54	0875022.79	1A	796		58	53	47	3433		520R	-7
TREE	434708.34	0875010.13	1 <b>A</b>	812		74	69	63	4117		134L	-4

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### AIRPORT ELEVATION 749

13 A(V) 749/749	434617.379N	0875126.816	N 3092	2258							
OBJECT	LA'	T LONG	А	ELEV	AGL	HAR	нат	наа	DEND	מאינית	חרנאו פאייים

POLE 434624.69 0875138.19 1A 777 28 28 28 1115 42L -18

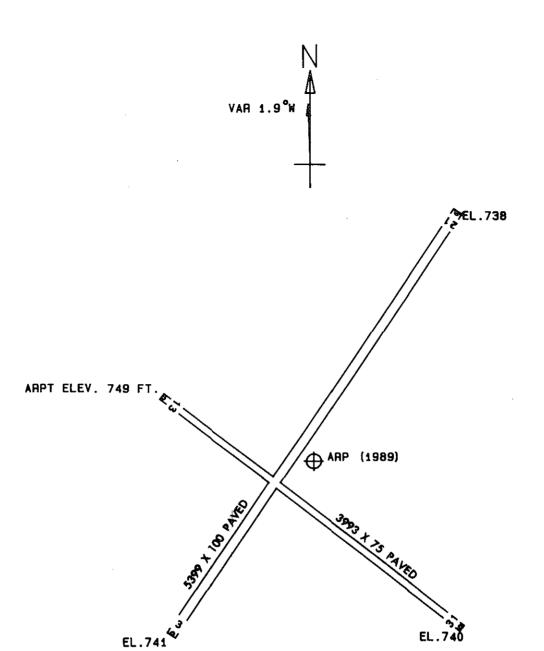
31 A(V) 740/745 434552.355N 0875044.760W 1292327

OBJECT LAT LONG A ELEV AGL HAR HAT HAA DEND DTHR DCLN PNTR
TREE 434549.00 0875036.85 1A 761 21 16 12 664 106R -2

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# AIRPORT ELEVATION 749

ARP	434610.155N	0875105.397W						
OBJECT	LAT	LONG	A	ELEV	AGL	наа	MAG BEARING	DISTANCE
VOR MONITOR ANTENNA	434607.63 434607.84	0875055.19 0875054.69	1A 1A	771 780		22 31	110 43 108 33	791 820
TREE	434614.79	0875054.11	1 <b>A</b>	773		24	62 21	952
TREE TREE	434616.04 434620.61	0875117.13 0875120.76	1A 1A	765 808		16 59	306 36 315 5	1047 1547
OL ON WINDSOCK	434554.57	0875055.22	1A	773		24	156 34	1746
TREE TREE	434619.68 434557.87	0875042.25 0875042.45	1A 1A	818 785		69 36	62 18 128 21	1954 2093
TREE	434623.46	0875128.04	1 <b>A</b>	785		36	310 56	2139
TREE TREE	434601.49 434624.38	0875132.30 0875042.99	1A 1A	819 769		70 20	247 56 50 41	2160 2186
ROD ON AIRPORT BEACON	434545.42	0875105.77	1A	821		72	182 32	2505
TREE GROUND	434636.30 434634.18	0875058.21 0875035.90	1A 1A	812 746		63 -3	13 10 43 34	2699 3256
TREE	434545.71	0875144.28	1 <b>A</b>	799	•	50	230 58	3777
TREE TREE	434648.19 434542.80	0875046.46 0875018.29	1A 1A	804 796		55 47	21 44 130 36	4094 4430
TRANSMISSION TOWER	434634.58	0875232.50	1B	892		143	293 4	6853
TRANSMISSION TOWER TRANSMISSION TOWER	434542.40 434512.95	0875231.99 0875231.61	1B 1B	889 883		140 134	248 3 229 26	6948 8578



TOUCHDOWN ZONE RUNWAY ELEVATION
3 744
21 743
13 749
31 745

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(NOT TO SCALE)