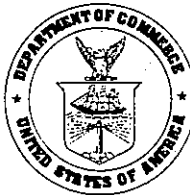# OBSTRUCTION DATA SHEET

ODS 5103
AURORA MUNICIPAL AIRPORT
CHICAGO/AURORA, ILLINOIS

DIGITIZED FROM

OC 5103
SURVEYED NOVEMBER 1993
3RD EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29

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
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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.
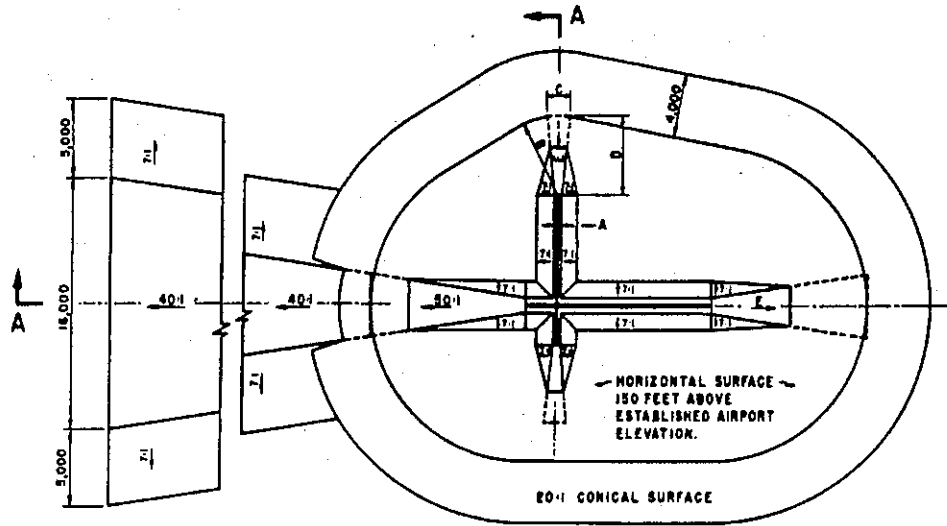
DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	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	*
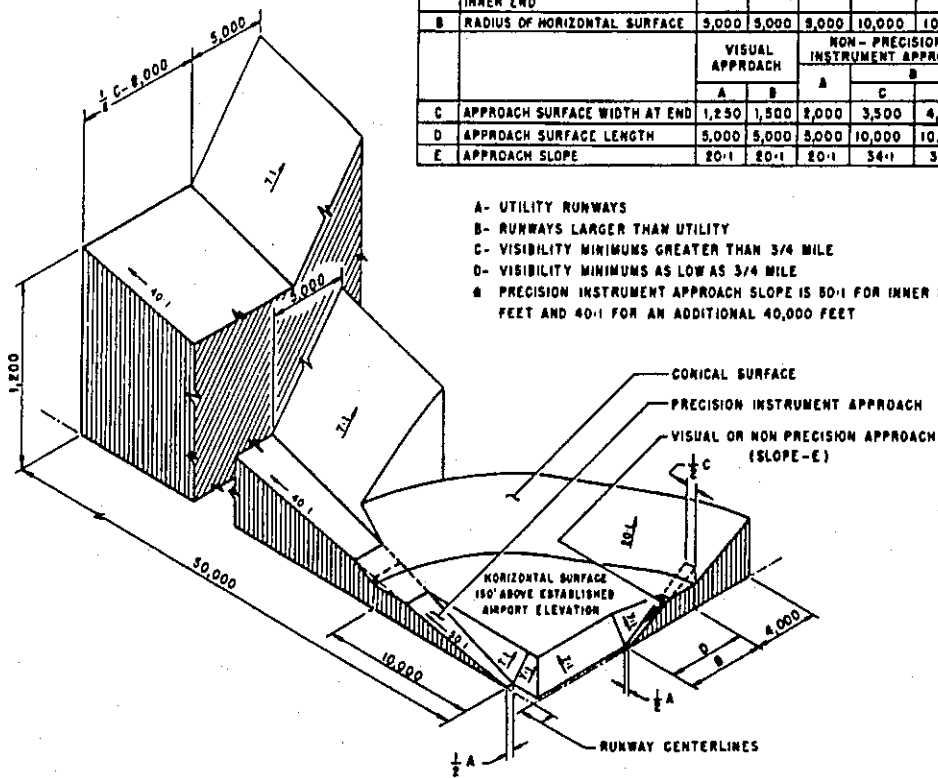
A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES
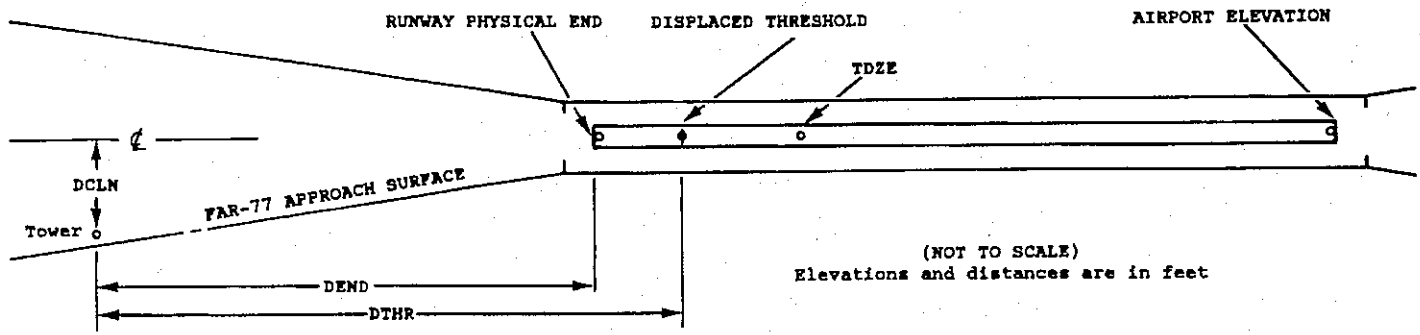
ANNOTATION OF ODS DATA FORMAT

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

****

PNTR

AGL

FAR-77 APPROACH SURFACE

HAR

HAT

HAA

N

RUNWAY PHYSICAL END   DISPLACED THRESHOLD   AIRPORT ELEVATION

TDZE

DCLN

Tower

FAR-77 APPROACH SURFACE

DEND

DTHR

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

OC5103

AIRPORT ELEVATION   706

18 AV   700/ 702   414635.698   -882817.829 1795632.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	414620.64	-882821.08	1A	705		5	3	-1	-1524		248R	6
BUSH	414627.93	-882819.71	1A	705		5	3	-1	-786		144R	8
FENCE	414639.69	-882820.07	1A	710		10	8	4	404		169R	0
ROAD(N)	414646.56	-882818.03	1A	721		21	19	15	1100		14R	-24
POLE	414646.81	-882821.74	1A	734		34	32	28	1125		295R	-12

36 ANP   700/ 702   414604.096   -882817.786 3595632.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	414627.93	-882819.71	1A	705		5	3	-1	-2413		144L	8
GROUND	414620.64	-882821.08	1A	705		5	3	-1	-1675		248L	6
POLE	414551.96	-882821.66	1A	734		34	32	28	1228		295L	-17

9   PIR   706/ 706   414612.554   -882907.320   890815.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON WSK	414615.87	-882754.64	1A	713		7	7	7	-5512		254L	8
WTEE	414615.43	-882811.71	1A	710		4	4	4	-4218		228L	7
OL ON WSK	414615.60	-882851.57	1A	705		-1	-1	-1	-1198		291L	8
ROD ON OL GS	414616.66	-882854.01	1A	735		29	29	29	-1014		400L	37
ROD ON BLDG	414616.60	-882919.81	1A	722		16	16	16	940		424L	1
ROAD (N)	414612.08	-882920.97	1A	723		17	17	17	1035		33R	0

27 C   706/ 706   414613.512   -882741.534 2690912.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	414616.66	-882854.01	1A	735		29	29	29	-5487		400R	37
OL ON WSK	414615.60	-882851.57	1A	705		-1	-1	-1	-5303		291R	8
WTEE	414615.43	-882811.71	1A	710		4	4	4	-2283		228R	7
OL ON WSK	414615.87	-882754.64	1A	713		7	7	7	-989		254R	8
ANT ON BLDG	414616.37	-882732.44	1A	715		9	9	9	693		279R	-6
OL ON LOC	414613.61	-882732.30	1A	709		3	3	3	700		0R	-12
ROAD (N)	414613.28	-882731.04	1A	713		7	7	7	795		35L	-11

PAGE 5

OC5103

AIRPORT ELEVATION   706

ARP   414615.298   -882822.244

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL AMOM	414624.81	-882823.12	1A	716		10	35710	965
TREE	414620.55	-882800.56	1A	747		41	7309	1727
ANT ON OL ATCT	414605.53	-882801.01	1A	784		78	12240	1888
ANT ON OL APBN	414604.13	-882755.74	1A	775		69	12028	2305
TREE	414639.82	-882822.33	1A	718		12	56	2482
HANGAR	414605.96	-882749.07	1A	746		40	11142	2686
WSK	414607.93	-882737.02	1A	714		8	10321	3507
TREE	414624.50	-882731.91	1A	791		85	7722	3926
TREE	414619.52	-882925.72	1A	740		34	27611	4829
ANT ON OL TANK	414530.66	-882642.69	1A	898		192	12200	8794
OL ON TANK	414718.02	-882535.42	1A	891		185	6424	14144

N

VAR 1.1°W

EL 700

18

3199 X 75 PAVED

ARP (1993)

6501 X 100 PAVED

9

EL 706

ARPT EL 706

27

EL 706

36

EL 700
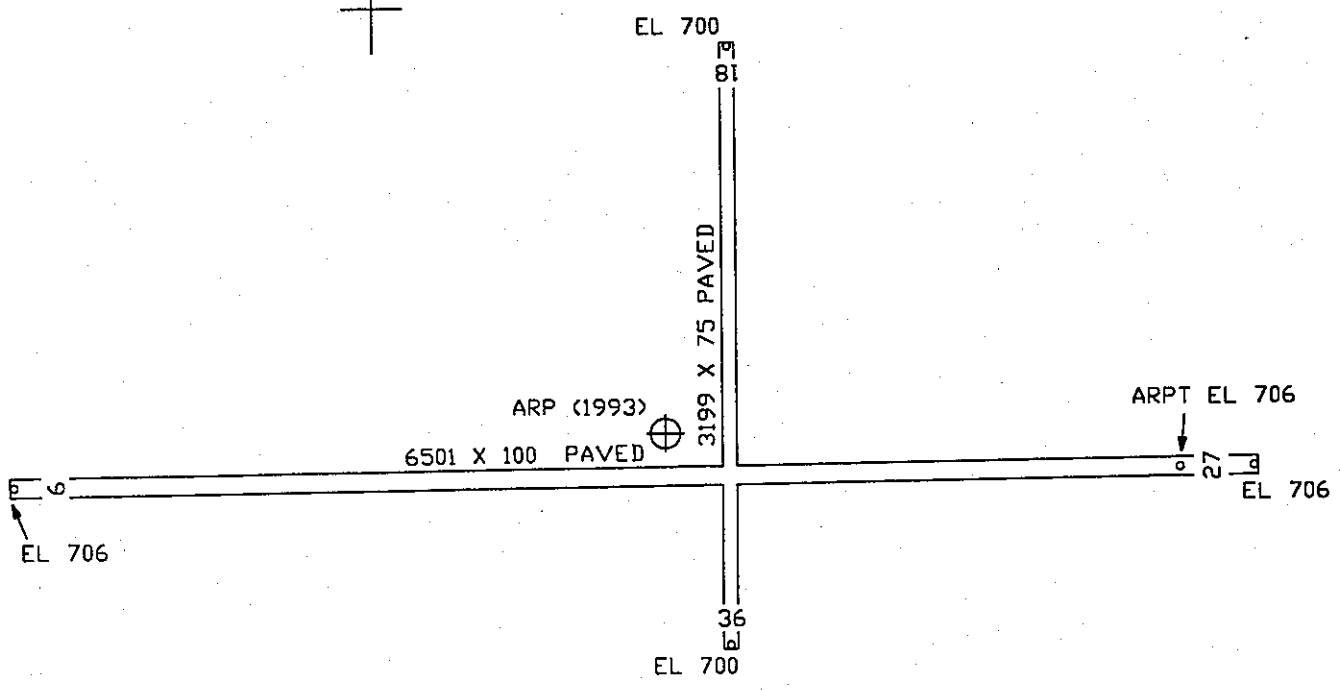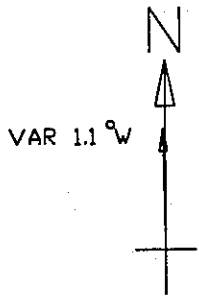
TOUCHDOWN ZONE
RUNWAY ELEVATION

18	702
36	702
9	706
27	706

AURORA MUNICIPAL AIRPORT

CHICAGO/AURORA, ILLINOIS

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)