OBSTRUCTION DATA SHEET

ODS 245
DANE COUNTY REGIONAL - TRUAX FIELD
MADISON, WISCONSIN

DIGITIZED FROM

OC 245
SURVEYED SEPTEMBER 1991
11TH EDITION

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

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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 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).

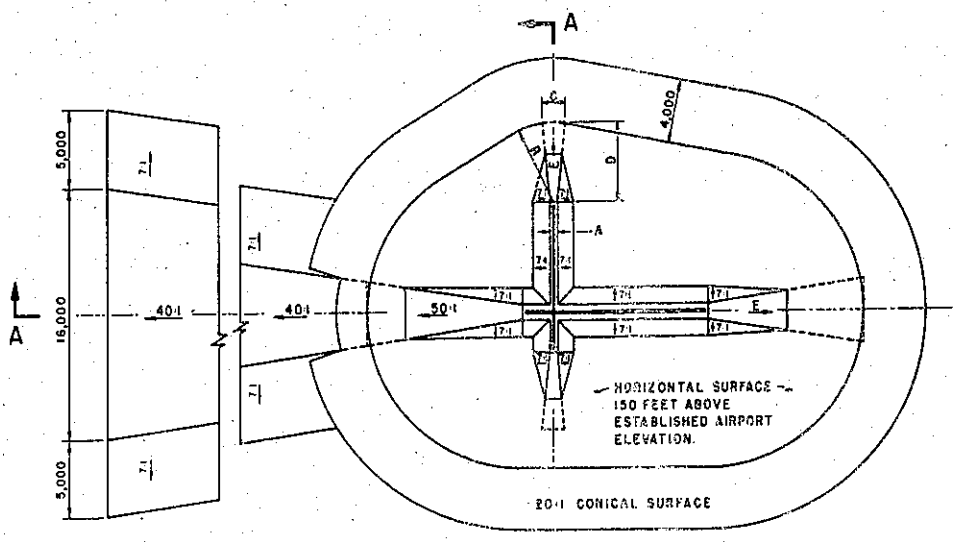
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

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):

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)

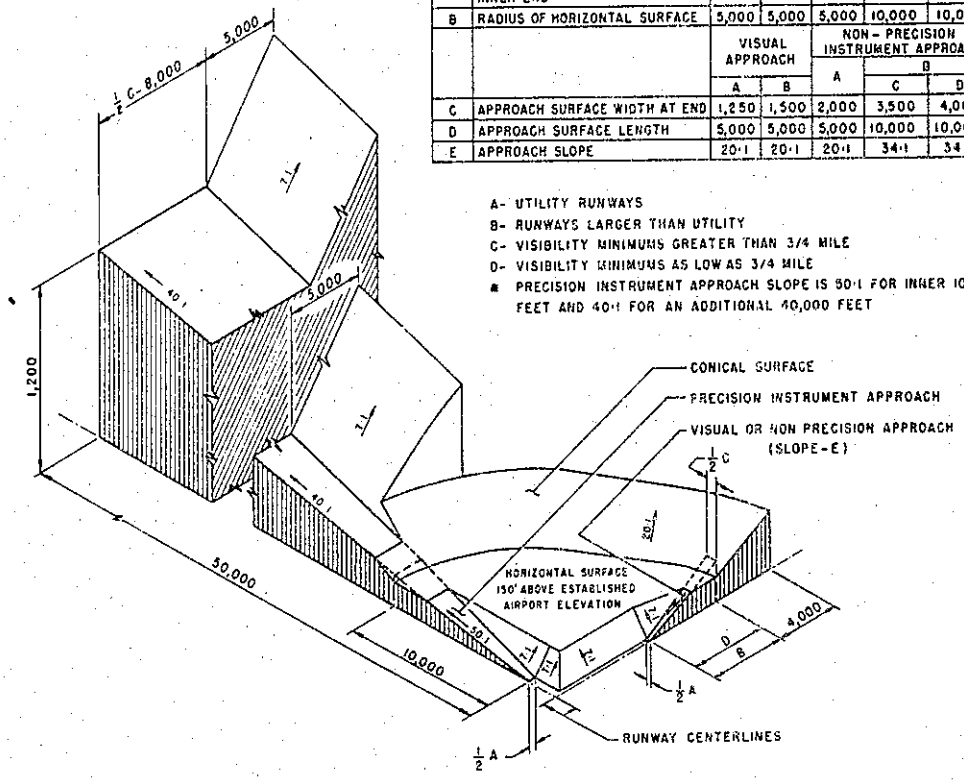
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



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	300	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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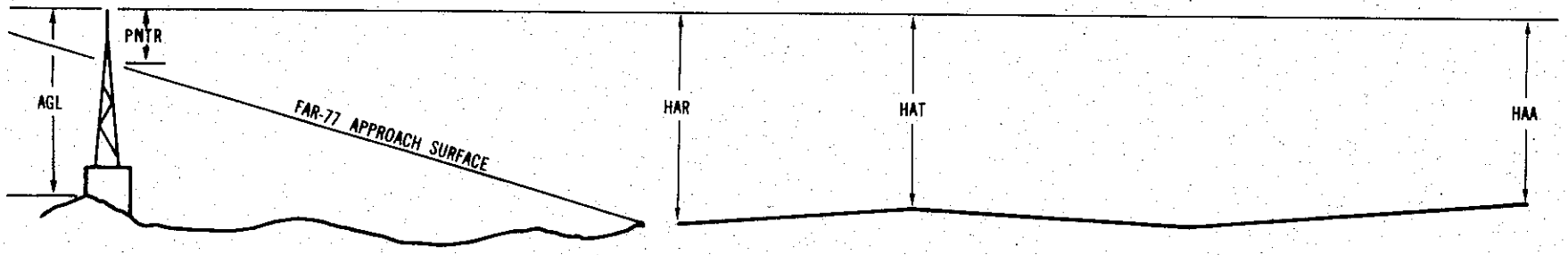
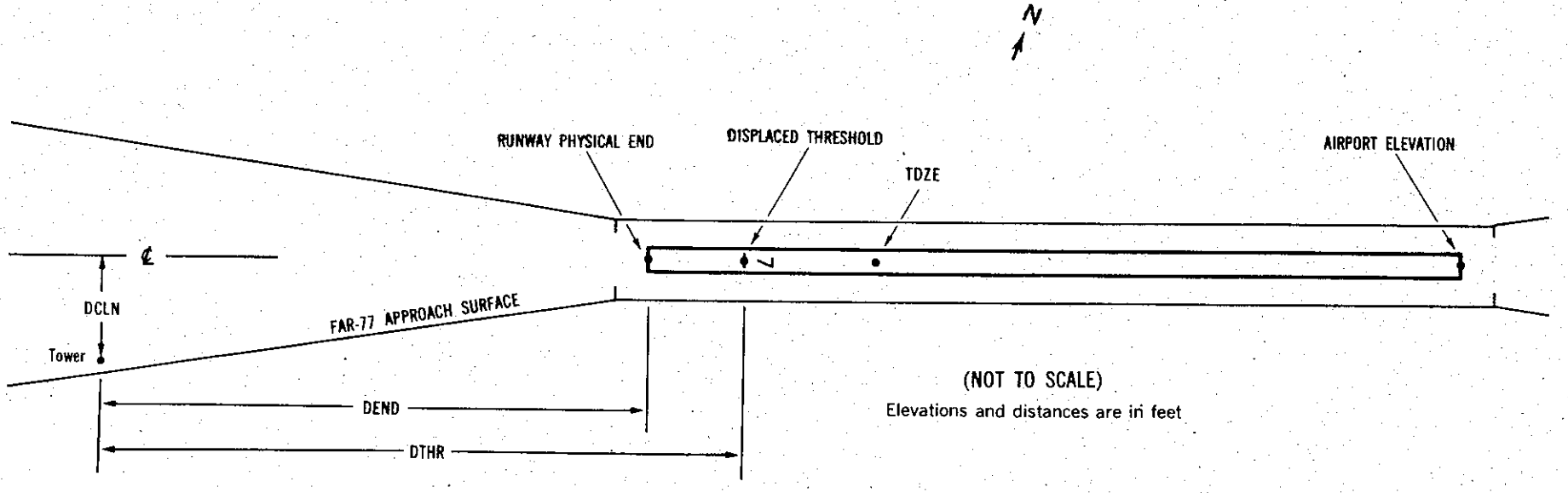




(NOT TO SCALE)

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 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

4 Latitude and longitude of reference runway approach physical end

5 Reference runway geodetic azimuth reckoned clockwise from south

6 Reference runway displaced threshold elevation/touchdown zone elevation

7 Latitude and longitude of reference runway displaced threshold

8 Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

9 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).

OC0245

AIRPORT ELEVATION 862

4 SUPLC 859/859 430802.041N 0892026.903W 2261403

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL TRANSMISSOMETER	430752.24	0892035.93	1A	874		15	15	12	1170		253R	-14
TREE	430754.65	0892044.00	1A	890		31	31	28	1433		337L	-5
TREE	430752.95	0892049.33	1A	906		47	47	44	1838		486L	-1
TREE	430748.36	0892045.71	1A	896		37	37	34	1965		36R	-15
BUILDING	430741.94	0892044.76	1A	890		31	31	28	2364		554R	-33

22 SUPLC 859/861 430834.144N 0891941.131W 0461434

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	430846.99	0891926.70	1A	898		39	37	36	1672		199R	-4
TREE	430847.11	0891916.43	1A	888		29	27	26	2231		318L	-31
TREE	430859.19	0891916.34	1A	944		85	83	82	3082		561R	1
TREE	430926.06	0891809.65	1B	1014		155	153	152	8534		893L	-90

8 A(V) 859/861 430836.537N 0892024.247W 2675950

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	430837.21	0892050.74	1A	937		78	76	75	1961		137L	-10

26 A(V) 859/861 430837.704N 0891938.558W 0880021

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	430838.79	0891914.49	1A	890		31	29	28	1787		47R	-48
TREE	430835.91	0891913.94	1A	897		38	36	35	1817		245L	-43

0C0245

AIRPORT ELEVATION 862

13 C 859/861 430852.480N 0892029.220W 3162539

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	430810.98	0891932.18	1A	881		22	20	19	-5959		169L	20
RAILROAD	430855.13	0892038.60	1A	882		23	21	20	674		319R	9
OL ON POLE	430856.47	0892037.74	1A	873		14	12	11	728		179R	-2
TREE	430856.57	0892039.42	1A	882		23	21	20	821		262R	5
RAILROAD	430858.78	0892037.29	1A	881		22	20	19	874		6L	2
POLE	430906.55	0892040.04	1A	890		31	29	28	1585		401L	-10
TREE	430908.62	0892058.50	1A	949		90	88	87	2680		446R	17

31 C 861/ 430810.646N 0891934.880W 1362616 861/861 430811.788N 0891936.363W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	430810.98	0891932.18	1A	881		20	20	19	114	273	169R	20
GROUND	430754.39	0891915.88	1A	893		32	32	31	2164	2323	113L	-26
ROD ON WIND INSTRUMENT	430743.26	0891858.62	1A	956		95	95	94	3863	4022	38R	-13
TREE	430744.67	0891852.97	1A	963		102	102	101	4047	4207	440R	-11
TREE	430659.57	0891803.63	1A	1015		154	154	153	9878	10038	54L	-131

OC0245

AIRPORT ELEVATION 862

36 PIR 860/ 430728.028N 0892031.381W 1815615 862/862 430737.789N 0892030.930W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	430842.29	0892033.35	1A	890		30	28	28	-7510	-6521	400L	30
OL VORTAC	430841.42	0892022.48	1A	890		30	28	28	-7449	-6460	408R	30
ROD ON OL TRANSMISSOMETER	430752.24	0892035.93	1A	874		14	12	12	-2439	-1450	420L	12
OL GLIDE SLOPE	430749.04	0892035.80	1A	888		28	26	26	-2115	-1126	400L	26
OL ON LOCALIZER	430718.73	0892031.81	1A	861		1	-1	-1	942	1930	0R	-14
POLE	430715.60	0892036.55	1A	875		15	13	13	1270	2259	341L	-6
TREE	430705.05	0892040.23	1A	885		25	23	23	2347	3336	577L	-18
ROD ON POLE	430701.08	0892032.92	1A	899		39	37	37	2731	3720	22L	-12

18 PIR 860/ 430856.914N 0892027.275W 0015617 859/860 430852.965N 0892027.458W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL GLIDE SLOPE	430749.04	0892035.80	1A	888		28	28	26	-6890	-6490	400R	26
ROD ON OL TRANSMISSOMETER	430752.24	0892035.93	1A	874		14	14	12	-6565	-6165	420R	12
OL VORTAC	430841.42	0892022.48	1A	890		30	30	28	-1556	-1156	408L	30
OL ON GLIDE SLOPE	430842.29	0892033.35	1A	890		30	30	28	-1495	-1095	400R	30
OL ON POLE	430904.76	0892034.53	1A	874		14	14	12	775	1176	565R	2
OL ON POLE	430906.17	0892034.00	1A	875		15	15	13	920	1320	530R	1
OL ON LOCALIZER	430907.79	0892026.78	1A	871		11	11	9	1101	1501	1R	-7
ANTENNA ON OL BUILDING	430908.93	0892030.08	1A	884		24	24	22	1208	1608	249R	4
ROAD (N)	430909.87	0892017.60	1A	902		42	42	40	1336	1736	672L	19
BUSH	430911.04	0892017.38	1A	918		58	58	56	1454	1854	685L	33
BUSH	430912.43	0892022.47	1A	893		33	33	31	1582	1982	303L	5
OL ON POLE	430912.59	0892020.91	1A	895		35	35	33	1602	2002	418L	7
GROUND	430912.81	0892017.25	1A	910		50	50	48	1634	2034	689L	21
OL ON POLE	430917.54	0892020.08	1A	909		49	49	47	2105	2505	462L	11
GROUND	430917.70	0892017.02	1A	925		65	65	63	2129	2529	689L	26
TREE	430918.88	0892033.96	1A	898		38	38	36	2206	2606	570R	-2
TREE	430925.31	0892014.55	1A	947		87	87	85	2905	3305	845L	33
TREE	430943.57	0892014.99	1A	950		90	90	88	4752	5152	750L	-1

0C0245

AIRPORT ELEVATION 862

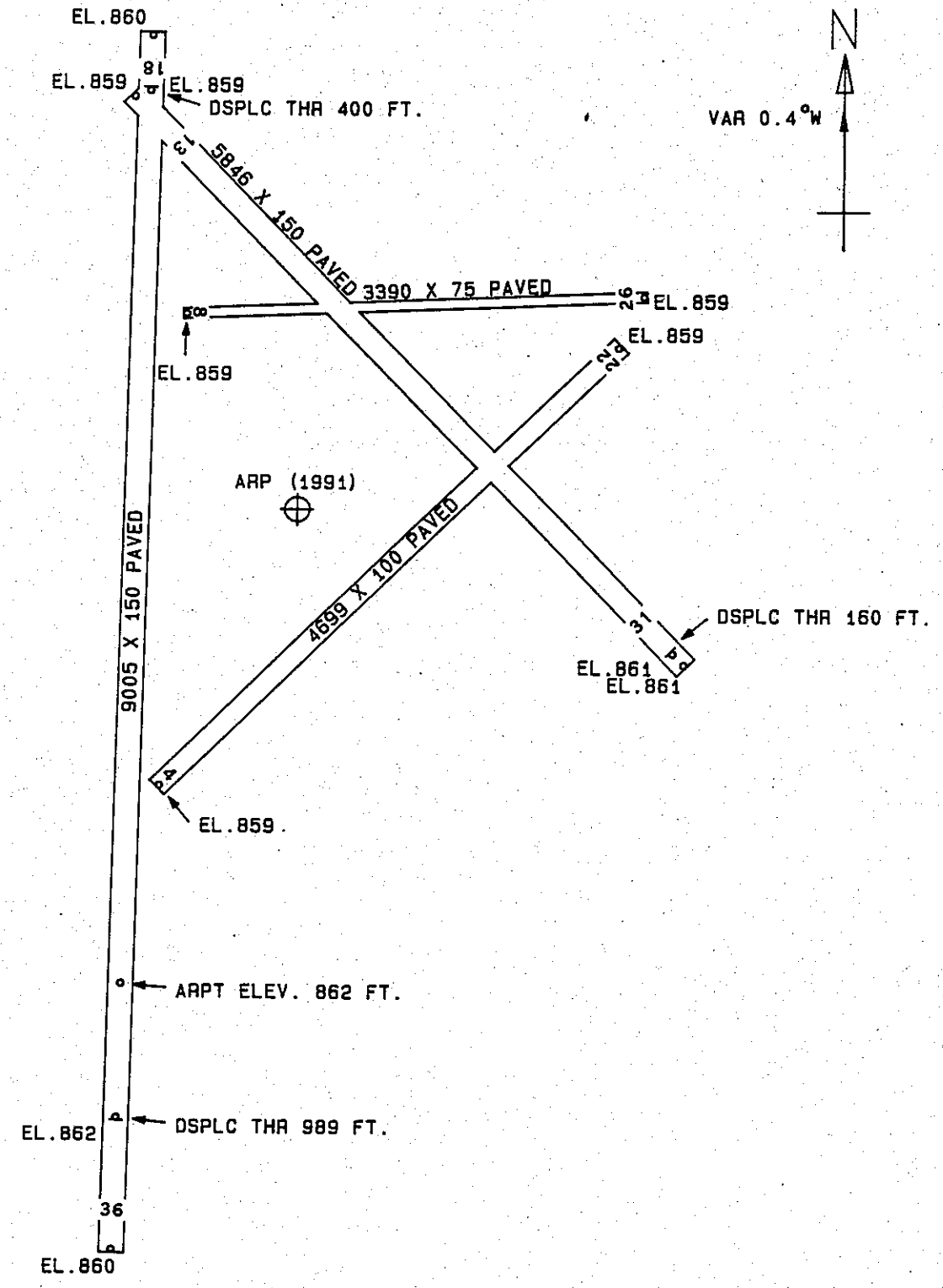
ARP 430822.131N 0892013.065W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL TOWER	430815.33	0892017.53	1A	884		22	206 5	764
ROD ON ANEMOMTETER	430829.16	0892018.65	1A	884		22	330 13	823
OL HANGAR	430758.66	0892006.75	1A	919		57	169 15	2421
ANTENNA ON OL ATCT	430820.68	0892046.58	1A	964		102	267 1	2490
ROD & WINDSOCK ON OL APBN	430825.17	0891934.94	1A	916		54	84 12	2843
TREE	430838.82	0892045.01	1A	951		89	305 54	2909
ROD ON RTR TOWER	430845.02	0892038.74	1A	908		46	321 0	3000
TREE	430748.32	0892016.46	1A	933		71	184 36	3432
TREE	430834.36	0891928.65	1A	924		62	69 48	3518
TREE	430901.53	0892012.29	1A	932		70	1 14	3989
TREE	430847.80	0891931.05	1A	880		18	50 33	4057
FENCE	430905.50	0892015.80	1A	916		54	357 45	4396
TREE	430906.34	0892005.21	1A	986		124	7 49	4514
TREE	430753.03	0891924.69	1A	936		74	129 48	4642
OL ON POLE	430909.75	0892016.39	1A	908		46	357 28	4827
ROD ON OL ASR	430910.61	0892005.88	1A	1011		149	6 36	4937
OL ON HANGAR	430732.10	0892021.10	1A	896		34	187 7	5100
POLE	430735.25	0892042.06	1A	887		25	204 46	5211
TREE	430728.07	0892016.63	1A	939		77	183 10	5480
TREE	430919.63	0892005.05	1A	1009		147	6 13	5852
TREE	430923.19	0892011.27	1A	987		125	1 38	6184
TREE	430720.77	0892020.00	1A	893		31	185 8	6233
TREE	430924.33	0892012.81	1A	972		110	0 34	6298
TREE	430809.09	0892138.48	1B	1033		171	258 38	6470
TREE	430839.76	0892138.28	1B	1023		161	286 11	6566
TREE	430825.63	0892144.77	1B	1009		147	273 23	6809
TREE	430717.32	0892045.58	1A	931		69	200 35	6991
ANTENNA ON BUILDING	430752.58	0891847.51	1A	976		114	115 38	7014
TREE	430803.22	0891838.37	1B	1020		158	105 39	7278
TREE	430938.01	0892003.68	1A	1012		150	5 34	7714
TREE	430826.88	0892158.32	1B	1038		176	273 56	7819
TREE	430812.48	0891823.71	1B	1037		175	97 16	8167
TREE	430942.76	0892007.54	1A	997		135	3 16	8174

AIRPORT ELEVATION 862

ARP 430822.131N 0892013.065W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	430704.42	0892045.68	1A	916		54	197 30	8231
ANTENNA ON TANK	430758.85	0891816.81	1B	1051		189	105 41	8936
TREE	430950.97	0891933.38	1B	1034		172	18 31	9464
TREE	430955.61	0891945.81	1B	1042		180	12 27	9678
ANTENNA ON OL WATER TANK	430819.30	0892224.57	1B	1159		297	268 44	9755
TREE	431007.13	0891940.50	1B	1036		174	13 11	10901
OL ON TRANSMISSION TOWER	430813.55	0891742.74	1B	1061		199	94 51	11180
OL ON TRANSMISSION TOWER	430802.88	0891735.53	1B	1055		193	99 51	11843
OL STACK	430632.29	0892126.04	1A	1061	200	199	206 21	12368
TREE	430713.79	0891742.46	1B	1019		157	122 10	13138
TREE	430806.68	0891714.89	2C	1099		237	97 8	13303
TREE	430659.33	0891652.75	2C	1122		260	119 49	17057



TOUCHDOWN ZONE RUNWAY	ELEVATION
4	859
22	861
8	861
26	861
13	861
31	861
36	862
18	860

DANE COUNTY REGIONAL - TRUAX FIELD

MADISON, WISCONSIN

(NOT TO SCALE)