

OBSTRUCTION DATA SHEET

**ODS 710
DECATUR AIRPORT
DECATUR, ILLINOIS**

DIGITIZED FROM

**OC 710
SURVEYED SEPTEMBER 1989
8TH EDITION**



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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:

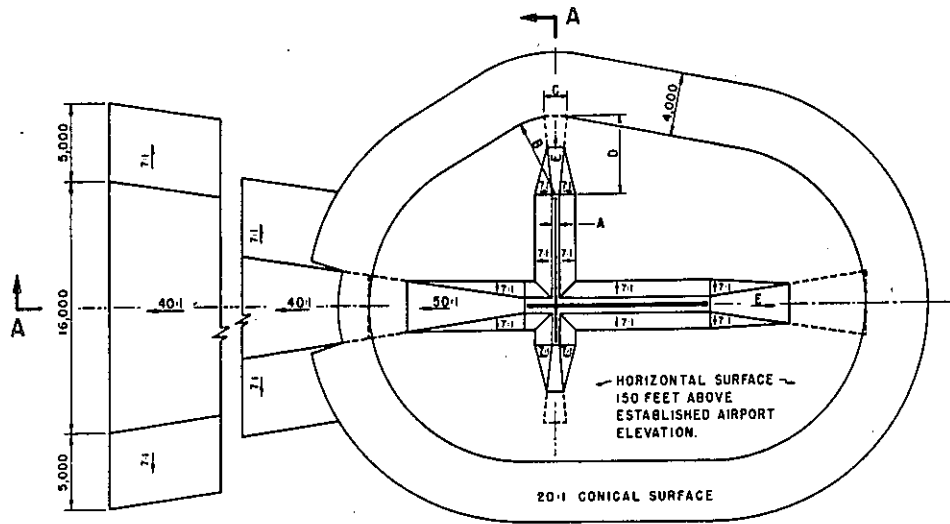
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

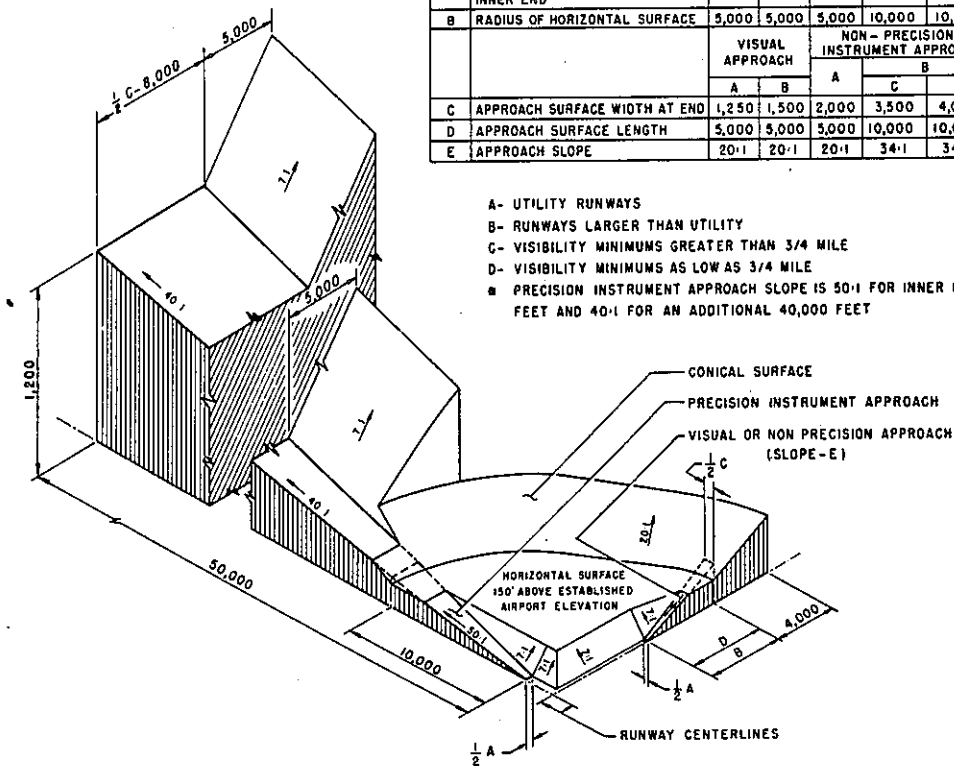
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach 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		
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	3,000	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

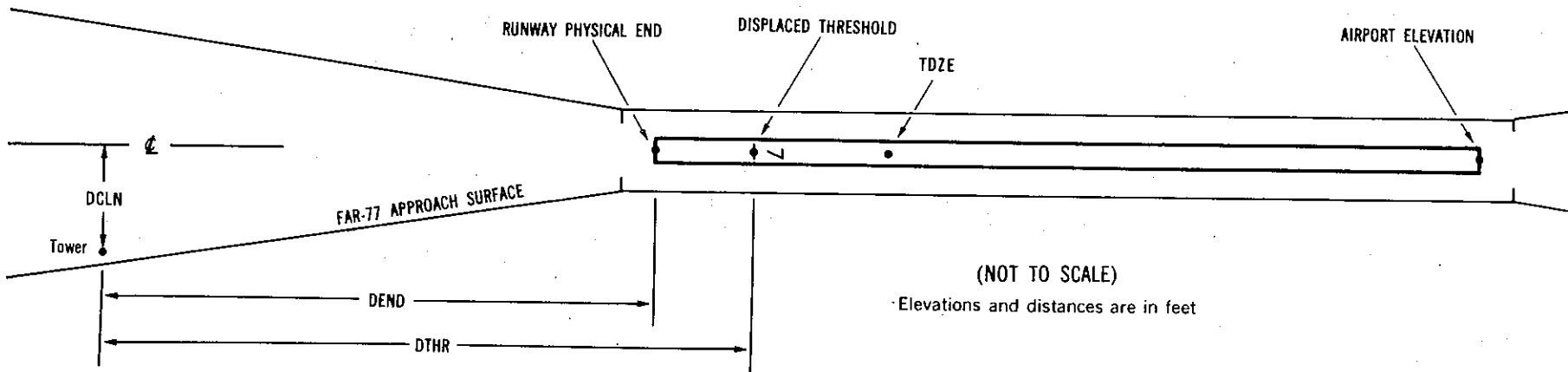
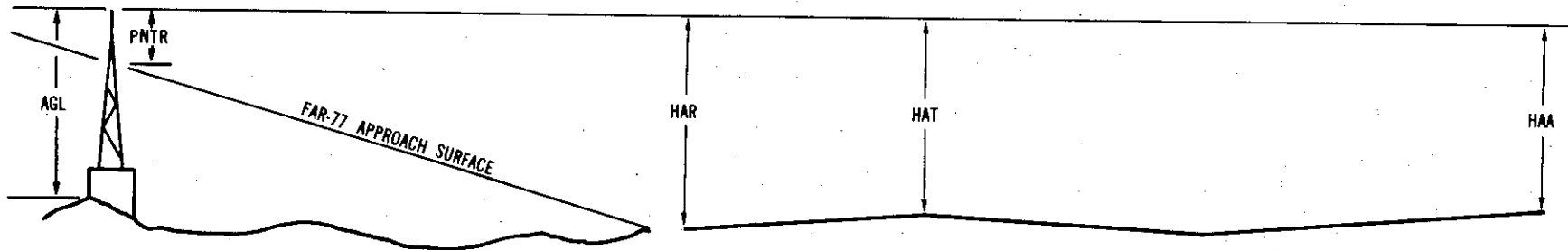
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X¹ X² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXXXX.XXX⁴ XXXXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXXXX.XXX⁷

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



(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).

OC0710

AIRPORT ELEVATION 682

6 PIR 672/676 394937.421N 0885227.992W 2390719

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	395004.87	0885118.45	1A	679		7	3	-3	-6082		400R	3
BUSH	394952.65	0885144.56	1A	684		12	8	2	-3699		416R	10
BUSH	394950.11	0885151.04	1A	683		11	7	1	-3133		378R	9
OL ON GLIDE SLOPE	394946.13	0885219.08	1A	706		34	30	24	-1049		400L	32
BUSH	394939.30	0885215.14	1A	687		15	11	5	-958		352R	13
ROAD (N)	394938.01	0885241.80	1A	690		18	14	8	894		604L	4
TREE	394916.72	0885259.71	1A	737		65	61	55	3199		527R	5

24 C 682/682 395020.501N 0885054.518W 0590818

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	394939.30	0885215.14	1A	687		5	5	5	-7538		352L	13
OL ON GLIDE SLOPE	394946.13	0885219.08	1A	706		24	24	24	-7447		400R	32
BUSH	394950.11	0885151.04	1A	683		1	1	1	-5362		378L	9
BUSH	394952.65	0885144.56	1A	684		2	2	2	-4797		416L	10
GROUND	395004.87	0885118.45	1A	679		-3	-3	-3	-2414		400L	3
OL ON LOCALIZER	395025.58	0885043.51	1A	691		9	9	9	1001		OR	-15
OL ON DME	395028.22	0885045.42	1A	699		17	17	17	1009		306R	-7
TREE	395031.55	0885046.23	1A	703		21	21	21	1128		628R	-6
TREE	395031.64	0885044.28	1A	699		17	17	17	1264		558R	-14

OC0710

AIRPORT ELEVATION 682

12 SUPLC 678/679 395028.389N 0885229.008W 2990816

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	395030.96	0885243.32	1A	704		26	25	22	1102		316R	-1
TREE	395035.21	0885243.37	1A	719		41	40	37	1315		57L	8
TREE	395039.48	0885243.43	1A	717		39	38	35	1529		432L	0
TREE	395033.73	0885251.85	1A	735		57	56	53	1819		396R	9
TREE	395039.00	0885249.56	1A	739		61	60	57	1923		157L	10

30 SUPLC 676/679 395002.891N 0885129.690W 1190854

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	395000.13	0885117.53	1A	692		16	13	10	965		218R	-6
BUILDING	394955.74	0885119.35	1A	683		7	4	1	1057		239L	-18

18 SUPLC 678/679 395029.106N 0885227.468W 3590707

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	395038.53	0885222.78	1A	737		59	58	55	948		380L	37
TREE	395043.36	0885223.77	1A	730		52	51	48	1437		310L	16
TREE	395044.35	0885232.97	1A	737		59	58	55	1549		405R	19
TREE	395044.94	0885227.97	1A	721		43	42	39	1602		14R	2
TREE	395046.39	0885226.73	1A	728		50	49	46	1747		84L	4
TREE	395047.33	0885222.00	1A	744		66	65	62	1837		455L	18

OC0710

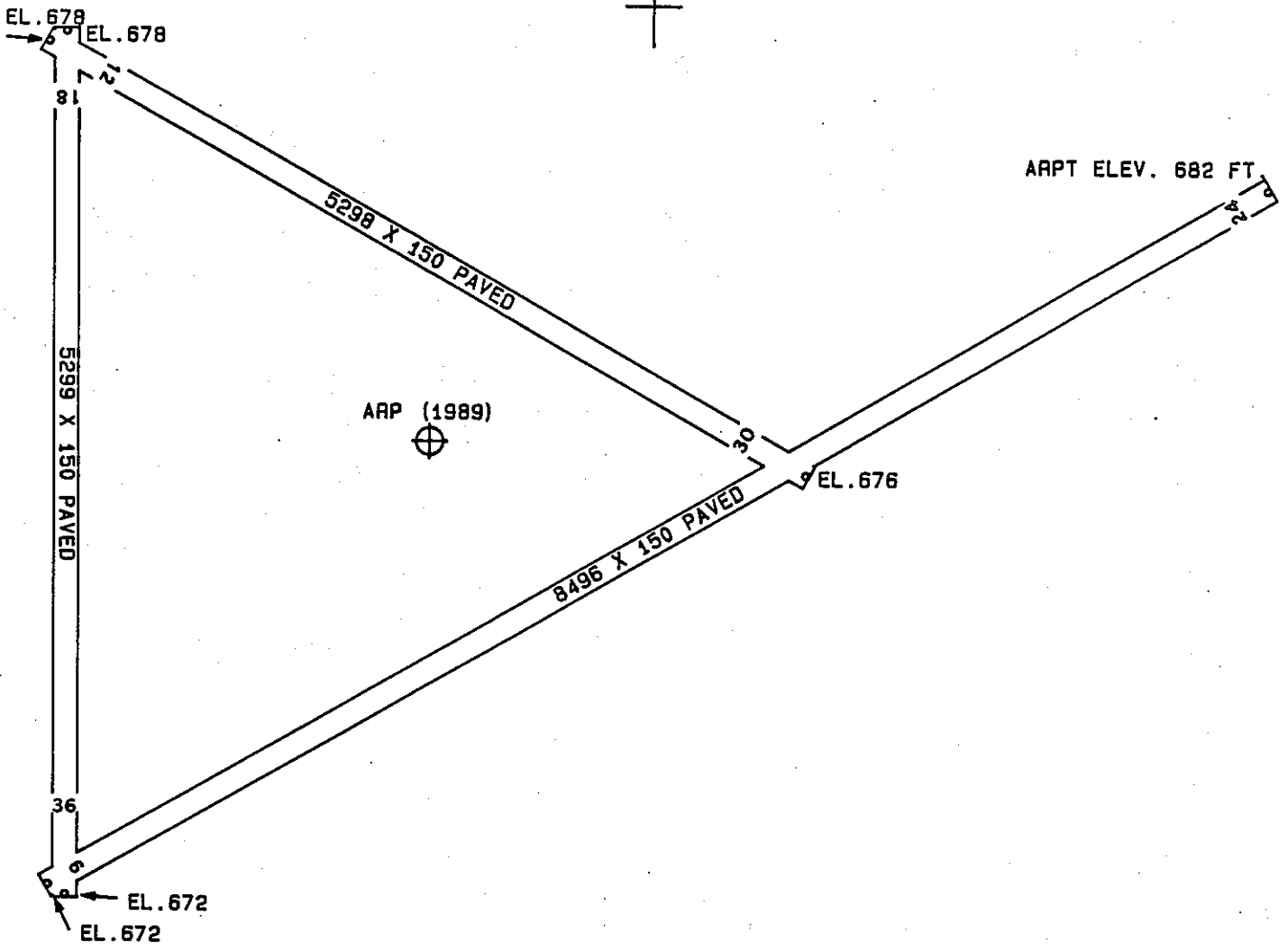
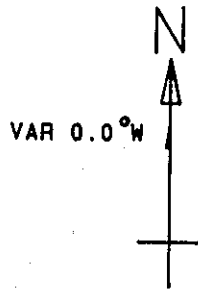
AIRPORT ELEVATION 682

36 C 672/678 394936.744N 0885226.423W 1790707

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
CHURCH SPIRE	394913.40	0885220.28	1A	720		48	42	38	2369		443R	-16
TREE	394909.25	0885218.55	1A	742		70	64	60	2791		571R	-6

ARP 395004.691N 0885158.958W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
OL ANEMOMETER	395005.49	0885217.41	1A	697		15	273	12	1442
TREE	395016.01	0885146.83	1A	754		72	39	33	1485
OL ON LIGHTED WINDSOCK	394959.67	0885232.08	1A	706		24	258	53	2634
ANTENNA ON OL CONTROL TR	395004.72	0885237.34	1A	752		70	270	3	2994
TREE	395033.71	0885223.47	1A	715		33	326	56	3504
TREE	395028.04	0885243.19	1A	727		45	304	24	4182
POLE	394938.99	0885241.19	1A	704		22	231	44	4197
TREE	394939.01	0885242.59	1A	721		39	232	39	4283
TREE	395043.22	0885221.94	1A	751		69	335	19	4291
TREE	394939.99	0885248.11	1A	754		72	236	55	4577
TREE	395045.57	0885234.78	1A	749		67	325	58	4992
TREE	395032.08	0885253.87	1A	742		60	302	54	5102
ANTENNA ON OL TOWER	394936.56	0885256.61	1A	760		78	237	41	5323
TREE	394934.22	0885259.09	1A	762		80	236	41	5614
ANTENNA	394838.64	0885019.61	2C	827		145	138	19	11658
CRANE	395152.65	0885313.93	1A	936	260	254	331	51	12391
OL GRAIN ELEVATOR	395138.21	0885403.22	2A	903	230	221	314	20	13546
OL STACK	395211.83	0885327.22	2A	999	322	317	331	51	14591



TOUCHDOWN ZONE RUNWAY ELEVATION	
6	676
24	682
12	679
30	679
18	679
36	678

DECATUR AIRPORT
 DECATUR, ILLINOIS
 (NOT TO SCALE)