

OBSTRUCTION DATA SHEET

**ODS 5316
ST LOUIS DOWNTOWN - PARKS AIRPORT
CAHOKIA / ST LOUIS, ILLINOIS**

DIGITIZED FROM

**OC 5316
SURVEYED JULY 1991
5TH 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:

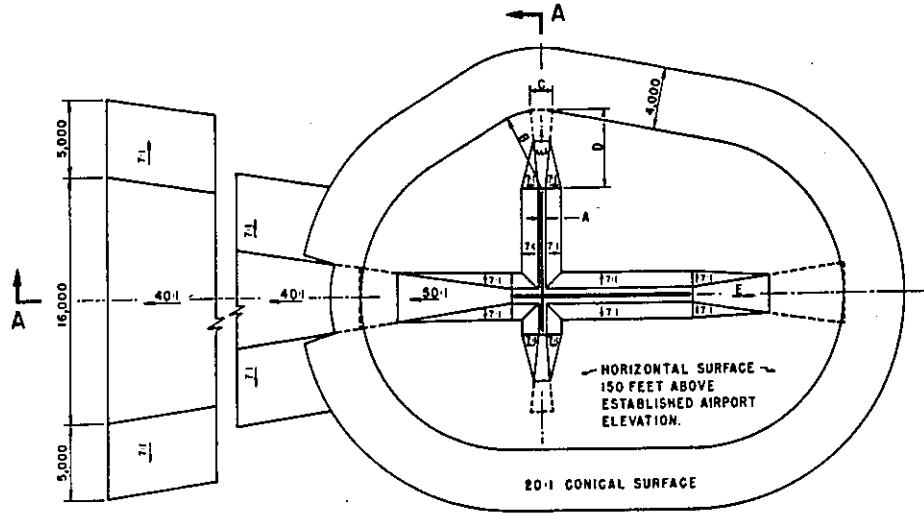
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

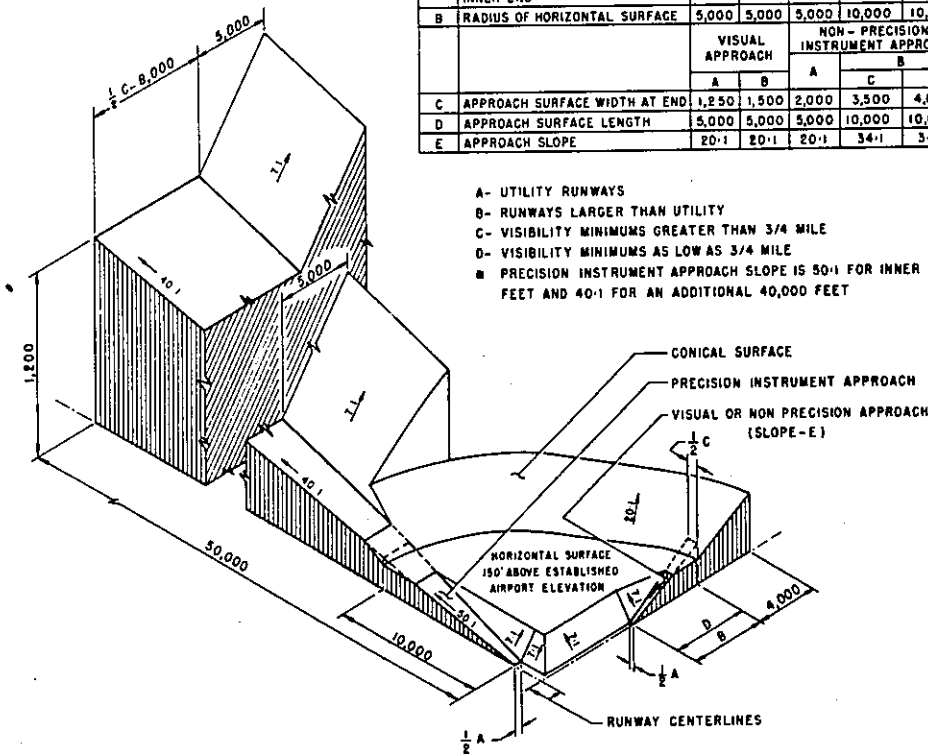
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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	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

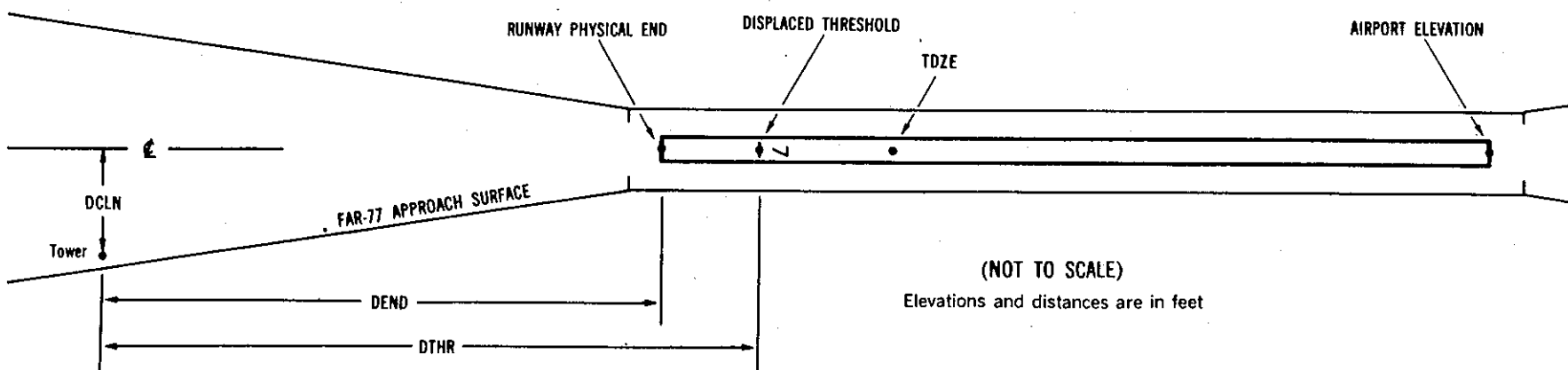
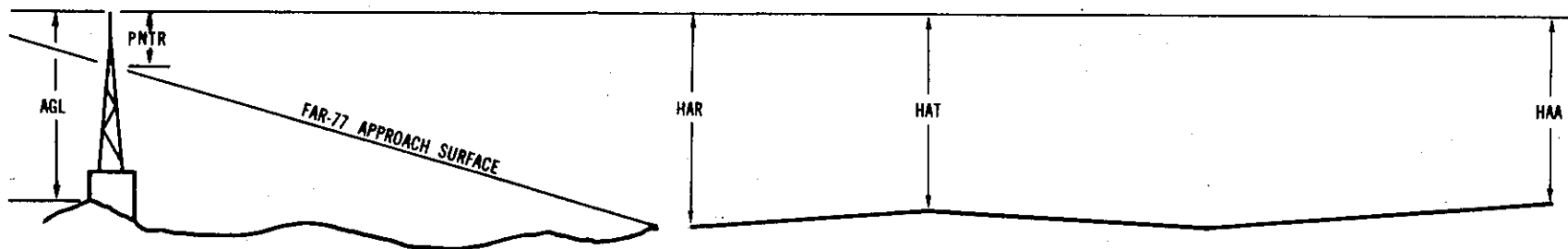
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXX.XXX ⁴	XXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXX.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
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).

OC5316

AIRPORT ELEVATION 413

4 A(V) 410/ 383420.299N 09010 6.317W 2265657

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	383416.65	0901014.74	1A	453		43		40	741		187L	16
TREE	383414.85	0901013.84	1A	459		49		46	813		6L	18
TREE	383411.17	0901017.51	1A	470		60		57	1281		68R	6
TREE	383411.30	0901021.86	1A	487		77		74	1523		177L	11

22 A(V) 409/ 383439.186N 0900940.561W 0465713

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	383446.93	0900929.87	1A	423		14		10	1155		7L	-34
OL TRANSMISSION TOWER	383450.45	0900925.55	1A	482		73		69	1649		19R	1

12L A(V) 411/411 383425.409N 0900929.165W 3021228

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	383405.56	0900845.84	1A	417		6	6	4	-3982		136L	10
TREE	383438.58	0900951.18	1A	440		29	29	27	2189		196L	-70
TREE	383437.41	0900954.15	1A	461		50	50	48	2326		30R	-56
TREE	383435.70	0900956.23	1A	456		45	45	43	2373		265R	-64
ANTENNA ON OL APBN	383438.87	0900956.85	1A	470		59	59	57	2586		20R	-60
TREE	383444.89	0901009.75	1A	483		72	72	70	3777		50R	-107
TREE	383442.04	0901012.78	1A	479		68	68	66	3827		423R	-113
TREE	383447.16	0901017.49	1A	497		86	86	84	4420		183R	-125
TREE	383450.81	0901019.53	1A	503		92	92	90	4754		43L	-136
TREE	383447.28	0901024.27	1A	504		93	93	91	4882		460R	-141

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AIRPORT ELEVATION 413

30R A(V) 407/410 383405.387N 0900848.684W 1221253

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	383405.56	0900845.84	1A	417		10	7	4	182		136R	10
TREE	383358.03	0900830.38	1A	453		46	43	40	1627		145R	-25
TREE	383354.26	0900831.37	1A	436		29	26	23	1763		219L	-49
TREE	383353.78	0900818.24	1A	471		64	61	58	2672		296R	-60

12R SUPLC 413/413 383426.200N 0900953.795W 3021221

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	383351.81	0900852.09	1A	416		3	3	3	-6001		331R	7
POWER BOX AND VASI	383356.32	0900855.99	1A	412		-1	-1	-1	-5496		111R	3
TREE	383357.92	0900903.13	1A	425		12	12	12	-4930		276R	16
TREE	383358.30	0900907.05	1A	427		14	14	14	-4646		409R	17
TREE	383400.54	0900908.84	1A	426		13	13	13	-4405		294R	16
POWER BOX AND VASI	383417.48	0900938.37	1A	416		3	3	3	-1507		94R	3
OL ON ANEMOMETER	383420.83	0900954.71	1A	433		20	20	20	-228		498R	20
TREE	383434.39	0900958.19	1A	443		30	30	30	737		515L	14
TREE	383435.37	0901000.18	1A	440		27	27	27	923		515L	6
RAILROAD	383435.04	0901011.40	1A	439		26	26	26	1660		11L	-17
TREE	383442.04	0901012.78	1A	479		66	66	66	2129		552L	9
TREE	383441.25	0901015.31	1A	484		71	71	71	2257		378L	11
TREE	383435.22	0901023.92	1A	490		77	77	77	2511		503R	9
TREE	383447.16	0901017.49	1A	497		84	84	84	2723		791L	10
TREE	383435.06	0901030.57	1A	521		108	108	108	2949		798R	27
TREE	383447.28	0901024.27	1A	504		91	91	91	3184		515L	3
TREE	383443.33	0901027.69	1A	508		95	95	95	3202		32L	7

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AIRPORT ELEVATION 413

30L PIR 409/412 383349.331N 0900839.260W 1221308

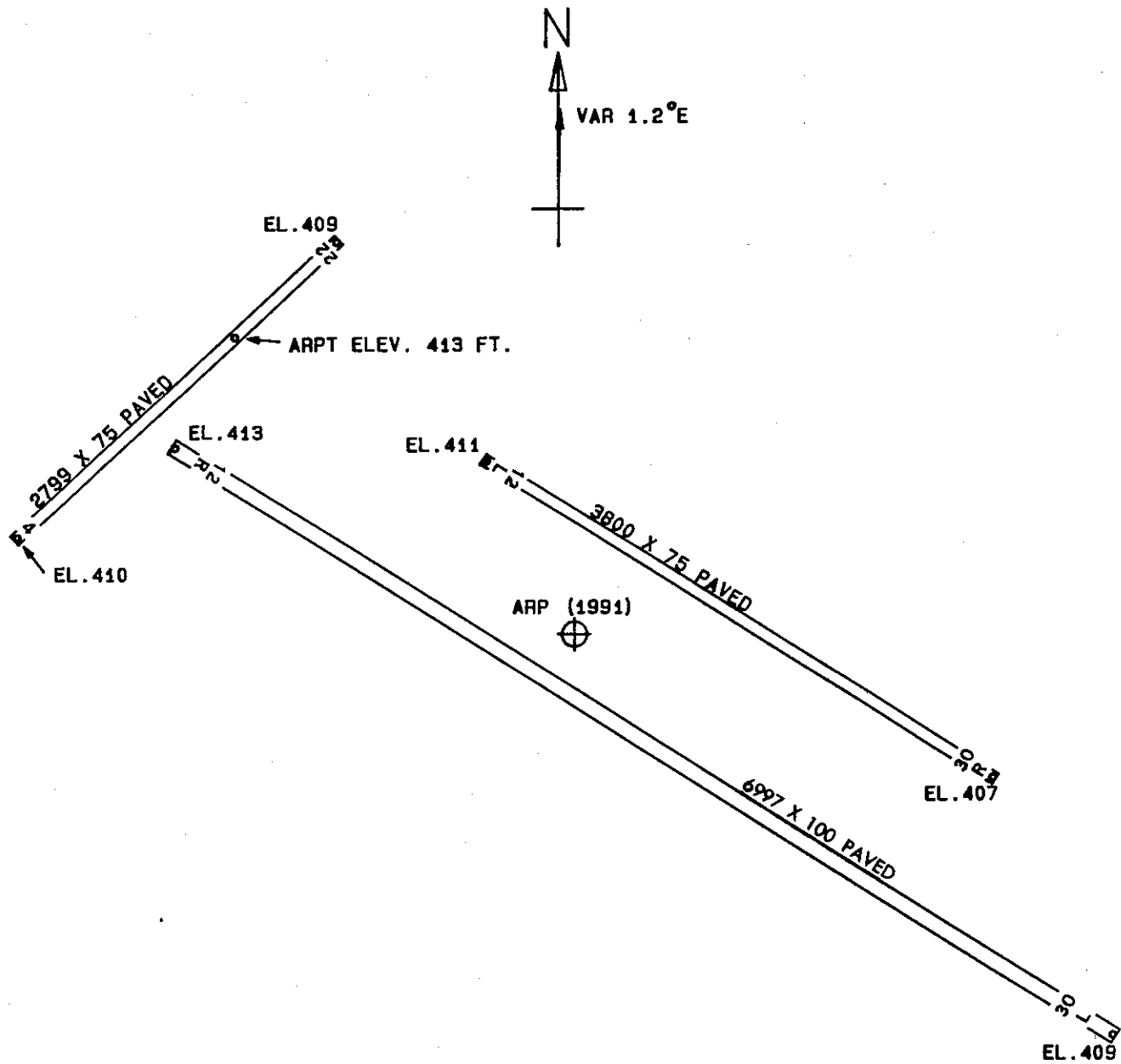
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON ANEMOMETER	383420.83	0900954.71	1A	433		24	21	20	-6769		498L	20
POWER BOX AND VASI	383417.48	0900938.37	1A	416		7	4	3	-5490		94L	3
TREE	383400.54	0900908.84	1A	426		17	14	13	-2592		294L	16
TREE	383358.30	0900907.05	1A	427		18	15	14	-2351		409L	17
TREE	383357.92	0900903.13	1A	425		16	13	12	-2067		276L	16
POWER BOX AND VASI	383356.32	0900855.99	1A	412		3	0	-1	-1501		111L	3
TREE	383351.81	0900852.09	1A	416		7	4	3	-996		331L	7
TREE	383351.55	0900832.01	1A	416		7	4	3	368		497R	4
TREE	383343.07	0900834.79	1A	420		11	8	7	638		347L	2
TREE	383340.10	0900832.99	1A	448		39	36	35	919		524L	25
POLE	383337.42	0900823.72	1A	437		28	25	24	1687		361L	-2
TREE	383329.35	0900758.40	1A	509		100	97	96	3823		21R	28

OC5316

AIRPORT ELEVATION 413

ARP 383414.424N 0900922.000W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
BUSH	383418.79	0900909.16	1A	424		11	65 22	1112
TREE	383407.45	0900936.60	1A	483		70	237 30	1357
ANTENNA ON OL ATCT	383412.63	0900943.54	1A	475		62	262 44	1721
TREE	383414.25	0900943.82	1A	445		32	268 13	1733
WINDSOCK	383429.10	0900945.83	1A	426		13	306 55	2405
FLOODLIGHT ON POLE	383437.46	0900932.93	1A	473		60	338 22	2487
ANTENNA ON BUILDING	383439.18	0900934.56	1A	448		35	337 5	2696
TRANSMISSION TOWER	383445.59	0900919.55	1A	487		74	2 20	3159
OL ON GLIDE SLOPE	383350.05	0900854.29	1A	452		39	137 3	3305
ANTENNA ON WATER TANK	383339.03	0900937.53	1B	549		136	197 49	3788
TRANSMISSION TOWER	383409.05	0900833.24	1A	472		59	96 47	3911
TREE	383413.02	0901011.70	1A	461		48	266 44	3950
OL TRANSMISSION TOWER	383454.90	0900930.65	1A	481		68	349 17	4151
TREE	383407.79	0901016.98	1A	469		56	260 4	4418
TREE	383416.94	0901018.14	1A	492		79	272 5	4466
TREE	383337.69	0900831.94	1A	459		46	131 52	5442
TREE	383330.18	0900830.16	1A	503		90	136 11	6082
TREE	383330.60	0900823.30	1A	486		73	132 21	6434
TREE	383328.25	0900825.10	1A	488		75	134 45	6500
ANTENNA ON OL TR(SE of 2)	383537.35	0900906.20	1B	550		137	7 18	8483
STACK	383555.15	0900753.98	2A	678	258	265	33 14	12357
STACK	383548.03	0900732.01	2A	671	251	258	41 29	12882
OL TRANSMISSION TOWER	383545.81	0901121.11	2A	659	242	246	313 9	13226
STACK (SE 1 of 6)	383609.72	0901108.60	2A	748	333	335	322 50	14411
OL ON RADIO TOWER	383526.49	0901221.16	2A	772	361	359	295 57	15987



TOUCHDOWN ZONE RUNWAY ELEVATION	
12L	411
30R	410
12R	413
30L	412

ST LOUIS DOWNTOWN - PARKS AIRPORT
 CAHOKIA / ST LOUIS, ILLINOIS
 (NOT TO SCALE)