

OBSTRUCTION DATA SHEET

**ODS 118
DETROIT CITY AIRPORT
DETROIT, MICHIGAN**

DIGITIZED FROM

**OC 118
SURVEYED SEPTEMBER 1990
9TH 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:

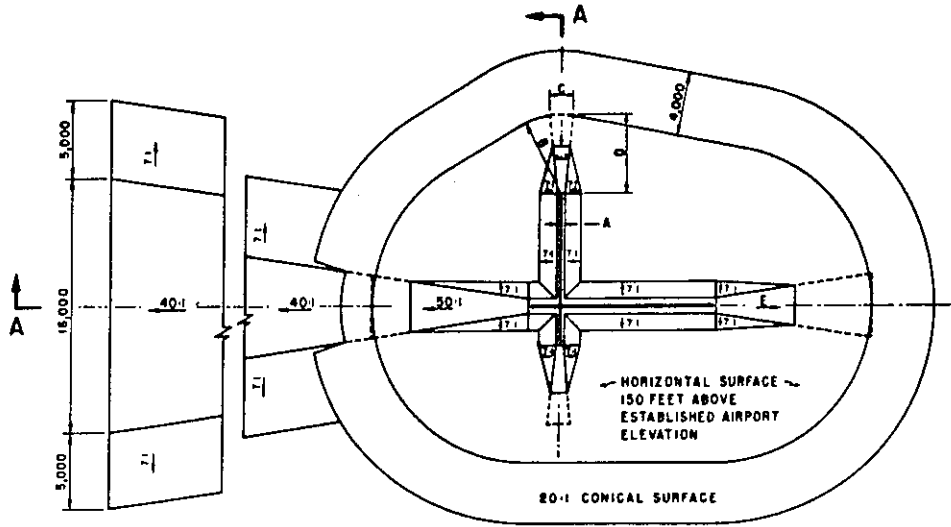
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

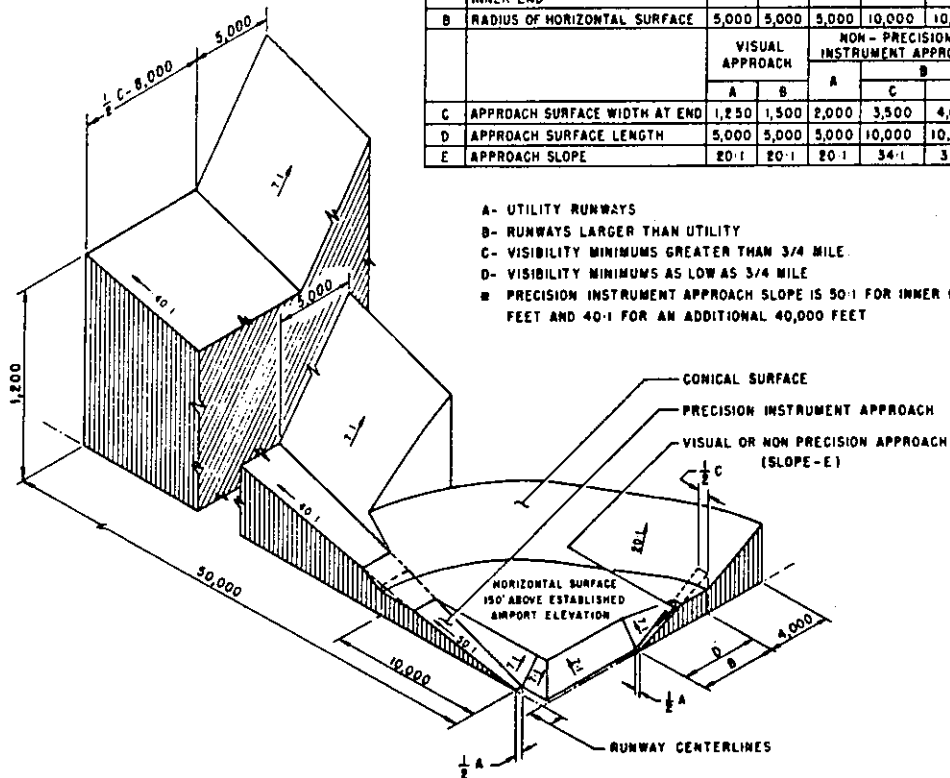
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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
C	APPROACH SURFACE WIDTH AT END	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

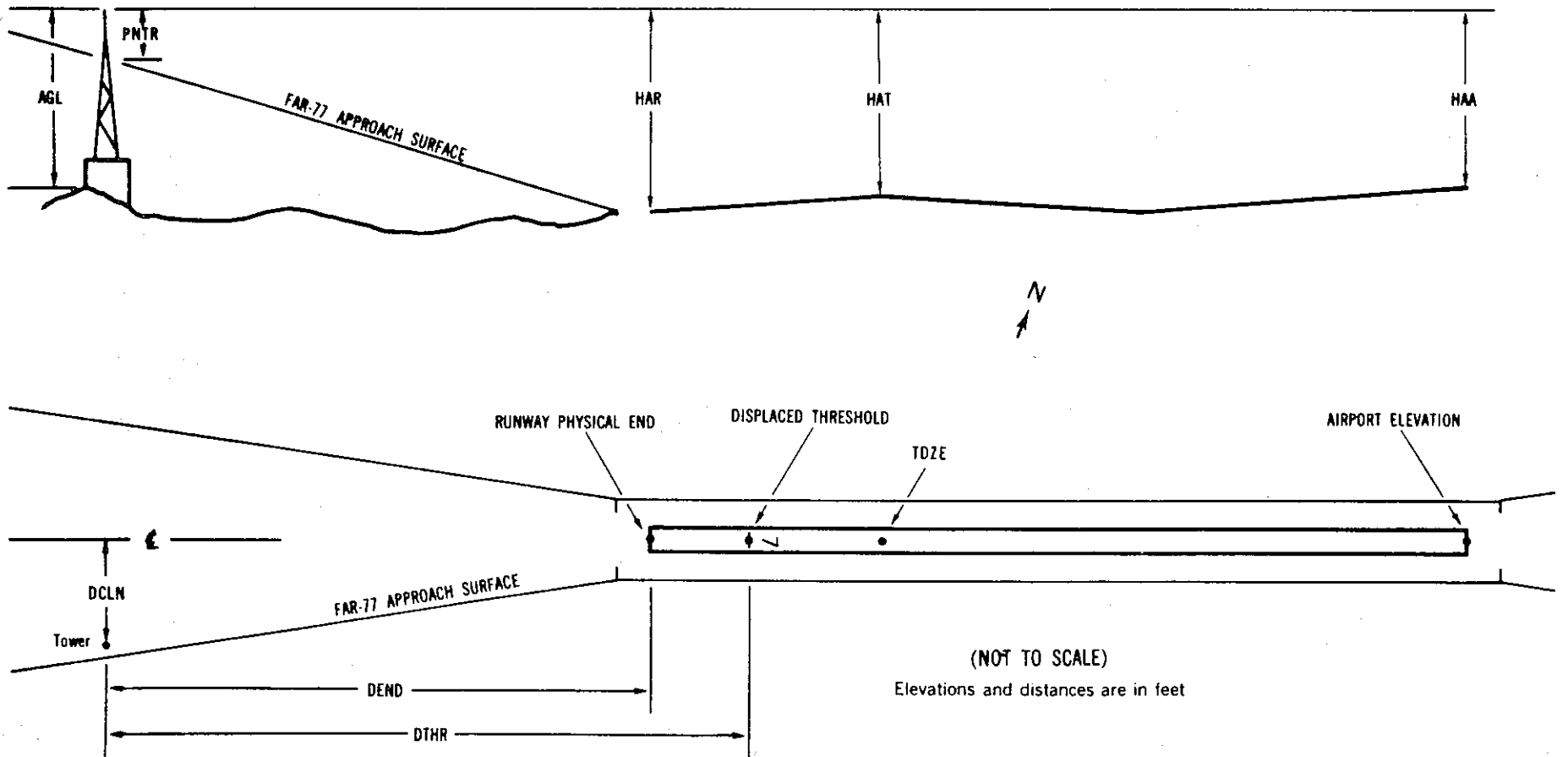
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X¹ X² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXX.XXX⁴ XXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXX.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



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).

OC0118

AIRPORT ELEVATION 626

7 A(V) 625/ 422410.222N 0830056.945W 2431759 626/626 422413.394N 0830048.436W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
LIGHT STANDARD	422429.97	0830008.09	1A	654		29	28	28	-4173	-3459	139L	32
OL ON POLE	422428.67	0830007.45	1A	637		12	11	11	-4157	-3442	0L	15
RAILROAD	422409.11	0830056.21	1A	650		25	24	24	1	716	126R	25
RAILROAD	422409.04	0830058.97	1A	650		25	24	24	190	904	39R	25
OL ON STACK	422407.82	0830102.09	1A	659		34	33	33	454	1169	44R	21
TREE	422409.37	0830103.18	1A	658		33	32	32	457	1171	133L	20
LIGHT STANDARD	422408.40	0830106.17	1A	653		28	27	27	701	1416	146L	3
OL STACK ON BUILDING	422405.63	0830107.99	1A	668		43	42	42	949	1664	43R	6
TREE	422401.96	0830115.19	1A	693		68	67	67	1598	2313	132R	-2

25 A(V) 622/ 422428.082N 08300 9.023W 0631831 624/626 422424.904N 0830017.554W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
RAILROAD	422409.04	0830058.97	1A	650		28	24	24	-4214	-3498	39L	25
RAILROAD	422409.11	0830056.21	1A	650		28	24	24	-4026	-3309	126L	25
OL ON POLE	422428.67	0830007.45	1A	637		15	11	11	132	849	0R	15
LIGHT STANDARD	422429.97	0830008.09	1A	654		32	28	28	149	865	139R	32
LIGHT STANDARD	422428.17	0830005.70	1A	654		32	28	28	226	943	104L	31
TREE	422429.77	0830006.21	1A	664		42	38	38	265	981	58R	39
TREE	422428.96	0830005.40	1A	663		41	37	37	283	999	43L	37
OL ON STACK ON BUILDING	422430.44	0830002.18	1A	671		49	45	45	566	1282	17L	31
OL ON FLOODLIGHT	422431.77	0830002.24	1A	668		46	42	42	622	1338	105R	25
TREE	422429.90	0830000.50	1A	677		55	51	51	654	1370	123L	32
TREE	422430.52	0825957.99	1A	680		58	54	54	851	1567	151L	25
OL FLOODLIGHT	422432.97	0825958.78	1A	668		46	42	42	909	1625	97R	11
ANTENNA ON BUILDING	422431.50	0825957.38	1A	670		48	44	44	936	1652	84L	11
TREE	422432.54	0825957.69	1A	687		65	61	61	963	1679	21R	27

OC0118

AIRPORT ELEVATION 626

15 PIR 624/624 422504.538N 0830058.740W 3231854

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GLIDE SLOPE	422429.85	0830029.43	1A	673		49	49	47	-4130		335R	50
TREE	422443.05	0830044.99	1A	689		65	65	63	-2360		472R	66
CROSS ON OL SPIRE	422448.08	0830049.63	1A	674		50	50	48	-1744		447R	51
ROD ON OL GLIDE SLOPE	422458.25	0830046.26	1A	672		48	48	46	-1070		370L	49
TREE	422454.52	0830055.27	1A	693		69	69	67	-969		397R	70
OL LIGHT STANDARD	422458.39	0830058.84	1A	648		24	24	22	-495		378R	25
FENCE POST	422507.06	0830054.14	1A	632		8	8	6	-2		429L	8
TREE	422502.99	0830104.07	1A	666		42	42	40	113		414R	42
TREE	422503.37	0830106.07	1A	677		53	53	51	233		512R	52
TREE	422505.13	0830105.64	1A	672		48	48	46	357		380R	45
TREE	422505.40	0830107.22	1A	681		57	57	55	450		458R	52
TREE	422511.28	0830059.30	1A	648		24	24	22	573		374L	17
OL ON LOCALIZER	422510.23	0830104.45	1A	629		5	5	3	718		0L	-5
TREE	422513.41	0830059.25	1A	661		37	37	35	743		506L	26
TREE	422507.88	0830109.29	1A	671		47	47	45	744		432R	36
TREE	422511.11	0830107.30	1A	649		25	25	23	917		118R	11
FLAGPOLE	422509.93	0830110.46	1A	658		34	34	32	963		379R	19
TREE	422512.18	0830111.50	1A	667		43	43	41	1192		305R	23
TREE	422511.83	0830115.00	1A	671		47	47	45	1320		537R	25
TREE	422514.89	0830118.10	1A	694		70	70	68	1708		538R	40
TREE	422522.79	0830104.80	1A	709		85	85	83	1753		739L	54
TREE	422521.45	0830114.34	1A	677		53	53	51	2072		85L	16
TREE	422519.01	0830120.24	1A	682		58	58	56	2139		418R	19
TREE	422527.83	0830110.77	1A	706		82	82	80	2430		685L	37
TREE	422522.67	0830123.05	1A	690		66	66	64	2561		365R	19
TREE	422526.32	0830118.60	1A	696		72	72	70	2658		123L	23
TREE	422528.08	0830117.65	1A	698		74	74	72	2759		286L	23
TREE	422528.10	0830124.41	1A	700		76	76	74	3063		119R	19
TREE	422535.92	0830120.18	1A	703		79	79	77	3509		609L	13
TREE	422529.93	0830134.16	1A	700		76	76	74	3649		595R	7
STACK	422641.49	0830220.84	1A	771		147	147	145	11549		927L	-87

OC0118

AIRPORT ELEVATION 626

33 PIR 624/625 422423.763N 0830017.754W 1431922

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	422502.99	0830104.07	1A	666		42	41	40	-5260		414L	42
FENCE POST	422507.06	0830054.14	1A	632		8	7	6	-5145		429R	8
OL LIGHT STANDARD	422458.39	0830058.84	1A	648		24	23	22	-4652		378L	25
TREE	422454.52	0830055.27	1A	693		69	68	67	-4178		397L	70
ROD ON OL GLIDE SLOPE	422458.25	0830046.26	1A	672		48	47	46	-4077		370R	49
CROSS ON OL SPIRE	422448.08	0830049.63	1A	674		50	49	48	-3403		447L	51
TREE	422443.05	0830044.99	1A	689		65	64	63	-2787		472L	66
ROD ON OL GLIDE SLOPE	422429.85	0830029.43	1A	673		49	48	47	-1017		335L	50
TREE	422420.13	0830018.93	1A	642		18	17	16	243		290L	17
OL ON LOCALIZER	422421.24	0830015.22	1A	630		6	5	4	319		OR	4
TREE	422418.46	0830018.78	1A	648		24	23	22	385		382L	20
ROD ON OL BUILDING	422422.52	0830011.25	1A	637		13	12	11	392		317R	9
TREE	422421.08	0830010.75	1A	654		30	29	28	532		259R	23
TREE	422421.64	0830008.12	1A	671		47	46	45	604		451R	39
PIPE ON OL BUILDING	422421.53	0830005.60	1A	676		52	51	50	726		596R	41
ANTENNA ON BUILDING	422414.77	0830017.40	1A	656		32	31	30	746		522L	21
TREE	422413.66	0830013.73	1A	659		35	34	33	1001		368L	19
TREE	422414.00	0830004.29	1A	662		38	37	36	1396		220R	14
OL ON BUILDING	422409.26	0830012.44	1A	692		68	67	66	1415		557L	44
TREE	422409.48	0830010.83	1A	669		45	44	43	1469		447L	20
FLOODLIGHT ON BUILDING	422415.32	0825958.37	1A	667		43	42	41	1554		656R	16
TREE	422408.95	0830004.46	1A	669		45	44	43	1798		96L	13
TREE	422405.54	0830007.64	1A	679		55	54	53	1933		493L	20
TREE	422410.54	0825954.15	1A	683		59	58	57	2131		621R	20
TREE	422407.12	0825959.62	1A	677		53	52	51	2164		85R	14
TREE	422404.91	0825952.61	1A	691		67	66	65	2658		373R	18
TREE	422405.41	0825947.02	1A	695		71	70	69	2867		740R	18
CHIMNEY ON BUILDING	422358.47	0825949.07	1A	704		80	79	78	3339		197R	17
TREE	422352.68	0825954.41	1A	693		69	68	67	3570		474L	2
FLAGPOLE	422400.57	0825938.06	1A	709		85	84	83	3662		986R	16
OL ON BUILDING	422358.56	0825938.01	1A	709		85	84	83	3827		868R	12
ANTENNA	422351.01	0825950.12	1A	700		76	75	74	3898		317L	2
OL STACK	422333.65	0825922.45	1A	757		133	132	131	6547		298R	6

OC0118 File Continued from Previous Page

AIRPORT ELEVATION 626

33 PIR 624/625 422423.763N 0830017.754W 1431922

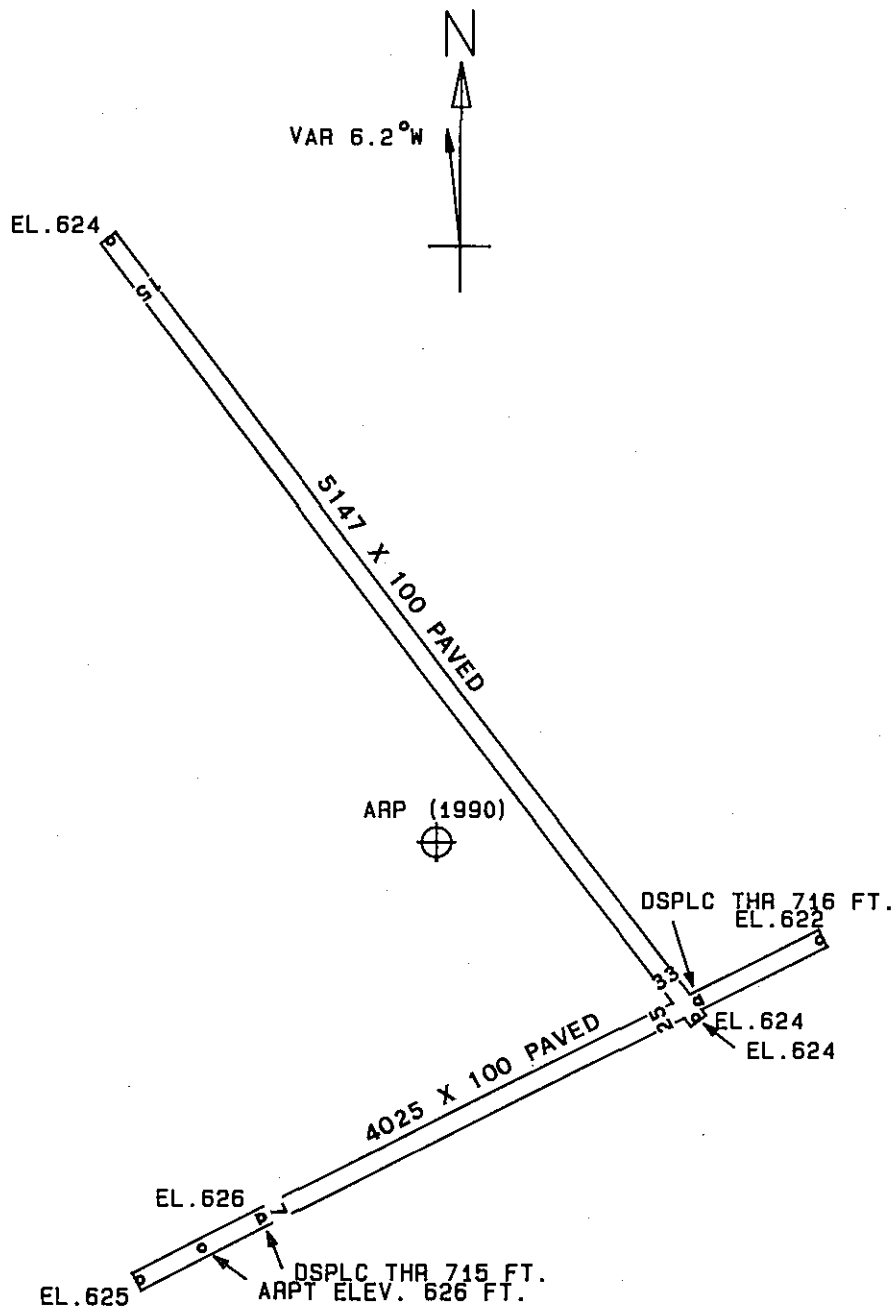
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON STACK	422311.88	0825853.30	1A	791		167	166	165	9621		737R	-21

OC0118

AIRPORT ELEVATION 626

ARP 422433.182N 0830035.937W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	422431.60	0830034.37	1A	674		48	149 53	199
LIGHT STANDARD	422428.42	0830031.12	1A	654		28	149 21	603
ANEMOMETER	422426.30	0830031.01	1A	658		32	158 15	789
ANTENNA ON OL TOWER	422427.51	0830048.11	1A	781		155	244 2	1079
FLOODLIGHT	422444.87	0830027.36	1A	655		29	34 45	1347
ANTENNA ON OL ATCT	422434.31	0830017.50	1A	714		88	91 30	1388
HANGAR	422418.74	0830023.21	1A	641		15	153 4	1746
OL ON HANGAR	422412.28	0830039.00	1A	646		20	192 23	2129
TREE	422430.59	0830007.27	1A	653		27	103 9	2167
TREE	422456.01	0830033.66	1A	695		69	10 26	2317
TREE	422434.33	0830004.33	1A	680		54	93 24	2374
ANTENNA ON OL AIRPORT BCN	422422.90	0830005.81	1A	695		69	120 55	2488
POLE	422428.41	0830002.29	1A	654		28	107 2	2570
TREE	422427.33	0830001.74	1A	672		46	109 13	2633
TREE	422428.61	0825959.60	1A	675		49	105 50	2765
TREE	422408.68	0830053.29	1A	671		45	213 53	2802
OL ON BUILDING	422407.90	0830056.09	1A	662		36	216 47	2973
TREE	422411.30	0830102.66	1A	681		55	228 21	2988
TREE	422408.17	0830112.11	1A	685		59	233 12	3712
TREE	422403.26	0830105.78	1A	683		57	222 40	3767
TREE	422401.36	0830110.25	1A	703		77	224 50	4124
TREE	422511.78	0830118.68	1A	676		50	326 50	5055
TRFE	422528.39	0830105.73	1A	706		80	344 25	6019
TREE	422539.33	0830115.25	1A	704		78	342 26	7317
ANTENNA	422320.54	0825940.55	1A	758		132	156 43	8447
ROD ON OL ANTENNA	422538.16	0830207.27	1B	781		155	320 3	9497
ROD ON OL STACK	422303.18	0830250.16	2A	884	255	258	234 5	13581
ANTENNA ON OL TOWER	422453.55	0830335.19	2A	878	249	252	284 56	13605



TOUCHDOWN ZONE RUNWAY ELEVATION	
7	626
25	626
15	624
33	625

DETROIT CITY AIRPORT
 DETROIT, MICHIGAN
 (NOT TO SCALE)