

OBSTRUCTION DATA SHEET

ODS 528
NORTHEAST PHILADELPHIA AIRPORT
PHILADELPHIA, PENNSYLVANIA

DIGITIZED FROM

OC 528
SURVEYED OCTOBER 1989
10TH EDITION



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THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

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:

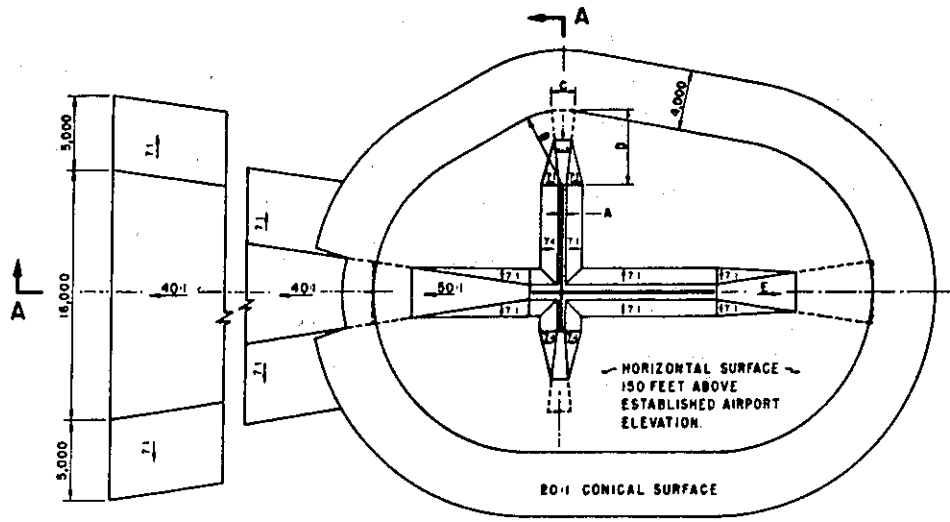
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

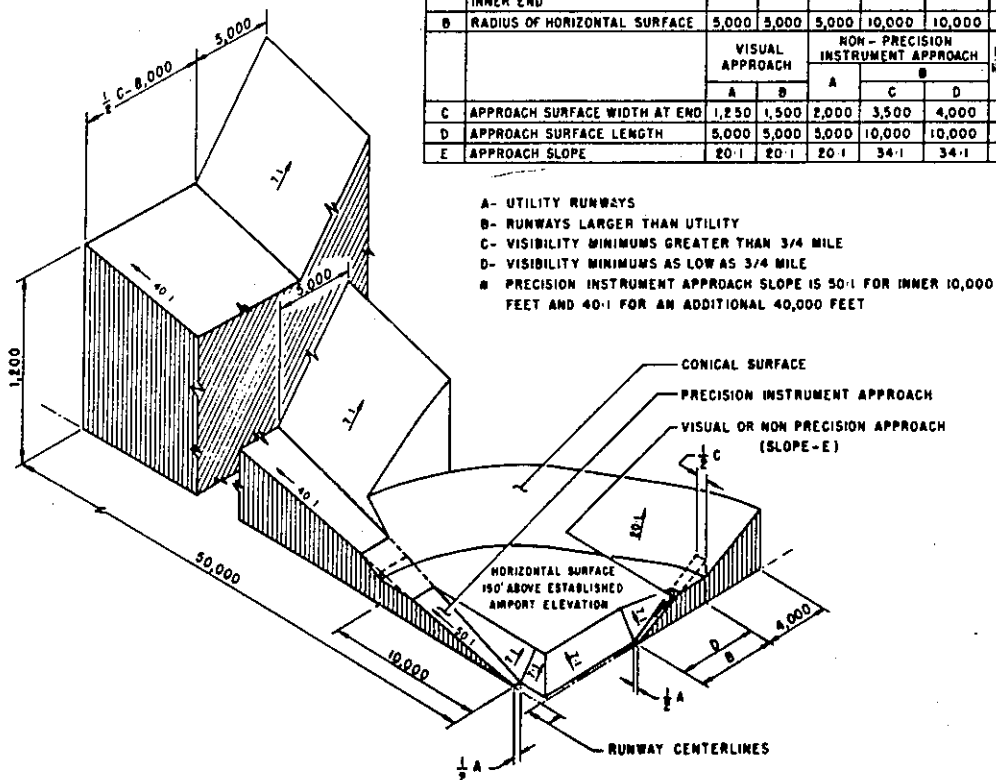
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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



ISOMETRIC VIEW OF SECTION A-A

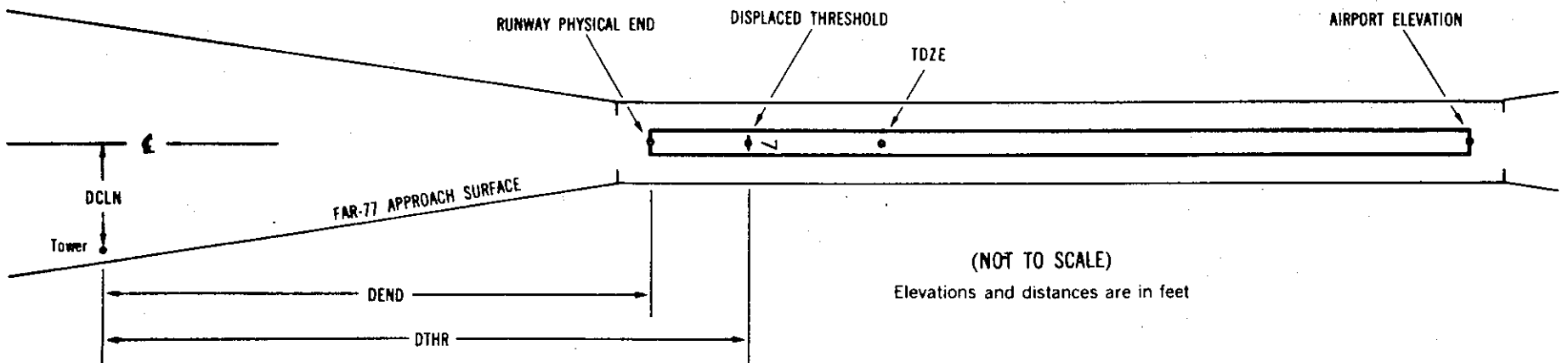
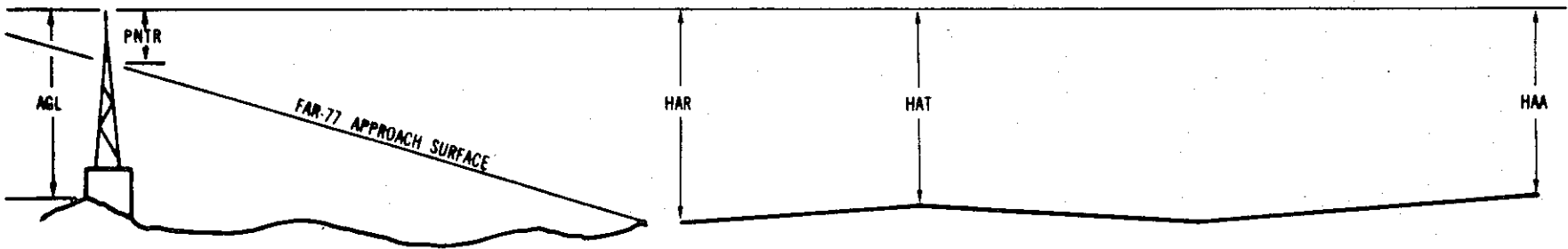
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

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).

OC0528

AIRPORT ELEVATION 121

6 PIR 111/116 400438.624N 0750114.324W 2282419

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	400515.39	0750013.61	1A	135		24	19	14	-6000		350R	20
OL ON WINDSOCK	400515.57	0750014.85	1A	133		22	17	12	-5939		272R	18
TREE	400513.36	0750017.78	1A	128		17	12	7	-5621		289R	13
TREE	400511.60	0750020.50	1A	125		14	9	4	-5344		281R	9
OL WINDSOCK	400442.49	0750104.13	1A	137		26	21	16	-852		233R	22
TREE	400440.70	0750103.21	1A	123		12	7	2	-786		416R	8
BUSH	400445.07	0750109.82	1A	122		11	6	1	-695		256L	8
TREE	400445.18	0750113.49	1A	138		27	22	17	-489		453L	25
TREE	400442.77	0750116.96	1A	135		24	19	14	-126		450L	23
BUSH	400440.96	0750115.75	1A	123		12	7	2	-74		250L	12
BUSH	400439.19	0750117.01	1A	119		8	3	-2	118		182L	8
TREE	400440.28	0750119.95	1A	134		23	18	13	216		416L	23
TREE	400433.86	0750112.75	1A	121		10	5	0	228		442R	9
RAILROAD	400436.64	0750117.19	1A	115		4	-1	-6	300		2R	2
TREE	400435.63	0750116.16	1A	117		6	1	-4	308		132R	4
TREE	400439.12	0750122.37	1A	137		26	21	16	434		453L	21
TREE	400435.23	0750118.72	1A	122		11	6	1	484		30R	5
TREE	400432.49	0750119.47	1A	131		20	15	10	711		199R	10
OL ON LOCALIZER	400432.07	0750123.95	1A	119		8	3	-2	1000		0L	-8
OL ON POLE	400435.20	0750132.40	1A	143		32	27	22	1281		674L	10
TREE	400426.00	0750122.05	1A	158		47	42	37	1297		557R	25
TREE	400434.14	0750131.94	1A	163		52	47	42	1326		569L	29
TREE	400426.83	0750125.57	1A	155		44	39	34	1446		312R	19
TREE	400427.31	0750135.18	1A	174		63	58	53	1972		220L	28
TREE	400423.49	0750132.94	1A	162		51	46	41	2099		184R	13
TANK	400417.16	0750129.82	1A	172		61	56	51	2343		825R	18
OL ON TRANSMISSION TOWER	400426.72	0750144.43	1A	163		52	47	42	2550		653L	5
TREE	400424.05	0750146.29	1A	184		73	68	63	2837		547L	20
TREE	400422.12	0750145.68	1A	197		86	81	76	2932		369L	31
TREE	400412.12	0750142.00	1A	200		89	84	79	3390		577R	25
ANTENNA	400407.24	0750141.36	1A	192		81	76	71	3680		980R	11
TREE	400356.27	0750209.78	1A	241		130	125	120	6070		343R	13

OC0528

AIRPORT ELEVATION 121

24 PIR 114/116 400524.539N 07500 6.973W 0482502

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	400440.28	0750119.95	1A	134		20	18	13	-7215		416R	23
BUSH	400439.19	0750117.01	1A	119		5	3	-2	-7118		182R	8
BUSH	400440.96	0750115.75	1A	123		9	7	2	-6926		250R	12
TREE	400442.77	0750116.96	1A	135		21	19	14	-6874		450R	23
TREE	400445.18	0750113.49	1A	138		24	22	17	-6511		453R	25
BUSH	400445.07	0750109.82	1A	122		8	6	1	-6304		256R	8
TREE	400440.70	0750103.21	1A	123		9	7	2	-6214		416L	8
OL WINDSOCK	400442.49	0750104.13	1A	137		23	21	16	-6147		233L	22
TREE	400511.60	0750020.50	1A	125		11	9	4	-1655		281L	9
TREE	400513.36	0750017.78	1A	128		14	12	7	-1379		289L	13
OL ON WINDSOCK	400515.57	0750014.85	1A	133		19	17	12	-1060		272L	18
OL ON GLIDE SLOPE	400515.39	0750013.61	1A	135		21	19	14	-1000		350L	20
TREE	400537.86	0745958.52	1A	142		28	26	21	1386		573R	4
TREE	400532.91	0745943.78	1A	156		42	40	35	1910		563L	8
TREE	400536.11	0745944.56	1A	159		45	43	38	2080		280L	7
TREE	400545.60	0745941.12	1A	169		55	53	48	2918		261R	1
TREE	400552.58	0745941.89	1A	184		70	68	63	3342		829R	7
TREE	400553.99	0745928.56	1A	200		86	84	79	4211		248R	6
FLAGPOLE	400605.75	0745929.91	1A	210		96	94	89	4922		1208R	2

OC0528

AIRPORT ELEVATION 121

15 C 121/121 400503.885N 0750058.193W 3204120

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	400510.76	0750100.18	1A	144		23	23	23	636		321L	10
BUSH	400508.60	0750103.69	1A	144		23	23	23	640		29R	10
TREE	400521.43	0750111.48	1A	190		69	69	69	2028		325L	15
TREE	400522.97	0750115.44	1A	201		80	80	80	2343		186L	17
TREE	400519.69	0750120.85	1A	202		81	81	81	2353		349R	18
TREE	400526.45	0750116.49	1A	209		88	88	88	2668		346L	15
TREE	400528.54	0750115.68	1A	215		94	94	94	2792		529L	18
TREE	400522.37	0750128.99	1A	215		94	94	94	2964		667R	13
TREE	400525.52	0750124.65	1A	210		89	89	89	2997		204R	7
OL TRANSMISSION TOWER	400544.10	0750153.52	1A	284		163	163	163	5873		748R	-4
OL ON TRANSMISSION TOWER	400546.59	0750150.38	1A	281		160	160	160	5914		400R	-8
OL ON TRANSMISSION TOWER	400553.68	0750140.84	1A	266		145	145	145	5999		628L	-26

33 C 109/109 400425.655N 0750017.449W 1404146

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	400420.80	0750009.72	1A	145		36	36	24	760		154R	20
TREE	400417.23	0750012.01	1A	135		26	26	14	928		213L	5
TREE	400418.69	0750009.31	1A	140		31	31	19	946		43R	9
TREE	400417.03	0750003.34	1A	153		44	44	32	1370		296R	10
TREE	400411.50	0750001.22	1A	160		51	51	39	1908		69R	1
TREE	400402.01	0745941.61	1A	197		88	88	76	3616		641R	-12

OC0528

AIRPORT ELEVATION 121

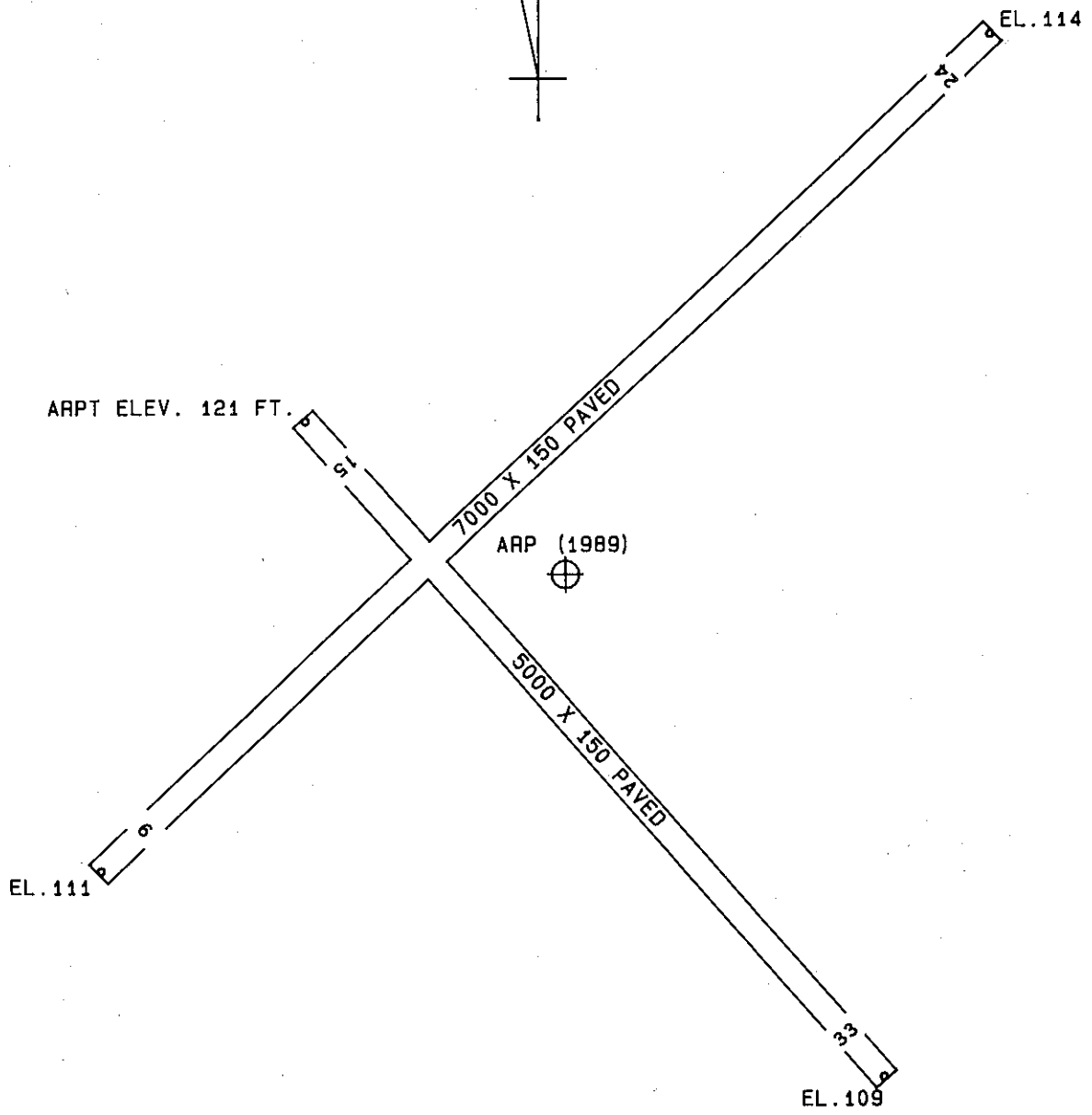
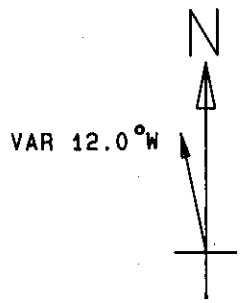
ARP 400454.577N 0750039.472W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
OL VOR	400455.02	0750035.75	1A	138		17	93	11	293
ROD ON OL DIRECTION FINDER	400449.26	0750027.65	1A	129		8	132	22	1065
TREE	400503.17	0750049.51	1A	138		17	330	7	1168
ANTENNA ON OL CONTROL TR	400453.95	0750023.24	1A	197		76	104	54	1263
OL ON WINDSOCK	400502.94	0750052.63	1A	137		16	321	37	1328
TREE	400455.88	0750101.09	1A	141		20	286	29	1686
TREE	400452.74	0750106.46	1A	161		40	276	56	2106
BUSH	400509.70	0750058.96	1A	143		22	327	17	2153
OL ON WINDSOCK	400435.81	0750023.63	1A	125		4	159	2	2264
TREE	400516.41	0750032.94	1A	172		51	24	56	2267
BUSH	400505.61	0750105.43	1A	140		19	310	57	2306
TREE	400438.99	0750103.46	1A	130		9	241	46	2442
ROD ON OL AIRPORT BEACON	400427.94	0750037.40	1A	154		33	188	35	2700
TREE	400514.64	0750010.56	1A	144		23	59	54	3029
TREE	400434.38	0750108.76	1A	138		17	240	6	3060
TREE	400522.31	0750023.51	1A	155		34	35	51	3069
TREE	400443.86	0750119.13	1A	156		35	262	37	3268
TREE	400433.33	0750111.61	1A	129		8	241	18	3296
TREE	400512.34	0750117.55	1A	182		61	313	16	3463
TREE	400528.26	0750019.90	1A	190		69	36	3	3733
TREE	400527.56	0750014.19	1A	129		8	42	29	3873
TREE	400423.68	0750008.57	1A	149		28	154	28	3943
TREE	400527.07	0750111.11	1A	199		78	335	13	4106
TREE	400517.39	0750123.42	1A	207		86	316	3	4123
TREE	400530.41	0750011.63	1A	137		16	42	49	4223
TREE	400422.34	0750004.76	1A	166		45	152	24	4234
TREE	400519.24	0750125.34	1A	215		94	317	0	4352
TREE	400519.25	0750128.76	1A	225		104	315	5	4573
TREE	400410.18	0750010.68	1A	173		52	165	31	5019
TREE	400539.37	0750000.79	1A	179		58	45	33	5439
TREE	400528.71	0745944.67	1A	165		44	62	57	5484
TREE	400532.93	0745937.61	1A	167		46	63	5	6179
ROD ON STACK	400607.33	0750046.53	1B	315		194	7	44	7382

AIRPORT ELEVATION 121

ARP 400454.577N 0750039.472W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
STACK	400530.67	0750205.18	1B	289		168	310 44	7597
TRANSMISSION TOWER	400517.86	0750228.33	1B	253		132	297 34	8783
LADDER ON OL BUILDING	400625.96	0750002.70	1B	322		201	29 10	9678
ANTENNA	400636.61	0750005.82	1B	329		208	26 13	10650
TRANSMISSION TOWER	400652.29	0750023.72	1B	277		156	17 52	11974
ROD ON TANK	400628.23	0750218.76	2C	372		251	332 51	12221
TREE	400658.45	0745956.91	1B	280		159	26 47	12963
ROD ON STACK	400655.16	0745936.52	1B	316		195	33 50	13146
ROD ON STACK	400656.32	0745934.69	1B	318		197	34 13	13308
ANTENNA ON OL RADIO TOWER	400653.39	0745924.59	1B	312		191	37 49	13357



TOUCHDOWN ZONE RUNWAY ELEVATION	
6	116
24	116
15	121
33	109

NORTHEAST PHILADELPHIA AIRPORT
 PHILADELPHIA, PENNSLYVANIA
 (NOT TO SCALE)