

OBSTRUCTION DATA SHEET

**ODS 523
MID - STATE AIRPORT
PHILIPSBURG, PENNSYLVANIA**

DIGITIZED FROM

**OC 523
SURVEYED JULY 1990
6TH 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:

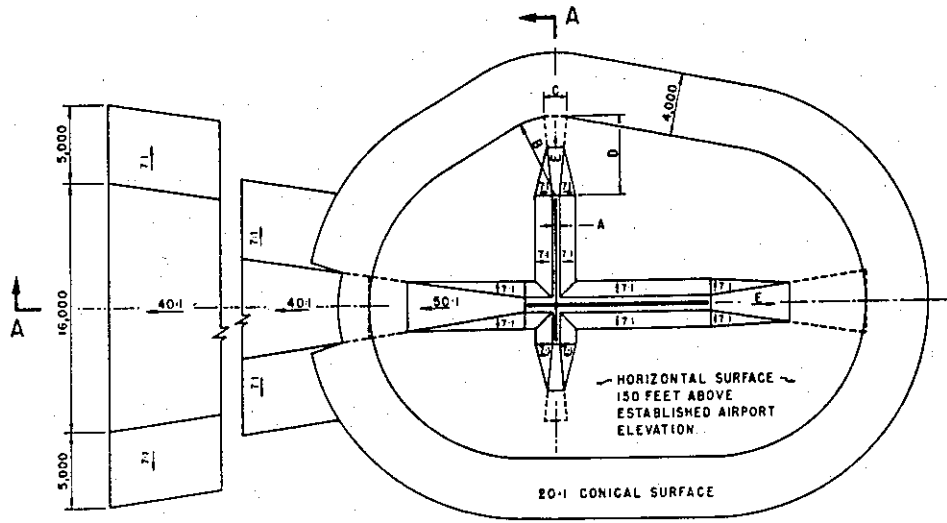
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

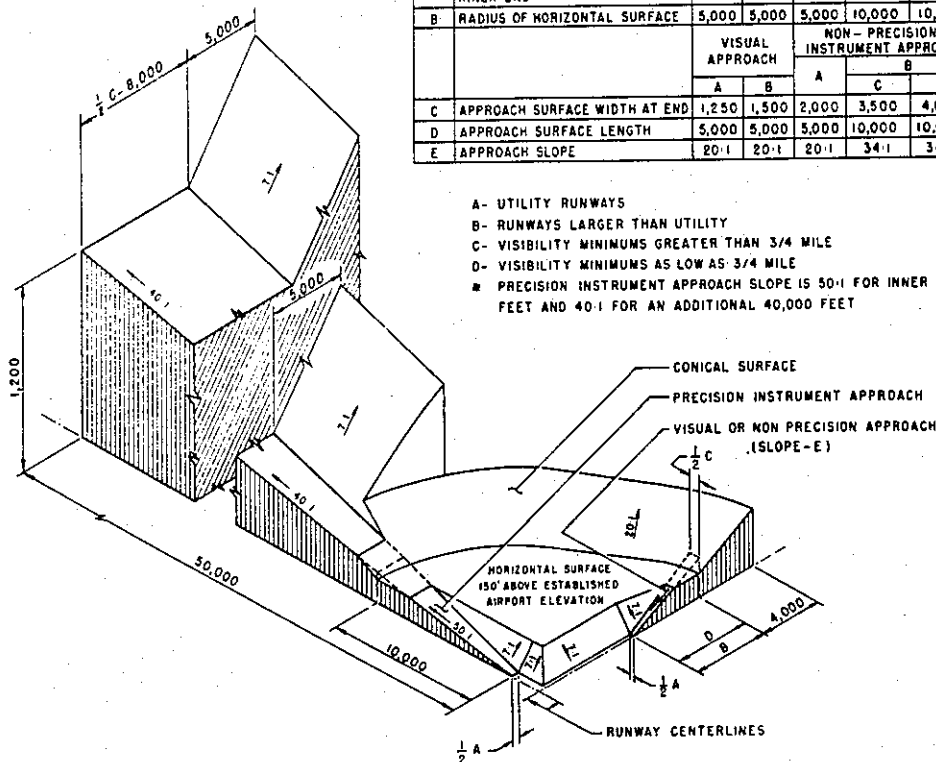
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	
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

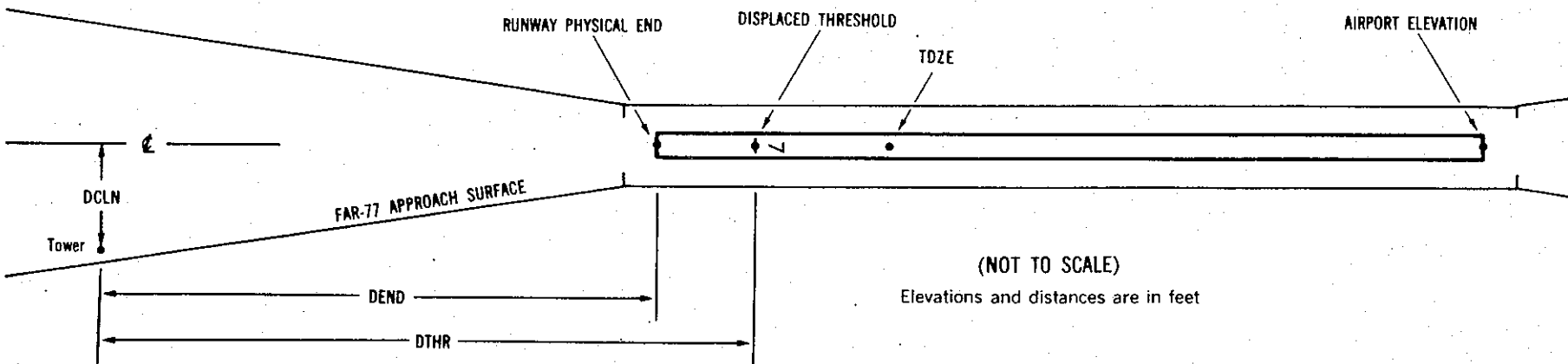
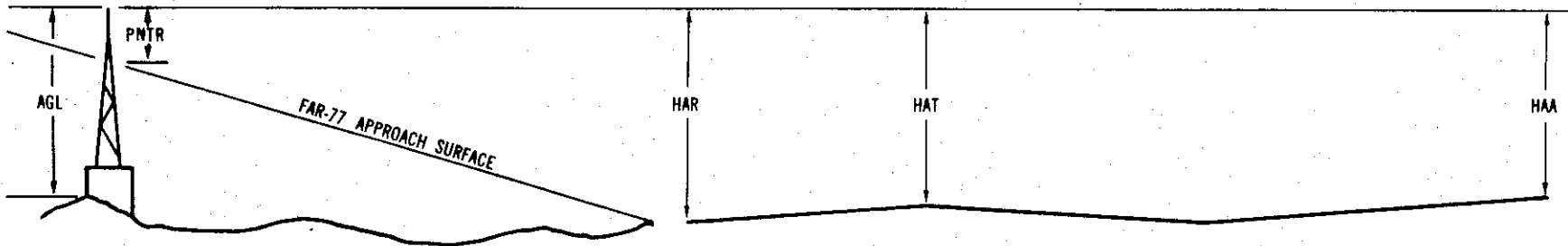
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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
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).

OC0523

AIRPORT ELEVATION 1948

6 SUPLC 1867/1909 405240.031N 0780540.433W 2294131

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	405311.42	0780446.63	1A	1944		77	35	-4	-5207		250R	27
BUSH	405314.44	0780450.88	1A	1920		53	11	-28	-5155		194L	3
TREE	405310.15	0780448.23	1A	1959		92	50	11	-5030		269R	42
TREE	405309.72	0780449.30	1A	1963		96	54	15	-4939		249R	46
TREE	405304.77	0780456.78	1A	1955		88	46	7	-4176		260R	41
TREE	405301.26	0780502.03	1A	1954		87	45	6	-3640		270R	44
TREE	405251.80	0780527.31	1A	1915		48	6	-33	-1539		256L	24
TREE	405247.46	0780523.88	1A	1938		71	29	-10	-1456		249R	48
TREE	405237.99	0780540.97	1A	1876		9	-33	-72	165		131R	9
TREE	405240.18	0780543.54	1A	1882		15	-27	-66	173		166L	15
TREE	405235.38	0780541.75	1A	1900		33	-9	-48	382		294R	28
TREE	405237.58	0780547.50	1A	1890		23	-19	-58	574		162L	12
TREE	405229.29	0780548.95	1A	1940		73	31	-8	1202		405R	44
TREE	405230.93	0780551.63	1A	1912		45	3	-36	1252		146R	14
TREE	405227.69	0780551.50	1A	1930		63	21	-18	1456		403R	26
TREE	405213.85	0780625.73	1A	1998		131	89	50	4367		231L	8
TREE	405210.69	0780627.92	1A	2011		144	102	63	4703		96L	12
TREE	405213.34	0780638.57	1B	2052		185	143	104	5153		830L	39
TREE	405203.06	0780629.01	1B	2043		176	134	95	5266		439R	27
TREE	405159.15	0780626.61	1B	2074		207	165	126	5382		859R	55
TREE	405209.60	0780639.72	1B	2053		186	144	105	5465		599L	31
TREE	405203.83	0780639.35	1B	2066		199	157	118	5821		135L	34
TREE	405159.63	0780635.19	1B	2079		212	170	131	5853		396R	46
TREE	405203.30	0780641.88	1B	2068		201	159	120	6004		220L	30
TREE	405138.90	0780723.40	1B	2122		255	213	174	10035		401L	-34

OC0523

AIRPORT ELEVATION 1948

24 C 1917/1917 405312.022N 0780450.740W 0494203

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	405240.18	0780543.54	1A	1882		-35	-35	-66	-5178		166R	15
TREE	405237.99	0780540.97	1A	1876		-41	-41	-72	-5170		131L	9
TREE	405247.46	0780523.88	1A	1938		21	21	-10	-3549		249L	48
TREE	405251.80	0780527.31	1A	1915		-2	-2	-33	-3466		256R	24
TREE	405301.26	0780502.03	1A	1954		37	37	6	-1366		270L	44
TREE	405304.77	0780456.78	1A	1955		38	38	7	-829		260L	41
TREE	405309.72	0780449.30	1A	1963		46	46	15	-66		249L	46
TRFE	405310.15	0780448.23	1A	1959		42	42	11	24		269L	42
BUSH	405314.44	0780450.88	1A	1920		3	3	-28	150		194R	3
TREE	405311.42	0780446.63	1A	1944		27	27	-4	202		250L	27
TREE	405312.14	0780445.36	1A	1951		34	34	3	323		259L	30
TREE	405315.30	0780448.66	1A	1940		23	23	-8	336		149R	19
TREE	405313.46	0780444.84	1A	1947		30	30	-1	440		182L	23
TREE	405315.47	0780445.68	1A	1938		21	21	-10	522		15R	12
TREE	405317.79	0780446.86	1A	1944		27	27	-4	605		252R	15

OC0523

AIRPORT ELEVATION 1948

16 PIR 1948/1948 405335.995N 0780530.334W 3360353

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	405240.76	0780504.67	1A	2000		52	52	52	-5909		466R	78
TREE	405245.17	0780456.29	1A	1964		16	16	16	-5762		304L	42
TREE	405242.37	0780506.00	1A	2004		56	56	56	-5718		493R	82
TREE	405245.84	0780508.08	1A	2003		55	55	55	-5333		497R	85
TREE	405250.18	0780459.40	1A	1953		5	5	5	-5202		291L	37
TREE	405250.84	0780510.31	1A	2003		55	55	55	-4801		448R	90
OL ON WINDSOCK	405308.93	0780508.76	1A	1940		-8	-8	-8	-3176		403L	24
TREE	405306.38	0780516.62	1A	1945		-3	-3	-3	-3166		253R	29
TREE	405318.19	0780523.42	1A	1956		8	8	8	-1862		245R	26
ROAD (N)	405320.46	0780517.20	1A	1941		-7	-7	-7	-1846		284L	10
OL ON GLIDE SLOPE	405323.90	0780527.75	1A	1973		25	25	25	-1199		315R	36
ROAD (N)	405338.46	0780525.27	1A	1954		6	6	6	70		456L	6
GROUND	405335.78	0780537.28	1A	1953		5	5	5	197		496R	5
BUSH	405338.45	0780536.03	1A	1958		10	10	10	405		299R	6
TREE	405338.38	0780539.12	1A	1973		25	25	25	495		518R	19
POLE	405343.37	0780526.80	1A	1960		12	12	12	572		551L	5
TREE	405343.22	0780528.35	1A	1956		8	8	8	606		436L	-1
TREE	405348.21	0780541.42	1A	1983		35	35	35	1475		277R	9
TREE	405352.67	0780545.35	1A	1997		49	49	49	2010		370R	13
TREE	405352.69	0780549.32	1A	2001		53	53	53	2136		647R	14
TREE	405359.41	0780555.16	1A	2022		74	74	74	2940		781R	19
TREE	405358.88	0780556.87	1A	2020		72	72	72	2943		923R	17
TREE	405403.57	0780551.54	1A	2009		61	61	61	3211		356R	1
TREE	405457.73	0780611.31	1A	2101		153	153	153	8837		480L	-20
TREE	405500.35	0780604.85	1A	2119		171	171	171	8878		1042L	-3

OC0523

AIRPORT ELEVATION 1948

34 C 1922/1922 405244.419N 07805 0.174W 1560413

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	405335.78	0780537.28	1A	1953		31	31	5	-5908		496L	5
ROAD (N)	405338.46	0780525.27	1A	1954		32	32	6	-5781		456R	6
OL ON GLIDE SLOPE	405323.90	0780527.75	1A	1973		51	51	25	-4512		315L	36
ROAD (N)	405320.46	0780517.20	1A	1941		19	19	-7	-3865		284R	10
TREE	405318.19	0780523.42	1A	1956		34	34	8	-3848		245L	26
TREE	405306.38	0780516.62	1A	1945		23	23	-3	-2544		253L	29
OL ON WINDSOCK	405308.93	0780508.76	1A	1940		18	18	-8	-2535		403R	24
TREE	405250.84	0780510.31	1A	2003		81	81	55	-910		448L	90
TREE	405250.18	0780459.40	1A	1953		31	31	5	-508		291R	37
TREE	405245.84	0780508.08	1A	2003		81	81	55	-378		497L	85
TREE	405242.37	0780506.00	1A	2004		82	82	56	8		493L	82
TREE	405245.17	0780456.29	1A	1964		42	42	16	51		304R	42
TREE	405240.76	0780504.67	1A	2000		78	78	52	198		466L	78
TREE	405242.91	0780455.48	1A	1952		30	30	4	286		268R	27
TREE	405241.49	0780454.86	1A	1946		24	24	-2	436		253R	17
TREE	405237.63	0780502.06	1A	1998		76	76	50	570		411L	65
TREE	405237.82	0780500.41	1A	1985		63	63	37	603		287L	51
TREE	405235.09	0780458.66	1A	1985		63	63	37	911		277L	42
TREE	405234.01	0780500.01	1A	2002		80	80	54	968		415L	57
TREE	405237.68	0780448.61	1A	1983		61	61	35	983		535R	38
TREE	405231.99	0780459.14	1A	2004		82	82	56	1182		438L	53
TREE	405235.18	0780449.63	1A	1995		73	73	47	1183		361R	44
TREE	405231.63	0780452.45	1A	1968		46	46	20	1424		17R	10
OL ON POLE	405146.43	0780424.78	1B	2097		175	175	149	6468		105R	-9
TREE	405144.40	0780411.12	1B	2165		243	243	217	7081		982R	41
TREE	405137.95	0780418.54	1B	2175		253	253	227	7447		196R	40
TREE	405117.11	0780407.71	1B	2280		358	358	332	9712		101R	78
OL ON POLE	405115.90	0780408.50	1B	2263		341	341	315	9799		3L	59

OC0523

AIRPORT ELEVATION 1948

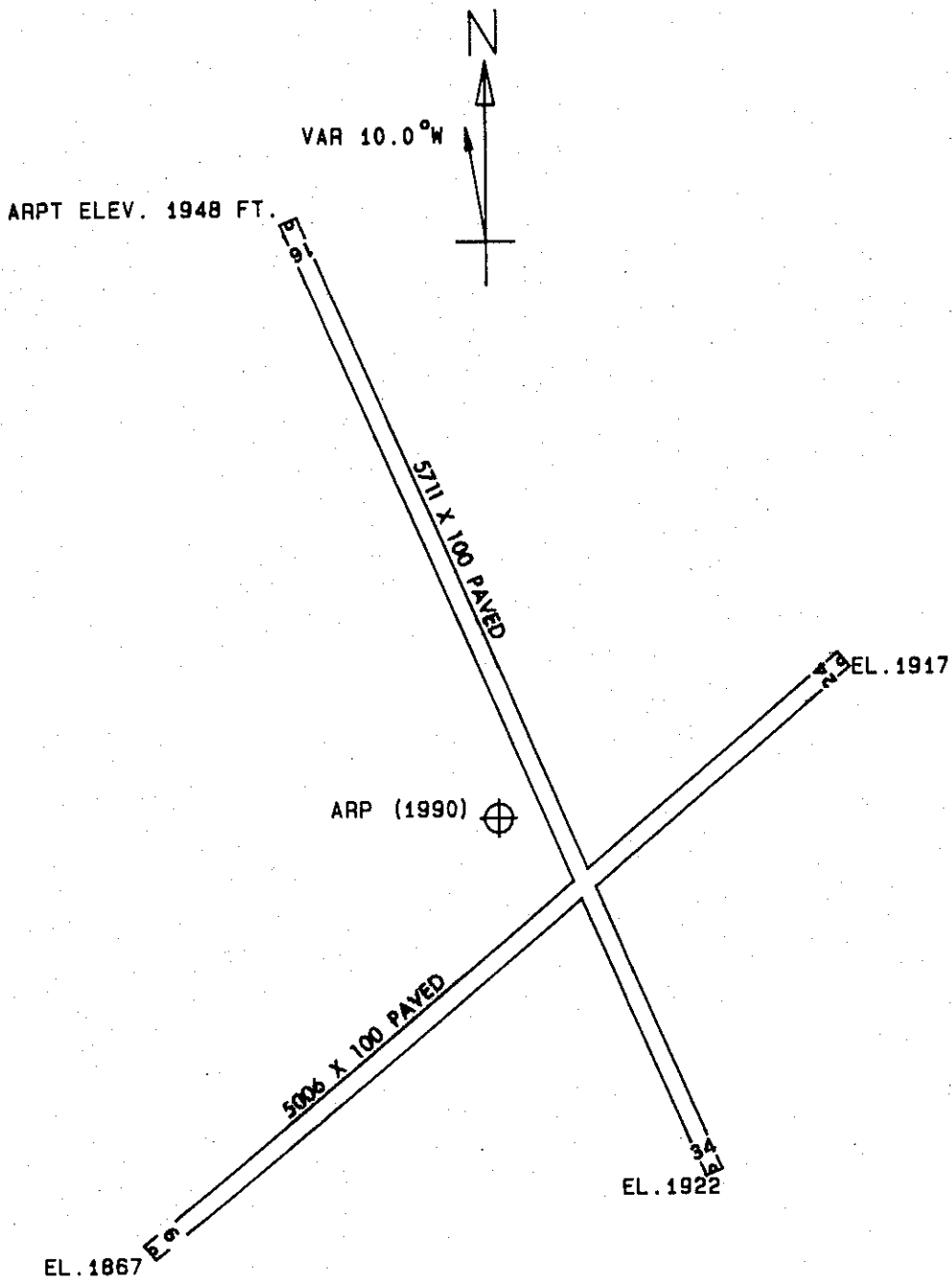
ARP 405303.584N 0780515.409W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	405300.90	0780517.92	1A	1959		11	225 20	333
TREE	405306.98	0780521.90	1A	1977		29	314 37	606
ROD ON OL TOWER	405311.98	0780507.60	1A	1978		30	45 12	1040
OL ON AIRPORT BEACON	405311.44	0780506.12	1A	1968		20	51 55	1068
TREE	405256.77	0780526.15	1A	1965		17	240 7	1075
TREE	405252.04	0780514.41	1A	1986		38	186 15	1170
TREE	405312.53	0780525.55	1A	1993		45	329 19	1194
TREE	405300.92	0780458.42	1A	1968		20	111 41	1333
OL POLE	405319.07	0780512.85	1A	1938		-10	17 9	1580
TREE	405253.07	0780531.01	1A	1950		2	238 24	1603
TREE	405304.71	0780452.48	1A	1973		25	96 19	1765
ANTENNA ON BUILDING	405314.11	0780456.36	1A	1951		3	63 56	1810
TREE	405250.98	0780532.73	1A	1943		-5	236 13	1843
TREE	405323.08	0780530.57	1A	1992		44	339 27	2292
TREE	405323.90	0780532.34	1A	2016		68	337 41	2432
TREE	405241.94	0780531.49	1A	1930		-18	219 26	2515
TREE	405317.88	0780448.13	1A	1950		2	65 22	2547
TREE	405243.16	0780541.11	1A	1899		-49	233 41	2858
TREE	405243.16	0780542.59	1A	1907		-41	235 18	2938
TREE	405328.32	0780536.38	1A	2023		75	337 15	2977
POLE	405333.16	0780518.10	1A	1961		13	6 3	3001
TREE	405233.08	0780510.05	1A	2019		71	182 25	3115
TREE	405236.16	0780537.53	1A	1918		-30	221 29	3255
GROUND	405333.60	0780537.14	1A	1961		13	341 13	3466
TREE	405334.51	0780538.31	1A	2006		58	340 40	3590
TREE	405338.12	0780540.69	1A	1993		45	340 57	3998
TREE	405342.86	0780522.31	1A	2001		53	2 24	4010
TREE	405230.27	0780546.12	1A	1952		4	224 59	4115
TREE	405346.26	0780527.06	1A	1972		24	358 18	4411
TREE	405341.14	0780548.14	1A	2046		98	336 31	4557
TREE	405344.72	0780545.29	1A	1985		37	341 8	4754
TREE	405221.84	0780329.93	1B	2169		221	127 32	9138
TREE	405229.78	0780324.67	1B	2193		245	121 54	9168

AIRPORT ELEVATION 1948

ARP 405303.584N 0780515.409W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	405310.65	0780739.70	1B	2126		178	283 42	11106
TREE	405151.34	0780323.42	1B	2163		215	140 21	11290
TREE	405112.41	0780533.17	1B	2227		279	196 55	11334
TREE	405452.83	0780431.41	1B	2130		182	27 0	11561
TREE	405454.12	0780426.63	1B	2116		168	28 30	11798
TREE	405458.46	0780552.87	1B	2117		169	356 6	11977
TREE	405149.86	0780311.85	1B	2188		240	138 10	12074
TREE	405135.78	0780328.11	1B	2260		312	147 8	12121
TREE	405124.08	0780346.66	1B	2274		326	155 54	12162
TREE	405128.66	0780338.33	1B	2309		361	152 10	12162
TREE	405500.72	0780553.53	1B	2121		173	356 8	12211
TREE	405501.47	0780421.11	2C	2108		160	29 16	12638
TREE	405241.57	0780758.47	2C	2145		197	269 56	12722
TREE	405101.49	0780434.31	2C	2294		346	175 40	12753
TREE	405509.49	0780448.46	1B	2100		152	19 13	12909
TREE	405511.08	0780456.88	1B	2110		162	16 18	12981
TREE	405244.53	0780803.72	2C	2165		217	271 32	13072
TREE	405203.88	0780244.17	2C	2248		300	127 28	13095
TREE	405053.73	0780452.26	2C	2331		383	182 17	13262
TREE	405138.00	0780731.91	2C	2130		182	240 27	13601
TREE	405049.33	0780502.78	2C	2330		382	185 55	13622
TREE	405520.59	0780530.26	2C	2147		199	5 18	13913
TREE	405058.14	0780640.43	2C	2170		222	217 14	14277



TOUCHDOWN ZONE RUNWAY ELEVATION	
6	1909
24	1917
16	1948
34	1922

MID - STATE AIRPORT
 PHILIPSBURG, PENNSYLVANIA
 (NOT TO SCALE)