

OBSTRUCTION DATA SHEET

**ODS 187
CAPITAL CITY AIRPORT
HARRISBURG, PENNSYLVANIA**

DIGITIZED FROM

**OC 187
SURVEYED OCTOBER 1989
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:

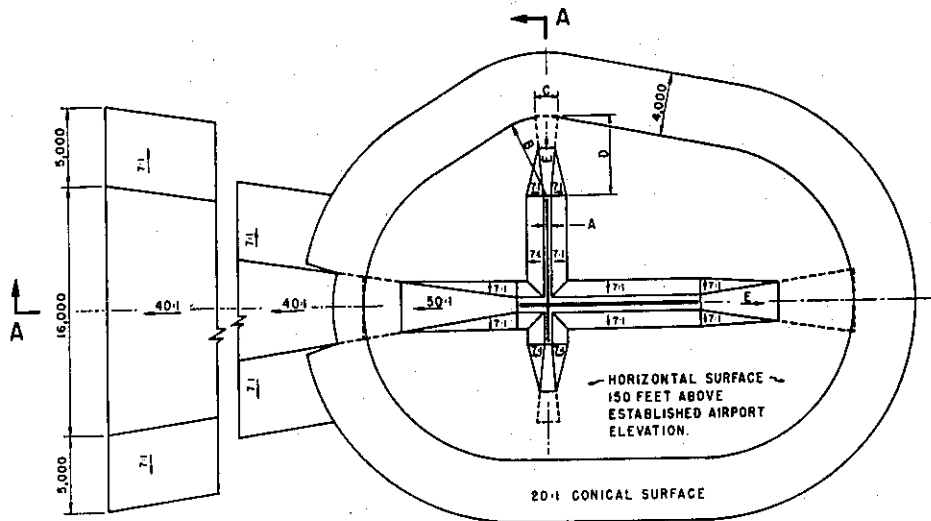
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

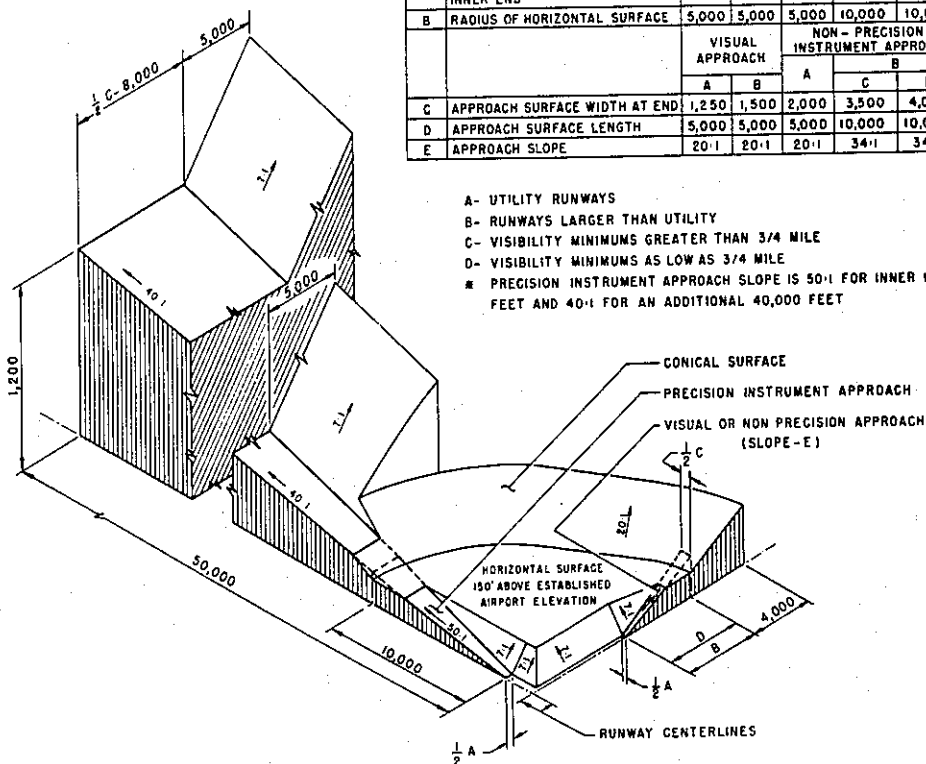
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
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

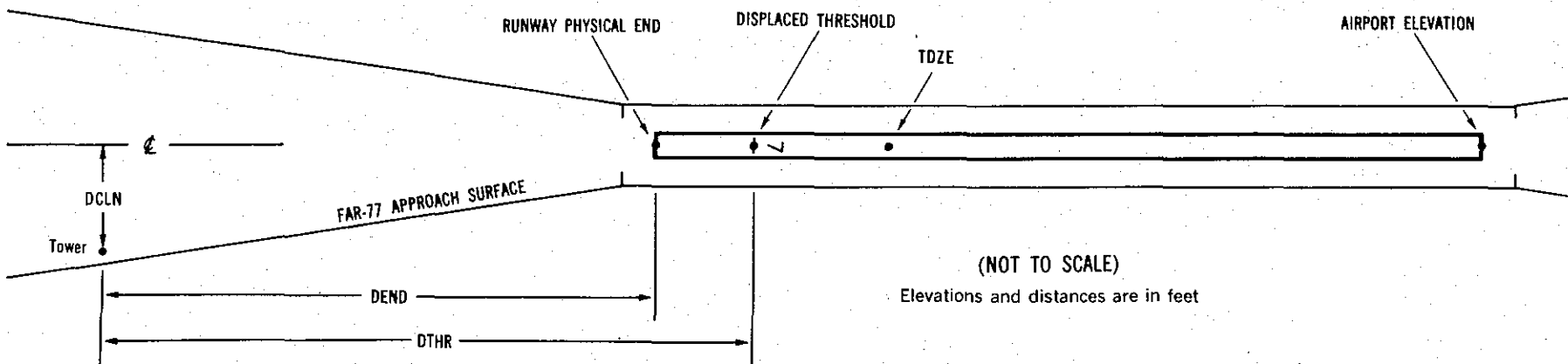
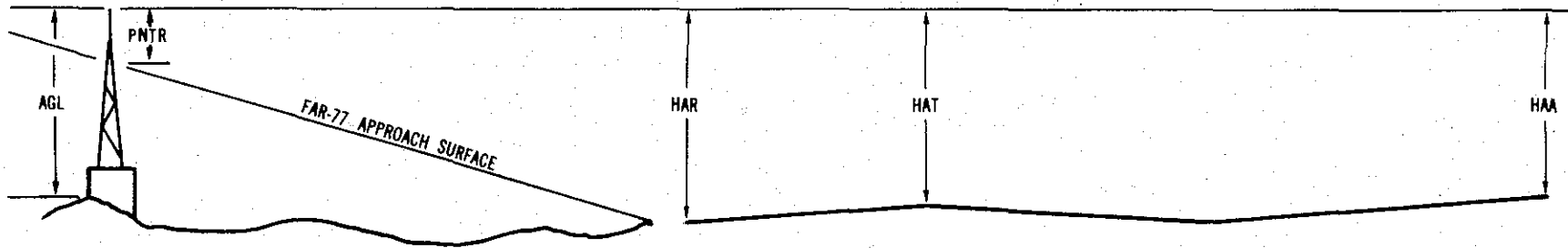
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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	XXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXX.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).

OC0187

AIRPORT ELEVATION 347

8 PIR 336/343 401255.782N 0765131.828W 2511131

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	401316.05	0765029.96	1A	354		18	11	7	-5205		395L	7
BUSH	401309.21	0765029.81	1A	356		20	13	9	-4992		264R	9
BUSH	401306.83	0765038.83	1A	358		22	15	11	-4253		267R	13
BUSH	401305.54	0765043.68	1A	358		22	15	11	-3854		270R	13
OL WINDSOCK	401305.88	0765111.12	1A	361		25	18	14	-1850		450L	21
ROD ON OL TRANSMISSOMETER	401256.64	0765115.77	1A	355		19	12	8	-1207		319R	17
TREE	401253.04	0765124.86	1A	394		58	51	47	-422		437R	57
GROUND	401254.71	0765130.63	1A	338		2	-5	-9	-53		133R	2
BUSH	401254.12	0765131.49	1A	343		7	0	-4	30		167R	7
TREE	401257.96	0765147.54	1A	386		50	43	39	1083		601L	32
POLE	401249.22	0765143.83	1A	349		13	6	2	1095		328R	-5
TREE	401248.29	0765146.45	1A	364		28	21	17	1318		352R	6
TREE	401246.15	0765147.10	1A	393		57	50	46	1436		541R	32
TREE	401248.66	0765149.94	1A	369		33	26	22	1562		229R	6
TREE	401252.88	0765156.95	1A	393		57	50	46	1939		351L	22
TREE	401253.15	0765200.95	1A	400		64	57	53	2224		477L	24
TREE	401247.13	0765159.81	1A	402		66	59	55	2337		128R	23
TREE	401242.25	0765203.46	1A	406		70	63	59	2764		505R	19
TREE	401252.04	0765214.03	1A	445		109	102	98	3221		697L	49
TREE	401252.22	0765217.83	1A	447		111	104	100	3494		809L	45
TREE	401241.25	0765223.47	1A	478		142	135	131	4267		100R	61
TREE	401239.44	0765225.75	1A	503		167	160	156	4493		216R	81
TREE	401214.89	0765303.53	1A	669		333	326	322	8069		1622R	176
TREE	401220.13	0765308.39	1A	621		285	278	274	8255		998R	124
TREE	401213.40	0765308.06	1A	690		354	347	343	8451		1651R	189

OC0187

AIRPORT ELEVATION 347

26 PIR 347/347 401311.709N 0765030.808W 0711211

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	401254.12	0765131.49	1A	343		-4	-4	-4	-5030		167L	7
GROUND	401254.71	0765130.63	1A	338		-9	-9	-9	-4948		133L	2
TREE	401253.04	0765124.86	1A	394		47	47	47	-4578		437L	57
ROD ON OL TRANSMISSOMETER	401256.64	0765115.77	1A	355		8	8	8	-3793		319L	17
OL WINDSOCK	401305.88	0765111.12	1A	361		14	14	14	-3150		450R	21
BUSH	401305.54	0765043.68	1A	358		11	11	11	-1146		270L	13
BUSH	401306.83	0765038.83	1A	358		11	11	11	-748		267L	13
BUSH	401309.21	0765029.81	1A	356		9	9	9	-8		264L	9
ROAD (N)	401316.05	0765029.96	1A	354		7	7	7	204		395R	7
TREE	401307.93	0765026.10	1A	360		13	13	13	222		479L	13
TREE	401310.14	0765026.66	1A	355		8	8	8	254		254L	7
TREE	401316.89	0765028.20	1A	361		14	14	14	360		431R	11
OL POLE	401315.90	0765026.52	1A	359		12	12	12	452		294R	7
ANTENNA ON OL BUILDING	401310.98	0765023.13	1A	362		15	15	15	540		262L	8
TREE	401314.89	0765023.72	1A	362		15	15	15	624		127R	7
TREE	401308.94	0765020.30	1A	377		30	30	30	681		528L	20
OL POLE	401311.84	0765020.27	1A	368		21	21	21	778		250L	9
TREE	401312.90	0765020.69	1A	366		19	19	19	782		139L	7
POLE	401310.23	0765015.71	1A	374		27	27	27	1060		519L	10
TREE	401335.05	0764922.74	1A	466		119	119	119	5760		535R	8
TREE	401338.92	0764919.77	1A	521		174	174	174	6104		832R	56
POLE	401330.12	0764914.74	1A	516		169	169	169	6187		137L	49
POLE	401333.68	0764913.13	1A	526		179	179	179	6420		164R	55
TREE	401337.55	0764914.41	1A	534		187	187	187	6452		566R	62
TREE	401344.72	0764914.63	1A	530		183	183	183	6671		1259R	54
TREE	401339.34	0764906.56	1A	532		185	185	185	7088		542R	47
TREE	401344.32	0764901.02	1A	540		193	193	193	7656		881R	44
TREE	401346.86	0764854.05	1A	594		247	247	247	8251		950R	86
TREE	401349.37	0764853.76	1A	588		241	241	241	8354		1184R	78
POLE	401347.36	0764826.59	1A	600		253	253	253	10284		312R	51
TRANSMISSION TOWER	401350.98	0764824.42	1A	606		259	259	259	10561		605R	50
TREE	401344.47	0764819.02	1A	630		283	283	283	10746		153L	69

OC0187

AIRPORT ELEVATION 347

12 C 334/342 401307.029N 0765135.450W 2963022

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	401251.79	0765048.35	1A	347		13	5	0	-3958		251L	3
GROUND	401247.25	0765051.49	1A	349		15	7	2	-3946		269R	5
ROD ON OL TRANSMISSOMETER	401256.64	0765115.77	1A	355		21	13	8	-1835		259R	16
OL MONITOR POLE	401305.81	0765125.03	1A	356		22	14	9	-779		250L	20
OL POLE	401308.98	0765137.10	1A	337		3	-5	-10	202		119L	3
TREE	401306.01	0765139.23	1A	374		40	32	27	217		223R	40
LIGHT STANDARD	401308.03	0765138.91	1A	342		8	0	-5	286		29R	5
POLE	401309.51	0765139.81	1A	345		11	3	-2	415		74L	5
TREE	401310.84	0765141.74	1A	355		21	13	8	608		127L	9
TREE	401313.40	0765143.81	1A	372		38	30	25	868		287L	18
TREE	401308.16	0765148.88	1A	379		45	37	32	983		362R	22
TREE	401316.55	0765148.87	1A	397		63	55	50	1362		398L	29
TREE	401310.87	0765156.49	1A	423		89	81	76	1634		381R	47
TREE	401313.53	0765155.41	1A	415		81	73	68	1680		103R	37
TREE	401321.30	0765223.91	1A	484		150	142	137	4008		385R	38
ROD ON ASR	401324.04	0765240.36	1A	555		221	213	208	5275		706R	72
TREE	401327.77	0765241.90	1A	580		246	238	233	5550		422R	89

OC0187

AIRPORT ELEVATION 347

30 C 344/344 401249.721N 0765050.189W 1163051

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	401306.01	0765139.23	1A	374		30	30	27	-4141		223L	40
OL POLE	401308.98	0765137.10	1A	337		-7	-7	-10	-4126		119R	3
OL MONITOR POLE	401305.81	0765125.03	1A	356		12	12	9	-3145		250R	20
ROD ON OL TRANSMISSOMETER	401256.64	0765115.77	1A	355		11	11	8	-2089		259L	16
GROUND	401247.25	0765051.49	1A	349		5	5	2	22		269L	5
SIGN	401251.79	0765048.35	1A	347		3	3	0	34		251R	3
GROUND	401246.20	0765048.51	1A	351		7	7	4	276		261L	5
BUSH	401250.66	0765044.81	1A	362		18	18	15	331		271R	14
GROUND	401248.12	0765045.46	1A	351		7	7	4	401		19R	1
TREE	401244.09	0765041.61	1A	392		48	48	45	850		213L	29
OL ON BUILDING	401245.71	0765040.21	1A	388		44	44	41	874		18L	24
TREE	401248.63	0765037.62	1A	396		52	52	49	922		337R	31
TREE	401248.16	0765034.55	1A	418		74	74	71	1156		400R	46
TREE	401245.52	0765034.95	1A	400		56	56	53	1248		148R	25
TREE	401247.09	0765030.45	1A	420		76	76	73	1489		446R	38
TREE	401243.65	0765028.75	1A	435		91	91	88	1763		193R	45
OL CHIMNEY	401245.98	0765027.07	1A	429		85	85	82	1774		462R	39
CHURCH SPIRE	401243.53	0765017.91	1A	434		90	90	87	2520		557R	22

OC0187

AIRPORT ELEVATION 347

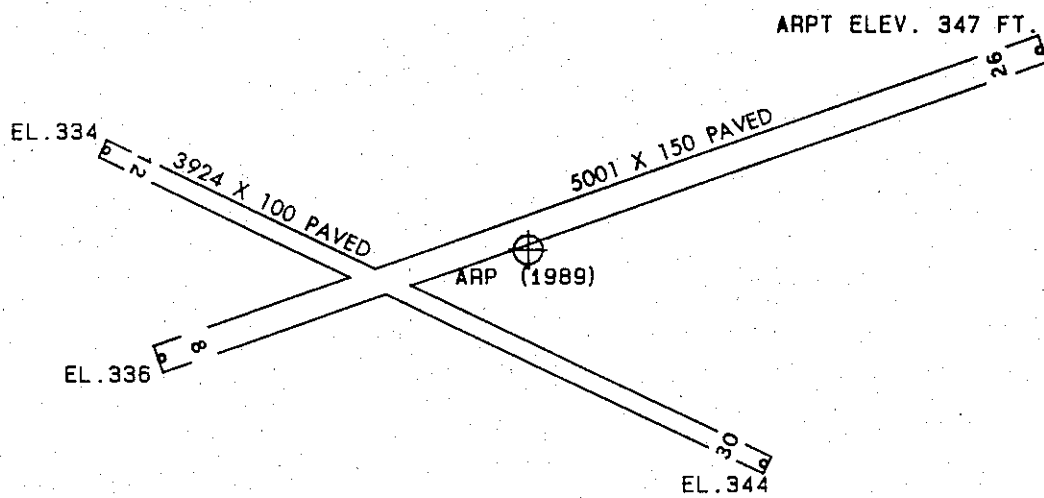
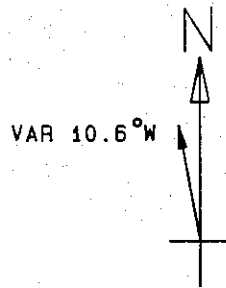
ARP 401301.385N 0765106.375W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
OL ANEMOMETER	401258.07	0765057.58	1A	363		16	126	48	760
OL GLIDE SLOPE	401305.27	0765121.45	1A	366		19	299	12	1234
CONTROL TOWER FLOOR ELEV	401313.40	0765113.82	1A	379		32	345	12	1346
ROD ON OL AIRPORT BEACON	401313.56	0765119.87	1A	399		52	330	15	1617
RAILROAD	401246.85	0765051.99	1A	373		26	153	24	1846
TREE	401251.25	0765126.97	1A	422		75	247	54	1899
TREE	401251.11	0765041.56	1A	395		48	128	58	2188
OL ON BUILDING	401243.20	0765047.97	1A	392		45	152	47	2330
POLE	401250.52	0765038.25	1A	405		58	127	21	2444
TREE	401259.65	0765140.70	1A	374		27	276	50	2669
TREE	401300.06	0765141.79	1A	379		32	277	49	2751
TREE	401303.59	0765142.02	1A	404		57	285	14	2774
TREE	401305.92	0765144.91	1A	395		48	289	20	3024
FLAGPOLE	401249.97	0765029.51	1A	452		105	122	35	3084
TREE	401318.22	0765033.21	1A	401		54	67	5	3086
TRANSMISSION TOWER	401317.94	0765030.57	1A	361		14	69	30	3244
TREE	401317.60	0765030.06	1A	376		29	70	23	3260
TREE	401307.78	0765148.81	1A	389		42	291	43	3355
TREE	401306.88	0765022.24	1A	384		37	91	22	3469
TREE	401257.61	0765153.73	1A	386		39	274	40	3694
OL TRANSMISSION TOWER	401334.01	0765137.21	1B	469		122	334	41	4077
TREE	401305.19	0765212.32	1A	556		209	284	54	5130
OL ON TRANSMISSION TOWER	401354.41	0765120.62	1A	626	326	279	358	58	5478
TREE	401309.54	0765219.04	1B	541		194	288	56	5697
TREE	401207.14	0765129.13	1B	675		328	208	26	5766
TREE	401219.63	0765158.70	1B	628		281	234	27	5860
TREE	401315.04	0765221.63	1A	525		178	293	55	5999
TREE	401202.40	0765118.96	1B	751		404	199	54	6048
STACK	401354.18	0765029.71	1B	478		131	38	38	6053
OL POLE	401211.34	0765150.25	1B	694		347	224	31	6102
TREE	401220.21	0765214.52	1B	582		235	242	22	6732
OL ON GAS TANK	401413.18	0765112.55	1A	622	307	275	6	50	7281
TREE	401149.11	0765101.23	1B	824		477	187	29	7324

AIRPORT ELEVATION 347

ARP 401301.385N 0765106.375W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	401220.62	0765236.28	1B	522		175	250 1	8104
TREE	401349.31	0764942.33	1B	553		206	63 57	8125
TREE	401213.96	0765231.04	1B	597		250	244 27	8135
TREE	401402.86	0764958.31	1B	544		197	50 55	8159
TREE	401414.04	0765009.73	1B	524		177	41 28	8565
TREE	401150.72	0765212.77	1B	757		410	226 22	8813
TREE	401129.92	0765113.91	1B	884		537	194 13	9274
CHURCH SPIRE	401350.35	0764918.04	1B	551		204	70 4	9755
TREE	401213.56	0765255.87	1B	653		306	250 57	9777
STACK	401439.21	0765116.13	1B	506		159	6 14	9928
TREE	401125.48	0765136.82	1B	1067		720	204 17	9988
OL ANTENNA	401130.93	0765201.84	1B	1198		851	215 47	10115
ANTENNA ON OL RTR TOWER	401127.22	0765151.98	1B	1101		754	210 59	10164
ANTENNA	401130.28	0765205.66	1B	1190		843	217 7	10303
TREE	401441.86	0765018.21	1B	585		238	30 46	10832
TREE	401124.57	0765003.81	1B	890		543	164 14	10934
TREE	401138.74	0765241.04	1B	884		537	231 54	11130
TREE	401113.98	0765033.01	1B	776		429	177 12	11172
TRANSMISSION TOWER	401434.54	0764947.84	1B	631		284	43 28	11224
TRANSMISSION TOWER	401440.30	0764958.26	1B	615		268	38 25	11318
TREE	401206.71	0765318.16	1B	653		306	252 11	11626
TRANSMISSION TOWER	401437.41	0764925.20	1B	648		301	49 31	12490
TREE	401105.71	0765202.99	2C	887		540	211 11	12502
TREE	401454.85	0764952.41	2C	620		273	37 8	12835
TREE	401114.12	0765236.67	2C	989		642	223 27	12919
OL ON TOWER	401101.01	0765219.58	2C	1131		784	215 36	13441
TREE	401110.13	0764920.10	2C	939		592	154 22	13955
TREE	401431.93	0764835.74	2C	625		278	62 29	14848
ROD ON OL STACK	401413.54	0765406.77	2C	604		257	308 10	15783



TOUCHDOWN ZONE RUNWAY ELEVATION	
8	343
26	347
12	342
30	344

CAPITAL CITY AIRPORT
 HARRISBURG, PENNSYLVANIA
 (NOT TO SCALE)