

OBSTRUCTION DATA SHEET

**ODS 5148
WASHINGTON COUNTY AIRPORT
WASHINGTON, PENNSYLVANIA**

DIGITIZED FROM

**OC 5148
SURVEYED AUGUST 1988
4TH 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:

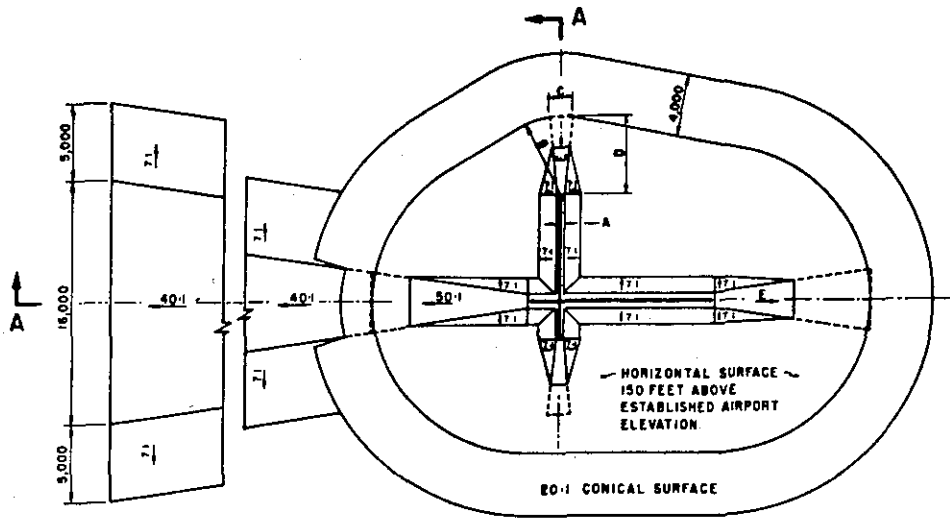
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

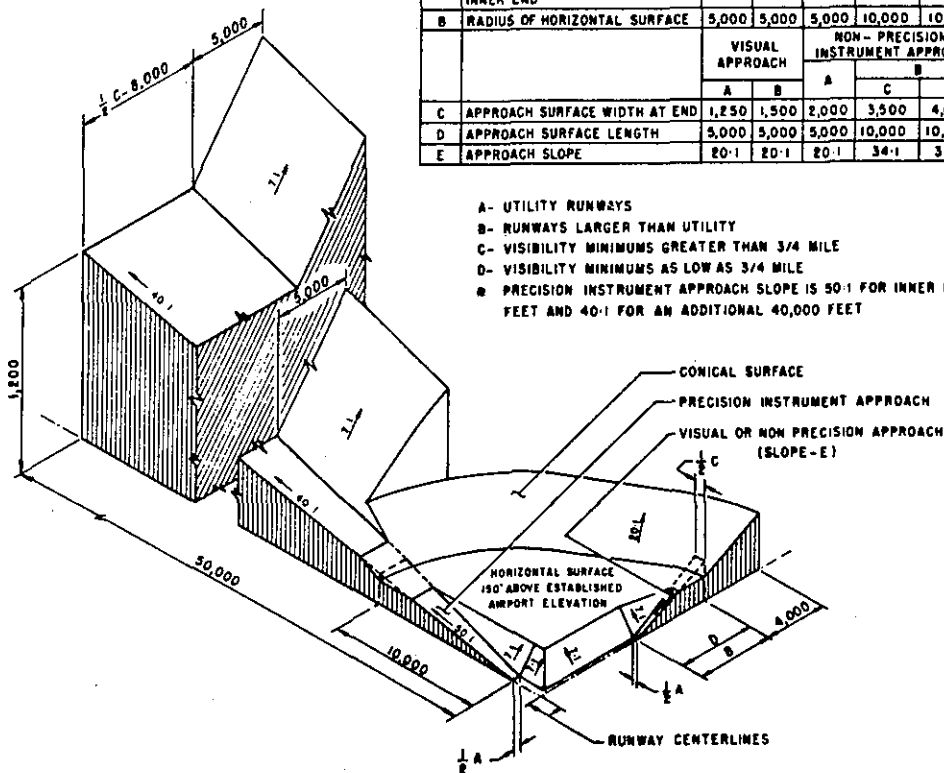
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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

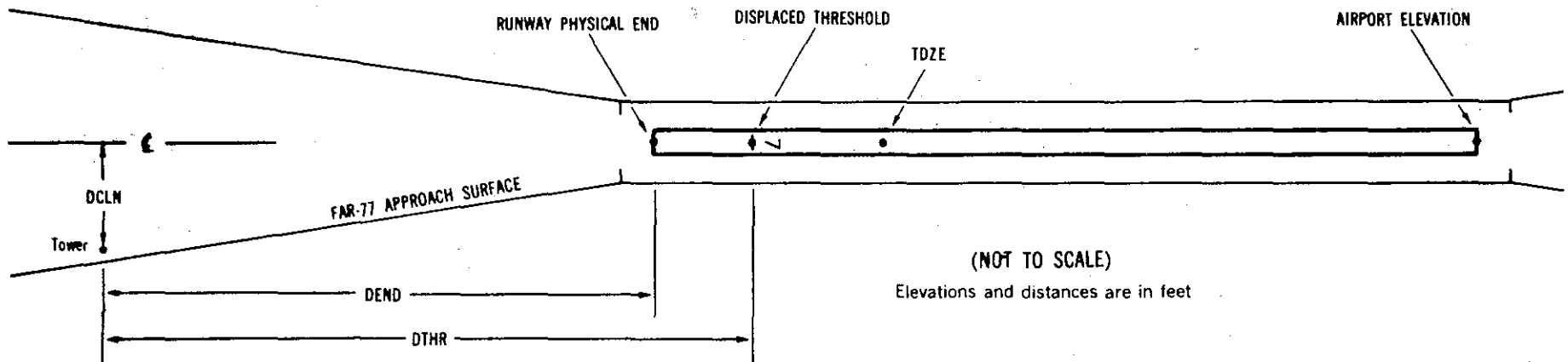
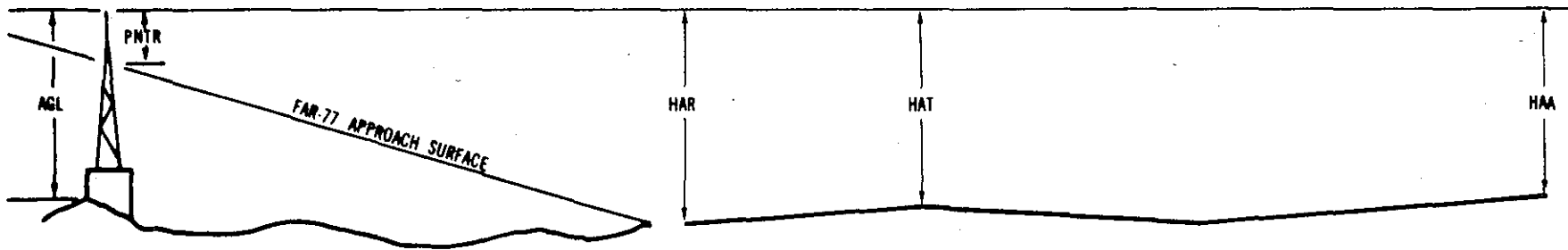
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXXX.XXX ⁴	XXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXX.XXX ⁷	A ⁸	ELEV ⁹	AGL ¹⁰	HAR ¹¹	HAT ¹¹	HAA ¹¹	DEND ¹²	DTHR ¹²	DCLN ¹²	PNTR ¹³
XXXXXXXXXXXXXX			XXXXXX.XXX	XXXXXXXX.XXX	XX XXXX XXXX	XXX	XXX	XXX	XXXX	XXXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX
XXXXXXXXXXXXXX			XXXXXX.XXX	XXXXXXXX.XXX	XX XXXX XXXX	XXX	XXX	XXX	XXXX	XXXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	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).

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AIRPORT ELEVATION 1185

9 C 1176/1185 400808.934N 0801757.523W 2650102

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	400811.34	0801705.83	1A	1182		6	-3	-3	-4021		106R	8
LIGHT ON WINDSOCK	400810.57	0801708.58	1A	1192		16	7	7	-3802		165R	17
TREE	400812.94	0801716.86	1A	1191		15	6	6	-3182		130L	13
OL ON WINDSOCK	400813.73	0801725.63	1A	1207		31	22	22	-2510		268L	25
GROUND	400812.51	0801741.09	1A	1188		12	3	3	-1303		250L	6
TREE	400807.80	0801742.93	1A	1208		32	23	23	-1120		213R	27
TREE	400811.21	0801746.82	1A	1200		24	15	15	-848		157L	21
TREE	400811.35	0801753.22	1A	1209		33	24	24	-355		215L	32
TREE	400807.47	0801759.77	1A	1195		19	10	10	187		133R	19
GROUND	400811.02	0801800.47	1A	1181		5	-4	-4	210		230L	5
TREE	400807.22	0801802.47	1A	1195		19	10	10	398		139R	13
TREE	400810.01	0801802.96	1A	1200		24	15	15	412		145L	18
TREE	400811.00	0801805.45	1A	1234		58	49	49	595		262L	46
TREE	400803.91	0801812.11	1A	1257		81	72	72	1173		408R	52
TREE	400810.19	0801815.26	1A	1244		68	59	59	1361		246L	34
TREE	400805.99	0801817.67	1A	1234		58	49	49	1585		161R	17
TREE	400800.92	0801828.74	1A	1359		183	174	174	2486		598R	116
TREE	400808.96	0801829.82	1A	1249		73	64	64	2499		221L	5
TREE	400812.39	0801837.65	1A	1354		178	169	169	3074		620L	93
TREE	400806.00	0801837.01	1A	1343		167	158	158	3082		29R	82
POLE	400809.97	0801837.82	1A	1340		164	155	155	3109		377L	78
TREE	400800.39	0801836.78	1A	1364		188	179	179	3113		596R	102
TREE	400809.18	0801838.28	1A	1348		172	163	163	3151		300L	85
POLE	400801.32	0801839.43	1A	1332		156	147	147	3309		484R	65
TREE	400810.65	0801854.09	1A	1320		144	135	135	4362		555L	22
TREE	400810.31	0801935.57	1A	1394		218	209	209	7574		801L	1

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AIRPORT ELEVATION 1185

27 C 1168/1185 400813.220N 0801653.393W 0850143

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEMD	DTHR	DCLN	PNTR
GROUND	400811.02	0801800.47	1A	1181		13	-4	-4	-5210		230R	5
TREE	400807.47	0801759.77	1A	1195		27	10	10	-5186		133L	19
TREE	400811.35	0801753.22	1A	1209		41	24	24	-4645		215R	32
TREE	400811.21	0801746.82	1A	1200		32	15	15	-4152		157R	21
TREE	400807.80	0801742.93	1A	1208		40	23	23	-3880		213L	27
GROUND	400812.51	0801741.09	1A	1188		20	3	3	-3697		250R	6
OL ON WINDSOCK	400813.73	0801725.63	1A	1207		39	22	22	-2490		268R	25
TREE	400812.94	0801716.86	1A	1191		23	6	6	-1818		130R	13
LIGHT ON WINDSOCK	400810.57	0801708.58	1A	1192		24	7	7	-1198		165L	17
BUSH	400811.34	0801705.83	1A	1182		14	-3	-3	-979		106L	8
TREE	400818.38	0801637.04	1A	1208		40	23	23	1311		410R	7
TREE	400827.04	0801547.55	1A	1319		151	134	134	5216		951R	3
TREE	400828.60	0801542.03	1A	1380		212	195	195	5657		1070R	52
TREE	400824.22	0801541.41	1A	1343		175	158	158	5666		625R	14
TREE	400809.71	0801522.56	1A	1398		230	213	213	6998		964L	30
TREE	400820.80	0801523.68	1A	1356		188	171	171	7008		162R	-12
TREE	400823.83	0801522.86	1A	1370		202	185	185	7098		461R	-1
TREE	400808.70	0801519.34	1A	1461		293	276	276	7238		1087L	86
TREE	400813.09	0801513.52	1A	1460		292	275	275	7727		684L	71
TREE	400820.23	0801510.47	1A	1464		296	279	279	8026		15R	66
TREE	400823.39	0801502.96	1A	1454		286	269	269	8634		284R	38

OC5148

AIRPORT ELEVATION 1185

ARP 400811.078N 0801725.458W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	400813.90	0801724.62	1A	1224		39	20 18	292
HANGAR	400807.04	0801724.02	1A	1207		22	172 12	424
TREE	400815.19	0801727.20	1A	1250		65	349 29	437
ANTENNA ON BUILDING	400808.02	0801720.34	1A	1209		24	135 23	504
OL ON HANGAR	400807.03	0801716.20	1A	1213		28	127 10	827
ANTENNA ON OL HANGAR	400806.54	0801737.59	1A	1216		31	251 31	1048
FENCE	400813.97	0801741.55	1A	1210		25	290 41	1284
TREE	400814.67	0801743.69	1A	1264		79	291 53	1462
TREE	400816.42	0801756.52	1A	1289		104	290 8	2472
TREE	400813.35	0801801.50	1A	1243		58	282 12	2809
TREE	400829.97	0801753.47	1B	1424		239	318 48	2896
TREE	400811.70	0801803.19	1A	1240		55	278 44	2932
ROD ON OL POLE	400829.90	0801755.25	1B	1424		239	316 58	2997
TREE	400745.11	0801655.05	1B	1311		126	145 33	3533
TREE	400818.39	0801639.11	1A	1209		24	85 53	3675
TREE	400754.06	0801807.61	1B	1344		159	249 46	3699
TREE	400759.03	0801815.36	1A	1351		166	260 3	4063
TRANSMISSION TOWER	400851.59	0801709.41	1B	1446		261	24 24	4284
TREE	400840.13	0801805.79	1B	1447		262	320 41	4296
ROD ON OL POLE	400841.94	0801811.96	1B	1466		281	318 21	4775
OL ON TRANSMISSION TOWER	400901.48	0801708.75	1B	1453		268	21 46	5263
TREE	400814.74	0801836.17	1A	1367		182	281 22	5504
TREE	400805.17	0801614.81	1A	1308		123	103 43	5520
TREE	400808.28	0801611.56	1A	1268		83	100 19	5747
OL ON AIRPORT BEACON	400755.80	0801838.68	1A	1414		229	262 18	5894
OL ON TRANSMISSION TOWER	400827.56	0801838.53	1B	1455		270	293 53	5915
TREE	400757.01	0801840.23	1A	1411		226	263 44	5980
TREE	400729.21	0801630.78	1B	1418		233	142 26	5999
TREE	400846.79	0801827.76	1B	1390		205	314 16	6040
TREE	400758.36	0801608.56	1B	1403		218	109 39	6110
TREE	400731.08	0801825.59	1B	1432		247	236 35	6181
TREE	400912.47	0801726.23	1B	1371		186	6 57	6213
TREE	400748.16	0801611.16	1B	1379		194	119 23	6220

AIRPORT ELEVATION 1185

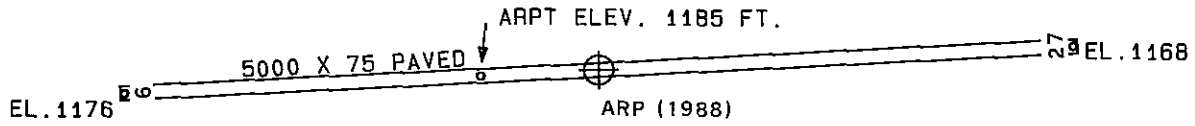
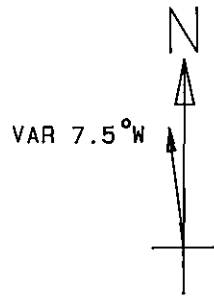
ARP 400811.078N 0801725.458W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	400733.83	0801617.85	1B	1414		229	133 10	6464
TREE	400730.05	0801617.35	1B	1421		236	135 37	6725
TREE	400909.13	0801808.76	1B	1413		228	337 43	6769
TREE	400901.28	0801827.41	1B	1406		221	324 4	6997
TREE	400814.63	0801859.04	1A	1344		159	280 20	7278
TRANSMISSION TOWER	400926.98	0801706.30	1B	1420		235	18 27	7824
TREE	400908.68	0801837.76	1B	1453		268	323 34	8093
TREE	400852.24	0801854.93	1B	1449		264	308 27	8102
TREE	400829.69	0801543.50	1B	1364		179	84 7	8140
TREE	400907.40	0801845.79	1B	1456		271	319 55	8450
TREE	400652.85	0801644.84	1B	1447		262	165 46	8522
TREE	400647.10	0801710.18	1B	1408		223	179 33	8580
TANK	400646.89	0801710.70	1B	1399		214	179 50	8596
TREE	400935.49	0801754.82	1B	1361		176	352 33	8841
TREE	400908.55	0801853.31	1B	1475		290	317 57	8965
TREE	400708.92	0801848.54	1B	1439		254	233 14	9012
TREE	400659.60	0801615.02	1B	1480		295	150 23	9069
TREE	400942.62	0801803.72	1B	1368		183	349 43	9728
TREE	400806.00	0801519.56	1A	1458		273	100 30	9792
TREE	400659.61	0801559.57	1B	1492		307	144 48	9840
TREE	400901.01	0801534.07	1B	1386		201	67 12	10018
TREE	400840.45	0801928.80	1B	1408		223	294 45	10030
TREE	400731.41	0801523.70	1B	1410		225	120 29	10275
TRANSMISSION TOWER	400818.62	0801937.92	1B	1422		237	281 45	10316
TREE	400846.28	0801931.88	1B	1414		229	297 27	10445
TREE	400947.40	0801819.43	2C	1423		238	344 14	10610
TREE	400628.25	0801657.87	2C	1446		261	175 52	10623
TREE	400650.88	0801857.20	1B	1425		240	228 48	10800
TREE	400644.38	0801849.27	1B	1439		254	224 5	10925
TREE	400933.03	0801552.95	1B	1346		161	48 24	10972
TREE	400621.03	0801701.39	2C	1440		255	177 58	11292
TREE	400904.66	0801513.64	1B	1453		268	69 35	11585
DERRICK	400949.37	0801845.31	2C	1472		287	335 34	11721

AIRPORT ELEVATION 1185

ARP 400811.078N 0801725.458W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG	BEARING	DISTANCE
TREE	400948.90	0801851.85	2C	1484		299	333	23	11958
TREE	400719.54	0801946.64	1B	1361		176	252	5	12144
TREE	400622.36	0801838.20	2C	1441		256	214	42	12368
TREE	400716.25	0801500.66	2C	1459		274	123	45	12542
TREE	400701.53	0801940.76	2C	1405		220	243	42	12649
TREE	400825.35	0802008.57	2C	1364		179	284	1	12750
TREE	400645.72	0801936.01	2C	1454		269	237	5	13321
TREE	400657.46	0801502.10	2C	1494		309	131	16	13398
TRANSMISSION TOWER	400812.01	0802018.27	2C	1351		166	277	55	13423
TREE	400637.25	0801522.07	2C	1478		293	142	13	13492
TREE	400752.21	0801431.32	2C	1564		379	105	31	13660
TREE	400758.10	0801428.41	2C	1491		306	102	56	13814
TREE	400722.67	0801433.52	2C	1505		320	117	37	14226



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
9	1185
27	1185

WASHINGTON COUNTY AIRPORT
 WASHINGTON, PENNSYLVANIA
 (NOT TO SCALE)