

# OBSTRUCTION DATA SHEET

**ODS 5134  
CHESTER COUNTY - G. O. CARLSON AIRPORT  
COATESVILLE, PENNSYLVANIA**

**DIGITIZED FROM**

**OC 5134  
SURVEYED AUGUST 1991  
2ND EDITION**



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

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See SPECIAL NOTICES in "Dates of Latest Editions, Airport Obstruction Charts - Obstruction Data Sheets," for possible corrections. National Oceanic and Atmospheric Administration (NOAA) publications are available through NOAA Distribution Branch (N/CG33), National Ocean Service, Riverdale, MD 20737. Telephone: 301-436-6990

## 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:

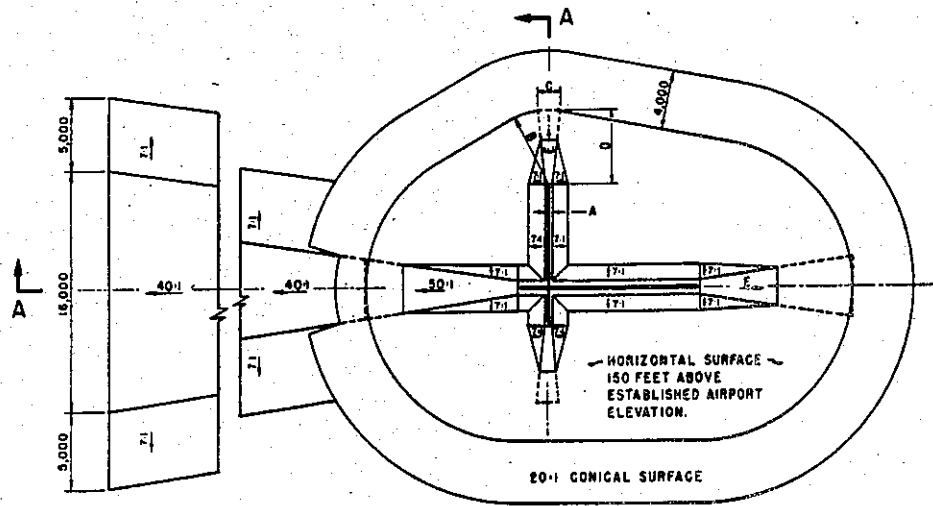
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

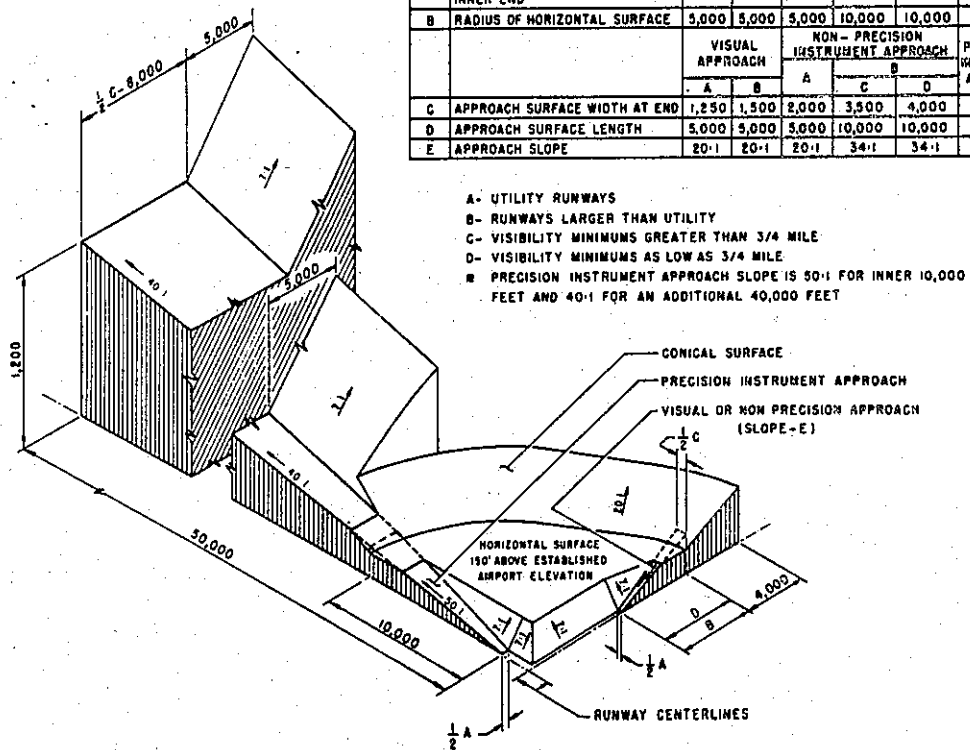
A(V) ..... Utility runway - visual approach only  
 A(NP) .... Utility runway - nonprecision instrument approach  
 B(V) ..... Nonutility runway - visual approach only  
 C ..... Nonutility runway - nonprecision instrument approach with  
 visibility minimums greater than 3/4 mile  
 D ..... Nonutility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

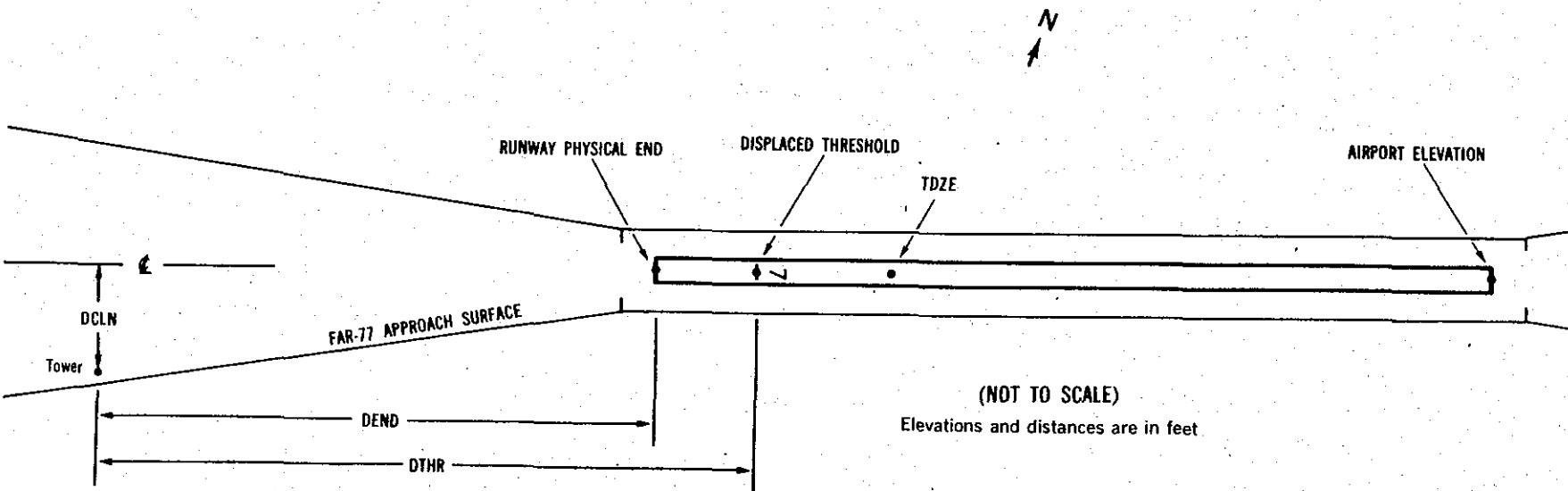
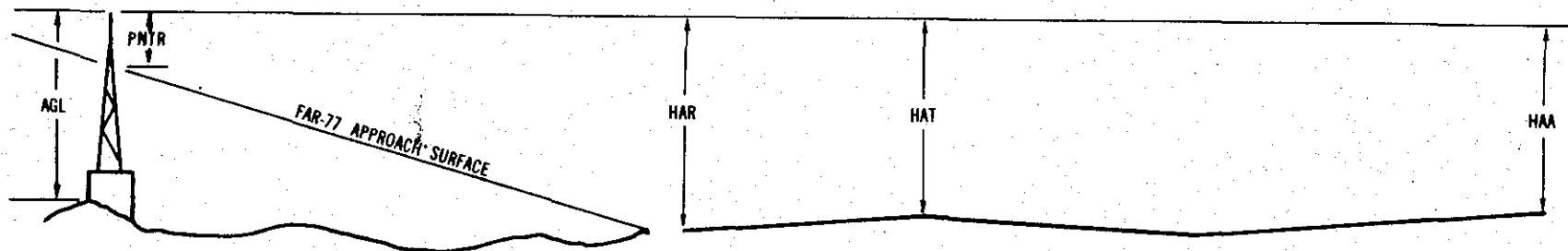
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X <sup>1</sup>	X <sup>2</sup>	XXXX/XXXX <sup>3</sup>	XXXXXX.XXX <sup>4</sup>	XXXXXXXX.XXX <sup>4</sup>	XXXXXXXX <sup>5</sup>	XXXX/XXXX <sup>6</sup>	XXXXXX.XXX <sup>7</sup>	XXXXXXXX.XXX <sup>7</sup>				
OBJECT	LAT	LONG	A <sup>8</sup>	ELEV <sup>9</sup>	AGL <sup>10</sup>	HAR <sup>11</sup>	HAT <sup>11</sup>	HAA <sup>11</sup>	DEND <sup>12</sup>	DTHR <sup>12</sup>	DCLN <sup>12</sup>	PNTR <sup>13</sup>
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXXX	XXXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXXX	XXXXXX	XXXX	XXXX

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## EXPLANATION OF FOOTNOTES

- <sup>1</sup> 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.
- <sup>2</sup> For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- <sup>3</sup> Reference runway approach physical end elevation/touchdown zone elevation
- <sup>4</sup> Latitude and longitude of reference runway approach physical end
- <sup>5</sup> Reference runway geodetic azimuth reckoned clockwise from south
- <sup>6</sup> Reference runway displaced threshold elevation/touchdown zone elevation
- <sup>7</sup> Latitude and longitude of reference runway displaced threshold
- <sup>8</sup> Accuracy Code:
- |   | Horizontal | Vertical |
|---|------------|----------|
| 1 | = 20       | A = 2    |
| 2 | = 40       | B = 5    |
|   |            | C = 20   |
- <sup>9</sup> 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.
- <sup>10</sup> 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  $\pm 10$  feet.
- <sup>11</sup> HAA - Height above airport  
 HAR - Height above reference runway approach physical end  
 HAT - Height above reference runway touchdown zone elevation
- <sup>12</sup> 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.
- <sup>13</sup> PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC5134

AIRPORT ELEVATION 661

11 C 639/645 395849.259N 0755230.842W 2813831

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	395833.42	0755122.67	1A	669		30	24	8	-5522		498R	8
TREE	395842.25	0755126.48	1A	665		26	20	4	-5050		317L	5
GROUND	395835.54	0755135.07	1A	670		31	25	9	-4533		483R	13
OL ON GLIDE SLOPE	395837.88	0755138.19	1A	682		43	37	21	-4247		300R	27
GROUND	395837.89	0755144.70	1A	662		23	17	1	-3750		402R	11
BUSH	395845.01	0755145.18	1A	660		21	15	-1	-3568		297L	11
TREE	395838.35	0755151.34	1A	684		45	39	23	-3235		460R	38
ROD ON HANGAR	395847.73	0755151.06	1A	677		38	32	16	-3064		473L	31
TREE	395838.70	0755156.42	1A	707		68	62	46	-2841		506R	62
FLOODLIGHT POLE	395849.57	0755200.71	1A	663		24	18	2	-2291		504L	19
OL ON LIGHTED WINDSOCK	395841.17	0755203.59	1A	675		36	30	14	-2243		373R	31
TREE	395841.00	0755208.95	1A	660		21	15	-1	-1838		475R	17
TREE	395840.90	0755211.10	1A	663		24	18	2	-1676		518R	21
HANGAR	395851.63	0755213.90	1A	671		32	26	10	-1243		501L	32
GROUND	395849.94	0755214.44	1A	644		5	-1	-17	-1237		325L	5
TREE	395842.26	0755216.72	1A	662		23	17	1	-1220		472R	23
TREE	395844.39	0755217.52	1A	666		27	21	5	-1115		273R	27
TREE	395844.25	0755223.58	1A	675		36	30	14	-656		383R	37
TREE	395851.41	0755224.95	1A	645		6	0	-16	-405		306L	7
TREE	395846.56	0755227.43	1A	652		13	7	-9	-315		214R	14
TREE	395853.70	0755225.99	1A	659		20	14	-2	-279		517L	21
GROUND	395853.03	0755230.67	1A	642		3	-3	-19	64		377L	3
TREE	395847.05	0755234.03	1A	646		7	1	-15	198		269R	7
GROUND	395851.86	0755232.84	1A	641		2	-4	-20	206		227L	2
OL ON POLE	395855.41	0755238.81	1A	688		49	43	27	733		485L	33
ANTENNA ON BUILDING	395856.44	0755238.82	1A	692		53	47	31	755		586L	37
OL ON LOCALIZER	395850.90	0755241.31	1A	652		13	7	-9	832		1R	-6
ANTENNA ON BUILDING	395853.69	0755241.97	1A	667		28	22	6	939		264L	6
ROAD (N)	395851.12	0755242.84	1A	661		22	16	0	953		4R	-1
TREE	395856.68	0755241.51	1A	696		57	51	35	965		568L	35
OL ON POLE	395855.85	0755244.64	1A	690		51	45	29	1187		436L	22
POLE	395856.53	0755250.40	1A	694		55	49	33	1640		414L	13
POLE	395856.30	0755253.43	1A	703		64	58	42	1866		343L	15

OC5134 File Continued from Previous Page

AIRPORT ELEVATION 661

11 C 639/645 395849.259N 0755230.842W 2813831

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	395856.15	0755255.58	1A	699		60	54	38	2026		294L	6
TREE	395857.11	0755259.17	1A	721		82	76	60	2320		333L	20
TREE	395858.10	0755304.49	1A	731		92	86	70	2746		348L	17



OC5134

AIRPORT ELEVATION 661

29 PIR 661/661 395838.486N 0755122.914W 1013915

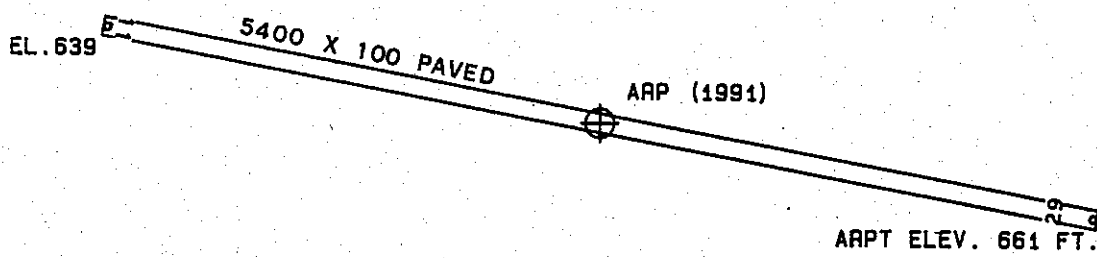
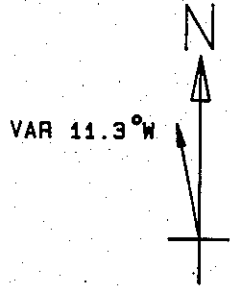
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	395851.86	0755232.84	1A	641		-20	-20	-20	-5605		227R	2
TREE	395847.05	0755234.03	1A	646		-15	-15	-15	-5597		269L	7
GROUND	395853.03	0755230.67	1A	642		-19	-19	-19	-5463		377R	3
TREE	395853.70	0755225.99	1A	659		-2	-2	-2	-5120		517R	21
TREE	395846.56	0755227.43	1A	652		-9	-9	-9	-5084		214L	14
TREE	395851.41	0755224.95	1A	645		-16	-16	-16	-4994		306R	7
TREE	395844.25	0755223.58	1A	675		14	14	14	-4743		383L	37
TREE	395844.39	0755217.52	1A	666		5	5	5	-4284		273L	27
TREE	395842.26	0755216.72	1A	662		1	1	1	-4180		472L	23
GROUND	395849.94	0755214.44	1A	644		-17	-17	-17	-4162		325R	5
HANGAR	395851.63	0755213.90	1A	671		10	10	10	-4156		501R	32
TREE	395840.90	0755211.10	1A	663		2	2	2	-3724		518L	21
TREE	395841.00	0755208.95	1A	660		-1	-1	-1	-3561		475L	17
OL ON LIGHTED WINDSOCK	395841.17	0755203.59	1A	675		14	14	14	-3156		373L	31
FLOODLIGHT POLE	395849.57	0755200.71	1A	663		2	2	2	-3108		504R	19
TREE	395838.70	0755156.42	1A	707		46	46	46	-2559		506L	62
ROD ON HANGAR	395847.73	0755151.06	1A	677		16	16	16	-2335		473R	31
TREE	395838.35	0755151.34	1A	684		23	23	23	-2164		460L	38
BUSH	395845.01	0755145.18	1A	660		-1	-1	-1	-1831		297R	11
GROUND	395837.89	0755144.70	1A	662		1	1	1	-1649		402L	11
OL ON GLIDE SLOPE	395837.88	0755138.19	1A	682		21	21	21	-1152		300L	27
GROUND	395835.54	0755135.07	1A	670		9	9	9	-866		483L	13
TREE	395842.25	0755126.48	1A	665		4	4	4	-349		317R	5
TREE	395833.42	0755122.67	1A	669		8	8	8	122		498L	8
TREE	395832.47	0755118.95	1A	680		19	19	19	425		534L	14
TREE	395833.46	0755115.62	1A	673		12	12	12	659		383L	3
TREE	395839.18	0755108.26	1A	679		18	18	18	1103		300R	-1
TREE	395841.88	0755105.67	1A	696		35	35	35	1245		607R	14
TREE	395840.81	0755105.50	1A	687		26	26	26	1280		505R	4

OC5134

AIRPORT ELEVATION 661

ARP 395843.874N 0755156.877W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	395839.69	0755203.63	1A	694		33	242 27	675
ANTENNA ON OL APBN	395848.40	0755150.04	1A	715		54	60 35	702
TREE	395851.32	0755200.62	1A	709		48	350 9	808
TREE	395834.50	0755157.94	1A	777		116	196 17	952
TREE	395853.26	0755154.88	1A	729		68	20 36	962
ANEMOMETER ON HANGAR	395851.71	0755210.67	1A	682		21	317 44	1334
TREE	395834.57	0755133.66	1A	684		23	128 49	2038
TREE	395856.52	0755221.79	1A	721		60	314 43	2323
TREE	395843.21	0755227.72	1A	681		20	279 42	2402
TREE	395832.76	0755128.18	1A	696		35	128 1	2501
TREE	395855.91	0755226.92	1A	720		59	308 48	2637
TREE	395838.29	0755231.98	1A	703		42	269 37	2791
TREE	395831.71	0755123.70	1A	695		34	126 47	2861
OL ON POLE	395855.77	0755233.49	1A	686		25	304 12	3094
ANTENNA ON BUILDING	395856.75	0755234.38	1A	691		30	305 22	3197
TREE	395844.62	0755103.97	1A	721		60	100 15	4119
OL ON TANK	395833.32	0755250.34	1B	814		153	266 55	4297
TRANSMISSION TOWER	395933.79	0755359.82	1B	804		143	309 8	10821
TREE	395949.24	0755411.19	1B	842		181	313 38	12371
TREE	395951.09	0755418.09	2C	885		224	313 4	12926
ANTENNA	395927.46	0754902.43	2C	837		176	83 17	14278
TREE	395945.63	0755449.04	2C	912		251	306 19	14786



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
11	645
29	661

CHESTER COUNTY - G. O. CARLSON AIRPORT  
COATESVILLE, PENNSYLVANIA  
(NOT TO SCALE)