

OBSTRUCTION DATA SHEET

ODS 899
BUTLER COUNTY AIRPORT
BUTLER, PENNSYLVANIA

DIGITIZED FROM

OC 899
SURVEYED SEPTEMBER 1988
4TH EDITION



PREPARED AND DISTRIBUTED BY
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:

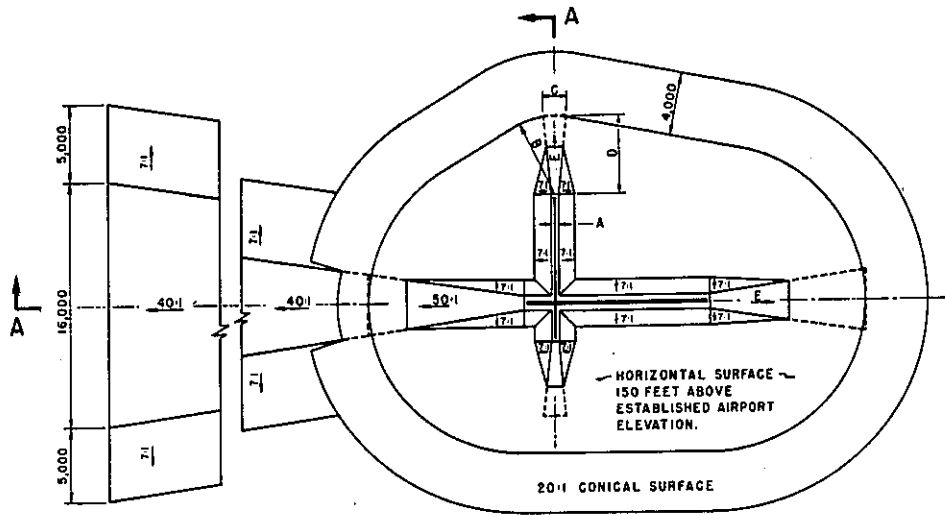
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

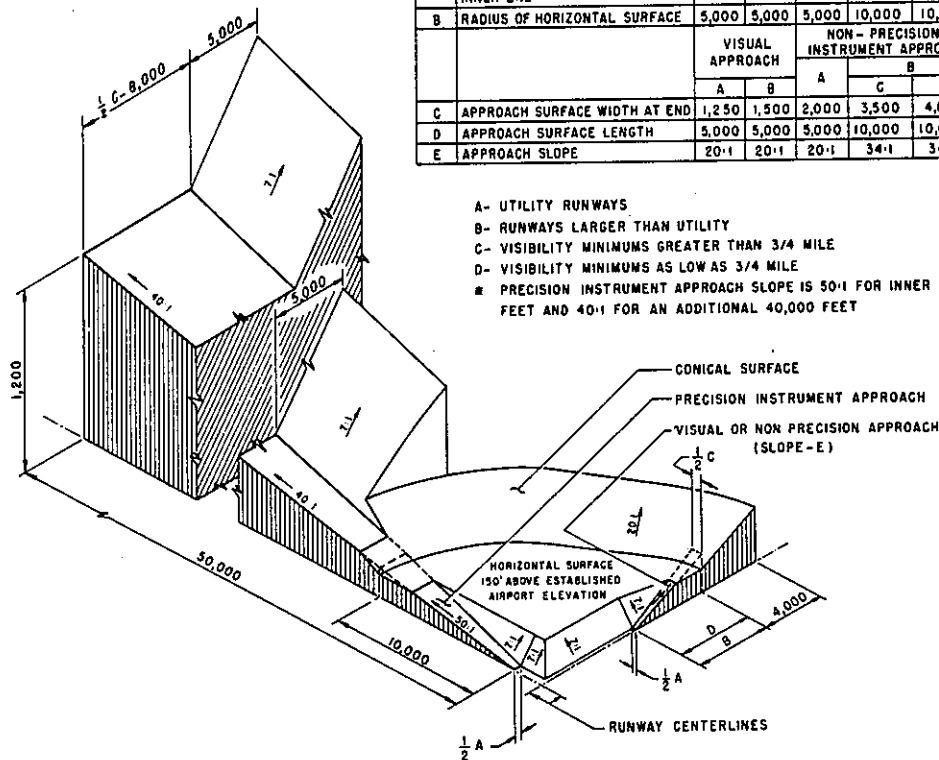
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

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	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
		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	*

- 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

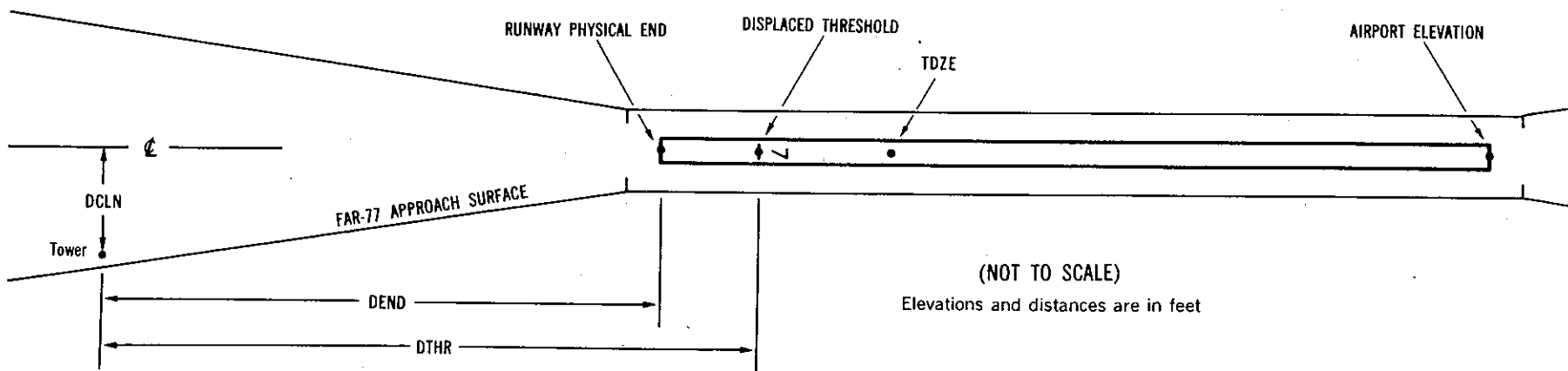
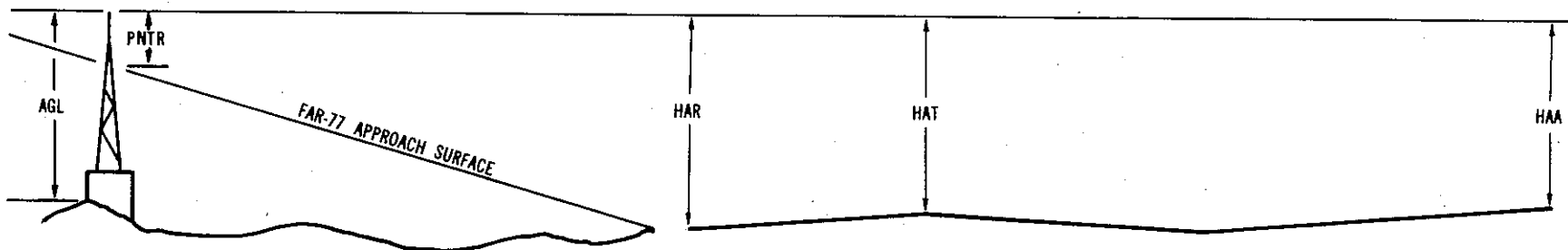
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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).

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AIRPORT ELEVATION 1248

8 PIR 1235/1248 404630.614N 0795724.455W 2515724

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404639.16	0795631.44	1A	1278		43	30	30	-4146		440R	35
TREE	404640.86	0795633.92	1A	1265		30	17	17	-4018		218R	22
POLE	404646.91	0795636.55	1A	1263		28	15	15	-4015		426L	20
POLE	404646.77	0795640.83	1A	1282		47	34	34	-3698		515L	38
GROUND	404644.85	0795641.30	1A	1251		16	3	3	-3603		342L	6
OL ON LTD WSK AND TEE	404643.05	0795651.98	1A	1270		35	22	22	-2766		423L	22
BUILDING	404641.44	0795701.50	1A	1270		35	22	22	-2018		495L	25
BUILDING	404631.99	0795657.96	1A	1262		27	14	14	-1981		499R	17
TREE	404631.86	0795705.04	1A	1286		51	38	38	-1459		343R	43
OL ON GLIDE SLOPE	404631.20	0795711.59	1A	1263		28	15	15	-960		250R	23
TREE	404628.06	0795713.56	1A	1278		43	30	30	-717		505R	39
TREE	404635.98	0795720.83	1A	1275		40	27	27	-433		430L	38
TREE	404618.21	0795743.81	1A	1280		45	32	32	1804		732R	13
ROD ON OL POLE	404619.34	0795744.53	1A	1282		47	34	34	1822		607R	15
TREE	404622.08	0795747.06	1A	1273		38	25	25	1921		283R	4
ROD ON OL POLE	404619.14	0795748.42	1A	1290		55	42	42	2113		533R	17
TREE	404624.83	0795755.34	1A	1278		43	30	30	2441		179L	-2
TREE	404618.72	0795754.33	1A	1287		52	39	39	2558		432R	5
ROD ON OL POLE	404616.99	0795754.63	1A	1310		75	62	62	2634		591R	26
TREE	404618.19	0795815.99	1A	1314		79	66	66	4159		33L	0

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AIRPORT ELEVATION 1248

26 D(ANP) 1243/1248 404642.847N 0795635.047W 0715756

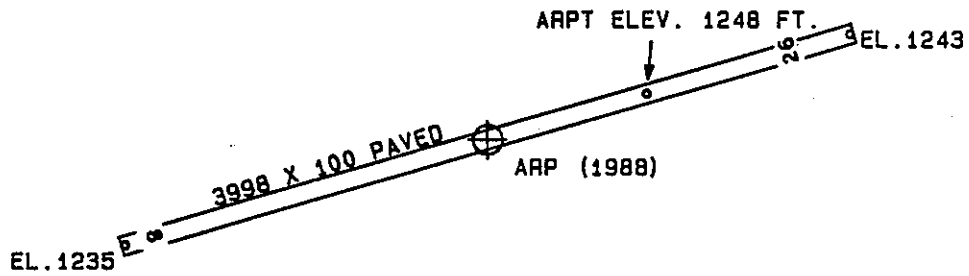
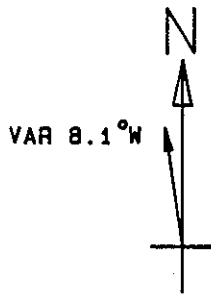
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	404635.98	0795720.83	1A	1275		32	27	27	-3565		430R	38
TREE	404628.06	0795713.56	1A	1278		35	30	30	-3281		505L	39
OL ON GLIDE SLOPE	404631.20	0795711.59	1A	1263		20	15	15	-3038		250L	23
TREE	404631.86	0795705.04	1A	1286		43	38	38	-2538		343L	43
BUILDING	404631.99	0795657.96	1A	1262		19	14	14	-2017		499L	17
BUILDING	404641.44	0795701.50	1A	1270		27	22	22	-1979		495R	25
OL ON LTD WSK AND TEE	404643.05	0795651.98	1A	1270		27	22	22	-1232		423R	22
GROUND	404644.85	0795641.30	1A	1251		8	3	3	-395		342R	6
POLE	404646.77	0795640.83	1A	1282		39	34	34	-300		515R	38
POLE	404646.91	0795636.55	1A	1263		20	15	15	17		426R	20
TREE	404640.86	0795633.92	1A	1265		22	17	17	20		218L	22
TREE	404639.16	0795631.44	1A	1278		35	30	30	148		440L	35
TREE	404639.36	0795629.85	1A	1276		33	28	28	271		459L	29
TREE	404647.58	0795633.09	1A	1267		24	19	19	292		409R	19
OL ON LOCALIZER	404643.76	0795631.35	1A	1242		-1	-6	-6	299		0L	-6
POLE	404640.67	0795629.37	1A	1253		10	5	5	347		344L	3
TREE	404644.88	0795629.79	1A	1258		15	10	10	448		71R	3
TREE	404650.10	0795627.90	1A	1278		35	30	30	750		528R	7
TREE	404646.21	0795624.55	1A	1285		42	37	37	873		74R	8
TREE	404650.69	0795624.44	1A	1298		55	50	50	1022		502R	14
TREE	404648.62	0795622.87	1A	1295		52	47	47	1072		266R	8
TREE	404642.90	0795620.31	1A	1294		51	46	46	1080		346L	7
TREE	404642.57	0795616.78	1A	1302		59	54	54	1328		461L	3
TREE	404642.06	0795615.09	1A	1306		63	58	58	1435		551L	1
TREE	404654.26	0795617.62	1A	1311		68	63	63	1632		683R	-5
TREE	404654.76	0795551.40	1A	1333		90	85	85	3566		107R	-78
TREE	404647.36	0795541.57	1A	1385		142	137	137	4054		839L	-52

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AIRPORT ELEVATION 1248

ARP 404636.731N 0795659.751W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON BUILDING	404632.69	0795652.45	1A	1273		25	134 10	695
POLE	404631.76	0795652.82	1A	1278		30	141 25	733
ROD ON OL AIRPORT BEACON	404645.08	0795657.64	1A	1293		45	18 58	860
TREE	404648.90	0795650.23	1A	1316		68	38 51	1433
TREE	404647.77	0795641.94	1A	1331		83	58 55	1768
TREE	404625.51	0795722.69	1A	1272		24	245 21	2099
TREE	404625.06	0795724.51	1A	1259		11	246 18	2241
TREE	404637.55	0795730.77	1A	1286		38	280 5	2388
TREE	404636.32	0795733.96	1A	1280		32	277 12	2632
TREE	404617.80	0795742.48	1A	1298		50	247 52	3805
TREE	404547.88	0795732.67	1B	1398		150	215 14	5555
TREE	404610.67	0795554.41	1B	1411		163	125 47	5677
TREE	404546.22	0795740.26	1B	1420		172	219 29	5987
TREE	404640.43	0795536.94	1B	1482		234	94 44	6382
TREE	404637.11	0795530.00	1B	1498		250	97 47	6905
TREE	404617.24	0795521.55	1B	1505		257	112 44	7809
TREE	404629.28	0795447.68	1B	1469		221	102 20	10189
TREE	404503.19	0795515.21	2C	1480		232	147 44	12423
TREE	404504.55	0795505.37	2C	1494		246	144 45	12826



TOUCHDOWN ZONE RUNWAY ELEVATION	
8	1248
26	1248

BUTLER COUNTY AIRPORT
 BUTLER, PENNSYLVANIA
 (NOT TO SCALE)