

OBSTRUCTION DATA SHEET

**ODS 5313
PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS**

DIGITIZED FROM

**OC 5313
SURVEYED 6 JUNE 1992
3RD EDITION**

**HORIZONTAL DATUM NAD83
VERTICAL DATUM NGVD29**



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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 No. 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 the OC depict a representation of objects that existed at the time of the OC field survey.

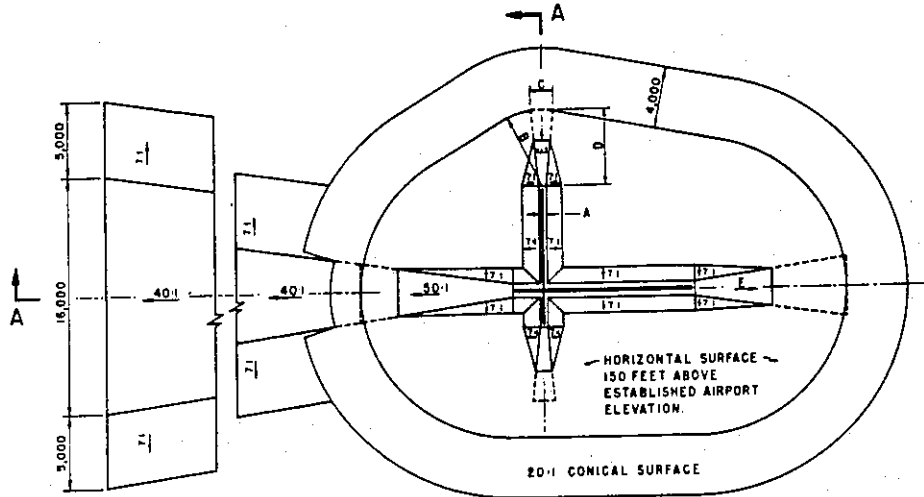
ODS information is arranged as follows:

1. Objects located in an FAR-77 approach or primary and listed with the associated runway (reference runway).
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:

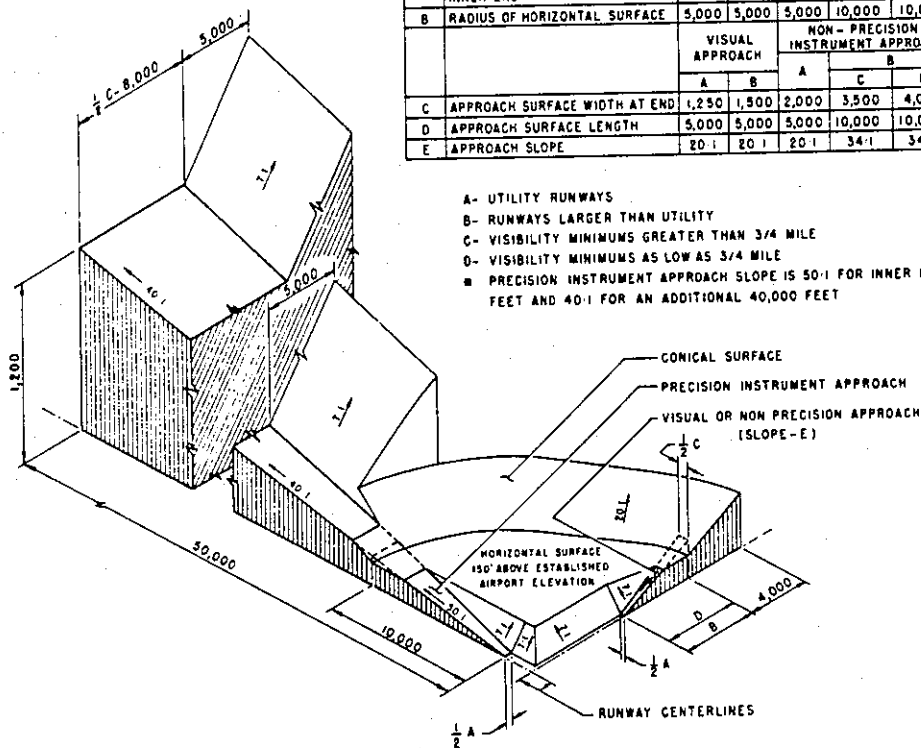
A(V) Utility runway - visual approach only
A(NP) Utility runway - nonprecision instrument approach
B(V) Nonutility runway - visual approach only
C Nonutility runway - nonprecision instrument
 approach with visibility minimums greater than
 3/4 mile
D Nonutility runway- nonprecision instrument approach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



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	1,250	1,500	2,000	3,500	4,000	16,000
E	APPROACH SLOPE	50:1	50:1	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

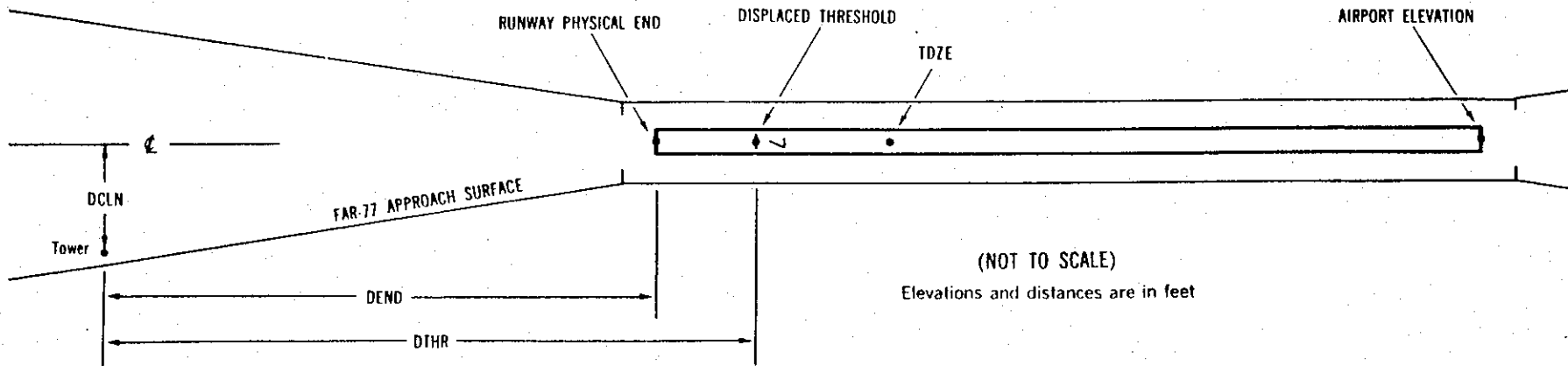
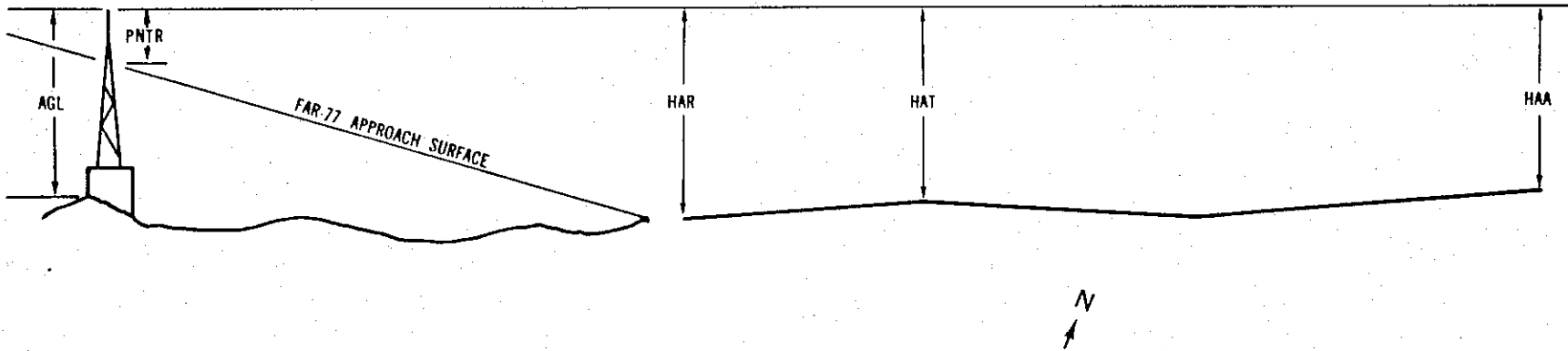
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x¹ x² XXXX/XXXX³ XXXXXX.XXX⁴ XXXXXX.XXX⁴ XXXXXX⁵ XXXX/XXXX⁶ XXXXXX.XXX⁷ XXXXXX.XXX⁷

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 areas 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 Elevation at approach end of reference runway/touchdown zone elevation
- 4 Latitude and longitude at approach end of reference runway
- 5 Geodetic azimuth of reference runway reckoned from north
- 6 Elevation at reference runway displaced threshold/touchdown zone elevation
- 7 Latitude and longitude at reference runway displace threshold
- 8 Accuracy codes: Horizontal Vertical
 1 = 20 A = 2
 2 = 40 B = 5
 C = 20
- 9 Elevation above mean sea level (MSL) 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). AGL's are provided only for manmade objects appearing on the OC and equal to or greater than 200 feet AGL. AGL accuracy is 10 feet.
- 11 HAA - Height above airport
 HAR - Height above approach end of reference runway
 HAT - Height above reference runway touchdown zone elevation
- 12 DEND - Distance along reference runway centerline from point nearest to object (perpendicular) to approach end of runway
 DTHR - Distance along reference runway centerline from point nearest to object (perpendicular) to displace 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 that object is in primary on roll-out side of zero distance point.
- 13 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

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AIRPORT ELEVATION 8

7 PIR 8/ 8 420410.374 -701336.897 591815.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	420431.30	-701257.61	1A	21		13	13	13	-3629		309L	13
TREE	420425.41	-701252.94	1A	35		27	27	27	-3628		384R	27
TREE	420425.03	-701254.39	1A	27		19	19	19	-3514		361R	19
TREE	420430.17	-701302.70	1A	19		11	11	11	-3241		407L	11
TREE	420428.78	-701305.15	1A	22		14	14	14	-3010		380L	14
TREE	420422.34	-701300.32	1A	31		23	23	23	-2990		367R	23
BUSH	420423.33	-701301.80	1A	15		7	7	7	-2946		223R	7
OL ON WINDSOCK	420427.12	-701307.34	1A	28		20	20	20	-2782		320L	20
TREE	420418.64	-701308.61	1A	32		24	24	24	-2262		369R	24
TREE	420423.59	-701318.12	1A	20		12	12	12	-1901		428L	12
TREE	420415.78	-701314.36	1A	34		26	26	26	-1741		397R	26
TREE	420421.40	-701322.60	1A	24		16	16	16	-1497		409L	16
TREE	420412.22	-701322.25	1A	34		26	26	26	-1046		403R	26
TREE	420418.05	-701328.88	1A	27		19	19	19	-917		359L	19
TREE	420410.77	-701323.26	1A	37		29	29	29	-905		491R	29
OL ON GS	420411.73	-701326.04	1A	41		33	33	33	-774		300R	33
TREE	420416.01	-701334.14	1A	29		21	21	21	-470		384L	21
TREE	420415.01	-701337.38	1A	25		17	17	17	-208		422L	17
BUSH	420413.64	-701339.34	1A	18		10	10	10	-10		378L	10
BUSH	420412.52	-701341.58	1A	13		5	5	5	192		367L	5
BUSH	420407.83	-701337.97	1A	15		7	7	7	201		180R	7
BUSH	420404.01	-701338.25	1A	16		8	8	8	416		502R	4
BUSH	420404.72	-701339.81	1A	18		10	10	10	481		380R	5
OBSERVATION STAND	420403.30	-701345.14	1A	19		11	11	11	900		298R	-3

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AIRPORT ELEVATION 8

25 C 8/ 8 420428.013 -701257.013 2391842.

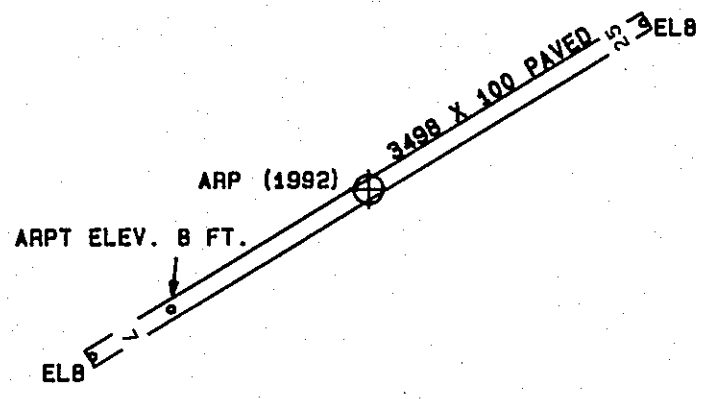
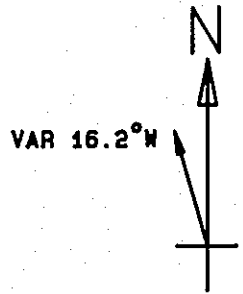
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	420412.52	-701341.58	1A	13		5	5	5	-3690		367R	5
BUSH	420413.64	-701339.34	1A	18		10	10	10	-3488		378R	10
TREE	420415.01	-701337.38	1A	25		17	17	17	-3289		422R	17
TREE	420416.01	-701334.14	1A	29		21	21	21	-3028		384R	21
OL ON GS	420411.73	-701326.04	1A	41		33	33	33	-2724		300L	33
TREE	420410.77	-701323.26	1A	37		29	29	29	-2593		491L	29
TREE	420418.05	-701328.88	1A	27		19	19	19	-2581		359R	19
TREE	420412.22	-701322.25	1A	34		26	26	26	-2452		403L	26
TREE	420421.40	-701322.60	1A	24		16	16	16	-2001		409R	16
TREE	420415.78	-701314.36	1A	34		26	26	26	-1757		397L	26
TREE	420423.59	-701318.12	1A	20		12	12	12	-1597		428R	12
TREE	420418.64	-701308.61	1A	32		24	24	24	-1236		369L	24
OL ON WINDSOCK	420427.12	-701307.34	1A	28		20	20	20	-716		320R	20
BUSH	420423.33	-701301.80	1A	15		7	7	7	-552		223L	7
TREE	420422.34	-701300.32	1A	31		23	23	23	-508		367L	23
TREE	420428.78	-701305.15	1A	22		14	14	14	-488		380R	14
TREE	420430.17	-701302.70	1A	19		11	11	11	-257		407R	11
TREE	420425.03	-701254.39	1A	27		19	19	19	16		361L	19
TREE	420425.41	-701252.94	1A	35		27	27	27	130		384L	27
TREE	420431.30	-701257.61	1A	21		13	13	13	131		309R	13
TREE	420426.53	-701250.66	1A	29		21	21	21	336		373L	17
TREE	420432.17	-701254.64	1A	26		18	18	18	368		270R	13
OL ON DME	420432.72	-701252.68	1A	20		12	12	12	524		243R	3
TREE	420433.28	-701252.68	1A	32		24	24	24	553		291R	14
TREE	420428.17	-701248.59	1A	24		16	16	16	554		311L	6
OL ON LOCALIZER	420431.03	-701250.20	1A	17		9	9	9	597		OR	-2
TREE	420430.35	-701248.67	1A	28		20	20	20	662		118L	7
TREE	420432.18	-701249.93	1A	29		21	21	21	675		90R	7
TREE	420435.63	-701251.26	1A	32		24	24	24	767		442R	8
TREE	420434.47	-701246.95	1A	34		26	26	26	986		175R	3
GROUND	420439.08	-701246.52	1A	47		39	39	39	1252		560R	8
TREE	420433.17	-701241.74	1A	37		29	29	29	1257		139L	-2

OC5313

AIRPORT ELEVATION 8

ARP 420419.194 -701316.956

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	420413.16	-701308.63	1A	60		52	15025	876
TREE	420410.36	-701315.82	1A	58		50	19044	898
TREE	420416.77	-701302.73	1A	60		52	11903	1101
ROD ON OL APBN	420434.20	-701302.65	1A	40		32	5135	1862
ANT ON HGR	420433.72	-701300.26	1A	30		22	5646	1936
BUSH	420414.39	-701342.80	1A	21		13	27210	2009
BUSH	420404.34	-701335.65	1A	17		9	23921	2061
TREE	420436.41	-701253.65	1A	30		22	6126	2475
STANDPIPE	420309.44	-701133.03	2C	189		181	14811	10550
ANT ON OL MONUMENT	420308.03	-701119.29	2A	348	259	340	14515	11431



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
7	8
25	8

PROVINCETOWN MUNICIPAL AIRPORT
 PROVINCETOWN, MASSACHUSETTS
 (NOT TO SCALE)