

OBSTRUCTION DATA SHEET

**ODS 5129
WATERVILLE ROBERT LAFLEUR AIRPORT
WATERVILLE, MAINE**

DIGITIZED FROM

**OC 5129
SURVEYED JULY 1990
3RD 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:

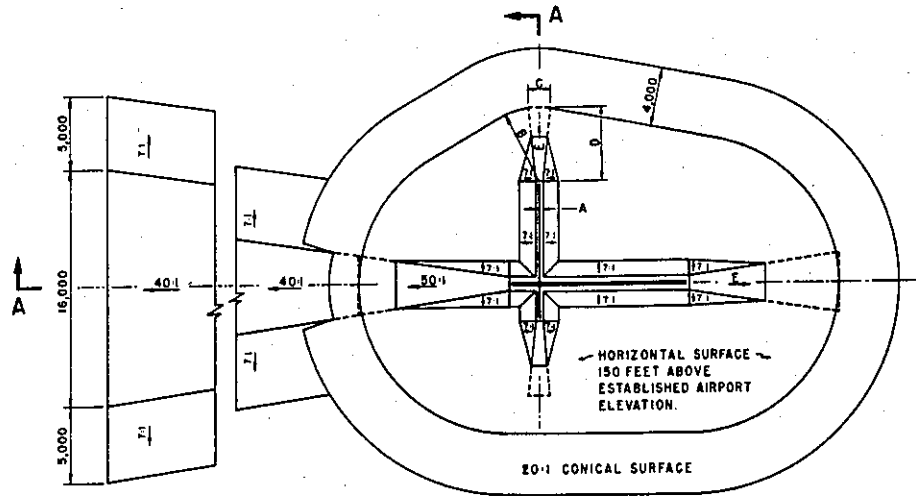
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the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

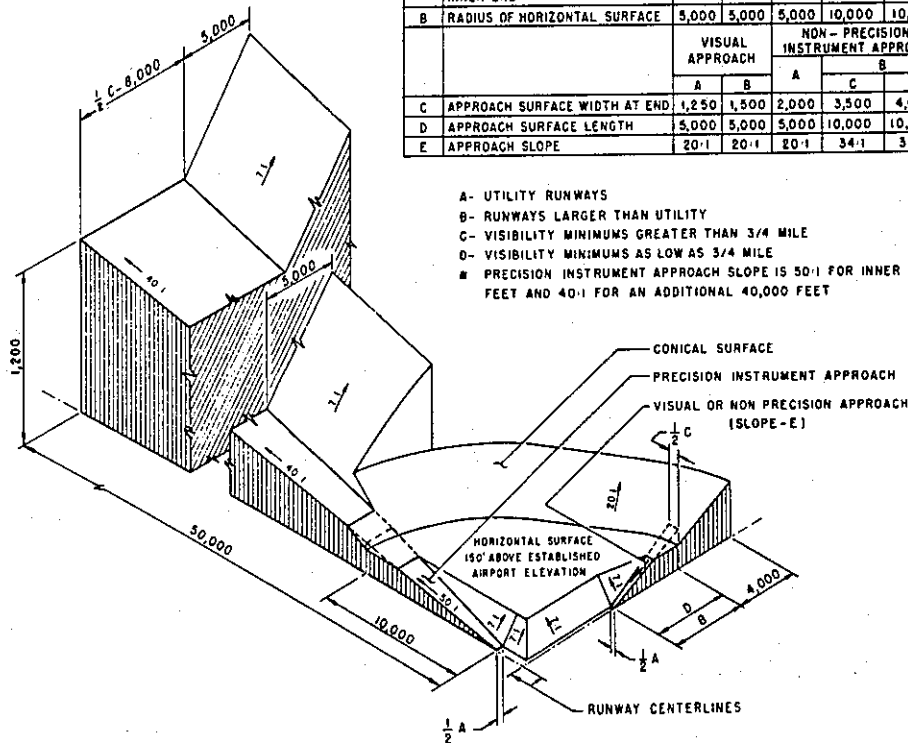
A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach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

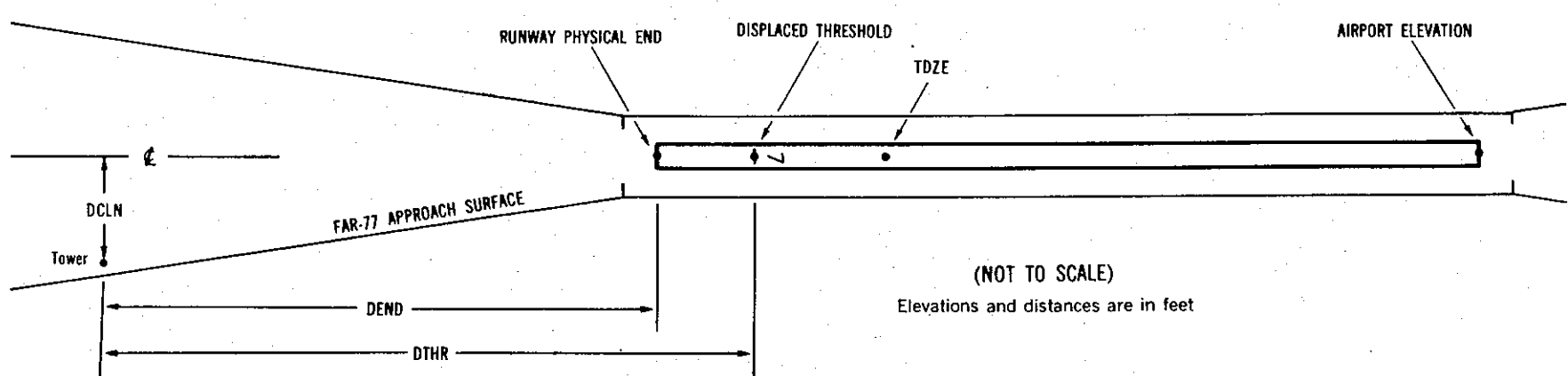
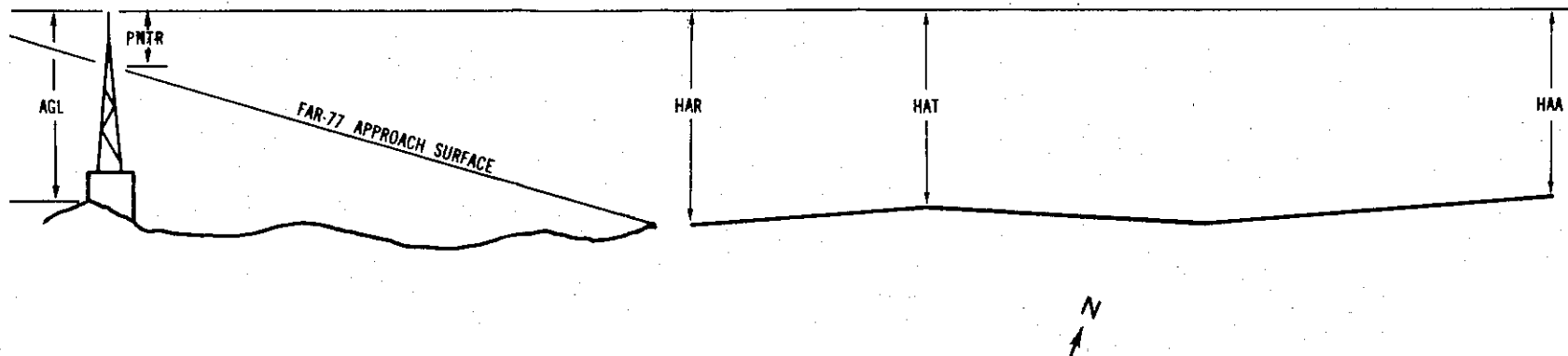
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X ¹	X ²	XXXX/XXXX ³	XXXXXX.XXX ⁴	XXXXXXXX.XXX ⁴	XXXXXXXX ⁵	XXXX/XXXX ⁶	XXXXXX.XXX ⁷	XXXXXXXX.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
XXXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXXX	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).

OC5129

AIRPORT ELEVATION 333

5 PIR 268/309 443135.232N 0694052.122W 2083433

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	443221.39	0694011.03	1A	333		65	24	0	-5529		378R	1
TREE	443216.45	0694012.92	1A	344		76	35	11	-5024		497R	15
GROUND	443210.77	0694020.43	1A	326		58	17	-7	-4259		295R	3
GROUND	443206.38	0694023.68	1A	324		56	15	-9	-3756		300R	5
LIGHTED WINDSOCK	443206.11	0694023.06	1A	350		82	41	17	-3753		353R	31
BUSH	443155.52	0694029.88	1A	311		43	2	-22	-2575		432R	9
BUSH	443150.08	0694035.08	1A	313		45	4	-20	-1911		365R	20
GROUND	443152.92	0694046.64	1A	301		33	-8	-32	-1763		508L	11
GROUND	443147.27	0694050.85	1A	291		23	-18	-42	-1115		502L	10
OL ON ANTENNA	443144.03	0694043.76	1A	284		16	-25	-49	-1072		106R	4
ANTENNA ON BUILDING	443141.25	0694043.89	1A	287		19	-22	-46	-821		232R	10
GROUND	443143.24	0694051.35	1A	282		14	-27	-51	-739		339L	6
GROUND	443141.20	0694055.47	1A	282		14	-27	-51	-415		502L	10
OL ON ANTENNA	443137.27	0694049.31	1A	275		7	-34	-58	-279		80R	4
TREE	443128.52	0694049.19	1A	277		9	-32	-56	496		512R	3
TREE	443126.50	0694051.30	1A	285		17	-24	-48	748		476R	6
POLE	443129.30	0694106.43	1A	290		22	-19	-43	1024		623L	6
TREE	443123.62	0694112.71	1A	302		34	-7	-31	1747		747L	3
TREE	443110.98	0694112.93	1A	290		22	-19	-43	2878		149L	-32

OC5129

AIRPORT ELEVATION 333

23 D 333/333 443222.925N 0694015.802W 0283459

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON ANTENNA	443137.27	0694049.31	1A	275		-58	-58	-58	-5221		80L	4
GROUND	443141.20	0694055.47	1A	282		-51	-51	-51	-5085		502R	10
GROUND	443143.24	0694051.35	1A	282		-51	-51	-51	-4761		339R	6
ANTENNA ON BUILDING	443141.25	0694043.89	1A	287		-46	-46	-46	-4679		232L	10
OL ON ANTENNA	443144.03	0694043.76	1A	284		-49	-49	-49	-4428		106L	4
GROUND	443147.27	0694050.85	1A	291		-42	-42	-42	-4385		502R	10
GROUND	443152.92	0694046.64	1A	301		-32	-32	-32	-3737		508R	11
BUSH	443150.08	0694035.08	1A	313		-20	-20	-20	-3589		365L	20
BUSH	443155.52	0694029.88	1A	311		-22	-22	-22	-2925		432L	9
LIGHTED WINDSOCK	443206.11	0694023.06	1A	350		17	17	17	-1747		353L	31
GROUND	443206.38	0694023.68	1A	324		-9	-9	-9	-1744		300L	5
GROUND	443210.77	0694020.43	1A	326		-7	-7	-7	-1241		295L	3
TREE	443216.45	0694012.92	1A	344		11	11	11	-476		497L	15
BUSH	443221.39	0694011.03	1A	333		0	0	0	29		378L	1
TREE	443225.55	0694004.79	1A	358		25	25	25	614		573L	13
TREE	443227.43	0694004.37	1A	349		16	16	16	797		509L	-2
OL LOCALIZER	443232.03	0694008.87	1A	343		10	10	10	1050		0R	-15
TREE	443236.25	0694015.33	1A	366		33	33	33	1202		615R	4

14 A(V) 308/ 443206.984N 0694046.029W 3051423

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	443154.10	0694017.13	1A	302		-6		-31	-2462		143L	3
BUSH	443152.08	0694019.18	1A	302		-6		-31	-2459		110R	3
TREE	443208.33	0694050.69	1A	314		6		-19	355		83R	-2
TREE	443209.51	0694054.26	1A	340		32		7	635		135R	10
TREE	443217.90	0694111.10	1A	419		111		86	2121		145R	15
TREE	443226.02	0694118.09	1A	461		153		128	3009		235L	13
TREE	443227.15	0694124.82	1A	462		154		129	3473		47L	-10
TREE	443229.93	0694142.79	1A	501		193		168	4698		474R	-32

OC5129

AIRPORT ELEVATION 333

32 A(V) 299/ 443153.878N 0694020.098W 1251441

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	443152.08	0694019.18	1A	302		3		-31	159		110L	3
BUSH	443154.10	0694017.13	1A	302		3		-31	162		143R	3
BUSH	443151.64	0694017.92	1A	300		1		-33	259		94L	-2
TREE	443148.81	0694013.46	1A	304		5		-29	689		141L	-19

OC5129

AIRPORT ELEVATION 333

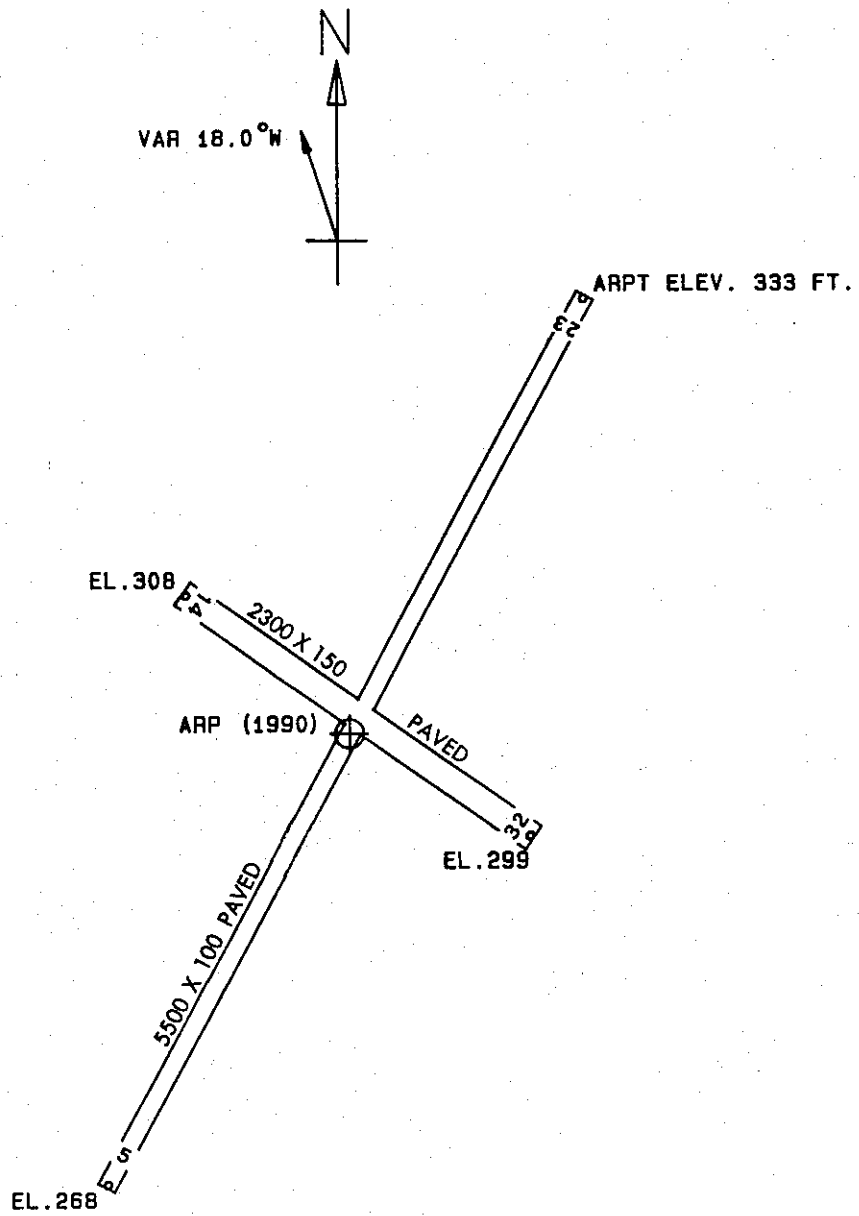
ARP 443159.478N 0694033.698W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	443157.60	0694020.50	1A	333		0	119 13	975
TREE	443152.28	0694023.92	1A	322		-11	153 50	1016
TREE	443200.10	0694018.74	1A	383		50	104 40	1085
TREE	443148.82	0694028.29	1A	347		14	178 3	1148
TREE	443203.47	0694048.75	1A	354		21	308 21	1163
FLOODLIGHT	443212.18	0694033.29	1A	339		6	19 18	1286
TREE	443153.72	0694050.06	1A	360		27	261 47	1321
TREE	443150.28	0694019.99	1A	333		0	151 11	1362
TREE	443213.22	0694033.08	1A	357		24	19 50	1393
TREE	443154.90	0694015.04	1A	333		0	126 57	1429
TREE	443148.68	0694020.75	1A	351		18	157 23	1441
TREE	443206.86	0694016.04	1A	382		49	77 41	1482
TREE	443156.56	0694013.21	1A	371		38	119 15	1513
TREE	443210.78	0694047.60	1A	357		24	336 39	1525
TREE	443149.47	0694017.55	1A	327		-6	148 54	1547
TREE	443212.24	0694050.82	1A	334		1	334 11	1791
TREE	443218.21	0694030.67	1A	378		45	24 35	1910
ROD ON OL AIRPORT BEACON	443219.06	0694029.74	1A	410		77	26 13	2004
TREE	443142.71	0694058.99	1A	345		12	245 10	2498
TREE	443224.85	0694027.30	1A	370		37	28 13	2611
TREE	443219.63	0694005.63	1A	375		42	62 53	2880
TREE	443129.63	0694044.08	1A	307		-26	211 59	3114
TREE	443223.77	0694005.15	1A	368		35	58 3	3214
TREE	443136.02	0694104.17	1A	330		-3	240 54	3243
TREE	443230.46	0694021.76	1A	362		29	33 24	3255
TREE	443132.55	0694106.03	1A	311		-22	238 40	3595
TREE	443234.62	0694019.20	1A	376		43	34 27	3710
TREE	443127.18	0694109.19	1A	299		-34	236 10	4161
ANTENNA	443234.26	0694107.75	1B	473		140	343 0	4300
WATER TANK	443232.89	0694121.60	1B	477		144	332 17	4847
TREE	443238.94	0694122.39	1B	486		153	336 34	5330
TREE	443222.21	0694140.67	1B	484		151	313 23	5370
TREE	443251.76	0694125.54	1B	491		158	342 40	6491

AIRPORT ELEVATION 333

ARP 443159.478N 0694033.698W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
TREE	443235.60	0694153.56	1B	483		150	320 19	6844
TREE	443232.49	0694201.69	1B	492		159	315 41	7197
TREE	443317.40	0693956.01	1A	425		92	37 5	8350
TREE	443158.87	0694257.28	1B	493		160	287 40	10401
TREE	443158.35	0694307.06	1B	503		170	287 26	11110
WIND VANE ON SPIRE	443350.45	0693948.76	1B	481		148	34 9	11700



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
5	309
23	333

WATERVILLE ROBERT LAFLEUR AIRPORT
 WATERVILLE, MAINE
 (NOT TO SCALE)