OBSTRUCTION DATA SHEET

ODS 39
BANGOR INTERNATIONAL AIRPORT
BANGOR, MAINE

DIGITIZED FROM

OC 39
SURVEYED JUNE 1993
9TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29

PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

ATTENTION

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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).

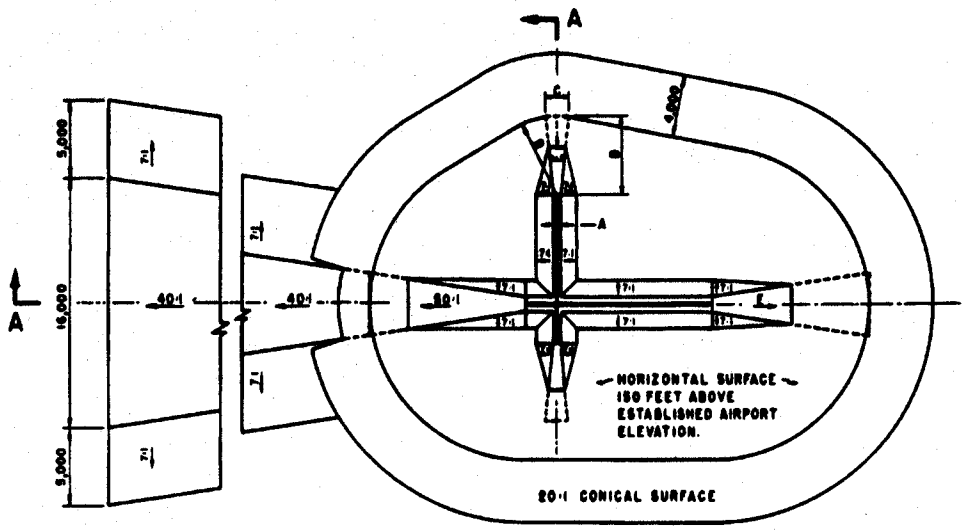
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

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:

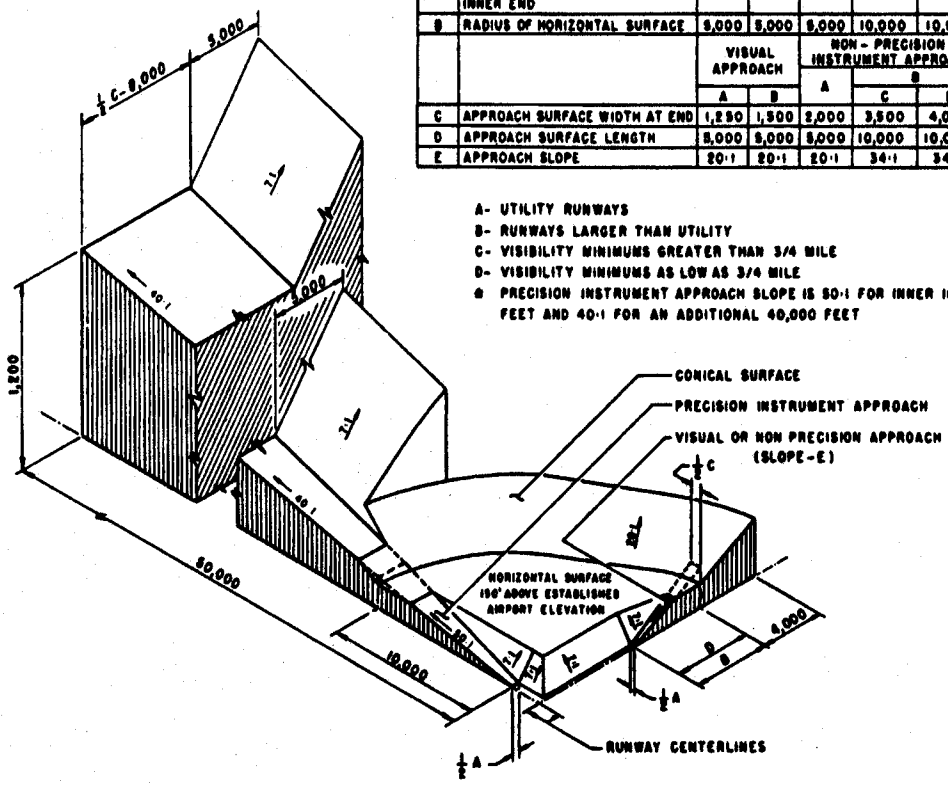
A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D ..... Nonutility runway- nonprecision 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		
					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
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	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	*
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]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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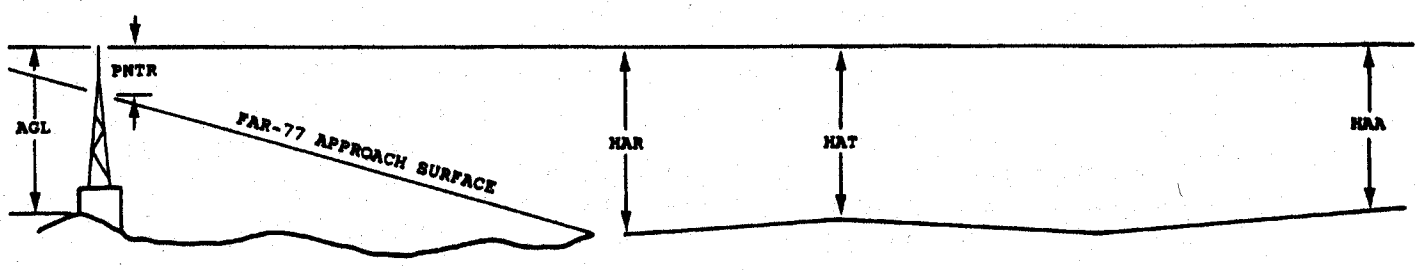
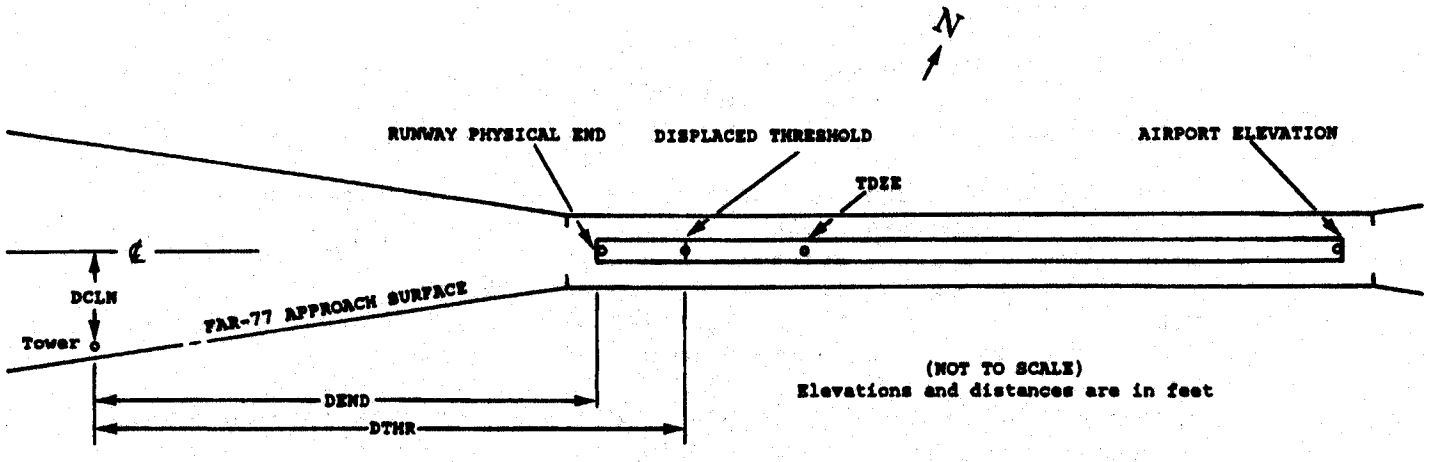




EXPLANATION OF FOOTNOTES

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 displaced threshold

8 Accuracy codes:

Horizontal(Ft.)	Vertical(Ft.)
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 <u>appearing on the OC</u> 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 displaced 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 PNTR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0039

AIRPORT ELEVATION 192

15 PIR 192/ 192 444906.139 -685038.141 1341020.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
WSK	444752.89	-684845.11	1A	162		-30	-30	-30	-11013		360L	1
ROD ON OL TMOM	444755.75	-684848.46	1A	171		-21	-21	-21	-10638		399L	13
ROD ON OL TMOM	444757.89	-684850.29	1A	171		-21	-21	-21	-10393		462L	14
OL ON GS	444753.71	-684859.70	1A	192		0	0	0	-10200		314R	36
GROUND	444816.54	-684936.26	1A	170		-22	-22	-22	-6699		493R	5
ROD ON OL TMOM	444829.61	-684937.39	1A	185		-7	-7	-7	-5718		399L	15
ROD ON OL TMOM	444831.75	-684939.21	1A	185		-7	-7	-7	-5473		463L	13
BUSH	444833.50	-684959.66	1A	190		-2	-2	-2	-4293		438R	11
GROUND	444847.92	-685001.89	1A	190		-2	-2	-2	-3159		498L	5
OL ON POLE	444852.23	-685009.01	1A	199		7	7	7	-2487		453L	11
ROD ON OL TMOM	444859.42	-685019.98	1A	207		15	15	15	-1413		424L	17
ROD ON OL TMOM	444901.55	-685021.81	1A	207		15	15	15	-1168		487L	17
ROD ON OL GS	444902.18	-685022.47	1A	238		46	46	46	-1090		500L	48
LOC	444912.97	-685048.00	1A	189		-3	-3	-3	992		1L	-19
TREE	444932.25	-685104.40	1A	243		51	51	51	3200		578L	-9
TREE	444934.09	-685101.98	1A	247		55	55	55	3205		833L	-5
TREE	445009.79	-685239.43	1A	405		213	213	213	10761		1465R	-1
TREE	445022.80	-685227.84	1A	398		206	206	206	11080		62L	-16
VORTAC	445030.47	-685226.26	1A	399		207	207	207	11539		699L	-27

OC0039

AIRPORT ELEVATION 192

33 PIR 163/ 163 444747.421 -684844.367 3141141.

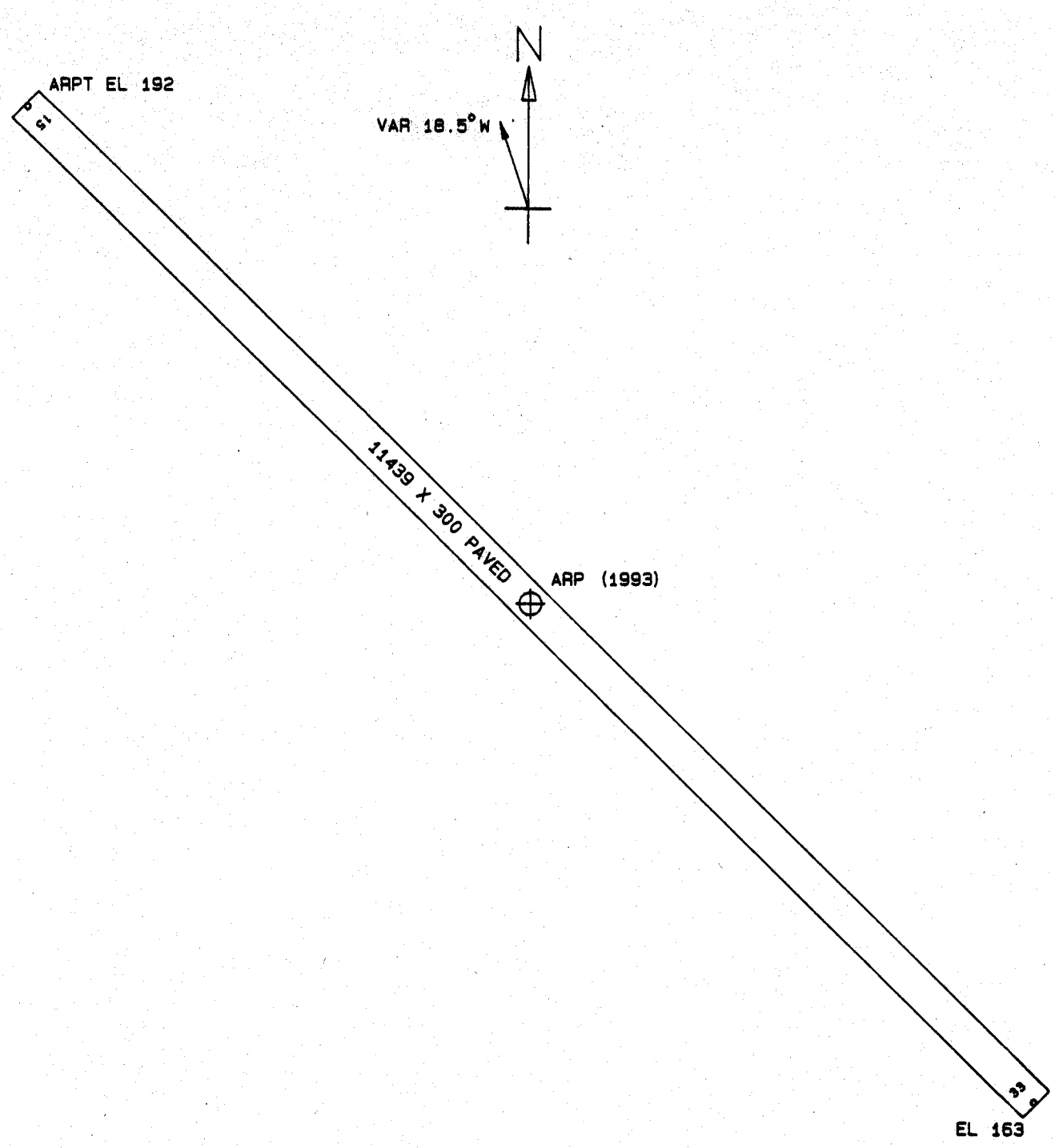
OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	444902.18	-685022.47	1A	238		75	75	46	-10348		500R	48
ROD ON OL TMOM	444901.55	-685021.81	1A	207		44	44	15	-10269		487R	17
ROD ON OL TMOM	444859.42	-685019.98	1A	207		44	44	15	-10024		424R	17
OL ON POLE	444852.23	-685009.01	1A	199		36	36	7	-8950		453R	11
GROUND	444847.92	-685001.89	1A	190		27	27	-2	-8278		498R	5
BUSH	444833.50	-684959.66	1A	190		27	27	-2	-7145		438L	11
ROD ON OL TMOM	444831.75	-684939.21	1A	185		22	22	-7	-5964		463R	13
ROD ON OL TMOM	444829.61	-684937.39	1A	185		22	22	-7	-5719		399R	15
GROUND	444816.54	-684936.26	1A	170		7	7	-22	-4738		493L	5
OL ON GS	444753.71	-684859.70	1A	192		29	29	0	-1237		314L	36
ROD ON OL TMOM	444757.89	-684850.29	1A	171		8	8	-21	-1045		462R	14
ROD ON OL TMOM	444755.75	-684848.46	1A	171		8	8	-21	-800		399R	13
WSK	444752.89	-684845.11	1A	162		-1	-1	-30	-425		360R	1
OL ON LOC	444741.09	-684835.22	1A	164		1	1	-28	920		0R	-14
TREE	444732.62	-684836.32	1A	188		25	25	-4	1461		671L	0
TREE	444738.71	-684822.46	1A	193		30	30	1	1748		468R	-1
TREE	444736.68	-684815.97	1A	213		50	50	21	2226		648R	9
TREE	444734.24	-684817.66	1A	207		44	44	15	2311		385R	2
TREE	444727.37	-684814.70	1A	216		53	53	24	2949		35R	-2
TREE	444730.93	-684806.39	1A	234		71	71	42	3127		712R	12
TREE	444724.44	-684808.88	1A	223		60	60	31	3457		115R	-5
TREE	444727.19	-684804.56	1A	231		68	68	39	3486		532R	2

OC0039

AIRPORT ELEVATION 192

ARP 444826.784 -684941.244

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
BUSH	444825.05	-684949.18	1A	177		-15	27127	598
ROD ON OL AMOM	444831.86	-684934.44	1A	196		4	6208	710
OL ON LTD WSK ON BLDG	444833.04	-684933.63	1A	194		2	5926	838
GROUND	444816.46	-684936.32	1A	170		-22	17944	1104
GROUND	444812.66	-684931.86	1A	176		-16	17311	1582
TREE	444832.51	-685003.99	1A	226		34	30759	1739
TREE	444809.93	-684932.92	1A	219		27	17907	1809
ANT ON OL ATCT	444844.02	-684932.18	1A	301		109	3900	1864
TREE	444801.02	-684938.13	1A	328		136	19335	2619
TREE	444803.16	-684924.03	1A	220		28	17104	2695
ROD ON ASR	444822.44	-685020.20	1A	291		99	27935	2842
TREE	444846.38	-685024.37	1A	241		49	32103	3688
TREE	444855.56	-685034.37	1A	219		27	32546	4813
BUSH	444739.85	-684844.84	1A	186		-6	15756	6255
ROD AND APBN ON TANK	444813.84	-684816.16	1A	327		135	12033	6272
TREE	444919.91	-685039.09	1A	263		71	34043	6806
TREE	444733.70	-684838.47	1A	184		-8	15823	7027
TREE	444921.46	-685042.22	1A	248		56	34003	7069
TREE	444728.81	-684835.79	1A	209		17	15941	7532
TREE	444738.99	-684808.45	1A	266		74	14422	8257
TREE	444732.97	-684803.93	1A	260		68	14619	8884
FLGPL ON OL TANK	444826.76	-684658.37	1A	365		173	10829	11742
ROD ON OL TWR	444947.02	-684700.08	1A	633	392	441	7330	14176



TOUCHDOWN ZONE RUNWAY	ELEVATION
15	192
33	163

BANGOR INTERNATIONAL AIRPORT

BANGOR, MAINE

(NOT TO SCALE)

(ELEVATIONS AND DISTANCES IN FEET)