

# OBSTRUCTION DATA SHEET

ODS 5328  
EUGENIO MARIA DE HOSTOS AIRPORT  
MAYAGUEZ, PUERTO RICO

DIGITIZED FROM

OC 5328  
SURVEYED MARCH 1993  
6TH EDITION

HORIZONTAL DATUM NAD 83  
VERTICAL DATUM MEAN SEA LEVEL



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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.

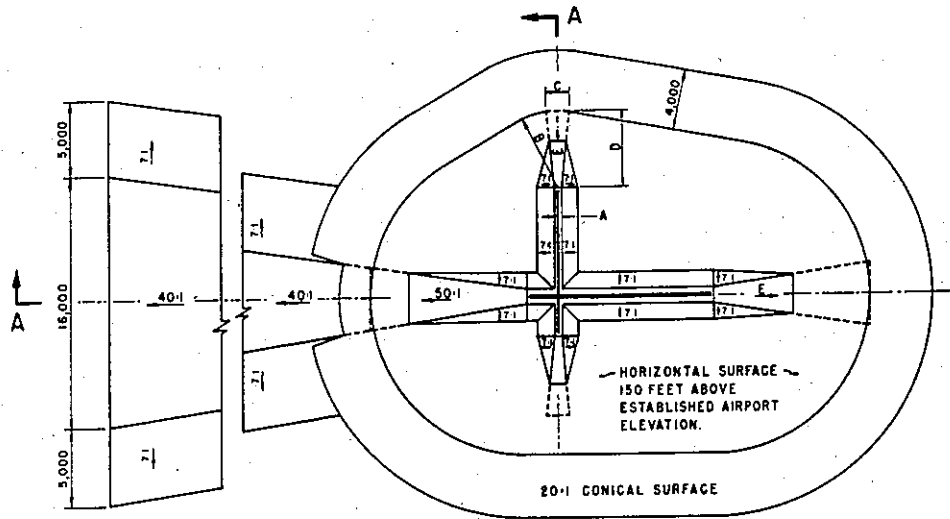
ODS information is arranged as follows:

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:

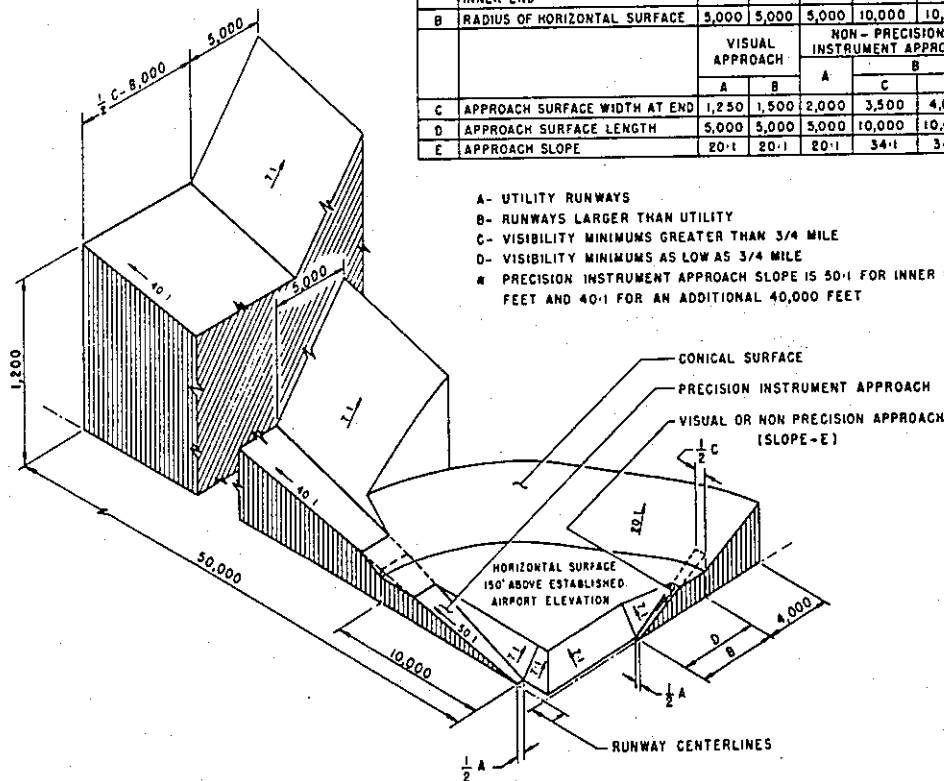
- A(V) .... Utility runway - visual approach only
- A(NP) ... Utility runway - nonprecision instrument approach
- B(V) ..... Nonutility runway - visual approach only
- C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D ..... Nonutility runway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

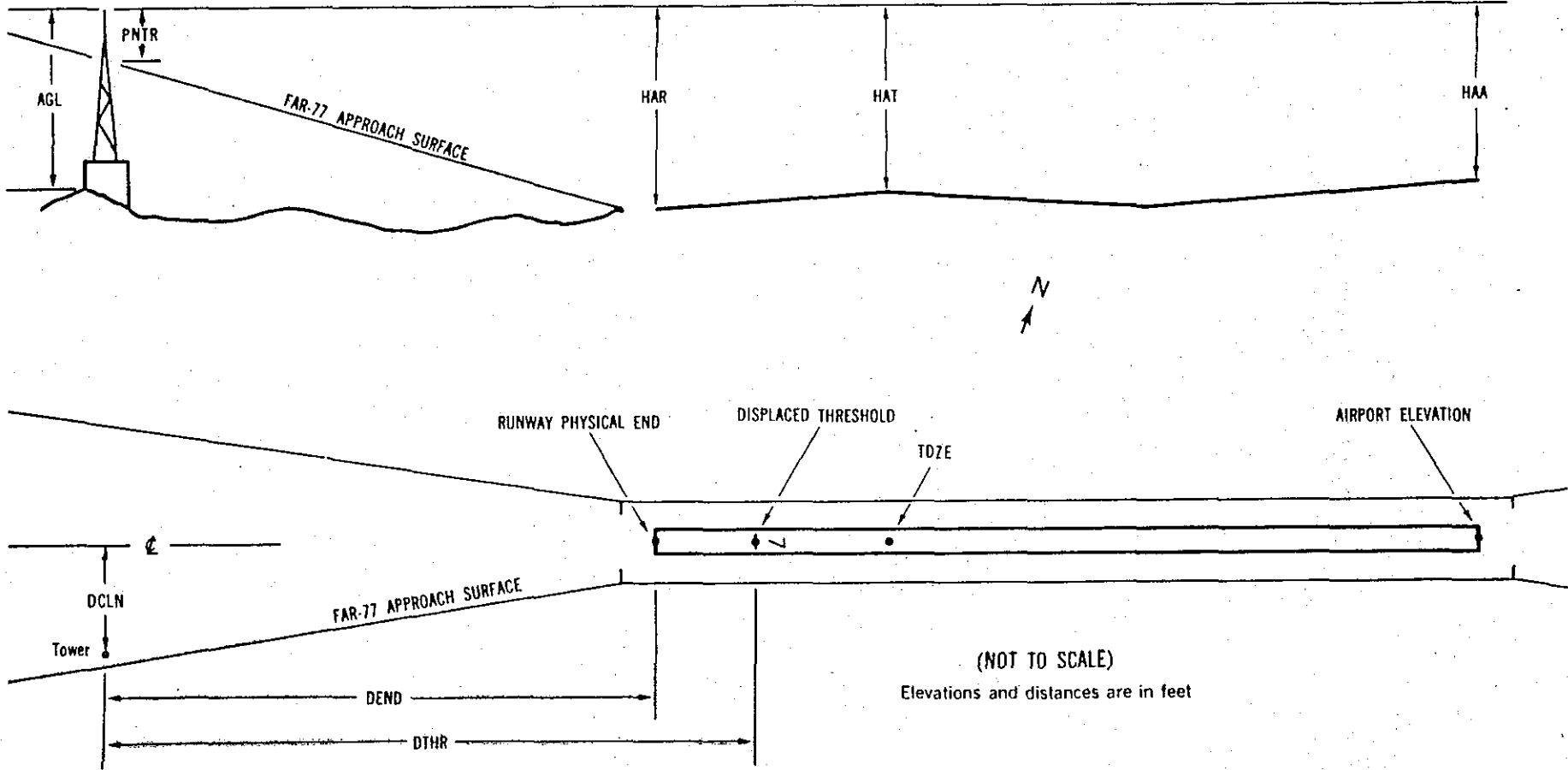
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X <sup>1</sup>	X <sup>2</sup>	XXXX/XXXX <sup>3</sup>	XXXXXX.XXX <sup>4</sup>	XXXXXX.XXX <sup>4</sup>	XXXXXX <sup>5</sup>	XXXX/XXXX <sup>6</sup>	XXXXXX.XXX <sup>7</sup>	XXXXXX.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	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXXXX.XXX	XXXXXXXX.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 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 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).

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AIRPORT ELEVATION 29

9 C 16/ 29 181514.644 -670919.719 763003.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	181527.81	-670829.73	1A	27		11	-2	-2	-4994		167L	2
TREE	181523.86	-670829.44	1A	66		50	37	37	-4928		227R	41
TREE	181522.94	-670833.70	1A	52		36	23	23	-4508		221R	26
TREE	181527.09	-670835.26	1A	43		27	14	14	-4459		220L	17
TREE	181526.08	-670839.69	1A	44		28	15	15	-4020		222L	17
TREE	181525.77	-670841.92	1A	39		23	10	10	-3804		241L	11
BUSH	181521.06	-670841.83	1A	35		19	6	6	-3702		223R	7
GROUND	181523.27	-670847.02	1A	31		15	2	2	-3267		111L	2
GROUND	181522.63	-670849.87	1A	30		14	1	1	-2985		112L	1
GROUND	181521.25	-670856.33	1A	27		11	-2	-2	-2347		122L	1
GROUND	181519.96	-670901.37	1A	24		8	-5	-5	-1845		108L	1
BUSH	181512.44	-670920.27	1A	24		8	-5	-5	104		203R	7
BUSH	181515.18	-670921.14	1A	30		14	1	1	121		84L	13
BUSH	181512.75	-670922.66	1A	28		12	-1	-1	320		120R	8
TREE	181515.82	-670926.95	1A	61		45	32	32	650		278L	31
TREE	181514.53	-670930.02	1A	72		56	43	43	968		220L	33
TREE	181508.63	-670930.11	1A	59		43	30	30	1115		356R	16
TREE	181507.42	-670935.02	1A	63		47	34	34	1604		364R	5
ROD ON OL POLE	181512.15	-670937.09	1A	57		41	28	28	1687		146L	-3
ROD ON OL POLE	181510.07	-670937.27	1A	60		44	31	31	1752		53R	-2
ROD ON POLE	181507.08	-670936.70	1A	60		44	31	31	1769		359R	-3
TREE	181513.85	-670938.99	1A	78		62	49	49	1824		356L	14

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AIRPORT ELEVATION 29

27 SUPLC 25/ 29 181526.210 -670829.284 2563019.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	181515.18	-670921.14	1A	30		5	1	1	-5119		84R	13
BUSH	181512.44	-670920.27	1A	24		-1	-5	-5	-5103		203L	7
GROUND	181519.96	-670901.37	1A	24		-1	-5	-5	-3154		108R	1
GROUND	181521.25	-670856.33	1A	27		2	-2	-2	-2651		122R	1
GROUND	181522.63	-670849.87	1A	30		5	1	1	-2013		112R	1
GROUND	181523.27	-670847.02	1A	31		6	2	2	-1731		111R	2
BUSH	181521.06	-670841.83	1A	35		10	6	6	-1297		223L	7
TREE	181525.77	-670841.92	1A	39		14	10	10	-1194		241R	11
TREE	181526.08	-670839.69	1A	44		19	15	15	-979		222R	17
TREE	181527.09	-670835.26	1A	43		18	14	14	-540		220R	17
TREE	181522.94	-670833.70	1A	52		27	23	23	-490		221L	26
TREE	181523.86	-670829.44	1A	66		41	37	37	-70		227L	41
GROUND	181527.81	-670829.73	1A	27		2	-2	-2	-4		167R	2
TREE	181524.47	-670826.37	1A	76		51	47	47	232		236L	50
GROUND	181528.57	-670826.55	1A	29		4	0	0	312		170R	1
TREE	181527.57	-670825.21	1A	48		23	19	19	413		42R	17
TREE	181530.38	-670822.77	1A	58		33	29	29	709		263R	18
TREE	181525.63	-670818.89	1A	99		74	70	70	960		290L	52
TREE	181530.66	-670818.16	1A	74		49	45	45	1147		187R	21
TREE	181528.19	-670816.87	1A	83		58	54	54	1209		85L	28
TREE	181527.92	-670809.11	1A	87		62	58	58	1931		286L	11
TREE	181534.73	-670808.00	1A	109		84	80	80	2195		357R	25
TREE	181545.97	-670715.55	1A	265		240	236	236	7375		280R	29
TREE	181539.38	-670709.34	1A	259		234	230	230	7802		505L	11
TREE	181553.79	-670710.42	1A	317		292	288	288	8040		932R	62
TRMSN TWR	181540.99	-670659.88	1A	324		299	295	295	8726		561L	48
TREE	181551.03	-670702.39	1A	313		288	284	284	8727		481R	37
TREE	181547.08	-670659.90	1A	308		283	279	279	8868		38R	28
TREE	181539.37	-670647.93	1A	333		308	304	304	9808		988L	26



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AIRPORT ELEVATION 29

ARP	181520.428	-670854.502							
OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE	
GROUND	181518.40	-670851.52	1A	30		1	13622	353	
ANT ON OL BLDG	181513.48	-670854.57	1A	99		70	19131	701	
TREE	181516.90	-670847.68	1A	92		63	12926	748	
GROUND	181519.62	-670845.80	1A	30		1	10634	842	
VOR/DME	181523.19	-670903.71	1A	52		23	29825	930	
ANT AND AMOM ON BLDG	181514.08	-670901.88	1A	71		42	23900	957	
OL ON LTD WSK	181521.11	-670904.42	1A	51		22	28507	958	
TREE	181520.64	-670840.84	1A	45		16	10002	1317	
POLE	181513.17	-670906.14	1A	51		22	24751	1339	
OL ON APBN	181509.86	-670905.28	1A	79		50	23515	1488	
TREE	181526.46	-670840.14	1A	49		20	7714	1512	
TREE	181521.46	-670836.51	1A	53		24	9732	1737	
TREE	181529.26	-670836.15	1A	64		35	7415	1981	
TREE	181511.59	-670912.94	1A	41		12	25421	1988	
TREE	181528.35	-670833.56	1A	46		17	7923	2171	
TREE	181518.19	-670918.96	1A	79		50	27531	2368	
ELEC EQUIP	181512.15	-670919.30	1A	24		-5	26144	2532	
TREE	181510.07	-670919.18	1A	61		32	25717	2597	
TREE	181523.47	-670827.60	1A	74		45	9415	2611	
TREE	181530.34	-670828.42	1A	73		44	7918	2705	
TREE	181522.81	-670826.05	1A	90		61	9559	2752	
TREE	181530.94	-670826.02	1A	63		34	7953	2943	
TREE	181524.11	-670823.95	1A	89		60	9348	2967	
TREE	181516.62	-670925.57	1A	64		35	27341	3019	
TREE	181508.34	-670926.35	1A	72		43	25920	3303	
TREE	181533.46	-670820.09	1A	97		68	7922	3567	
TREE	181431.35	-670837.32	1C	189		160	17230	5220	
TREE	181417.02	-670854.46	1A	243		214	19057	6396	
TRMSN POLE	181415.79	-670850.84	1B	254		225	18753	6529	
TREE	181418.21	-670915.10	1A	194		165	20833	6583	
STACK	181620.80	-670926.47	1B	200		171	34410	6825	

## AIRPORT ELEVATION 29

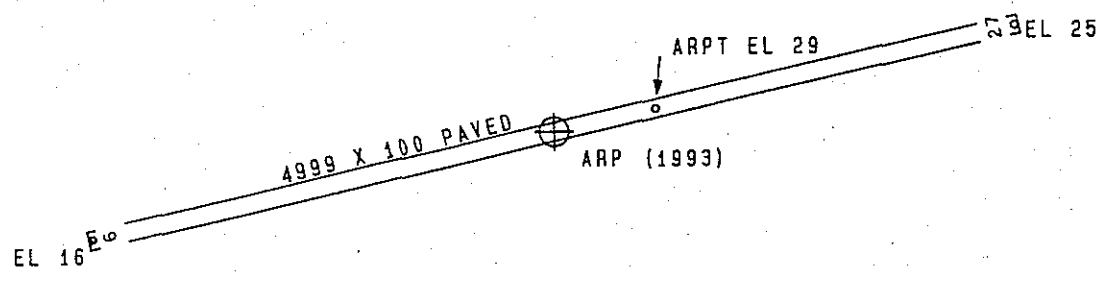
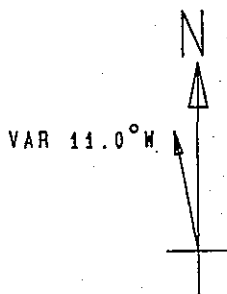
ARP	181520.428	-670854.502							
OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE	
TREE	181413.07	-670915.46	1B	205		176	20733	7088	
OL ON BLDG	181410.26	-670911.51	1B	222		193	20402	7265	
TREE	181510.59	-670729.48	1A	230		201	10753	8254	
TREE	181452.21	-670733.74	1A	218		189	12104	8287	
TRMSN TWR	181522.43	-670727.43	1A	172		143	9937	8394	
TREE	181409.94	-670942.18	1B	172		143	22352	8466	
TRMSN POLE	181354.40	-670907.52	1B	283		254	19913	8767	
TREE	181511.19	-670723.46	1A	253		224	10703	8824	
TREE	181410.87	-670756.65	1A	358		329	15231	8962	
TREE	181350.91	-670852.85	1A	327		298	18959	9031	
TREE	181523.87	-670716.54	1A	206		177	9853	9448	
TREE	181502.09	-670715.01	1A	339		310	11154	9766	
TREE	181601.03	-670720.50	1A	277		248	7640	9942	
TREE	181345.88	-670812.73	1A	400		371	16806	10352	
TRMSN TWR	181338.75	-670916.21	1B	299		270	20231	10467	
TREE	181452.39	-670708.89	1A	350		321	11631	10564	
TREE	181419.00	-670724.65	1A	285		256	13634	10648	
TREE	181345.23	-670759.70	1A	453		424	16211	10959	
POLE	181329.22	-670849.38	2C	327		298	18828	11228	
TREE	181523.24	-670655.13	1A	296		267	9935	11508	
TRMSN TWR	181321.97	-670926.20	2C	316		287	20520	12333	
OL ON BLDG	181317.23	-670920.37	1A	335		306	20220	12674	
TREE	181322.17	-670939.19	1A	328		299	21051	12682	
TREE	181324.86	-670948.44	2C	291		262	21502	12764	
ANT	181318.70	-670932.58	2C	333		304	20738	12815	
TREE	181326.63	-670746.25	2C	402		373	16110	13230	
POLE	181339.04	-670719.54	2C	319		290	14910	13724	
TREE	181422.46	-670644.08	2C	630		601	12556	13863	
TREE	181538.68	-670630.24	1A	372		343	9326	14024	
TREE	181353.58	-670654.40	2C	439		410	13806	14516	
TREE	181627.42	-670640.19	2C	305		276	7325	14601	

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Continued from previous page

AIRPORT ELEVATION 29

ARP	181520.428	-670854.502							
OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE	
TREE	181607.35	-670630.24	1C	295		266	8211	14686	
TREE	181510.18	-670622.15	2C	600		571	10501	14720	
TREE	181352.76	-670642.57	2C	632		603	13548	15488	
TREE	181548.53	-670606.78	1C	430		401	9102	16410	



TOUCHDOWN ZONE	
RUNWAY ELEVATION	
9	29
27	29

EUGENIO MARIA DE HOSTOS AIRPORT  
MAYAGUEZ, PUERTO RICO  
(NOT TO SCALE)  
(ELEVATIONS AND DISTANCES IN FEET)