

# OBSTRUCTION DATA SHEET

**ODS 34  
JACK McNAMARA FIELD  
CRESCENT CITY, CALIFORNIA**

**DIGITIZED FROM**

**OC 34  
SURVEYED APRIL 1992  
9TH 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.

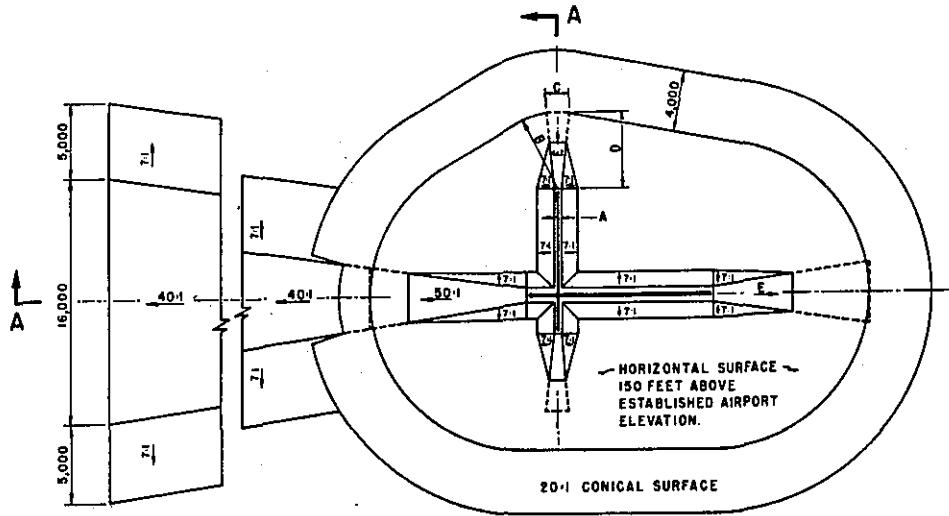
ODS information is arranged as follows:

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:

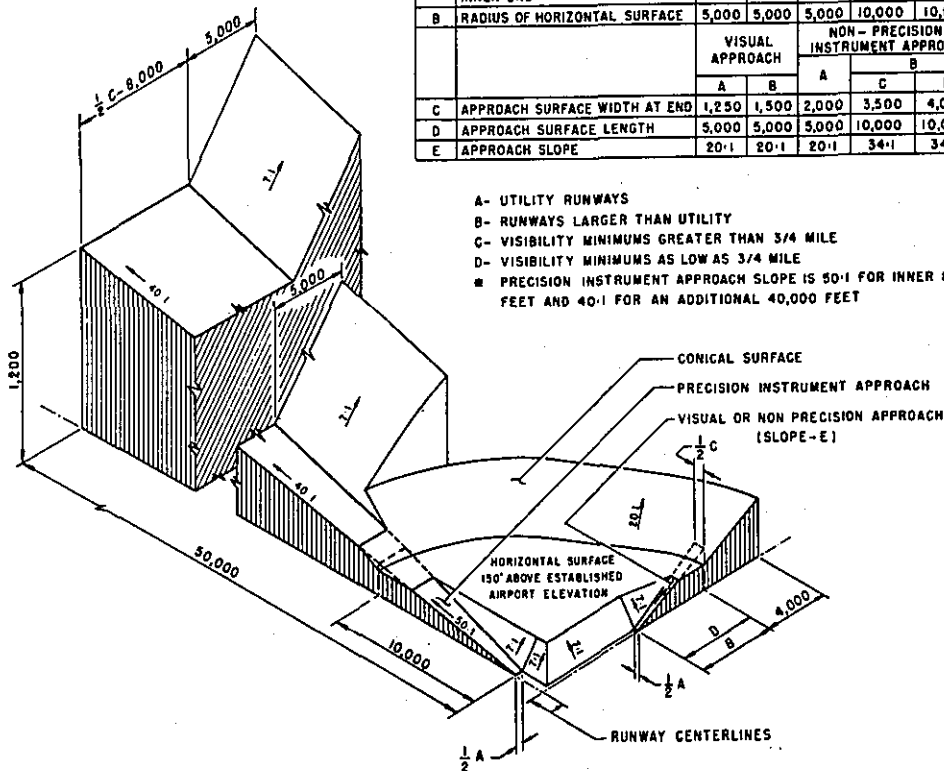
A(V) ..... Utility runway - visual approach only  
A(NP) .... Utility runway - nonprecision instrument approach  
B(V) ..... Nonutility runway - visual approach only  
C ..... Nonutility runway - nonprecision instrument  
approach with visibility minimums greater than  
3/4 mile  
D ..... Nonutility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

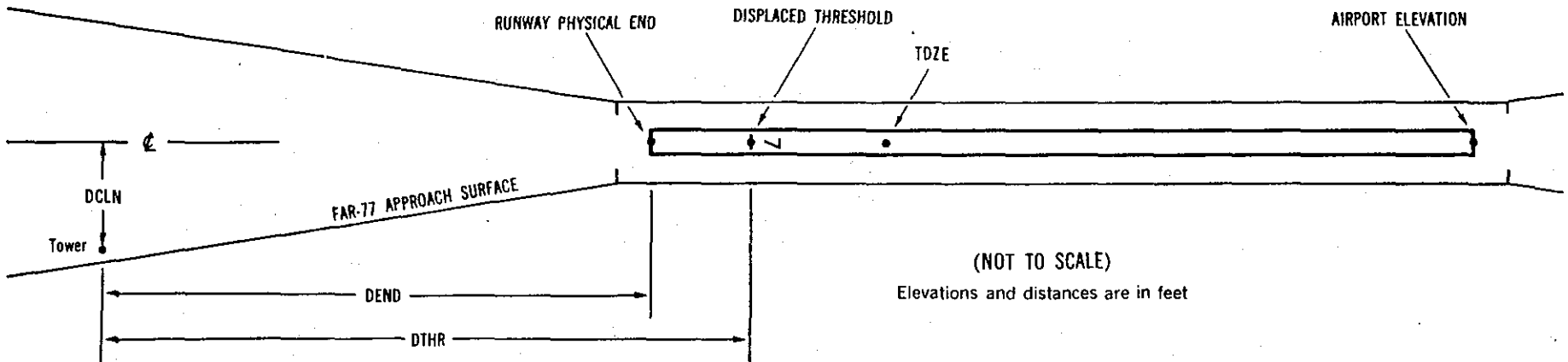
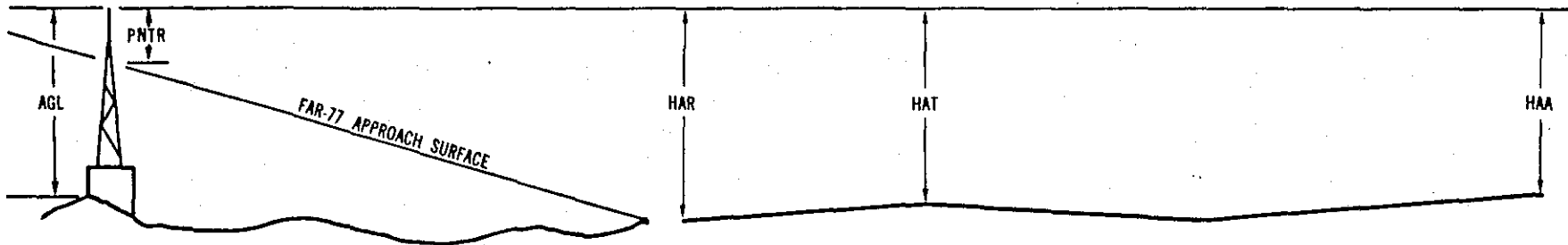
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X <sup>1</sup>	X <sup>2</sup>	XXXX/XXXX <sup>3</sup>	XXXXXX.XXX <sup>4</sup>	XXXXXXX.XXX <sup>4</sup>	XXXXXXX <sup>5</sup>	XXXX/XXXX <sup>6</sup>	XXXXXX.XXX <sup>7</sup>	XXXXXXX.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>
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

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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           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 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 PTNR - Penetration of indicated FAR-77 approach or primary surface (See footnote 2).

OC0034

AIRPORT ELEVATION 57

11 PIR 53/ 57 414705.937 -1241429.566 1331038.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	414628.83	-1241342.49	1A	77		24	20	20	-5171		299R	27
TREE	414633.84	-1241337.63	1A	82		29	25	25	-5093		324L	32
TREE	414630.89	-1241343.96	1A	62		9	5	5	-4947		222R	12
TREE	414635.46	-1241340.15	1A	81		28	24	24	-4841		312L	31
TREE	414637.73	-1241343.66	1A	81		28	24	24	-4490		298L	30
TREE	414646.19	-1241354.43	1A	101		48	44	44	-3309		364L	48
TREE	414649.98	-1241401.37	1A	77		24	20	20	-2663		284L	22
TREE	414655.20	-1241404.90	1A	77		24	20	20	-2107		486L	21
TREE	414654.56	-1241407.67	1A	68		15	11	11	-1998		295L	12
BUSH	414655.36	-1241417.75	1A	62		9	5	5	-1385		168R	5
WINDSOCK	414659.71	-1241416.53	1A	74		21	17	17	-1151		216L	18
OL ON GLIDE SLOPE	414701.36	-1241417.27	1A	86		33	29	29	-997		299L	30
GROUND	414702.35	-1241426.89	1A	56		3	-1	-1	-397		126R	1
FENCE	414705.49	-1241432.32	1A	56		3	-1	-1	121		176R	2
BUSH	414703.85	-1241435.15	1A	63		10	6	6	164		444R	10
GROUND	414708.38	-1241430.10	1A	55		2	-2	-2	199		152L	2
BUSH	414706.19	-1241433.70	1A	61		8	4	4	246		196R	7
BUSH	414705.82	-1241435.54	1A	61		8	4	4	322		318R	5
BUSH	414707.72	-1241434.70	1A	60		7	3	3	407		134R	2

OC0034

AIRPORT ELEVATION 57

29 SUPLC 50/ 56 414632.119 -1241341.423 3131110.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	414708.38	-1241430.10	1A	55		5	-1	-2	-5201		152R	2
BUSH	414703.85	-1241435.15	1A	63		13	7	6	-5166		444L	10
FENCE	414705.49	-1241432.32	1A	56		6	0	-1	-5123		176L	2
GROUND	414702.35	-1241426.89	1A	56		6	0	-1	-4606		126L	1
OL ON GLIDE SLOPE	414701.36	-1241417.27	1A	86		36	30	29	-4006		299R	30
WINDSOCK	414659.71	-1241416.53	1A	74		24	18	17	-3851		216R	18
BUSH	414655.36	-1241417.75	1A	62		12	6	5	-3617		168L	5
TREE	414654.56	-1241407.67	1A	68		18	12	11	-3005		295R	12
TREE	414655.20	-1241404.90	1A	77		27	21	20	-2896		486R	21
TREE	414649.98	-1241401.37	1A	77		27	21	20	-2340		284R	22
TREE	414646.19	-1241354.43	1A	101		51	45	44	-1693		364R	48
TREE	414637.73	-1241343.66	1A	81		31	25	24	-512		298R	30
TREE	414635.46	-1241340.15	1A	81		31	25	24	-161		312R	31
TREE	414630.89	-1241343.96	1A	62		12	6	5	-56		222L	12
TREE	414633.84	-1241337.63	1A	82		32	26	25	91		324R	32
TREE	414628.83	-1241342.49	1A	77		27	21	20	169		299L	27
TREE	414632.36	-1241336.59	1A	77		27	21	20	250		269R	26
TREE	414626.33	-1241342.35	1A	116		66	60	59	350		475L	62
TREE	414624.94	-1241338.64	1A	103		53	47	46	651		385L	40
TREE	414628.24	-1241330.36	1A	82		32	26	25	880		288R	12
TREE	414623.47	-1241324.50	1A	136		86	80	79	1534		239R	47
TREE	414618.61	-1241330.54	1A	140		90	84	83	1537		433L	51
TREE	414619.72	-1241326.05	1A	136		86	80	79	1708		118L	42
TREE	414620.20	-1241313.88	1A	148		98	92	91	2347		549R	35
TREE	414612.97	-1241316.49	1A	141		91	85	84	2704		120L	18



OC0034

AIRPORT ELEVATION 57

35 C 47/ 56 414624.049 -1241425.079 131111.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	414713.37	-1241412.44	1A	77		30	21	20	-5079		207L	20
BUSH	414703.01	-1241414.97	1A	63		16	7	6	-4015		154L	6
WINDSOCK	414659.71	-1241416.53	1A	74		27	18	17	-3662		193L	17
BUSH	414655.36	-1241417.75	1A	62		15	6	5	-3213		183L	5
FENCE	414650.65	-1241419.00	1A	58		11	2	1	-2726		166L	3
BUSH	414644.09	-1241421.18	1A	60		13	4	3	-2043		175L	7
BUSH	414636.45	-1241423.13	1A	60		13	4	3	-1255		142L	9
BUSH	414634.29	-1241424.99	1A	66		19	10	9	-1011		230L	15
BUSH	414624.09	-1241428.16	1A	52		5	-4	-5	49		228L	4
BUSH	414621.65	-1241427.87	1A	56		9	0	-1	284		150L	6
ROAD (N)	414620.66	-1241426.02	1A	56		9	0	-1	350		9R	4

OC0034

AIRPORT ELEVATION 57

17 SUPLC 57/ 57 414712.162 -1241410.017 1931121.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	414624.09	-1241428.16	1A	52		-5	-5	-5	-5051		228R	4
BUSH	414634.29	-1241424.99	1A	66		9	9	9	-3992		230R	15
BUSH	414636.45	-1241423.13	1A	60		3	3	3	-3747		142R	9
BUSH	414644.09	-1241421.18	1A	60		3	3	3	-2959		175R	7
FENCE	414650.65	-1241419.00	1A	58		1	1	1	-2276		166R	3
BUSH	414655.36	-1241417.75	1A	62		5	5	5	-1789		183R	5
WINDSOCK	414659.71	-1241416.53	1A	74		17	17	17	-1340		193R	17
BUSH	414703.01	-1241414.97	1A	63		6	6	6	-987		154R	6
BUSH	414713.37	-1241412.44	1A	77		20	20	20	77		207R	20
BUSH	414714.48	-1241409.98	1A	68		11	11	11	229		51R	10
BUSH	414714.33	-1241407.58	1A	68		11	11	11	256		129L	9
GROUND	414719.18	-1241408.65	1A	75		18	18	18	716		61R	3
GROUND	414718.86	-1241404.19	1A	87		30	30	30	761		275L	13
GROUND	414721.59	-1241406.57	1A	86		29	29	29	989		36L	6
GROUND	414721.73	-1241403.01	1A	96		39	39	39	1065		296L	13
TREE	414723.05	-1241409.83	1A	111		54	54	54	1076		238R	28
TREE	414727.53	-1241404.36	1A	115		58	58	58	1612		62L	16
TREE	414732.05	-1241407.66	1A	144		87	87	87	2001		285R	34
TREE	414736.53	-1241356.29	1A	156		99	99	99	2638		450L	27
TREE	414741.62	-1241403.71	1A	149		92	92	92	3012		215R	9
TREE	414742.59	-1241359.79	1A	155		98	98	98	3176		51L	10

AIRPORT ELEVATION 57

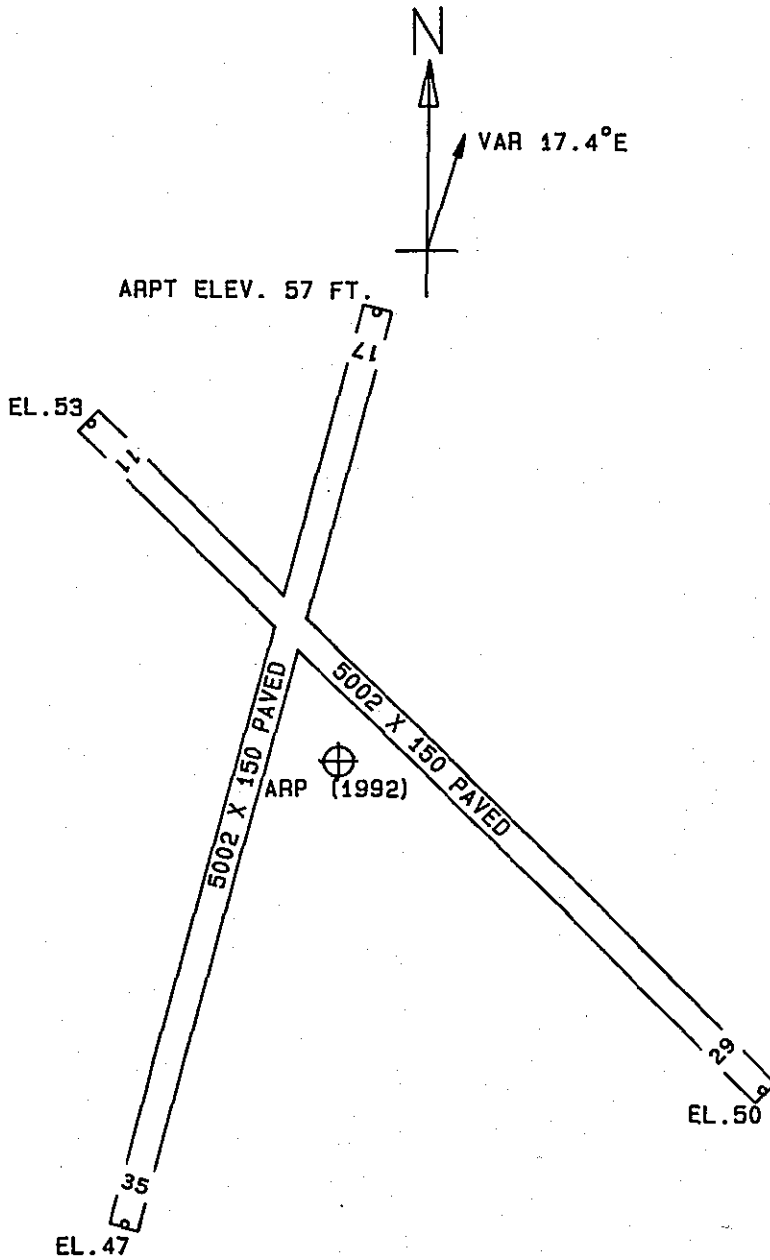
ARP 414648.567 -1241411.521

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ANEMOMETER	414645.25	-1241413.78	1A	75		18	18936	376
OL WIND TEE	414643.64	-1241410.14	1A	61		4	15045	510
OL APBN	414639.51	-1241408.81	1A	90		33	14957	939
TREE	414655.31	-1241401.42	1A	118		61	3052	1026
ANT ON OL RTR	414636.79	-1241412.04	1A	94		37	16430	1193
VOR	414646.45	-1241427.08	1A	69		12	24216	1198
TREE	414649.58	-1241354.55	1A	136		79	6801	1290
BUSH	414639.80	-1241423.91	1A	70		13	20913	1291
BUSH	414702.77	-1241409.50	1A	69		12	34841	1446
ROD ON OL DF	414652.97	-1241431.87	1A	82		25	26843	1605
BUSH	414700.22	-1241431.21	1A	63		6	29055	1901
TREE	414707.70	-1241402.23	1A	140		83	234	2061
GROUND	414712.81	-1241413.33	1A	66		9	33924	2457
TREE	414627.21	-1241427.87	1A	61		4	19225	2491
BUSH	414713.24	-1241404.75	1A	76		19	35412	2550
TREE	414641.72	-1241339.08	1A	116		59	8820	2553
TREE	414712.53	-1241357.42	1A	163		106	621	2651
TREE	414627.87	-1241348.68	1A	119		62	12302	2717
BUSH	414715.41	-1241404.77	1A	79		22	35315	2765
TREE	414626.05	-1241345.59	1A	127		70	12150	3009
TREE	414635.54	-1241330.67	1A	117		60	9540	3364
TREE	414633.91	-1241327.64	1A	117		60	9638	3640
TREE	414630.73	-1241327.87	1A	119		62	10113	3768
TREE	414634.11	-1241325.00	1A	132		75	9508	3816
TREE	414629.52	-1241323.57	1A	133		76	10032	4113
TREE	414631.55	-1241321.90	1A	142		85	9712	4136
TREE	414730.50	-1241411.56	1A	134		77	34233	4244
TREE	414728.44	-1241350.04	1A	166		109	433	4351
TREE	414627.11	-1241321.28	1A	145		88	10218	4383
TREE	414735.80	-1241348.95	1A	175		118	216	5078
OL ANTENNA	414657.90	-1241517.64	1B	200		143	26317	5098

AIRPORT ELEVATION 57

ARP 414648.567 -1241411.521

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	414738.64	-1241350.76	1A	172		115	35950	5307
GROUND	414539.99	-1241502.22	1B	238		181	19134	7934
OL ON RADIO TOWER	414534.04	-1241131.83	2A	326	317	269	10431	14260



TOUCHDOWN ZONE RUNWAY ELEVATION	
11	57
29	56
35	56
17	57

JACK McNAMARA FIELD  
 CRESCENT CITY, CALIFORNIA  
 (NOT TO SCALE)