

# OBSTRUCTION DATA SHEET

**ODS 142  
SNOHOMISH COUNTY (PAINE FIELD) AIRPORT  
EVERETT, WASHINGTON**

**DIGITIZED FROM**

**OC 142  
SURVEYED 21 JULY 1992  
8TH 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.

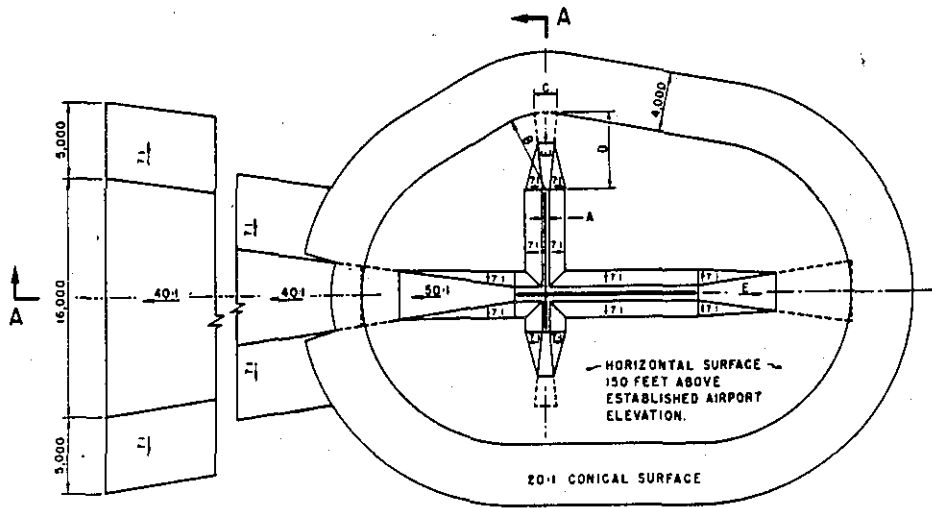
ODS information is arranged as follows:

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:

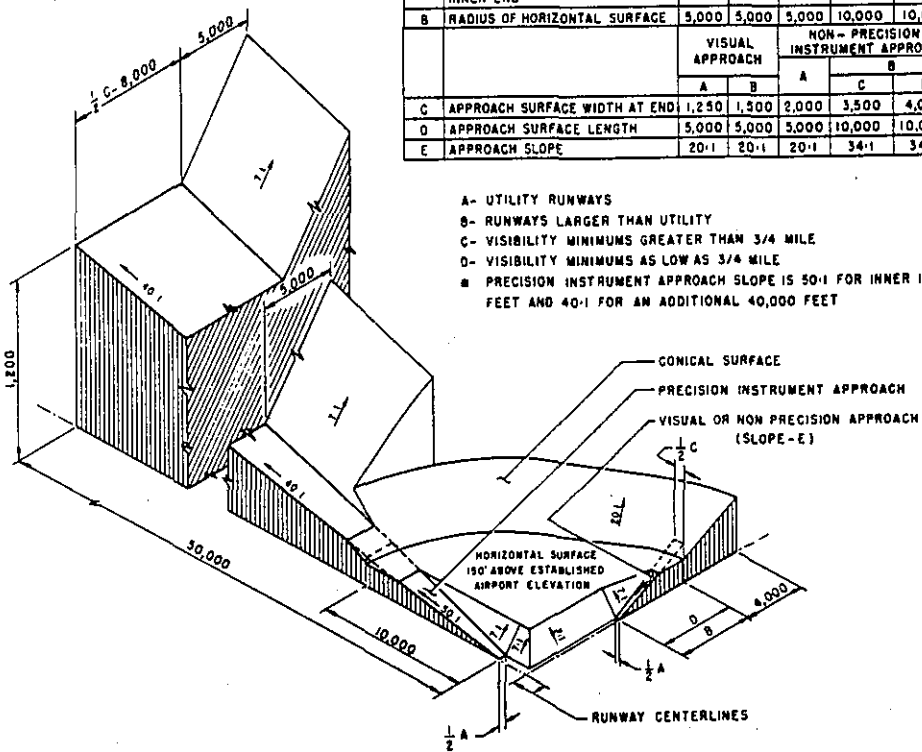
- A(V) ..... Utility runway - visual approach only
- A(NP) .... Utility runway - nonprecision instrument approach
- B(V) ..... Nonutility runway - visual approach only
- C ..... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
- D ..... Nonutility runway- 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	1,300	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

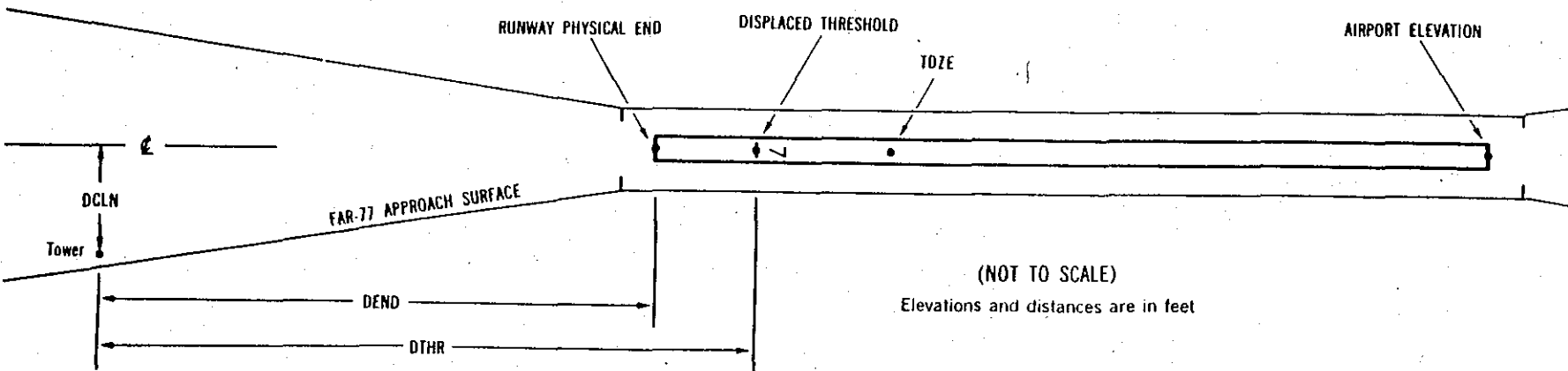
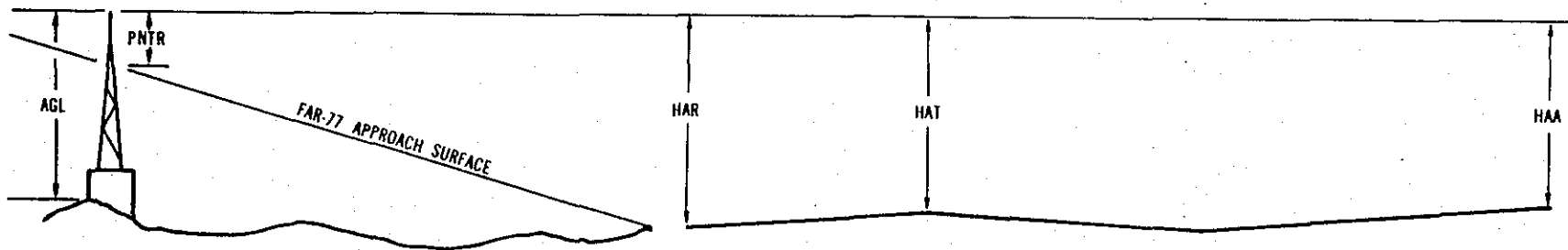
# ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x <sup>1</sup>	x <sup>2</sup>	XXXX/XXXX <sup>3</sup>	XXXXXX.XXX <sup>4</sup>	XXXXXXXX.XXX <sup>4</sup>	XXXXXXXX <sup>5</sup>	XXXX/XXXX <sup>6</sup>	XXXXXX.XXX <sup>7</sup>	XXXXXXXX.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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(NOT TO SCALE)  
Elevations and distances are in feet

## 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).

OC0142

AIRPORT ELEVATION 606

11 AV 561/ 475437.492 -1221712.377 1340819. 572/ 603 475432.000 -1221703.960

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	475438.31	-1221715.04	1A	584		23	-19	-22	188	987	66R	23
TREE	475440.16	-1221715.54	1A	591		30	-12	-15	343	1142	44L	23
TREE	475441.01	-1221719.86	1A	612		51	9	6	614	1413	99R	30
TREE	475447.69	-1221725.02	1A	662		101	59	56	1338	2137	142L	44
TREE	475453.86	-1221731.81	1A	689		128	86	83	2105	2904	268L	33

29 AV 600/ 603 475406.470 -1221624.839 3140854.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	475438.31	-1221715.04	1A	584		-16	-19	-22	-4701		66L	23
TREE	475400.30	-1221612.85	1A	609		9	6	3	1021		121R	-32
TREE	475352.83	-1221606.87	1A	644		44	41	38	1841		139L	-38

16L AV 597/ 606 475423.121 -1221618.116 1793408.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	475424.61	-1221616.62	1A	599		2	-7	-7	150		103L	2
TRAFFIC LIGHT	475426.78	-1221616.23	1A	606		9	0	0	370		132L	0
LIGHT STANDARD	475426.93	-1221619.11	1A	601		4	-5	-5	387		65R	-5
TREE	475443.90	-1221620.12	1A	645		48	39	39	2107		121R	-47
TREE	475450.36	-1221621.69	1A	682		85	76	76	2762		222R	-43

OC0142

AIRPORT ELEVATION 606

34R AV 596/ 606 475353.515 -1221617.784 3593409.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
SIGN	475424.61	-1221616.62	1A	599		3	-7	-7	-3150		103R	2
POLE	475346.62	-1221620.08	1A	622		26	16	16	697		162L	1
TREE	475338.69	-1221615.27	1A	655		59	49	49	1504		160R	-6
TREE	475336.35	-1221613.66	1A	668		72	62	62	1741		268R	-5



OC0142

AIRPORT ELEVATION 606

16R PIR 554/ 565 475521.033 -1221709.191 1790811.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TREE	475350.90	-1221713.89	1A	578		24	13	-28	-9127		458R	4
SIGN	475353.01	-1221711.39	1A	576		22	11	-30	-8916		284R	2
GROUND	475401.78	-1221701.37	1A	585		31	20	-21	-8038		412L	8
TREE	475401.73	-1221714.28	1A	593		39	28	-13	-8029		468R	16
OL ON LTD WSK	475402.03	-1221711.22	1A	596		42	31	-10	-8002		259R	19
GROUND	475417.52	-1221701.99	1A	582		28	17	-24	-6443		394L	6
TREE	475421.75	-1221714.88	1A	598		44	33	-8	-6000		478R	24
GROUND	475436.48	-1221703.32	1A	570		16	5	-36	-4520		332L	4
TREE	475436.54	-1221714.68	1A	584		30	19	-22	-4502		442R	18
TREE	475438.31	-1221715.04	1A	584		30	19	-22	-4322		463R	18
TREE	475440.16	-1221715.54	1A	591		37	26	-15	-4134		495R	26
GROUND	475443.30	-1221703.04	1A	569		15	4	-37	-3829		362L	5
TREE	475446.81	-1221715.46	1A	584		30	19	-22	-3461		479R	21
TREE	475456.17	-1221714.70	1A	589		35	24	-17	-2514		413R	25
OL ON LTD WSK	475510.99	-1221704.91	1A	583		29	18	-23	-1022		276L	19
ROD ON OL GS	475511.59	-1221713.75	1A	604		50	39	-2	-952		325R	41
TREE	475527.39	-1221701.91	1A	556		2	-9	-50	637		506L	-7
FLOODLIGHT	475531.63	-1221704.71	1A	567		13	2	-39	1069		322L	-4
TREE	475531.68	-1221714.59	1A	579		25	14	-27	1085		352R	7
POLE	475533.48	-1221716.55	1A	573		19	8	-33	1269		482R	-2
AIR COND ON BLDG	475544.22	-1221659.07	1A	570		16	5	-36	2338		724L	-27
TREE	475546.64	-1221706.36	1A	590		36	25	-16	2591		232L	-12
TREE	475600.21	-1221724.54	1A	615		61	50	9	3985		985R	-15
TREE	475604.67	-1221657.06	1A	622		68	57	16	4409		893L	-16

34L D 573/ 579 475352.134 -1221707.198 3590812.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	475511.59	-1221713.75	1A	604		31	25	-2	-8057		325L	41
OL ON LTD WSK	475510.99	-1221704.91	1A	583		10	4	-23	-7987		276R	19
TREE	475456.17	-1221714.70	1A	589		16	10	-17	-6495		413L	25
TREE	475446.81	-1221715.46	1A	584		11	5	-22	-5548		479L	21
GROUND	475443.30	-1221703.04	1A	569		-4	-10	-37	-5180		362R	5
TREE	475440.16	-1221715.54	1A	591		18	12	-15	-4875		495L	26
TREE	475438.31	-1221715.04	1A	584		11	5	-22	-4687		463L	18
TREE	475436.54	-1221714.68	1A	584		11	5	-22	-4507		442L	18
GROUND	475436.48	-1221703.32	1A	570		-3	-9	-36	-4489		332R	4
TREE	475421.75	-1221714.88	1A	598		25	19	-8	-3008		478L	24
GROUND	475417.52	-1221701.99	1A	582		9	3	-24	-2566		394R	6
OL ON LTD WSK	475402.03	-1221711.22	1A	596		23	17	-10	-1007		259L	19
TREE	475401.73	-1221714.28	1A	593		20	14	-13	-980		468L	16
GROUND	475401.78	-1221701.37	1A	585		12	6	-21	-971		412R	8
SIGN	475353.01	-1221711.39	1A	576		3	-3	-30	-93		284L	2
TREE	475350.90	-1221713.89	1A	578		5	-1	-28	118		458L	4
GROUND	475350.23	-1221659.82	1A	579		6	0	-27	200		500R	6
BUSH	475349.43	-1221700.05	1A	590		17	11	-16	282		483R	14
OL ON LOC	475342.28	-1221706.98	1A	577		4	-2	-29	998		OR	-20
TREE	475340.84	-1221715.28	1A	625		52	46	19	1136		568L	24
TREE	475335.87	-1221658.31	1A	625		52	46	19	1657		581R	9
TREE	475320.46	-1221658.39	1A	656		83	77	50	3218		552R	-6
TREE	475316.98	-1221703.96	1A	672		99	93	66	3565		167R	0
TREE	475316.75	-1221708.75	1A	687		114	108	81	3583		160L	14
TREE	475315.00	-1221654.78	1A	699		126	120	93	3775		790R	20
TREE	475235.87	-1221653.59	1A	747		174	168	141	7740		811R	-48

OC0142

AIRPORT ELEVATION 606

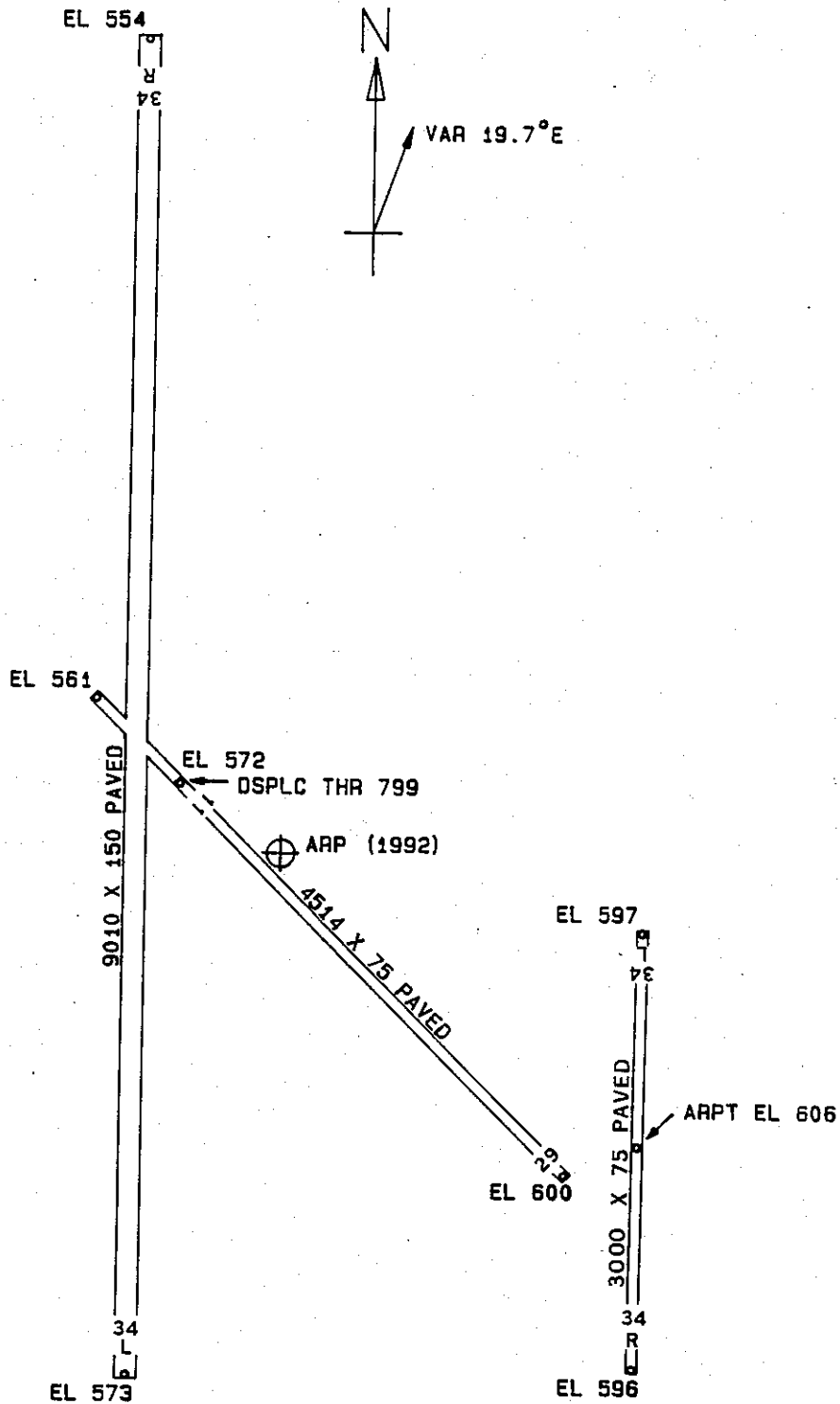
ARP 475427.463 -1221653.719

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON LTD WSK	475422.07	-1221657.58	1A	605		-1	18601	607
HGR (UNDER CONST)	475421.06	-1221655.36	1A	606		0	17005	658
ANT AND APBN ON OL ATCT	475425.47	-1221644.42	1A	697		91	8801	665
AMOM	475418.59	-1221657.60	1A	601		-5	17641	937
TREE	475428.24	-1221718.71	1A	631		25	25256	1705
TREE	475422.39	-1221717.80	1A	629		23	23253	1719
TREE	475431.89	-1221718.78	1A	630		24	26501	1765
HGR (UNDER CONST)	475409.47	-1221655.14	1A	606		0	16319	1826
TREE	475436.78	-1221719.59	1A	617		11	27828	1999
LIGHT STANDARD	475409.70	-1221640.67	1A	643		37	13401	2008
ON ON BLDG	475410.02	-1221716.35	1A	597		-9	20124	2345
TREE	475440.53	-1221722.79	1A	610		4	28404	2382
BLDG	475410.92	-1221626.16	1A	618		12	11203	2517
POLE	475427.41	-1221615.52	1A	609		3	7025	2602
TREE	475426.50	-1221614.29	1A	620		14	7222	2688
TREE	475442.14	-1221727.76	1A	628		22	28258	2755
OL ON HGR	475402.89	-1221636.33	1A	684		78	13451	2758
TREE	475443.40	-1221726.57	1A	630		24	28607	2760
BLDG	475417.50	-1221614.50	1A	607		1	9059	2856
OL ON BUILDING	475356.95	-1221655.86	1A	646		40	16300	3095
TREE	475400.86	-1221716.85	1A	617		11	19036	3123
POLE	475415.42	-1221610.39	1A	648		42	9245	3194
LIGHT STANDARD	475411.30	-1221613.07	1A	628		22	10053	3218
ROD ON OL HGR	475401.56	-1221625.48	1A	635		29	12402	3254
TREE	475443.74	-1221610.28	1A	674		68	4109	3388
ANT ON BLDG	475355.93	-1221622.37	1A	633		27	12632	3844
TREE	475457.08	-1221730.80	1A	685		79	30012	3923
FENCE	475355.47	-1221619.95	1A	602		-4	12455	3975
BUSH	475354.87	-1221619.91	1A	605		-1	12523	4026
TREE	475402.85	-1221606.65	1A	672		66	10809	4063
FLOODLIGHT ON BLDG	475353.75	-1221621.40	1A	618		12	12729	4064

AIRPORT ELEVATION 606

ARP 475427.463 -1221653.719

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
ROD ON OL TMOM	475508.82	-1221716.55	1A	579		-27	31956	4470
BLDG	475349.09	-1221620.40	1A	616		10	13001	4503
TREE	475506.54	-1221726.54	1A	689		83	31050	4547
OL ON DME ON BLDG	475512.07	-1221641.78	1A	679		73	35030	4592
POLE	475347.68	-1221621.26	1A	628		22	13132	4598
ROD ON OL TMOM	475511.29	-1221716.90	1A	579		-27	32043	4713
POLE	475347.73	-1221614.49	1A	624		18	12643	4832
LIGHT POLE	475515.96	-1221655.08	1A	609		3	33913	4915
TREE	475513.77	-1221729.73	1A	707		101	31242	5295
TREE	475343.64	-1221610.65	1A	664		58	12650	5322
TREE	475339.14	-1221622.46	1A	657		51	13647	5340
TREE	475517.46	-1221722.99	1A	640		34	31849	5444
ANT ON OL BLDG	475523.73	-1221641.38	1A	710		104	34841	5762
TREE	475523.39	-1221722.91	1A	664		58	32057	6006
TREE	475335.91	-1221609.43	1A	697		91	13016	6032
BUSH	475527.22	-1221718.25	1A	572		-34	32452	6282
TREE	475534.21	-1221725.63	1A	640		34	32229	7104
TREE	475535.70	-1221720.37	1A	603		-3	32535	7148
TREE	475544.05	-1221730.38	1A	679		73	32227	8152



**TOUCHDOWN ZONE  
RUNWAY ELEVATION**

11	603
29	603
16R	565
34L	579

SNOHOMISH COUNTY (PAINE FIELD) AIRPORT  
 EVERETT, WASHINGTON  
 (NOT TO SCALE)  
 (ALL ELEVATIONS IN FEET)