

OBSTRUCTION DATA SHEET

**ODS 361
MCNARY FIELD
SALEM, OREGON**

DIGITIZED FROM

**OC 361
SURVEYED MAY 1992
10TH 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.

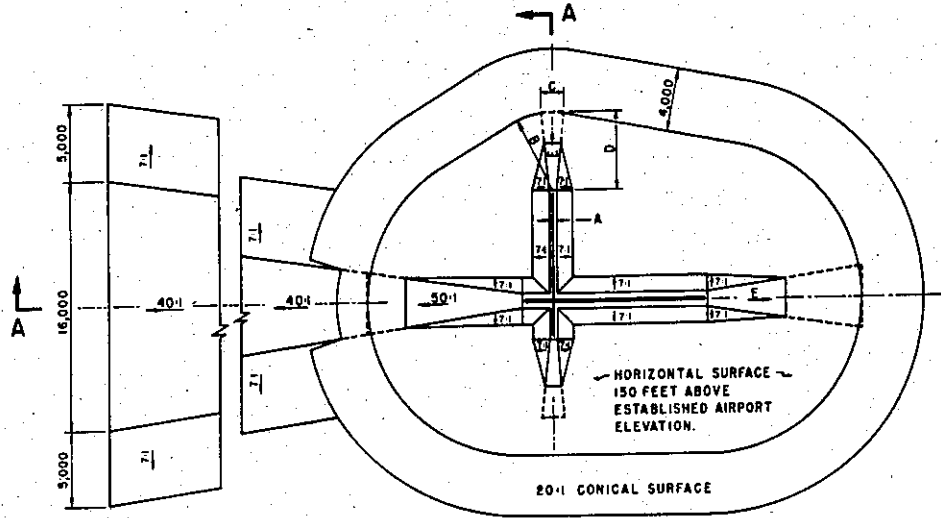
ODS information is arranged as follows:

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:

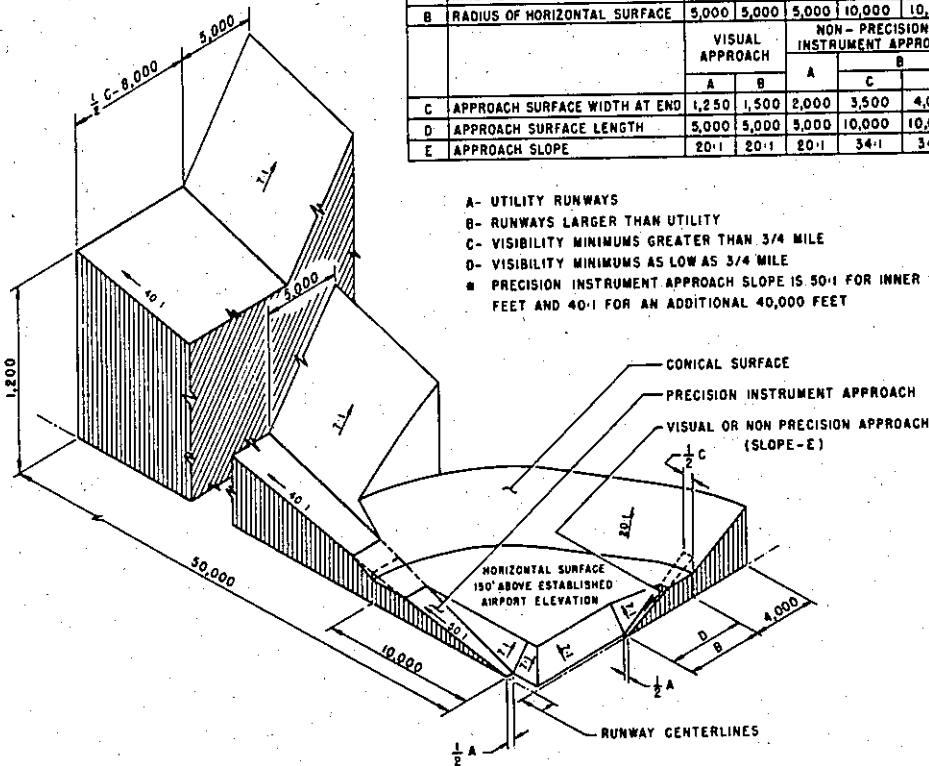
A(V) Utility runway - visual approach only
A(NP) Utility runway - nonprecision instrument approach
B(V) Nonutility runway - visual approach only
C Nonutility runway - nonprecision instrument
approach with visibility minimums greater than
3/4 mile
D Nonutility runway- nonprecision instrument approach
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	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
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	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

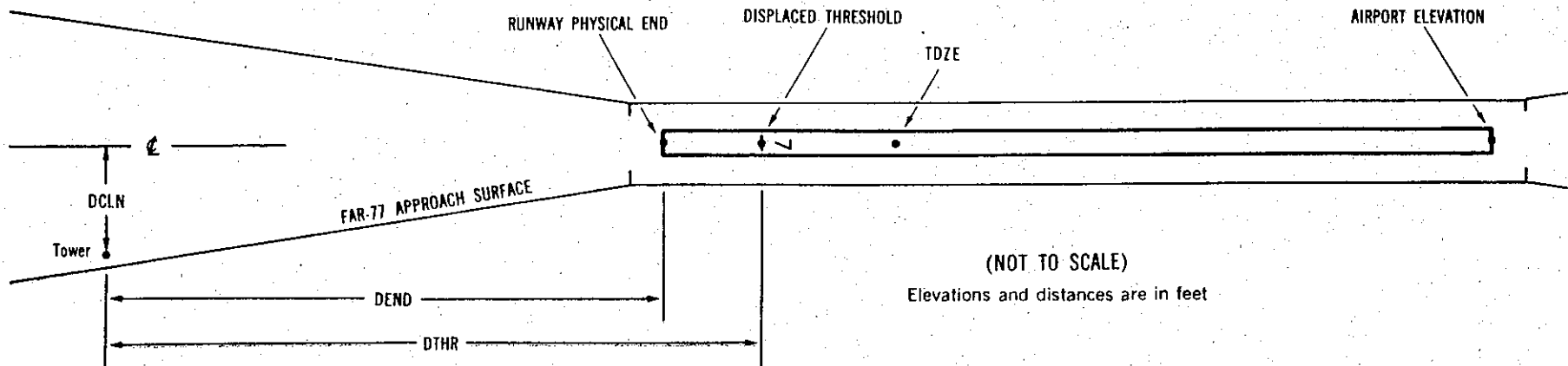
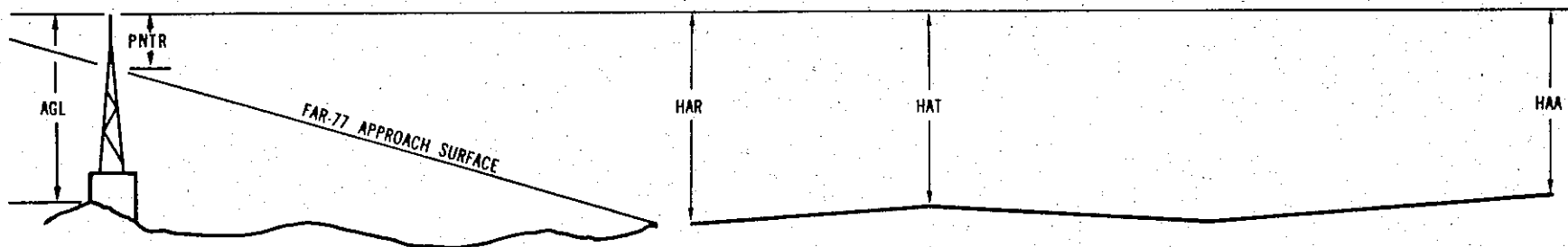
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

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
XXXXXXXXXXXXXX				XXXXXXXX.XXX	XXXXXXXX.XXX	XX XXXX XXXX	XXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXXXX				XXXXXXXX.XXX	XXXXXXXX.XXX	XX XXXX XXXX	XXX	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 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).

OC0361

AIRPORT ELEVATION 210

13 C 191/ 200 445500.766 -1230026.128 1500517.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	445420.42	-1225947.06	1A	239		48	39	29	-4944		400L	33
TREE	445503.28	-1230036.54	1A	205		14	5	-5	595		522R	2
OL ON DME	445507.29	-1230035.81	1A	206		15	6	-4	920		275R	-6
OL ON LOC	445509.50	-1230033.20	1A	194		3	-6	-16	1020		0R	-21
TREE	445512.41	-1230041.35	1A	227		36	27	17	1568		362R	-4
TREE	445535.95	-1230039.85	1A	284		93	84	74	3581		921L	-6
STATUE	445618.54	-1230149.53	1A	338		147	138	128	9819		1272R	-136

31 PIR 210/ 210 445411.031 -1225945.869 3300546.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROD ON OL GS	445420.42	-1225947.06	1A	239		29	29	29	-867		400R	33
ROD ON BLDG	445406.96	-1225935.25	1A	223		13	13	13	738		457R	2
TREE	445357.00	-1225922.22	1A	252		42	42	42	2080		767R	5
TREE	445354.49	-1225920.56	1A	269		59	59	59	2360		745R	16
TREE	445334.56	-1225931.61	1A	315		105	105	105	3714		952L	35
TREE	445335.55	-1225919.65	1A	307		97	97	97	4056		155L	20
TREE	445338.30	-1225909.90	1A	320		110	110	110	4164		592R	31
TREE	445329.54	-1225926.83	1A	310		100	100	100	4325		907L	18
TREE	445330.55	-1225920.87	1A	317		107	107	107	4451		484L	22
TREE	445332.06	-1225910.43	1A	329		119	119	119	4693		244R	29
TREE	445233.47	-1225828.84	1A	425		215	215	215	11329		117L	-13
TREE	445201.39	-1225838.00	1A	522		312	312	312	13817		2308L	22
TREE	445218.96	-1225746.08	1A	505		295	295	295	14137		1820R	-3
TRMSN POLE	445222.66	-1225736.74	1A	516		306	306	306	14147		2590R	8
TREE	445146.13	-1225819.15	1A	673		463	463	463	15833		1901L	122

OC0361

AIRPORT ELEVATION 210

34 SUPLC 208/ 208 445407.216 -1230012.872 004620.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	445401.31	-1230017.18	1A	223		15	15	13	602		302L	4
OL ON POLE	445359.82	-1230016.16	1A	231		23	23	21	752		226L	7
TREE	445358.35	-1230013.97	1A	241		33	33	31	899		67L	13
RAILROAD	445357.20	-1230012.86	1A	236		28	28	26	1015		15R	4
TREE	445355.29	-1230008.90	1A	252		44	44	42	1204		302R	15
TREE	445352.87	-1230018.64	1A	270		62	62	60	1458		395L	25
TREE	445348.00	-1230018.22	1A	285		77	77	75	1951		358L	26
TREE	445331.79	-1230021.06	1A	374		166	166	164	3595		541L	67
TREE	445330.29	-1230017.76	1A	380		172	172	170	3744		301L	68
TREE	445322.47	-1230009.93	1A	424		216	216	214	4528		273R	89
TREE	445321.22	-1230016.75	1A	417		209	209	207	4661		217L	78
TREE	445317.03	-1230005.18	1A	420		212	212	210	5075		622R	69
TREE	445313.05	-1230019.04	1B	444		236	236	234	5491		370L	81
TREE	445302.72	-1230011.04	1B	495		287	287	285	6529		220R	101
TREE	445259.08	-1230010.26	1B	493		285	285	283	6897		281R	88
POLE	445258.67	-1230004.98	1B	438		230	230	228	6933		662R	32
TREE	445252.78	-1230002.23	1B	534		326	326	324	7527		868R	111
TREE	445252.71	-1230006.76	1B	507		299	299	297	7539		541R	84
TREE	445246.89	-1230019.63	1B	557		349	349	347	8140		377L	116
TREE	445243.74	-1230017.25	1B	569		361	361	359	8457		201L	119
TREE	445237.58	-1230030.94	1B	555		347	347	345	9094		1178L	86

OC0361

AIRPORT ELEVATION 210

16 SUPLC 192/ 201 445458.015 -1230011.908 1804621.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
ROAD (N)	445502.60	-1230008.30	1A	208		16	7	-2	468		254L	8
LGT STANDARD	445511.75	-1230014.81	1A	224		32	23	14	1388		228R	-3
TREE	445515.46	-1230008.37	1A	259		67	58	49	1770		231L	21
TREE	445528.65	-1230002.28	1A	282		90	81	72	3111		651L	4
TREE	445529.40	-1230006.57	1A	282		90	81	72	3183		341L	2
TREE	445530.02	-1230015.88	1A	288		96	87	78	3237		329R	6
STACK	445620.38	-1230005.74	2C	354		162	153	144	8346		331L	-78

OC0361

AIRPORT ELEVATION 210

ARP 445434.357 -1230008.999

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
OL ON LTD WINDSOCK	445426.89	-1230006.81	1A	232		22	14944	772
OL ON ANEMOMETER	445423.11	-1230003.92	1A	237		27	14341	1196
ANT ON OL ATCT	445434.70	-1230026.98	1A	270		60	25303	1294
ROD ON OL TMOM	445422.26	-1230003.05	1A	219		9	14214	1298
OL ON LTD WSK	445446.65	-1225959.77	1A	256		46	935	1411
ROD ON OL APBN	445445.90	-1225955.74	1A	279		69	2042	1509
LIGHT STANDARD	445500.24	-1230036.73	1A	225		15	30413	3295
TREE	445401.80	-1230019.42	1A	279		69	17419	3382
TREE	445400.87	-1230017.95	1A	252		42	17215	3452
TREE	445402.68	-1225950.49	1A	277		67	13856	3473
TREE	445357.48	-1230018.56	1A	278		68	17156	3797
TREE	445514.63	-1230003.22	1A	265		55	34719	4099
TREE	445406.90	-1225926.96	1A	291		81	11404	4109
TREE	445507.29	-1230044.15	1A	247		37	30419	4186
TREE	445508.94	-1230044.20	1A	239		29	30537	4322
TREE	445401.68	-1225926.48	1A	262		52	11844	4507
TREE	445349.14	-1230002.36	1A	305		95	15532	4604
TREE	445511.69	-1230047.00	1A	251		41	30537	4666
TREE	445357.03	-1230052.47	1B	374		164	20107	4906
TREE	445514.30	-1230049.97	1A	268		58	30525	5005
TREE	445341.60	-1230032.98	1B	393		183	17924	5614
ANTENNA ON TANK	445353.66	-1230107.65	1B	388		178	20711	5900
TREE	445337.28	-1230025.85	1B	426		216	17321	5906
ROD ON TANK	445337.17	-1230033.24	1B	394		184	17816	6048
TREE	445332.21	-1225934.01	1A	339		129	13941	6778
TREE	445328.67	-1225943.35	1B	387		177	14559	6903
TREE	445329.97	-1225930.34	1A	338		128	13823	7089
TREE	445344.91	-1230121.58	1B	475		265	20743	7237
TREE	445410.35	-1230146.49	1B	455		245	23223	7425
TREE	445416.07	-1230149.37	1B	475		265	23707	7457
OL ON STANDPIPE	445334.42	-1230115.69	1B	457		247	19950	7738

AIRPORT ELEVATION 210

ARP 445434.357 -1230008.999

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	445453.21	-1230155.25	1B	384		174	26532	7880
TREE	445320.46	-1225928.06	1A	372		162	14000	8043
TREE	445315.81	-1230036.55	1B	480		270	17530	8197
TREE	445456.99	-1230158.95	1B	386		176	26740	8237
TREE	445323.67	-1230116.69	1B	500		290	19544	8659
TREE	445344.00	-1230147.51	1B	453		243	21547	8734
TREE	445417.77	-1230213.19	1B	479		269	24052	9094
TREE	445355.95	-1230208.93	1B	489		279	22715	9467
TREE	445312.25	-1230133.92	1B	589		379	19749	10320
TREE	445313.10	-1230139.56	2C	629		419	19953	10497
TREE	445454.79	-1230232.46	1B	431		221	26250	10529
TREE	445439.65	-1230239.60	1B	461		251	25420	10851
TREE	445234.01	-1225924.17	1B	407		197	14639	12607
TREE	445237.80	-1230119.64	2C	559		349	18448	12852
TREE	445526.06	-1230259.58	2C	460		250	27437	13344
TREE	445454.03	-1230313.37	2C	540		330	26003	13416
TREE	445407.47	-1230312.55	2C	538		328	23952	13487
TREE	445504.86	-1230312.06	2C	519		309	26442	13530
TREE	445219.48	-1230040.30	2C	556		346	17052	13843
RADIO TOWER	445435.25	-1230329.81	2C	696		486	25152	14451
TREE	445214.92	-1225904.79	2C	514		304	14322	14857
TREE	445328.29	-1225700.61	2C	511		301	9744	15120
TREE	445205.15	-1230000.45	2C	568		358	15909	15123
TREE	445207.84	-1230052.34	2C	562		352	17322	15161
TREE	445330.21	-1225655.38	2C	540		330	9628	15375
TREE	445159.08	-1230005.75	2C	566		356	16038	15726
TREE	445237.36	-1225744.27	2C	561		351	12009	15777
TREE	445249.96	-1225725.67	2C	638		428	11326	15810
TREE	445252.61	-1225720.90	2C	613		403	11153	15892
TREE	445313.01	-1225651.72	2C	622		412	10136	16416
TREE	445128.91	-1225827.16	2C	696		486	14009	20161

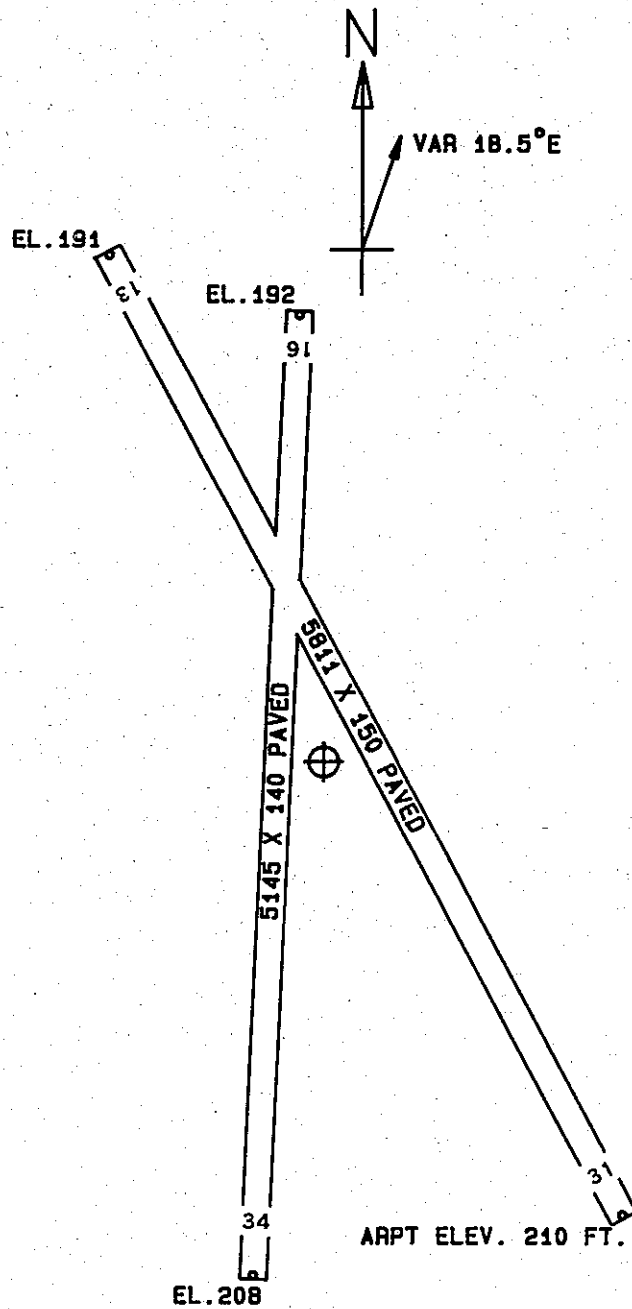
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AIRPORT ELEVATION 210

ARP 445434.357 -1230008.999

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	445119.29	-1225836.10	2C	793		583	14247	20856
TREE	445122.49	-1225821.75	2C	690		480	13949	20908
TREE	445114.78	-1225817.09	2C	705		495	13945	21758



TOUCHDOWN ZONE RUNWAY ELEVATION	
13	200
31	210
34	208
16	201

McNARY FIELD
SALEM, OREGON
(NOT TO SCALE)