

OBSTRUCTION DATA SHEET

ODS 698
UKIAH MUNICIPAL AIRPORT
UKIAH, CALIFORNIA

DIGITIZED FROM

OC 698
SURVEYED FEBRUARY 1993
7TH EDITION

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NGVD 29



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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.

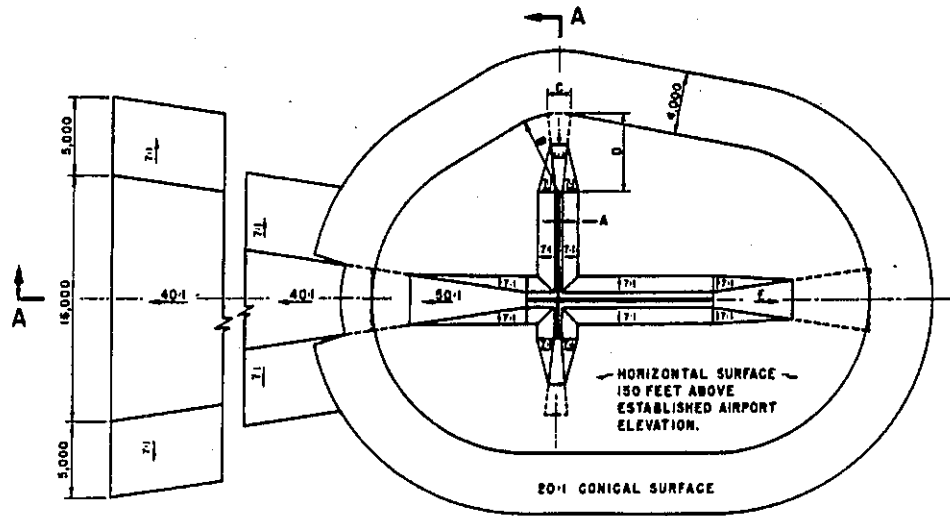
ODS information is arranged as follows:

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.

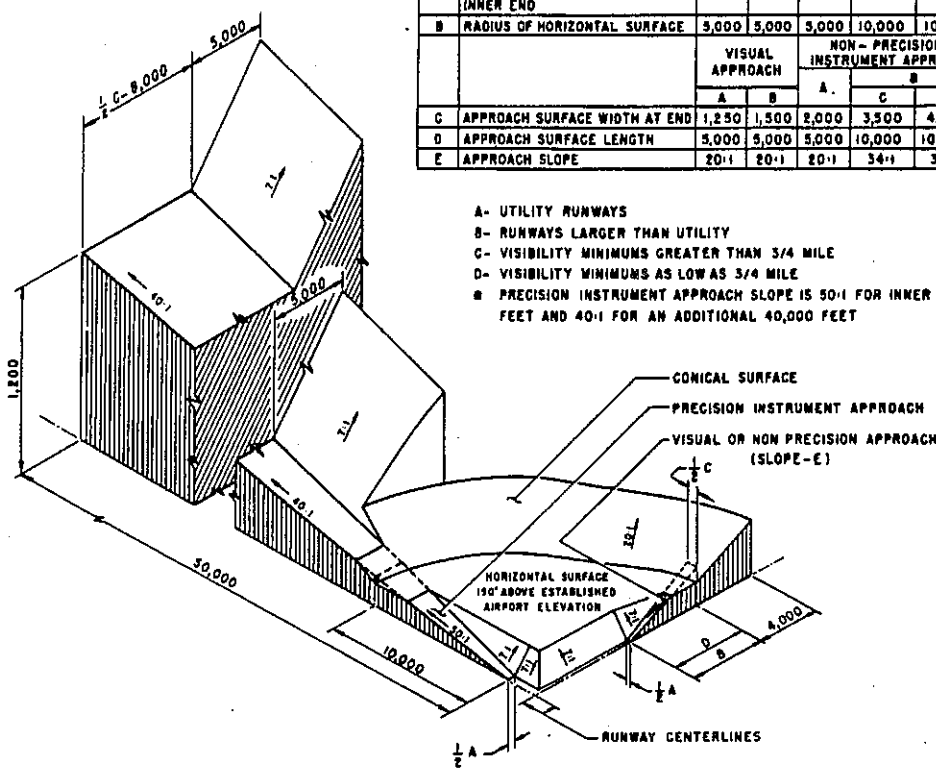
The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows:

- 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

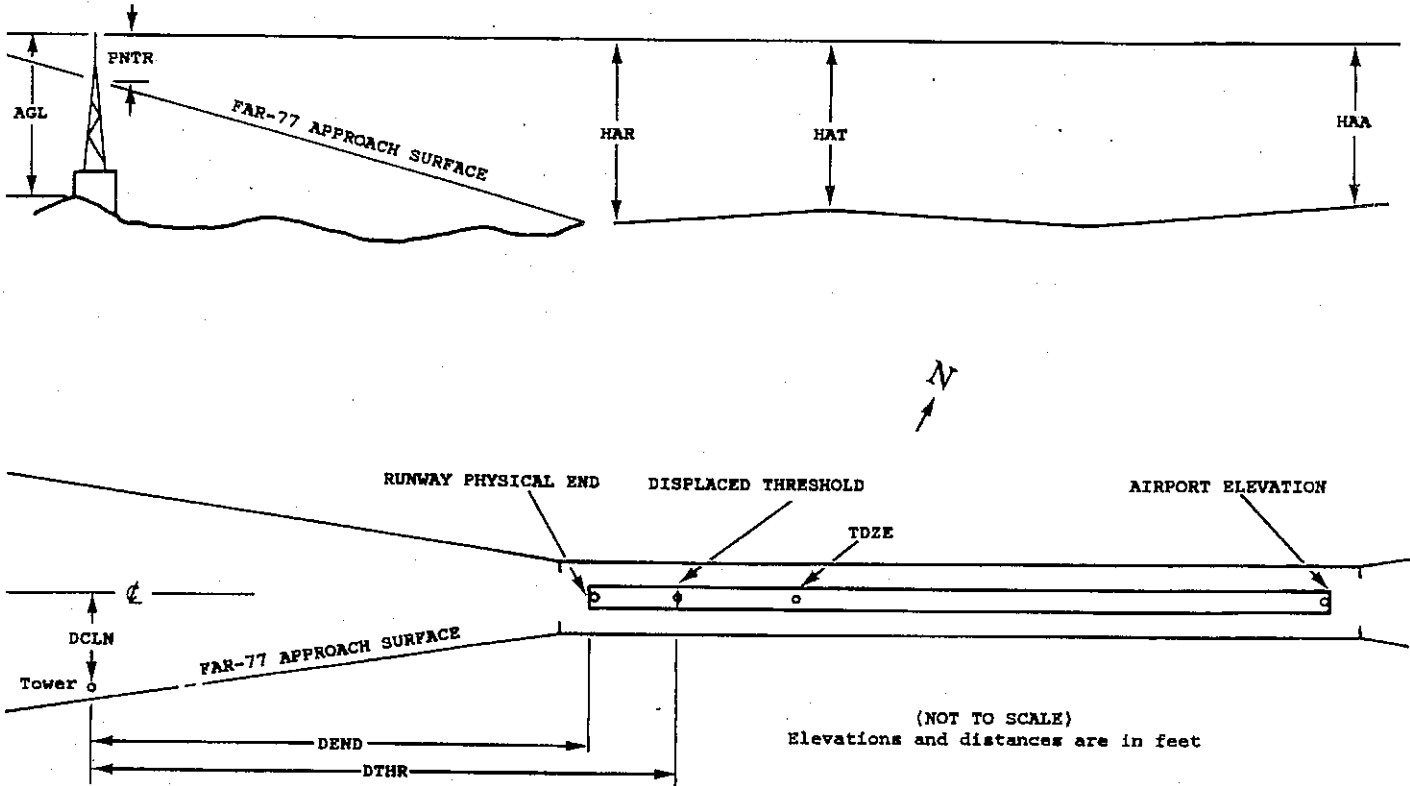
FAR-77 CIVIL AIRPORT
IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

	1	2	3	4	4	5	6	7	7			
	X	X	XXXX/XXXX	XXXXXXXX.XXX	XXXXXXXX.XXX	XXXXXXXX	XXXX/XXXX	XXXXXXXX.XXX	XXXXXXXX.XXX			
OBJECT	LAT	LONG	A ⁸	ELEV ⁹	AGL ¹⁰	HAR ¹¹	HAT ¹¹	HAA ¹¹	DEND ¹²	DTHR ¹²	DCLN ¹²	PNTR ¹³
XXXXXXXXXXXXX	XXXXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXXXX	XXXXXXXX.XXX	XXXXXXXX.XXX	XX	XXXX	XXXX	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 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 614

15 C 614/ 614 390754.811 -1231208.745 1681943.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
BUSH	390711.13	-1231154.02	1A	605		-9	-9	-9	-4562		243L	3
SIGN	390710.26	-1231200.14	1A	610		-4	-4	-4	-4551		247R	8
TREE	390722.23	-1231156.99	1A	612		-2	-2	-2	-3416		240L	10
SIGN	390724.60	-1231202.87	1A	609		-5	-5	-5	-3087		165R	6
GROUND	390728.28	-1231204.82	1A	607		-7	-7	-7	-2691		240R	3
GROUND	390738.15	-1231207.42	1A	611		-3	-3	-3	-1672		239R	3
GROUND	390745.52	-1231209.36	1A	614		0	0	0	-910		238R	4
GROUND	390754.36	-1231211.80	1A	617		3	3	3	4		245R	4
GROUND	390756.25	-1231212.27	1A	618		4	4	4	199		242R	4
ROAD (N)	390802.89	-1231210.91	1A	631		17	17	17	835		2R	-2
TREE	390804.52	-1231215.05	1A	673		59	59	59	1062		288R	34
TREE	390809.45	-1231209.70	1A	653		39	39	39	1465		226L	2
POLE	390808.44	-1231217.38	1A	658		44	44	44	1488		388R	6
POLE	390810.63	-1231207.43	1A	659		45	45	45	1546		425L	5
TREE	390811.82	-1231207.78	1A	679		65	65	65	1670		423L	22
POLE	390810.88	-1231218.21	1A	664		50	50	50	1743		402R	5
TREE	390814.58	-1231213.40	1A	682		68	68	68	2032		45L	14
TREE	390816.01	-1231210.89	1A	671		57	57	57	2135		268L	0
TREE	390822.67	-1231208.70	1A	684		70	70	70	2759		573L	-5
TREE	390823.37	-1231222.23	1A	691		77	77	77	3044		456R	-7
TREE	390851.43	-1231233.12	1A	755		141	141	141	5998		721R	-29
SPIRE	390902.29	-1231239.34	1A	769		155	155	155	7173		979R	-50

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AIRPORT ELEVATION 614

33 SUPLC 602/ 609 390712.080 -1231157.413 3481950.

OBJECT	LAT	LONG	A	EL	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	390756.25	-1231212.27	1A	618		16	9	4	-4613		242L	4
GROUND	390754.36	-1231211.80	1A	617		15	8	3	-4418		245L	4
GROUND	390745.52	-1231209.36	1A	614		12	5	0	-3504		238L	4
GROUND	390738.15	-1231207.42	1A	611		9	2	-3	-2742		239L	3
GROUND	390728.28	-1231204.82	1A	607		5	-2	-7	-1723		240L	3
SIGN	390724.60	-1231202.87	1A	609		7	0	-5	-1327		165L	6
TREE	390722.23	-1231156.99	1A	612		10	3	-2	-999		240R	10
SIGN	390710.26	-1231200.14	1A	610		8	1	-4	137		247L	8
BUSH	390711.13	-1231154.02	1A	605		3	-4	-9	148		243R	3
WSK	390707.23	-1231158.53	1A	617		15	8	3	463		185L	7
POLE	390706.84	-1231152.37	1A	624		22	15	10	599		282R	10
TREE	390703.28	-1231158.54	1A	654		52	45	40	854		267L	33
POLE	390702.15	-1231150.24	1A	629		27	20	15	1099		351R	1
TREE	390651.60	-1231153.05	1A	680		78	71	66	2099		83L	22
TREE	390650.27	-1231146.72	1A	667		65	58	53	2331		379R	2
TREE	390648.31	-1231154.76	1A	698		96	89	84	2397		282L	31
TREE	390646.52	-1231156.09	1A	701		99	92	87	2553		421L	30
TREE	390645.40	-1231149.96	1A	694		92	85	80	2763		30R	17
TREE	390530.14	-1231151.76	1A	1094		492	485	480	10190		1649L	198

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AIRPORT ELEVATION 614

ARP 390733.446 -1231203.078

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
POLE	390732.02	-1231208.80	1A	642		28	23601	473
OL AMOM	390739.86	-1231200.67	1A	623		9	5	676
TREE	390729.88	-1231155.58	1A	678		64	10513	692
TREE	390739.15	-1231158.22	1A	647		33	1722	693
WSK	390741.64	-1231201.78	1A	622		8	35050	835
TREE	390739.59	-1231212.02	1A	686		72	29513	939
TREE	390722.84	-1231205.07	1A	659		45	17206	1084
TREE	390722.67	-1231155.91	1A	637		23	13624	1228
TREE	390719.84	-1231205.78	1A	671		57	17234	1393
FENCE	390749.33	-1231203.78	1A	614		0	34150	1608
POLE	390716.80	-1231203.43	1A	645		31	16444	1684
TREE	390750.26	-1231200.63	1A	669		55	35016	1712
FENCE	390752.19	-1231204.62	1A	615		1	34007	1900
TREE	390716.54	-1231150.56	1A	664		50	13349	1975
TREE	390714.56	-1231151.62	1A	651		37	13830	2114
TREE	390711.85	-1231201.66	1A	672		58	16052	2188
BLDG	390709.12	-1231200.21	1A	620		6	15832	2471
OL ON DME	390708.99	-1231152.79	1A	612		-2	14539	2604
TREE	390705.86	-1231200.72	1A	673		59	15959	2797
TREE	390707.47	-1231149.92	1A	651		37	14215	2826
POLE	390758.90	-1231217.93	1A	680		66	31921	2828
POLE	390802.95	-1231205.24	1A	647		33	34032	2989
TREE	390702.81	-1231159.85	1A	660		46	15906	3110
TREE	390704.09	-1231150.45	1A	644		30	14516	3132
TREE	390803.31	-1231216.32	1A	693		79	32444	3197
TREE	390707.53	-1231229.10	1B	1037		423	20149	3328
POLE	390806.37	-1231219.00	1A	671		57	32309	3559
POLE	390810.02	-1231205.74	1A	656		42	34033	3706
TREE	390811.56	-1231159.86	1A	690		76	34733	3864
POLE	390718.23	-1231248.38	1B	1030		416	23028	3888
POLE	390702.22	-1231240.17	1A	1118		504	20634	4304
POLE	390733.92	-1231305.89	1B	1266		652	25421	4950
POLE	390726.50	-1231309.22	1B	1473		859	24607	5259
TREE	390822.97	-1231226.76	1A	712		98	32322	5347
POLE	390714.19	-1231320.59	1A	1861		1247	23607	6411
TREE	390801.98	-1231322.87	1B	1422		808	27828	6918
TREE	390619.23	-1231222.92	1B	1222		608	17533	7670
TREE	390621.60	-1231251.50	1B	1685		1071	19130	8209
TREE	390851.73	-1231242.44	1B	772		158	32225	8505
TREE	390800.20	-1231345.67	1B	1823		1209	27219	8525
TREE	390828.23	-1231032.80	1B	911		297	3552	9017

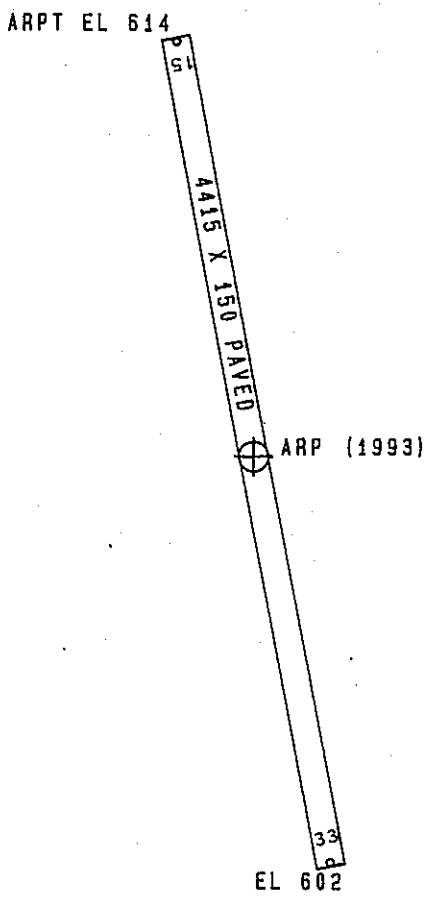
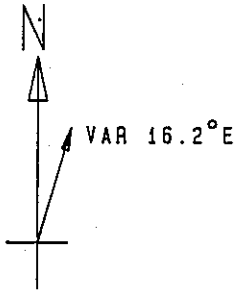
OC0698

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AIRPORT ELEVATION 614

ARP 390733.446 -1231203.078

OBJECT	LAT	LONG	A	EL	AGL	HAA	MAG BEARING	DISTANCE
TREE	390617.10	-1231310.90	1B	1850		1236	19829	9393
TREE	390629.48	-1231331.42	1B	2141		1527	21053	9505
ANT	390659.90	-1231357.15	1A	2595		1981	23307	9608
TREE	390811.28	-1231357.66	1B	2061		1447	27647	9806
OL ON APBN	390704.29	-1231406.91	1A	2622		2008	23659	10194
TANK	390854.53	-1231032.36	1A	955		341	2451	10880
TREE	390827.99	-1231407.28	1B	2099		1485	28313	11235
TREE	390540.62	-1231158.78	1B	1148		534	16206	11420
ANT	390854.63	-1231021.93	2C	1021		407	2755	11444
TREE	390849.70	-1231015.74	2C	1032		418	3125	11447
TREE	390923.57	-1231047.29	2C	997		383	1158	12641
BUSH	390809.08	-1231439.89	2C	2659		2045	27004	12871
TREE	390922.75	-1231028.21	1C	915		301	1750	13347
TREE	390516.53	-1231151.82	2C	1379		765	16008	13879
TREE	390924.76	-1231346.06	1C	1072		458	30802	13880
TREE	390949.27	-1231107.67	2C	906		292	125	14418
TREE	390907.90	-1231423.86	2C	2039		1425	29433	14640
POLE	390637.34	-1230909.43	2C	981		367	9618	14815
TREE	390928.34	-1231004.86	1C	1051		437	2229	14895
TREE	390456.32	-1231208.27	2C	1647		1033	16516	15901



TOUCHDOWN ZONE RUNWAY ELEVATION	
15	614
33	609

UKIAH MUNICIPAL AIRPORT
 UKIAH, CALIFORNIA
 (NOT TO SCALE)
 (ELEVATIONS AND DISTANCES IN FEET)