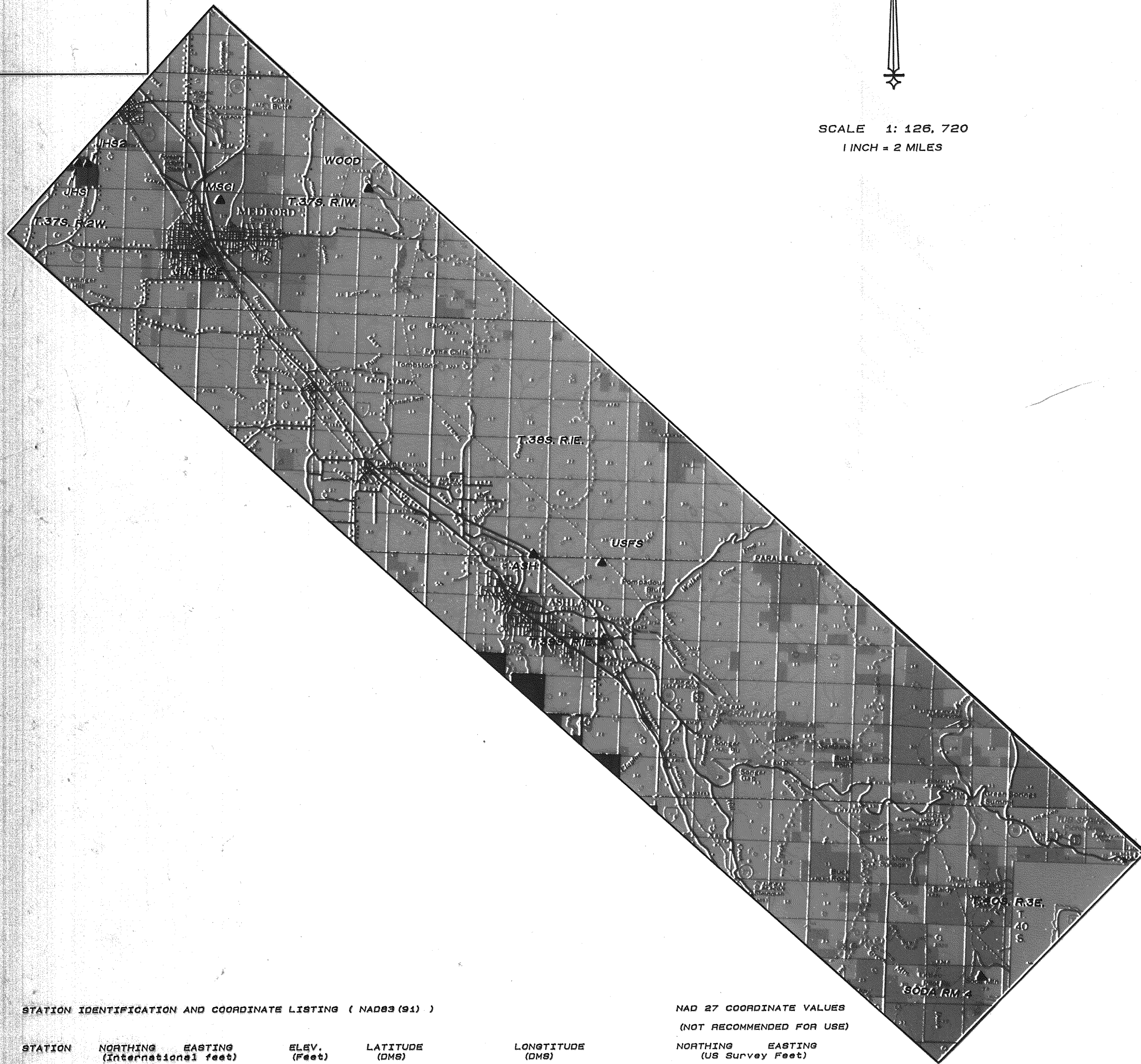




SCALE 1: 126, 720
1 INCH = 2 MILES



PURPOSE OF THIS SURVEY

THE PURPOSE OF THIS SURVEY WAS TO PROVIDE HORIZONTAL AND VERTICAL CONTROL BY GLOBAL POSITIONING SYSTEM (GPS) TECHNIQUES BETWEEN THE SURVEY STATIONS SHOWN HEREON.

THIS SURVEY WAS PERFORMED BETWEEN AUGUST, 1990 AND APRIL, 1991 AT THE REQUEST OF THE U.S. DEPARTMENT OF AGRICULTURE, ROGUE RIVER NATIONAL FOREST.

PROCEDURES AND EQUIPMENT USED ON THIS SURVEY

TRIMBLE NAVIGATION COMPANY MODEL 4000ST SINGLE FREQUENCY GPS RECEIVERS WERE USED IN THE STATIC MODE FOR SIMULTANEOUS COLLECTION OF NAVSTAR SATELLITE SIGNALS AT THE VARIOUS STATIONS. TRIMVEC SOFTWARE WAS EMPLOYED FOR PRIMARY DATA REDUCTION. FINAL NETWORK ADJUSTMENT AND COORDINATE DETERMINATION WAS DEVELOPED FROM TRIMNET ADJUSTMENT SOFTWARE. NGS FIRST ORDER STATIONS "SODA RM4", "ASH" AND "JUSTICE" WERE HELD FOR CONTROL AS PUBLISHED BY NGS ON NAD83(91) DATUM ON MARCH 1, 1991.

THE COORDINATES SHOWN HEREON FOR NAD 27 DATUM WERE DETERMINED BY HOLDING THE NGS VALUES PREVIOUSLY PUBLISHED ON NAD 27 DATUM FOR STATIONS "SODA RM4" AND "WOOD". THE NAD 27 DATUM AND COORDINATES ARE NOT RECOMMENDED FOR USE.

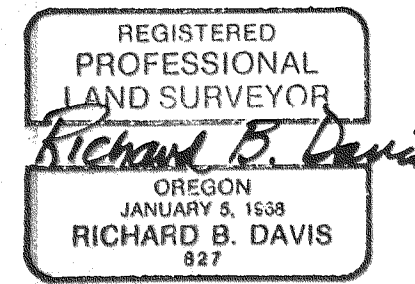
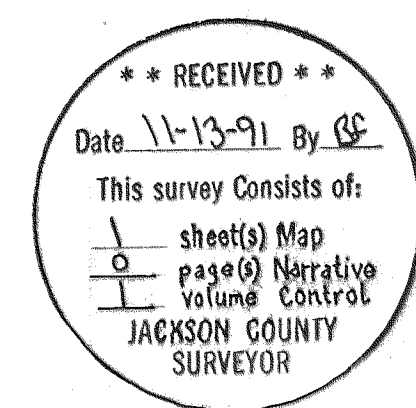
SUMMARY OF COVARIANCES
ROGUE NETWORK

(Distance in Meters)
(Azimuth in Grid)

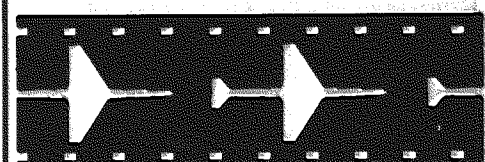
FROM	TO	AZIMUTH	S.E.	DISTANCE	S.E.	DELTA H	S.E.	HOR PREC
ASH	JHS2	310°54'08"	0.12	24354.39	0.0106	-150.18	0.0000	1: 2299565
ASH	JHS1	310°23'01"	0.11	24628.80	0.0113	-148.10	0.0000	1: 2172727
ASH	JUSTICE	311°51'18"	0.00	18373.23	0.0000	-132.86	0.0000	CONTROL
ASH	MSC1	318°07'03"	0.15	19409.87	0.0093	-150.36	0.0000	1: 2080685
ASH	SODA RM4	133°06'18"	0.00	25518.54	0.0000	+1298.71	0.0000	CONTROL
ASH	USFS	36°01'32"	0.55	2688.52	0.0082	+121.77	0.0161	1: 463033
ASH	WOOD	335°27'44"	0.13	16429.57	0.0083	+255.04	0.0395	1: 1976216
JHS2	JHS1	271°45'33"	2.96	352.52	0.0051	+2.08	0.0000	1: 69262
JHS2	JUSTICE	127°58'29"	0.48	5991.52	0.0106	+17.32	0.0000	1: 565243
JHS2	MSC1	105°20'40"	0.18	5651.52	0.0047	-0.17	0.0000	1: 1203341
JHS2	SODA RM4	132°01'20"	0.06	49553.77	0.0106	+1448.89	0.0000	1: 4678985
JHS2	USFS	127°23'13"	0.09	26758.11	0.0102	+271.98	0.0161	1: 2823017
JHS2	WOOD	94°58'10"	0.12	11627.97	0.0066	+405.22	0.0395	1: 1773180
JHS1	JUSTICE	126°04'27"	0.44	6279.39	0.0113	+15.24	0.0000	1: 553666
JHS1	MSC1	104°33'41"	0.22	5994.74	0.0059	-2.25	0.0000	1: 1017769
JHS1	SODA RM4	131°45'37"	0.06	49833.30	0.0113	+1446.81	0.0000	1: 4394748
JHS1	USFS	126°57'07"	0.09	27045.42	0.0109	+269.87	0.0161	1: 2471464
JHS1	WOOD	94°50'33"	0.13	11979.96	0.0075	+403.14	0.0395	1: 1594295
JUSTICE	MSC1	16°21'23"	0.92	2308.63	0.0133	-17.49	0.0000	1: 174076
JUSTICE	SODA RM4	132°34'41"	0.00	43599.25	0.0000	+1431.57	0.0000	CONTROL
JUSTICE	USFS	127°13'03"	0.08	20756.99	0.0059	+254.63	0.0161	1: 3639348
JUSTICE	WOOD	68°37'17"	0.24	7398.89	0.0103	+387.90	0.0395	1: 718791
MSC1	SODA RM4	135°17'04"	0.06	44556.14	0.0093	+1449.06	0.0000	1: 4795559
MSC1	USFS	133°00'57"	0.11	21623.95	0.0082	+272.12	0.0161	1: 2347335
MSC1	WOOD	85°23'12"	0.19	6164.74	0.0060	+405.39	0.0395	1: 1032830
SODA RM4	USFS	317°25'04"	0.07	22995.08	0.0061	-1176.94	0.0161	1: 3796401
SODA RM4	WOOD	321°53'43"	0.08	40893.43	0.0080	-1043.67	0.0395	1: 5129073
USFS	WOOD	327°36'01"	0.10	18057.97	0.0083	+133.27	0.0305	1: 2185743

STATION IDENTIFICATION AND COORDINATE LISTING (NAD83 (91))

STATION	NORTHING EASTING (International feet)		ELEV. (Feet)	LATITUDE (DMS)		LONGITUDE (DMS)		NAD 27 COORDINATE VALUES (NOT RECOMMENDED FOR USE)	
	NORTHING	EASTING		NORTHING	EASTING	NORTHING	EASTING	(US Survey Feet)	
ASH	207983.023	4323435.512	1626.407	42°12'56.392421" N	122°42'25.167680" W	208003.712	1402470.349		
JHS 2	260260.195	4263041.965	1333.692	42°21'16.464020" N	122°56'07.589723" W	260321.162	1342076.984		
JHS 1	260315.695	4261885.951	1340.516	42°21'16.482219" N	122°56'22.993117" W	260355.663	1340920.965		
JUSTICE	248184.764	4278537.371	1390.516	42°19'21.428301" N	122°52'36.728740" W	248225.681	1357872.350		
MSC 1	255373.621	4280922.703	1333.134	42°20'33.080859" N	122°52'07.695515" W	255414.505	1359957.710		
SODA RM4	151425.621	4363643.289	6087.258	42°03'52.995900" N	122°28'44.902800" W	151465.960	1462877.855		
USFS	206975.059	4332794.967	2225.934	42°12'49.053501" N	122°40'20.494955" W	207015.701	1411829.608		
WOOD	256997.659	4301049.996	2663.222	42°20'54.652575" N	122°47'40.378835" W	257038.494	1380085.026		



RECORD OF G.P.S. SURVEY
For
U.S. DEPT. OF AGRICULTURE
ROGUE RIVER NATIONAL FOREST
MEDFORD, OREGON



Richard B. Davis Co., Inc.
P.O. BOX 950/140 ROWDY CREEK ROAD
SMITH RIVER, CALIFORNIA 95567-0950

SHEET 1 OF 1 SHEETS