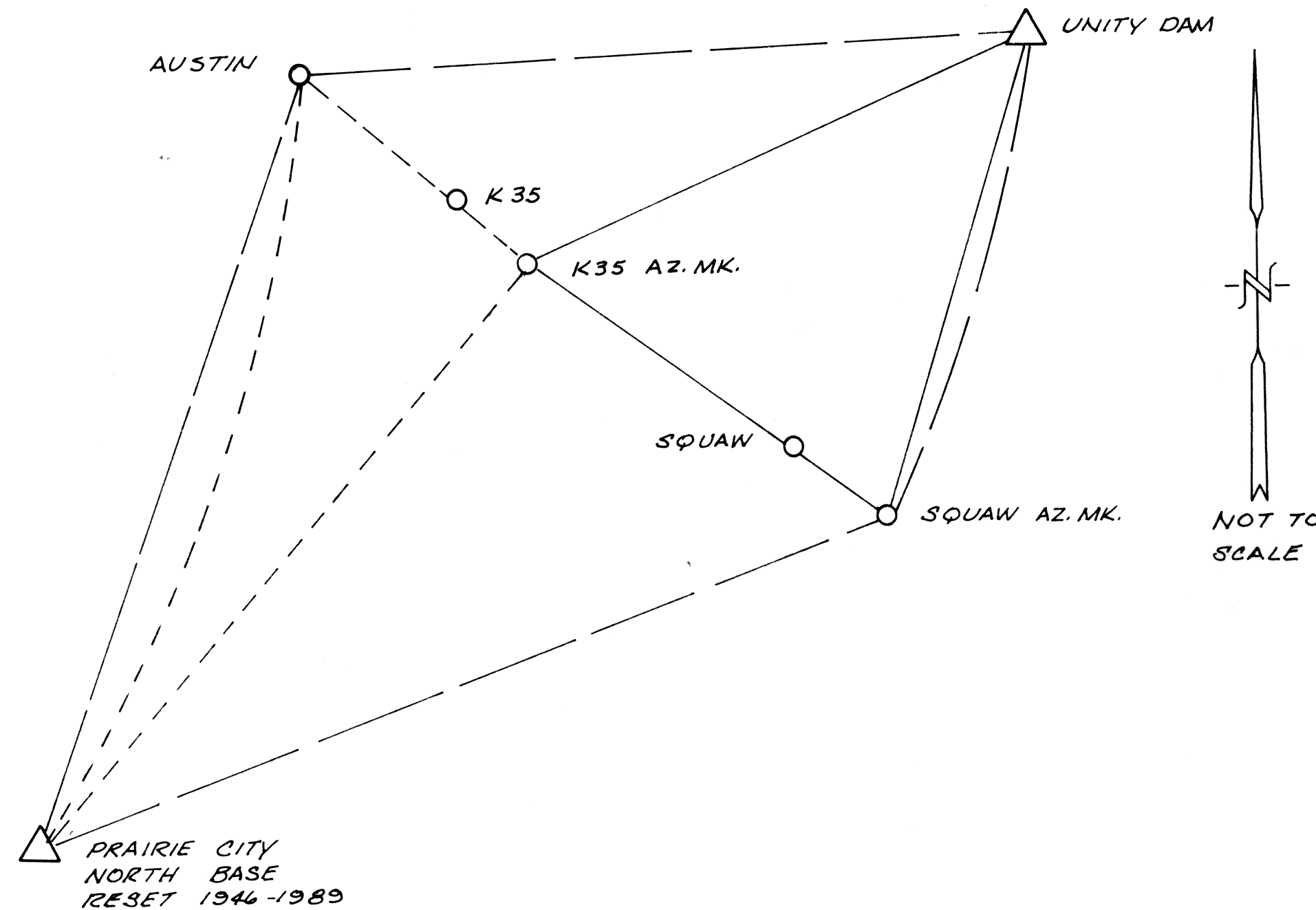


GPS CONTROL SURVEY  
FOR THE  
OREGON DEPARTMENT OF TRANSPORTATION  
ALONG HIGHWAY 26 - AUSTIN JCT.  
TO MILE POST 200.8  
BAKER AND GRANT COUNTY, OREGON  
AUGUST 29, 1991



REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
*Walter Caswell*  
OREGON  
JULY 8, 1988  
WALTER L. CASWELL  
737

**NARRATIVE :**

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH GEODETIC CONTROL AND STATE PLANE COORDINATES ON (5) MONUMENTS ALONG STATE HIGHWAY 26, FROM AUSTIN JUNCTION, EAST, TO MILE POST 200.8. THESE MONUMENTS WERE ESTABLISHED TO CONTROL GROUND SURVEY TRAVERSES.

THE PROJECT SURVEYOR WAS WALTER L. CASWELL (PLS 737) OF EAGLE GPS SURVEY CORPORATION. OREGON STATE HIGHWAY PERSONNEL AIDED IN THE OPERATIONS OF THE GPS RECEIVERS.

FOUR (4) TRIMBLE, SINGLE FREQUENCY GPS RECEIVERS WERE USED FOR DATA COLLECTION. THE DATA WAS POST PROCESSED WITH TRIMBLE SOFTWARE "TRIMVEC-PLUS" AND ADJUSTED WITH THE "GEOLAB" LEAST SQUARES ADJUSTMENT PROGRAM.

THREE SESSIONS WERE OBSERVED, WITH A MINIMUM OF 1 HOUR AND 45 MINUTES OF OBSERVATION TIME PER SESSION.

"UNITY DAM 1990" AND "PRAIRIE CITY NORTH BASE 1946-1989" ARE ORDER "B" STATIONS IN THE OREGON STATE HIGH PRECISION NETWORK, AND WERE USED FOR HORIZONTAL CONTROL. "PRAIRIE CITY NORTH BASE", "K 35" AND "SQUAW" WERE USED FOR VERTICAL CONTROL. HORIZONTAL DATUM, NAD 83(1991), VERTICAL DATUM NGVD 29.

TRIMBLE NAVIGATION LTD., STATE PLANE CONVERSION UTILITY  
BY: EAGLE GPS SURVEY CORPORATION, INC.  
DATUM: NAD83(91)  
ZONE : 3601 OREGON NORTH  
STATE PLANE IN: INTERNATIONAL FEET  
PROJECT SURVEYOR-LAYNE CASWELL, PLS 737  
COORDINATE SOURCE (GEOLAB): H:\HWY26\GEON\HWY26\_C.LST

OREGON STATE HWY. 26  
AUSTIN JCT. TO MILE POST 200.8

LATITUDE	LONGITUDE	ELEVATION(M)	NORTHING	EASTING	ELEVATION(FT)	CONVERGENCE	SCALE FACTOR	STATION NAME
44:25'41.10620" N	118:42'13.25136" W	1115.896	288887.451	8671193.516	3661.07	1:16'26.127"	0.999973805	PRAIRIE CITY N.BASE
44:29'50.58302" N	118:11'10.78856" W	1180.421	311503.625	8805713.146	3872.77	1:38'26.960"	0.999962726	UNITY DAM
44:34'25.99181" N	118:30' 3.84425" W	1291.649	337193.183	8722929.316	4237.69	1:25' 3.413"	0.999948103	AUSTIN
44:32'30.02963" N	118:19'38.61591" W	1475.919	326622.590	8768486.177	4842.24	1:32'26.816"	0.999954046	SQUAW AZ.MK.
44:34'37.35174" N	118:24'51.31688" W	1309.409	338914.983	8745514.207	4295.95	1:28'45.053"	0.999947538	K35 AZ.MK.
44:32'38.91709" N	118:20'12.73836" W	1495.483	327455.965	8765991.693	4906.43	1:32' 2.617"	0.999953579	SQUAW
44:34'47.16304" N	118:25'13.74099" W	1303.435	339866.375	8743866.129	4276.35	1:28'29.150"	0.999947052	K35

FROM MINIMALLY CONSTRAINED ADJUSTMENT

2-D AND 1-D RELATIVE STATION CONFIDENCE REGIONS ( 95.000 %)

FROM	TO	MAJ.SEMI	MIN.SEMI	AZ(MAJ)	VERTICAL	SPATIAL DIST.	PRECISION
0135	0002	0.0235	0.0130	2.39	0.0283	27063.9240	0.869 PPM
0135	0001	0.0233	0.0129	1.95	0.0280	21579.7942	1.080 PPM
0135	0005	0.0239	0.0135	2.76	0.0301	31816.6635	0.750 PPM
0135	1053	0.0250	0.0149	2.49	0.0337	41585.6292	0.601 PPM
0135	0003	0.0235	0.0130	2.32	0.0283	27313.7933	0.859 PPM
1053	0004	0.0091	0.0072	178.65	0.0187	13054.0066	0.699 PPM
1053	0001	0.0147	0.0099	3.09	0.0239	26425.9255	0.557 PPM
1053	0005	0.0091	0.0072	178.31	0.0185	12253.4298	0.742 PPM
1053	0003	0.0103	0.0082	178.66	0.0219	20166.4644	0.513 PPM
0001	0002	0.0116	0.0061	4.99	0.0137	6434.9747	1.798 PPM
0001	0005	0.0125	0.0075	4.86	0.0180	14259.5397	0.876 PPM
0001	0003	0.0115	0.0061	4.77	0.0137	6905.6109	1.667 PPM
0005	0004	0.0017	0.0013	20.96	0.0039	802.0868	2.082 PPM
0005	0003	0.0062	0.0050	2.61	0.0147	7945.1159	0.786 PPM
0003	0004	0.0062	0.0050	2.97	0.0148	7156.6456	0.871 PPM
0003	0002	0.0024	0.0013	15.92	0.0026	580.2041	4.155 PPM

EAGLE GPS SURVEY CORPORATION  
13545 N.W. SCIENCE PARK DRIVE  
PORTLAND, OREGON 97229  
(503) 643-1073 OR (503) 644-3179

FILED Feb. 24, 1992  
BAKER COUNTY SURVEYOR  
SURVEY NO. 12-37-66  
12-36-64

SHEET 1/8  
JOB NO 91-012