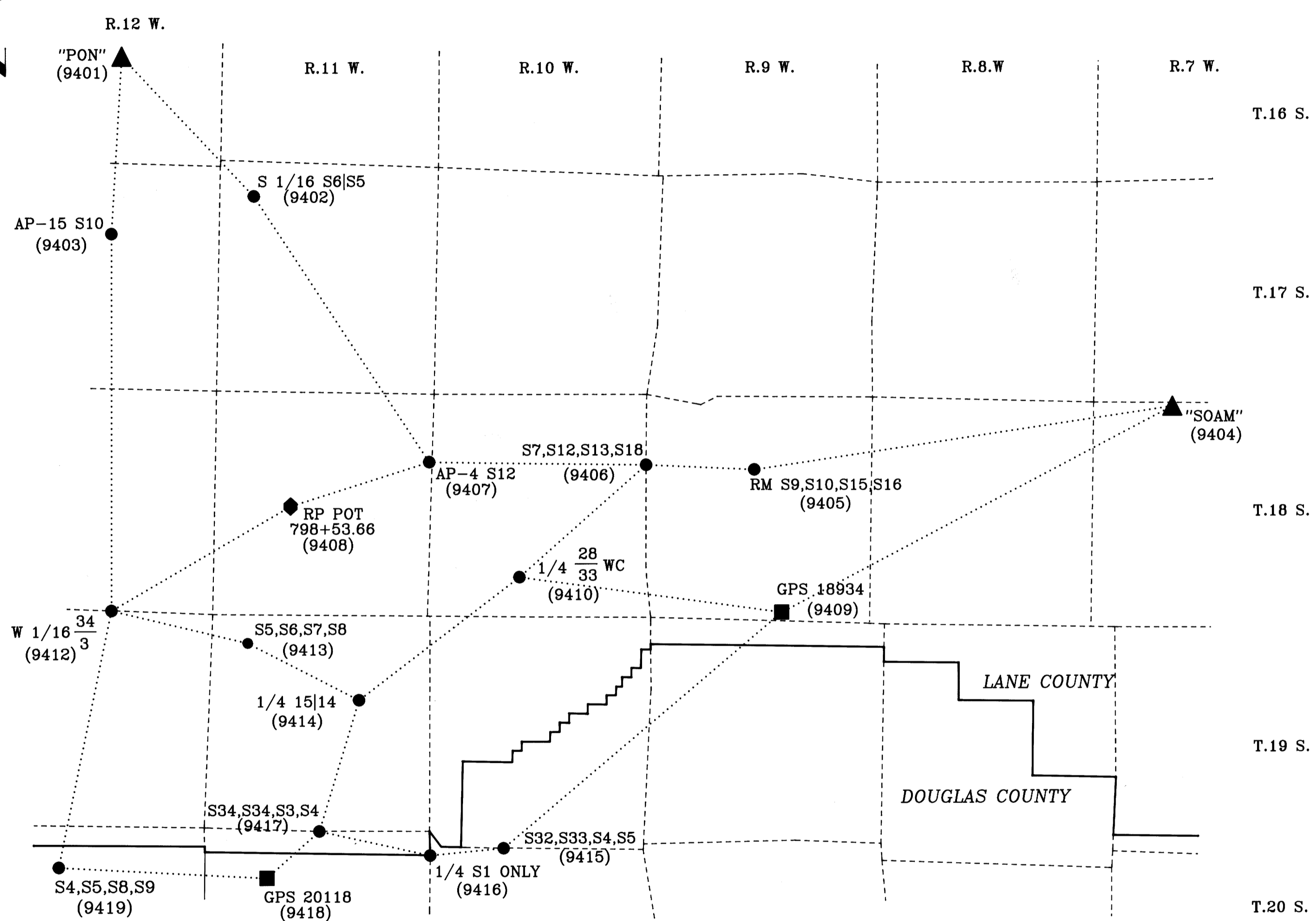
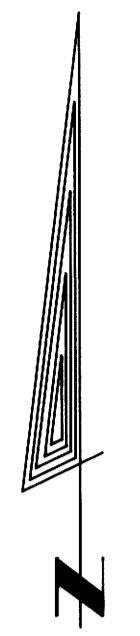
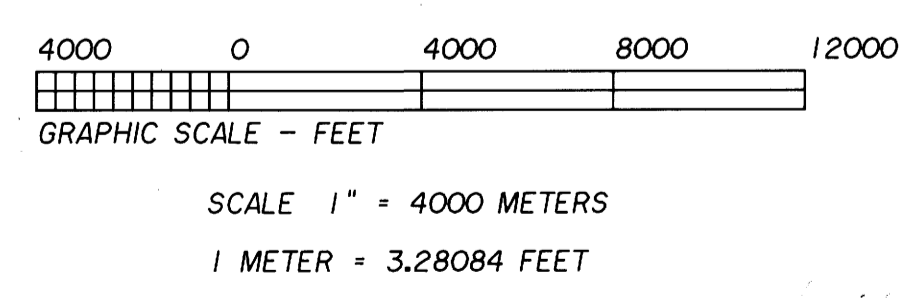


SURVEY FOR THE
SIUSLAW NATIONAL FOREST
MAPLETON RANGER DISTRICT
LANE & DOUGLAS COUNTIES
SEPTEMBER 1994

FILED
Date: 2-22-96 By: *JP*
This survey consists of: 4 Pgs.
Map: M/23-33A
Narrative: _____
Corner Pkt: _____
DOUGLAS COUNTY
SURVEYOR



- ▲ OREGON HIGH PRECISION GPS POINT
- SIUSLAW N.F. GPS POINT
- PUBLIC LAND SURVEY CORNER
- ◆ USBPR MONUMENT
- TOWNSHIP LINES
- _____ COUNTY LINES
- (9401) PROJECT POINT NUMBER



REGISTERED
PROFESSIONAL
LAND SURVEYOR
Michael J. Schwartz
OREGON
JULY 18, 1980
MICHAEL J. SCHWARTZ
1922
EXPIRATION DATE:
6/30/96

NOTE: SEE FOLLOWING SHEETS FOR NARRATIVE
REPORT AND CORNER INFORMATION

**COUNTY SURVEYORS FILE DATA
DO NOT REMOVE FROM OFFICE**

MAP FILE M/23-33A

MAP FILE M/23-33A

**GPS SURVEY FOR THE
SIUSLAW NATIONAL FOREST
LANE & DOUGLAS COUNTIES
SEPTEMBER 1994
MAPLETON R.D.**

FILED

Date: 2-22-96 By: JP
This survey consists of: 4 Pgs.
Map: M/23-33 B
Narrative: _____
Corner Rpt: _____

DOUGLAS COUNTY
SURVEYOR

9401 - "PON" in Section 22, T.16 S., R.12 W.

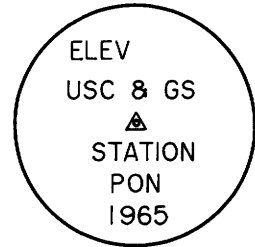
Found a brass disk on a 3" pipe in a monument box, marked as shown:

1927
Latitude: 44°10'12.69501" Longitude: 124°06'54.99201"

1983(1991) HPGN
Latitude: 44°10'12.11445" Longitude: 124°06'59.36918"

Ellipsoidal Height: -15.929(m)
Geoid Height: -22.487(m)
Orthometric Height: 7.050(m)

1983(1991) HPGN PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	284,341.392	1,210,840.753	-2°28'27.167"
UTM	10	4,891,364.188	410,742.151	-0°46'40.841"



9405 - Reference Monument to corner for Sections, 9,10,15, & 16, T.18 S., R.9 W.

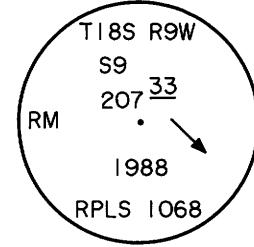
Found an 2" brass cap on a 1" iron pipe, marked as shown:

1927
Latitude: 44°00'47.03625" Longitude: 123°46'23.86317"

1983(1991)
Latitude: 44°00'46.45444" Longitude: 123°46'28.19811"

Ellipsoidal Height: 96.461(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	265,770.192	1,237,487.823	-2°14'24.865"
UTM	10	4,873,597.615	437,918.585	-0°32'17.359"



9402 - S 1/16 corner between Sections 5 & 6, T.17 S., R.11 W.

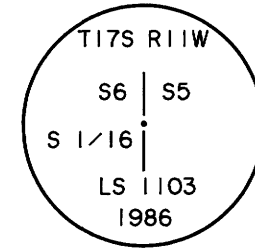
Found a 3 1/4" aluminum cap on an aluminum pipe, marked as shown:

1927
Latitude: 44°07'00.48232" Longitude: 124°02'36.08791"

1983(1991)
Latitude: 44°06'59.90522" Longitude: 124°02'40.45813"

Ellipsoidal Height: 381.032(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	278,168.024	1,216,336.651	-2°25'30.034"
UTM	10	4,885,358.374	416,416.485	-0°43'37.886"



9406 - Corner to sections 7,12,13,18, T.18 S., R.9 W. T.18 S., R.10 W.

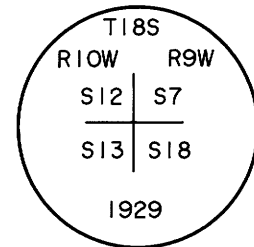
Found a GLO brass cap on an iron pipe, marked as shown:

1927
Latitude: 44°00'52.37413" Longitude: 123°49'53.23557"

1983(1991)
Latitude: 44°00'51.79550" Longitude: 123°49'57.57831"

Ellipsoidal Height: 214.630(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	266,118.839	1,232,834.119	-2°16'48.112"
UTM	10	4,873,807.833	433,258.223	-0°34'42.911"



9403 - Angle Point corner "AP-15" in Section 15, T.17 S., R.12 W.

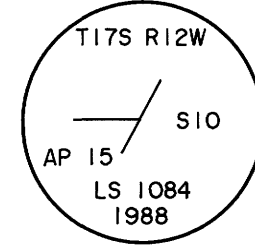
Found a 3 1/4" aluminum cap on an aluminum pipe 6" above the ground, marked as shown:

1927
Latitude: 44°06'05.68119" Longitude: 124°07'10.89145"

1983(1991)
Latitude: 44°06'05.10504" Longitude: 124°07'15.26880"

Ellipsoidal Height: 18.267(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	276,739.484	1,210,158.303	-2°28'38.045"
UTM	10	4,883,747.989	410,285.232	-0°46'48.454"



9407 - Angle Point corner "AP-4" in Section 12, T.18 S., R.11 W.

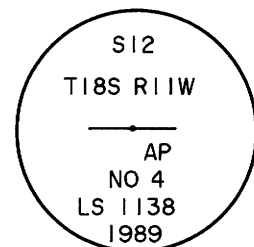
Found a 3 1/4" aluminum cap on an aluminum pipe at ground level, marked as shown:

1927
Latitude: 44°00'53.41542" Longitude: 123°56'51.97825"

1983(1991)
Latitude: 44°00'52.84321" Longitude: 123°56'56.33640"

Ellipsoidal Height: -20.655(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	266,528.702	1,223,515.596	-2°21'34.604"
UTM	10	4,873,940.892	423,934.820	-0°39'33.930"



9404 - "SOAM", in Section 5, T.18 S., R.7 W.

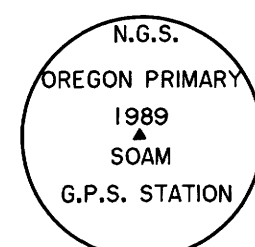
Found a brass disk set in a mass of concrete, 8" in diameter at ground surface, marked as shown:

1927
Latitude: 44°02'19.08979" Longitude: 123°32'55.14728"

1983(1991) HPGN
Latitude: 44°02'18.51325" Longitude: 123°32'59.47848"

Ellipsoidal Height: 136.894(m)
Geoid Height: -21.312(m)
Orthometric Height: 158.5(m)

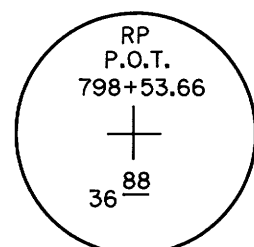
1983(1991) HPGN PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	267,929.671	1,255,592.451	-2°05'11.581"
UTM	10	4,876,293.241	455,944.329	-0°22'56.039"



REGISTERED
PROFESSIONAL
LAND SURVEYOR

Michael J. Schwartz
OREGON
JULY 18, 1980
MICHAEL J. SCHWARTZ
1922

EXPIRATION DATE:
6/30/96



9408 - R.P. POT STA. 798+53.66 (U.S.B.P.R.) in Section 21, T.18 S., R.11 W.

Found a brass disk set in a mass of concrete, marked as shown:

1927
Latitude: 43°59'49.57419" Longitude: 124°01'18.60066"

1983(1991)
Latitude: 43°59'49.00553" Longitude: 124°01'22.96760"

Ellipsoidal Height: -20.558(m)

1983(1991) PLANE COORDINATES				
GRID	ZONE	NORTHING METERS	EASTING METERS	CONVERGENCE
SPC	OR S	264,807.261	1,217,498.912	-2°24'37.019"
UTM	10	4,872,042.343	417,973.785	-0°42'38.405"

COUNTY SURVEYORS FILE DATA
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MAP FILE M/23-33B

MAP FILE M/23-33B

GPS SURVEY FOR THE SIUSLAW NATIONAL FOREST LANE & DOUGLAS COUNTIES SEPTEMBER 1994 MAPLETON R.D.

FILED

Date: 2-22-96 By: JP
This survey consists of: 4 Pgs.
Map: M123-33C
Narrative: _____
Corner Rpt: _____

DOUGLAS COUNTY
SURVEYOR

9409 - GPS point "GPS 18934" in Section 34, T.18 S., R.9 W.

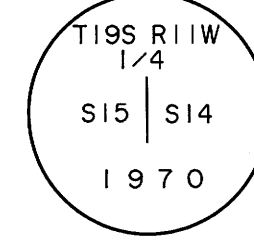
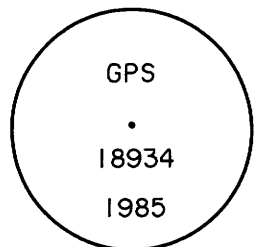
Found a 3 1/4" aluminum cap on an aluminum pipe, marked as shown:

1927
Latitude: 43°57'28.75543" Longitude: 123°45'28.48414"

1983(1991)
Latitude: 43°57'28.17333" Longitude: 123°45'32.81581"

Ellipsoidal Height: 438.108(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	259,606.905	1,238,482.413	0.9999896	-2°13'46.975"
UTM	10	4,867,468.741	439,095.427	0.9996456	-0°31'36.984"



9410 - 1/4 Corner (Witness Corner) between Sections 28 & 33, T.18 S., R.10 W.

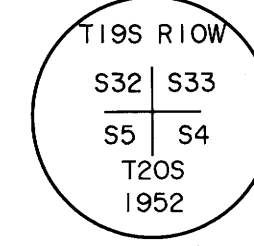
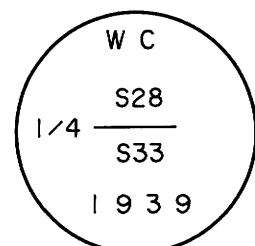
Found a GLO brass cap on an iron pipe, marked as shown:

1927
Latitude: 43°58'14.81771" Longitude: 123°53'55.89326"

1983(1991)
Latitude: 43°58'14.24245" Longitude: 123°54'00.24329"

Ellipsoidal Height: 10.292(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	261,477.274	1,227,235.949	0.9999927	-2°19'34.130"
UTM	10	4,869,003.736	427,802.174	0.9996641	-0°37'29.764"



9412 - W 1/16 corner between Sections 34 & 3, T.18 S., R.12 W. T.19 S., R.12 W.

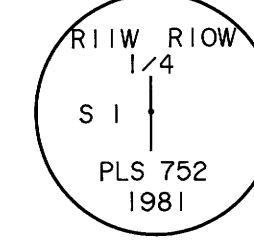
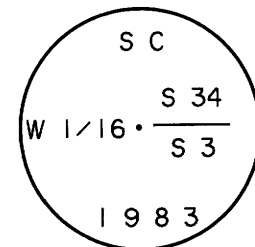
Found a BLM brass cap and iron pipe, marked as shown:

1927
Latitude: 43°57'21.35892" Longitude: 124°07'02.40626"

1983(1991)
Latitude: 43°57'20.78697" Longitude: 124°07'06.78063"

Ellipsoidal Height: 28.426(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	260,563.404	1,209,647.907	0.9999891	-2°28'32.238"
UTM	10	4,867,568.883	410,254.429	0.9996991	-0°46'35.186"



9413 - Corner to sections 5,6,7, & 8, T.19 S., R.11 W.

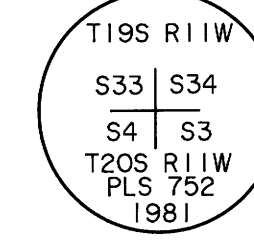
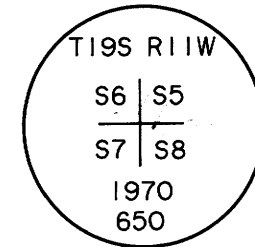
Found a BLM brass cap on an iron pipe, marked as shown:

1927
Latitude: 43°56'38.55870" Longitude: 124°02'38.43636"

1983(1991)
Latitude: 43°56'37.98635" Longitude: 124°02'42.80240"

Ellipsoidal Height: 185.607(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	258,991.944	1,215,472.226	0.9999862	-2°25'31.638"
UTM	10	4,866,171.276	416,121.064	0.9996865	-0°43'31.362"



9414 - 1/4 Corner between Sections 14 & 15, T.19 S., R.11 W.

Found a 3 1/4" aluminum cap on an aluminum pipe at ground level, marked as shown:

1927
Latitude: 43°55'21.19086" Longitude: 123°59'02.53147"

1983(1991)
Latitude: 43°55'20.61655" Longitude: 123°59'06.88969"

Ellipsoidal Height: -8.330(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	256,404.057	1,220,183.530	0.9999812	-2°23'03.922"
UTM	10	4,863,725.075	420,905.644	0.9996769	-0°41'00.546"

9415 - Corner to Sections 32,33,4, & 5, T.19 S., R.10 W. T.20 S., R.10 W.

Found a BLM brass cap on an iron pipe, marked as shown:

1927
Latitude: 43°51'57.47325" Longitude: 123°54'21.09910"

1983(1991)
Latitude: 43°51'56.89397" Longitude: 123°54'25.44566"

Ellipsoidal Height: 4.404(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	249,863.454	1,226,200.974	0.9999687	-2°19'51.372"
UTM	10	4,857,367.977	427,112.771	0.9996653	-0°37'42.961"

9416 - 1/4 Corner for Section 1 only, T.20 S., R.11 W.

Found an aluminum cap buried 4" below the road surface, marked as shown:

1927
Latitude: 43°51'46.10259" Longitude: 123°56'42.22939"

1983(1991)
Latitude: 43°51'45.52374" Longitude: 123°56'46.57997"

Ellipsoidal Height: 281.640(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	249,641.742	1,223,037.794	0.9999680	-2°21'27.929"
UTM	10	4,857,052.497	423,958.520	0.9996711	-0°39'20.641"

9417 - Corner to Sections 33,34,3, & 4, T.19 S., R.11 W. T.20 S., R.11 W.

Found a brass cap on an iron pipe, marked as shown:

1927
Latitude: 43°52'18.15972" Longitude: 124°00'16.12872"

1983(1991)
Latitude: 43°52'17.58234" Longitude: 124°00'20.48614"

Ellipsoidal Height: -14.902(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	250,828.490	1,218,306.763	0.9999699	-2°23'54.272"
UTM	10	4,858,097.923	419,195.731	0.9996803	-0°41'49.291"

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Michael J. Schwartz
OREGON
JULY 18, 1980
MICHAEL J. SCHWARTZ
1922

EXPIRATION DATE:
6/30/96

COUNTY SURVEYORS FILE DATA
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GPS SURVEY FOR THE
SIUSLAW NATIONAL FOREST
LANE & DOUGLAS COUNTIES
SEPTEMBER 1994
MAPLETON R.D.

FILED

Date: 2-22-96 By: AP
This survey consists of: 4 Pts
Map: M123-330
Narrative: _____
Corner Rpt: _____

DOUGLAS COUNTY
SURVEYOR *sc*

MAP FILE M123-330

9418 - GPS Point "GPS 20118" in Section 8, T.20 S., R.11 W.

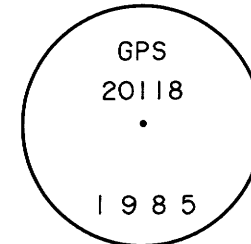
Found a 3/4" aluminum cap on an aluminum pipe in concrete at ground level, marked as shown:

1927
Latitude: 43°51'12.06744" Longitude: 124°01'56.36457"

1983(1991)
Latitude: 43°51'11.48907" Longitude: 124°02'00.72392"

Ellipsoidal Height: 217.406(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	248,884.511	1,215,984.707	0.9999660	-2°25'02.850"
UTM	10	4,856,086.432	416,933.062	0.9996849	-0°42'57.913"



9419 - Corner to Sections 4,5,8, 8 9, T.20 S., R.12 W.

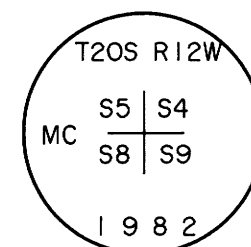
Found a BLM brass cap on an iron pipe, marked as shown:

1927
Latitude: 43°51'23.08511" Longitude: 124°08'37.98647"

1983(1991)
Latitude: 43°51'22.50818" Longitude: 124°08'42.35827"

Ellipsoidal Height: -12.526(m)

1983(1991) PLANE COORDINATES					
GRID	ZONE	NORTHING METERS	EASTING METERS	SCALE FACTOR	CONVERGENCE
SPC	OR S	249,608.590	1,207,037.800	0.9999666	-2°29'37.627"
UTM	10	4,856,544.512	407,971.043	0.9997042	-0°47'36.382"



PURPOSE:

The primary purpose of this GPS Survey was to provide coordinates for existing Public Land Survey corners and existing Geodetic Control Points on the Forest.

EQUIPMENT:

The survey was performed using two Trimble 4000ST and one Trimble 4000SE (Field Surveyor) GPS receivers with the computations being performed on a Tangent 486 computer.

FIELD PROCEDURES:

Instrument heights were measured at least two times during each observation session. During the course of the survey, observation sessions were conducted three times at points, 9409 and 9412; two times at 9402, 9403, 9405, 9406, 9407, 9408, 9410, 9414, 9416, 9417, and 9418; and the remainder of the points being occupied once. Meteorological values were not measured during the observation sessions.

A minimum of 1 1/2 hours of simultaneous data was recorder at all observation sessions.

OFFICE PROCEDURES:

Baseline computations were performed daily. Trimble's "TRIMVEC-PLUS" software was used to batch process the baselines (both trivial and non-trivial) for incorporation into the final network. Once baseline vectors were determined, the Trimvec program "TCLOSE" was used to check loop closures for the network. The poorest loop closure was 1:490,000.

Upon completion of the field work, Trimvec's least square network adjustment program "TRIMNET" was used to adjust the network. The poorest baseline vector value for the 'unconstrained' adjustment, was 1:555,000.

The network was then constrained using two of the National Geodetic System (NGS) States High Precision Geodetic Network (HPGN - NAD1983-1991) GPS points, 9401 = "PON", 9404 = "SOAM", and 9403, "AP-15" for Latitude and Longitude. "AP-15" had been controlled by Lane County and upon evaluation of a constrained position using "PON" and "SOAM", Latitude and Longitude values for "AP-15" were within less than a tenth of a foot and I therefore felt the 1983(1991) position supplied by Lane County should be held. Upon constraining the network using these three points, the poorest baseline vector was 1:218,000.

I then used the NGS North American Datum Conversion program "NADCON" (version 2.10) to compute 1927 Latitudes and Longitudes.

I, Michael J. Schwartz, a Registered Land Sureyor in the State of hereby certify that this plat and the notes hereon are a true representation of a GPS survey I conducted at the request of the USDA Forest Service, in accordance with the Statutes of the State of Oregon.

Michael J. Schwartz
Michael J. Schwartz, RLS 1922
Expiration date: 6/30/96
Phone (503) 750-7175
Siuslaw National Forest
4077 SW Research Way
Corvallis, OR 97339-1148

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Michael J. Schwartz
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JULY 18, 1980
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1922

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COUNTY SURVEYORS FILE DATA
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MAP FILE M123-330