SEE MAP IN LARGE SURVEY FILE FOR CCR 1

United States Department of Agriculture | Forest Service | Siuslaw National Forest | 4077 S.W. Research Way
P.O. Box 1148
Corvallis, OR 97339-1148

Reply To: 7150

Date: October 8, 1991

Ms. Danna L. Fehrenbacher, LS
Benton County Surveyor
360 S. W. Avery Ave.
Corvallis, Oregon 97333

Dear Ms. Fehrenbacher:

Enclosed for filing in your office is a plat of a Global Positioning Survey (GPS) that was completed by us during the last two weeks of August 1991. Please file this map of survey in your records, and return one Xerox or blue line copy to us with the filing information affixed to said map. Also, please return the copies rolled up in a mailing tube, not folded.

Your cooperation is appreciated.

Sincerely,

Randall M. Zanon, LS

David A. Schlaich, LS

Enclosure(s)

*INFORMATION REVIEWED BY: R. ZANON 10-91

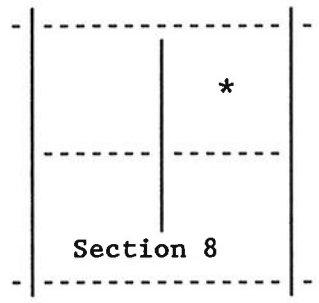
INDEX FILE NO. F-08
RANGER DISTRICT ALSEA
SIUSLAW NATIONAL FOREST
CORNER NE 1/16 TOWNSHIP 15S RANGE 9W
COUNTY LINCOLN & LANE

IS THIS CORNER ON A PROPERTY LINE(YES-NO)? YES
IF YES, IN WHICH DIRECTIONS ARE THE PROPERTY LINES?

REMARKS

NORTH POSTED IN 1982, CS 25704
WEST POSTED IN 1982, CS 25704
MAINTAINED 1991, USFS S.O.

CORNER DIAGRAM



PREVIOUS RENEWALS/SURVEYS, AND
MONUMENT(S) & ACCESSORIES FOUND OR SET:(CONDITION AND SOURCE)

1982, J. Prochnau(RLS 1305) in CS# 25704 set an alum. pipe
and cap, from which:
Brass Cap for Reference Monuments:
N 57 W, 17.72 ft., marked: "RM T15SR9W NE1/16 S8 PLS1305 1982"
N 35 E, 18.08 ft., marked: "RM T15SR9W NE1/16 S8 PLS1305 1982"

1991, R. ZANON, LS 1959 (LINCOLN CS# 13552 & LANE COUNTY
CORNER REST.# 11888), FOUND THE 1982 CAP LYING ON THE GROUND;
NO EVIDENCE OF THE ALUMINUM POST WAS RECOVERED;
ALSO FOUND THE NE REFERENCE MONUMENT FIRMLY SET IN GOOD CONDITION.
AT RECORD BEARING & DISTANCE FROM THE NE RM, HE SET AN ALUMINUM CAP
MONUMENT, 8 INCHES BELOW THE GROUND SURFACE, FROM WHICH:
1982 RM, N 35 E, 18.1 FT, STAMPED:
"T15SR9W RM NE1/16 S8 18.08 1982 PLS 1305".
SET A NEW REFERENCE MONUMENT:
ALUMINUM CAP MONUMENT, N 52-1/2 W, 18.3 FT., STAMPED: "T15SR9W RM
NE1/16 S8 S52-1/2E 18.3 1991 RLS 1959".

In 1991, USFS personnel found the corner as described and occupied
it during the Indian Creek GPS survey (Point 9116).

MONUMENT DETAIL

T15S R9W
NE 1/16 S8
1991
RLS 1959

LOCATION & COMMENTS:

FROM JCT. OF HIGHWAY 34 AND FIVE RIVERS ROAD, TRAVEL UP FIVE RIVERS ROAD 11.9 MILES TO A K-TAG ON AN 8" ALDER ON WEST SIDE OF ROAD; CORNER LIES IN PASTURE ON EAST SIDE OF ROAD, APPROX. 275 FT. EAST OF THE K-TAG; SW CORNER OF A BARN BEARS N 67 E, 85.8 FT. FROM THE CORNER MONUMENT.

PHOTO IDENTIFICATION DATA
Photo No.: Filed at:

Object. Ident.: Ident. by:

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 16 59.76860 Longitude: 123 48 01.07849
Ellipsoid Height: 59.662m Geoid Height: -21.209m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR N	73,899.698m	2,236,628.026m	-2 20 25.9
SPC	OR S	295,870.966m	1,236,604.143m	-2 15 28.4

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 17 00.36913 Longitude: 123 47 56.72488
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR N	242,498.67 ft	1,136,214.29 ft	-2 20 22.8
SPC	OR S	970,740.68 ft	1,136,135.89 ft	-2 15 25.4

Established by (Agency): USFS 1991

INFORMATION REVIEWED BY: R. ZANON 10-91

STATION: GPS 150820
USGS QUAD: DIGGER MTN
TOWNSHIP 15S RANGE 8W SECTION 17
COUNTY Lane

PREVIOUS RENEWALS/SURVEYS, ETC.:
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1985, USFS establish the GPS point which is a 3 1/4" aluminum cap on a 1" Al. pipe marked, "GPS 15820 1985". (Point No. 15817 is used by GPS Northwest on the Ortho-Photo control survey).

1991, M.Schwartz & R.Zanon (USFS) find the cap in good condition. The point is occupied during the Indian Creek GPS survey (Point 9117).

LOCATION & COMMENTS:

From the jct of FS Roads #35 and #63, go up #63 1.3 miles to the ridgetop and then left on BLM Road #15-8-18.1. Go 0.1 miles to the junction with FS Road #6300-123; stay left(123 goes right) and continue on FS Road #6300-112 and go 0.45 miles to BLM Road # 15-8-17.1 which goes to the right. Go on #15-8-17.1 to the end and the GPS point which is on the east side of the landing set flush with the ground.

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 15 30.35369 Longitude: 123 40 53.81628
Ellipsoid Height: 487.000m Geoid Height: -21.006m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	292,746.291m	1,245,966.797m	-2 10 36.1
SPC	OR N	70,761.967m	2,245,985.647m	-2 15 22.9

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 15 30.94849 Longitude: 123 40 49.47737
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	960,489.10 ft	1,166,853.07 ft	
SPC	OR N	232,204.27 ft	1,166,914.97 ft	

Observation by (Agency): GPS Northwest for USFS 1985

INFORMATION REVIEWED BY: R. ZANON 10-91

STATION: GPS 151003
USGS QUAD: CANIBAL MTN
TOWNSHIP 15 S RANGE 10 W SECTION 3
COUNTY Lincoln

PREVIOUS RENEWALS/SURVEYS, ETC.:
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1985, USFS establish GPS 15103. The point is a USFS 3 1/4" aluminum cap on 1" Rebar set in concrete marked, "GPS 15103 1985".

1986, Rob Ward (LS 1091), found and tied to the GPS point in Lincoln County Survey 11320.

OCTOBER 1990, T. McKee & R. Zanon (USFS) as part of Alsea River GPS (Point 0061) found the point as described.

AUGUST 1991, R. Zanon (USFS) found the point as described and occupied it for Indian Creek GPS survey (Point 9104).

LOCATION & COMMENTS:

From Yachats head east on FS road 54 to jct with FS 58, turn left and go 0.25 miles, turn right 2.6 miles on FS 3705; 0.3 miles at jct 3705-112 to GPS (State Wildlife barricade blocks access to GPS point, walk out spur 112 for approx 500 feet to point on northeast edge of landing).

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991) Super Net
Latitude: 44 17 30.74845 Longitude: 123 53 00.76904
Ellipsoid Height: 274.652m Geoid Height: -21.350m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR N	75,129.898m	2,230,028.555m	-2 23 58.4

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (Adjusted using Lincoln Co. Control)
Latitude: 44 17 30.78399 Longitude: 123 53 00.80689
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR N	75,131.029m	2,230,027.763m	-2 23 58.5

Established by (Agency): USFS 1990

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 17 31.35442 Longitude: 123 52 56.40604
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	246,534.94 ft	1,114,562.60 ft	-2 23 55.3

Established by (Agency): GPS Northwest for USFS 1985

*INFORMATION REVIEWED BY: R. ZANON 4/92

STATION: GPS 151034
USGS QUAD: GOODWIN PEAK
TOWNSHIP 15 S RANGE 10 W SECTION 34
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1991, USFS personnel establish GPS 151034 during the Indian Creek GPS survey (Point 9105). The point is a 3 1/4" USFS aluminum cap on a 3/4" iron rod set in concrete flush with the ground. The cap is stamped "GPS 151034 1991".

1992, L. Bishop, LS 896 (CS 30436), found a 3" diameter aluminum cap marked "GPS 151034 1991", set flush with the ground in concrete.

LOCATION & ACCESS:

From the the jct. of FS roads 37 and 3250 take 3250 southeasterly 1.0 mile to the point which is located near the southerly edge of the asphalt.

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 13 34.10151 Longitude: 123 52 54.99443
Ellipsoid Height: 360.070m Geoid Height: -21.414m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	289,787.520m	1,229,835.414m	-2 18 49.5

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 13 34.70254 Longitude: 123 52 50.62926
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	950,781.82 ft	1,113,929.40 ft	-2 18 46.5

Established by (Agency): USFS 1991

*INFORMATION REVIEWED BY: R. ZANON 4/92

STATION: GPS 161004
USGS QUAD: GOODWIN PEAK
TOWNSHIP 16 S RANGE 10 W SECTION 4
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1991, USFS personnel establish GPS 161004 during the Indian Creek GPS survey (Point 9106). The point is a 3 1/4" USFS aluminum cap on a 3/4" iron rod set in concrete flush with the ground. The cap is stamped "GPS 161004 1991".

1992, L. Bishop, LS 896 (CS 30436), found a 3" diameter aluminum cap marked "GPS 161004 1991", set flush with the ground in concrete.

LOCATION & ACCESS:

From the the jct. of FS roads 58 and 5800-680 travel easterly on 5800-680 approx. 1.5 miles to the point which is located 15 ft. south of the road and 5 ft. west of an orange fiberglass post.

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 12 49.31043 Longitude: 123 53 36.01521
Ellipsoid Height: 346.802m Geoid Height: -21.456m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	288,442.879m	1,228,869.650m	-2 19 17.6

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 12 49.91101 Longitude: 123 53 31.64903
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	946,370.23 ft	1,110,760.95 ft	-2 19 14.6

Established by (Agency): USFS 1991

*INFORMATION REVIEWED BY: R. ZANON 10-91

STATION: GPS 161113
USGS QUAD: GOODWIN PEAK
TOWNSHIP 16 S RANGE 11 W SECTION 13
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1991, USFS personnel establish GPS 161113 during the Indian Creek GPS survey (Point 9107). The point is a 2 3/8" orange plastic cap on a 5/8" iron rod set in concrete flush with the ground. The cap is stamped "USFS GPS 161113 1991".

LOCATION & ACCESS:

From the the jct. of FS roads 58 and 1055 go west on 1055, 0.05 mile to the first gravel road left. Go SW on gravel road 0.05 mile to waste area and GPS point.

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 10 38.22373 Longitude: 123 58 03.94973
Ellipsoid Height: 453.851m Geoid Height: -21.696m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	284,643.650m	1,222,758.798m	-2 22 20.9

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 10 38.82398 Longitude: 123 57 59.57568
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	933,905.39 ft	1,090,712.51 ft	-2 22 17.9

Established by (Agency): USFS 1991

*INFORMATION REVIEWED BY: M.SCHWARTZ 9/93

STATION: GPS 17921
USGS QUAD: MAPLETON
TOWNSHIP 17 S RANGE 9 W SECTION 20
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1985, USFS establish GPS 19934 as an eccentric to BM "FF 237" (Elevation = 58.622 m). The point is a 3/8" Rebar. (NOTE a 5/8" Rebar, bent over is approx 1 ft. SE of the point and a lone 8" Fir tree bears N 78 W, 30.9 ft.).

1991, T. McKee & B. Harper (USFS), found a 1/2" dia. iron rod firmly set. They attached a 2 3/8" dia. orange plastic cap stamped: 'GPS 170921 1985 1991" to the iron rod, and placed concrete around the station mark; also set a 6-ft. fiberglas post 3.3 ft. SW. Point was occupied in Indian Creek GPS survey (9115).

1993, L. Bishop(RLS 896) in CS# 31446 found the monument as described in 1991

LOCATION & COMMENTS:

The point is in the SW corner of the Camp Indiola tavern parking lot on a flat area NW of the Hwy 36. To reach the point from Swisshome travel east on Hwy 36 2.3 miles. (1991 note: tavern burned down.... manufactured home sits in place of old tavern, w/ chain link fence around home).

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 04 48.42380 Longitude: 123 47 29.46013
Ellipsoid Height: 36.752m Geoid Height: -21.558m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	273,286.323m	1,236,417.729m	-2 15 06.8

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 04 49.01255 Longitude: 123 47 25.10190
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	896,643.72 ft	1,135,525.75 ft	

Observation by (Agency): GPS Northwest for USFS 1985

*INFORMATION REVIEWED BY: R. ZANON 10-91

STATION: GPS 171021
USGS QUAD: TIERNAN
TOWNSHIP 17 S RANGE 10 W SECTION 21
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

1985, USFS establish GPS 171021 as a GPS control station. The point is a 2 1/2" by 30" aluminum pipe with 3 1/4" aluminum cap set flush in the ground, mkd. "GPS 171021 1985".

1988, Larry Bishop, RLS 896, found and tied to this point (CS 28677).

1991, Norm Ward found and tied to this point while surveying section 28 (CS 30118).

AUGUST 1991, USFS personnel found the point and occupied it for the Indian Creek GPS survey (Point 9114).

LOCATION & COMMENTS:

GPS 171021 fall is in a recent clear cut approx 80 feet west of landing at end of short spur (approx 200 feet long). Go NW from Mapleton on US Highway 36 for approx 3 miles to junction with County Rd. 5070 (Rd. acroos from Brickerville store). Proceed 1.9 miles up County Rd. to junction with FS Rd. 2500-796. Proceed 0.5 miles on 2500-796 to clear cut and junction of unmarked spur to right. Go out spur approx 200 feet.

GEODETIC COORDINATE POSITION DATA
Datum: NAD83 (1991)
Latitude: 44 04 28.70956 Longitude: 123 53 49.64680
Ellipsoid Height: 222.040m Geoid Height: -21.841m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	273,016.043m	1,227,940.655m	-2 19 26.9

Established by (Agency): USFS 1991

GEODETIC COORDINATE POSITION DATA
Datum: NAD27
Latitude: 44 04 29.30249 Longitude: 123 53 45.27842
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	895,757.01 ft	1,107,713.93 ft	

Observation by (Agency): GPS Northwest for USFS 1985

*INFORMATION REVIEWED BY: M.SCHWARTZ 8/92

STATION: GPS 17114
USGS QUAD: MERCER LAKE
TOWNSHIP 17 S RANGE 11 W SECTION 4
COUNTY Lane

PREVIOUS RENEWALS, SURVEYS, AND
MONUMENT & ACCESSORIES FOUND OR SET: (CONDITION/SOURCE)

In 1985, USFS establish GPS 17114. The point is a 3 1/4" USFS aluminum cap attached to 5/8" by 24" Re-bar set with flush with the ground, marked "GPS 16114 1985".

In 1986, E. Davis found the GPS point (CS 27678) marked "USDA GPS 16114 1985".

In 1986, Chickering-Green Empire, Inc. found and tied to the GPS point (CS 27692).

In 1991, R. Zanon(USFS) found the monument set flush with the ground and remarked the cap "GPS 17114 1985 1991". The point was occupied during the Indian Creek GPS survey (Point 9109).

In 1992, L.Bishop(RLS 896) in CS# 30652 found the monument as described

LOCATION & COMMENTS:

From the junction of FS 58 and FS 58-766 travel up FS 58-766 0.2 miles to top of Herman peak and the GPS point which is on the left side of road on the north edge of Herman peak (northeast of radio tower).

GEODETIC COORDINATE POSITION DATA

Datum: NAD83 (1991)
Latitude: 44 07 29.05817 Longitude: 124 00 46.18411
Ellipsoid Height: 607.628m Geoid Height: -22.034m

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	278,960.037m	1,218,913.184m	-2 24 11.8

Established by (Agency): USFS 1991

Datum: NAD27
Latitude: 44 07 29.65773 Longitude: 124 00 41.80353
Ellipsoid Height: Geoid Height:

PLANE COORDINATES

Grid	Zone	Northing	Easting	Mapping Angle
SPC	OR S	915,258.33 ft	1,078,096.13 ft	

Established by (Agency): GPS NORTHWEST FOR USFS 1985

REORDER BY NUMBER 07-5841
POSITION EDGE OF PRINT ON THIS LINE
POSITION EDGE OF PRINT ON THIS LINE
POSITION EDGE OF PRINT ON THIS LINE
POSITION EDGE OF PRINT ON THIS LINE

GPS SURVEY FOR

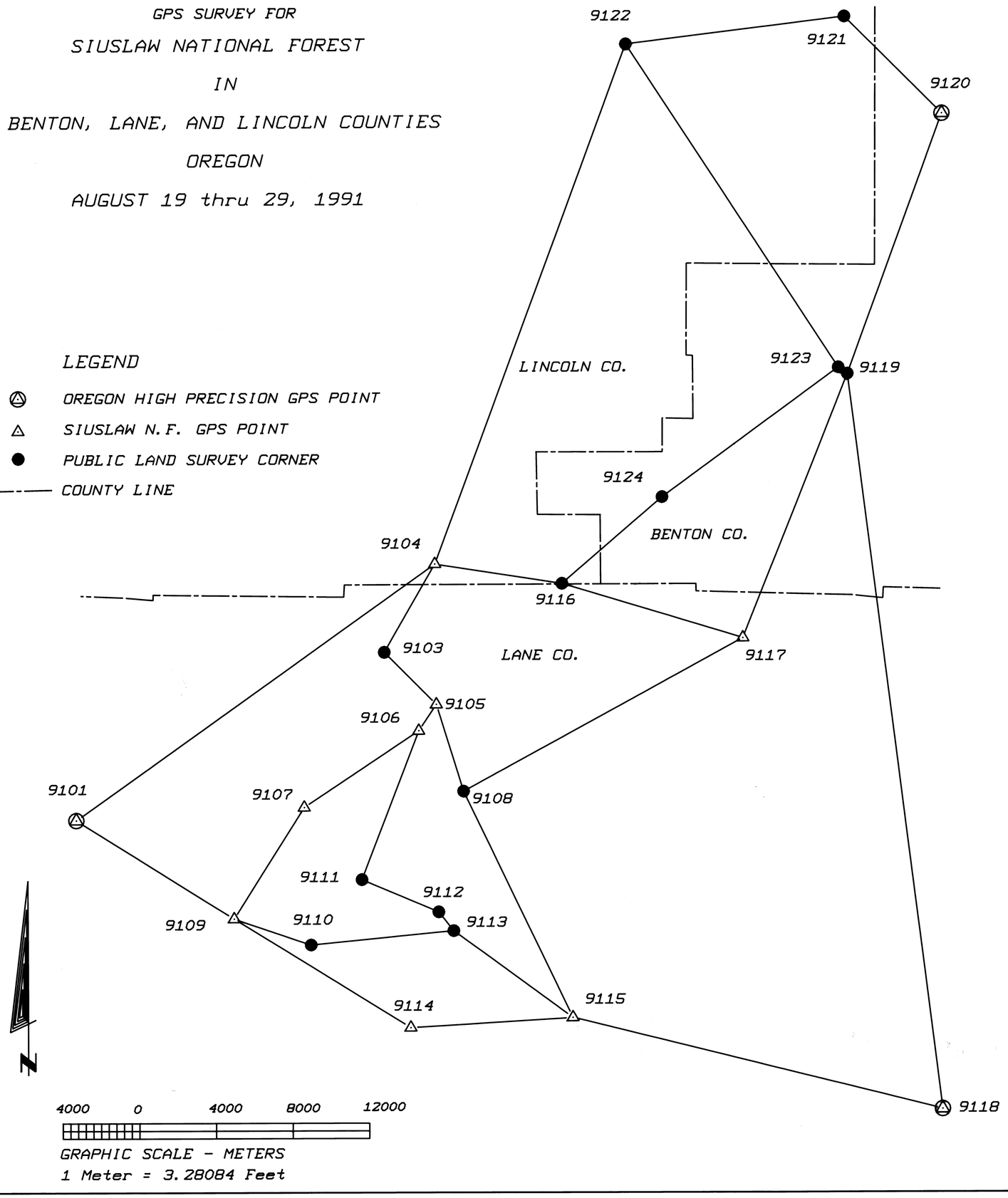
SIUSLAW NATIONAL FOREST

IN

BENTON, LANE, AND LINCOLN COUNTIES

OREGON

AUGUST 19 thru 29, 1991



LEGEND

- OREGON HIGH PRECISION GPS POINT
- SIUSLAW N.F. GPS POINT
- PUBLIC LAND SURVEY CORNER
- COUNTY LINE

BENTON COUNTY CONTROL SURVEYOR'S REPORT
CCR # 0001
FILE DATE 10/18/1991
FILE SIZE 18 x24
VERTICAL ☐
HORIZONTAL ☒

NARRATIVE

PURPOSE:

The purpose of this GPS survey was to upgrade existing Forest GPS points using the Oregon High Precision GPS Network, densify the Forest GPS network, and provide Geodetic Coordinates to selected Public Land Survey Corners.

EQUIPMENT:

This survey was performed using three Trimble 4000 ST (Field Surveyor) GPS receivers with computations being performed on an IBM model P70 386 portable computer.

FIELD PROCEDURES:

Instrument Heights were measured at least two times during each observation session. During the course of this project observation sessions were conducted, four times at Points 9104, 9105, & 9123, three times at Points 9101, 9106, 9107, 9109, 9113, 9115, 9117, 9119, & 9120, and two times at Points 9103, 9108, 9111, 9116, 9118, & 9122. Points 9110, 9112, 9114, 9121, and 9124 were occupied only once. Meteorological values were not measured during the observation sessions.

A minimum of 1 hour of simultaneous data was recorded during a five satellite observation session and at least 1 1/2 hours of simultaneous data was recorded during a four satellite observation session.

OFFICE PROCEDURES:

Baseline computations were performed daily. Trimble's TRIMVEC-PLUS (revision D) software suite was used to batch process the baselines (both trivial and non-trivial) for incorporation into the network. Once baseline vectors were determined trimvec program "TCLOSE" was used to check loop closures on various parts of the network. The poorest loop closure obtained was 2.8 PPM (1:360,000).

Upon completion of the field work trimvec's least square network adjustment program "TRIMNET" was used to adjust the network to the NAD83 (1991) Datum. The final unconstrained network's poorest baseline vector value was equal 1:440,000.

The network was constrained using three Oregon High Precision GPS Points (9101 = PON, 9118 = SOAM, 9120 = MARY RM 5) for both vertical (ellipsoidal height) and horizontal control. Upon constraining the network the poorest baseline vector dropped to a value equal 1:260,000.

Geodetic values provided are on the "GRS 80" ellipsoid: NAD 83 (1991). The geodetic height (the distance of the geoid above (+) or below (-) the GRS 80 ellipsoid) of the points were computed using a National Geodetic Survey computer program which uses the GEOID90 model.

We, Randall M. Zanon and David A. Schlaich, Registered Land Surveyor's in the state of Oregon, hereby certify that this plat and the notes hereon are a true and correct representation of a GPS survey we conducted, at the request of the U.S.D.A., Forest Service, in accordance with the statutes of the state of Oregon.

Randall M. Zanon -- RLS 1959
Phone (503) 750-7176

David A. Schlaich -- RLS 2308
Phone (503) 750-7174

Siuslaw National Forest
4077 S.W. Research Way
Corvallis, Or. 97339-1148

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 17, 1981
RANDALL M. ZANON
No. 1959

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 16, 1987
DAVID A. SCHLAICH
2308

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 17, 1981
RANDALL M. ZAMON
No. 1959

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 16, 1987
DAVID A. SCHLAICH
2308

BENTON COUNTY CONTROL
CCR # 0001
FILE DATE 10/18/1991
FILE SIZE 18 x24
VERTICAL
HORIZONTAL X
SURVEYOR'S OFFICE REPORT

GPS SURVEY FOR
SIUSLAW NATIONAL FOREST
IN
BENTON, LANE, AND LINCOLN COUNTIES
OREGON
AUGUST 19 thru 29, 1991

LANE COUNTY

9101 PON in section 22, T. 16 S., R. 12 W.

Found a 3" Oregon Highway Department brass disk set flush with the ground, marked as shown.

ELEV
USC&GS
▲
STATION
PON
1965

Latitude 44°10'12.11445" Longitude 124°06'59.36918"
Ellipsoid Height -15.929 meters Geoid Height -22.487 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	284,341.392	1,210,840.753	1.00004767	-2°28'27.2"
SPC	OR N	62,409.501	2,210,848.193	1.00004510	-2°33'53.2"
UTM	10	4,891,364.188	410,742.151	0.99969798	-0°46'40.8"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.58376" +04.37158" (Based on Adjusted Positions)

9103 1/4 corner of sections 20 & 21, T. 15 S. R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe projecting 4" out of the ground, marked as shown, from which:
16" fir stump, S 40° E, 15.2 feet, scribing visible.

T15S R10W
1/4
S20 | S21
LS 1084
1984

Latitude 44°15'01.15496" Longitude 123°54'58.30849"
Ellipsoid Height 303.228 meters Geoid Height -21.441 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	292,583.506	1,227,210.154	1.00007328	-2°20'13.9"
SPC	OR N	70,626.229	2,227,229.799	1.00002193	-2°25'21.8"
UTM	10	4,900,084.140	426,854.186	0.99966580	-0°38'21.6"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60333" +04.36710" (Based on Adjusted Positions)

9105 GPS 151034 in section 34, T. 15 S., R. 10 W.

Set in concrete a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 3/4" by 24" iron rod, marked as shown.

USDA FOREST SERVICE
GPS 151034
·
1991

Latitude 44°13'34.10151" Longitude 123°52'54.99443"
Ellipsoid Height 360.070 meters Geoid Height -21.414 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	289,787.520	1,229,835.414	1.00006536	-2°18'49.5"
UTM	10	4,897,368.284	429,560.054	0.99966102	-0°36'54.6"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60103" +04.36517" (Based on Adjusted Positions)

9106 GPS 161004 in section 4, T. 16 S., R 10 W.

Set in concrete a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 3/4" by 24" iron rod, marked as shown.

USDA FOREST SERVICE
GPS 161004
·
1991

Latitude 44°12'49.31043" Longitude 123°53'36.01521"
Ellipsoid Height 346.802 meters Geoid Height -21.456 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	288,442.879	1,228,869.650	1.00006135	-2°19'17.6"
UTM	10	4,895,996.159	428,634.942	0.99966263	-0°37'22.7"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60058" +04.36618" (Based on Adjusted Positions)

9107 GPS 161113 in section 13, T. 16 S., R. 11 W.

Set in concrete a 2 3/8" orange plastic cap on a 5/8" by 24" iron rod, marked as shown.

U.S.F.S.
GPS 161113
·
1991

Latitude 44°10'38.22373" Longitude 123°58'03.94973"
Ellipsoid Height 453.851 meters Geoid Height -21.696 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	284,643.650	1,222,758.798	1.00004990	-2°22'20.9"
UTM	10	4,892,019.038	422,641.693	0.99967360	-0°40'28.0"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60025" +04.37405" (Based on Adjusted Positions)

9108 W 1/16 corner of sections 11 & 14, T. 16 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap set 6" under the surface of Forest Service Road 5840, marked as shown, from which:
6" fir, S 64 1/2° E, 64.0 feet, open face.
RM, USFS aluminum cap, N 45°50'W, 49.7 feet, stamped "RM T16SR10W W1/16 S11 LS1084 1984 S45-48E 49.7FT".

T16S R10W
W 1/16 S11 / S14
LS 1084
1984

Latitude 44°11'08.22303" Longitude 123°51'49.79938"
Ellipsoid Height 282.987 meters Geoid Height -21.468 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	285,229.991	1,231,100.504	1.00005248	-2°18'04.9"
UTM	10	4,892,852.068	430,959.147	0.99965862	-0°36'07.6"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.59781" +04.36269" (Based on Adjusted Positions)

9109 GPS 171104 in section 4, T. 17 S., R. 11 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap set flush with the ground, marked "GPS 16114 1985". Remarked monument as shown.

GPS
·
17114
1985
1991

Latitude 44°07'29.05817" Longitude 124°00'46.18411"
Ellipsoid Height 607.628 meters Geoid Height -22.034 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	278,960.037	1,218,913.184	1.00003410	-2°24'11.8"
UTM	10	4,886,226.080	418,967.526	0.99968076	-0°42'18.7"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.59956" +04.38058" (Based on Adjusted Positions)

9110 W 1/16 corner of sections 1 & 12, T. 17 S., R. 11 W.

Found a 3 1/4" Bureau of Land Management brass cap set 4" below the ground, marked as shown, from which:
19" broken fir, 7' high, N 01° W, 53.6 feet, healed face.
25" fir, N 80° E, 68.5 feet, healed face.
RM, BLM brass cap, N 77°49" W, 12.7 feet.
RM, BLM brass cap, N 88°48' E, 63.2 feet.

W 1/16 S 1 / S12
1986

Latitude 44°06'46.38770" Longitude 123°57'45.21019"
Ellipsoid Height 188.175 meters Geoid Height -21.927 meters

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
SPC	OR S	277,476.571	1,222,878.945	1.00003065	-2°22'08.0"
UTM	10	4,884,861.295	422,974.089	0.99967297	-0°40'12.2"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.59765" +04.37525" (Based on Adjusted Positions)

REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE

REGISTERED PROFESSIONAL LAND SURVEYOR
Randall M. Zanon
OREGON
JULY 17, 1981
RANDALL M. ZANON
No. 1959

REGISTERED PROFESSIONAL LAND SURVEYOR
David A. Schlaich
OREGON
JULY 16, 1987
DAVID A. SCHLAICH
2308

GPS SURVEY FOR
SIUSLAW NATIONAL FOREST
IN
BENTON, LANE, AND LINCOLN COUNTIES
OREGON
AUGUST 19 thru 29, 1991

BENTON COUNTY CONTROL SURVEYOR'S REPORT
CCR # 0001
FILE DATE 10/18/1991
FILE SIZE 18 x24
VERTICAL
HORIZONTAL [X]

9111 Section 30 RM at corner of sections 29, 30, 31 & 32, T. 16 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, projecting 2" out of the ground, marked as shown.

Latitude 44°08'37.47578" Longitude 123°55'46.89517"
Ellipsoid Height 65.382 meters Geoid Height -21.727 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	280,794.337	1,225,648.177	1.00003972	-2°20'47.1"
UTM	10	4,888,258.462	425,642.770	0.99966800	-0°38'51.1"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.59596"	+04.36980" (Based on Adjusted Positions)

S73°15'E
T16SR10WS30RM
29 10
RLS 1956
1983

9112 N 1/4 corner section 3 only, T. 17 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, projecting 3" out of the ground, marked as shown, from which:
12" cedar, N 04° E, 31.3 feet, scribing visible.
22" fir, S 63° E, 35.5 feet, scribing visible.
72" fir stump, N 22° W, 29.1 feet.
56" fir stump, S 58° W, 18.2 feet.

Latitude 44°07'44.15081" Longitude 123°52'45.77972"
Ellipsoid Height 276.491 meters Geoid Height -21.649 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	278,986.124	1,229,604.018	1.00003533	-2°18'43.2"
UTM	10	4,886,568.980	429,648.997	0.99966087	-0°36'44.3"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.59415"	+04.36568" (Based on Adjusted Positions)

T16S R10W
1/4 S3
T17S R10W
1980
RLS 1922

9113 1/4 corner of sections 2 & 3, T. 17 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, marked as shown, from which:
20" fir stump, N 52°51' W, 14.3 feet to yellow plastic cap on a 5/8" rebar in center of stump.
25" fir stump, N 43°27" E, 18.4 feet to yellow plastic cap on a 5/8" rebar in center of stump.

Latitude 44°07'12.70800" Longitude 123°52'10.43893"
Ellipsoid Height 225.606 meters Geoid Height -21.655 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	277,984.738	1,230,350.038	1.00003277	-2°18'19.0"
UTM	10	4,885,590.529	430,424.102	0.99965953	-0°36'19.4"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.59365"	+04.36473" (Based on Adjusted Positions)

T17S R10W
1/4
S3 | S2
RLS 1956
1985

9114 GPS 171021 in section 21, T. 17 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, projecting 3" out of the ground, marked as shown.

Latitude 44°04'28.70956" Longitude 123°53'49.64680"
Ellipsoid Height 222.040 meters Geoid Height -21.841 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	273,016.043	1,227,940.655	1.00001983	-2°19'26.9"
UTM	10	4,880,554.383	428,164.005	0.99966347	-0°37'26.6"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.59293"	+04.36838" (Based on Adjusted Positions)

GPS 171021
·
1985

9115 GPS 170921 in section 20, T. 17 S., R. 9 W.

Found 1/2" iron rod firmly set. Placed 2 3/8" orange plastic cap on iron rod and placed concrete around the point which is marked as shown.

Latitude 44°04'48.42380" Longitude 123°47'29.46013"
Ellipsoid Height 36.752 meters Geoid Height -21.558 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	273,286.323	1,236,417.729	1.00002135	-2°15'06.8"
UTM	10	4,881,075.932	436,626.240	0.99964939	-0°33'02.3"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.58875"	+04.35823" (Based on Adjusted Positions)

U.S.F.S.
GPS 170921
·
1985
1991

9117 GPS 150820 in section 20, T. 15 S., R. 8 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap set flush with the ground, marked as shown.

Latitude 44°15'30.35369" Longitude 123°40'53.81628"
Ellipsoid Height 487.000 meters Geoid Height -21.006 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	292,746.291	1,245,966.797	1.00007598	-2°10'36.1"
SPC	OR N	70,761.967	2,245,985.647	1.00001970	-2°15'22.9"
UTM	10	4,900,802.794	445,589.800	0.99963641	-0°28'32.6"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.59480"	+04.33891" (Based on Adjusted Positions)

CAMERA POINT
GPS ·
NO. 15820
1985

9118 SOAM in section 4, T. 18 S., R. 7 W.

Found a 4" National Geodetic Survey brass cap set in concrete flush with the ground, marked as shown.

Latitude 44°02'18.51325" Longitude 123°32'59.47848"
Ellipsoid Height 136.894 meters Geoid Height -21.312 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR S	267,929.671	1,255,592.451	1.00001001	-2°05'11.6"
UTM	10	4,876,293.241	455,944.329	0.99962387	-0°22'56.0"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.6"	+04.4" (Based on Nadcon Interpolation)

N.G.S.
OREGON PRIMARY
1989
▲
SOAM
GPS STATION

LANE & LINCOLN COUNTIES

9116 NE 1/16 corner section 8, T. 15 S. R. 9 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap set 8" below ground, marked as shown, from which:
RM, USFS aluminum monument, N 35° E, 18.08 feet.
RM, USFS aluminum monument, N 52 1/2° W, 18.3 feet.

Latitude 44°16"59.76860" Longitude 123°48'01.07849"
Ellipsoid Height 59.662 meters Geoid Height -21.209 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	73,899.698	2,236,628.026	1.00001298	-2°20'25.9"
SPC	OR S	295,870.966	1,236,604.143	1.00008437	-2°15'28.4"
UTM	10	4,903,647.087	436,142.698	0.99965015	-0°33'31.6"

HORIZONTAL DATUM SHIFT	LATITUDE	LONGITUDE
NAD83 minus NAD27	-00.60053"	+04.35361" (Based on Adjusted Positions)

T15S R9W
NE 1/16 · S8
1991
RLS 1959

GPS SURVEY FOR

SIUSLAW NATIONAL FOREST

IN

BENTON, LANE, AND LINCOLN COUNTIES

OREGON

AUGUST 19 thru 29, 1991

BENTON COUNTY CONTROL
CCR # 0001
FILE DATE 10/18/1991
FILE SIZE 18 x24
VERTICAL
HORIZONTAL [x]
SURVEYOR'S OFFICE

LINCOLN COUNTY

9104 GPS 151003 in section 3, T. 15 S., R. 10 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap set flush with the ground, marked as shown.

GPS
15103
.
1985

Latitude 44°17'30.74845" Longitude 123°53'00.76904"
Ellipsoid Height 274.652 meters Geoid Height -21.350 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	75,129.898	2,230,028.555	1.00001070	-2°23'58.4"
SPC	OR S	297,091.616	1,230,002.394	1.00008732	-2°18'53.4"
UTM	10	4,904,671.088	429,510.524	0.99966111	-0°37'01.3"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60597" +04.36300" (Based on Adjusted Positions)

9121 Corner of sections 1, 2, 11 & 12, T. 12 S., R. 8 W.

Found a 3 1/4" Bureau of Land Management brass cap on a 2 1/2" iron pipe, projecting 6" out of the ground, marked as shown, from which:
40" fir stump, N 39° E, 99.7 feet, healed face.
20" fir stump, S 39° E, 48.0 feet, healed face.
50" fir stump, S 13° W, 63.3 feet, healed face.
45" fir, N 36° W, 187.4 feet, healed face.
61" fir stump, N 20 1/2° E, 92.2 feet, cut open to visible scribing.

T12S R8W
S 2 | S 1
S11 | S12
1959

Latitude 44°32'58.75997" Longitude 123°36'59.63516"
Ellipsoid Height 424.364 meters Geoid Height -20.502 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	102,895.786	2,252,424.554	0.99995254	-2°12'36.8"
UTM	10	4,933,109.681	451,026.048	0.99962949	-0°25'57.2"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.59897" +04.35300" (Based on Adjusted Positions)

9122 Witness Corner for sections 10, 11, 14 & 15, T. 12 S., R. 9 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, projecting 5" out of the ground, marked as shown.

WC
T12S R9W
10 | 11
15 | 14
1979 PLS 1068

Latitude 44°32'10.27721" Longitude 123°45'36.92429"
Ellipsoid Height 217.644 meters Geoid Height -20.773 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	101,851.007	2,240,955.602	0.99995509	-2°18'43.7"
UTM	10	4,931,709.945	439,598.664	0.99964486	-0°31'59.6"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60277" +04.36300" (Based on Adjusted Positions)

BENTON COUNTY

9119 1/4 corner of sections 1 & 2, T. 14 S., R. 8 W.

Found a 2" by 12" iron pipe setting on top of a 3 1/4" U.S.D.A. Forest Service aluminum cap set 8" below ground, marked as shown, from which:
12" Telephone Pole, N 5 3/4° W, 30.6 feet.
1/2" rebar, N 8 1/4° E, 31.16 feet, ROW pin PT 612+70.7.
1/2" rebar, N 12 1/2° E, 90.72 feet, ROW pin PT 612+70.7.

T14S R8W
1/4
S2 | S1
1987
RLS 1922

Latitude 44°22'56.65992" Longitude 123°36'49.61594"
Ellipsoid Height 64.000 meters Geoid Height -20.807 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	84,316.582	2,251,929.439	0.99998800	-2°12'29.7"
UTM	10	4,914,530.382	451,107.700	0.99962940	-0°25'45.5"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60057" +04.33732" (Based on Adjusted Positions)

9120 Mary RM 5 in section 28, T. 12 S., R. 7 W.

Found a 3 1/2" NGS brass disk set in the center of 12" concrete cylinder flush with the ground, marked as shown.

MARY
1903
NO. 5
1972

Latitude 44°30'16.05036" Longitude 123°33'08.19724"
Ellipsoid Height 1228.225 meters Geoid Height -20.437 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	97,682.194	2,257,339.375	0.99996130	-2°09'52.7"
SPC	OR S	319,685.494	1,257,285.329	1.00016751	-2°05'17.5"
UTM	10	4,928,052.727	456,098.553	0.99962370	-0°23'13.7"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.59606" +04.34723" (Based on Adjusted Positions)

9123 AP-6 of DLC 41 in section 2, T. 14 S., R. 8 W.

Found a 3 1/4" U.S.D.A. Forest service aluminum cap set 4" below ground, marked as shown.

T14S R8W
S 2
AP 6
DLC 41
1987
RLS 1922

Latitude 44°23'07.31857" Longitude 123°37'11.28464"
Ellipsoid Height 64.896 meters Geoid Height -20.798 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	84,663.828	2,251,462.847	0.99998730	-2°12'45.1"
UTM	10	4,914,862.857	450,630.724	0.99962997	-0°26'00.8"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60069" +04.33792" (Based on Adjusted Positions)

9124 1/4 corner of sections 25 & 26 T. 14 S., R. 9 W.

Found a 3 1/4" U.S.D.A. Forest Service aluminum cap on a 2 1/2" aluminum pipe, projecting 4" out of the ground, marked as shown, from which:
5" fir, N 22° E, 34.3 feet.
7" fir, N 84° E, 26.0 feet.

T14S R9W
1/4
S26 | S25
1986
RLS 1922

Latitude 44°19'27.11916" Longitude 123°44'06.20769"
Ellipsoid Height 264.386 meters Geoid Height -21.044 meters

		PLANE COORDINATES NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE
GRID	ZONE				
SPC	OR N	78,233.651	2,242,013.749	1.00000231	-2°17'39.3"
SPC	OR S	300,212.969	1,241,984.122	1.00009861	-2°12'47.7"
UTM	10	4,908,144.720	441,389.211	0.99964225	-0°30'49.0"

HORIZONTAL DATUM SHIFT LATITUDE LONGITUDE
NAD83 minus NAD27 -00.60086" +04.34807" (Based on Adjusted Positions)

REGISTERED
PROFESSIONAL
LAND SURVEYOR
OREGON
JULY 17, 1981
RANDALL M. CANON
No. 1959

REGISTERED
PROFESSIONAL
LAND SURVEYOR
OREGON
JULY 16, 1987
DAVID A. SCHLAICH
2308