OREGON DEPARTMENT OF TRANSPORTATION

COVER SHEET

HOOD RIVER HWY. AT ODELL HWY.

M.P.# 5.09 ON HWY. #281 S.E. ¹/₄ SEC. 15, T. 2 N., R. 10 E., W.M. HOOD RIVER COUNTY, OREGON OCTOBER, 1992

NARRATIVE

PURPOSE

The purpose of this survey is to show the horizontal and vertical control established for a proposed Oregon Department of Transportation (O.D.O.T.) project along the Hood River Highway at the Odell Highway Junction. Also shown are existing monuments and their relationship to the recovered right-of-way centerlines.

BASIS OF BEARING, COORDINATES, AND ELEVATION

Bearings are true. A compass bearing of S 86°W was sighted between points 2 and I. The declination was set at 19°30' East.

Assumed coordinates of N 10,000.000 E 20,000.000 were assigned to the East Quarter Corner of Section 15 T. 2 N., R. 10 E., W.M.

Vertical control was established using a found brass disk in the N.W. wall of Tucker Bridge. The disk is stamped "STATE HIGHWAY DEPARTMENT F437 1946". The elevation on the disk is 428.038 and is from the National Geodetic Vertical Datum of 1929.

ALIGNMENT DESCRIPTION

The Odell Highway Right-of-Way Centerline was recovered by holding found monuments 1008, 1009, and using data found on 0.D.O.T. right-of-way map #6B-26-20.

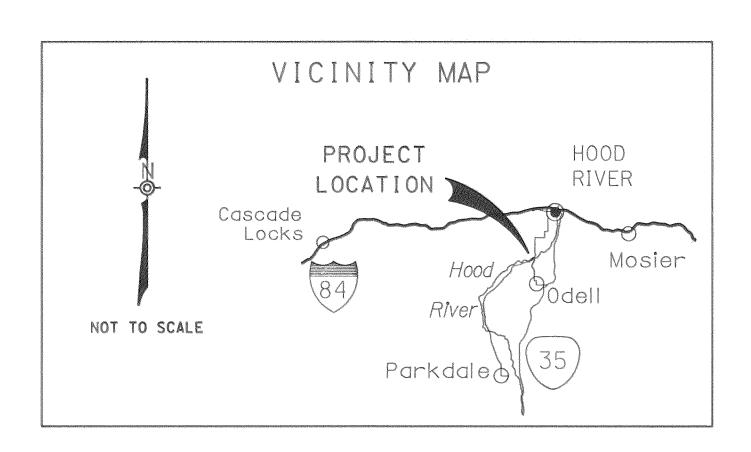
The Hood River Highway Right-of-Way Centerline was recovered by using and holding the description found in the deed recorded in Book 27, Page 356 Hood River County, and using data found on O.D.O.T. right-of-way map *5B-20-12. This alignment fits existing topography very well.

REFERENCE SURVEYS

#85030 #87056

O.D.O.T. RIGHT-OF-WAY MAPS

5B-20-12 6B-26-20



EQUIPMENT USED

WILD T2000 Electronic Theodolite

Serial #310980

WILD DI5 Electronic Distance Meter (+/-3MM +/-2PPM)

Serial #51106

Tripod Mounted Foresight/Backsight (20 second plate bubble on prism carrier)

Hand held prism pole (8 minute circle bubble)

TRAVERSE PROCEDURES

Forced centering methods were used to perform traverse operations. Two sets of horizontal and zenith angles were measured at each station. Two sets of distances were measured forward and back.

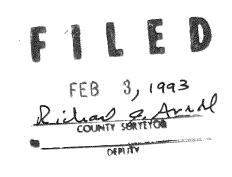
The electronic distance meter was checked on a calibrated baseline prior to performing the traverse and at the conclusion of the project. The baseline records and further details regarding the procedures are on file at the originating office.

Side ties to monuments were made with the hand held prism pole.

All iron pipe sizes are inside diameter.

The original field notes are on file at:

Department of Transportation
Roadway Description Supervisor
207 Transportation Building
Salem, Oregon 97310
Phone: 378-3487
Field Book #3190



REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JULY 25, 1990
JOE H. FERGUSON

REGION 1, SURVEY GROUP 5821 NE GLISAN ST PORTLAND, OR 97213 (503)731-3239

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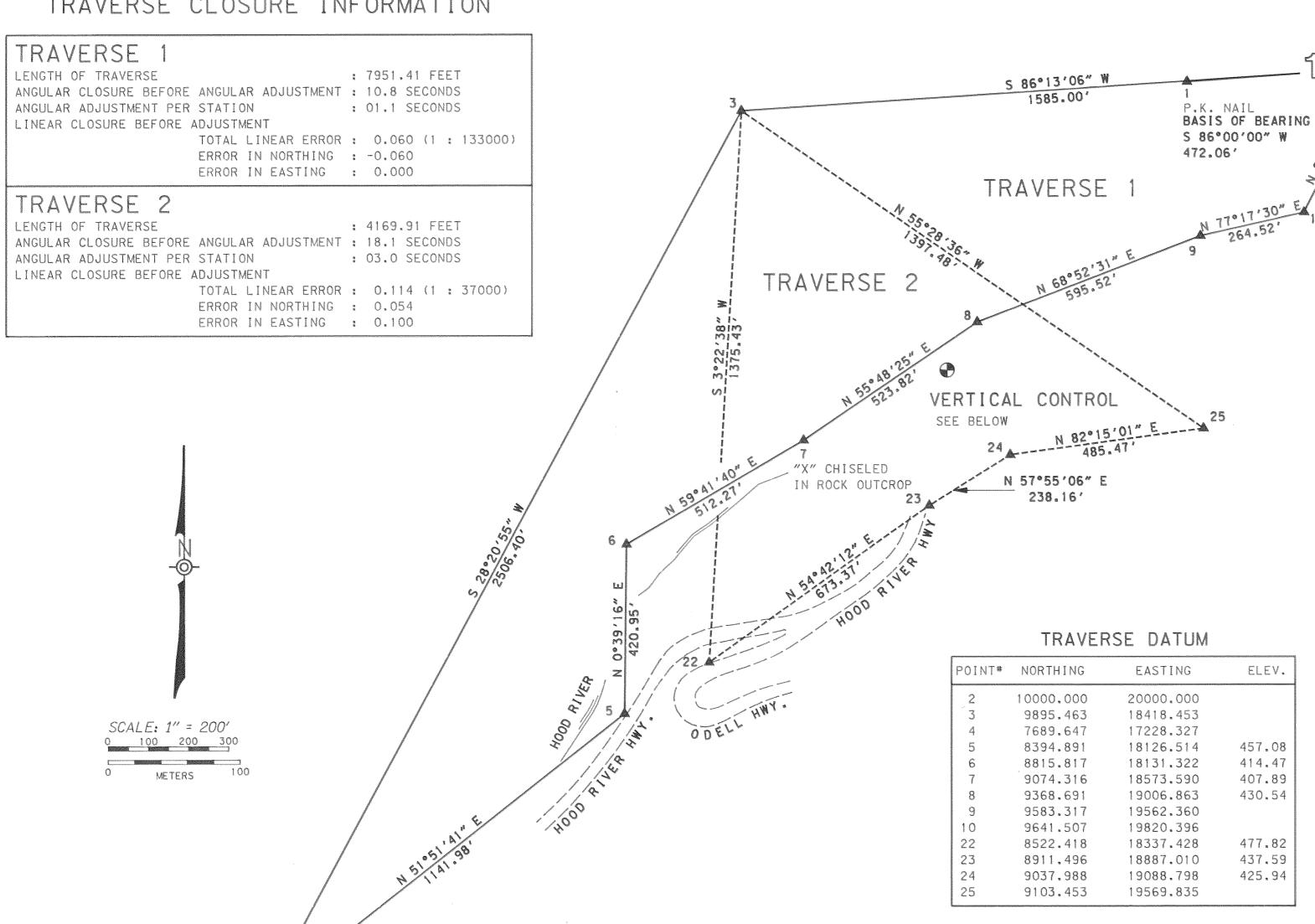
SHEET 1 OF 4

OREGON DEPARTMENT OF TRANSPORTATION

PROJECT CONTROL SHEET HOOD RIVER HWY. AT ODELL HWY.

M.P.# 5.09 ON HWY. #281 S.E. 1/4 SEC. 15, T. 2 N., R. 10 E., W.M. HOOD RIVER COUNTY, OREGON OCTOBER, 1992

TRAVERSE CLOSURE INFORMATION



NOTE: FOR NARRATIVE AND GENERAL NOTES SEE SHEET 1

FOR RECOVERY MAP SEE SHEET 3

FD. BRASS CAP IN MONUMENT BOX STAMPED "HOOD RIVER COUNTY, T. 2 N., R. 10 E., W.M. S 15 & S 14 1991"

LEGEND

- ▲ SET 5/8" I.R. W/RED PLASTIC CAP STAMPED "ODOT" UNLESS NOTED OTHERWISE
- △ FOUND MONUMENT AS NOTED
- FOUND BENCH MARK AS NOTED -- EXISTING EDGE OF PAVEMENT

POINT#	NORTHING	EASTING	ELEV.
2	10000.000	20000.000	
3	9895.463	18418.453	
4	7689.647	17228.327	
5	8394.891	18126.514	457.08
6	8815.817	18131.322	414.47
7	9074.316	18573.590	407.89
8	9368.691	19006.863	430.54
9	9583.317	19562.360	
10	9641.507	19820.396	
22	8522.418	18337.428	477.82
23	8911.496	18887.010	437.59
24	9037.988	19088.798	425.94
25	9103.453	19569.835	

VERTICAL CONTROL

FOUND BRASS DISK IN N.W. WALL OF TUCKER BRIDGE STAMPED "STATE HIGHWAY DEPARTMENT F437 1946"

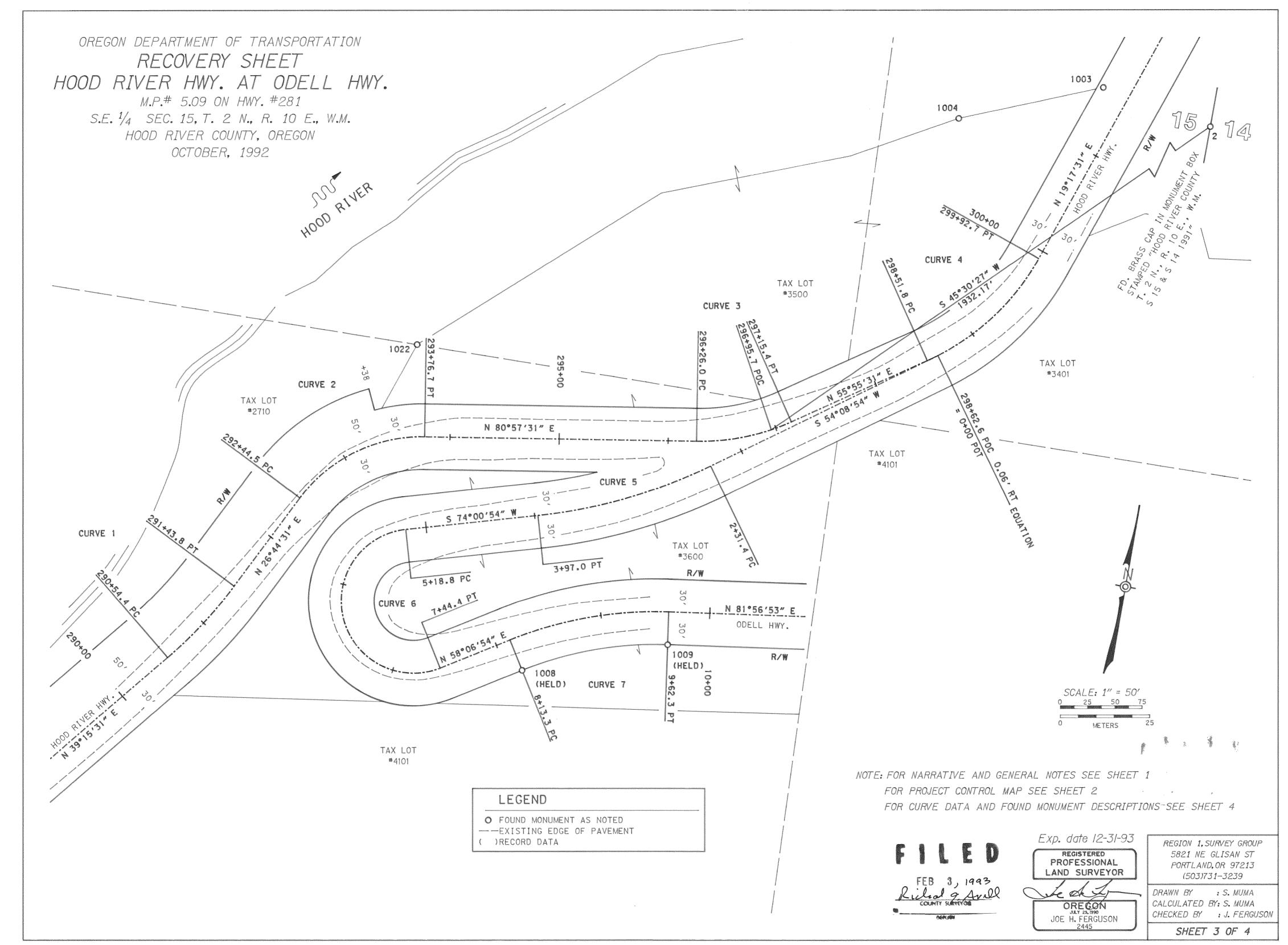
Exp. date 12-31-93

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SHEET 2 OF 4



OREGON DEPARTMENT OF TRANSPORTATION

COORDINATE SHEET HOOD RIVER HWY. AT ODELL HWY.

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HOOD RIVER HIGHWAY CALCULATED CENTERLINE COORDINATES

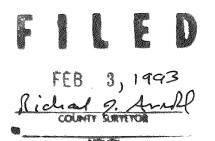
CURVE 1	CURVE 2	CURVE 3	CURVE 4
PI STATION 290+99.3	PI STATION 293+16.0	PI STATION 296+71.4	PI STATION 299+24.8
N 8379.253 E 18141.518	N 8573.131 E 18239.206	N 8630.685 E 18600.898	N 8773.430 E 18811.932
DELTA = 12°31'	DELTA = 54°13′	DELTA = 25°02'	DELTA = 36°38′
14°00′03″ C.L. (14°)	41°00′40″ C.R. (41°)	28°00′05″ C.L. (28°)	25°59′58″ C.L. (26°)
LC = 89.2 N 33°00'01" E	LC = 127.3 N 53°51'01" E	LC = 88.7 N 68°26'31" E	LC = 138.5 N 37°36′31″ E

ODELL HIGHWAY CALCULATED CENTERLINE COORDINATES

CURVE 5		CURVE 7
PI STATION 3+15.0	CURVE 6	PI STATION 8+88.9
N 8554.278 E 18505.013	DELTA = 195°54′	N 8454.570 E 18483.231
DELTA = 19°52′	86°50′06″ C.L.	DELTA = 23°50′
11°59′48″ C.R. (12°)	LC = 130.7 S 23°56′07″ E	15°59′44″ C.R. (16°)
LC = 164.8 S 64°04′53″ W		LC = 147.9 N 70°01'54" E

COMPUTED POSITIONS TO FOUND MONUMENTS

POINT	NORTHING	EASTING	CALCULATED CENTERLINE STATION	CALCULATED OFFSET	DESCRIPTION
2	10000.000	20000.000			FD. BRASS CAP IN MONUMENT BOX STAMPED "HOOD RIVER COUNTY
					T. 2 N., R. 10 E., W.M. S 15 & S 14 1991"
1003	9006.650	18867.244	301+58.15	24.85 LT	FD. 1/2" I.R. W/YELLOW PLASTIC CAP STAMPED "LS 1028", FLUSH
1004	8955.924	18741.595			FD. 1/2" I.R. W/YELLOW PLASTIC CAP STAMPED "LS 1028", FLUSH
1008	8389.162	18434.877	8+13.29	30.00 RT	FD. 3/4" IRON PIPE W/4" X 4" WOOD POST LAYING NEAR
1009	8435.454	18562.281	9+62.30	30.00 RT	FD. 1 1/2" IRON PIPE DOWN, 0.2'
1022	8665.921	18288.506			FD. 1/2" IRON PIPE, GOOD CONDITION, UP 0.1"
£					



Exp. date 12-31-93

REGISTERED PROFESSIONAL LAND SURVEYOR

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JUY 25, 1990

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SHEET 4 OF 4