

MONUMENTATION SURVEY
NEHALEM RIVER - BEAVER CREEK
M.P. 63.57 TO M.P. 64.19 ON HWY. 102
S. 1/2 SEC. 8 T. 4 N., R. 4 W., WILLAMETTE MERIDIAN
COLUMBIA COUNTY, OREGON
OCTOBER 24, 1997

NARRATIVE

PURPOSE

To monument the centerline and right-of-way (R/W) purchased for an Oregon Department of Transportation (ODOT) highway project, "Nehalem River to Beaver Creek" completed in 1996.

Contract Number: 11602

Contract Date: April 1995

Construction Plans: 26V-37B

BASIS OF BEARING AND SURVEY CONTROL

Bearings are Oregon Grid North Zone per ODOT R/W map 10B-4-25. The bearing system is the same as that found on filed survey (PS 3789). The bearing between found monuments 1 and 2, (PS 3789, Bearing N 47°08'14" E) was held as shown on sheet 5 of 5.

Coordinates are NAD 83/91 State Plane reduced to a Local Datum Plane using a grid factor of .999932495 per PS 3789.

METHOD OF SURVEY

The centerline of Nehalem Highway (Hwy. 47) was established by holding the deed call of Instrument (Inst. #) 94-05724.

This alignment fit found monuments and are consistent with ODOT R/W map 10B-4-25 and PS 3789. Points 1, 2, and 6 shown on PS 3789 were used for horizontal control in this survey, see the table on sheet 5 of 5.

REFERENCE SURVEYS

ODOT R/W map 10B-4-25 (Jan. 1995)
ODOT R/W map 6B-7-23 (Jun. 1943)
PS 3789
CS 3693

INDEX

SHEET 1 - Narrative, Quality Control
SHEET 2 - Monumentation Survey
SHEET 3 - Monumentation Survey
SHEET 4 - Monumentation Survey
SHEET 5 - Found Monuments Table

PROJECT TEAM

Field Leader : E. Roberts
Crew Member : K. Gines
Crew Member : M. Hunter
Drawn By : M. Keyes

CR
3/2
MT
MK

QUALITY CONTROL

Horizontal control was established by a network using forced centering methods. Two sets of horizontal angles were turned at each station. The length of each leg of the network was determined by measuring two sets of slope distances and turning two sets of zenith (vertical) angles both in the ahead and back direction. The mean values of the horizontal angles and distances were recorded and used for network computations.

Instruments used:

WILD T 1610 Electronic Theodolite (Ser. #369288)

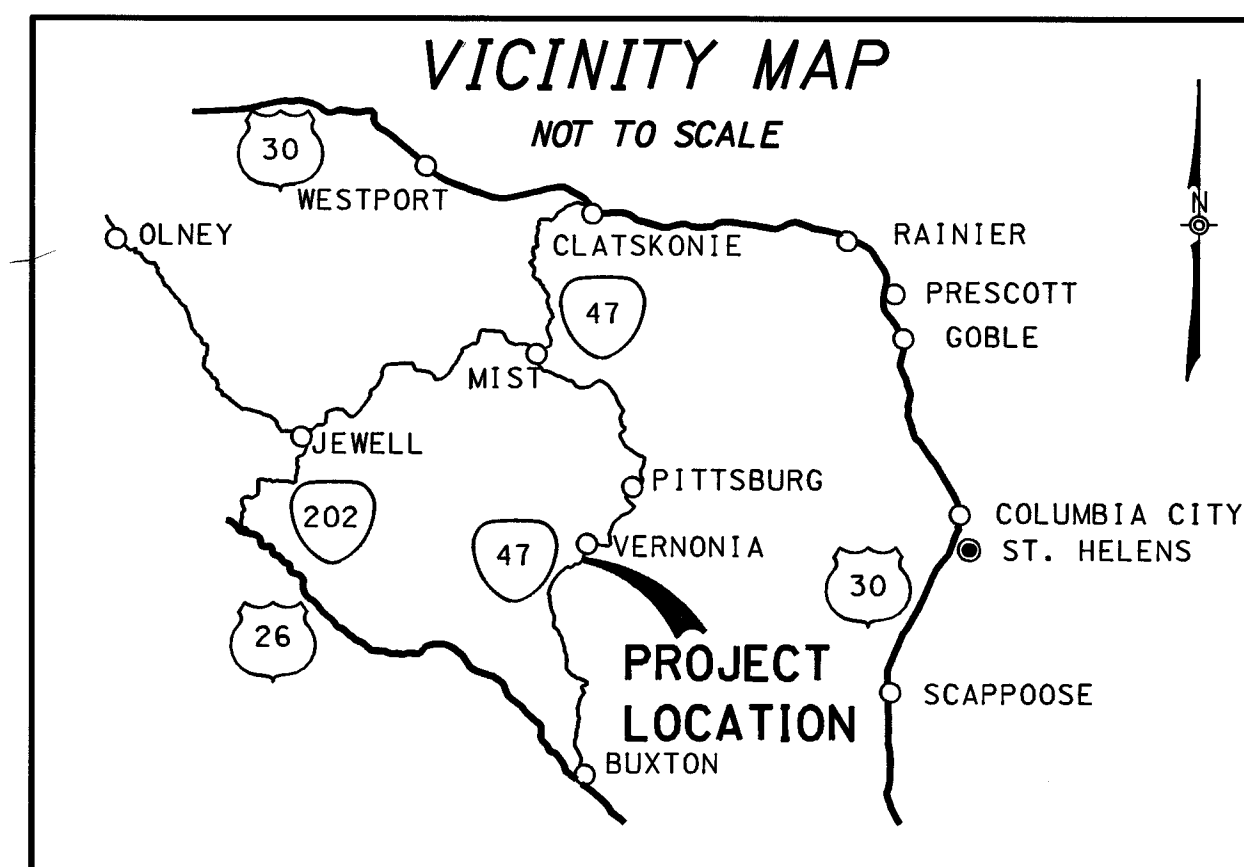
WILD DI 1600 Electronic Distance Meter (Ser. #162527)

The electronic distance meter and theodolite were checked for calibration and collimation prior to establishing the network. Baseline records and details regarding network procedures are on file at the address below.

A search for survey monuments was made within the project limits. The horizontal positions of the found monuments were established by tying the monuments from the horizontal control.

All iron pipe sizes are inside diameter.

A copy of the original field notes is on file at the address below.



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MARJORIE J. WEST

OREGON
MARJORIE J. WEST
2685

RENEWAL DATE 6-30-98



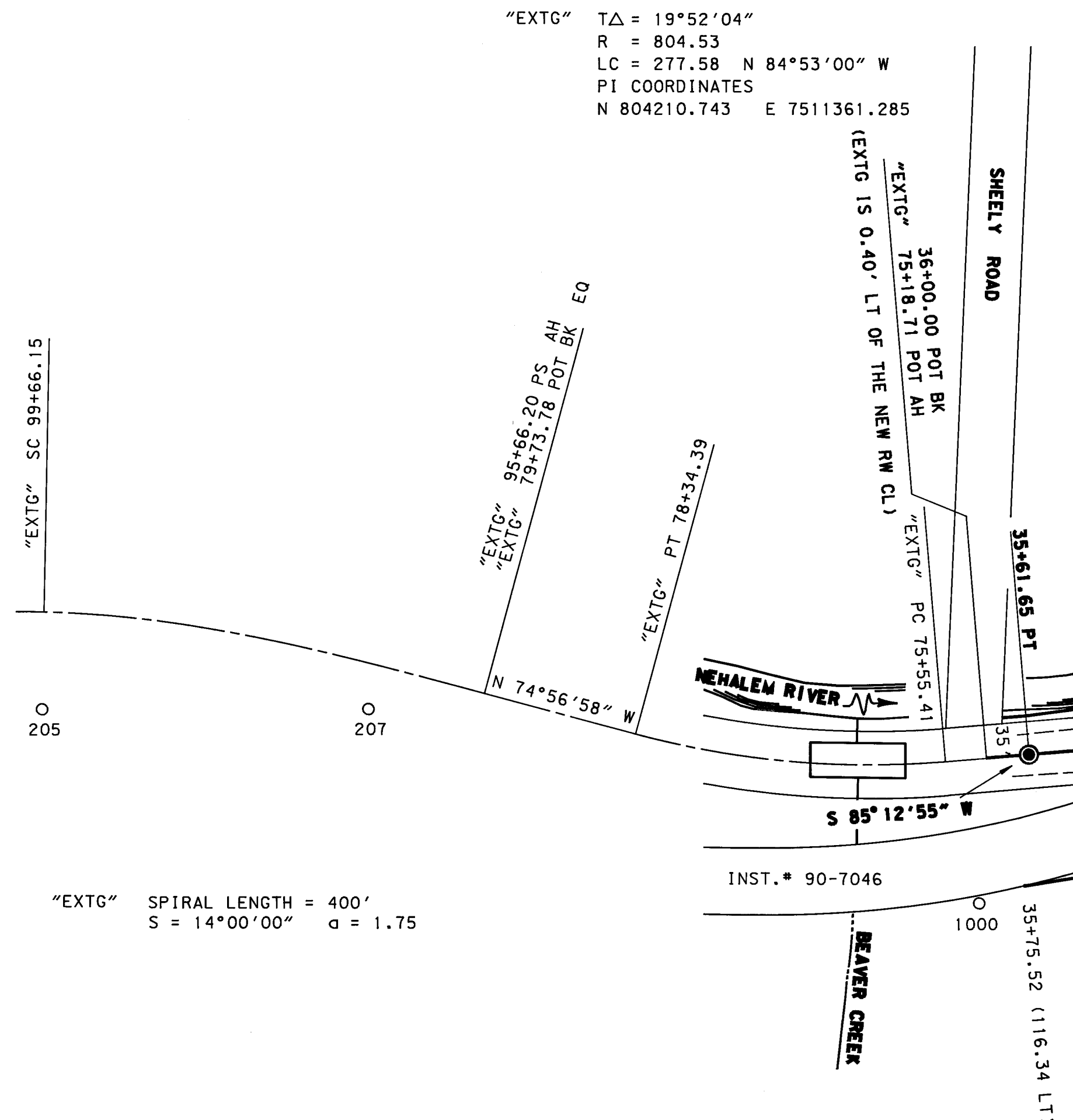
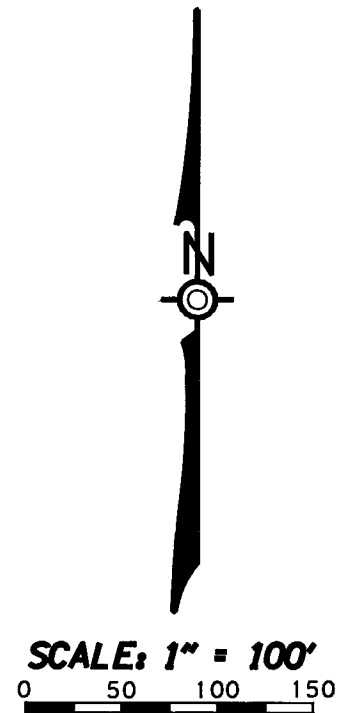
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SHEET 1 OF 5

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"EXTG" ALIGNMENT STA.	COORDINATES
"EXTG" PC 75+55.41	N 804222.57 E 7511501.68
"EXTG" PT 78+34.39	N 804247.33 E 7511225.20
"EXTG" 95+66.20 PS AH	
"EXTG" 79+73.78 POT BK EQ	N 804283.53 E 7511090.60
"EXTG" SC 99+66.15	N 804355.44 E 7510698.24

NOTE: FOR A DETAILED DESCRIPTION
OF THE "EXTG" ALIGNMENT SEE
PS 3789

LEGEND

- SET $\frac{5}{8}$ " X 30" IRON ROD W/YELLOW PLASTIC CAP
STAMPED "ODOT R-W"
- ⊙ SET $\frac{5}{8}$ " X 30" IRON ROD W/ALUM. CAP STAMPED
"OREG. STATE HWY. DIV." W/PUNCH
- FOUND MONUMENT AS NOTED, SEE SHEET 5
- EXISTING EDGE OF PAVEMENT
- ⬡ INST. # NOTED IN TABLE

NOTE: SEE SHEET 5 FOR FOUND MONUMENT DESCRIPTIONS.



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SHEET 2 OF 5


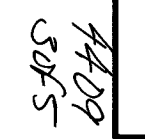
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30FS

SCALE: 1" = 100'

A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 0, 50, 100, and 150, representing feet. The total length of the bar is 150 feet.

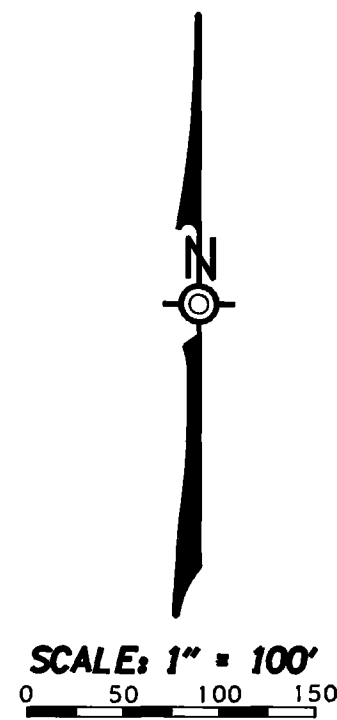
- SET 3/8" X 30" IRON ROD W/YELLOW PLASTIC CAP
STAMPED "ODOT R-W"
- ◎ SET 3/8" X 30" IRON ROD W/ALUM. CAP STAMPED
"OREG. STATE HWY. DIV." W/PUNCH
- FOUND MONUMENT AS NOTED, SEE SHEET 5
- EXISTING EDGE OF PAVEMENT
- ⬡ INST.* NOTED IN TABLE

NO.	DESCRIPTION
4	INST. # 94-06094
6	INST. # 95-00998
7	INST. # 94-06796
8	INST. # 94-08724
9	INST. # 94-09001
10	INST. # 94-06494

SHEET 3 OF 5

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3 of 5

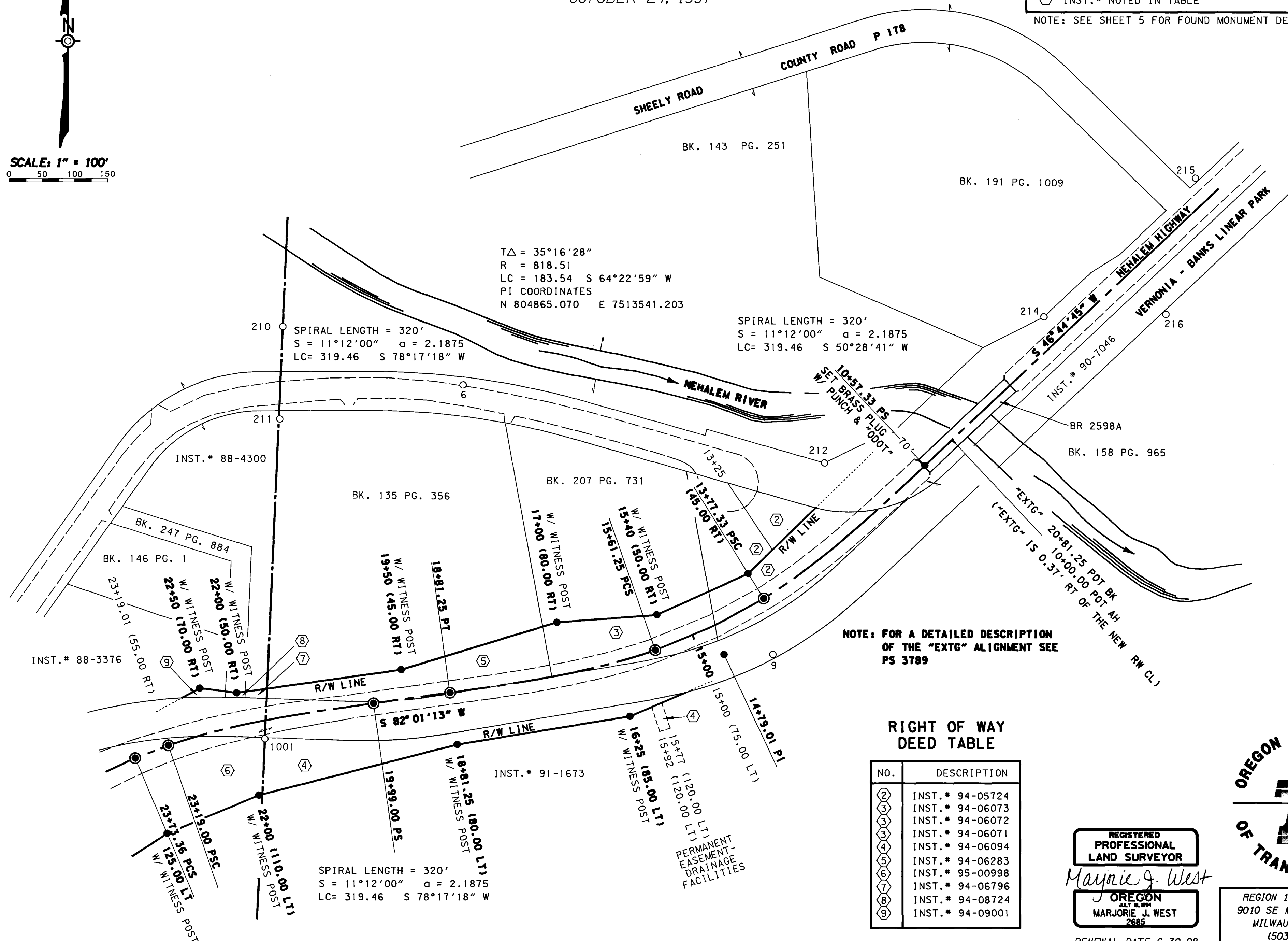
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LEGEND

- SET 5/8" X 30" IRON ROD W/YELLOW PLASTIC CAP STAMPED "ODOT R-W"
- ⊙ SET 5/8" X 30" IRON ROD W/ALUM. CAP STAMPED "OREG. STATE HWY. DIV." W/PUNCH
- FOUND MONUMENT AS NOTED, SEE SHEET 5
- EXISTING EDGE OF PAVEMENT
- ⬡ INST. # NOTED IN TABLE

NOTE: SEE SHEET 5 FOR FOUND MONUMENT DESCRIPTIONS.



NOTE: FOR A DETAILED DESCRIPTION OF THE "EXTG" ALIGNMENT SEE PS 3789

RIGHT OF WAY DEED TABLE

NO.	DESCRIPTION
②	INST. # 94-05724
③	INST. # 94-06073
③	INST. # 94-06072
③	INST. # 94-06071
④	INST. # 94-06094
⑤	INST. # 94-06283
⑥	INST. # 95-00998
⑦	INST. # 94-06796
⑧	INST. # 94-08724
⑨	INST. # 94-09001

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Marjorie J. West

OREGON
JULY 18, 1994
MARJORIE J. WEST
2685

RENEWAL DATE 6-30-98

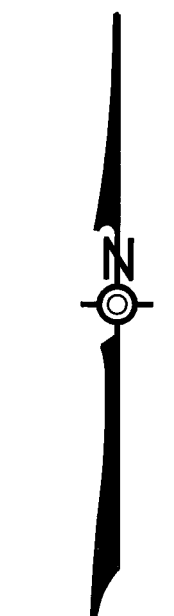


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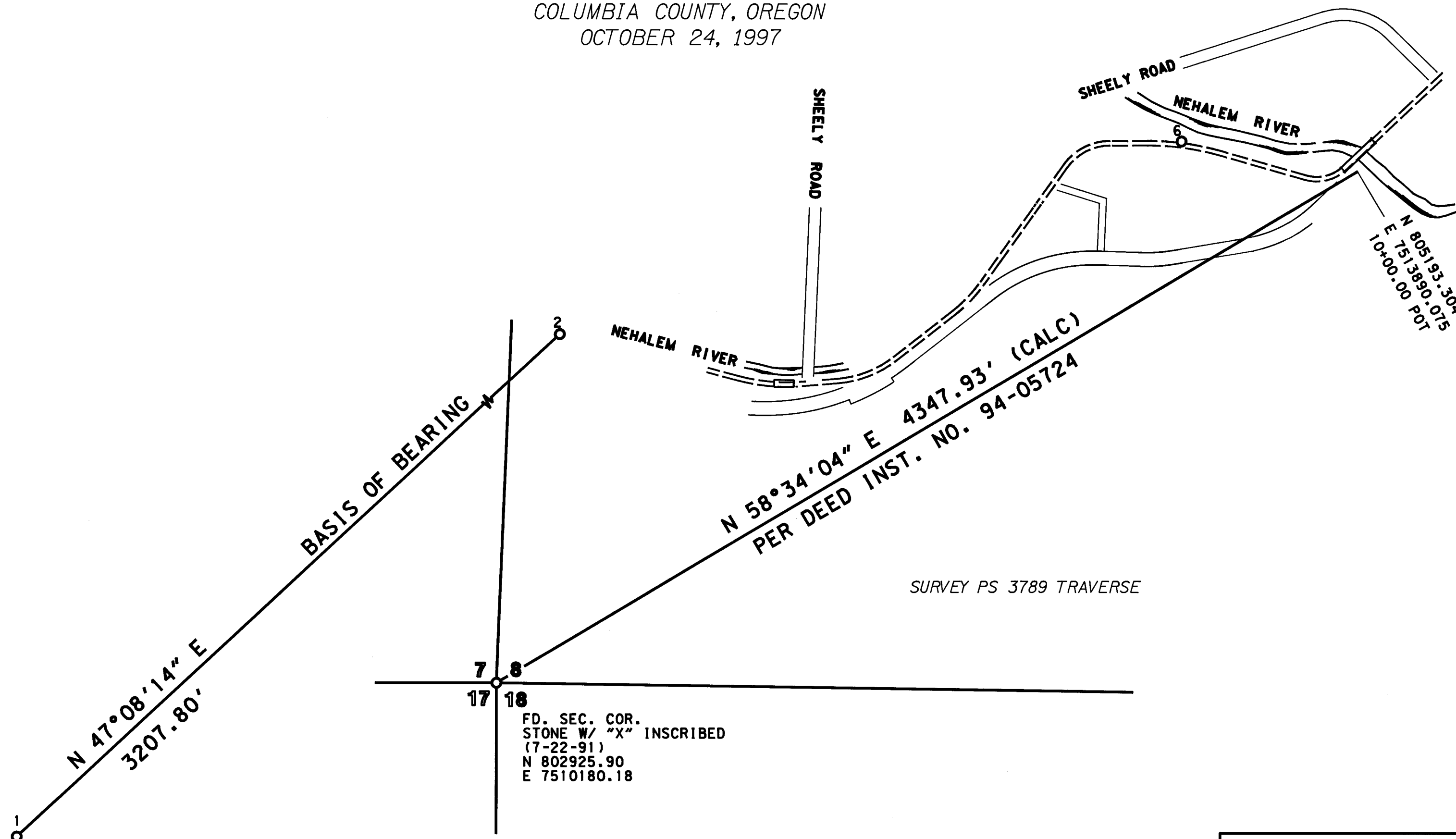
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NO SCALE



LEGEND

- FOUND MONUMENT AS NOTED
- EXISTING EDGE OF PAVEMENT

NOTE: SEE SHEET 5 FOR FOUND MONUMENT DESCRIPTIONS.

TIED POSITIONS TO FOUND MONUMENTS

PT. #	NORTHING	EASTING	CALCULATED CENTERLINE STATION	CALCULATED OFFSET	DESCRIPTION
1	802256.72	7508101.27			GPS STATION "MILE 65" 3" BRASS DISK ON 2" IRON PIPE PUNCHED, AND DOWN 0.5'
2	804438.81	7510452.54			GPS STATION "TREHARNE" 3" BRASS DISK ON 2" IRON PIPE PUNCHED, AND DOWN 0.5'
6	805276.91	7513143.87	17+88.23	462.66 RT	5/8" IRON PIPE W/RED PLASTIC CAP STAMPED "OSHD TRAVERSE"
9	804865.09	7513615.83	14+07.96	80.60 LT	5/8" IRON PIPE W/RED PLASTIC CAP STAMPED "OSHD TRAVERSE"
50	804752.49	7512564.29	24+23.76	75.50 RT	5/8" IRON ROD W/RED PLASTIC CAP STAMPED "OSHD TRAVERSE"
205	804268.67	7510696.60	99+66.24	86.82 LT	5/8" IRON ROD & PLASTIC YELLOW CAP STAMPED "OREGON STATE PARKS"
207	804269.40	7510987.42	96+62.81	40.00 LT	5/8" IRON ROD & PLASTIC YELLOW CAP STAMPED "OREGON STATE PARKS" FLUSH
214	805381.19	7514030.81	18+50.00	40.00 RT	5/8" IRON ROD W/4"X4" WOOD RIGHT OF WAY POST
215	805593.38	7514262.84	15+35.61	35.52 RT	5/8" IRON ROD W/YELLOW PLASTIC CAP
216	805385.24	7514217.39	17+11.34	84.90 LT	3/4" IRON PIPE, FLARED
1000	804096.45	7511531.95	75+35.84	128.24 LT	5/8" IRON ROD W/YELLOW PLASTIC CAP, STAMPED "OREGON STATE PARKS"
* 210	805365.47	7512868.97	20+52.59	588.96 RT	1" IRON PIPE W/ 5/8" IRON ROD INSIDE
* 211	805224.13	7512864.26	20+75.12	449.84 RT	5/8" IRON ROD
* 212	805158.14	7513694.93	11+68.78	107.24 RT	5/8" IRON ROD W/4"X4" WOOD RIGHT OF WAY POST, PAINTED "OSHD 40"
* 217	804127.70	7512814.70	25+25.99	593.08 LT	3" BRASS DISK ON 2" IRON PIPE, STAMPED "T.4 N., R.4 W., S 8, CS1/16, LS 1080, 1986"
*1001	804735.84	7512841.34	21+72.22	27.56 LT	5/8" IRON ROD W/YELLOW PLASTIC CAP, STAMPED "L. JERRY KEENON PLS 1030"

* THESE POINTS ARE SHOWN FOR INFORMATION ONLY AND WERE LAST TIED 5-30-92 (PS 3789)

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MARJORIE J. WEST
JULY 16, 1994
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RENEWAL DATE 6-30-98



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SHEET 5 OF 5