

S.W. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.E. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.W. 1/4 SEC. 25 T.3N., R.10E., W.M.

NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE LOCATION OF THE CENTERLINE AND RIGHT-OF-WAY OF COLUMBIA RIVER HIGHWAY (I-84) IN THE VICINITY OF JAYMAR ROAD AND EASTWARD TO THE UPRR OVERCROSSING AT APPROXIMATE MILEPOST 63.4 IN HOOD RIVER, HOOD RIVER COUNTY, OREGON. THIS IS BEING DONE IN SUPPORT OF A PROJECT TO WIDEN BRIDGES AT THESE TWO LOCATIONS.

TO RESOLVE THE CENTERLINE OF COLUMBIA RIVER HIGHWAY, I HELD THE RECORD ALIGNMENT AS SHOWN ON ODOT STRIP MAP OF COLUMBIA RIVER HIGHWAY - HOOD RIVER SECTION (DRG. NO. 6B-24-4). I HELD THE 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "LS 932 OR 22098 WA", #1004, FOUND ON THE SOUTH RIGHT-OF-WAY LINE OF I-84 175 FEET (53.340 m) RIGHT OF CENTERLINE STATION 1141+50 (34+792.920 m) JUST WEST OF JAYMAR ROAD. #1004 WAS SET ON COUNTY SURVEY NUMBER 90015. I THEN HELD THE 2 1/2" BRASS CAP STAMPED "TERRA SURVEYING PLS 1815" SET 4.0 FEET NORTHERLY OF THE SOUTH RIGHT-OF-WAY LINE OF I-84, REFERENCE 1124+28.75 PT. WB, ON COUNTY SURVEY NUMBER 93008. THIS RESULTED IN THE BEST FIT WITH THE REMAINING MONUMENTATION FOUND ALONG I-84 AND A FOUND 4" BRASS DISC STAMPED "BREAK 2, 1975".

THIS RESOLUTION IS BASED UPON THE MONUMENTATION SHOWN OR REFERENCED HEREON ONLY. WE FOUND A NUMBER OF MONUMENTS ON THE WEST END OF THE PROJECT THAT ARE RELATED TO THE RIGHT-OF-WAY AS SHOWN ON ODOT DRG. NO. 6B-24-4, BUT NO RELATED MONUMENTS ON THE EAST END. THE TWO MONUMENTS FOUND ON THE EAST END ARE RELATED TO ODOT 12V-74 PLANS FOR PAVING AND SIGNING AND REFER TO "EB" AND "WB" ALIGNMENTS THAT ARE NOT TIED TO THE 6B-24-4 ALIGNMENT. RIGHT-OF-WAY LINES HAVE BEEN COMPILED FROM INFORMATION ON ODOT DRG. NO. 6B-24-4, DOCUMENTS OBTAINED FROM ODOT ROADWAY DEPARTMENT AND DIMENSIONS SCALED FROM DRG. NO. 6B-24-4.

THE SURVEY WORK WAS PERFORMED BETWEEN MARCH AND APRIL, 1999 BY A W&H PACIFIC FIELD CREW USING A LEICA TCA 1800 WITH PC CARD. FOUR G.P.S. POINTS ("CRH-1", "CRH-2", "CRH-3" AND "CRH-4") SET BY W&H PACIFIC WERE USED FOR CONTROL AND A TRAVERSE/NETWORK WAS RUN BETWEEN THEM.

DATA WAS REDUCED USING LISCAD SOFTWARE AND THE NETWORK WAS ADJUSTED USING STAR*NET-GPS SOFTWARE. THE ADJUSTMENT WAS PERFORMED WITH A RESULTING MAXIMUM ELLIPTICAL ERROR OF 0.005 METERS MAJOR AND 0.004 METERS MINOR.

THE HORIZONTAL DATUM WAS NAD 83(91) OREGON NORTH ZONE. THE STATE PLANE COORDINATES HAVE BEEN CONVERTED TO A LOCAL DATUM PLANE BY DIVIDING EACH COORDINATE BY A COMBINED FACTOR OF 0.999932918.

RESEARCH

6B-24-4 ODOT DRG. NO. 6B-24-4, HOOD RIVER SECTION, COLUMBIA RIVER HIGHWAY, HOOD RIVER COUNTY, JUNE, 1947 REVISED MAY, 1979. SHOWS CENTERLINE ALIGNMENT AND RIGHT-OF-WAY LINES IN THE VICINITY OF AND BETWEEN THE BRIDGE SITES OF INTEREST.

12V-74 STATE HIGHWAY DIVISION PLANS FOR PROPOSED PROJECT, PAVING AND SIGNING, MITCHELL PT. - E. HOOD RIVER INTCHGE. SEC., COLUMBIA RIVER HIGHWAY, HOOD RIVER COUNTY MAY, 1975. SHEETS 10, 11 AND 12 SHOW "EB" AND "WB" ALIGNMENTS AND STATIONING OF TWO "EB" MONUMENTS RECOVERED ("EB" 1176+83.36 P.C.S. & EQUA. "EB" 1180+83.36 P.T. BK = "EB" 1181+26.98 P.O.T. AH.

93008 SURVEY FOR WAL-MART, AUGUST 1991. SHOWS MONUMENTS OR OFFSET MONUMENTS ALONG THE SOUTH RIGHT-OF-WAY OF COLUMBIA RIVER HIGHWAY (I-84).

90015 SURVEY FOR CITY OF HOOD RIVER, FILED APRIL 20, 1990. SHOWS MONUMENTS ALONG THE SOUTH RIGHT-OF-WAY OF COLUMBIA RIVER HIGHWAY (I-84) AND A MATHEMATICAL CHECK TO USC&GS BREAK 2 CONTROL POINT.

ODOT FIELD BOOK 1970 - HOOD RIVER, 1964 PAGES 115 & 129 (REV. R.W. 1103 TO 1167). SHOW C.L. STATION 1124+28.75 AH. P.O.T. REFERENCE MONUMENTS SET. REFERENCE MONUMENT RECOVERED AND HELD AS SHOWN ON SURVEY #93008 (4.0 FEET OFFSET FROM THE SOUTHERLY RIGHT-OF-WAY LINE OF I-84, ALSO REFERENCED TO 1124+28.75 PT WB).

FILED
 DEC 16, 1999
Richard S. Hill
 COUNTY SURVEYOR
 DEPT 100



TO CONVERT METERS TO S. I. FEET DIVIDE BY 0.3048

11/18/99
 REGISTERED PROFESSIONAL LAND SURVEYOR
Mark A. Hawkins
 OREGON
 JULY 25, 1991
 MARK A. HAWKINS
 2530
 RENEWAL: JUNE 30, 2001

OREGON DEPT. OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY
 AND
 RETRACEMENT MAP

COLUMBIA RIVER HIGHWAY
 AT JAYMAR ROAD
 HOOD RIVER COUNTY

NOVEMBER 12, 1999

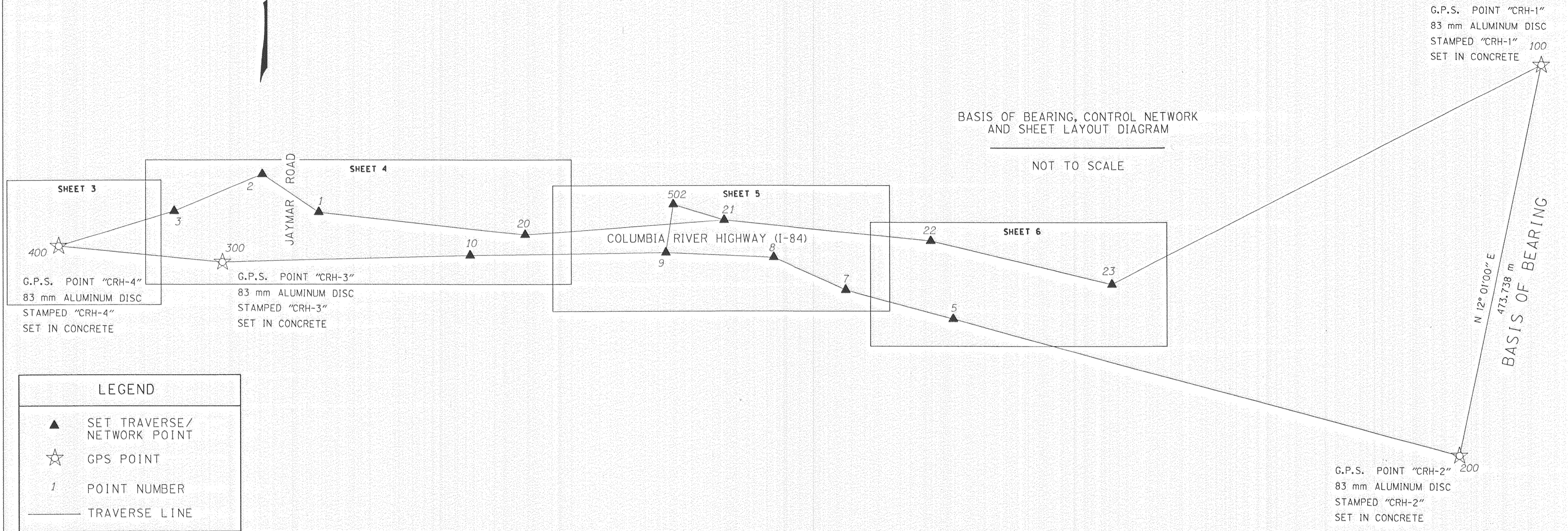
SCALE: NO SCALE

FOR O.D.O.T REGION 1
 123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037

KEY NO'S. 08258 & 07969

SHEET 1 OF 6

S.W. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.E. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.W. 1/4 SEC. 25 T.3N., R.10E., W.M.



LEGEND	
▲	SET TRAVERSE/ NETWORK POINT
☆	GPS POINT
1	POINT NUMBER
—	TRAVERSE LINE

NETWORK/TRAVERSE POINT COORDINATE TABLE

PT#	NORTHING	EASTING	DATE	DESCRIPTION
1	227933.012	2419958.529	3/24/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
2	227978.249	2419891.214	3/24/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
3	227934.523	2419787.336	3/24/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
4	227962.320	2420475.150	3/25/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
5	227806.004	2420717.106	3/25/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
7	227840.870	2420588.849	3/31/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
8	227879.130	2420502.045	3/31/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
9	227884.850	2420372.995	3/31/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
10	227881.999	2420139.708	3/31/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
20	227906.513	2420204.794	3/29/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
21	227923.533	2420442.830	3/31/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
22	227898.669	2420690.522	4/8/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
23	227847.294	2420906.350	4/1/99	SET 16 mm X 762 mm IR W/RPC "W&H PACIFIC CONTROL"
100	228106.381	2421419.498	4/5/99	SET 83 mm ALUMINUM CAP IN CONCRETE "CRH-1"
200	227643.024	2421320.867	4/5/99	SET 83 mm ALUMINUM CAP IN CONCRETE "CRH-2"
300	227873.815	2419844.350	4/5/99	SET 83 mm ALUMINUM CAP IN CONCRETE "CRH-3"
400	227893.033	2419651.884	4/5/99	SET 83 mm ALUMINUM CAP IN CONCRETE "CRH-4"
502	227942.025	2420381.791	4/1/99	FND 4" BRASS DISC "BREAK 2 1975"

LDP COORDINATES: AVERAGE PROJECT SPC = LDP X 0.999932918
 RPC = RED PLASTIC CAP
 IR = IRON ROD

FILED
 DEC 16, 1999
Richard G. Stahl
 COUNTY SURVEYOR
 DEPT

11/18/99
 REGISTERED
 PROFESSIONAL
 LAND SURVEYOR
Mark A. Hawkins
 OREGON
 JULY 25, 1991
 MARK A. HAWKINS
 2530
 RENEWAL: JUNE 30, 2001



TO CONVERT METERS TO S. I. FEET DIVIDE BY 0.3048

OREGON DEPT. OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY
 AND
 RETRACEMENT MAP
 COLUMBIA RIVER HIGHWAY
 AT JAYMAR ROAD
 HOOD RIVER COUNTY
 NOVEMBER 12, 1999

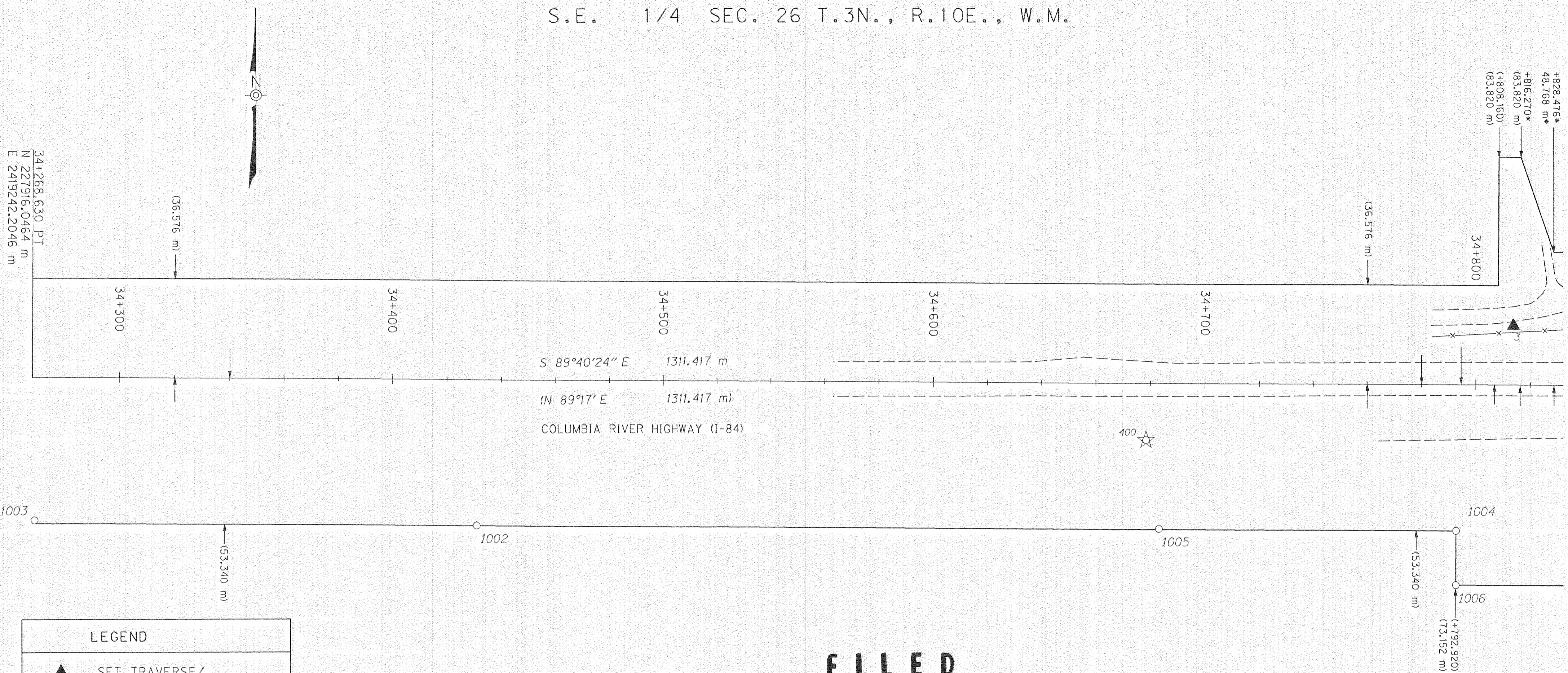
SCALE: NO SCALE
 FOR O.D.O.T REGION 1
 123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037
 KEY NO'S. 08258 & 07969

SHEET 2 OF 6

NOTE:
 G.P.S. POINT "CRH-2"
 STATE PLANE COORDINATES
 N 227627.754
 E 2421158.440

99098

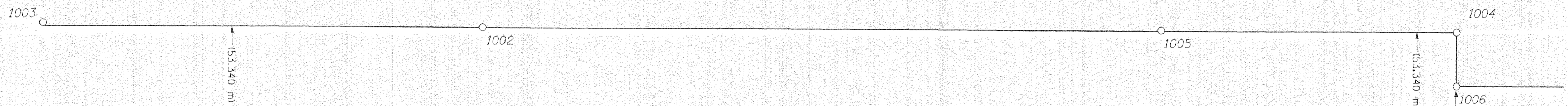
S.W. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.E. 1/4 SEC. 26 T.3N., R.10E., W.M.



34+268.630 PT
 N 227916.0464 m
 E 2419242.2046 m

+828.476*
 48.768 m**
 +816.270*
 (83,820 m)
 (+808,160)
 (83,820 m)

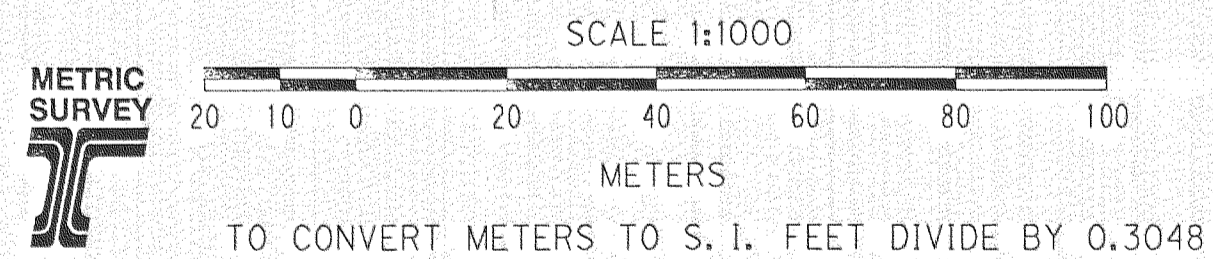
S 89°40'24" E 1311.417 m
 (N 89°17' E 1311.417 m)
 COLUMBIA RIVER HIGHWAY (I-84)



LEGEND	
▲	SET TRAVERSE/ NETWORK POINT
()	RECORD DATA AS PER ODOT R/W MAP #6B-24-4
○	FOUND MONUMENT AS NOTED
☆	GPS POINT
1	POINT NUMBER
—	RIGHT-OF-WAY LINE
- - -	EDGE OF PAVEMENT
—X—	FENCE

FILED
 DEC 16, 1999
Richard J. ...
 COUNTY SURVEYOR

11/18/99
 REGISTERED
 PROFESSIONAL
 LAND SURVEYOR
Mark A. Hawkins
 OREGON
 JULY 25, 1991
 MARK A. HAWKINS
 2530
 RENEWAL: JUNE 30, 2001



RECOVERED MONUMENT LIST

PT#	NORTHING	EASTING	STA	OFFSET	DATE	DESCRIPTION
1002	227861.912	2419404.372	34+431.104	53.209 RT	4/8/99	FND 2-1/2" BD, "TERRA SURVEYING PLS 1815", REF CS 93008
1003	227863.921	2419242.843	34+269.566	52.121 RT	4/8/99	FND 2-1/2" BD, "TERRA SURVEYING PLS 1815", REF CS 93008
1004	227859.718	2419766.182	34+792.920	53.340 RT	4/8/99	FND 5/8" IRON ROD W/YPC, "LS 932 OR 22098 WA", REF CS 90015
1005	227860.610	2419656.622	34+683.357	53.073 RT	4/8/99	FND 5/8" IRON ROD W/YPC, "LS 923 OR 22098 WA", REF CS 90015
1006	227839.902	2419766.005	34+792.919	73.152 RT	4/8/99	FND 5/8" IRON ROD W/YPC, "LS 923 OR 22098 WA", REF CS 90015

LDP COORDINATES: AVERAGE PROJECT SPC = LDP X 0.999932918
 CS = COUNTY SURVEY
 * = SCALED OR APPROXIMATE DIMENSION

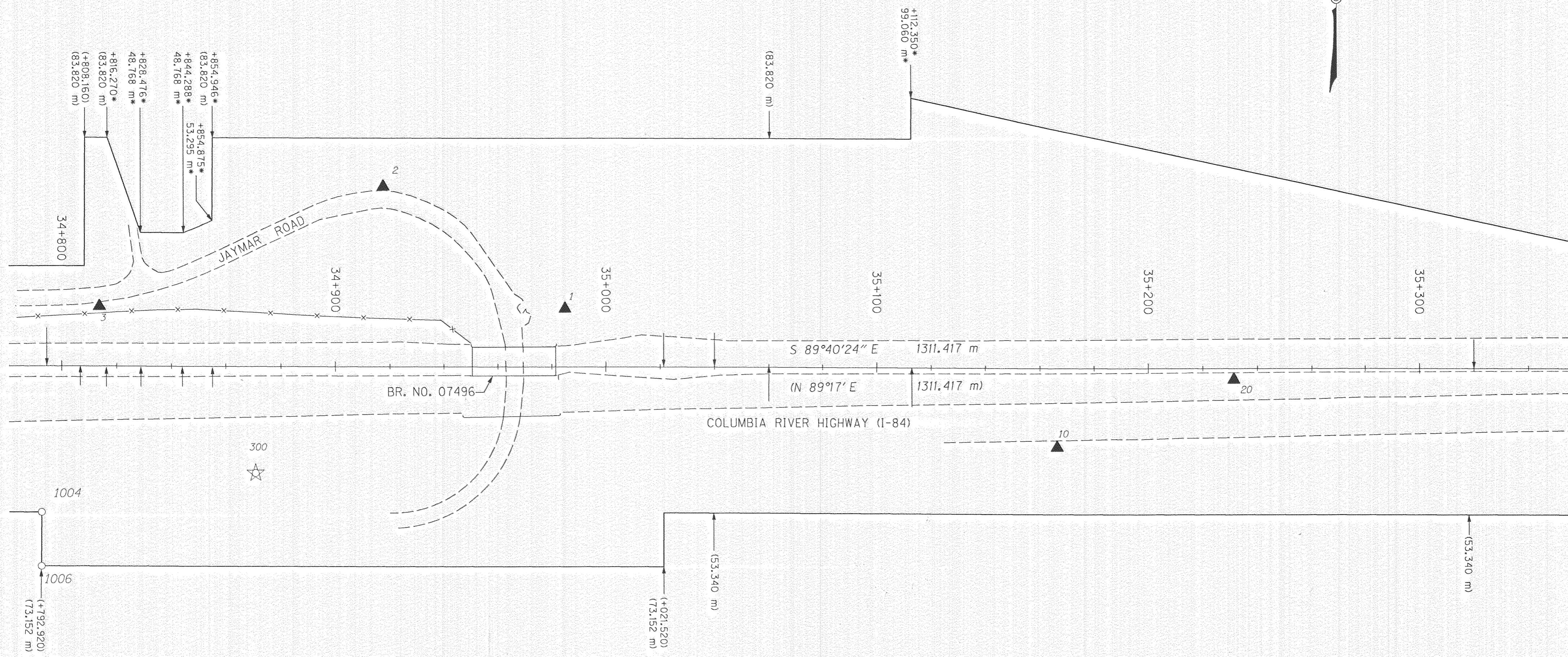
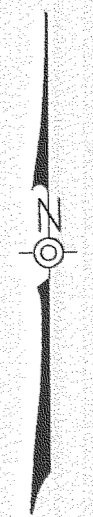
YPC = YELLOW PLASTIC CAP
 BD = BRASS DISC
 REF = REFERENCE

CADD FILE NAME: 07969RET.DGN
 WHP PROJECT NO. 04.2658.3002

OREGON DEPT. OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY
 AND
 RETRACEMENT MAP
 COLUMBIA RIVER HIGHWAY
 AT JAYMAR ROAD
 HOOD RIVER COUNTY
 NOVEMBER 12, 1999
 FOR O.D.O.T REGION 1
 123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037
 KEY NO'S. 08258 & 07969
 SHEET 3 OF 6

99098

S.E. 1/4 SEC. 26 T.3N., R.10E., W.M.

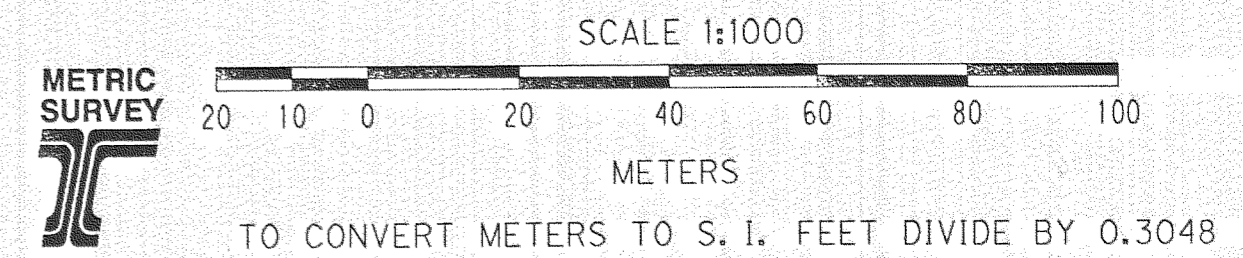


LEGEND	
▲	SET TRAVERSE/ NETWORK POINT
()	RECORD DATA AS PER ODOT R/W MAP #6B-24-4
○	FOUND MONUMENT AS NOTED
☆	GPS POINT
1	POINT NUMBER
—	RIGHT-OF-WAY LINE
- - -	EDGE OF PAVEMENT
— X —	FENCE
—	BRIDGE LINE

* = SCALED OR APPROXIMATE DIMENSION

FILED
DEC 16, 1999
Bill G. A. H.
COUNTY SURVEYOR

11/18/99
REGISTERED
PROFESSIONAL
LAND SURVEYOR
Mark A. Hawkins
OREGON
JULY 25, 1991
MARK A. HAWKINS
2530
RENEWAL: JUNE 30, 2001

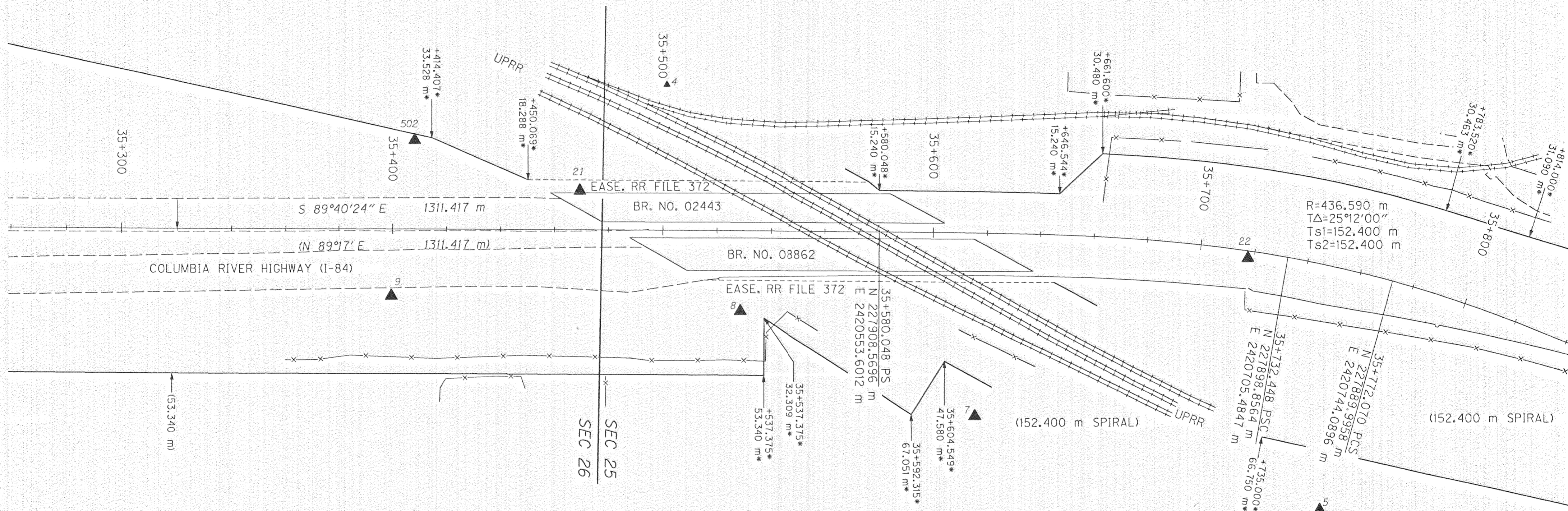


OREGON DEPT. OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY
AND
RETRACEMENT MAP
COLUMBIA RIVER HIGHWAY
AT JAYMAR ROAD
HOOD RIVER COUNTY
NOVEMBER 12, 1999
FOR O.D.O.T REGION 1
123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037
KEY NO'S. 08258 & 07969
SHEET 4 OF 6

CADD FILE NAME: 07969RET.DGN
WHP PROJECT NO. 04.2658.3002

99098

S.E. 1/4 SEC. 26 T.3N., R.10E., W.M.
 S.W. 1/4 SEC. 25 T.3N., R.10E., W.M.



LEGEND	
▲	SET TRAVERSE/ NETWORK POINT
()	RECORD DATA AS PER ODOT R/W MAP #6B-24-4
1	POINT NUMBER
—	RIGHT-OF-WAY LINE
—	SECTION LINE
++++	RAILROAD TRACKS
----	EDGE OF PAVEMENT
—X—	FENCE
—	BRIDGE LINE

* = SCALED OR APPROXIMATE DIMENSION

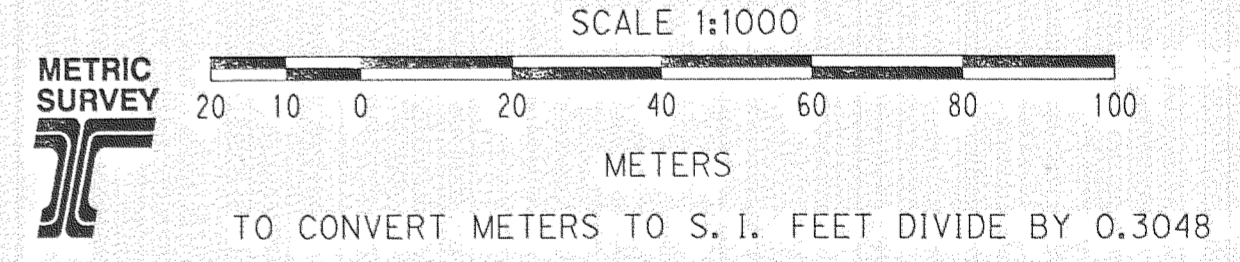
FILED
 DEC 16, 1999
Mark A. Hawkins
 COUNTY SURVEYOR

11/18/99
 REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

Mark A. Hawkins
 OREGON
 JULY 25, 1991
 MARK A. HAWKINS
 2530

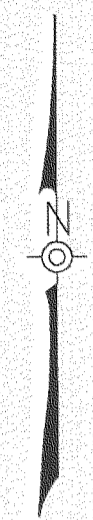
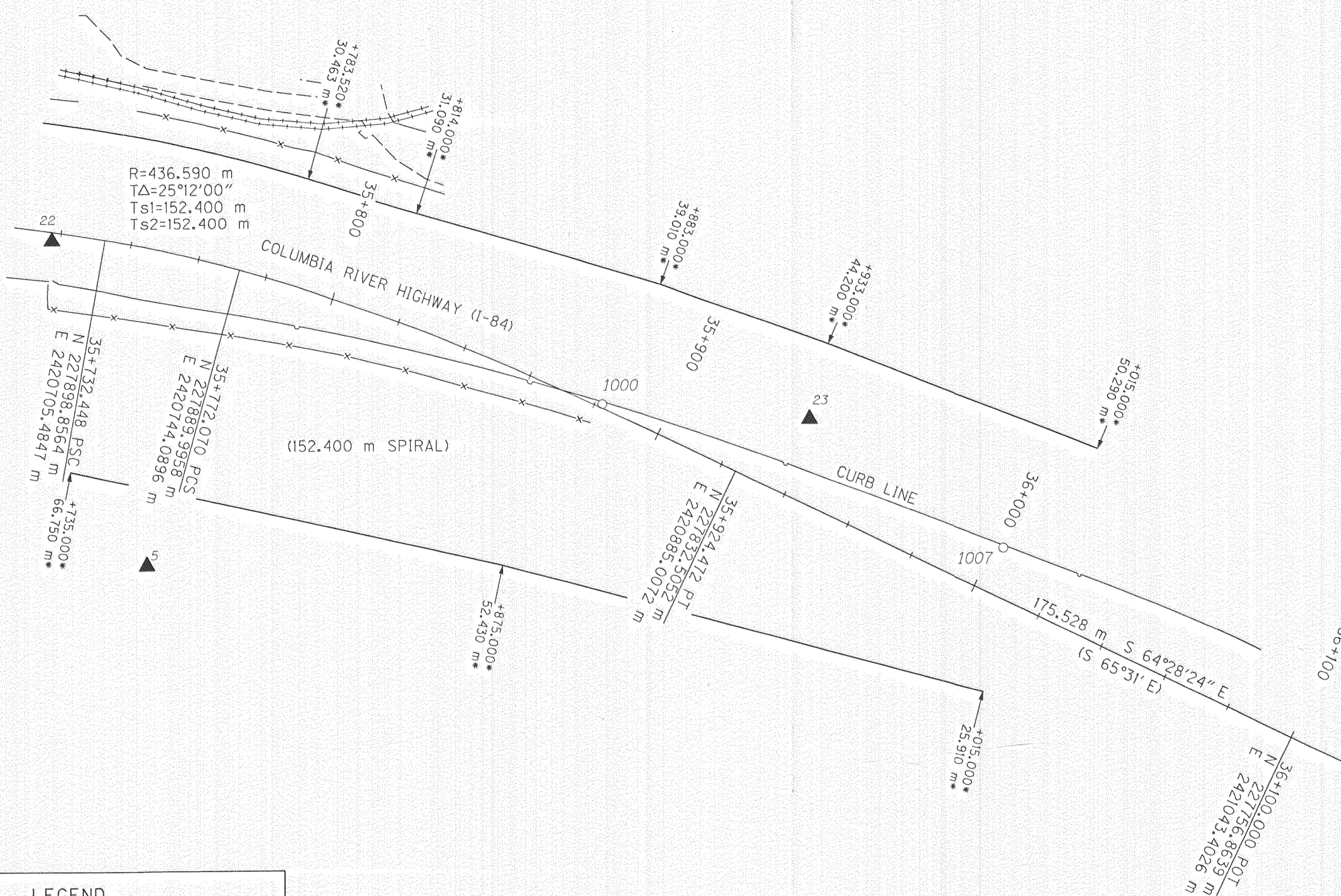
RENEWAL: JUNE 30, 2001

CADD FILE NAME: 07969RET.DGN
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OREGON DEPT. OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY
 AND
 RETRACEMENT MAP
 COLUMBIA RIVER HIGHWAY
 AT JAYMAR ROAD
 HOOD RIVER COUNTY
 NOVEMBER 12, 1999
 FOR O.D.O.T REGION 1
 123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037
 KEY NO'S. 08258 & 07969
 SHEET 5 OF 6

99098



LEGEND

- ▲ SET TRAVERSE/ NETWORK POINT
- () RECORD DATA AS PER ODOT R/W MAP #6B-24-4
- FOUND MONUMENT AS NOTED
- 1 POINT NUMBER
- RIGHT-OF-WAY LINE
- ++++ RAILROAD TRACKS
- EDGE OF PAVEMENT
- × FENCE

RECOVERED MONUMENT LIST

* = SCALED OR APPROXIMATE DIMENSION

PT#	NORTHING	EASTING	STA	OFFSET	DATE	DESCRIPTION
1000	227851.555	2420847.057	35+882.029	1.028 LT	4/8/99	FND 3/4" IRON ROD, ODOT MONUMENT
1007	227810.720	2420961.340	36+002.740	13.236 LT	4/21/99	FND 5/8" IRON ROD, ODOT MONUMENT

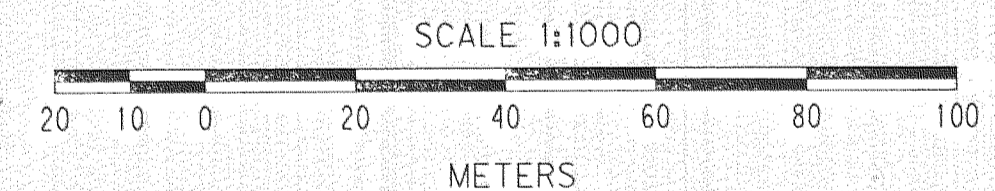
LDP COORDINATES: AVERAGE PROJECT SPC = LDP X 0.999932918

FILED

DEC 16, 1999
Richard G. Hill
 COUNTY SURVEYOR

11/18/99
 REGISTERED PROFESSIONAL LAND SURVEYOR
Mark A. Hawkins

OREGON
 JULY 25, 1991
 MARK A. HAWKINS
 2530
 RENEWAL: JUNE 30, 2001



TO CONVERT METERS TO S. I. FEET DIVIDE BY 0.3048

OREGON DEPT. OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP

COLUMBIA RIVER HIGHWAY

AT JAYMAR ROAD

HOOD RIVER COUNTY

NOVEMBER 12, 1999

FOR O.D.O.T REGION 1

123 NW FLANDERS ST., PORTLAND, OREGON 97209-4037

KEY NO'S. 08258 & 07969

SHEET 6 OF 6

CADD FILE NAME: 07969RET.DGN
 WHP PROJECT NO. 04.2658.3002