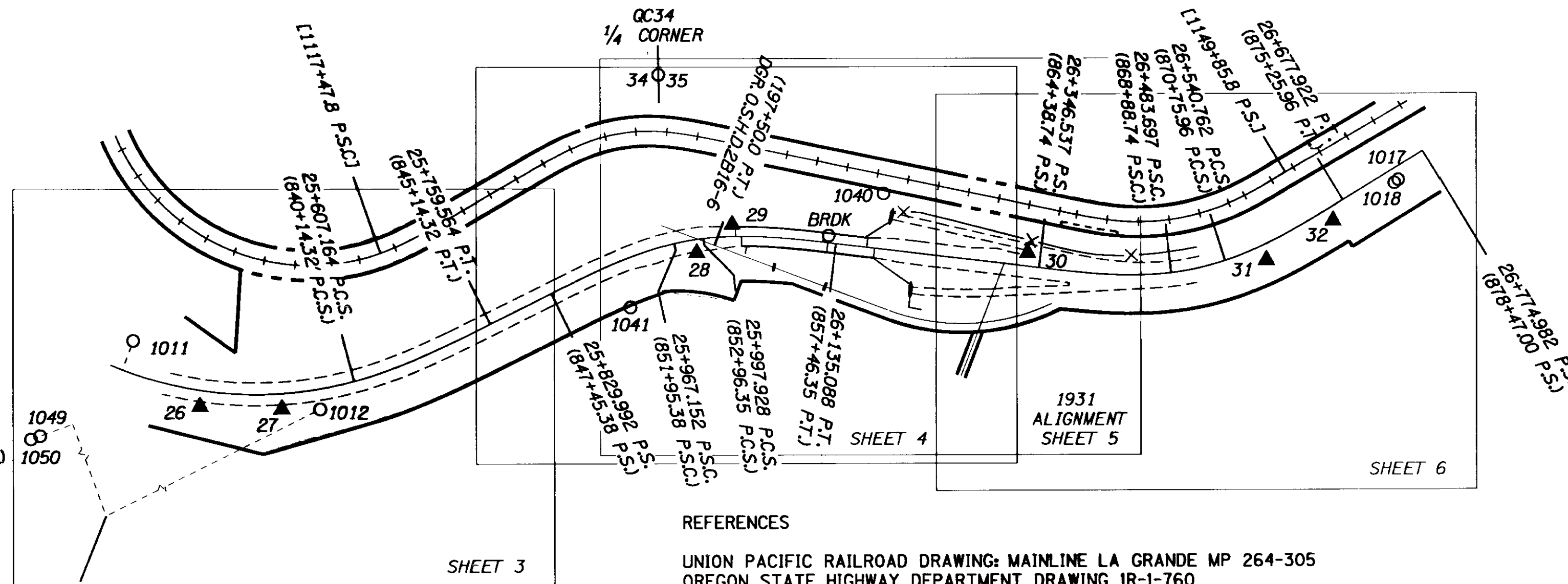


SE 1/4 SEC. 34; SW 1/4 SEC. 35; T 2 S, R 37 E; W. M.



REGISTERED
PROFESSIONAL
LAND SURVEYOR
Robert E. Butler
OREGON
JULY 25, 1995
ROBERT E. BUTLER
2733
EXPIRES 12/31/2003

REFERENCES

- UNION PACIFIC RAILROAD DRAWING: MAINLINE LA GRANDE MP 264-305
- OREGON STATE HIGHWAY DEPARTMENT DRAWING 1R-1-760
- OREGON STATE HIGHWAY DEPARTMENT DRAWING 2B16-6
- OREGON STATE HIGHWAY DEPARTMENT DRAWING 8B-6-10
- OREGON STATE HIGHWAY DEPARTMENT DRAWING 8B-6-11
- OREGON STATE HIGHWAY DEPARTMENT R/W FILE 27102
- OREGON STATE HIGHWAY DEPARTMENT R/W FILE 27105
- OREGON STATE HIGHWAY DEPARTMENT R/W FILE 27108
- OREGON STATE HIGHWAY DEPARTMENT CONSTRUCTION PLANS 12V-105
- OREGON STATE HIGHWAY DEPARTMENT CONSTRUCTION PLANS 35V-42
- UNION COUNTY SURVEY NUMBER 004-2000

LEGEND

- () RECORD DATA FROM O.S.H.D. DRAWING 8B-6-11 OR AS NOTED
- [] RECORD DATA FROM RAILROAD DRAWINGS
- ▲ SET NETWORK POINT
- FOUND 5/8" IRON ROD, OR AS NOTED
- EXISTING CENTERLINE
- EXISTING R/W LINE
- +— U.P.R.R. CENTERLINE
- - - U.P.R.R. BOUNDARY
- - - EDGE OF PAVEMENT

SURVEY NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO LOCATE OREGON DEPARTMENT OF TRANSPORTATION'S (O. D. O. T.) RIGHT-OF-WAY (R/W) BOUNDARY THROUGH A PORTION OF THE OLD OREGON TRAIL HIGHWAY. THE PORTION TO BE RETRACED IS FROM STATION 25+760 TO STATION 26+700 AS DESCRIBED BY CONSTRUCTION PLANS 35V-42. THE TWO BRIDGES AT LOWER PERRY INTERCHANGE ARE DUE TO BE REPLACED IN JANUARY 2003. O. D. O. T. R/W THROUGH THIS SECTION IS BOUNDED ON THE NORTHERLY SIDE BY THE UNION PACIFIC RAILROAD (U. P. R. R.) R/W, AND ON THE SOUTHERLY SIDE BY A COMBINATION OF R/W ACQUIRED FOR THE CONSTRUCTION OF THE RELOCATED OLD OREGON TRAIL HIGHWAY (I-84), AND R/W FROM THE ORIGINAL OLD OREGON TRAIL HIGHWAY.

NO MONUMENTS WERE FOUND FOR THE UNION PACIFIC RAILROAD R/W. CENTERLINE WAS DETERMINED BY LOCATING THE RAILROAD TRACKS ON TANGENTS AND USING RECORD CURVE DATA FROM RAILROAD DRAWINGS FOR THE CURVES. THE R/W BOUNDARY WAS PLACED AT THE RECORD DISTANCE OF (50 FEET) FROM THE CENTERLINE AS SHOWN ON THE U. P. R. R. DRAWINGS.

THE R/W CENTERLINE FOR THIS SECTION OF THE RELOCATED OLD OREGON TRAIL HIGHWAY, I-84, WAS LOCATED USING OREGON STATE HIGHWAY DEPARTMENT (O.S.H.D.) DRAWINGS 8B-6-10 AND 8B-6-11 IN CONJUNCTION WITH O.S.H.D. R/W FILES 27102, 27105, AND 27108. THE POINT OF SPIRAL (P. S.) AT 24+954.390 (818+72.60) WAS SET AT RECORD DISTANCE AS STAMPED ON A FOUND BRASS CAP. AN EXISTING BRASS DISC FOUND ON THE FORWARD SEMI-TANGENT OF THIS CURVE MARKED "POST" WAS ACCEPTED AS A POINT ON SEMI-TANGENT (P. O. S. T.). THE POINT OF INTERSECTION (P. I.) 25+467.129 (835+54.88) FOR THIS CURVE WAS PLACED USING RECORD BEARINGS FROM DRAWING 8B-6-11. STATION 25+985.620 P.I. (852+55.96) WAS SET AT RECORD BEARING AND DISTANCES FROM 25+467.129 P.I. (835+54.88). THE NEXT P. I. WAS THEN PLACED AT THE INTERSECTION OF RECORD BEARINGS FROM THE AFORE MENTIONED P. I. AND A POINT SET AT RECORD DISTANCE AS STAMPED ON A FOUND BRASS DISC AT (877+27.78). RECORD CURVE DATA WAS THEN APPLIED TO ALL THREE CURVES. EXISTING METRIC STATIONING FOR THIS ALIGNMENT WAS CARRIED FORWARD FROM STATION 19+505.820 (EQUATION: 640+27.28 BACK = 639+95.47 AHEAD). ENGLISH STATIONING WAS ACQUIRED FROM O. S. H. D. DRAWINGS 8B-6-10 AND 8B-6-11. THEREFORE, CONVERSION OF ENGLISH TO METRIC FOR STATIONING WILL NOT MATCH.

THE PORTION OF R/W THAT WAS INCORPORATED FROM THE ORIGINAL 1931 HIGHWAY ALIGNMENT WAS DETERMINED USING O. S. H. D. DRAWINGS 2B16-6 AND 1R-1-760. THE CENTERLINE BEARING FOR THIS ALIGNMENT WAS ESTABLISHED USING A SPLIT FROM THE REMAINING BRIDGE FOOTINGS FROM THE OLD ROAD CROSSING OF THE GRANDE RONDE RIVER. RECORD DISTANCES AND CURVE DATA WERE THEN USED TO ESTABLISH CENTERLINE ALIGNMENT. THE R/W BOUNDARY WAS ESTABLISHED BY MEASURING 9.144 METERS (30 FEET) AT RIGHT ANGLES TO CENTERLINE.

THE BASIS OF BEARING FOR THIS SURVEY WAS FROM TWO GLOBAL POSITION SYSTEM (GPS) POINTS: GARD AND 9613. GARD IS A BRASS DISC, SET IN CONCRETE BY CLIFFORD CALDWELL, PLS 2492, FOR O. D. O. T. AS PART OF THE MEACHAM HILGARD PROJECT. IT IS ON FILE WITH O.D.O.T.'S GEOMETRONICS UNIT IN SALEM. POINT 9613, SET BY WALTER L. CASWELL, IS A 4" PIPE CASING MARKING AND IS THE TOWNSHIP CORNER COMMON TO SECTIONS 31, 36, 6, AND 1; TOWNSHIP 2 AND 3 SOUTH, RANGE 37 AND 38 EAST, W.M. POINT 9613 IS ON FILE IN UNION COUNTY WITH THE MONUMENTATION RECORDS. THESE POINTS WERE CONVERTED TO LOCAL DATUM PLANE COORDINATES AND A CONTROL NETWORK, USING A CONVERSION FACTOR OF 0.999856788, WAS THEN RAN BETWEEN THEM. THIS NETWORK WAS ADJUSTED BY LEAST SQUARES AND THE RECOVERED MONUMENTS WERE DOUBLE TIED FROM THE ADJUSTED NETWORK



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

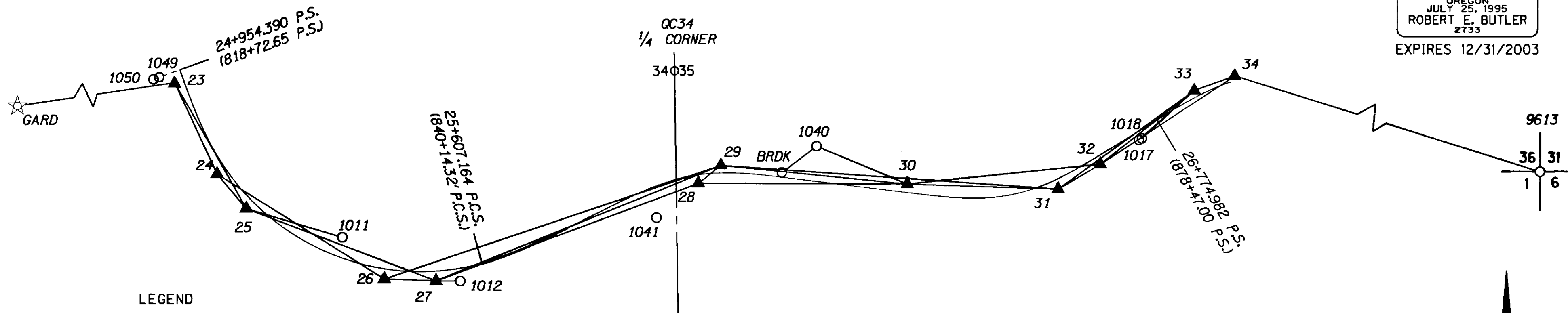
UNION COUNTY
3/15/02
Date Filed 3/27/02
By: *[Signature]*
File No. 007-2002

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
OF A PORTION OF THE
RELOCATED OLD OREGON TRAIL HIGHWAY
UNION COUNTY, OREGON
DEC 3, 2001 TO JAN. 10, 2002 FOR O.D.O.T. REGION 5
3012 ISLAND AVE., LA GRANDE, OREGON 97850
NARRATIVE AND SHEET LAYOUT SHEET 1 OF 6

SURVEY NUMBER 007-2002

SE 1/4 SEC. 34; SW 1/4 SEC. 35; T 2 S, R 37 E; W. M.

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Robert E. Butler
OREGON
JULY 25, 1995
ROBERT E. BUTLER
2733
EXPIRES 12/31/2003



LEGEND

- ▲ SET NETWORK POINT
- ☆ FOUND GPS POINT
- FOUND MONUMENT AS NOTED
- - - SECTION LINE
- EXISTING R/W CENTERLINE
- LINES OF OBSERVATION

GARD
FND BR. DISC IN CONC.
MKD. "GARD", ON FILE
ODOT GEOMETRONICS
NAD 83(91) ORE. NORTH ZONE:
N 188760.119m
E 2678015.535m
LOCAL DATUM PLANE:
N 188787.156m
E 2678399.114m

☆ BASIS OF BEARING S89°43'43"E 8754.156m
COMPUTED FROM LOCAL DATUM PLANE COORDINATES

TO CONVERT FROM LOCAL DATUM PLANE COORDINATES
TO OREGON STATE PLANE COORDINATES, NORTH ZONE,
MULTIPLY BY A CONVERGENCE FACTOR OF 0.999856788

9613
FND. 4" DIA. PIPE CASING
CORNER COMMON TO
T2S AND T3S
R37E AND R38E; W.M.
NAD 83(91) ORE. NORTH ZONE:
N 619155.744 INT. FT.
E 8814856.754 INT. FT.
LOCAL DATUM PLANE:
N 188745.702m
E 2687153.172m

NO SCALE
TO CONVERT METERS TO S. I. FEET DIVIDE BY 0.3048



UNION COUNTY
SUTTER
Date Received 3/15/02
Date Filed 3/27/02
By *[Signature]*
No. 007-2002

MONUMENT COORDINATES, LOCAL DATUM PLANE

PT. ID.	EASTING	NORTHING	DESCRIPTION
GARD	2678399.114	188787.156	FND. 76mm (3") BRASS DISC IN CONCRETE COLLAR MKD. "GARD", ON FILE WITH ODOT GEOMETRONICS IN SALEM
23	2683011.352	189478.398	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 23"
24	2683081.227	189330.248	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 24"
25	2683128.909	189274.413	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 25"
26	2683354.608	189160.835	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 26"
27	2683439.234	189157.863	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 27"
28	2683867.800	189316.903	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 28"
29	2683904.409	189345.800	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 29"
30	2684209.753	189316.185	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 30"
31	2684456.766	189308.208	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 31"
32	2684525.861	189348.382	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 32"
33	2684679.436	189468.290	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 33"
34	2684745.483	189491.551	SET 16mm x 762mm IRON ROD W/ODOT ALUM CAP MARKED "NET 34"
1011	2683285.978	189228.177	FND. 76mm (3") BR. DISC IN CONC. COLLAR MKD. "832+00.00 POC, 117.08", UNRECORDED, ACCEPTED AS REFERENCE
1012	2683478.769	189157.800	FND. 76mm (3") BR. DISC IN CONCRETE COLLAR MKD. "POST", UNRECORDED, ACCEPTED AS REFERENCE
1017	2684593.544	189390.551	FND. 76mm (3") BR. DISC IN CONC. COLLAR MARKED "877+27.78, 40.49"
1018	2684589.514	189387.345	FOUND 16mm (5/8") IRON ROD, UNRECORDED, NOT USED AS PART OF THIS SURVEY
1040	2684060.851	189377.223	FOUND RAILROAD SPIKE, UNRECORDED, NOT USED AS PART OF THIS SURVEY
1041	2683799.460	189261.348	FND. 25mm (1") IRON ROD, EXTENDING 0.5m OUT OF GROUND, UNRECORDED, NOT USED AS PART OF THIS SURVEY
1049	2682986.379	189487.422	FND. 76mm (3") BR. DISC IN CONC. COLLAR MKD. "818+72.65 PS, 40.49", UNRECORDED, ACCEPTED AS REFERENCE
1050	2682976.931	189484.010	FOUND 16mm (5/8") IRON ROD W/4" x 4" WOOD POST, UNRECORDED, ACCEPTED AS REFERENCE
BRDK	2684004.186	189334.440	FND. 76mm (3") BR. DISC MKD. "41.26", B-RPPT 856+57.28, C-RPPI, UNRECORDED, ACCEPTED AS REFERENCE
QC34	2683828.410	189499.690	FND. 50mm (2") IRON PIPE FOR 1/4 S34 AND S35, CS 004-2000, ODOT DRG. 1F-1-760, 2B-16-6, 8B-6-11
9613	2687153.172	188745.702	FND. 100mm (4") PIPE CASING, W/4 BRG. TREES, COR. OF S36, S31, S1, S6, FILED WITH UNION COUNTY MONUMENTATION RECORDS

METRIC SURVEY

SCALE 1:5000
1mm = 5m

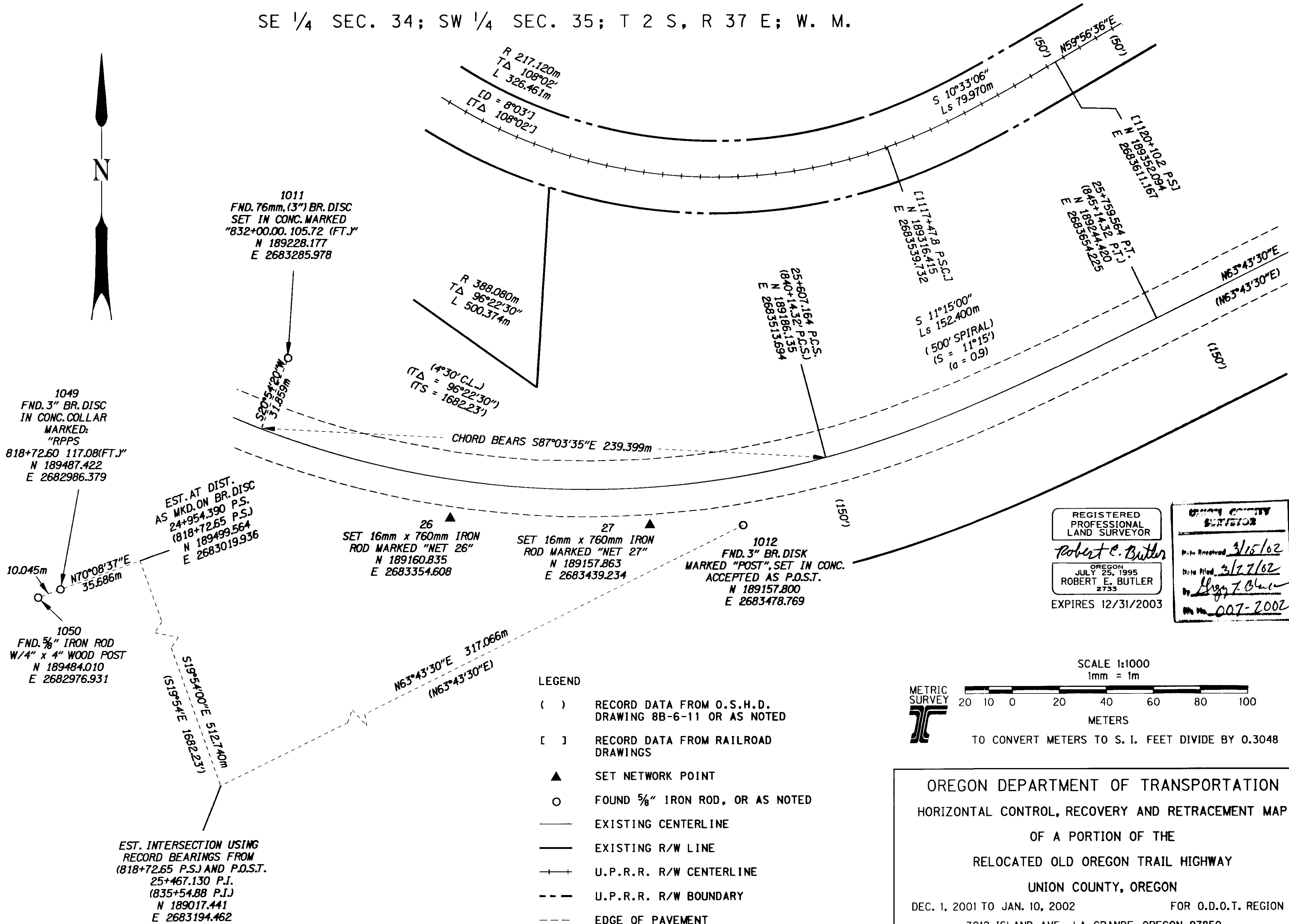
METERS

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

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
OF A PORTION OF THE
RELOCATED OLD OREGON TRAIL HIGHWAY
UNION COUNTY, OREGON
DEC. 1, 2001 TO JAN. 10, 2002 FOR O.D.O.T. REGION 5
3012 ISLAND AVE., LA GRANDE, OREGON 97850
CONTROL NETWORK AND BASIS OF BEARING SHEET 2 OF 6

SURVEY NUMBER 007-2002

SE 1/4 SEC. 34; SW 1/4 SEC. 35; T 2 S, R 37 E; W. M.



1049
FND. 3" BR. DISC
IN CONC. COLLAR
MARKED:
"RPPS"
818+72.60 117.08(FT.)
N 189487.422
E 2682986.379

1011
FND. 76mm, (3") BR. DISC
SET IN CONC. MARKED
"832+00.00, 105.72 (FT.)"
N 189228.177
E 2683285.978

EST. AT DIST.
AS MKD. ON BR. DISC
24+954.390 P.S.
(818+72.65 P.S.)
N 189499.564
E 2683019.936

1050
FND. 5/8" IRON ROD
W/4" x 4" WOOD POST
N 189484.010
E 2682976.931

26
SET 16mm x 760mm IRON
ROD MARKED "NET 26"
N 189160.835
E 2683354.608

27
SET 16mm x 760mm IRON
ROD MARKED "NET 27"
N 189157.863
E 2683439.234

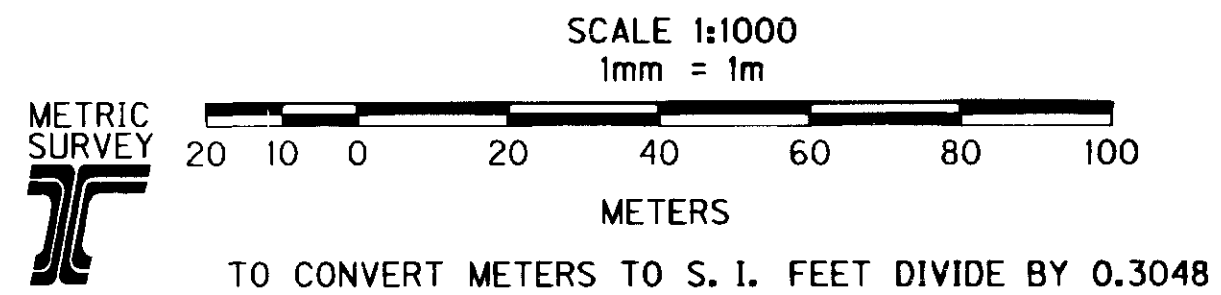
1012
FND. 3" BR. DISK
MARKED "POST", SET IN CONC.
ACCEPTED AS P.O.S.T.
N 189157.800
E 2683478.769

EST. INTERSECTION USING
RECORD BEARINGS FROM
(818+72.65 P.S.) AND P.O.S.T.
25+467.130 P.I.
(835+54.88 P.I.)
N 189017.441
E 2683194.462

- LEGEND
- () RECORD DATA FROM O.S.H.D. DRAWING 8B-6-11 OR AS NOTED
 - [] RECORD DATA FROM RAILROAD DRAWINGS
 - ▲ SET NETWORK POINT
 - FOUND 5/8" IRON ROD, OR AS NOTED
 - EXISTING CENTERLINE
 - EXISTING R/W LINE
 - + + U.P.R.R. R/W CENTERLINE
 - - - U.P.R.R. R/W BOUNDARY
 - - - EDGE OF PAVEMENT

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Robert E. Butler
OREGON
JULY 25, 1995
ROBERT E. BUTLER
2753
EXPIRES 12/31/2003

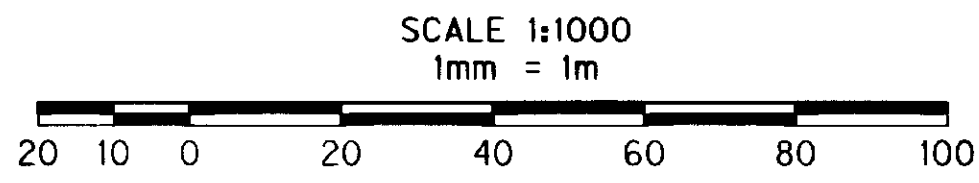
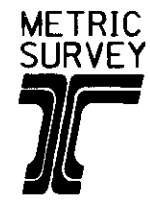
UNION COUNTY
SURVEYOR
Date Received 3/15/02
Date Filed 3/27/02
By Ally Z. Blair
No. 007-2002



OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
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RELOCATED OLD OREGON TRAIL HIGHWAY
UNION COUNTY, OREGON
DEC. 1, 2001 TO JAN. 10, 2002 FOR O.D.O.T. REGION 5
3012 ISLAND AVE., LA GRANDE, OREGON 97850
RIGHT-OF-WAY SHEET 3 OF 6

SURVEY NUMBER 007-2002

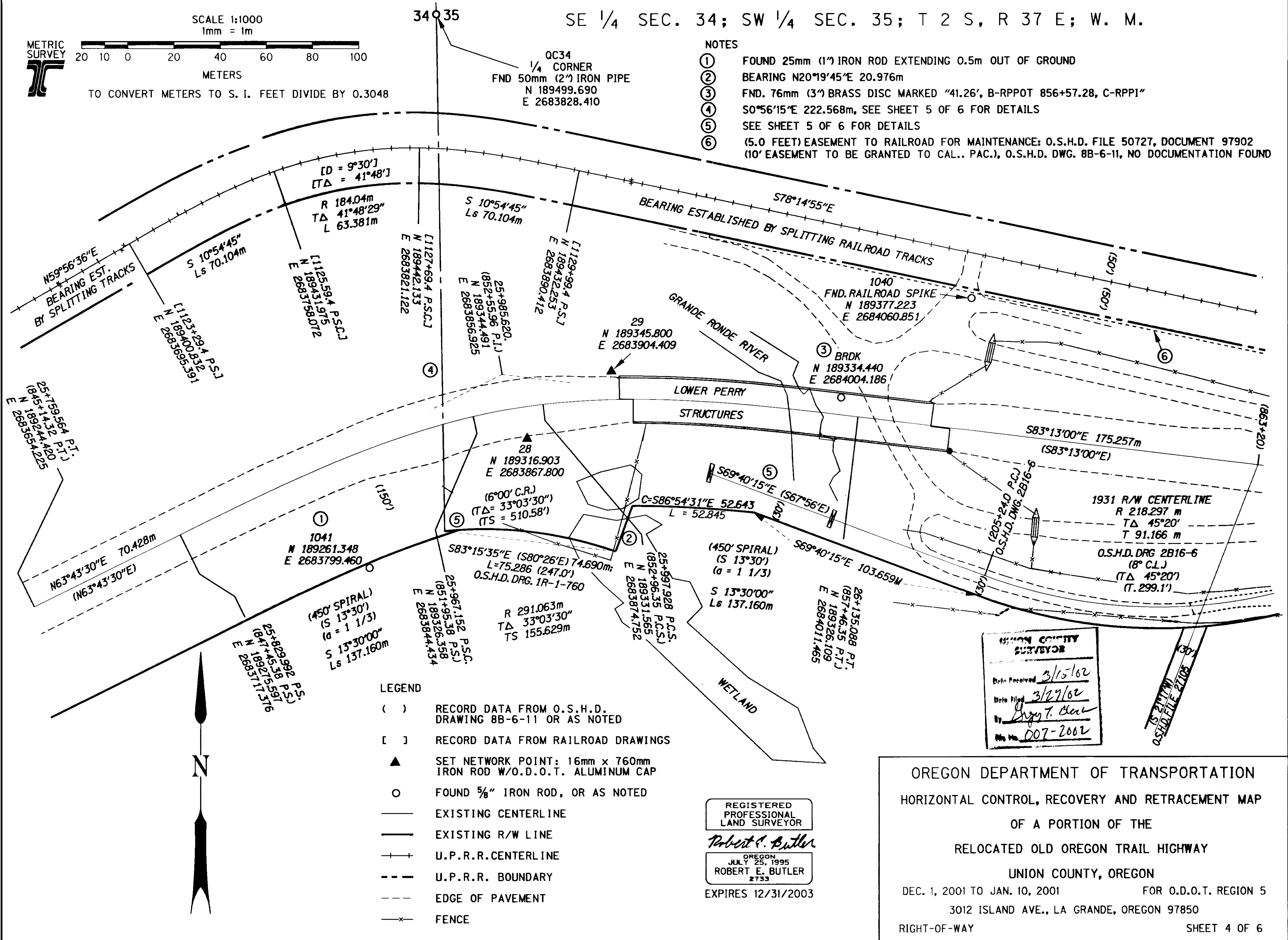
SE 1/4 SEC. 34; SW 1/4 SEC. 35; T 2 S, R 37 E; W. M.



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

NOTES

- ① FOUND 25mm (1") IRON ROD EXTENDING 0.5m OUT OF GROUND
- ② BEARING N20°19'45"E 20.976m
- ③ FND. 76mm (3") BRASS DISC MARKED "41.26', B-RPPOT 856+57.28, C-RPPI"
- ④ S0°56'15"E 222.568m, SEE SHEET 5 OF 6 FOR DETAILS
- ⑤ SEE SHEET 5 OF 6 FOR DETAILS
- ⑥ (5.0 FEET) EASEMENT TO RAILROAD FOR MAINTENANCE: O.S.H.D. FILE 50727, DOCUMENT 97902 (10' EASEMENT TO BE GRANTED TO CAL.. PAC.), O.S.H.D. DWG. 8B-6-11, NO DOCUMENTATION FOUND



LEGEND

- () RECORD DATA FROM O.S.H.D. DRAWING 8B-6-11 OR AS NOTED
- [] RECORD DATA FROM RAILROAD DRAWINGS
- ▲ SET NETWORK POINT: 16mm x 760mm IRON ROD W/O.D.O.T. ALUMINUM CAP
- FOUND 5/8" IRON ROD, OR AS NOTED
- EXISTING CENTERLINE
- EXISTING R/W LINE
- U.P.R.R. CENTERLINE
- - - U.P.R.R. BOUNDARY
- · - · EDGE OF PAVEMENT
- x - FENCE

REGISTERED PROFESSIONAL LAND SURVEYOR

Robert E. Butler

OREGON JULY 25, 1995 ROBERT E. BUTLER 2733

EXPIRES 12/31/2003

UNION COUNTY SURVEYOR

Date Received 3/15/02

Date Filed 3/27/02

By Greg T. Clark

File No. 007-2002

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP
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RELOCATED OLD OREGON TRAIL HIGHWAY
UNION COUNTY, OREGON
DEC. 1, 2001 TO JAN. 10, 2001 FOR O.D.O.T. REGION 5
3012 ISLAND AVE., LA GRANDE, OREGON 97850
RIGHT-OF-WAY SHEET 4 OF 6

SE 1/4 SEC. 34; SW 1/4 SEC. 35; T 2 S, R 37 E; W. M.

34 35

QC34
1/4 CORNER
FND 50mm (2") IRON PIPE
N 189499.690
E 2683828.410

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Robert E. Butler

OREGON
JULY 25, 1995
ROBERT E. BUTLER
#733

EXPIRES 12/31/2003



USED RECORD DISTANCE FROM 1/4 S34 & 35 FROM O.S.H.D. DWG. 1R-1-760

154.676 m (514.3') O.S.H.D. DRG. 2B16-6

58.887m (193.2')
O.S.H.D. DWG. 2B16-6
REVISED LINE

(197+50.0 P.T.)
O.S.H.D. DWG. 2B16-6
REVISED LINE

(199+56.0 = EQUATION
201+07.0 =)
O.S.H.D. DWG. 2B16-6
REVISED LINE

(203+58.5 P.O.T. = EQUATION
203+50.0 P.O.T. =)
D&R O.S.H.D. 2B16-6

(205+24.0 P.C.)
O.S.H.D. DWG. 2B16-6

EQUATION P.O.T.)
(200+23.5 P.T.)
(210+90.7 P.T.)
O.S.H.D. DWG. 2B16-6

1931 ALIGNMENT STATION
6+112.733, 9.144m (200+54.90, 30') RT.
INTERSECTS
OLD OREGON TRAIL ALIGNMENT
26+373.340, 39.624 (130') RT.
N 189258.662
E 2684243.730

(8" C.R.)
O.S.H.D. DRG. 1R-1-760

62.789m, 206.0'

S 69°40'15"E (S67°56'E)
BEARING ESTABLISHED
FOR O.S.H.D. DRG. 1R-1-760,
AND O.S.H.D. DRG. 2B16-6
BY SPLIT OF REMAINING
BRIDGE FOOTINGS
FROM OLD HIGHWAY

R 218.297m
TΔ 45°20'
T 91.166m

O.S.H.D. DWG. 2B16-6
(8" C.L.)
(Δ 45°20')
(T. 299.1')

S83°15'35"E (S80°26'E) 174.690m
L=75.286m (247.0')
R=172.577m (566.3')
O.S.H.D. DRG. 1R-1-760

N20°19'45"E
20.976m

S69°40'15"E 103.866m

53.035m, 174.0'

L.C. = N87°39'45"E 168.249m

N6°59'45"E

SCALE 1:1000
1mm = 1m



20 10 0 20 40 60 80 100
METERS

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

LEGEND

- () RECORD DATA FROM O.S.H.D. DRAWING AS NOTED
- FOUND MONUMENT AS NOTED
- EXISTING 1931 R/W CENTERLINE OR AS NOTED
- EXISTING R/W LINE
- - - SECTION LINE

NOTES

- ① BEARING N20°19'45"E 20.976m
- ② CH. = S86°54'31"E 52.643m; L = 52.845m
- ③ OLD OREGON TRAIL ALIGNMENT INTERCEPTS
ARC AT STATION 25+948.280, 45.72m (150') RT.
N 189277.708
E 2683838.956

UNION COUNTY
SURVEYOR
Date Received 3/15/02
Date Filed 3/27/02
By [Signature]
No. 007-2002

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT MAP

OF A PORTION OF THE
RELOCATED OLD OREGON TRAIL HIGHWAY

UNION COUNTY, OREGON

DEC. 1, 2001 TO JAN. 10, 2002

FOR O.D.O.T. REGION 5

3012 ISLAND AVE., LA GRANDE, OREGON 97850

1931 ALIGNMENT

SHEET 5 OF 6

SURVEY NUMBER 007-2002

