

Narrative of Survey

This survey was performed at the request of the Umatilla County Board of Commissioners to monument a portion of Rieth Road (County Road #1300) as it existed prior to 1998 (before reconstruction) for legalization purposes and to monument that area affected by the reconstruction for right-of-way acquisition purposes.

Haddock performed a 1998 survey (CS#98-10-B) for Blue Mountain Lumber Products in which he surveyed the edges of the existing road (before reconstruction) and provided the County with curve and line data which matches that shown on his map. Wells has performed two recent land partition surveys along this section of road (Partition Plat #1998-39, CS#98-216-B, for John Brogotti, and Partition Plat #1996-05, CS#96-33-B, for Balfour Consulting, Inc.). In his 1996 plat, Wells tied in the existing pavement on the road in front of the property he was surveying (now Pendleton Sanitary Service, Inc.) in order to establish the southeasterly line of the property, as we could find no road records showing the legal location of the road at that time. Since then, a spiral alignment has been found that was established via a deed from O. Jay Brogotti to Umatilla County, dated July 10, 1974, that runs southwesterly along most of the property frontage and that is the alignment shown on this map. Using it instead of Wells' alignment actually makes very little difference in square footage of the property, and it appears that Umatilla County will need to acquire some right-of-way from Pendleton Sanitary Service anyway. In any case, Wells states on his map that the northerly right-of-way line of the road as he shows it should be considered approximate. All of the pins he set along the road in his 1996 survey have been destroyed in the construction of the Transfer Station and the reconstruction of the county road. County road reconstruction has also destroyed many of the monuments along the road set by Haddock, CS#98-10-B. Wells used the spiral alignment shown on this map for his 1998 Partition for Brogotti and his monuments are shown.

A closed loop traverse was run from the brass cap at the Northeast Corner of Section 7 through the brass caps at the Center of Section 7 and the centerline intersection of Morrow and Main Streets in Rieth, and back. It was determined that a better fit to found monuments set by Wells and Haddock would be obtained by using a point to point traverse from the Northeast Corner of Section 7 to the Morrow Street/Main Street monument and adjusting to the City of Pendleton Grid coordinates provided by Haddock (and verified by calculations from his map). The only monument tied that did not fit reasonably well was the 5/8-inch rebar set by Wells at the East edge of Rieth (Station #67) in his GPS survey for photo control for the City of Pendleton and Umatilla County (CS#96-55-G). The northings are identical, but my easting is 0.49 foot greater than his. His values are based on converting from State Plane Coordinates as he explains in his narrative, and he states that differences between converted coordinates and published City values of 0.2 to 0.3 can be expected in the Rieth area, which might explain some of the discrepancy.

The bearing base used for this survey is S49°30'05"W from the brass cap at the Northeast Corner of Section 7 to the brass cap at the Morrow Street/Main Street intersection, from City of Pendleton Grid coordinates calculated from CS#98-10-B by Haddock. His bearing base was from City of Pendleton Grid coordinates published for the monuments at the Northeast and Southeast Corners of Section 7. The coordinate base for this survey is also City of Pendleton Grid.

Some centerline points were monumented with P-K nails only and some were left out entirely, due to the fact that road construction and chip sealing is not yet completed. It is anticipated that the right-of-way centerline will be monumented at a future date when construction is complete and an additional map will be filed. It is important to note that the legalization proceeding will establish the right-of-way 30 feet on each side of the centerline shown. Before using this map for right-of-way location, surveyors and others should check to make sure the deeds for the remaining widths have been recorded.

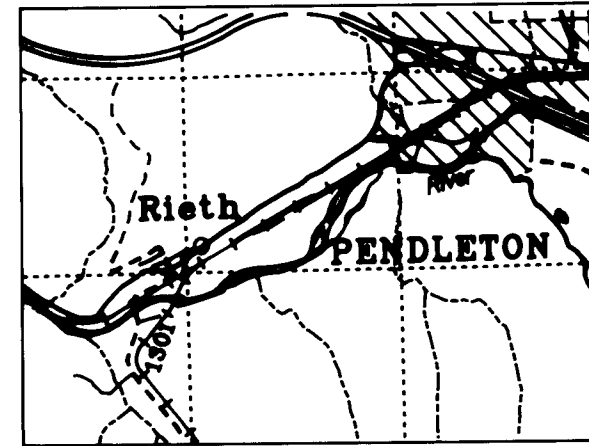
I set some iron pins and caps some time ago intending to use them as traverse points for this survey (which I did). The caps on these pins are stamped differently from the caps on the pins I set for the right-of-way monuments (see legend).

This survey was performed with a 2-person crew using a Wild T-16 one-minute theodolite and a Wild DI-5 EDM.

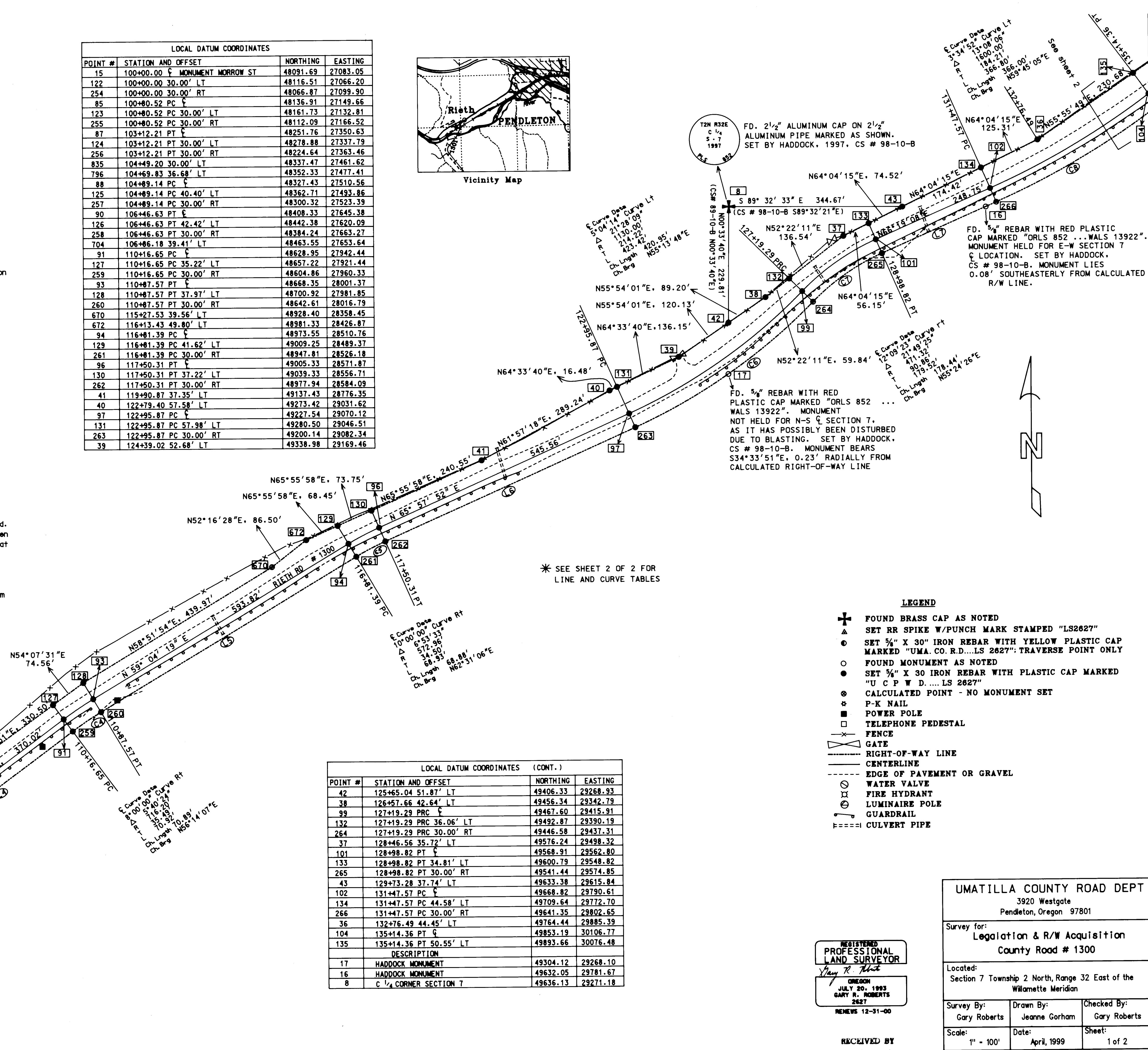
FD. 5/8" REBAR WITH YELLOW PLASTIC CAP MARKED "OR PLS 1106, WA PLS 17372" SET BY WELLS (STATION # 67), GPS SURVEY, CS # 96-55-G, 1996
HIS PUBLISHED COORDINATES ARE AS FOLLOWS:
NAD '83-'91 STATE PLANE COORDINATES=
N 732268.972, E 8619708.269
CITY OF PENDLETON COORDINATES=
N 48337.137, E 27391.697
THE CITY COORDINATES I OBTAINED IN THIS SURVEY USING THE TRAVERSE AND ADJUSTMENT METHODS EXPLAINED IN THE NARRATIVE ARE N48.337.139, E 27.392.187.

FD. 2" B.C. MARKED AS SHOWN, SET BY THOMPSON IN 1969, CS # G-14-AX
E. Curve Data
C 1/4
S 7
1997
100+00.00
130.00
214.22
423.42
Ch. Length
N55°13'48"E

LOCAL DATUM COORDINATES				
POINT #	STATION AND OFFSET	NORTHING	EASTING	
15	100+00.00 MONUMENT MORROW ST	48091.69	27083.05	
122	100+00.00 30.00' RT	48116.51	27066.20	
254	100+00.00 30.00' RT	48066.87	27099.90	
85	100+80.52 PC	48136.91	27149.66	
123	100+80.52 PC 30.00' LT	48161.73	27132.81	
255	100+80.52 PC 30.00' RT	48112.09	27166.52	
87	103+12.21 PT	48251.76	27350.63	
124	103+12.21 PT 30.00' LT	48278.88	27337.79	
256	103+12.21 PT 30.00' RT	48224.64	27363.46	
835	104+49.20 30.00' LT	48337.47	27461.62	
796	104+49.20 30.00' RT	48352.33	27477.41	
88	104+89.14 PC	48327.43	27510.56	
125	104+89.14 PC 40.40' LT	48362.71	27493.86	
257	104+89.14 PC 30.00' RT	48300.32	27523.39	
90	106+46.63 PT	48408.33	27645.38	
126	106+46.63 PT 42.42' LT	48442.38	27620.09	
258	106+46.63 PT 30.00' RT	48384.24	27663.27	
704	106+86.18 39.41' LT	48463.55	27653.64	
91	110+16.65 PC	48628.95	27942.44	
127	110+16.65 PC 35.22' LT	48657.22	27921.44	
259	110+16.65 PC 30.00' RT	48604.86	27960.33	
93	110+87.57 PT	48668.35	28001.37	
128	110+87.57 PT 37.97' LT	48700.92	27981.85	
260	110+87.57 PT 30.00' RT	48642.61	28016.79	
670	115+27.53 39.56' LT	48928.40	28358.45	
672	116+13.43 49.80' LT	48981.33	28426.87	
94	116+81.39 PC	48973.55	28510.76	
129	116+81.39 PC 41.62' LT	49009.25	28489.37	
261	116+81.39 PC 30.00' RT	48947.81	28526.18	
96	117+50.31 PT	49005.33	28571.87	
130	117+50.31 PT 37.22' LT	49039.33	28556.71	
262	117+50.31 PT 30.00' RT	48977.94	28584.09	
41	119+90.87 37.35' LT	49137.43	28776.35	
40	122+79.40 57.58' LT	49273.42	29031.62	
97	122+95.87 PC	49227.54	29070.12	
131	122+95.87 PC 57.98' LT	49280.50	29046.51	
263	122+95.87 PC 30.00' RT	49200.14	29082.34	
39	124+39.02 52.68' LT	49338.98	29169.46	



Vicinity Map



LOCAL DATUM COORDINATES (CONT.)				
POINT #	STATION AND OFFSET	NORTHING	EASTING	
42	125+65.04 51.87' LT	49406.33	29268.93	
38	126+57.66 42.64' LT	49456.34	29342.79	
99	127+19.29 PRC	49467.60	29415.91	
132	127+19.29 PRC 36.06' LT	49492.87	29390.19	
264	127+19.29 PRC 30.00' RT	49446.58	29437.31	
37	128+46.56 35.72' LT	49576.24	29498.32	
101	128+98.82 PT	49568.91	29562.80	
133	128+98.82 PT 34.81' LT	49600.79	29548.82	
265	128+98.82 PT 30.00' RT	49541.44	29574.85	
43	129+73.28 37.74' LT	49633.38	29615.84	
102	131+47.57 PC	49668.82	29790.61	
134	131+47.57 PC 44.58' LT	49709.64	29772.70	
266	131+47.57 PC 30.00' RT	49641.35	29802.65	
36	132+76.49 44.45' LT	49764.44	29885.39	
104	135+14.36 PT	49853.19	30106.77	
135	135+14.36 PT 50.55' LT	49893.66	30076.48	
DESCRIPTION				
17	HADDOCK MONUMENT	49304.12	29268.10	
16	HADDOCK MONUMENT	49632.05	29781.67	
8	C 1/4 CORNER SECTION 7	49636.13	29271.18	

- LEGEND**
- ⊕ FOUND BRASS CAP AS NOTED
 - ⊙ SET RR SPIKE W/PUNCH MARK STAMPED "LS2627"
 - ⊙ SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UMA. CO. R.D. LS 2627"; TRAVERSE POINT ONLY
 - ⊙ FOUND MONUMENT AS NOTED
 - ⊙ SET 5/8" X 30" IRON REBAR WITH PLASTIC CAP MARKED "U C P W D. LS 2627"
 - ⊙ CALCULATED POINT - NO MONUMENT SET
 - ⊙ P-K NAIL
 - ⊙ POWER POLE
 - ⊙ TELEPHONE PEDESTAL
 - ⊙ FENCE
 - ⊙ GATE
 - ⊙ RIGHT-OF-WAY LINE
 - ⊙ CENTERLINE
 - ⊙ EDGE OF PAVEMENT OR GRAVEL
 - ⊙ WATER VALVE
 - ⊙ FIRE HYDRANT
 - ⊙ LUMINAIRE POLE
 - ⊙ GUARDRAIL
 - ⊙ CULVERT PIPE

UMATILLA COUNTY ROAD DEPT
3920 Westgate
Pendleton, Oregon 97801

Survey for:
Legalization & R/W Acquisition
County Road # 1300

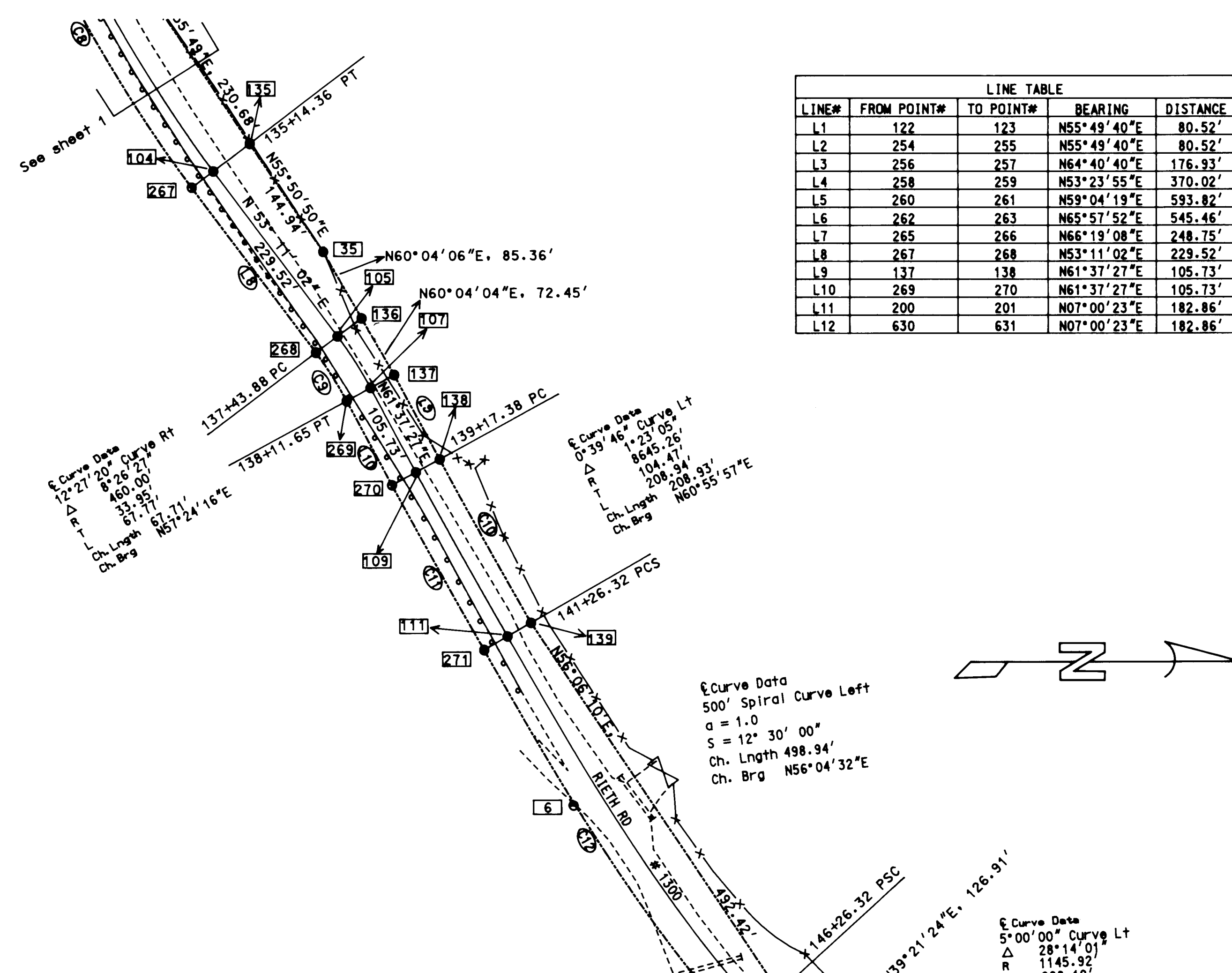
Located:
Section 7 Township 2 North, Range 32 East of the
Willamette Meridian

Survey By: Gary Roberts
Drawn By: Jeanne Gorham
Checked By: Gary Roberts

Scale: 1" = 100'
Date: April, 1999
Sheet: 1 of 2

REGISTERED PROFESSIONAL LAND SURVEYOR
Gary R. Roberts
OREGON JULY 20, 1993
GARY R. ROBERTS 2627
NEWS 12-31-00

RECEIVED BY
Umatilla County Surveyor
Date: 6-99
Rec'd By: K.K.
No: 99-92-C



LINE TABLE				
LINE#	FROM POINT#	TO POINT#	BEARING	DISTANCE
L1	122	123	N55°49'40"E	80.52'
L2	254	255	N55°49'40"E	80.52'
L3	256	257	N64°40'40"E	176.93'
L4	258	259	N53°23'55"E	370.02'
L5	260	261	N59°04'19"E	593.82'
L6	262	263	N65°57'52"E	545.46'
L7	265	266	N66°19'08"E	248.75'
L8	267	268	N53°11'02"E	229.52'
L9	137	138	N61°37'27"E	105.73'
L10	269	270	N61°37'27"E	105.73'
L11	200	201	N07°00'23"E	182.86'
L12	630	631	N07°00'23"E	182.86'

Right of Way Centerline Description

Beginning at a brass cap marking the intersection of the centerlines of Main Street (Rieth Road) and Morrow Street, as shown on the Plat of the Town of Doris, which bears S54°47'04"W, 2678.29 feet from a brass cap marking the center of Section 7, Township 2 North, Range 32 East of the Willamette Meridian, said monument being assigned Engineer's Station 100+00.00 P.O.T.; thence N55°49'40"E, 80.52 feet; thence 231.46 feet along a 1500.00-foot radius curve right (the chord bears N60°15'10"E, 231.46 feet); thence N64°40'40"E, 176.93 feet; thence 157.49 feet along an 800.00-foot radius curve left (the chord bears N59°02'18"E, 157.23 feet); thence N53°23'55"E, 370.02 feet; thence 70.92 feet along a 716.20-foot radius curve right (the chord bears N56°14'07"E, 70.89 feet); thence N59°04'19"E, 593.82 feet; thence 68.93 feet along a 572.96-foot radius curve right (the chord bears N62°31'06"E, 68.88 feet); thence N65°57'52"E, 545.56 feet; thence 423.42 feet along an 1130.00-foot radius curve left (the chord bears N55°13'48"E, 420.95 feet); thence 179.52 feet along a 471.32-foot radius curve right (the chord bears N55°24'26"E, 178.44 feet); thence N66°19'08"E, 248.75 feet; thence 366.80 feet along a 1600.00-foot radius curve left (the chord bears N59°45'05"E, 366.00 feet); thence N53°11'02"E, 229.52 feet; thence 67.77 feet along a 460.00-foot radius curve right (the chord bears N57°24'16"E, 67.71 feet); thence N61°37'29"E, 105.73 feet; thence 208.94 feet along an 8645.26-foot radius curve left (the chord bears N60°55'57"E, 208.93 feet); thence 500.00 feet along a spiral curve left (a=1.0, S=12°30'00", chord bears N56°04'30"E, 498.94 feet); thence 564.67 feet along an 1145.92-foot radius curve left (the chord bears N33°37'24"E, 558.98 feet); thence 500.00 feet along a spiral curve left (a=1.0, S=12°30'00", chord bears N11°10'17"E, 498.94 feet); thence N07°00'23"E, 182.86 feet; thence 400.00 feet along a spiral curve right (a=2.0, S=16°00'00", chord bears N12°20'10"E, 398.62 feet); thence 400.00 feet along a 716.20-foot radius curve right (the chord bears N39°00'23"E, 394.82 feet); thence 41.76 feet along a spiral segment right (a=2.0, S=3°09'54", chord bears N56°37'07"E, 41.75 feet) to a point on the Umatilla County/Oregon Department of Transportation jurisdiction boundary line. Said point bears N67°02'32"W, 139.12 feet from a brass cap marking the Northeast Corner of Section 7, Township 2 North, Range 32 East of the Willamette Meridian, is assigned Engineer's Station 167+15.61 P.O.S., and is the terminus of this description.

LOCAL DATUM COORDINATES			
POINT #	STATION AND OFFSET	NORTHING	EASTING
104	135+14.36 PT	49853.19	30106.77
135	135+14.36 PT 50.55' LT	49893.66	30076.48
267	135+14.36 PT 30.00' RT	49829.17	30124.75
35	136+59.14 43.61' LT	49974.86	30196.54
105	137+43.88 PC	49990.73	30290.51
136	137+43.88 PC 33.38' LT	50017.45	30270.51
268	137+43.88 PC 30.00' RT	49966.71	30308.49
107	138+11.65 PT	50027.20	30347.56
137	138+11.65 PT 30.00' LT	50053.60	30333.30
269	138+11.65 PT 30.00' RT	50000.81	30361.81
109	139+17.38 PC	50077.45	30440.58
138	139+17.38 PC 30.00' LT	50103.85	30426.33
270	139+17.38 PC 30.00' RT	50051.06	30454.84
111	141+26.32 PCS	50178.96	30623.20
139	141+26.32 PCS 30.00' LT	50205.00	30608.31
271	141+26.32 PCS 30.00' RT	50152.92	30638.09
112	146+26.32 PSC	50457.42	31037.21
164	146+26.32 PSC 30.00' LT	50479.63	31017.03
296	146+26.32 PSC 30.00' RT	50435.22	31057.38
30	147+56.85 41.34' LT	50577.75	31097.51
33	147+81.14 30.00' RT	50549.67	31167.40
32	148+19.33 45.26' RT	50570.69	31204.10
838	148+43.68 106.81' RT	50553.84	31268.74
836	148+71.12 POC	50640.08	31199.49
31	148+71.12 POC 169.12' RT	50541.87	31337.18
837	148+98.55 107.43' RT	50602.33	31304.09
27	149+48.72 37.18' RT	50685.24	31274.05
18	151+03.80 37.73' RT	50826.62	31349.02
114	151+90.99 PCS	50922.88	31346.73
165	151+90.99 PCS 30.00' LT	50932.90	31318.45
297	151+90.99 PCS 30.00' RT	50912.87	31375.01
115	156+90.99 PT	51412.37	31443.40
200	156+90.99 PT 30.00' LT	51416.03	31413.62
630	156+90.99 PT 30.00' RT	51408.71	31473.17
116	158+73.85 PS	51593.87	31465.70
201	158+73.85 PS 30.00' LT	51597.53	31435.93
631	158+73.85 PS 30.00' RT	51590.21	31495.48
117	162+73.85 PSC	51983.28	31550.87
226	162+73.85 PSC 30.00' LT	51995.00	31523.25
656	162+73.85 PSC 30.00' RT	51971.55	31578.48
119	166+73.85 PCS	52290.09	31799.37
227	166+73.85 PCS 30.00' LT	52314.66	31782.16
657	166+73.85 PCS 30.00' RT	52265.51	31816.57
26	167+15.61 POS	52313.06	31834.23
140	166+96.88 POS 30.00' LT	52328.09	31802.01
141	167+36.13 POS 30.00' RT	52297.78	31866.98
502	SECTION CORNER 6/5/7/8	52258.79	31962.34
1	OSHD R/W PIN	52257.20	31953.99
4	WELLS PIN	51348.70	31405.29
3	WELLS PIN	51408.24	31412.70
5	TRAVERSE POINT	50932.99	31320.30
6	TRAVERSE POINT	50251.86	30808.38

- LEGEND**
- ⊕ FOUND BRASS CAP AS NOTED
 - ▲ SET RR SPIKE W/PUNCH MARK STAMPED "LS2627"
 - SET 3/4" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UMA CO. R.D....LS 2627"; TRAVERSE POINT ONLY
 - FOUND MONUMENT AS NOTED
 - SET 3/4" X 30" IRON REBAR WITH PLASTIC CAP MARKED "U C P W D....LS 2627"
 - CALCULATED POINT - NO MONUMENT SET
 - ⊙ P-K NAIL
 - POWER POLE
 - TELEPHONE PEDESTAL
 - ⊗ FENCE
 - ⊘ GATE
 - RIGHT-OF-WAY LINE
 - CENTERLINE
 - EDGE OF PAVEMENT OR GRAVEL
 - WATER VALVE
 - FIRE HYDRANT
 - LUMINAIRE POLE
 - GUARDRAIL
 - ==== CULVERT PIPE

CURVE TABLE							
CURVE #	FROM POINT #	TO POINT #	R	Δ	L	CH. BRG.	CH. DIST.
C1	123	124	1530.00'	8°51'00"	236.33'	N60°15'10"E	236.09'
C2	255	256	1470.00'	8°51'00"	227.06'	N60°15'10"E	226.83'
C3	257	258	830.00'	11°16'45"	163.39'	N59°02'18"E	163.13'
C4	259	260	686.20'	5°40'24"	67.95'	N56°14'07"E	67.92'
C5	261	262	542.96'	6°53'33"	65.32'	N62°31'06"E	65.28'
C6	263	264	1160.00'	21°28'09"	434.66'	N55°13'48"E	432.12'
C7	264	265	441.32'	21°49'25"	168.10'	N55°24'26"E	167.08'
C8	266	267	1630.00'	13°08'06"	373.68'	N55°55'49"E	372.86'
C9	268	269	430.00'	8°26'27"	63.35'	N57°24'16"E	63.29'
C10	138	139	8615.26'	1°23'05"	208.21'	N60°55'57"E	208.21'
C11	270	271	8675.26'	1°23'05"	209.66'	N60°55'57"E	209.66'
C12	271	296			506.54'	N56°02'54"E	505.47'
C13	296	33	1175.92'	7°44'29"	158.88'	N43°52'10"E	158.76'
C14	165	200			493.46'	N11°08'38"E	492.41'
C15	297	630			506.54'	N11°11'52"E	505.46'
C16	201	226			408.38'	N12°23'26"E	406.95'
C17	631	656			391.62'	N12°16'45"E	390.27'
C18	226	227	746.20'	32°00'00"	416.76'	N39°00'23"E	411.36'
C19	656	657	686.20'	32°00'00"	383.25'	N39°00'23"E	378.28'
C20	227	140			23.97'	N55°55'07"E	23.97'
C21	657	141			59.87'	N57°22'29"E	59.85'

REGISTERED PROFESSIONAL LAND SURVEYOR
 Gary R. Roberts
 JULY 30, 1993
 GARY R. ROBERTS
 2627
 RENEWS 12-31-00

UMATILLA COUNTY ROAD DEPT
 3920 Westgate
 Pendleton, Oregon 97801

Survey for:
 Legislation & R/W Acquisition
 County Road # 1300

Located:
 Section 7 Township 2 North, Range 32 East of the
 Willamette Meridian

Survey By: Gary Roberts Drawn By: Jeanne Gorham Checked By: Gary Roberts

Scale: 1" = 100' Date: April, 1999 Sheet: 2 of 2

FOUND 3/4" REBARS WITH YELLOW PLASTIC CAPS MARKED "OR PLS 1106 ... WA PLS 17372" SET BY WELLS CS# 98-216-B, FOR BROGOITTL. MONUMENTS ARE ON CALCULATED R/W LINE.

Curve Data
 400' Spiral Curve Right
 a = 2.0
 S = 16° 00' 00"
 Ch. Length 398.62'
 Ch. Brg N12°20'14"E

Curve Data
 41.76' Spiral Curve Segment Right
 a = 2.0
 Ch. Length 41.75'
 Ch. Brg N56°37'06"E

Curve Data
 300' Spiral Curve Rt
 a = 2.0
 S = 12° 30' 00"
 Ch. Length 498.94'
 Ch. Brg N11°10'18"E

RECEIVED BY
 Umatilla County Surveyor
 Date: 6-79
 Rec'd By: [Signature]
 99-092-C