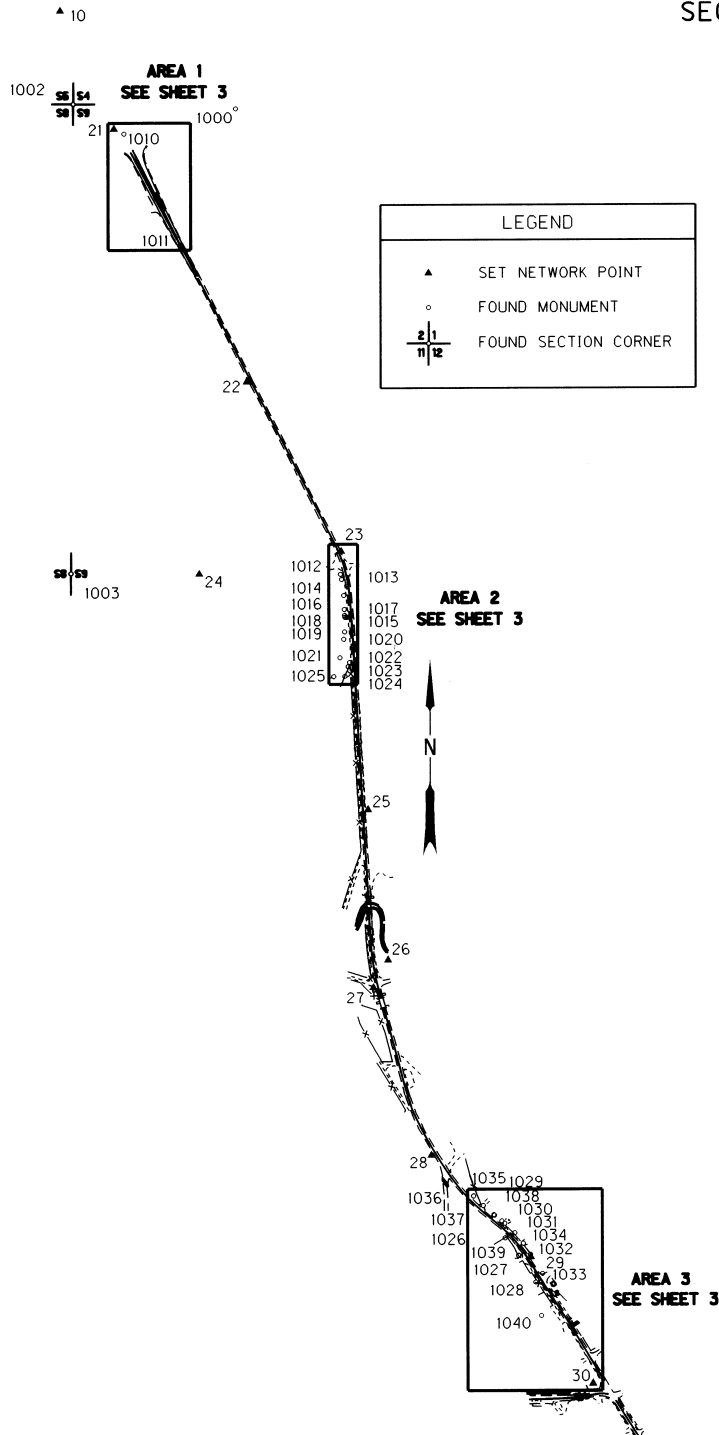


SEC. 9 & 16 T.3 N. R.29 E. W.M.

NARRATIVE



THE PURPOSE OF THIS SURVEY IS TO ESTABLISH NETWORK AND MAPPING FOR THE HIGHWAY RECONSTRUCTION AND BRIDGE REPLACEMENTS OVER THE FURNISH DITCH AND FEED CANAL.

THE SURVEY CREW CONSISTED OF, TONY BASHAW, JERRY MILLS, MIKE POTTS, BRENT REYNOLDS, LORI SATHER, LEN JEPPESON AND TOM HUEBNER. THE CREW STARTED THE FIELDWORK ON JANUARY 14, 2002 AND COMPLETED IT ON FEBRUARY 20, 2002. THIS SURVEY TOOK PLACE IN TOWNSHIP 3 NORTH; RANGE 29 EAST; SECTIONS 9 & 16.

NETWORK:

NETWORK POINT 1000 IS FOUND 2 1/2" BRASS DISK MARKED "STATE HIGHWAY REFERENCE 1370+91.45 268+36.1".

NETWORK POINT 1001 IS FOUND 2 1/2" BRASS DISK MARKED "STATE HIGHWAY REFERENCE 310+79.57".

NETWORK POINT 1002 IS FOUND 2 1/2" BRASS DISK MARKED: "T3N R29E S4 S5 S8 S9 PLS 933".

NETWORK POINT 1003 IS FOUND 2 1/2" BRASS DISK MARKED: "T3N R29E 1/4 S8 + S9 PLS 852".

NETWORK POINT 10 IS A FOUND 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "10".

NETWORK POINT 21 IS A SET PK NAIL. NETWORK POINT 22 IS A SET 5/8" X 30" PIN WITH ALUMINUM CAP STAMPED "N 22".

NETWORK POINT 23 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 23".

NETWORK POINT 24 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 24".

NETWORK POINT 25 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 25".

NETWORK POINT 26 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 26".

NETWORK POINT 27 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 27".

NETWORK POINT 28 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 28".

NETWORK POINT 29 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 29".

NETWORK POINT 30 IS A SET 5/8" X 30" IRON REBAR WITH ALUMINUM CAP STAMPED "N 30".

THE BASIS OF BEARING FOR THIS SURVEY IS THE SECTION LINE BETWEEN NETWORK POINTS 1003 AND 1002, N 00 22' 06" E FROM COUNTY SURVEY NO. 98-155-C. POINT 1002 WAS ASSIGNED COORDINATES N 20000 AND E 70000. THE COORDINATES FOR POINT 1003 WERE CALCULATED WITH THE RECORD BEARING AND MEASURED DISTANCE 810.541 METERS. THE RECORDED DISTANCE 2659.38 FT CONVERTED TO METRIC IS 810.579 METERS. HORIZONTAL LEAST SQUARES ADJUSTMENT WAS CALCULATED IN LISCAD TO ESTABLISH NETWORK COORDINATES. THE ANGULAR RESIDUALS AVERAGED 2 SECONDS, WITH THE GREATEST RESIDUAL BEING 14 SECONDS. THE DISTANCE RESIDUALS AVERAGED 1.7 MM, WITH THE GREATEST RESIDUAL BEING 10 MM. THE NETWORK MEETS ODOT STANDARDS.

THE VERTICAL DATA FOR THIS PROJECT WAS OBTAINED FROM BENCH MARK S-623 OSHD LINE 371 1977 ELEVATION CONVERTED TO METRIC 224.459 METERS.



**BASIS OF BEARING AND CONTROL NETWORK SCHEMATIC**  
NOT TO SCALE

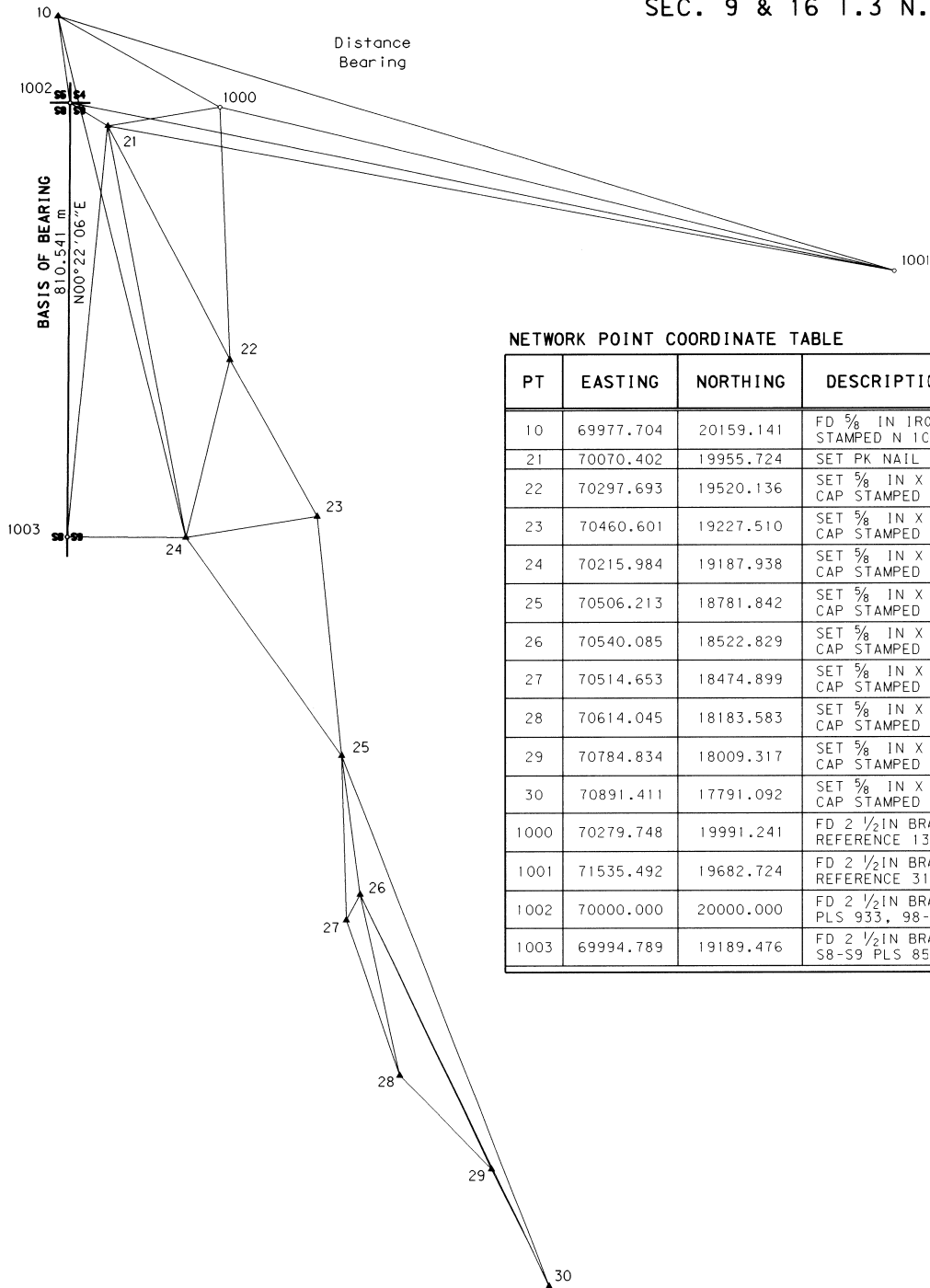
REGISTERED PROFESSIONAL LAND SURVEYOR  
*Ken W. Eddy*  
OREGON  
FEBRUARY 14, 1985  
KEN W. EDDY  
2129  
EXPIRES 12/31/03

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL AND RECOVERY MAP  
THIELSON ROAD - HWY 320 (JURISDICTIONAL EXCHANGE)  
ECHO HIGHWAY  
UMATILLA COUNTY

FOR ODOT REGION 5 RECEIVED BY 0788 KIK ROAD, HERMISTON, OR 97838  
MARCH 5, 2002 Umatilla County Surveyors Date 5-02 SHEET 1 OF 3  
Read By *AK*  
07-07-02

SEC. 9 & 16 T.3 N. R.29 E. W.M.



NETWORK POINT COORDINATE TABLE

PT	EASTING	NORTHING	DESCRIPTION & REFERENCE DOC
10	69977.704	20159.141	FD 5/8 IN IRON REBAR W/ALUM CAP STAMPED N 1C
21	70070.402	19955.724	SET PK NAIL
22	70297.693	19520.136	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 22
23	70460.601	19227.510	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 23
24	70215.984	19187.938	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 24
25	70506.213	18781.842	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 25
26	70540.085	18522.829	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 26
27	70514.653	18474.899	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 27
28	70614.045	18183.583	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 28
29	70784.834	18009.317	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 29
30	70891.411	17791.092	SET 5/8 IN X 30 IN IRON REBAR W/ALUM CAP STAMPED N 30
1000	70279.748	19991.241	FD 2 1/2 IN BRASS DISC STATE HIGHWAY REFERENCE 1370+91.45; 268+36.1
1001	71535.492	19682.724	FD 2 1/2 IN BRASS DISC STATE HIGHWAY REFERENCE 310+79.576606
1002	70000.000	20000.000	FD 2 1/2 IN BRASS DISC T3NR29E 4589 PLS 933, 98-155-C
1003	69994.789	19189.476	FD 2 1/2 IN BRASS DISC T3NR29E 1/4 S8-S9 PLS 852, 98-155-C

AT	TO	DISTANCE	BEARING
10	24	1000.006	S13°47'06"E
10	1000	345.573	S60°55'52"E
10	1001	1629.011	S72°59'41"E
10	1002	160.695	S07°58'31"E
10	1003	969.813	S01°00'34"E
21	22	491.323	S27°33'20"E
21	24	781.466	S10°44'12"E
21	1000	212.337	N80°22'16"E
21	1001	1490.308	S79°26'41"E
21	1002	83.167	N57°50'03"W
21	1003	769.970	S05°38'09"W
22	23	334.916	S29°06'19"E
22	24	342.102	S02°10'53"W
22	1000	471.450	N02°10'53"W
23	24	247.797	S80°48'39"W
23	25	447.996	S05°50'37"E
24	25	499.146	S35°33'10"E
24	1003	221.198	N89°36'03"W
25	26	261.218	S07°27'02"E
25	27	307.059	S01°34'30"E
25	30	1062.997	S21°14'45"E
26	27	54.259	S27°57'03"W
26	28	347.215	S12°14'56"E
26	29	568.856	S25°28'60"E
26	30	811.707	S25°38'49"E
27	28	307.805	S18°50'20"E
28	29	244.003	S44°25'22"E
29	30	242.860	S26°01'48"E
1000	1001	1293.088	S76°11'48"E
1002	1003	810.541	S00°22'06"W



BASIS OF BEARING AND CONTROL NETWORK SCHEMATIC  
NOT TO SCALE

REGISTERED PROFESSIONAL LAND SURVEYOR

*Ken W. Eddy*  
OREGON  
FEBRUARY 14, 1989  
KEN W. EDDY  
2129

EXPIRES 12/31/03

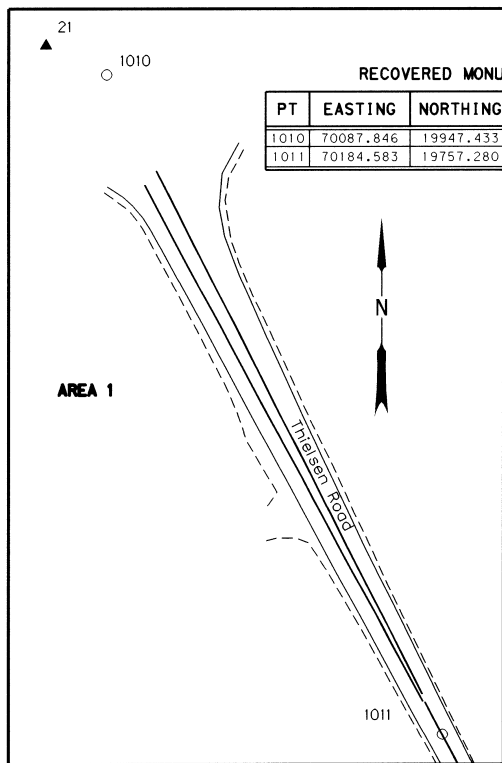
OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL AND RECOVERY MAP  
THIELSON ROAD - HWY 320 (JURISDICTIONAL EXCHANGE)  
ECHO HIGHWAY  
UMATILLA COUNTY

FOR ODOT REGION 5 RECEIVED BY 80788 KIK ROAD, HERMISTON, OR 97838  
MARCH 5, 2002 Umatilla County Surveyor Date 5-02 SHEET 2 OF 3

Rec'd By *RR*  
# 12-922

SEC. 9 & 16 T.3 N. R.29 E. W.M.



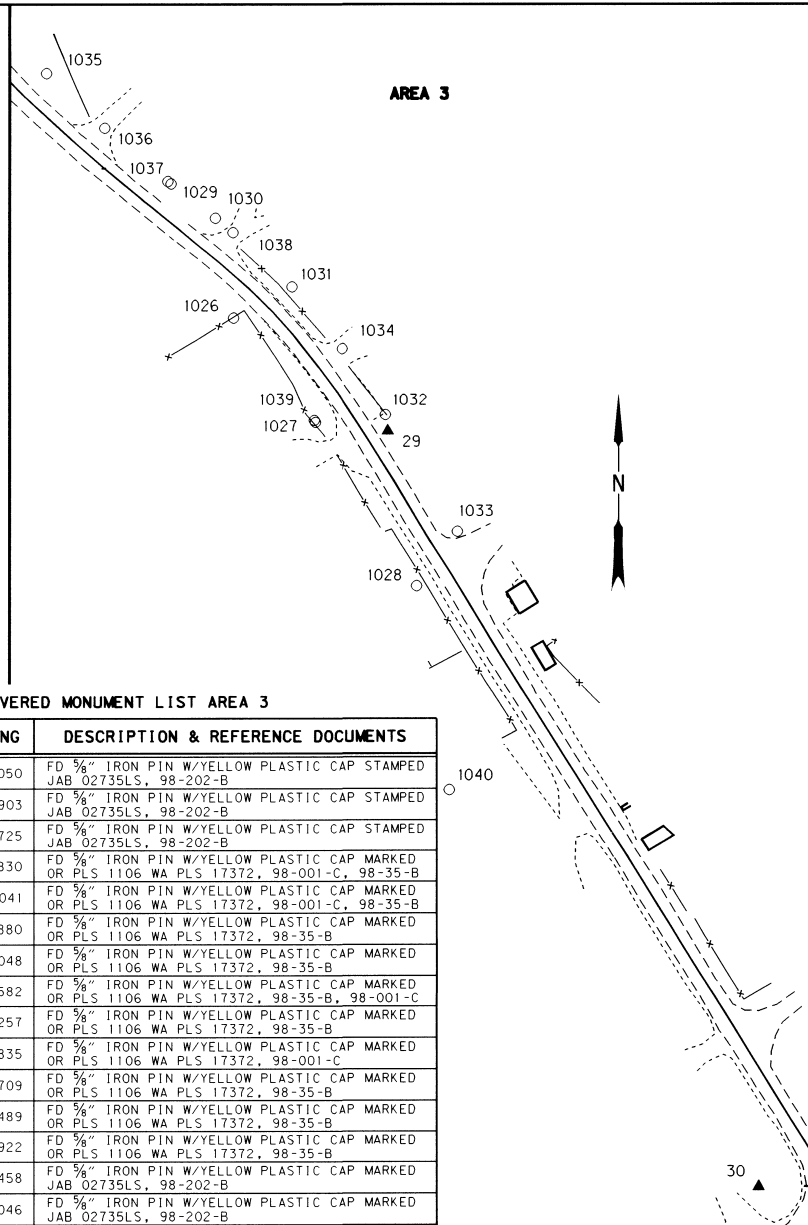
RECOVERED MONUMENT LIST AREA 1

PT	EASTING	NORTHING	DESCRIPTION & REFERENCE DOCUMENTS
1010	70087.846	19947.433	FD BRASS DISK, 23+78.72 POT
1011	70184.583	19757.280	FD BRASS DISK

REGISTERED PROFESSIONAL LAND SURVEYOR

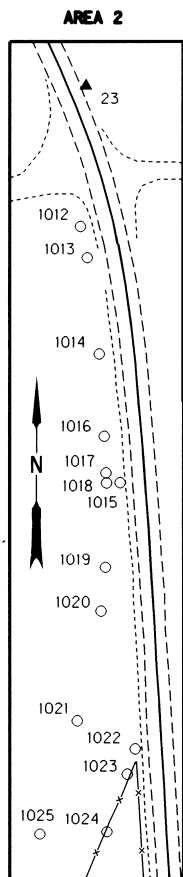
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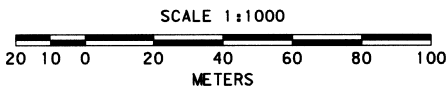
RECOVERED MONUMENT LIST AREA 3

PT	NORTHING	EASTING	DESCRIPTION & REFERENCE DOCUMENTS
1026	70740.240	18042.050	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP STAMPED JAB 02735LS, 98-202-B
1027	70763.917	18011.903	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP STAMPED JAB 02735LS, 98-202-B
1028	70793.093	17964.725	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP STAMPED JAB 02735LS, 98-202-B
1029	70722.264	18080.830	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-001-C, 98-35-B
1030	70734.977	18071.041	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-001-C, 98-35-B
1031	70757.099	18050.880	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1032	70784.109	18014.048	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1033	70804.791	17980.582	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B, 98-001-C
1034	70771.651	18033.257	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1035	70686.319	18112.835	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-001-C
1036	70703.103	18096.709	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1037	70721.302	18081.489	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1038	70740.117	18066.922	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED OR PLS 1106 WA PLS 17372, 98-35-B
1039	70763.562	18012.458	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED JAB 02735LS, 98-202-B
1040	70802.527	17906.046	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED JAB 02735LS, 98-202-B



RECOVERED MONUMENT LIST AREA 2

PT	EASTING	NORTHING	DESCRIPTION & REFERENCE DOCUMENTS
1012	70459.046	19186.922	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 848, 98-176-C, 00-108-B
1013	70460.979	19177.787	FD 5/8" IRON PIN W/BROKEN YELLOW CAP MARKED PLS 848, 00-108-B
1014	70464.432	19150.113	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP, OR PLS 1106 WA PLS 17372, 1034+82.8 PT, 98-176-C, 00-108-B
1015	70470.467	19112.941	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 848, 1036+05.5 PT, 00-108-B
1016	70465.867	19126.095	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 848, LOT 42/43, 00-108-B
1017	70466.407	19115.743	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP, OR PLS 1106 WA PLS 17372, 1035+95.5 PC, 98-176-C, 00-108-B
1018	70466.565	19112.805	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP, OR PLS 1106 WA PLS 17372, 1036+05.5 PT, 00-108-B, 98-176-C
1019	70466.243	19088.302	FD 5/8" IRON PIN W/YELLOW CAP MARKED PLS 848, 00-108-B
1020	70464.907	19075.725	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 848, LOT 42, 00-108-B
1021	70458.097	19044.066	FD 5/8" IRON PIN W/YELLOW CAP MARKED PLS 848, 00-108-B
1022	70474.787	19035.999	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 848, POT, 00-108-B, 98-176-C
1023	70472.453	19028.934	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP, OR PLS 1106 WA PLS 17372, 1038+76.8 PT, 98-176-C, 00-108-B
1024	70466.615	19012.294	FD 5/8" IRON PIN W/YELLOW PLASTIC CAP MARKED PLS 1106, 1039+34.7 PC, 98-176-C
1025	70447.297	19011.619	FD 5/8" IRON PIN W/YELLOW CAP MARKED PLS 848, LOT 41, 00-108-B



OREGON DEPARTMENT OF TRANSPORTATION

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FOR ODOT REGION 5 RECEIVED BY 80788 KJK ROAD, HERMISTON, OR 97838

MARCH 5, 2002 Umatilla County Surveyors

SHEET 3 OF 3

Date 5-02

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