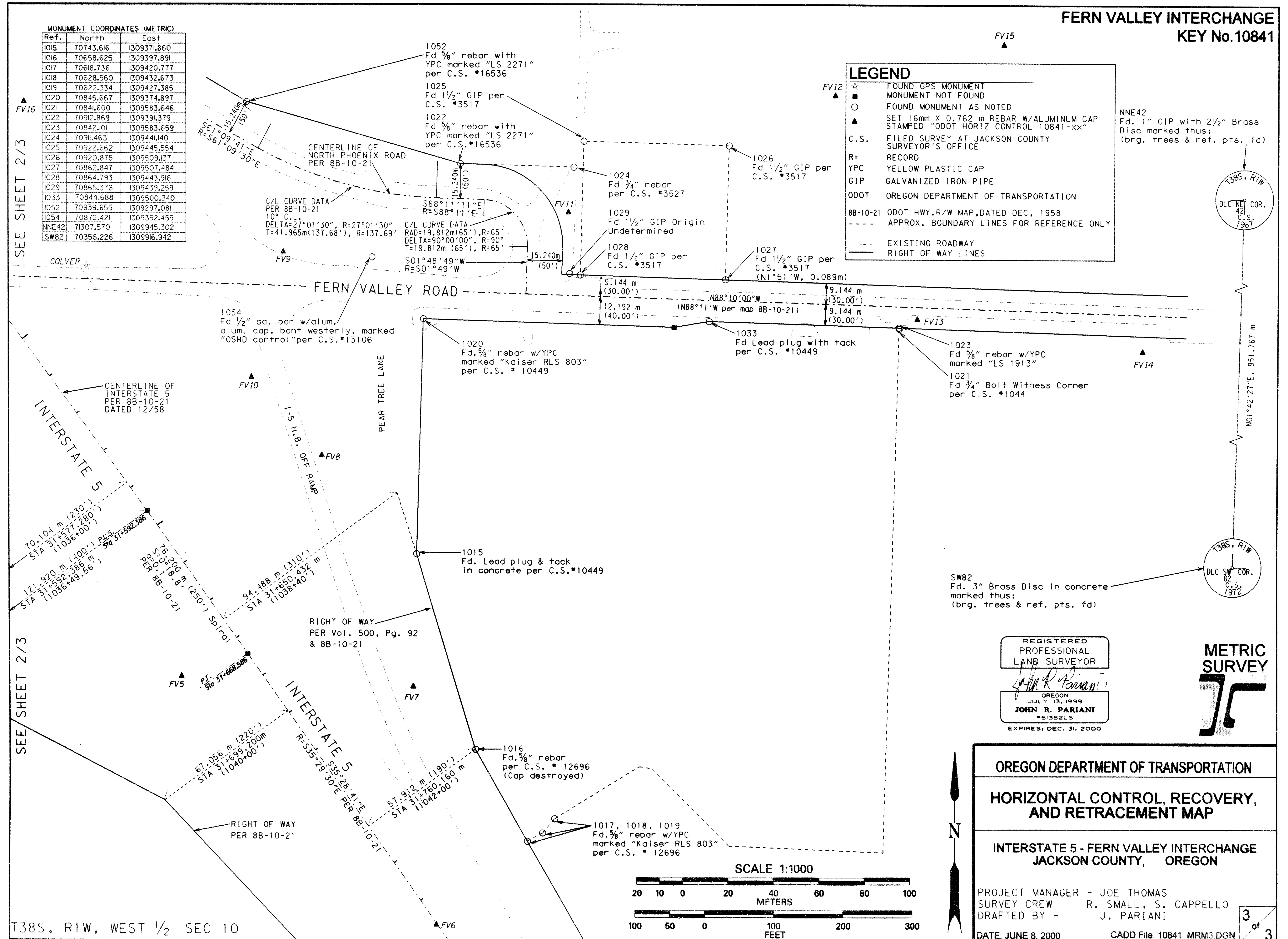


MONUMENT COORDINATES (METRIC)		
Ref.	North	East
IO15	70743.616	1309371.860
IO16	70658.625	1309397.891
IO17	70618.736	1309420.777
IO18	70628.560	1309432.673
IO19	70622.334	1309427.385
IO20	70845.667	1309374.897
IO21	70841.600	1309583.646
IO22	70912.869	1309391.379
IO23	70842.101	1309583.659
IO24	70911.463	1309441.140
IO25	70922.662	1309445.554
IO26	70920.875	1309509.137
IO27	70862.847	1309507.484
IO28	70864.793	1309443.916
IO29	70865.376	1309439.259
IO33	70844.688	1309500.340
IO52	70939.655	1309297.081
IO54	70872.421	1309352.459
NNE42	71307.570	1309945.302
SW82	70356.226	1309916.942

LEGEND

- ★ FOUND GPS MONUMENT
- MONUMENT NOT FOUND
- FOUND MONUMENT AS NOTED
- ▲ SET 16mm X 0.762 m REBAR W/ALUMINUM CAP STAMPED "ODOT HORIZ CONTROL 10841-xx"
- C.S. FILED SURVEY AT JACKSON COUNTY SURVEYOR'S OFFICE
- R= RECORD
- YPC YELLOW PLASTIC CAP
- GIP GALVANIZED IRON PIPE
- ODOT OREGON DEPARTMENT OF TRANSPORTATION
- 8B-10-21 ODOT HWY.R/W MAP, DATED DEC. 1958
- APPROX. BOUNDARY LINES FOR REFERENCE ONLY
- EXISTING ROADWAY
- RIGHT OF WAY LINES

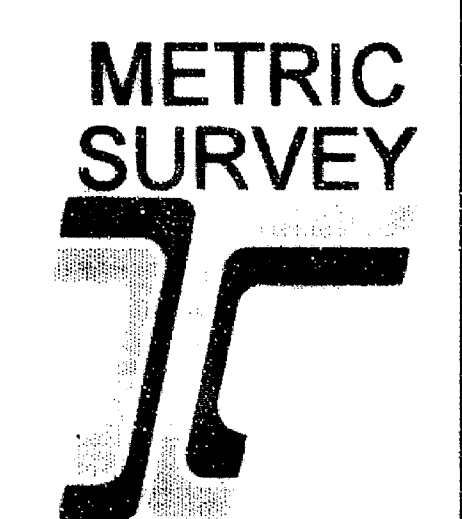


SEE SHEET 2/3

SEE SHEET 2/3

T38S, RIW, WEST 1/2 SEC 10

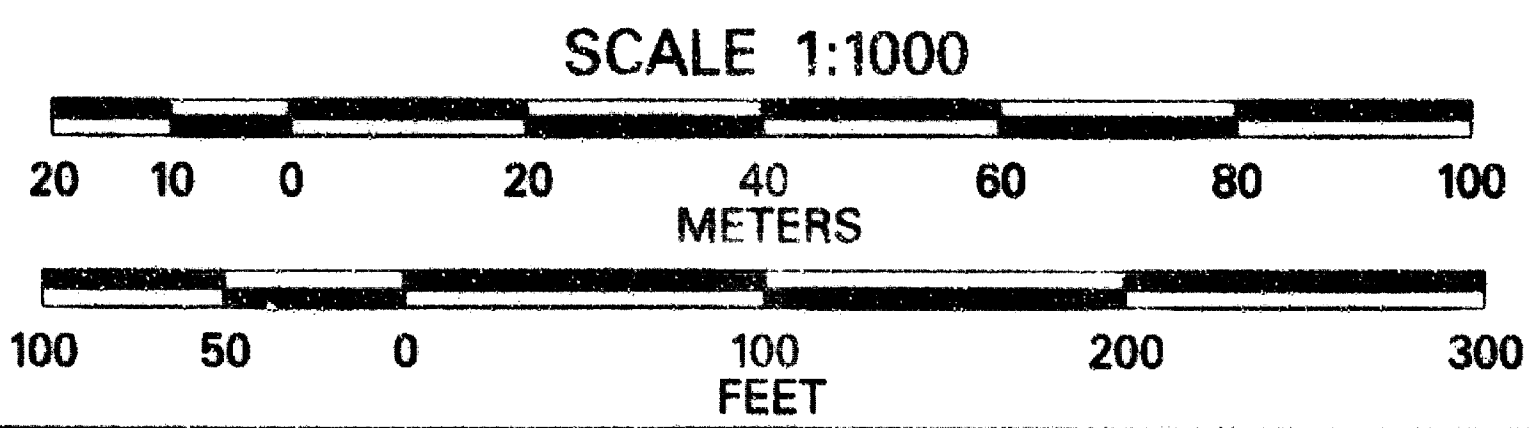
REGISTERED PROFESSIONAL LAND SURVEYOR
 JOHN R. PARIANI
 OREGON JULY 13, 1999
 #51382LS
 EXPIRES: DEC. 31, 2000



OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY, AND RETRACEMENT MAP
 INTERSTATE 5 - FERN VALLEY INTERCHANGE
 JACKSON COUNTY, OREGON

PROJECT MANAGER - JOE THOMAS
 SURVEY CREW - R. SMALL, S. CAPPELLO
 DRAFTED BY - J. PARIANI

DATE: JUNE 8, 2000 CADD File: 10841_MRM3.DGN



C.S. # 16542

MAP OF SURVEY

FERN VALLEY INTERCHANGE
KEY No. 10841

HORIZONTAL CONTROL, RECOVERY, & RETRACEMENT MAP
FOR THE OREGON DEPARTMENT OF TRANSPORTATION
LOCATED IN THE EAST 1/2 OF SECTION 9 AND THE WEST 1/2 OF SECTION 10
TOWNSHIP 38 SOUTH, RANGE 1 WEST,
WILLAMETTE MERIDIAN, JACKSON COUNTY

RECEIVED
DATE June 8, 2000 BY CAD
This survey consists of:
3 sheet(s) Map
0 page(s) Narrative
JACKSON COUNTY
SURVEYOR

SURVEY NARRATIVE

TO COMPLY WITH O.R.S. 209.250
FOR: OREGON DEPARTMENT OF TRANSPORTATION (ODOT),
ROGUE VALLEY AREA OFFICE
200 ANTELOPE ROAD, WHITE CITY, OREGON 97503

PURPOSE: TO ESTABLISH CONTROL AND LOCATE CENTERLINE OF THE RIGHT OF WAY FOR A PORTION OF FERN VALLEY ROAD, N. PHOENIX ROAD, LUMAN ROAD AND INTERSTATE 5 FOR A PROPOSED ROADWAY IMPROVEMENT PROJECT. ALSO TO LOCATE EXISTING MONUMENTS IN THE AREA TO ASSIST THE ODOT RIGHT OF WAY DEPARTMENT IN DETERMINING BOUNDARIES FOR RIGHT OF WAY ACQUISITIONS AND TO PERPETUATE THE EXISTENCE OF ANY OF THOSE FOUND MONUMENTS THAT MIGHT BE DESTROYED DURING THE FUTURE CONSTRUCTION OF THIS PROJECT.

PROCEDURE: A NETWORK WAS RUN THROUGH THE ENTIRE PROJECT AND FOUND MONUMENTS WERE DOUBLE TIED PER ODOT SPECIFICATIONS, A LEAST SQUARES ADJUSTMENT WAS USED. THE RESULTS OF THE NETWORK ADJUSTMENT ARE ON THE FACE OF THIS MAP. GPS STATIONS COLVER AND MANOR WERE USED AS THE BASIS OF BEARING. INTERSTATE 5 RIGHT OF WAY WAS DETERMINED PER ODOT MAP 8B-10-21, Vol. 500, Page 92 JACKSON COUNTY RECORDERS OFFICE AND FOUND MONUMENTS. FERN VALLEY ROAD RIGHT OF WAY WAS DETERMINED BY JACKSON COUNTY ROAD DEPARTMENT RECORDS, ODOT MAP 8B-10-21 AND FOUND MONUMENTS, THE "EAST" RIGHT OF WAY LINE ALONG LUMAN ROAD WAS DETERMINED BY ODOT MAP 8B-10-21 AND Vol. 503, Page 297 JACKSON COUNTY RECORDERS OFFICE, THE CENTERLINE AND WEST SIDE OF LUMAN ROAD WAS DETERMINED BY DOCUMENT O.R.72-10667 AND MONUMENTS SET WITH C.S.#8708. NORTH PHOENIX ROAD RIGHT OF WAY WAS DETERMINED FROM ODOT R/W MAP 8B-10-21 AND FOUND MONUMENTS.

EQUIPMENT: LEICA TCA 1800 TOTAL STATION WITH A STANDARD ANGULAR ERROR OF +/- 1 SECOND, AND A STANDARD DISTANCE ERROR OF +/- 2mm, +/- 2ppm. ELEVATIONS WERE BROUGHT IN WITH A NA2002 DIGITAL LEVEL.

SURVEYOR

OREGON DEPARTMENT OF TRANSPORTATION
ROGUE VALLEY AREA OFFICE
200 ANTELOPE ROAD
WHITE CITY, OREGON 97503

SURVEY DATA

FIELD WORK WAS COMPLETED ON MAY 19, 2000.

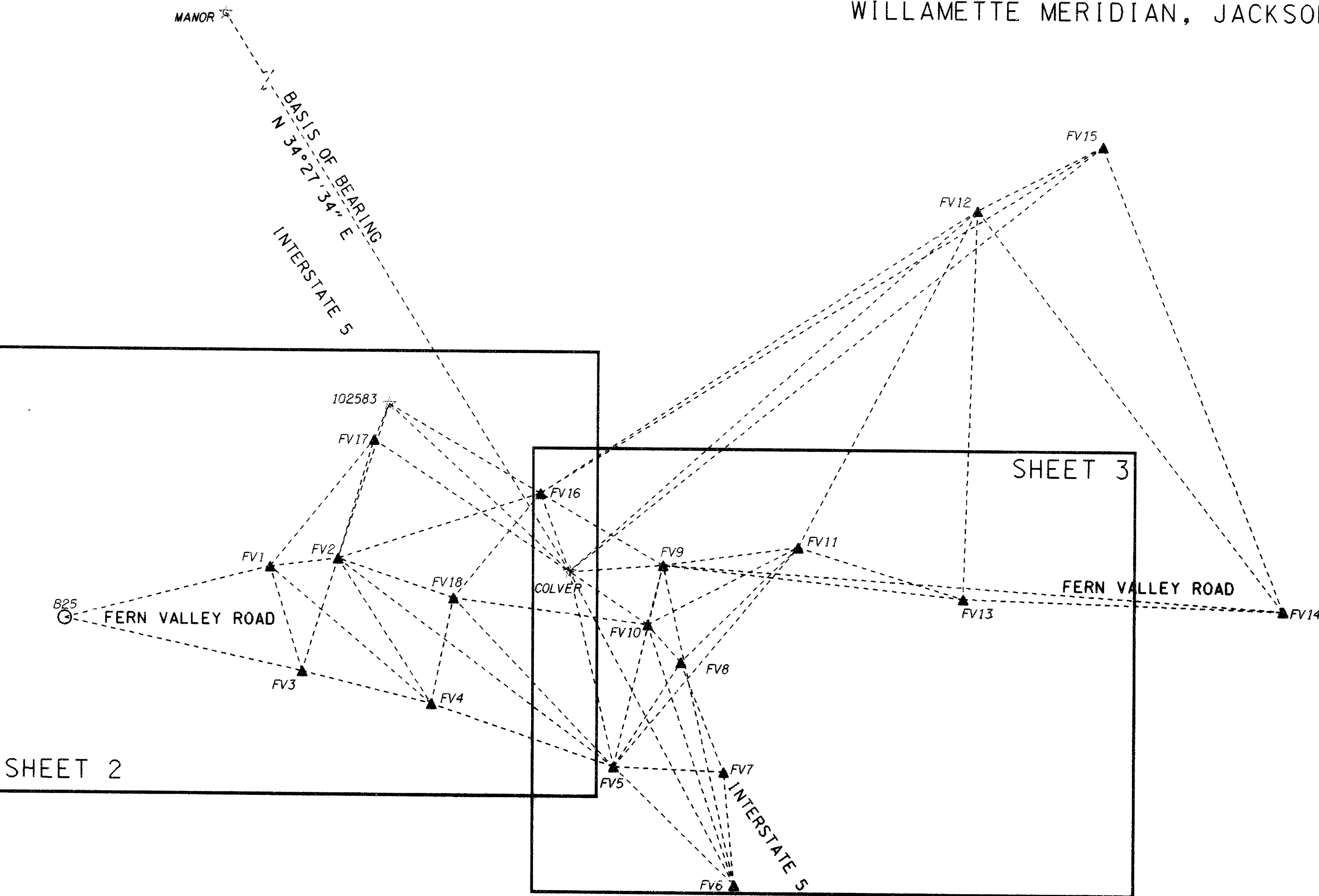
BASIS OF BEARING: GPS MONUMENTS COLVER AND MANOR NAD 83(91). MEASURED BEARINGS SHOWN ON THIS MAP ARE GRID BEARINGS, OREGON SOUTH ZONE.

COORDINATES SHOWN ARE LOCAL DATUM PLANE (LDP). TO CONVERT FROM LDP TO OREGON STATE PLANE, SOUTH ZONE, MULTIPLY THE LDP VALUE BY THE COMBINED SCALE FACTOR OF 0.99994301. THE COMBINED SCALE FACTOR IS CALCULATED FROM THE GPS STATION COLVER. ALSO, COLVER HAS A CONVERGENCE OF -01°34'59.18"

VERTICAL DATUM BASED ON BENCH MARK B 549 (NAVD 88) LOCATED IN PHOENIX, NEAR THE INTERSECTION OF FIRST STREET AND THE RAILROAD TRACKS.

LEGEND

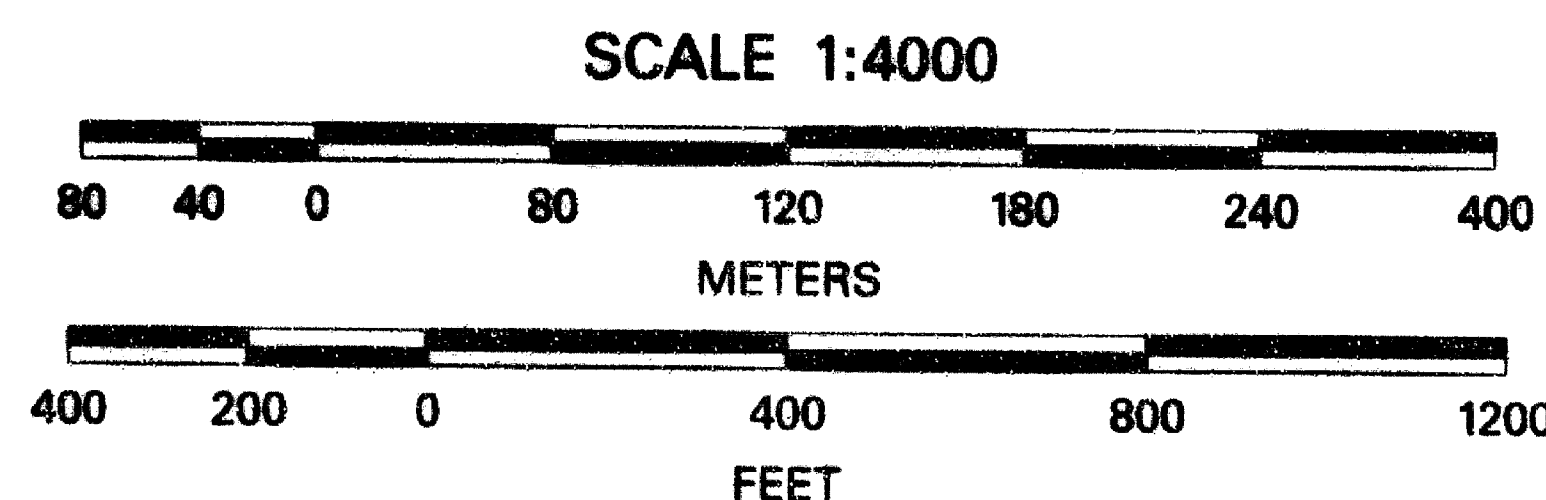
- ★ FOUND GPS MONUMENT
- ▲ SET 16mm X 0.762 m REBAR WITH ALUMINUM CAP STAMPED "ODOT HORIZ CONTROL" AND POINT NUMBER
- C.S. FILED SURVEY AT JACKSON COUNTY SURVEYOR'S OFFICE
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- RPC RED PLASTIC CAP
- IR IRON ROD
- GIP GALVANIZED IRON PIPE
- R/W ODOT HWY MAP DATED 8B-10-21
- NETWORK OBSERVATION LINES
- ODOT OREGON DEPARTMENT OF TRANSPORTATION



PT ID	EAST	NORTH	DESCRIPTION
COLVER	1309226.490	70868.410	FD 3" DISC IN CONCRETE MARKED "JACKSON COUNTY COLVER 1972"
MANOR	1307119.775	73938.345	FD PUNCHMARK BETWEEN (2) RED LIGHTS ON THE NORTH END OF ROGUE VALLEY MANOR ROOF
102582	1309056.977	71021.097	FD 3" DISC IN CONCRETE IN HWY MEDIAN MARKED "OSHD STA 1025+82.96"
B25	SEE TABLE BELOW		FD 3" BRASS DISC AT NW CORNER OF BRIDGE OVER BEAR CREEK ALONG FERN VALLEY ROAD MARKED "BCVSA C6"

Least Squares Adjustment Report Error Analysis
Variance Factor: 1.12

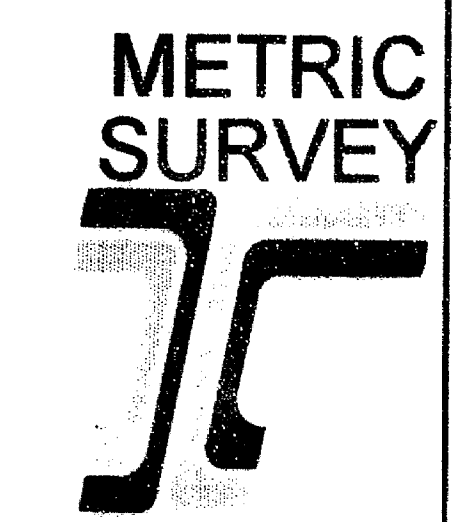
PT ID	Adjusted Coordinates		95% Confidence Limits		Error Ellipse		
	East	North	East	North	Sem. Maj	Sem. Min	Orientation
FV1	1308946.129	70871.435	0.002	0.003	0.003	0.002	10°45'29"
B25	1308754.769	70823.074	0.004	0.006	0.006	0.004	176°39'31"
FV2	1309009.366	70879.392	0.001	0.002	0.002	0.001	1°29'34"
FV3	1308976.239	70775.962	0.002	0.003	0.003	0.002	158°00'40"
FV4	1309097.419	70746.813	0.002	0.002	0.002	0.002	124°12'56"
FV5	1309267.855	70690.495	0.002	0.002	0.002	0.002	76°07'32"
FV17	1309042.856	70988.421	0.001	0.002	0.002	0.001	23°53'06"
FV18	1309117.707	70843.642	0.002	0.002	0.002	0.002	115°13'43"
FV10	1309299.098	70820.648	0.001	0.001	0.002	0.001	124°22'33"
FV6	1309380.595	70582.861	0.003	0.002	0.004	0.002	61°11'12"
FV7	1309370.317	70686.290	0.002	0.002	0.003	0.002	44°21'43"
FV8	1309330.149	70786.705	0.002	0.002	0.002	0.002	162°49'26"
FV9	1309313.163	70874.979	0.001	0.002	0.002	0.001	153°53'32"
FV11	1309438.703	70892.281	0.002	0.003	0.003	0.002	169°12'41"
FV16	1309199.146	70939.902	0.001	0.001	0.002	0.001	143°24'13"
FV14	1309888.453	70837.090	0.003	0.006	0.006	0.002	6°09'23"
FV12	1309603.117	71201.072	0.003	0.004	0.005	0.002	140°00'06"
FV15	1309719.711	71260.095	0.004	0.005	0.006	0.003	140°39'07"
FV13	1309591.721	70846.087	0.003	0.004	0.004	0.003	3°01'45"



REGISTERED PROFESSIONAL LAND SURVEYOR
John R. Pariani
OREGON
JULY 13, 1999
JOHN R. PARIANI
#51382LS
EXPIRES: DEC. 31, 2000

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY, AND RETRACEMENT MAP
INTERSTATE 5 - FERN VALLEY INTERCHANGE
JACKSON COUNTY, OREGON

PROJECT MANAGER - JOE THOMAS
SURVEY CREW - R. SMALL, S. CAPPELLO
DRAFTED BY - J. PARIANI
DATE: JUNE 8, 2000 CADD File: 10841_MRM1.DGN



T38S, RIW, EAST 1/2 SEC 9, & WEST 1/2 SEC 10

C.S. # 16542

MONUMENT COORDINATES (METRIC)		
Ref.	North	East
1000	70830.162	1308849.419
1001	70851.983	1308862.908
1002	70843.721	1308909.237
1003	71008.657	1308899.392
1004	70874.371	1308961.642
1005	70856.536	1308965.678
1006	70878.263	1308986.695
1007	70859.102	1308979.864
1008	70859.602	1308987.445
1009	70878.837	1309008.155
1010	70958.855	1309016.922
1011	70974.071	1309009.554
1012	71017.863	1308988.399
1013	71031.197	1308981.919
1014	71060.727	1308967.715
1034	70860.483	1309007.485
1035	70860.060	1308987.877
1036	70864.258	1308917.008
1037	70886.132	1308912.047
1038	70963.173	1308904.086
1039	70833.271	1308981.535
1040	70878.159	1309029.703
1041	70849.112	1309021.344
1042	70824.917	1309033.091
1043	70824.359	1309046.898
1044	70790.165	1308976.082
1045	70735.146	1308932.881
1046	70734.894	1308936.625
1047	70732.540	1308972.975
1048	70759.823	1308867.147
1049	70730.988	1308972.895
1050	70931.358	1308854.750
1051	70931.288	1308854.668

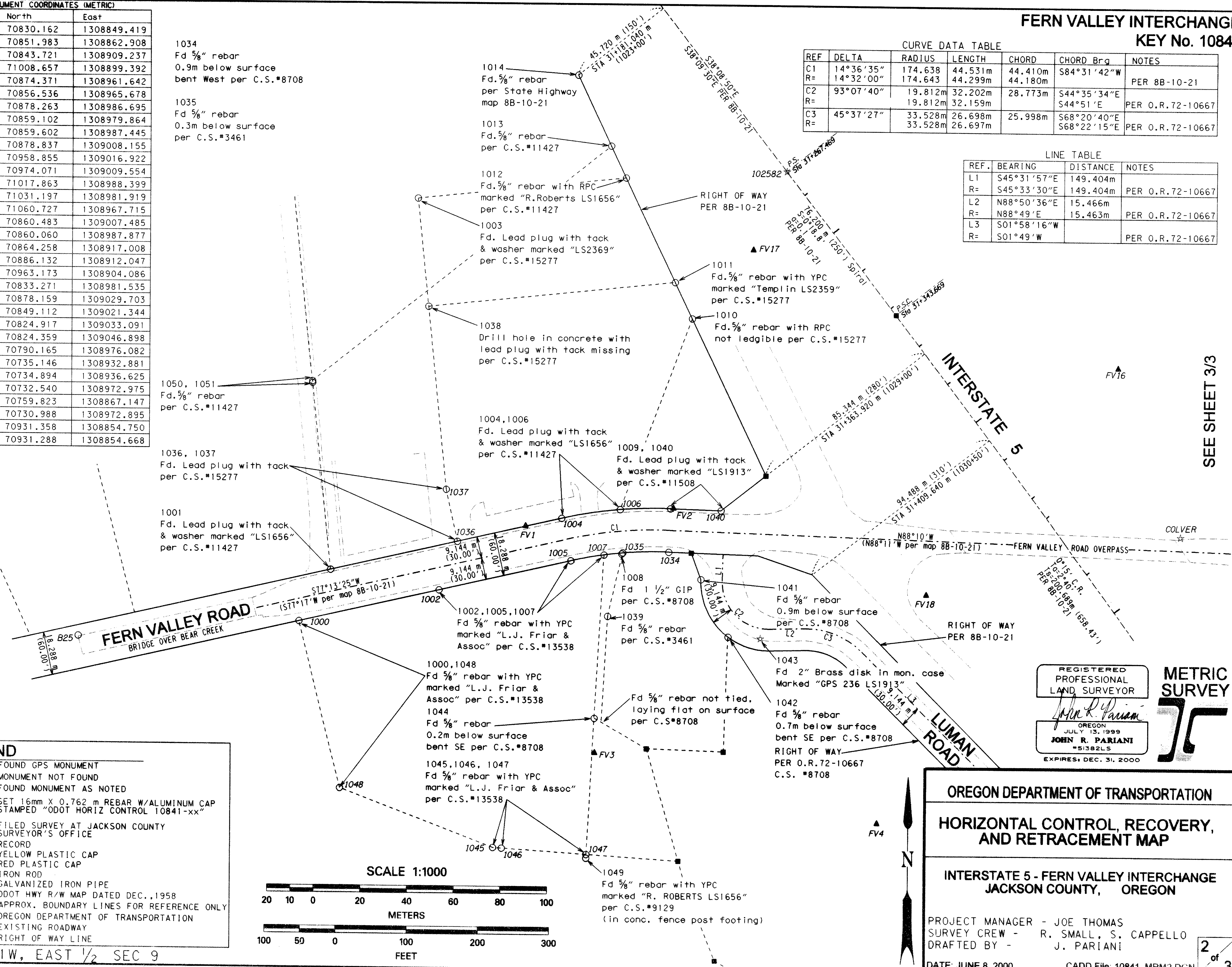
1034
Fd 5/8" rebar
0.9m below surface
bent West per C.S.#8708

1035
Fd 5/8" rebar
0.3m below surface
per C.S.#3461

CURVE DATA TABLE						
REF.	DELTA	RADIUS	LENGTH	CHORD	CHORD Brg	NOTES
C1	14°36'35"	174.638	44.531m	44.410m	S84°31'42"W	PER 8B-10-21
R=	14°32'00"	174.643	44.299m	44.180m		
C2	93°07'40"	19.812m	32.202m	28.773m	S44°35'34"E	PER O.R.72-10667
R=		19.812m	32.159m		S44°51'E	
C3	45°37'27"	33.528m	26.698m	25.998m	S68°20'40"E	PER O.R.72-10667
R=		33.528m	26.697m		S68°22'15"E	

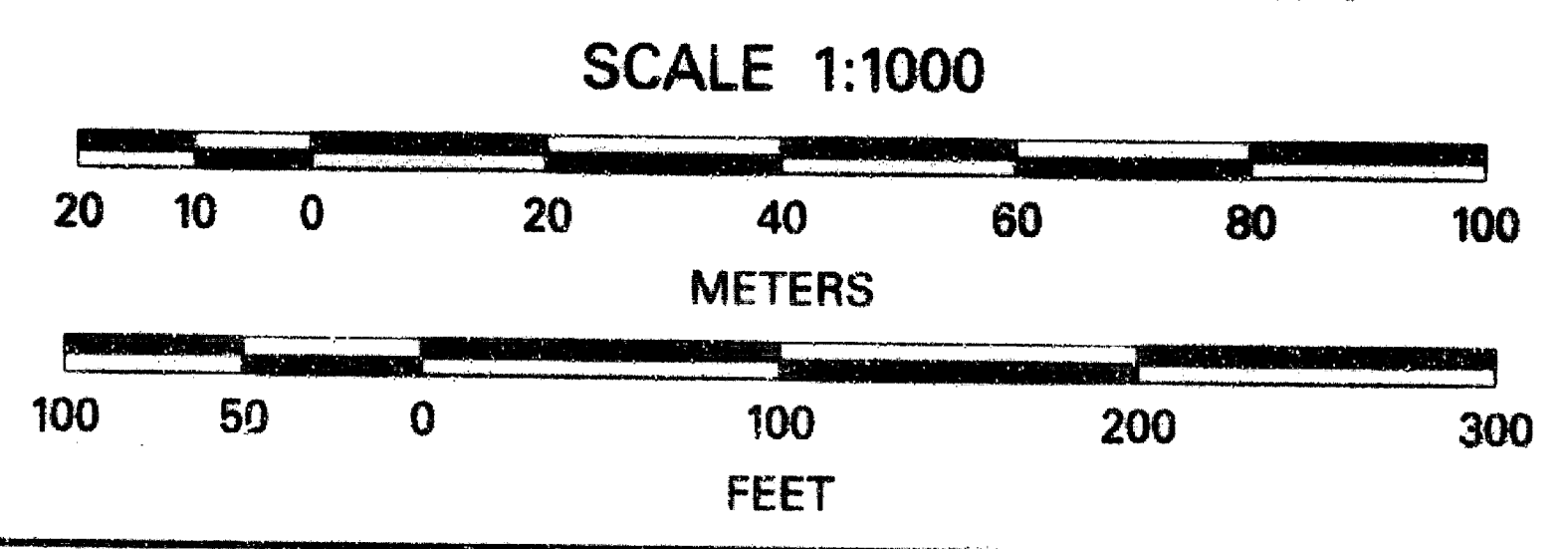
LINE TABLE			
REF.	BEARING	DISTANCE	NOTES
L1	S45°31'57"E	149.404m	PER O.R.72-10667
R=	S45°33'30"E	149.404m	PER O.R.72-10667
L2	N88°50'36"E	15.466m	PER O.R.72-10667
R=	N88°49'E	15.463m	PER O.R.72-10667
L3	S01°58'16"W		PER O.R.72-10667
R=	S01°49'W		PER O.R.72-10667

SEE SHEET 3/3



LEGEND

- ★ FOUND GPS MONUMENT
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- FOUND MONUMENT AS NOTED
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- - - APPROX. BOUNDARY LINES FOR REFERENCE ONLY
- ODOT OREGON DEPARTMENT OF TRANSPORTATION
- EXISTING ROADWAY
- RIGHT OF WAY LINE



REGISTERED PROFESSIONAL LAND SURVEYOR

John R. Pariani

OREGON
JULY 13, 1999
JOHN R. PARIANI
#51382LS
EXPIRES: DEC. 31, 2000

METRIC SURVEY

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY, AND RETRACEMENT MAP

INTERSTATE 5 - FERN VALLEY INTERCHANGE
JACKSON COUNTY, OREGON

PROJECT MANAGER - JOE THOMAS
SURVEY CREW - R. SMALL, S. CAPPELLO
DRAFTED BY - J. PARIANI

DATE: JUNE 8, 2000 CADD File: 10841_MRM2.DGN