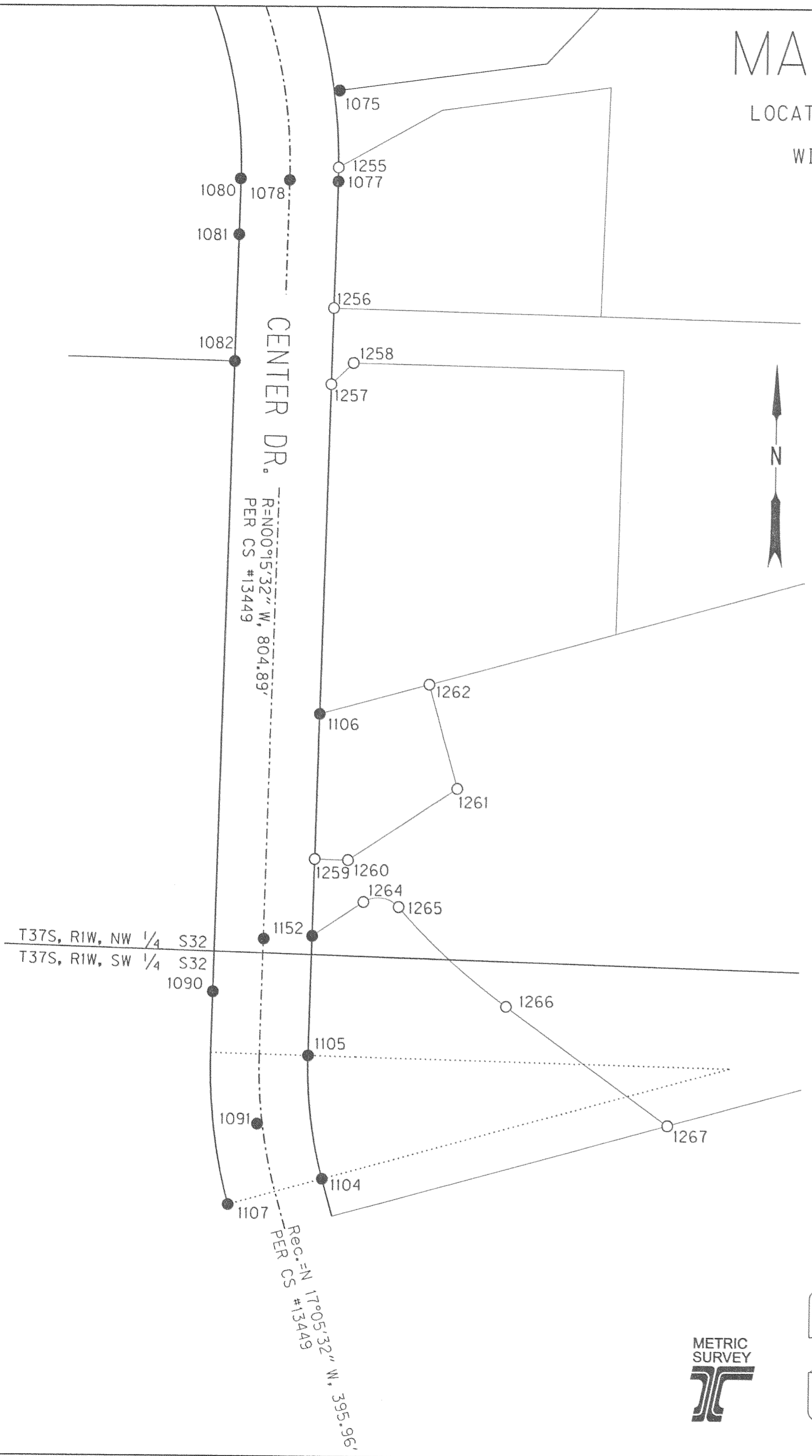


MAP OF SURVEY

LOCATED IN THE WEST 1/2 OF SECTION 32
TOWNSHIP 37 SOUTH, RANGE 1 WEST,
WILLAMETTE MERIDIAN, JACKSON COUNTY

*** RECEIVED ***
 DATE 9-29-06 BY *dm*
 This survey consists of:
 --- 2 --- sheet(s) Map
 --- 0 --- page(s) Narrative
 JACKSON COUNTY
 SURVEYOR



NARRATIVE:

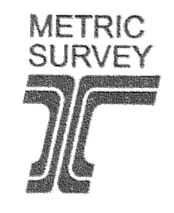
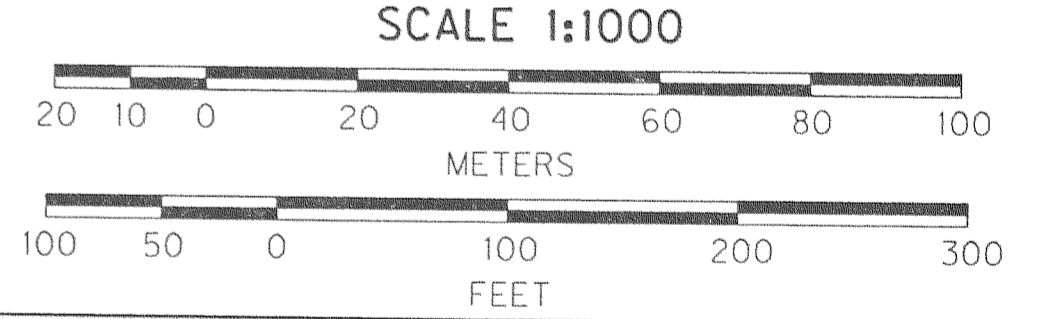
THE PURPOSE OF THIS SURVEY IS TO SHOW RECOVERED MONUMENTS WHICH HAVE BEEN RECORDED SINCE THE INITIAL RECOVERY MAP (C.S. 17166) FOR THE SOUTH MEDFORD INTERCHANGE (SMI) PROJECT. FOUR NEW PRIMARY CONTROL POINTS WERE ESTABLISHED ON THE EXTERIOR OF THE PROJECT LIMITS. THESE POINTS WERE ESTABLISHED FROM A STATIC GPS NETWORK, USING TWO NATIONAL GEODETIC SURVEY (NGS) HIGH ACCURACY REFERENCE NETWORK (HARN) STATIONS 'ASH' AND 'JUSTICE'. THE HARN STATIONS WERE FIXED FOR THIS NETWORK AND A LEAST SQUARES ADJUSTMENT WAS PERFORMED. IN ORDER TO UTILIZE THE OREGON REAL TIME GPS NETWORK IN THE FUTURE, NAD 83(1998), WAS USED FOR THE HORIZONTAL DATUM. THIS IS DIFFERENT FROM THE PRIOR RECOVERY MAP (C.S. 17166), WHICH IS BASED ON NGS STATION "JOHN". STATION "JOHN" HAS NAD 83 (1991) HORIZONTAL COORDINATES ESTABLISHED BY CLASSICAL GEODETIC METHODS. A TRANSFORMATION WAS THEN COMPUTED UTILIZING WGS 84 COORDINATES AND THE LOCAL DATUM PLANE COORDINATES FROM C.S. 17166. THE LOCAL DATUM PLANE POINTS USED FOR THE TRANSFORMATION ARE 1004, 1005, 1078, 1111, 1205, 1216, 1221, 1223, 1228, 1247 AND 617. THE RESULTS WERE ACCEPTED AND A FIELD CHECK WAS PERFORMED. THE RECOVERED MONUMENTS WERE TIED AND BASED ON CONTROL FROM C.S. 17166.

EQUIPMENT USED:

GPS:
 LEICA GPS 500 SYSTEM DUAL FREQUENCY RECEIVERS WITH A PUBLISHED ACCURACY OF 5mm + 1 ppm.

TOTAL STATION:
 LEICA TCA 1800 WITH A STANDARD ANGULAR ERROR OF 1 SECOND AND A STANDARD DISTANCE ERROR OF 2mm + 2 ppm.

CENTERLINE CURVE:
 RECORD PER CS #13449
 DELTA = 16°50'00"
 L = 127.80'
 RAD = 435.00'
 LC = 127.34'
 LC BG = N8°40'32"W



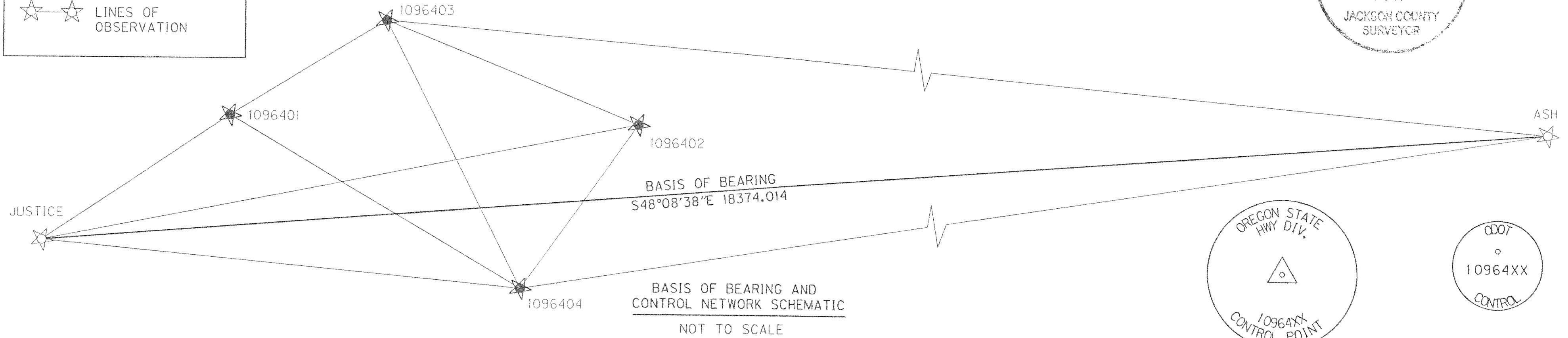
REGISTERED
 PROFESSIONAL
 LAND SURVEYOR
Stuart E. Cappello
 OREGON
 JULY 09, 2001
 STUART E. CAPPELLO
 52908LS
 EXPIRES 12/31/07

LEGEND	OREGON DEPARTMENT OF TRANSPORTATION
○ RECOVERED MONUMENT AS NOTED IN TABLE ON PAGE 2	HORIZONTAL CONTROL AND RECOVERY MAP
● MONUMENTS RECOVERED IN C.S. 17166	SOUTH MEDFORD INTERCHANGE CITY OF MEDFORD JACKSON COUNTY, OREGON
— PROPERTY LINES	100 ANTELOPE ROAD WHITE CITY, OREGON 97503
- - - RIGHT OF WAY CENTER LINE	1 of 2
— EXISTING RIGHT OF WAY	

LOCATED IN THE SOUTHWEST 1/4 OF SECTION 29, SOUTHEAST 1/4 OF SECTION 30,
SOUTHEAST 1/4 OF SECTION 31 AND IN THE SOUTHWEST 1/4 OF SECTION 32,
TOWNSHIP 37 SOUTH, RANGE 1 WEST,
WILLAMETTE MERIDIAN, JACKSON COUNTY

LEGEND

- ★ SET GPS STATION
- ☆ FOUND GPS STATION
- ☆—☆ LINES OF OBSERVATION



****RECEIVED****
Date 9-29-06 By AMS
This survey consists of:
2 sheet(s) Map
0 page(s) Narrative
JACKSON COUNTY
SURVEYOR

OREGON STATE
HWY DIV.
10964XX
CONTROL POINT

0007
10964XX
CONTROL

* = HELD POINTS FOR NETWORK ADJUSTMENT REFERENCE ELLIPSOID IS WGS84 GEOID SEPERATIONS ARE BASED ON GEOID03.

POINT NUMBER	EASTING (m) SPC OR S	NORTHING (m) SPC OR S	LATITUDE NAD 83 (1998)	LONGITUDE NAD 83 (1998)	ELIPSOID HT.	NGVD 29 ELEV.	GEOID SEP.
1096401	1305282.911	75404.942	42°19'14.68183"	122°51'44.71146"	396.372	420.585	-24.19
1096402	1306785.797	73817.457	42°18'24.62151"	122°50'37.16402"	408.637	431.794	-24.16
1096403	1306235.443	75171.871	42°19'07.99976"	122°51'02.84369"	404.522	427.705	-24.19
1096404	1305717.815	73645.463	42°18'18.07840"	122°51'23.56420"	408.594	431.760	-24.16
ASH*	1317783.110	63387.183	42°12'56.39412"	122°42'25.16921"	533.89		-23.80
JUSTICE*	1304098.137	75646.788	42°19'21.43039"	122°52'36.73116"	400.64		-24.20

SET 2" ALUMINUM CAP FOR POINTS
1096401 AND 1096402

SET 1 1/8" BRASS DISK IN CONCRETE FOR POINTS
1096403 AND 1096404

95% CONFIDENCE REGIONS

POINT NUMBER	SEMI-MAJOR (a)	SEMI-MINOR (b)	ORIENTATION	HEIGHT (f)	CONVERGENCE	SCALE FACTOR	COMBINED SCALE FACTOR
1096401	0.003	0.002	4°17'18.8"	0.005	-1°36'58.5"	1.00000319	0.99994478
1096402	0.003	0.002	-0°16'10.0"	0.006	-1°36'12.3"	1.00000678	0.99994643
1096403	0.003	0.002	2°15'02.2"	0.006	-1°36'29.8"	1.00000367	0.99994398
1096404	0.003	0.002	3°29'38.3"	0.005	-1°36'44.0"	1.00000725	0.99994691
ASH*	0.000	0.000		0.000	-1°30'35.7"	1.00003170	0.99994797
JUSTICE*	0.000	0.000		0.000	-1°37'34.1"	1.00000271	0.99993988

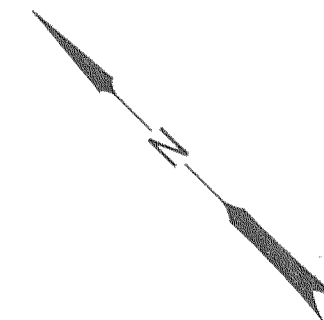
TRANSFORMATION COORDINATES TO MATCH CONTROL FROM C.S. 17166.

POINT ID	NORTHING	EASTING
1096401	75409.064	1305358.626
1096402	73821.497	1306861.591
1096403	75175.980	1306311.208
1096404	73649.491	1305793.552

RECOVERED MONUMENT LIST

OPC = ORANGE PLASTIC CAP C.S. = COUNTY SURVEY

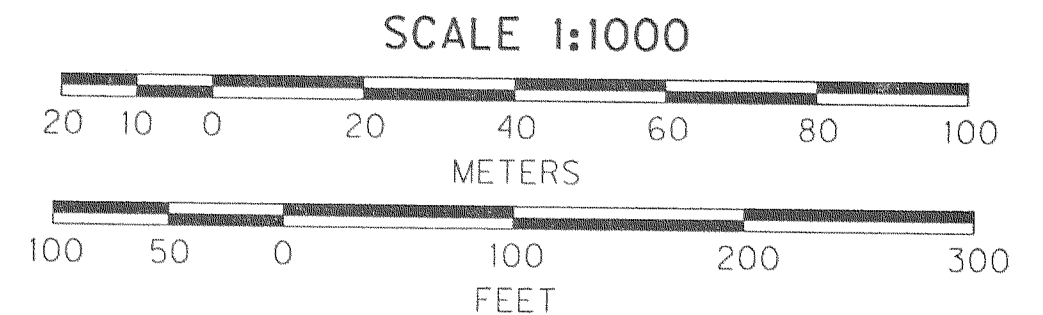
PT. NO.	LDP NORTHING	LDP EASTING	RECOVERED DATE	DESCRIPTION & REFERENCE DOCUMENTS
1255	74334.152	1305994.067	4-25-06	FND 5/8" REBAR C.S. 17776
1256	74294.687	1305993.168	4-25-06	FND 5/8" REBAR BENT SOUTHEASTERLY C.S. 17776
1257	74273.349	1305992.658	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18547
1258	74279.341	1305998.890	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1259	74139.960	1305989.474	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1260	74139.729	1305998.866	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1261	74159.804	1306029.443	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1262	74189.333	1306021.269	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1263	74118.615	1305988.942	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1264	74128.094	1306003.350	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1265	74126.784	1306013.256	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1266	74099.045	1306043.842	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843
1267	74065.918	1306089.584	4-25-06	FND 5/8" REBAR W/OPC "HARDY ENG & ASSOC." C.S. 18843



REGISTERED PROFESSIONAL LAND SURVEYOR

Stuart E. Cappello
OREGON
JULY 09, 2001
STUART E. CAPPELLO
52908LS

EXPIRES 12/31/07



OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL AND RECOVERY MAP

SOUTH MEDFORD INTERCHANGE
CITY OF MEDFORD
JACKSON COUNTY, OREGON

100 ANTELOPE ROAD
WHITE CITY, OREGON 97503

2 of 2