



LOCATED IN
 S.E. 1/4 SEC. 25 T.4N. R.36E. W.M.
 S.W. 1/4 SEC. 29 T.4N. R.37E. W.M.
 N.E. 1/4 SEC. 34 T.4N. R.37E. W.M.
 S.W. 1/4 SEC. 25 T.4N. R.37E. W.M.
 N.E. 1/4 SEC. 31 T.4N. R.38E. W.M.
 N.E. 1/4 SEC. 32 T.4N. R.38E. W.M.
 S.W. 1/4 SEC. 33 T.4N. R.38E. W.M.
 UMATILLA COUNTY, OREGON

ATHENA

PROJECT AREA

ECCENTRIC

VIEW

TANK

HWY.

204

NO. 330

B515

34

LEOJ

31

S32

Lake

T279

204

Tollgate

Weston

NET5

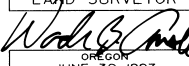
D515

NOT TO SCALE

BIG HILL RESET


LEGEND

- △ SET MONUMENT
- ☆ HARN POINTS
- FOUND MONUMENT

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

 WADE B. ANSELL
 02837LS
 OREGON
 JUNE 30, 1997
 EXP. DATE 12-31-99

RECEIVED BY
 Umatilla County Surveyor
 Date 4-29
 Rec'd By [Signature]
 No. 79-478

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

	OREGON DEPARTMENT OF TRANSPORTATION GEOMETRONICS UNIT 200 HAWTHORNE AVE. SE, SUITE B260 SALEM, OR 97310 (503)966-3103; FAX (503)966-3548	
	GEODETTIC SURVEY REPORT TOLLGATE HORIZONTAL CONTROL, HWY. 204 GEOMETRONICS CONTROL FILE #66-022 FOR OREGON DEPARTMENT OF TRANSPORTATION REGION 5, HERMISTON PROJECT MANAGER	
DATE OF SURVEY: 11-23-98	DRAWN BY: WBA CHECKED BY: JDB	KEY NO.: 10267
		SHEET 1 OF 3

SURVEY NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH HORIZONTAL CONTROL FOR A MODERNIZATION PROJECT ALONG THE ELGIN HIGHWAY (OR NO. 330), WESTON TO LANGDON LAKE SECTION. THREE LEICA DUAL FREQUENCY RECEIVERS WERE USED. NGS (HARN) REFERENCE STATIONS "ATHENA" AND "BIG HILL RESET" WERE THE BASIS FOR THE SURVEY. TIES TO THE HARN WERE MADE FROM LOCAL CONTROL POINTS "VIEW", AND "TANK". THE REMAINING CONTROL WAS THEN TIED TO "VIEW", AND "TANK". ELEVATIONS WERE ESTABLISHED USING GPS WITH STATIONS "D515" AND "T279" BEING THE BASIS FOR THE ELEVATIONS. RAW DATA FOR THIS HORIZONTAL CONTROL NETWORK CAN BE FOUND IN ODOT - GEOMETRONICS CONTROL FILE 98-022, LOCATED IN SALEM, OREGON.

MONUMENT INFORMATION (GRID COORDINATES - OREGON COORDINATE SYSTEM NORTH ZONE) DATUM: NAD 83/91

STATION DESIGNATION	EASTING (m)	NORTHING (m)	DESCRIPTION	LATITUDE (AT 2 SIGMA)	LONGITUDE (AT 2 SIGMA)
BIG HILL RESET (HARN)	.....	.....	SEE NGS DATA SHEET FOR RB1488	45° 35' 58.223430"	118° 31' 48.552940"
ATHENA (HARN)	.....	.....	SEE NGS DATA SHEET FOR RB1314	48° 48' 45.209340"	118° 28' 15.172370"
D515	2677228.1790	238442.5428	3 1/2 INCH BRASS DISK SET IN CONC.	45° 47' 23.610817" +/-0.007 m	118° 13' 13.095541" +/-0.012 m
ECCENTRIC	2683437.2671	238497.1882	3 1/2 INCH ALUM. DISK IN A IRON PIPE	45° 47' 19.606509" +/-0.007 m	118° 08' 25.658149" +/-0.012 m
LEOJ	2683259.9431	238430.7792	3 INCH BRASS DISK SET IN CONC.	45° 47' 17.624014" +/-0.007 m	118° 08' 33.954442" +/-0.012 m
TANK	2674711.5959	238195.9648	3 INCH BRASS DISK SET IN CONC.	45° 47' 17.910494" +/-0.007 m	118° 15' 09.887929" +/-0.011 m
VIEW	2685335.9520	237775.9613	3 INCH BRASS DISK SET IN CONC.	45° 46' 54.450205" +/-0.007 m	118° 06' 58.772495" +/-0.012 m
S32	2687243.4078	237718.6760	3 1/2 INCH ALUM. DISK IN A IRON PIPE	45° 46' 50.763484" +/-0.008 m	118° 05' 30.586586" +/-0.013 m
T279	2688390.8211	236944.3777	3 INCH BRASS DISK SET IN CONC.	45° 46' 24.583306" +/-0.008 m	118° 04' 38.567522" +/-0.013 m
NET5	2674830.9256	238206.7135	1 1/2 INCH ALUM. CAP WITH IRON ROD	45° 47' 18.150984" +/-0.008 m	118° 15' 04.351308" +/-0.012 m

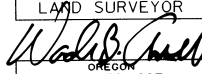
NAVD 88

STATION DESIGNATION	ELEVATIONS (m)
BIG HILL RESET (HARN)	1150.38
ATHENA (HARN)	570.509
D515	1220.782
ECCENTRIC	1368.982
LEOJ	1362.402
TANK	1126.380
VIEW	1526.084
S32	1491.258
T279	1514.649
NET5	1135.017

TO REACH STATIONS

NET5
 LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 10.187. MONUMENT IS AN ODOT ALUMINUM CAP WITH IRON ROD. MARK WAS USED AS AN AZIMUTH MARK FOR CONTROL POINT "TANK". MARK IS NEAR THE SOUTHEAST CORNER OF AN ODOT QUARRY SITE. APPROXIMATELY 200 METERS FROM STATION "TANK". STATION IS RIGHT OF CENTERLINE.

RECEIVED BY
 Clatsop County Surveyor
 Date 4-98
 Made by RL
 No. 77-47-B

REGISTERED PROFESSIONAL LAND SURVEYOR

 OREGON
 JUNE 30, 1997
 WADE B. ANSELL
 02837LS
 EXP. DATE 12-31-99

METRIC


OREGON DEPARTMENT OF TRANSPORTATION
 GEOMETRONICS UNIT
 200 HAWTHORNE AVE. SE, SUITE B250
 SALEM, OR 97310
 (503)886-3103; FAX (503)886-3548


GEODETIC SURVEY REPORT
 ROGUE RIVER - ROBERTSON BRIDGE HORIZONTAL CONTROL
 GEOMETRONICS CONTROL FILE 98-015
 FOR OREGON DEPARTMENT OF TRANSPORTATION REGION 3

DATE OF SURVEY: 7-22-98	DRAWN BY: WBA	KEY NO.: 02888	SHEET	OF
	CHECKED BY: JDB		2	3

TO REACH STATIONS (CONT.)

<p style="text-align: center;">TANK</p> <p>LOCATED ALONG HWY. 204 (OR 330) M.P. 10.187. 11 METERS RIGHT OF CENTER LINE. PROTRUDES 100MM ABOVE GROUND AT THE TOP OF A 3 FOOT CUT BANK. NW OF AND ACROSS THE ROAD FROM AN ODOT OWNED STOCKPILE PROPERTY SITE. MONUMENT IS AN 3 INCH ODOT BRASS DISK SET IN CONCRETE STAMPED "TANK" 1998.</p>	<p style="text-align: center;">D515</p> <p>LOCATED AT MILE POST 11.881, HIGHWAY 204 (OREGON NO. 330). 9.17 METERS RIGHT OF CENTER LINE. PROTRUDING 150MM ABOVE GROUND AT THE INTERSECTION OF TWO GRAVEL DRIVEWAYS. 8.8 METERS NORTHWEST OF A POWERPOLE WITH A TRANSFORMER. MONUMENT IS A 3 1/2 INCH U.S.C. & G.S. BRASS DISK SET IN CONCRETE STAMPED "D 515 1952".</p>
<p style="text-align: center;">LEOJ</p> <p>LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 16.191. 10.97 METERS RIGHT OF CENTER LINE PROTRUDING 100 MM ABOVE GROUND. IN A CLEARING APPROXIMATELY 76 METERS SOUTH OF AND ACROSS THE ROAD FROM A UMATILLA COUNTY ELECTRICAL COOP. UTILITY STATION. ALSO 1.30 KILOMETERS WEST OF THE LINCTON MT. ROAD INTERSECTION AT THE CHALET RESTAURANT. MONUMENT IS A BRASS DISK SET IN CONCRETE, STAMPED "LEOJ 1998".</p>	<p style="text-align: center;">VIEW</p> <p>LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 18.243. 18.9 METERS LEFT OF CENTER LINE. PROTRUDING 100 MM ABOVE GROUND AT THE TOP OF A CUT BANK APPROXIMATELY 4 METERS ABOVE THE ROADWAY. ALSO 4.61 KILOMETERS EAST OF THE LINCTON MOUNTAIN ROAD AT THE CHALET RESTAURANT. MONUMENT IS A 3 INCH ODOT BRASS DISK SET IN CONCRETE. STAMPED "VIEW 1998".</p>
<p style="text-align: center;">ECCENTRIC</p> <p>LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 16.309 9.14 METERS LEFT OF CENTER LINE, PROTRUDING 250 MM ABOVE GROUND. MONUMENT IS AN U.S. DEPT. OF AGRICULTURE, FOREST SERVICE 3 1/2 INCH ALUMINUM CAP IN A STEEL PIPE. STAMPED "ECCENTRIC BM 3096-16". IS ALSO 1.49 KILOMETERS EAST OF THE LINCTON MT. ROAD INTERSECTION AT THE CHALET RESTAURANT.</p>	<p style="text-align: center;">S32</p> <p>LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 19.712. 9.75 METERS RIGHT OF CENTER LINE. PROTRUDING 25 MM ABOVE GROUND. MONUMENT IS A 3 1/2 INCH ALUMINUM DISK IN A IRON PIPE. APPROXIMATELY 1.8 METERS LOWER THAN THE ROADWAY. MONUMENT HAS BEEN DISTURBED AND MOVES +/- 4 INCHES. MONUMENT IS STAMPED "C-----+-----C" <div style="text-align: right; margin-right: 100px;">32</div> <p style="text-align: center;">T 4 N R 38 E, E 1/16 1985 OPLS 991</p> </p>
<p style="text-align: center;">T279</p> <p>LOCATED ALONG HIGHWAY 204 (OREGON NO. 330) AT MILE POINT 20.580 20.12 METERS RIGHT OF CENTER LINE, PROTRUDING 250 MM ABOVE GROUND. 36.3 METERS WEST OF THE SOUTHWEST END OF AN 460MM DRAINAGE PIPE. ABOUT 4.6 METERS ABOVE THE HIGHWAY, BACK OF A CUT BANK. MONUMENT IS A U.S. DEPARTMENT OF AGRICULTURE 3 INCH BRASS DISK SET IN THE TOP OF A CONCRETE POST. DISK IS STAMPED "T 279 1934".</p>	

REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JUNE 30, 1997
WADE B. ANSELL
02837LS
EXP. DATE 12-31-99



OREGON DEPARTMENT OF TRANSPORTATION
GEOMETRONICS UNIT
200 HAWTHORNE AVE. SE, SUITE B250
SALEM, OR 97310
(503)988-3103; FAX (503)988-3548

GEODETIC SURVEY REPORT
ROGUE RIVER - ROBERTSON BRIDGE HORIZONTAL CONTROL
GEOMETRONICS CONTROL FILE #88-015
FOR OREGON DEPARTMENT OF TRANSPORTATION
REGION 3

DATE OF SURVEY: 7 - 22 - 98	DRAWN BY: WBA	KEY NO.: 02888	SHEET	OF
	CHECKED BY: JDB		3	3

4-99
KR
99-428