

N.W. 1/4 SEC. 28, T. 11 S., R. 43 E., W.M. (R 489)
 S.W. 1/4 SEC. 2, T. 12 S., R. 43 E., W.M. (POTEB1400)
 S.E. 1/4 SEC. 13, T. 12 S., R. 43 E., W.M. (PI151)
 S.E. 1/4 SEC. 19, T. 12 S., R. 44 E., W.M. (254 RES)
 N.E. 1/4 SEC. 30, T. 12 S., R. 44 E., W.M. (POTE11)

N.W. 1/4 SEC. 4, T. 13 S., R. 44 E., W.M. (DIX)
 N.W. 1/4 SEC. 15, T. 13 S., R. 44 E., W.M. (107)
 N.E. 1/4 SEC. 27, T. 13 S., R. 44 E., W.M. (103)
 N.E. 1/4 SEC. 3, T. 14 S., R. 44 E., W.M. (8092)
 S.W. 1/4 SEC. 16, T. 15 S., R. 42 E., W.M. (U 701)

MONUMENT INFORMATION
 GRID COORDINATES ARE OREGON COORDINATE SYSTEM NORTH ZONE
 HORIZONTAL DATUM IS NAD83(1998)
 VERTICAL DATUM IS NAVD88
 ALL LINEAR VALUES ARE EXPRESSED IN FEET.
 VALUES MARKED WITH AN ASTERISK (*) WERE HELD
 ORIENTATION AZIMUTHS ARE EXPRESSED IN WHOLE DEGREES TO THE RIGHT FROM LOCAL GEODETIC NORTH.
 CONVERGENCE ANGLES FROM GEODETIC NORTH TO GRID NORTH ARE EXPRESSED IN DEGREES, MINUTES, AND SECONDS IN THE CLOCKWISE DIRECTION.
 REFERENCE ELLIPSOID IS WGS84
 GEOID SEPARATIONS ARE BASED ON GEOID03

STATION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELL. HT.	GEOID-SEP	ORTH. HT.
103	287490.886	9036005.967	44 24 36.12050	117 18 28.93467	2184.519	-55.833	2240.351
PI151	327890.221	9012265.136	44 31 23.89438	117 23 34.35281	2452.905	-55.441	2508.346
107	299547.646	9030847.716	44 26 37.09369	117 19 33.41724	2242.569*	-55.697	2298.265
8092	276841.006	9037814.798	44 22 50.33029	117 18 09.84000	2164.915*	-56.053	2220.968
DIX	310035.717	9026938.390	44 28 22.09595	117 20 21.60867	2280.779	-55.566	2336.345
POTE11	318541.530	9019085.138	44 29 49.04580	117 22 05.28662	2350.293*	-55.478	2405.771
POTEB1400	336317.503	9004764.961	44 32 49.88734	117 25 13.37116	2529.654*	-55.477	2585.131
R 489	347020.358	8994730.219	44 34 39.25519*	117 27 26.27706*	2570.610*	-55.610	2626.221
U 701	229604.147	8966328.105	44 15 30.91554*	117 34 56.99977*	2947.421	-57.351	3004.772
X 254 RES	322405.721	9017892.378	44 30 27.63195	117 22 19.66715	2403.944*	-55.436	2459.380

STATION	<----- 95% CONFIDENCE REGIONS ----->				CONVERGENCE	PROJECTION S.F.	COMBINED S.F.
	SEMI-MAJ	SEMI-MIN	ORIENT.	HEIGHT			
103	0.020	0.015	14	0.032	-2 15 49	0.99998157	0.99987709
PI151	0.011	0.007	-22	0.016	-2 12 13	0.99995758	0.99984026
107	0.018	0.013	0	0.000	-2 15 04	0.99997405	0.99986679
8092	0.015	0.013	-15	0.000	-2 16 04	0.99998842	0.99988488
DIX	0.018	0.013	-7	0.000	-2 14 30	0.99996780	0.99985872
POTE11	0.013	0.009	-03	0.000	-2 13 16	0.99996281	0.99985041
POTEB1400	0.018	0.012	-17	0.000	-2 11 03	0.99995301	0.99983203
R 489	0.000	0.000	-28	0.000	-2 09 28	0.99994744	0.99982451
U 701	0.000	0.000	-28	0.045	-2 04 09	1.00001966	0.99987869
X 254 RES	0.013	0.009	-6	0.000	-2 13 06	0.99996066	0.99984569

SURVEY NARRATIVE

THIS SURVEY WAS PERFORMED FOR AND AT THE REQUEST OF CURTIS STOCKHOFF, REPRESENTING REGION 5 OF THE OREGON DEPARTMENT OF TRANSPORTATION. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH COORDINATES FOR FOUR EXISTING MONUMENTS AND FOUR NEW MONUMENTS. GPS OBSERVATIONS WERE TAKEN FROM TWO COOPERATIVE BASE NETWORK CONTROL STATIONS, "R 489" (PIDQB0516) AND "U 701" (PIDQB1158) A MINIMUM OF TWO OBSERVATIONS WERE TAKEN TO ALL STATIONS

THE GPS PORTION OF THIS SURVEY WAS COMPLETED IN FEBRUARY, 2005. GPS SESSIONS WERE OBSERVED USING THREE LEICA SYSTEM 500 DUAL FREQUENCY GPS RECEIVERS, MODEL SR530, ANTENNA MODEL AT502 AND TERMINAL MODEL TR500. THE SYSTEM 500 HAS A STATED ACCURACY SPECIFICATION OF FIVE MILLIMETERS PLUS ONE PART PER-MILLION WHEN USED IN STATIC OR RAPID STATIC POST-PROCESSING MODE.

ANALYSIS AND ADJUSTMENT PROCEDURES ARE SUMMARIZED AS FOLLOWS. THE HORIZONTAL POSITIONS FOR THE SURVEY ARE BASED ON REFERENCE ELLIPSOID WGS84 AND NAD83(1998) PUBLISHED VALUES FOR THE STATIONS. DESCRIBED ABOVE. ORTHOMETRIC HEIGHTS WERE ESTABLISHED TO POINTS 107, 8092, DIX, PI151, POTE11, POTEB1400, USING DIFFERENTIAL LEVELS. ALL OTHER ORTHOMETRIC HEIGHTS WERE BY GPS-OBSERVATIONS CONSTRAINED TO GEOID03 BY CONSTRAINING VERTICALLY TO THE INDICATED STATIONS. ALL POST PROCESSING INCLUDING CONVERSION TO BOTH ORTHOMETRIC HEIGHTS AND THE OREGON COORDINATE SYSTEM WAS COMPLETED USING VERSION 3.0 OF LEICA SKI PRO SOFTWARE. SKI PRO CALLS A THIRD PARTY LEAST SQUARES ROUTINE AS "MOVE 3" VERSION 3.2.2. AN ADJUSTMENT WAS APPLIED TO A NETWORK OF 31 BASELINES. DURING THE FINAL ADJUSTMENT STATIONS "R 489" (PIDQB0516) AND "U 701" (PIDQB1158) (WERE HELD HORIZONTALLY AND THE DIFFERENTIALLY LEVELED POINTS LISTED ABOVE WERE HELD VERTICALLY.

POSITIONAL ACCURACIES PUBLISHED ARE RELATIVE TO THE FIXED POINTS AND ARE STATED AT A 95% CONFIDENCE LEVEL. SUPPORTING DATA FOR THIS SURVEY IS LOCATED IN FILE 13982 OF THE ODOT GEOMETRONICS UNIT, SALEM, OREGON.

FILED March 14, 2007
 BAKER COUNTY SURVEYOR
 SURVEY NO. 11-43-15
 12-43-12
 12-44-2
 13-44-14
 14-44-36
 15-42-1

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

J. David Brinton
 OREGON
 DECEMBER 2, 1983
 J. DAVID BRINTON
 2065

EXPIRES 12/31/2007

OREGON DEPARTMENT OF TRANSPORTATION

1-84 BURNT RIVER CANYON SAFETY
 OLD OREGON TRAIL HIGHWAY
 HIGHWAY #6
 BAKER COUNTY, OREGON

ODOT GEOMETRONICS UNIT
 200 HAWTHORNE AVE. S.E.
 SALEM, OREGON 97301-5193

FEBRUARY 2005
 NOT TO SCALE
 SHEET 2 OF 3