

NE 1/4 SEC. 13, T. 26 S., R. 6 W., W.M. (11851-3)

SE 1/4 SEC. 25, T. 26 S., R. 6 W., W.M. (11851-2)

SE 1/4 SEC. 1, T. 27 S., R. 6 W., W.M. (ROSE CBL 1440)

NE 1/4 SEC. 24, T. 26 S., R. 6 W., W.M. (AKIN 2)

NW 1/4 SEC. 36, T. 26 S., R. 6 W., W.M. (11851-1)

LOCATED IN DOUGLAS COUNTY, OREGON

FILED  
Date: 2/6/2004 By: JP  
This survey consists of: 4 SHRS.  
Map: M143-67B  
Narrative:  
Corner Rpt:  
DOUGLAS COUNTY  
SURVEYOR

SURVEY NARRATIVE

THIS SURVEY WAS PERFORMED FOR AND AT THE REQUEST OF CHRIS BLEVINS REPRESENTING GEOMETRONICS REGION 3 OF THE OREGON DEPARTMENT OF TRANSPORTATION. THE PURPOSE OF THIS SURVEY IS TO ESTABLISHING COORDINATES FOR POINTS 11851-1, 11851-2, 11851-3. POINT AKIN 2 IS AN EXISTING 3 INCH BRASS DISK AND ROSE CBL 1440 IS AN EXISTING NGS SURVEY DISK.

THE GPS PORTION OF THIS SURVEY WAS COMPLETED IN MAY OF 2003. GPS SESSIONS WERE OBSERVED USING THREE LEICA SYSTEM 500 DUAL FREQUENCY GPS RECEIVERS MODEL SR 530 AND ANTENNA MODLE 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-PROCESSED MODE.


THE FIELD PROCEDURES ARE SUMMARIZED AS FOLLOWS. ODOT STAFF SET THREE NEW BRASS DISK IN CONCRETE. TWO EXISTING MONUMENTS WERE USED IN THE VICINITY OF THE PROJECT. THE THREE NEW STATIONS ARE 11851-1, 11851-2, 11851-3. NEW COORDINATES ARE ESTABLISHED ON 11851-1, 11851-2, 11851-3.

STATIC TIES WERE MADE TO THE PROJECT FROM ONE HIGH ACCURACY REFERENCE STATION AND ONE ODOT MONUMENT. EACH OF THE STATIONS IN THE GPS NETWORK WERE OCCUPIED TWO OR MORE TIMES. ODOT GEOMETRONICS STAFF COMPLETED ALL GPS OBSERVATIONS.

ANALYSIS AND ADJUSTMENT PROCEDURES ARE SUMMARIZED AS FOLLOWS. THE HORIZONTAL POSITIONS FOR THE SURVEY ARE BASED ON REFERENCE ELLIPSOID WGS84 AND NAD83 (1991) PUBLISHED VALUES FOR OREGON HARN STATION ROSE CBL 1440. ELEVATIONS ARE BASED ON NAVD 88 PUBLISHED VALUES. ALL ORTHOMETRIC HEIGHTS WERE ESTABLISHED USING THE GPS DATA AND THE GEOID99 MODEL BY CONSTRAINING VERTICALLY TO THE INDIDATED STATIONS.

ALL POST PROCESSING INCLUDING CONVERSION TO BOTH ORTHOMETRIC ELEVATIONS AND THE OREGON COORDINATE SYSTEM WAS COMPLETED USING VERSION 2.0 OF LEICA SKI PRO SOFTWARE. SKI PRO VERSION 2.0 CALLS A THIRD PARTY LEAST SQUARES ADJUSTMENT ROUTINE IDENTIFIED AS 'MOVE 3' VERSION 3.0.2. AN ADJUSTMENT WAS APPLIED TO A NETWORK OF 12 TOTAL BASELINES. DURING THE FINAL ADIUSTMENT, STATIONS AKIN 2 AND ROSE CBL 1440 WERE HELD HORIZONTALLY AND 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 CONTROL FILE 03-011 OF THE ODOT GEOMETRONICS UNIT, SALEM OREGON.

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
*J. David Brinton*  
OREGON  
DECEMBER 02, 1983  
J DAVID BRINTON  
2065  
EXPIRES 12/31/2005

<b>METRIC SURVEY</b>		<b>OREGON DEPARTMENT OF TRANSPORTATION</b>	
		GEOMETRONICS UNIT 200 HAWTHORNE AVE. SE, # B-250 SALEM, OR 97301-5193 (503)986-3103; FAX (503)986-3548	
<b>GEODETIC SURVEY REPORT</b> N UMPQUA RIVER (OLD WINCHESTER) I-5 EXIT 129 WINCHESTER BRIDGE ALSO KNOW AS PACIFIC HIGHWAY 001 GEOMETRONICS CONTROL FILE 03-011 FOR OREGON DEPARTMENT OF TRANSPORTATION REGION 3			
COUNTY : DOUGLAS	DRAWN BY: L POTTS	KEY # : 11851	SHEET OF
SURVEY DATE: 08-20-03		FILE NAME: 11851GPS.DGN	2 4

MAP FILE M143-67B

MAP FILE M143-67B