

98021

Doc 3/7 PAGE 40

ENGINEERING REPORTS

BUILDING DESIGN

LAND SURVEYS

CONSULTING

**Engineers**

TENNESON ENGINEERING CORPORATION

PHONE (503) 296-9177

409 LINCOLN STREET

THE DALLES, ORE. 97058

Work Order No. 6501

FIELD NOTES

CREW: David L. Tuttle, Party Chief  
Robert L. Ulrich, Assistant  
Steven Rohde, Assistant

REFERENCES: G.L.O. Plat of Township  
Survey by Washington State Department of Natural  
Resources, Sections 12 and 13, T. 3 N., R. 7 E.  
in October, 1978  
Survey by Bert Mason, T. 3 N., R. 7 E., W.M., in  
December, 1966  
D.N.R. and Skamania County corner reference cards  
Sections 12 and 13, T. 3 N., R. 7 E.  
Survey by Bert Mason for Crown Zellerbach in 1964

DATE COMPLETED: July 28, 1984

In December, 1983, Tenneson Engineering Corporation was retained by Crown Zellerbach Corporation to establish, post, and flag the north-south centerline, Section 13 and to establish, post, and flag boundaries of subdivisional lines in Section 12, T. 3 N., R. 7 E., W.M., Skamania County, Washington.

Work was initiated by making a search to locate the previously identified corners which formed the basis of the survey. The following were found:

Corner N-23, South Quarter Corner, Section 13, Skamania County  
brass cap as per reference card.

Corner J-23, South Quarter Corner, Section 12 is an old fir stump  
with a DNR concrete monument two feet north as per D.N.R. land  
record card.

Corner J-25, Southeast Corner, Section 12, D.N.R. concrete monument  
stamped brass disc as per corner record card.

Corner J-21, Southwest Corner, Section 12, D.N.R. monument as per  
corner card.

Corner G-21, West Quarter Corner, Section 12, Skamania County  
brass cap monument as per land record card.



FIELD NOTES - W.O. #6501

Page 2.

Corner G-25, East Quarter Corner, Section 25, D.N.R. concrete monument with stamped cap as per land record card.

Corner E-21, Northwest Corner, Section 12, D.N.R. monument as per reference card.

Corner E-23, North Quarter Corner, Section 12, Skamania County brass cap monument and remains of original bearing tree stump North  $33\frac{3}{4}$  degrees East 159.7 feet; 14 inch fir bearing tree established South 8 degrees East 21.2 feet; 14 inch fir bearing tree established North 24 degrees West 16.1 feet.

Corner E-25, Northwest Corner, Section 12, found D.N.R. concrete monument with cap as per land corner record card.

In addition to the found monuments within Section 12, additional corners were found along the range line between Range 7 and 7-1/2 East as per the D.N.R. corner cards for this section, being the offset corner between 12 and 13 on Range 7-1/2 E., a found D.N.R. monument and the line trees on either side of said monument used to establish the monument position, the West Quarter Corner of section 12, Range 7-1/2 East, being a D.N.R. monument as per the corner cards and references and the witness point to the Northeast Corner of Section 12, Range 7 East, lying 210.91 feet South of the actual corner position, witness point being the D.N.R. monument as per the D.N.R. survey maps.

With the necessary monuments found to establish the section exterior and breakdown, traverses were run from the South One-quarter Corner of Section 13 along the existing road to an intersection with the North line of Section 13; thence West on a random basis to the North One-quarter Corner of Section 13. An inverse was computed between the two corners and the true line cut through and posted and flagged to form a closure.

Similar traverses were run connecting all the exterior corners of Section 12 in a closed traverse pattern. In areas where the lines were to be posted, the traverse was run as near as practical to the actual lines. In other areas, the line of least resistance down roads and clearings was followed.

All traverses closed within an accuracy of one in 5,000 or better.

From the Southeast Corner of Section 12 to the East One-quarter Corner, the traverse closure was made along the computed true line. Other area offsets were then computed to the true line and the proper posting and flagging marks set.

In areas where previous surveys indicated distance of record, we were able to check all such dimensions rather closely with the single exception of the dimension from the Southeast Quarter of Section 12 North to the first line tree. The Department of Natural Resources

98021

Doc. 3/1 PAGE 42

FIELD NOTES - W.O. #6501

Page 3.

indicated a measured distance of 748.59 feet. Our record distance was 745.17 feet. We double chained the distance to verify the shortage.

The sectional breakdown was computed based on the G.L.O. resurvey plat with the South One-half of the Section being regular and the North One-half being irregular and broken into Government Lots. Method of proportioning is shown on the attached survey plat, Tenneson Engineering Corporation Work Order No. 6501, which by reference is made a portion of these notes. Angular measurements were Wild T-16 transit; distance measurements with a Wild DS4 distance meter. Computations run on a Wang 2200 series computer using Ceads software as manufactured by Holquin & Associates of El Paso, Texas. Bearings for the survey were rotated to conform to the Washington South Zone grid coordinate bearings used by Washington D.N.R. along the common range line between ranges 7 and 7-1/2 East in the area where the survey was done, using the section of line between the East One-quarter and Northeast Corner of Section 12 as the reference line. It is noted the Northeast Corner of Section 12 is extremely rough and steep going down into a steep, rocky canyon, accessed by foot only.

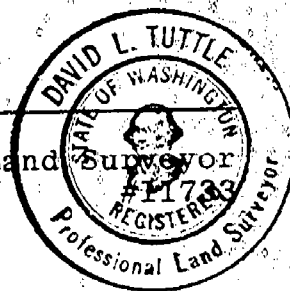
Respectfully submitted,

TENNESON ENGINEERING CORPORATION

*David L. Tuttle*

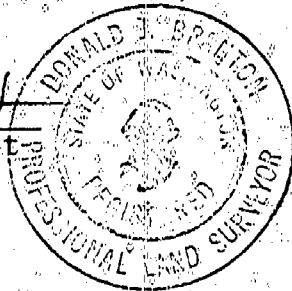
David L. Tuttle

Registered Washington Land Surveyor



CHECKED AND APPROVED:

*Donald J. Branton*  
Donald J. Branton, President



STATE OF WASHINGTON ) ss  
COUNTY OF )  
I HEREBY CERTIFY THAT THE WITHIN  
INSTRUMENT OF LAND WAS FILED BY  
TENNESON ENGINEERING CORP  
OF THE VALLES, OR  
AT 2:05 PM AUG 9, 1984  
WAS FILED - 3/7  
RECORDS  
COUNTY CLERK  
COUNTY CLERK