

- SET 1" IRON PIPE WITH BRASS CAP
- SET FENCE POST ON LINE

SURVEY BY OLSON ENGINEERING
FOR LONGVIEW FIBRE, CO.
IN SEC. 29, T5N, R3N, W.M.

SURVEY BY OLSON ENGINEERING
FOR LONGVIEW FIBRE, CO.
IN SEC. 32, T5N, R3W, W.M.



BASIS OF BEARING WAS BY
OBSERVATION OF POLARIS

NOTE:
ALL R.P.'S ARE A RAILROAD
SPIKE SET AT THE BASE OF
THE TREE WITH 3 BLAZES.

COUNTY SURVEYOR

RECEIVED 8-2-82

FILED 8-2-82

PRELIMINARY



OLSON ENGINEERING

1111 BROADWAY, VANCOUVER, WASH.
PH. (206) - 695-1385

1 KANAKA CR. RD., STEVENSON, WASH
WA. (509) 427-2444

Scale 1" = 400' Date _____
Job No 2760 Calc. By BT
Drawn By RL
Checked By _____
Sheet 1 of 3

M-3

NARRATIVE

24 19

FOUND 2 BT PATTERN. BOTH BT'S WERE BLOWDOWNS AND ONE WAS BADLY BURNED IN THE AREA WHERE THE FACE WOULD HAVE BEEN. ON THE BT IN THE NW QUADRANT WE SAWED OUT A COMPLETE OVERGROWN FACE AND NOTCH VERY SIMILAR TO THE ONE FOUND AT THE N 1/4 CORNER OF SEC. 30. THERE WAS EVIDENCE OF SCRIBING BUT MOST OF IT APPEARED TO HAVE BEEN CHOPPED OFF THERE WERE 250 YEARS OF OVERGROWTH ON THE FACE AND THE STAND OF TIMBER NOW IS 50 YEARS OLD. SINCE THE COMPLETE TREES ARE STILL ATTACHED, IT IS ASSUMED THAT THE TREES WERE BLOWN DOWN WELL BEFORE THE AREA WAS LOGGED. THIS DATES THESE MARKS VERY NEAR THE TIME OF THE ORIGINAL SURVEY. WE DUG FOR THE ORIGINAL POST BUT FOUND NONE. PROBABLY DUE TO THE FACT THAT IT WAS SO CLOSE TO ONE OF THE BLOWN DOWN TREES. FROM THE SET CORNER WE FOUND THE FOLLOWING:
N 47°W 26' (GLO: N 47°W 26') FND. 48" FIR BLOWDOWN. WHOLE TREE IS STILL ATTACHED. CUT OUT ENTIRE FACE WITH AX MARKS, NOTCH, AND A PIECE OF SCRIBING. ESTIMATED ORIGINAL POSITION OF TREE.
N 30°E 25' (GLO: N 30°E 25') FND. 40" FIR BLOWDOWN. WHOLE TREE IS STILL ATTACHED. TREE IS BADLY BURNED AND ROTTEN. ESTIMATED ORIGINAL POSITION OF TREE.
THIS CORNER APPEARS LIKE A CORNER THAT HAD THE MARKS OBSERVED BY THE ORIGINAL SURVEYOR. THE CORNER FITS ALL THE TOPOGRAPHY CALLS NORTH AND SOUTH AND FITS THE TREES CALLED IN THE NOTES. A WIDE SEARCH IN THE AREA REVEALED NO OBVIOUS MARKING OF ANOTHER CORNER. THE EVIDENCE INDICATES THAT THIS IS THE CORNER DESCRIBED IN THE ORIGINAL NOTES.
PHOTOS ON FILE

24 19
25 30

SEARCHED FOR AND NOT FOUND. CALCULATED BY SINGLE PROPORTION. FOUND A 1 1/2" I.P. N 65°03' 34"E 10.43' FROM SET 1" I.P. WITH BRASS CAP. THE OLD COUNTY ROAD TIES PLACE THE CORNER WITHIN 25' OF OUR CALCULATED POSITION, BUT DUE TO THE DIFFICULTY OF DETERMINING THE EXACT Q. OF THE PROPOSED R/W IN RELATION TO THE EXISTING ROAD WE SET THE CORNER BY SINGLE PROPORTION.

25 30

FOUND 1 BT AND THE REMAINS OF THE OTHER IN THE FORM OF A STUMP HOLE AND ROOTS. NO SCRIBING VISIBLE ALTHOUGH A NOTCH WAS EVIDENT AT THE BOTTOM OF THE FACE. THE FACE POINTS S 58°W INSTEAD OF N 87°W. WE DUG FOR THE ORIGINAL POST AT BOTH POSITIONS WITHOUT ANY LUCK. THIS FACE WAS VERY SIMILAR TO THE ONE FOUND AT THE N 1/4 CORNER OF SEC. 19, T5N, R3W. FROM THE SET CORNER WE FOUND THE FOLLOWING:
S 58°W 16.5' (GLO: S 58°W 16.5') FND. STUMP HOLE WITH ROOTS OF FIR;
S 87°E 18.5' (GLO: S 87°E 18.48') FND. 36" FIR STUMP WITH A BURNED FACE DATING TO NEAR THE TIME OF THE ORIGINAL SURVEY. THERE WAS A NOTCH AT THE BOTTOM OF THE FACE BUT NO SCRIBING. THE FACE POINTED S 60°W.
PHOTOS ON FILE

25 30
36 31

SEARCHED FOR VINEAPPLE CLUMPS THAT WOULD FIT A PATTERN BUT NOT FOUND. CALCULATED BY SINGLE PROPORTION.

36 31

FOUND 1 BT IN THE SW QUADRANT. FOUND POSSIBLE ORIGINAL POST HOLE (3 1/2" BY 36" TAPERING TO A POINT) AND A PORTION OF THE SQUARED OFF POST AT GLO BEARING AND DISTANCE FROM FOUND BT. NO SCRIBING OR FACE VISIBLE. THERE ARE 3 MAPLES (POSSIBLE RESPROUTS) AT THE POSITION OF THE MAPLE CALLED S 17°E IN THE GLO NOTES. FROM THE SET CORNER WE FOUND THE FOLLOWING:
S 17°E 22.4' (GLO: S 17°E 22.44') FND. CLUMP OF 3 MAPLES;
S 65°W 13.9' (GLO: S 65°W 13.86') FND. 84" FIR STUMP. STUMP WAS GREEN WHEN CUT 150 YEARS AGO. NO SCRIBE OR FACE APPARENT. BARK FACING CORNER WAS GONE.
PHOTOS ON FILE

SC
36 31

SEARCHED FOR AND NOT FOUND. CALCULATED BY SINGLE PROPORTION. THIS AREA IS MARSHY AND THERE ARE A LOT OF RECENT AND OLDER WINDFALLS INDICATING THAT THIS IS A COMMON OCCURRENCE IN THIS AREA. THIS IS PROBABLY WHY WE COULD NOT FIND A PATTERN. WE FOUND A 1" I.P. NORTH 60°39' AND WEST 96°51' FROM CALL. POSITION. WE SEARCHED FOR A PATTERN GLO OFF OF BOTH I.P.'S AT THE CLOSING CORNER BUT FOUND NOTHING. AT A POINT S 02°E 51.6' FROM THE I.P. NOTED ABOVE WE FOUND 3 STUMPS THAT FIT IF ERRORS ARE ASSUMED IN SIZE, SPECIES, BEARING AND DISTANCE TO VARIOUS PARTS OF INFORMATION GIVEN IN THE GLO NOTES. THIS IS THE CLOSEST PATTERN OFF OF A CARDINAL POSITION FROM THE CLOSING CORNER. WE DUG FOR ROOTS OFF OF EACH STUMP AT THE GLO POSITIONS. WE SEARCHED AT THE PROPORTION POSITION AND FOUND THE SAME TYPE OF PATTERN AS DESCRIBED ABOVE WITH A NUMEROUS ERRORS AT A POINT N 74°W 16.4 FEET. WE SEARCHED AT A POSITION GLO RECORD BEARING AND DISTANCE FROM THE N 1/4 CORNER OF SEC. 31 AND FOUND THE SAME TYPE OF PATTERN N 46°W 18.2 FEET. FROM THIS IT IS OBVIOUS THAT IN A TYPICAL FOREST SETTING IT IS POSSIBLE TO COME UP WITH SEVERAL PATTERNS IF ENOUGH ASSUMPTIONS OF ERRORS ARE MADE. IN SOME SITUATIONS IT MAY BE OBVIOUS THAT ERRORS WERE MADE AND WHAT THEY WERE. AN EXAMPLE IS THE CLOSING CORNER JUST TO THE EAST. WE DUG FOR POSTS AND THE OTHER BT'S OFF OF EACH OF THE TREES IN THESE PATTERNS BUT FOUND NONE. DUE TO THE FACT THAT WE HAD AT LEAST 3 PATTERNS OF QUESTIONABLE VALIDITY WE FELT THAT THE ONLY SOLUTION WAS A SINGLE PROPORTION. THE RAILROAD SURVEY IN THE AREA SHOWS THE CORNER TO BE CLOSE TO GLO BEARING AND DISTANCE FROM THE CLOSING CORNER. IT IS NOT CLEAR HOWEVER, WHETHER THE SURVEYOR IS USING THE I.P. FOUND AT THE CLOSING CORNER OR THE TRUE CORNER AS WE HAVE MONUMENTED IN THIS SURVEY. DUE TO THE FACT THAT NO TREES MATCH THIS POSITION, WE ARE NOT SURE WHAT THE RAILROAD FOUND (CONTINUED)

(CONTINUED)
OR WHICH CLOSING CORNER HE USED. WE DID NOT FEEL WE COULD GIVE THE RAILROAD NOTES MUCH MORE THAN THE STANDARD PARALLELS WERE GENERALLY RUN WITH MORE CARE AND GREATER ACCURACY THAN THE INTERIOR SECTION LINES AND THEREFORE THE BEARINGS AND DISTANCES OF THE STANDARD PARALLEL SHOULD BE REASONABLY CLOSE TO CARDINAL AND GLO DISTANCE. A SINGLE PROPORTION BETWEEN THE TWO ROWN CORNERS IS VERY CLOSE TO CARDINAL AND DISTANCE. ANY SOLUTION USING THE CLOSING CORNER FOR NOTHING WOULD PUT A VERY LARGE BEARING ERROR IN THE STANDARD PARALLEL. USING THE CLOSING CORNER FOR THE EASTING WOULD PUT A VERY LARGE DISTANCE ERROR IN THE STANDARD PARALLEL. FOR THESE REASONS WE FOUND THE TOWNSHIP CORNER TO BE LOST AND RE-ESTABLISHED IT BY SINGLE PROPORTION. ADJUSTED FOR THE CURVATURE OF THE ARC OF LATITUDE. PHOTOS ON FILE

CC
31
31

SET 1" I.P. WITH BRASS CAP AT ORIGINAL GLO POSITION FOR CLOSING CORNER. WE DID NOT DETERMINE OR MONUMENT THE TRUE POSITION ON THE STANDARD PARALLEL. FROM SET 1" I.P. WE FOUND A 1" I.P. NORTH 24°59' AND WEST 5°94'. THE FOUND I.P. WAS SET GLO BEARING AND DISTANCE FROM A FIR STUMP WITH A FULLY SCRIBED GLO FACE. TWO OTHER STUMPS WERE SCRIBED AS R.P.'S BY A COUNTY SURVEYOR IN THE PAST. HOWEVER NO OTHER BT'S WERE FOUND OFF THIS I.P. A CAREFUL SEARCH OF THE AREA DISCOVERED THAT IF A BEARING-DISTANCE-QUADRANT TRIANGULATION WERE MADE OFF THE ONE FOUND BT, TWO OTHER STUMPS WOULD MATCH WITHIN CLOSE TOLERANCES. ONE OF THESE STUMPS (A 36" FIR THEN A 15" CEDAR) WHEN OPENED UP REVEALED A NOTCH AND SCRIBED "BT" DATING TO THE ORIGINAL SURVEY. FROM THE SET CORNER WE FOUND THE FOLLOWING:
(GLO: S 60°W 18.48' 28 LKS.) FND. FIR STUMP, FAIRLY ROTTEN. NO FACE OR SCRIBING.
(GLO: S 10°W 18.48' 28 LKS.) FND. FIR STUMP, SOMEWHAT ROTTEN. CUT INTO STUMP AND FOUND BOTTOM HALF OF ORIGINAL FACE WITH NOTCH AND SCRIBED BT. THERE WAS ENOUGH OVERGROWTH ON STUMP TO DATE IT NEAR THE TIME OF ORIG. SURVEY. COUNTY SURVEYOR REF. TREE SCRIBING WAS ON REVERSE SIDE (GLO: S 10°E 54.78' 83 LKS.) FND. FIR STUMP CUT HIGH. ACTUALLY A DOUBLE STUMP. CUT OPEN STUMP AND FOUND ENTIRE GLO FACE, NOTCH AND SCRIBING. FACE POINTS S 83°W WHICH WAS CLOSE TO LOOK IN THAT VICINITY.

30
31

CALCULATED BY SINGLE PROPORTION. SAWED INTO THE CEDAR STUMPS IN THE AREA BUT FOUND NO EVIDENCE OF THE CORNER. WE DUG FOR HEMLOCK REMAINS AND ORIGINAL POST OFF OF CEDARS WHICH FIT A POSITION GLO FROM THE EAST SINCE THIS FITS THE CREEK CALL TO THE EAST. FOUND NO EVIDENCE OF HEMLOCK OR POST.

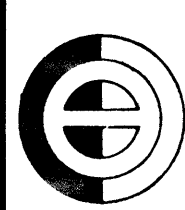
SC
31

CALCULATED BY SINGLE PROPORTION ADJUSTED FOR CURVATURE OF THE ARC OF LATITUDE. SEARCHED AREA FOR STUMP PATTERN AND FOUND NONE THAT FIT WELL ENOUGH TO USE. AT S 84°E 11.2 FEET FOUND A 2" STUMP PATTERN THAT FIT TO WITHIN 5 FEET. AT S 14°E 34.0 FEET FOUND A 2" STUMP PATTERN THAT FIT TO WITHIN 1.3 FEET. HOWEVER, THE SIZES WERE REVERSED AND THE NORTHERLY BT WAS A FIR (GLO: CEDAR). THE CREEK CALL TO THE WEST WOULD PLACE THE CORNER 50 FEET WEST. DETERMINED THE WAS NO EVIDENCE SUFFICIENT TO USE TO SET THE CORNER AND FIND THAT IT IS LOST. FOUND OLD CEDAR POST SCRIBED "1/4" ON NORTH SIDE NORTH 35°E AND EAST 60°E. FOUND 1" I.P. WITH LEAD CAP STAMPED S 1/4 SEC 31 NORTH 35°E AND WEST 93°E.
PHOTOS ON FILE

COUNTY SURVEYOR
RECEIVED 8-2-82
FILED 8-2-82

PRELIMINARY

PROJECT: THE SURVEY WAS DONE AT THE REQUEST OF THE LONGVIEW FIBRE COMPANY FOR A PORTION OF THE SOUTH 1/2 OF SEC. 30 AND THE NW 1/4 OF SEC. 31, T5N, R3W, N.M.
PERSONNEL: JERRY OLSON, BRUCE TOWLE, TERRY GOODMAN, DAVE SIMES, BOB DUERR AND RICK CENTEN.
EQUIPMENT USED: T-2, T-16, HP 3820, AND HP 3810A.
TRAVERSE CLOSURE: RANGED FROM 1:10000 TO 1:60000
DATES: OCTOBER, 1981 TO
BASIS OF BEARING: OBSERVATION OF POLARIS

 OLSON ENGINEERING 1111 BROADWAY, VANCOUVER, WASH. PH. (206) - 695-1385 1 KANAKA CR. RD., STEVENSON, WASH. PH. (509) - 427-8411	Scale _____ Date _____ Job No. 2760 Calc. By BT Drawn By RL Checked By _____ Sheet 2 of 3
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FOUND PIECE OF CAST IRON FOR CORNER AND PIECE OF CAST IRON EAST 5 FEET AS DESCRIBED BY W.N. MESERVE IN 1895. FOUND 1 1/2" I.P. BENT OVER WEST OF CORNER (STRAIGHTENED UP). WEST EDGE OF NEHALEM RIVER IS WEST 766' OF CORNER (GLO-165). THIS CORNER WAS TIED FOR INFORMATIONAL PURPOSES BY DOUBLE HUB TRAVERSE FROM 4 MILES AWAY AT BAKER POINT AND WAS NOT USED TO SET CORNERS.

FOUND ONE ORIGINAL GLO BT (N22°E) AND 3 COUNTY SURVEYOR BT'S. WE PULLED GLO BEARING AND DISTANCE FROM THE ORIGINAL BT AND SHAVED THE GROUND LOOKING FOR THE POST. FOUND A 3/4" PIECE OF CHARCOAL THAT APPEARED TO BE THE TIP OF THE ORIGINAL POST 20" BELOW GROUND. THIS POINT WAS WITHIN 0.25' OF WHERE THE VARIOUS BT'S WOULD PUT IT. SET 1" I.P. WITH BRASS CAP WHERE CHARCOAL WAS FOUND FROM WHICH WE FOUND THE FOLLOWING:
 N 22°E 22.06' (GLO=N 23°E 22.44') FND. 50" FIR STUMP WITH 3 NOTCHES IN BARK IN A PYRAMID PATTERN (-). THE NOTCHES WERE ABOUT 6" LONG AND ABOUT 12" APART.
 S 73°E 19.95' (MESERVE S 74°E 20.1') FND. 54" FIR STUMP WITH FACE AND SCRIBE MARKS. FACE HAS BEEN BURNED.
 N 53°W 41.45' (MESERVE N 52°35'W 41.6') FND. 16" FIR STUMP WITH OVERGROWN FACE. DID NOT CHOP OUT.
 S 49°W 31.69' (MESERVE S 49°25'W 31.7') FND. 30" CEDAR STUMP WITH FACE AND SCRIBED "BT". THERE IS 5" OF OVERGROWTH.
 GLO CEDAR BT GONE (IN OLD SKID TRAIL)
 PHOTOS ON FILE

A SEARCH AREA FOR THIS CORNER WAS ESTABLISHED BY DETERMINING CARDINAL BEARING AND DISTANCE FROM THE SE CORNER OF SECTION 31, T34N, R34W, CARDINAL BEARING AND DISTANCE FROM THE S 1/4 CORNER OF SECTION 35, T34N, R44W, AND THE SINGLE PROPORTION POSITION BETWEEN THESE TWO FOUND CORNERS. THIS ESTABLISHED A SEARCH AREA OF A 200 FOOT CIRCLE ROUGHLY CENTERED ON THE SINGLE PROPORTION POSITION. THE FIRST CREEK CALLS EAST AND WEST WOULD TEND TO PUT THE CORNER IN THE NORTHERN PORTION OF THE SEARCH AREA. A TWO STUMP PATTERN WAS FOUND SOUTH 62.82' AND WEST 61.29' OF THE SINGLE PROPORTION POSITION. AN E-W OLD FENCE IS SOUTH 3' FROM THIS POSITION. THE PATTERN FIT ± 0.5 FEET. THE BARK ON THE 24" STUMP S 25°W HAD BEEN SMOOTHED OFF LONG AGO BUT IT APPEARED TO HAVE BEEN DONE AFTER THE AREA HAD BURNED SINCE THE REST OF THE BARK WAS BURNED BUT NOT THE SMOOTHED AREA. THE STUMP N 30°W WAS TOO ROTTEN TO HAVE MARKS AND NOW IS A 24" STUMP INCLUDING BARK. (GLO=30" FIR). THE ONLY OTHER TWO STUMP PATTERN WAS FOUND SOUTH 23.57' AND WEST 27.91' OF THE SINGLE PROPORTION POSITION. THE PATTERN FIT ± 2.3 FEET. SIZES WERE CORRECT. EXAMINATION OF THE STUMP S 25°W REVEALED AN OVERGROWN HORIZONTAL NOTCH ABOUT 3 INCHES LONG, 1 1/2" HIGH AND 1" DEEP. NO OTHER AX WORK WAS VISIBLE ON THE STUMP. THERE WAS 30 YEARS COUNTABLE GROWTH RINGS OVER THE NOTCH AND SOME HAD SLOUGHED OFF. THE STAND OF TIMBER WAS APPROXIMATELY 50 YEARS OLD. ADDING THESE TOGETHER DATES THE NOTCH TO ABOUT 1900. RETURNING TO THE CLOSING CORNER 1/2 MILE EAST SET AT THE SAME TIME BY THE SAME SURVEYOR SHOWED THE TIMBER THERE ALSO APPROXIMATELY 50 YEARS OLD. GROWTH RINGS OVER THE NOTCH AND SCRIBING ON THE NORTHERLY BT SHOWED ABOUT 50 GROWTH RINGS. THIS INFORMATION DATES THE NOTCH AT THE S 1/4 CORNER OF SECTION 36 TO THE SAME TIME AS THE SURVEY BY SMITH IN 1871 AND MAKES IT THE ORIGINAL BT. SHOVELED THE GROUND FOR ORIGINAL POSTS AT BOTH PATTERNS AND FOUND NO TRACE. DECLARED THE PATTERN WITH THE NOTCH ON ORIGINAL BT TO BE THE CORNER FROM WHICH WE FOUND THE FOLLOWING:
 S 18°E 9.62' (GLO=S 25°E 8.58') FND. 18" FIR STUMP WITH NOTCH (WAS PROBABLY 24" TO OUTSIDE OF BARK)
 N 27°W 13.1' (GLO=N 30°W 12.54') FND. 30" ± FIR STUMP VERY ROTTED (36" AT GROUND LEVEL).
 PHOTOS ON FILE

SEARCHED FOR BUT NOT FOUND OR SET. NEIGHBOR REPORTED CORNER WAS DESTROYED BY GRADER.

SEARCHED FOR BUT NOT FOUND OR SET. NOT NEEDED FOR THIS SURVEY. NOT ENOUGH RESEARCH AND SEARCH TIME TO DECLARE LOST. CORNER FALLS IN STEEP Ravine WITH MANY BLOWDOWNS.



BASIS OF BEARING WAS BY OBSERVATION OF POLARIS

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