#### SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250 OREGON REVISED STATUTES

## NARRATIVE OF SURVEY FOR SECTIONS 10 AND 11

Section 10 and 11, Township 33 South, Range 2 East of the Willamette Meridian in Jackson County, Oregon

To monument the boundary corners and post line markers along the northerly boundary of Tract 402 in Section 10 and Tract 403 in Section 11, as shown on Segment 4 of the Lost Creek Lake Real Estate drawings. Tract 402 is shown as Tax Lot 3401 on the Jackson County Assessor's Map, and Tract 403 is shown as Tax Lot 3100.

Establishing Lambert State Plane Coordinate control traverse: PROCEDURE:

The areas to be surveyed under this contract were concentrated in Sections 10, 11, 20 and 21, T 33 S, R 2 E. An initial control traverse was run from the vicinity of the northeast corner of Section 20 northeasterly through Sections 10 and 11. This traverse ran from station POST 11-A and closed on the line between stations "GUARDRAIL" and "SHOLDER", all of USCE second-order control. This yielded an unadjusted closure of 0.95 feet and 00°00'38" in bearing, with a precision of 1:26100. After angular adjustment, the distance closure increased to 2.01 feet and precision dropped to 1:12400. Although this met contract requirements of NOAA 3rd Order Class 1, it indicated that there may be an error in the traverse. Also, adjusting out 2.01 feet would cause problems in getting any additional surveying from this control traverse to fit. Therefore, the traverse was run back to close on itself. This yielded an unadjusted closure of 0.54 feet and 00°00'07" angular closure. After angular adjustment, the distance closure dropped to 0.15 feet and the ratio of precision was 1:311,000. This was now an acceptable traverse closure, but raised questions concerning the accuracy of the established USCE Second Order coordinates. The control traverse was adjusted by the Crandall method of least squares. The computed coordinates of "GUARDRAIL" and "SHOLDER" now differ from the record coordinates by 0.83 feet and 0.97 feet.

As a check, two more Second Order control stations, "TURNOUT" and "DUNG", both in Section 10, were tied to by closed traverse. The computed coordinates differed by 0.29 feet and 0.33 feet from the record coordinates. It was then decided that, since these latter stations were located in the immediate vicinity of the boundary to be monumented, the record coordinates at "TURNOUT" would be held and the control traverse rotated to match these coordinates and the bearing between "TURNOUT" and "DUNG".

The measured distance between "TURNOUT" and "DUNG" differed from that determined by the record coordinates by 0.21 feet. Since both were to be used for establishing and checking the accuracy of the boundary, the computed coordinates for "DUNG" were used rather than the USCE record coordinates. This would minimize problems in establishing a boundary point from one station and attempting to verify its accuracy by traverse from the other station.

### Survey of Section 10:

The east 1/4 corner of Section 10 was included in the initial control traverse. Additional traversing was run to tie to the northwest, southwest, and southeast corners and north, west, and south 1/4 corners. A description of the monuments and accessories found are listed at the end of this narrative.

A review of prior surveys indicated some changes in the accepted position of the southwest and south 1/4 corners of Section 10. The earliest private survey of record, Survey #1098, dated January 1957, reports finding no original evidence of these two corners, and establishing the southwest corner by double proportionate measurement and the south 1/4 corner by single proportionate measurement. Survey #4721, dated December 1971, reports finding the original notched stone marking the southwest corner. This corner position was perpetuated by the BLM in 1974. At this same time, the BLM established a position of the south 1/4 corner by single proportionate measurement. The BLM monuments found at these two corners were used for this survey.

Survey #1098 also reported finding no definite original evidence of the west 1/4 corner of Section 10, but did establish a corner position based on a possible original southeast bearing tree and affidavits from two local residents. This corner position has been perpetuated by subsequent surveys, and lies north 39 feet and east 45 feet from a single proportionate position. Due to the terrain and the type of vegetation reported as being encountered in the original survey, I felt that the true corner position should not vary nearly as much from the proportionate position. Therefore, there was some doubt as to the accuracy of this 1/4 corner position. An attempt was made to locate and review the affidavits, but no record of their existence could be found, nor could the identity of the two local residents be determined. Because of its proximity to State Highway 62, the Oregon State Department of Transportation was contacted in hopes of researching highway maps and survey field notes for any clues to the true 1/4 corner position. Research at the Medford ODOT office lead to contacting the Roseburg ODOT office by phone. They in turn contacted their Archives office in Salem. This all proved fruitless, and no evidence could be found to more accurately determine the true 1/4 corner position. Therefore, the corner position as established by Survey #1698 was accepted as being the best available evidence.

The east 1/4 of Section 10 was evidently monumented at single proportionate distance during Survey #1698. This position falls in the westbound lane of Mill Creek Drive.

Using the foregoing information, the center 1/4 corner of Section 10 was then determined by straightline intersection, and the southeast quadrant subdivided and monumented as shown on sheet 2. The intermediate monuments shown were placed so that they are intervisible.

Monument no. 10-05-R, at the extreme west end of the monumented boundary, was intended to be placed on the southerly right of way boundary of Mill Creek Drive, formerly State Highway No. 62, (Crater Lake Highway). However, deed research revealed an uncertainty over the true right of way width. Two county centerline surveys prior to 1900 indicated a 60 foot right of way width, but neither survey corresponded to the present road location. Many deeds, from 1916 on, referred to a 60 foot right of way. Still other deeds referred to an 80 foot wide right of way. An Oregon State Highway Department map, Drawing No. 2B22-9, "McLeod to Prospect, Crater Lake Highway", dated Nov. 1930, shows an 80 foot wide strip, but calls it a "constructed line" rather than a right of way. Due to this uncertainty, the monument was placed at 40 feet from the centerline to allow for possible encroachment into the right of way.

In Survey #3318, dated 1966, Surveyor Ed McGinty showed a found centerline PI monument, and referred to a 1932 Highway map. This map could not be located in the ODOT records. I therefore contacted Mr. McGinty, and he was able to provide me with a copy of a portion of field notes from a parcel survey by the State Highway Department, which showed a PI monument as being set at that time. This monument and several of those set by Mr. McGinty along the "40 feet from centerline" boundary were recovered and used to determine the location to place monument #10-05-R.

### Survey in Section 11:

The southwest quarter of Section 11 was subdivided and monumented by the BLM in 1974. For the purpose of this survey, the east-west centerline needed verification prior to setting monuments. The east 1/4 corner of Section 11 had not been established in the original government survey. The BLM in 1974 had used the witness 1/4 corner, from the original government survey, and the northeast corner of Section 11 to establish the east 1/4 corner location. These three monuments were included in a closed traverse, and the location of the east 1/4 corner monument was accepted for this survey.

The monument marking the west 1/16 corner on the section centerline was also included in the closed traverse and checked for accuracy in east-west alignment only. It was found to be within acceptable limits and used to control the direction of the north boundary of the northwest 1/4 of the southwest 1/4 of the section.

Since Mill Creek Drive enters and exits Tract 403, the points of intersection of the 80 foot wide "constructed line" boundary with the eastwest section centerline were monumented. The as-constructed centerline of the roadway was compared to the record location as shown on Oregon State Highway Department Drawing No. 2B22-9, and the record curve information fit the existing conditions quite well. The monuments were then placed accordingly.

## NARRATIVE OF SURVEY IN SECTIONS 20 AND 21

Northeast quarter of Section 20 and northwest quarter of Section 21, Township 33 South, Range 2 East of the Willamette Meridian in Jackson County, Oregon.

To monument that part of the Project Boundary in Section 20 from existing monument RW 20-01L, along the line described in Disclaimer Deed recorded as Instrument No. 85-07974 of the Official Records of Jackson County, to the southerly right of way boundary of Peyton Frontage Road, then along the southerly right of way boundary to the existing Project Boundary Monument 21-02 in Section 21, as shown on Segment 3 of the Lost Creek Lake Real Estate drawings.

PROCEDURE: A closed traverse was run along the length of Peyton Frontage Road, tying in the existing monuments along the line being surveyed. USCE monument POST 11-A was used as control for Lambert Coordinates, with the line from POST 11-A to POST 10-B used as a basis of grid bearing.

Monument 20-1A was placed at the intersection of the existing monumented line with the west boundary of the east 1/2 of the northeast 1/4 of Section 20. This section division line was not verified on this survey, since its location was already known from previous work done by this office during Survey #9667 in 1983. Monuments 21-1A and 21-1B were located in relation to the existing Peyton Frontage Road centerline and right of way monumentation.

Monument 21-1, having been originally set by the Corps in 1970, was missing and believed to have been destroyed during clearing for right of way fence construction by the Highway Department. The method of bearing-bearing intersection from adjacent monuments 20-21 and 21-2 was used to locate the missing monument. This yielded coordinates which are much closer to the original Corps coordinates for this point than those computed by the method of distance-distance intersection.

## SECTION CONTROL - FOUND OR SET (Bearings oriented to true north)

North 1/4 corner of Section 10: Found, at a fence corner from which fences run east-west and south, the 1963 County Surveyor brass cap monument and the following bearing trees.

18" dia. ponderosa pine bears N 27° W 9.2 ft.

14" dia. black oak bears S 33°30' W 31.7 ft.

12" dia. black oak bears S 63°20' E 31.2 ft.

Northwest corner of section 10: Found, the 1971 County Surveyor brass cap monument marking the corner common to sections 3, 4, 9, and 10, and the following bearing trees.

8" dia. cedar bears N 55°39' W 39.4 ft. 14" dia, black oak bears N 74°19' W 13.6 ft.

12" dia. black oak bears N 83° 20' E 57.8 ft.

9" dia. black oak bears S 73°24' E 33.1 ft. 24" dia. cedar bears S 9°50' W 30.1 ft.

Found, on the east shoulder of a one lane gravel West 1/4 corner of Section 10: access road, a 5/8" dia. iron pin with yellow plastic cap, set on Survey #8061 in 1979, and the following bearing trees.

9" dia. white oak bears S 64° E 5.28 ft.

19" dia. ponderosa pine bears S 10° W 114.8 ft. 13" dia. ponderosa pine, now dead, bears S 80° East 38.8 ft.

Southwest corner of Section 10: Found, the brass cap monument set on Survey #4721 in 1971, alongside the original marked stone, and the following bearing

15" dia. fir bears S 11°25' E 23.2 ft.

8" dia. fir bears N 53°40' W 19.8 ft.

24" dia. by 6' tall fir stump bears N 7°16' E 53.1 ft. 17" dia. by 6' tall fir stump bears S 43° E 46.9 ft.

The following trees were marked at this time:

8" dia. fir, marked "T33S R2E S10 BT", bears N 39°43' E 17.5 ft. 7" dia. fir, marked "T33S R2E S16 BT", bears S 36°33' W 32.8 ft. Survey #4721 shows the 2" pipe set for double proportion section corner in Survey #1098 as bearing N 11°11'30" W 66.41 ft. The pipe

was not located at this time. South 1/4 corner of Section 10: Found, a 1973 USCE 3.5" brass disc monument,

exposed 1.4 ft., and the following references.

8" dia. white oak bears N 5° W 24.1 ft.
7" dia. white oak bears S 65°20' E 26.3 ft.
1 1/2" dia. iron pipe, exposed 8", bears N 13°14' W 34.3 ft.

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Southeast corner of Section 10: Found, the 1" dia. iron pipe and brass cap set on
   Survey #4721 in 1971, and the following references.
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19" dia. fir bears N 58° E 39.5 ft.

26" dia. fir bears S 66° E 21.6 ft. 22" dia. fir bears S 14° W 31.2 ft.

17" dia. fir bears N 42° W 31.6 ft.

East 1/4 corner of Section 10: Found, flush with the surface of Mill Creek Drive, the 1 1/4" dia. iron pin set at proportionate measurement on Survey #1098 in 1957, and the following bearing trees. 15" dia. fir bears N 26°34' W 53.0 ft.

12" dia. fir bears S 57°26' E 66.5 ft.

Center 1/4 corner of Section 10: Set a 30" long Berntsen aluminum monument flush with the surface, with the aluminum cap stamped as shown here, and marked the following bearing trees.

8" dia. white oak bears N 11° W 11.1 ft. T33S R2E 6" dia. madrone bears N 11° E 15.6 ft. C1/4 S10Both trees are marked "C1/4 S10 BT". 1986 Found the iron bolt set for the C1/4 on LS 1656 Survey #1098, bears S 89°32'20" W 2.64 ft.

Center east 1/16 corner of Section 10: Set a 30" long Berntsen aluminum monument, exposed 4", in a mound of stone, with the aluminum cap stamped as shown here, and marked the following bearing trees. 6" dia. white oak bears S 7.5° E 11.0 ft. E 1/16

8" dia. madrone bears S 12° E 11.6 ft. S 10 Both trees are marked "CE 1/16 S10 BT", - C-+-C 1986 LS 1656

Northeast corner of Section 11: Found, 3" deep in gravel driveway, the 1974 BLM brass cap monument marking the corner common to sections 1, 2, 11, and 12, and the following references.

12" dia. dead cedar bears N 27°46' W 30.7 ft.

5/8" dia. iron pin with County Surveyor plastic cap bears N 41°32' W 29.57 ft. 5/8" dia. iron pin with County Surveyor plastic cap bears S 41°30' E 26.29 ft.

Witness to east 1/4 Section 11: Found, the 1" pipe with 1 1/2" expander, bearing the date of 1954, and the following bearing trees. 8" dia. fir bears N 64°28' E 24.8 ft.

34" dia. fir bears N 54°26' W 4.7 ft. 44" dia. fir stump bears S 82°30' E 25.1 ft.

East 1/4 corner of Section 11: Found, the 1974 BLM brass cap monument and the following bearing trees. 14" dia. fir bears S 80° W 19.4 ft.

Center-west 1/16 corner of Section 11: Found, the 1971 BLM brass cap monument and the following bearing trees. 10" dia. fir bears S 4° W 52.7 ft.

20" dia. fir bears N 40°40'E 41.5 ft.

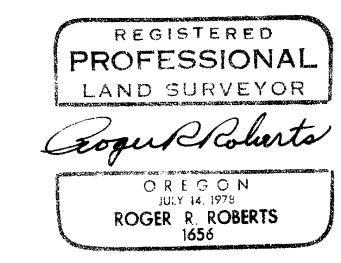
8" dia. fir bears S 68° E 12.3 ft.

Northeast corner of Section 20: Found, the top of and overhanging the high bank of the river canyon, the 1973 BLM brass cap monument marking the corner common to sections 16, 17, 20, and 21, and the following bearing trees. 42" dia. fir bears N 72°40' E 53.9 ft.

26" dia. fir bears S 4° E 5.7 ft. 18" dia. fir bears S 70° W 25.3 ft. 8" dia. fir bears N 27°30' W 16.5 ft.

North 1/16 corner between Sections 20 and 21: Found the 1" dia. iron pipe with brass disc, set on Survey #9667 in 1983, from which a USCE brass disc monument set in concrete in 1970, and stamped "20-21", bears N 61°55'35" W 22.71 ft. A County road centerline monument, being a brass disc set in concrete, bears N 28°41'20" W 93.62 ft.

Center-east 1/16 corner of Section 20: Found the 1" dia. iron pipe with brass disc, set on Survey #9667 in 1983, from which a USCE brass disc monument set in concrete in 1970, bears N 57°13'13" W 28.69 ft.



LOST CREEK LAKE U.S. ARMY CORPS OF ENGINEERS

# SURVEY NARRATIVE

FOR SURVEY OF NORTH BOUNDARY, TRACTS 402 AND 403 IN SECTIONS 10 & 11, T.33S., R.2E., W.M. AND SOUTHEAST BOUNDARY OF TRACTS 313 & 314 IN SECTIONS 20 & 21, T.33S., R.2E., W.M. JACKSON COUNTY, OREGON

HOFFBUHR and ASSOCIATES, INC. 219 N. OAKDALE MEDFORD, OREGON

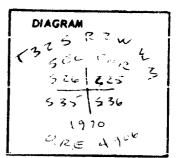
AUGUST 10, 1986

NPPEN - SY 85 - 86

SHEET 5 OF 5

#### History of original corner establishment:

THIS GORNER WAS SET IN 1970 BY O.R.E. # 4906.



#### Description of corner evidence found:

FOUND A BRASS CAP ON A Z" IRON PIDE IN A ROCK MOUND.

## Description of monument and accessories i established to perpetuate the original location of this corner

FOULD A 26" FIR WHICH BEARS NIDE 37.0', SCAR VISIBLE.

FOULD A 6" FIR WHICH BEARS 555" 43.0', SCRIBE VISIBLE.

FOULD A 36" FIR STUMP WHICH BEARS 511" 9.7', SCRIBE VISIBLE.

FOULD A 24" FIR SMAG WHICH BEARS 549" 15.3', SCRIBE VISIBLE.

FOULD A 13" FIR WHICH BEARS 571" 31.1', SCRIBE VISIBLE. (DEAD)

FOULD A 24" FIR WHICH BEARS NIZBYZ" W 48.5', SCAR VISIBLE.

I SCRIBED A 8" FIR WHICH BEARS 557 12" X2.1', MARKED T325

R 2W 5 35 BT, MAILED LS WASHER NO.944 TO BT SCRIBE.

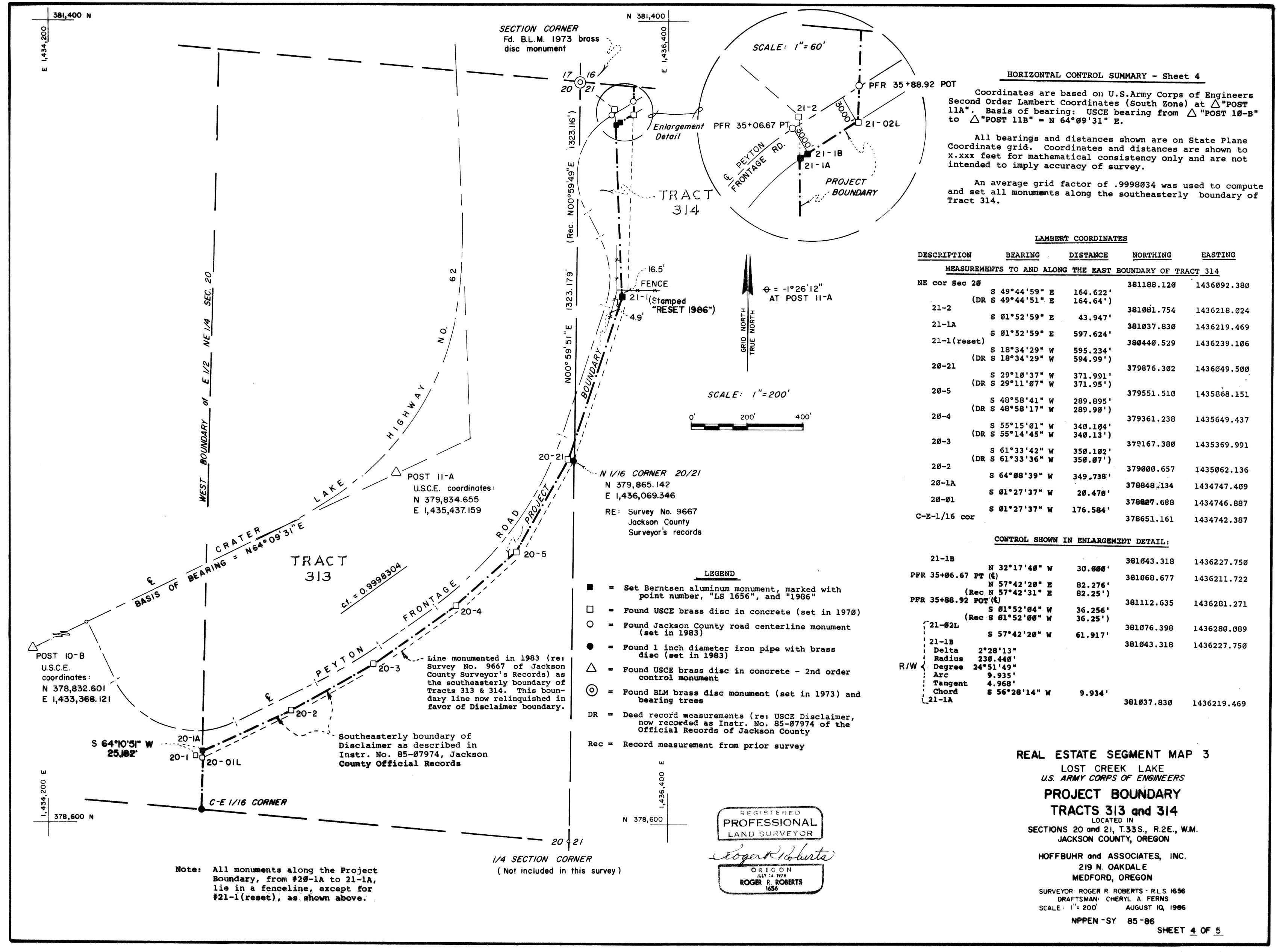
DATE: OCT., 1986

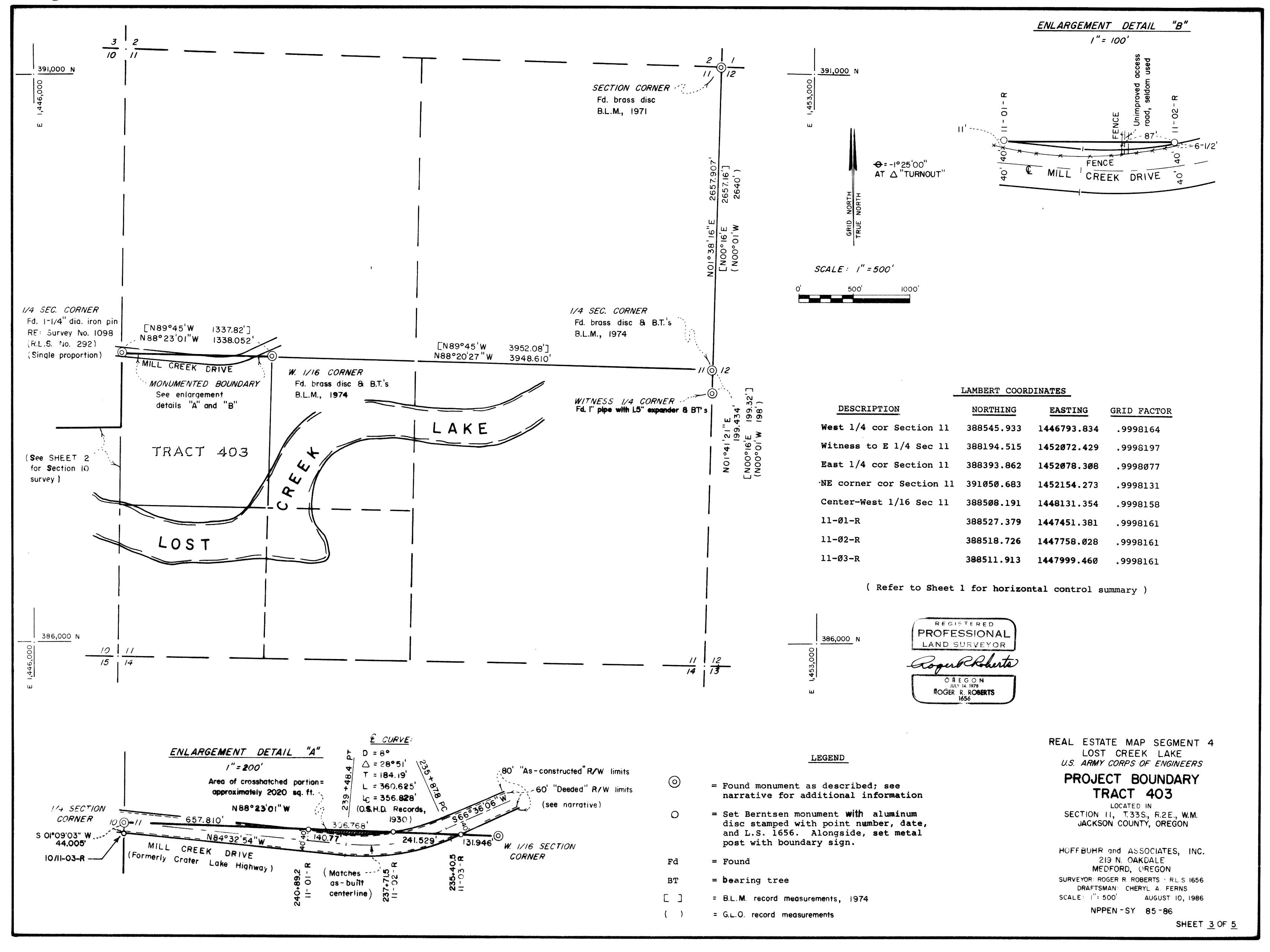
PROFESSIONAL
LAND SURVEYOR

OREGON
JULY 17, 1970
LOYD R. MOFFIT
944

Form R6-7100-57 (9/71)

☆ GPO 796-333





10728 389,000 N Tare Deeded R/W boundary (60') 389,000 N State Highway Dept. as - constructed boundary (80') Deeded R/W CENTER 1/4 C-E 1/16 boundary (60') CORNER ⊕ = -1°25'00" CORNER ----S88°13'23"E ----AT A TURNOUT ---[319.570'---W'55°08N 0.77 659.785 10/11-03-R Refer to Sheet 1 for horizontal (SURVEY control summary NO. 5398) N00°41'08"E 99.982 SCALE : /" = 300' [NO0°38'10"W 100.00"] 'TURNOUT" [WEST 316.29'] NORTH BOUNDARY TRACT LAMBERT COORDINATES DESCRIPTION DISTANCE NORTHING EASTING S88°23'04"E 658.403" 658.403 ghway centerline P.I. N-S-1/64 CORNER 10-05-R 388535.682 (Point of Intersection) 1443836.147 NE-SE T 1/64 CORNER S 88°34'57" E 164.427 10-06-R 388531.614 1444000.524 S 88°34'57" E 154.289 10-07-R 388527.797 1444154.766 N 66°41'68" E 99.982 C 1/4 cor 388627.772 1444155.962 S 88°13'23" E 87.368' 10-08-R **388625.**Ø63 1444243.288 NOTE: Refer to Sheet I S 88°13'23" E 140.601 for Section line 10-09-R 388620.703 1444383.821 control information S 88°13'23" E 78.659 10-10-R 388618.264 1444462.442 1314.054 S 88°13'23" E 188.647 657.027 10-11-R 388612.414 1444650.999 S 88°13'23" E 179.979 S88°32'47"E 1444830.891 ž S 88°13'23" E 125.935' 1Ø-13-R 388602.927 1444956.766 S 88°13'23" E 179.468 10-14-R 388597.362 1445136.148 S 88°13'23" E 338.913' C-E-1/16**388586.**853 1445474,898 S 88°13'23" E 75.827' 10-15-R 388584.501 1445550.689 S 88°13'23" E 124.147' 10-16-R 388580.652 1445674.776 S 88°13'23" E 114.577' 1Ø-17-R 388577.099 1445789.298 S 88°13'23" E 345.234' C-E-E 1/64 **3885**66.393 1446134.366 S Ø1°62'61" W 129.125' 10-18-R **388**437.289 1446132.036 S Ø1°Ø2'Ø1" W 166.232' 10-19-R 388271.084 1446129.038 S Ø1°62'61" W 225.393' 10-20-R 388045.728 1446124.972 145.671' S 01°62'61" W NE-SE 1/64 **3879**00.080 1446122.345 S 88\*23'64" E 179.333' 10-21-R 387895.Ø24 1446301.606 386,000 N S 88\*23'64" E 372.275' 386,000 N 10-22-R 387884.527 1446673.733 1308.579 S 88°23'04" E 166.795 1308.579 10 11 N-S 1/64387881.516 1446780.486 \$88°52'21"E SOUTH 1/4 CORNER 15 | 14 N 01.09.63" E 138.444 10/11-01-R 3**880**19.932 1446783.267 N 01.09.03" E 145.285 SECTION CORNER 10/11-02-R 388165.188 1446786.185 N 61.69.63" E 336.817 10/11-03-R 388561.937 1446792.95¢ N 61.69.63" E 44.005' E 1/4 COR 388545.933 1446793.834 ENLARGEMENT DETAIL LEGEND /"= 60' = Found USCE brass disc, second order ORIVE REGISTERED REAL ESTATE MAP SEGMENT 4 control monument **PROFESSIONAL** LOST CREEK LAKE Fenced enclosure (chickens) LAND SURVEYOR U.S. ARMY CORPS OF ENGINEERS = Found 5/8" diameter iron pin Koger Roberts PROJECT BOUNDARY Set Berntsen monument with aluminum disc stamped with point number, date, TRACT 402 O R E G O N JULY 14, 1978 PROJECT BOUNDARY and L.S. 1656. Alongside, set metal LOCATED IN ROGER R ROBERTS post with boundary sign SECTION 10, T.33S., R.2E., W.M. JACKSON COUNTY, OREGON Set 3.5" diameter brass disc drilled and cemented onto top of small rock outcrop, **%**0. S.W. end of fence with stamping & signpost as described above HOFFBUHR and ASSOCIATES, INC. 219 N. OAKDALE = Record neasurements from Filed Survey #3318 MEDFORD, OREGON (Not reduced to grid) SURVEYOR: ROGER R. ROBERTS - R.L.S. 1656 DRAFTSMAN: CHERYL A. FERNS Approximate top of canyon wall SCALE : 1"= 300" AUGUST 10, 1986 NPPEN -SY 85-86

SHEET 2 OF 5

