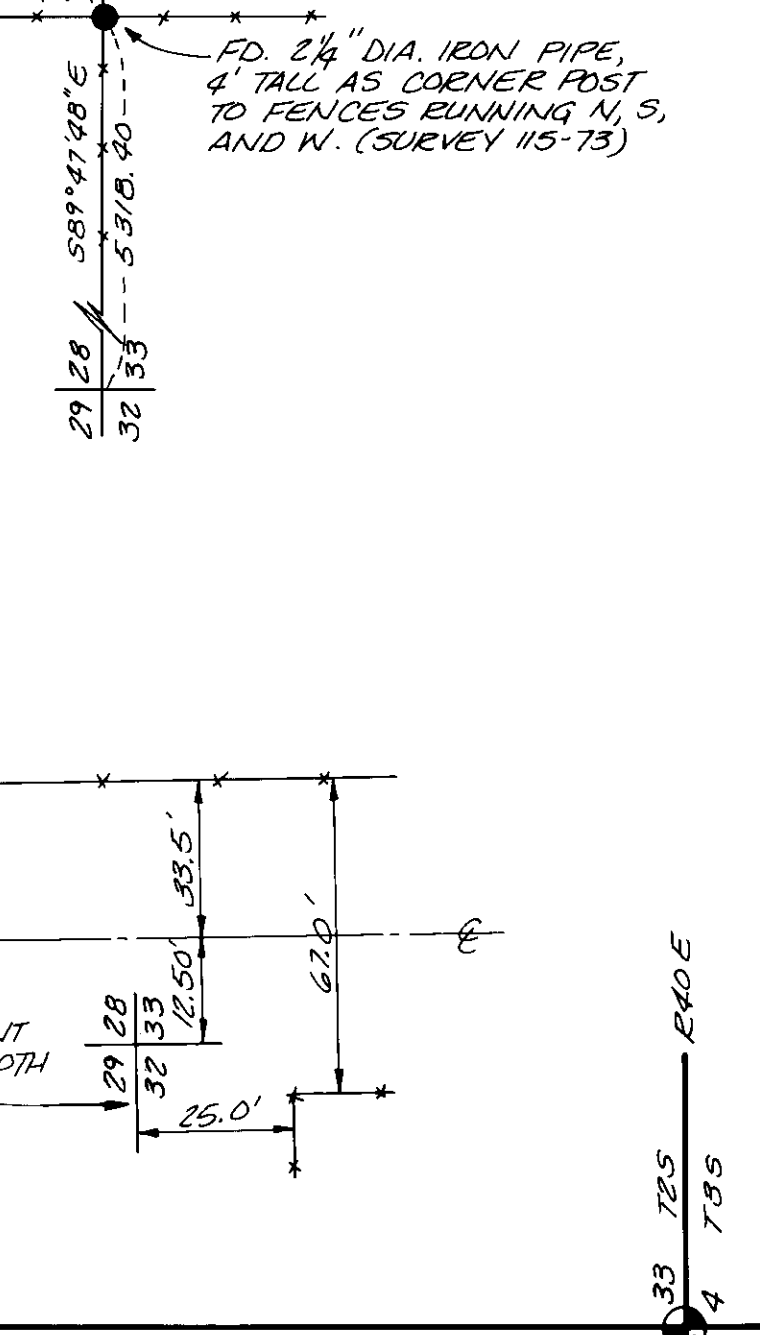
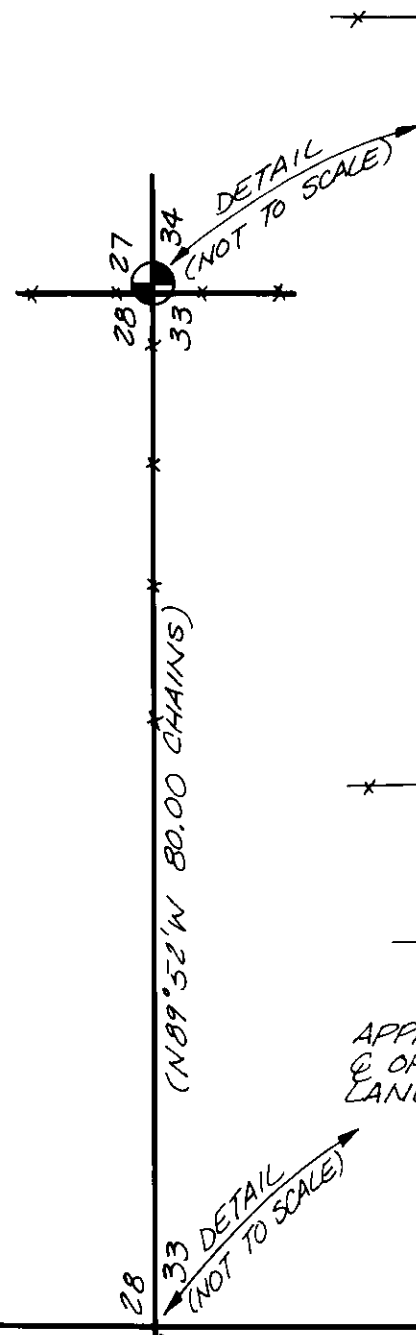
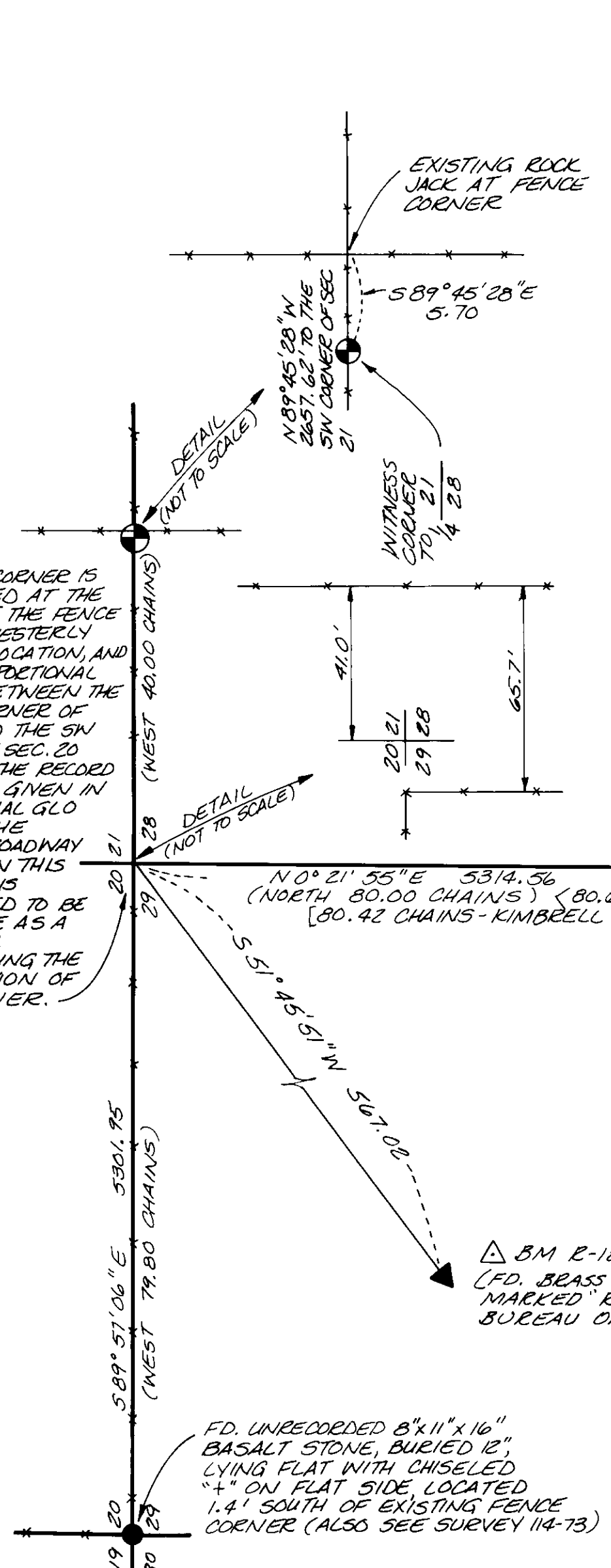


98-EX

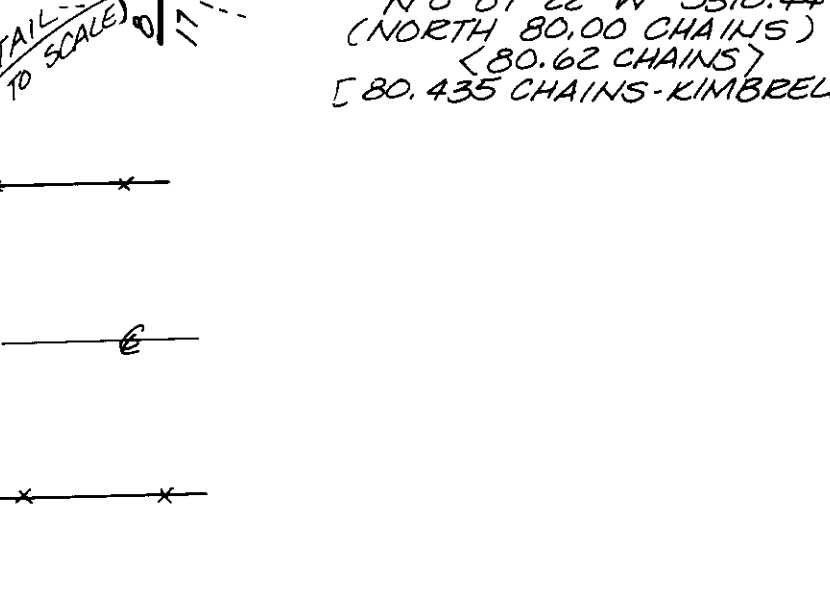
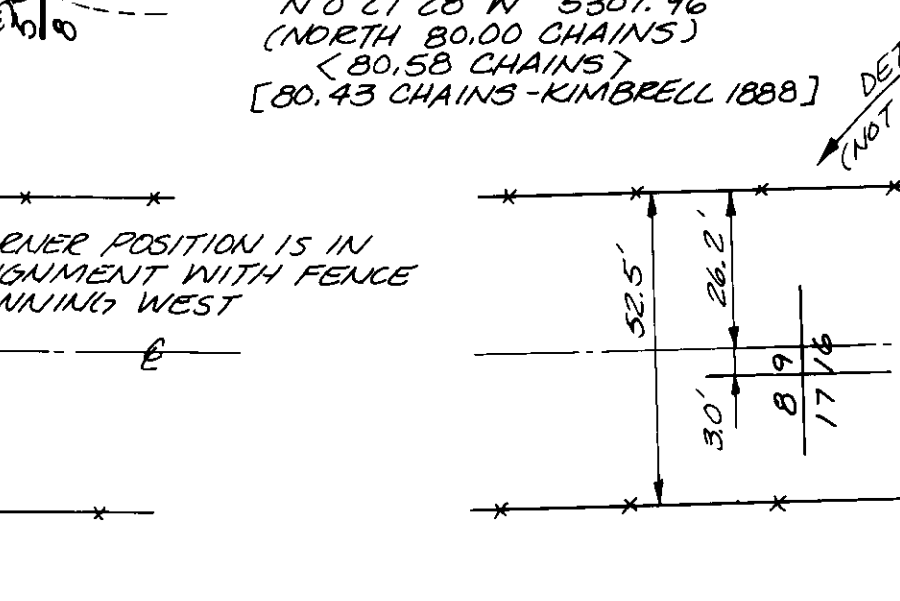
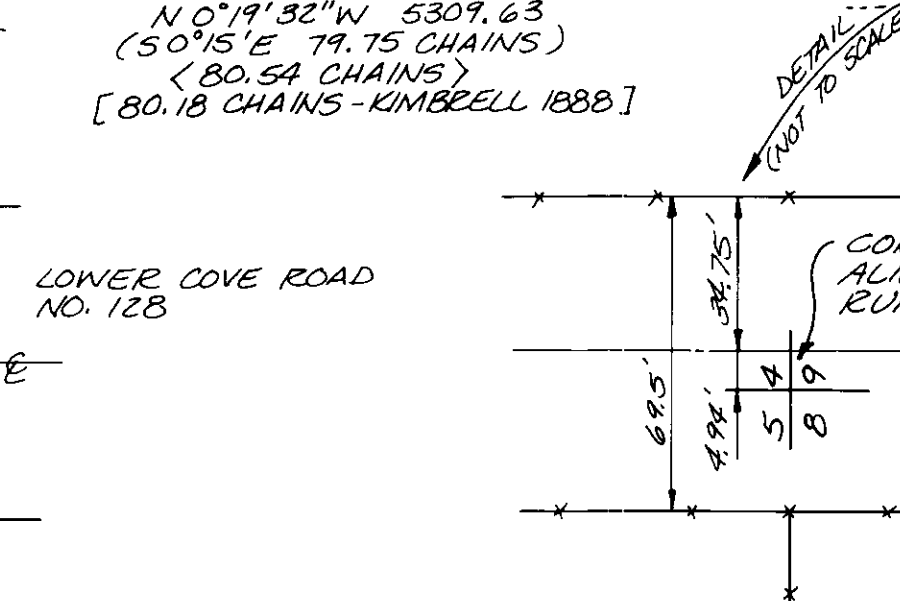
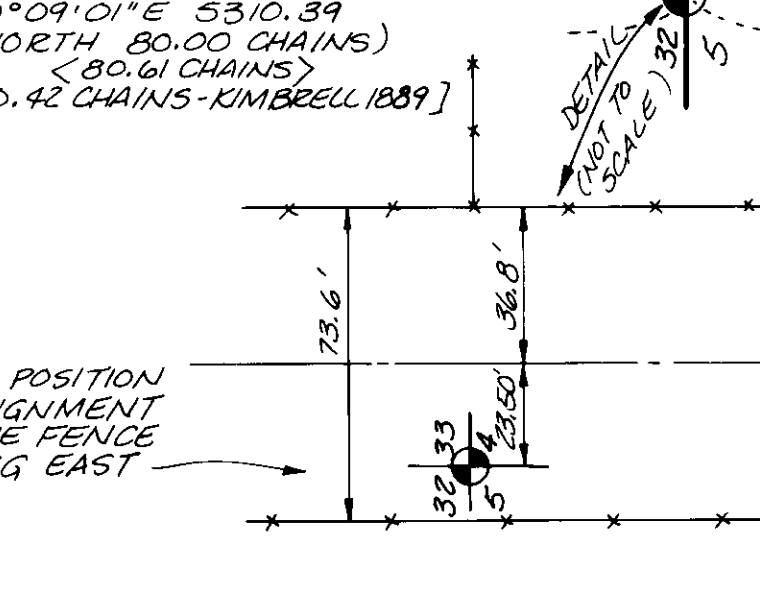
BASIS OF BEARINGS

N 89° 11' 12" E (TRUE) FROM Δ PHYS PT 1946 TO Δ COVE 1945 PER READJUSTMENT OF OCT. 1970 PUBLISHED BY U.S. DEPT. OF COMMERCE IN APRIL, 1971.

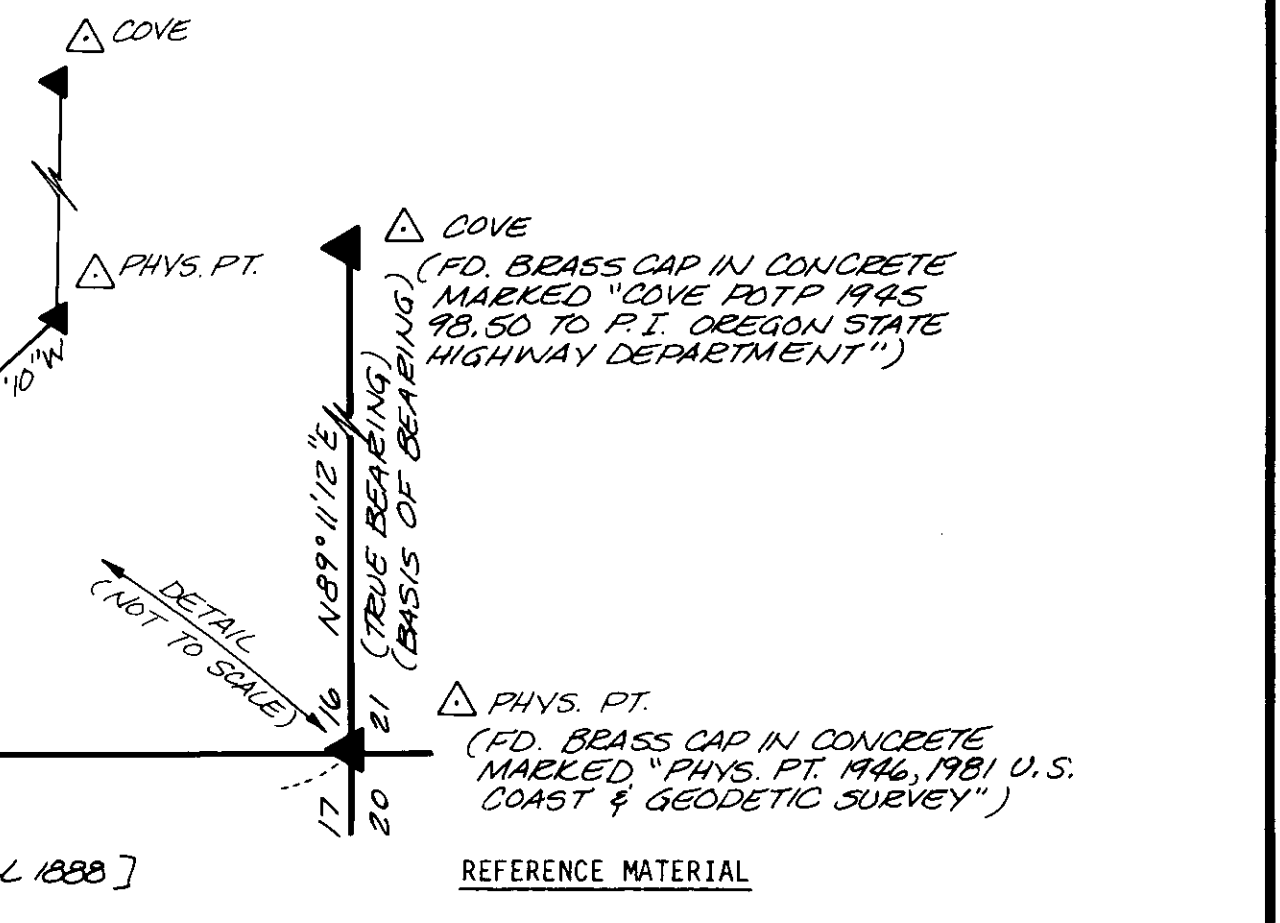


NOTE: IN A NOTE WRITTEN ON THE MARGIN OF KIMBRELL'S 1888 SURVEY IN T.35, R.40E (OLD SURVEY BOOK PG. 110-111), J.L. CURTIS STATES THAT KIMBRELL, WHILE PERFORMING A RESURVEY OF THE ROAD DESCRIBED IN PETITION NO. 406, FOUND AND ACCEPTED THE GOVERNMENT CORNER TO SECTIONS 4, 5, 8, AND 9, BASED ON EVIDENCE FROM LOCAL SETTLERS. THIS CORNER FOUND IN 1872 BEARS S 56° W 20 LINKS FROM THE CORNER PREVIOUSLY ESTABLISHED BY KIMBRELL IN 1888. WE ASSUME THAT THE EXISTING FENCE RUNNING WESTERLY FROM THIS LOCATION IS AT THE LATITUDINAL POSITION OF THE CORNER FOUND AND ACCEPTED IN 1872. THEREFORE, WE ESTABLISH THE CORNER POSITION IN LINE WITH THE WESTERLY RUNNING FENCE. THE OFFSET TO THE CORNER FROM THE CENTER OF THE FENCED ROADWAY IS THE RESULT OF COMBINING THE OFFSET DIMENSIONS GIVEN BY CURTIS IN HIS OCT. 1891 SURVEY WITH THE DEPARTURE COMPONENT OF KIMBRELL'S TIE (S 56° W 20 LINKS) TO THE CORNER FOUND IN 1872.

NOTE: THE LATITUDE OF THIS CORNER IS BASED ON A PROPORTIONING OF THE ACTUAL LATITUDE BETWEEN THE SW CORNER OF SEC. 16 AND THE NW CORNER OF SEC. 9 USING THE DISTANCES FROM KIMBRELL'S 1892 SURVEY. IT'S DEPARTURE IS DETERMINED BY REFERENCE TO THE CENTER OF THE FENCED ROADWAY AS SHOWN IN CURTIS' OCT. 1891 SURVEY (ROAD PETITION NO. 395)



- ### LEGEND
- Found monument as described.
 - ▲ Found survey control station as described.
 - Set brass disk in concrete, 12" below existing roadway surface and beneath cast-iron "Water Valve" cover. Monument is marked as shown. Also refer to Record of Land Corner Monumentation filed concurrently with this survey.
 - ⊙ Set 2"x30" aluminum pipe with aluminum cap, marked as shown. Also refer to Record of Land Corner Monumentation filed concurrently with this survey.
 - Existing fence line.
 - () Original General Land Office Survey Dimension.
 - < > Kimbrell Survey, 1892 (County Road Petition No. 406)
 - [] Dimension per cited record.



REFERENCE MATERIAL

Original General Land Office Surveys

- Surveys of the Township line between T.2S and T.3S., R.40E by T. Davenport, Contract No. 102, 1863 and W.B. Barr, Contract No. 355, 1880.
- Partial subdivision of T.2S and T.3S, R.40E by D.P. Thompson, Contract No. 103, 1863.

Records of Union County, Oregon

- Dependent resurvey in Sections 29, 30, 31 and 32, T.2S, R.40E by J.W. Kimbrell, August, 1889, "Old Survey Book, Pg. 181-182".
- Dependent resurvey in Sections 4, 5, 8, 9, 16 and 17, T.3S, R.40E by J.W. Kimbrell, October, 1888, "Old Survey Book, Pg. 110-111".

County Roads

- Petition No. 4 (portions of Island City - Cove State Highway No. 237 and Warm Creek County Road No. 63)
- Petition No. 22 (Lower Cove County Road No. 128)
- Petition No. 395 (Lower Cove County Road No. 128, including surveys by J.L. Curtis, County Surveyor, on June 18, 1891 and on October 23, 1891)
- Petition No. 405 (Booth Lane County Road No. 126)
- Petition No. 406 (Lower Cove County Road No. 128, includes survey by J.W. Kimbrell as Deputy for J.L. Curtis, County Surveyor, performed April 4, 1892)

County Surveys

- No. 114-73
- No. 115-73
- No. 5-80
- No. 10-84

Oregon State Highway Drawings 5B-2-6 (Island City-Cove Highway) and No. 6B-19-1 (Cove-Union Highway)

Horizontal Control Data (per readjustment of October, 1970) as published in April, 1971 by the U.S. Department of Commerce for the following survey stations:

- Phys. Point 1946 (U.S. Coast and Geodetic Survey)
- Cove 1945 (Oregon State Highway Department)
- BM R-12 1937 (U.S. Bureau of Reclamation)

SURVEY NARRATIVE

This survey of portions of T.2S and T.3S, R.40E, near Cove, Oregon, was performed at the request of U.S.D.A. Forest Service, for the purpose of establishing and monumenting selectu survey positions to be utilized in future survey activities along the National Forest Boundary in the vicinity. The survey was performed during April and May, 1986 and utilized a one-second theodolite and electronic distance measuring device.

The survey is located in the valley floor and low foothills of the Grande Ronde Valley with the primary land use being agricultural for the production of grain, hay and livestock pasture. The long occupation and usage of the land in the area has resulted in the establishment of definite boundaries, evidenced by roads, fences, cultivation lines and man-made water drainage ways. Mapping of the area by the Union County Assessor and the U.S. Geological Survey shows a strong correlation between the occupational patterns on the ground and the ownership lines derived from the sectional and section subdivisional boundaries. This survey will demonstrate that the positions of the survey corners shown have been reliably perpetuated and can be correctly restored to their original positions by reference to the physical evidence on the ground and the applicable records cited in the Reference Material.

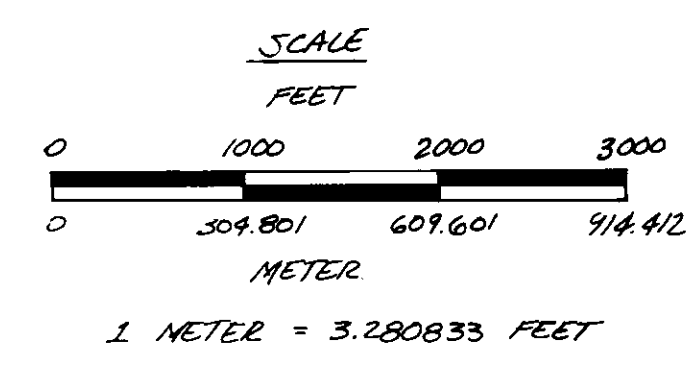
The records reviewed for this survey are listed in the compilation of the Reference Material. Of particular importance to this survey are the records of County Road Petitions 4, 22, 395, 405 and 406. These Road Petition Records contain information which gives the relationship of the various roadways and the section corners and lines. Road Petition 4 (Warm Creek Road) simply states that the roadway centerline follows the section line. Lower Cove Road as described in Petition No. 22 begins at the SE corner of Section 17, T.3S, R.40E and runs North, presumably along the section lines, to the NE corner of Section 29, T.2S, R.40E. Additional petitions for Lower Cove Road (Petitions 395 and 406) dated 1891 and 1892 indicate that the existing roadway no longer follows the section line; the reasons for this discrepancy in location is unclear in the records. The result of Petition 395 is that the road was declared opened along the lines of the existing roadway, not along the existing section lines, which apparently are the section lines reestablished by Kimbrell in 1888 and 1889. The records for Petition 395 clearly indicate the relationship of the existing roadway and the section line location. Road Petition No. 405 (Booth Lane County Road No. 126) commences at the SE corner of Section 29, T.2S, R.40E and runs West along the line between Sections 29 and 32. The survey contained in Road Petition 406 retraces the section lines along Lower Cove Road, establishes monumentation, but does not refer to the actual roadway location. Refer to the Note pertaining to the SW corner of Section 4, T.3S, R.40E, for additional information.

Our survey commenced at the SW corner of Section 17, T.2S, R.40E. There is no obvious physical monumentation existing for this corner, therefore, we adopt the corner position as defined by coordinates given on OSHD drawing No. 6B-19-1 (Cove-Union Highway) with the following modification. It was noted that the coordinates shown on Drawing 6B-19-1 for survey station "Cove PDP 1945" differ from the coordinates published for the same point by the U.S. Department of Commerce in 1971. We apply this coordinate difference to the coordinates of the SW corner of Sec. 17 and find that this adjusted position is in good agreement with the existing centerline of the Cove-Union Highway and the center of the fences along Lower Cove Road.

We proceeded to survey along Lower Cove Road and Warm Creek Road in the areas shown on this drawing, taking measurements to the roadways and roadway fences, prominent evidences of occupation at apparent section, 1/4 section, and 1/16 section lines, and to selected fence corners and points described on prior surveys as survey corner locations. The results of this survey investigation are shown on this drawing.

We firmly believe that, in this particular area, the actions of the residents upon the land in their placement and maintenance of fences and roadways have perpetuated the positions of the original government corners and those corners reestablished by subsequent surveys. We have presumed that the center of the existing fenced roadways coincides with the center of the roadways surveyed in the cited road petitions. We have, therefore, located the corners and lines shown by reference to these roadways, roadway records, and intersecting lines of occupation. The offsets from the center of Lower Cove Road to the corners along said road are based on the information contained in Road Petition No. 395 and Kimbrell's resurvey of 1888. A visual search was made along Lower Cove Road and Warm Creek Road for evidence of stone monuments set during the various road and sectional surveys. Excavations were made with a tractor-mounted backhoe in search of monuments buried in Lower Cove Road at mile points and at selected corner locations. All section and 1/4 section locations we checked with a metal detector for the presence of unrecorded iron monuments. No monumentation was found as a result of these search efforts.

We feel that the evidence and procedures utilized in this survey are appropriate for the circumstances encountered and allow the resulting corner positions to be in harmony with the record and with conditions in the field.



NOTE

Certified Record of Land Corner Monumentation Records (U.S.F.S. Form R6-7100-57), which provide a complete description of section and 1/4 section monumentation found and established, are being filed concurrently with this survey map.

SURVEYOR'S STATEMENT

I, Gary L. Langlitz, a Registered Land Surveyor in the State of Oregon and Deputy County Surveyor for Union County, hereby certify that this plat and the notes hereon or attached, is a true and correct representation of the survey I performed during April and May, 1986, at the request of the U.S. Department of Agriculture, Forest Service, in accordance with the statutes of the State of Oregon.

Gary L. Langlitz
Deputy Union County Surveyor

UNION COUNTY SURVEYOR

Date Received: 5-21-86
Date Filed: 5-22-86
By: G. LANGLITZ, DEPUTY
File No. 13-86

DEPUTY COUNTY SURVEYOR

Gary L. Langlitz
1099

SURVEY OF PORTIONS OF THE BOUNDARIES OF:
SECTIONS 19, 20, 21, 27, 28, 29, 30, 32, 33, AND 34, T.2S, R.40E, AND SECTIONS 3, 4, 5, 8, 9, 10, 15, 16, 17, 20, AND 21, T.3S, R.40E, WILLAMETTE MERIDIAN, UNION COUNTY, OREGON

SURVEYED FOR: U.S. FOREST SERVICE, WALLAWA WATKINS NATIONAL FOREST, PG. 801-901, BAKER, OREGON 97814

SCALE: 1" = 1000'

DATE: APR-MAY, 1986
JOB NO. 671-00

UNION COUNTY SURVEYOR
P.O. BOX 1107
LA GRANDE, OREGON 97850

SHEET NO. 11

13-86