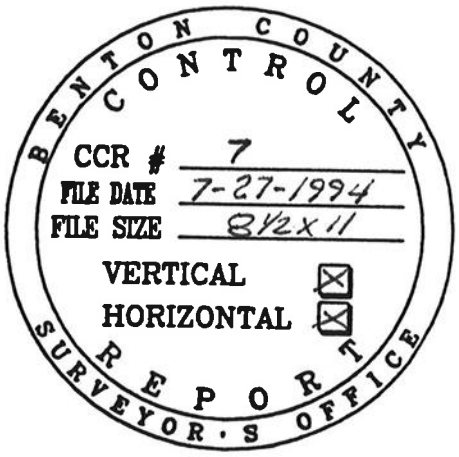
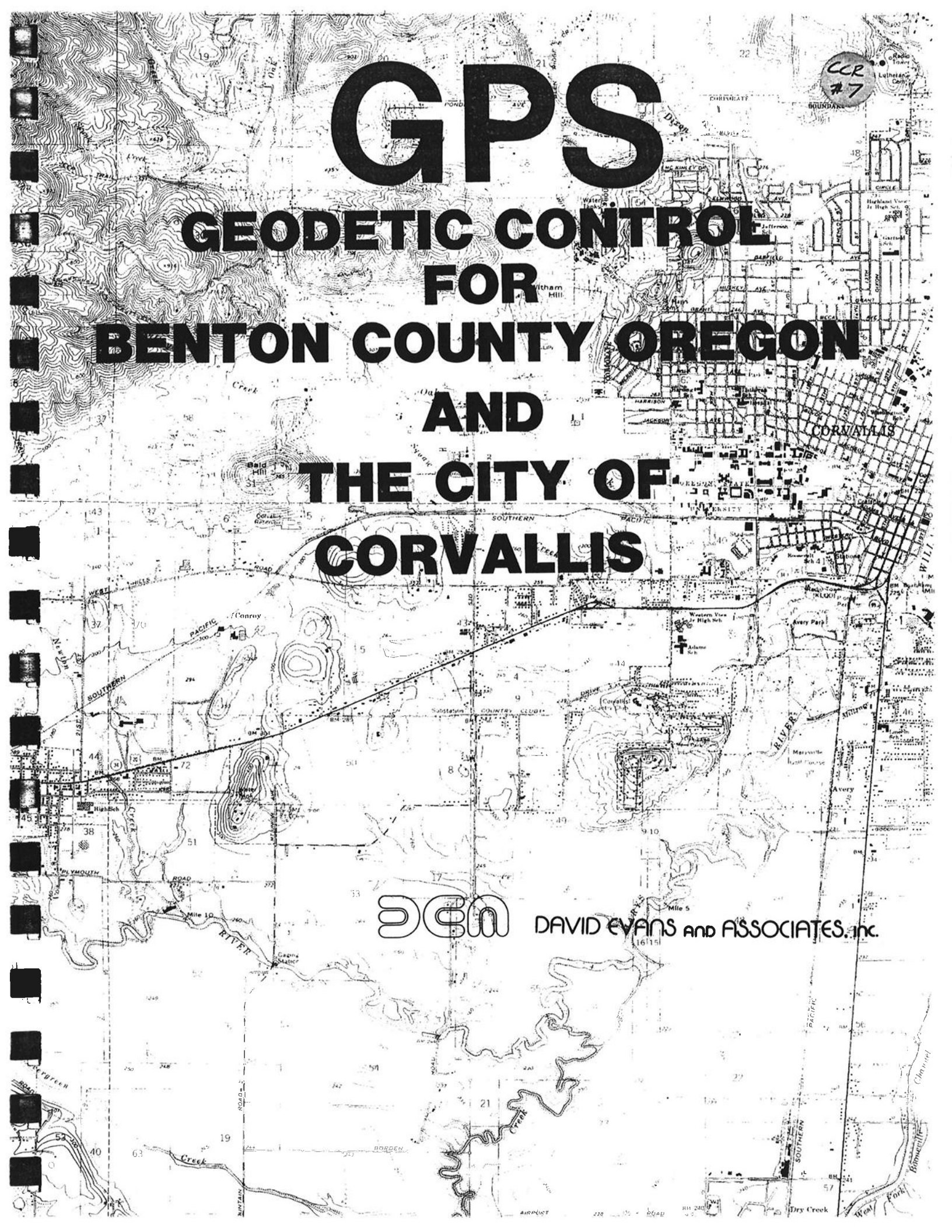
FOR ORIGINAL CCR 7 SEE SELF HELP AREA BOOK 7


BENTON COUNTY
CONTROL
CCR # 7
FILE DATE 7-27-1994
FILE SIZE 8½x11
VERTICAL ☒
HORIZONTAL ☒
SURVEYOR'S OFFICE
REPORT



CCR #7

GPS

GEODETIC CONTROL FOR BENTON COUNTY OREGON AND THE CITY OF CORVALLIS

DAVID EVANS AND ASSOCIATES, INC.

NARRATIVE - BENTON CO.

This work was performed for Benton County, Oregon at the instance of Benton County Public Works.

As this project was performed during the Great "Siberian Freeze" of the Winter of 1989, we were unable to get to first order control station "Mary" and consequently we incorporated some existing baselines, stations and observations from previous work performed by us in 1987.

Vertical control for the network was provided by Benton County, utilizing existing bench marks near each selected point, obtaining vertical values by differential means. Stations held for vertical control in the 3-D, least squares, cartesian coordinate adjustment program were "Chap", "Bick", "Club", "Bell", "Gran", "Circ", and "Garf". In comparison of geoidal separation from the "OSU 86" model (predictions at ±23cm) against those actually experienced (Ellipsoid Geiod) no gross anomalies were detected. Vertical values are based on the National Geodetic Vertical Datum of 1929 with whatever subsequent adjustment has taken place in the interim.

Horizontal control for the network was held fixed at NGS first-order control stations "Mary", "Peterson 3", "Twin" and "Yam". Additionally, we occupied second-order control stations "Bald" and "Bickford". By virtue of incorporating the four first-order control stations as the constraining values on the network, we were able to procure better values for these two second-order stations. Gross differences in latitude and longitude are not seen, but by not holding these second-order values as fixed, we did not plagiarize the overall quality of the entire network with these lesser quality values.

Our field procedures were in strict compliance with applicable standards as established by the Federal Geodetic Control Committee ("FGCC"). This concerns redundancy, repeat baselines, instrument height measurements, length of observations and so forth as each issue is addressed in the aforesaid publication. Monumentation would be the only item that would not fall within specifications, but each new station established is a brass cap in concrete in a monument box if it is located within an asphalt surface area. Monuments were set by Mr. Ray Wilson, Mr. Andy Foster and Mr. R.J. Zimmer of the Benton County Surveyor's office.

Our office procedures as well were in compliance with the "FGCC" document. All observations were pseudo-ranged and "time-tags" for clock corrections were applied. The "B" and "G" files were created within the adjustment software and are included with this

DAVID EVANS AND ASSOCIATES, INC.
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2626 S.W. CORBETT AVENUE
PORTLAND, OREGON 97201-4802
(503) 223-6663 FAX (503) 223-2701

report as informational only as without the appropriate software, they are virtually meaningless. The "D" files (station descriptions) are being produced by Benton using NGS software "DDPROC".

Loop misclosures were performed and are included in this report for inspection.

Finally, adjusted latitudes and longitudes on two different ellipses are given, one being the Clarke 1866 definition, which is used for the North American Datum of 1927 and the other the GRS 80 definition for the North American Datum of 1983. It is imperative that when working on either datum, appropriate values are applied for scale and grid factors, theta and definition of "the foot". The listing of State Plane Coordinates gives these values for each specific control station and either by interpolation or as with some geodetic traverse software, these intermediate values can be accounted for throughout a given traverse.

As a closing statement to overall quality of the network (in which the unconstrained network is evaluated) the spatial relationships range in value from less that one part-per-million to a high of less than five parts-per-million with the average being about two parts-per-million or one in five-hundred thousand. Vertical confidence regions about those stations not held vertically range in the two to three centimeter level.

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STATE PLANE COORDINATES

OREGON NORTH ZONE

NAD 1927

COORDINATE SYSTEM TRANSFORMATIONS

Coord File: BC0ØØ127.CRD
Coord System: LAMBERT NAD 27 Spheroid: Clark 1866
Zone: 99 Description: OREGON NORTH
Elevation Method: INDIVIDUAL

Point ID	NORTH / Latitude / Scale Factor	EAST / Longitude / Combined Factor	ELEV	Descriptor / Convergence
BALD ✓ GP-1	340721.0228 N 44 33 56.60655 Ø.99994958	1261605.9598 W 123 2Ø Ø1.514ØØ Ø.99991345	755.4ØØØ	SECOND ORDER CONTROL - 2 ØØ 34.77113
BCWP	286990.7913 N 44 25 19.82422 Ø.99997881	1301718.9701 W 123 1Ø 23.185ØØ Ø.99996628	261.94ØØ	DEA CONTROL - 1 53 44.62829
BELL ✓	320521.4607 N 44 3Ø 36.76565 Ø.99996Ø15	1260185.2573 W 123 2Ø 11.33210 Ø.99994846	244.41ØØ	BENTON CO. CONTROL - 2 ØØ 41.73399
BICK ✓ GP-3	312523.3221 N 44 29 22.84162 Ø.99996430	1274785.7642 W 123 16 46.172ØØ Ø.99995268	242.972Ø	SECOND ORDER CONTROL - 1 58 16.23732
CHAP ✓ GP-4	328292.Ø472 N 44 31 5Ø.78424 Ø.99995613	1252528.ØØ74 W 123 22 ØØ.7378Ø Ø.99994343	265.6Ø2Ø	BENTON CO. CONTROL - 2 Ø1 59.32299
CIRC ✓ GP-5	348477.4658 N 44 35 21.Ø629Ø Ø.99994539	1284797.9626 W 123 14 44.9889Ø Ø.99993483	220.77ØØ	BENTON CO. CONTROL - 1 56 5Ø.29596
CLUB ✓ GP-6	333288.2765 N 44 32 45.24723 Ø.99995325	1267389.3379 W 123 18 38.1057Ø Ø.99994105	255.Ø77Ø	BENTON CO. CONTROL - 1 59 35.61913
COWE	381440.8705 N 44 41 ØØ.12Ø54 Ø.99993Ø24	1326891.5075 W 123 Ø5 18.2Ø46Ø Ø.99992Ø66	2ØØ.3Ø6Ø	DEA CONTROL - 1 5Ø Ø8.34Ø45
GARF ✓ GP-7	346615.6613 N 44 34 59.66633 Ø.99994644	1275847.8197 W 123 16 47.7Ø9ØØ Ø.99993500	239.24ØØ	BENTON CO. CONTROL - 1 58 17.32734
GRAN ✓ GP-8	363439.2531 N 44 37 53.Ø3313 Ø.99993827	1297742.2459 W 123 11 53.12Ø2Ø Ø.99992743	226.597Ø	BENTON CO. CONTROL - 1 54 48.4Ø9Ø8
HERB ✓ GP-9	323557.1928 N 44 31 12.26Ø24 Ø.99995821	1276327.1399 W 123 16 3Ø.1487Ø Ø.99994697	234.911Ø	BENTON CO. CONTROL - 1 58 Ø4.87382

Point ID	NORTH / Latitude / Scale Factor	EAST / Longitude / Combined Factor	ELEV	Descriptor / Convergence
IRSH	264339.5502 N 44 21 36.67196 Ø.99999335	1302964.9278 W 123 Ø9 55.73140 Ø.99997971	285.Ø9ØØ	DEA CONTROL - 1 53 25.15858
JACK	365334.7974 N 44 38 2Ø.11777 Ø.99993706	1323620.7849 W 123 Ø5 56.28170 Ø.99992723	2Ø5.399Ø	DEA CONTROL - 1 5Ø 35.34420
MARY ✓	320489.2548 N 44 3Ø 16.27726 Ø.99996129	1204116.6516 W 123 33 Ø4.49540 Ø.99976522	4Ø99.9ØØØ	FIRST ORDER CONTROL - 2 Ø9 5Ø.Ø5Ø6Ø
MCCH	398436.9509 N 44 43 46.71905 Ø.99992377	1323262.6719 W 123 Ø6 15.98810 Ø.99991506	182.Ø97Ø	DEA CONTROL - 1 5Ø 49.31970
MUDD	3Ø6ØØ1.9726 N 44 28 27.87288 Ø.99996746	1302991.7129 W 123 1Ø 14.31530 Ø.99995555	249.Ø47Ø	DEA CONTROL - 1 53 38.33802
PETE	317408.3210 N 44 3Ø 37.19112 Ø.99996013	1356296.7935 W 122 58 Ø4.32210 Ø.99989168	1431.2ØØØ	FIRST ORDER CONTROL - 1 45 ØØ.637Ø5
ROSS ✓ GP-10	355788.3359 N 44 36 3Ø.25235 Ø.99994208	1276Ø21.7556 W 123 16 49.66810 Ø.99990360	8Ø4.58ØØ	BENTON CO. CONTROL - 1 58 18.71670
SIDY	416579.4956 N 44 46 46.29366 Ø.99991753	1324866.1346 W 123 Ø6 Ø1.87600 Ø.99990833	192.223Ø	DEA CONTROL - 1 5Ø 39.31160
THIN	436858.6Ø57 N 44 5Ø Ø3.81694 Ø.99991152	1316653.4620 W 123 Ø8 Ø4.84560 Ø.99990302	177.6Ø8Ø	DEA CONTROL - 1 52 Ø6.51992
TWIN	25Ø187.78Ø3 N 44 19 3Ø.29756 1.ØØØØØ2Ø9	1345Ø87.Ø274 W 123 ØØ 1Ø.2Ø73Ø Ø.99994Ø92	1278.9ØØØ	DEA CONTROL - 1 46 29.913Ø7
VIEW ✓ GP-11	363Ø91.2636 N 44 37 44.82847 Ø.99993864	1283420.7663 W 123 15 1Ø.88880 Ø.99992524	28Ø.288Ø	BENTON CO. CONTROL - 1 57 Ø8.66380
VILL	343253.6321 N 44 34 37.69338 Ø.99994752	1Ø9630.7179 W 123 Ø8 59.65240 Ø.99993693	221.529Ø	DEA CONTROL - 1 52 45.38814
WSGH	327257.2634 N 44 31 57.97603 Ø.99995575	1303975.6167 W 123 1Ø 1Ø.43780 Ø.99994422	241.Ø54Ø	DEA CONTROL - 1 53 35.58815

Point ID	NORTH Latitude Scale Factor	EAST	ELEV Longitude Combined Factor	Descriptor Convergence
YAMM	519885.2690Ø N 45 Ø3 43.31978 Ø.99989631	7519141.9652	1164.4ØØØ W 123 Ø8 37.4Ø89Ø Ø.99984Ø62	FIRST ORDER CONTROL - 1 52 29.61331

STATE PLANE COORDINATES

OREGON NORTH ZONE

NAD 1983

COORDINATE SYSTEM TRANSFORMATIONS

Coord File: BC000183.CRD
Coord System: LAMBERT
Zone: 99
Elevation Method: INDIVIDUAL
Spheroid: GRS 1980
Description: OREGON NORTH

Point ID	NORTH / Latitude / Scale Factor	EAST / Longitude / Combined Factor	ELEV	Descriptor / Convergence
BALD	340678.4221 N 44 33 56.04148 0.99994961	7463408.3403 W 123 20 05.87420 0.99991348	755.4000	SECOND ORDER CONTROL - 2 00 37.86327
BCWP	286947.8022 N 44 25 19.26711 0.99997885	7503521.0865 W 123 10 27.52370 0.99996632	261.9410	DEA CONTROL - 1 53 47.70519
BELL	320478.8234 N 44 30 36.20225 0.99996018	7461987.5026 W 123 20 15.69020 0.99994849	244.4100	BENTON CO. CONTROL - 2 00 44.82464
BICK	312480.5699 N 44 29 22.28009 0.99996433	7476587.9860 W 123 16 50.52380 0.99995271	242.9720	SECOND ORDER CONTROL - 1 58 19.32350
CHAP	328249.4781 N 44 31 50.21954 0.99995616	7454330.2864 W 123 22 05.09970 0.99994345	265.6020	BENTON CO. CONTROL - 2 02 02.41633
CIRC	348434.7294 N 44 35 20.49900 0.99994542	7486600.4476 W 123 14 49.34160 0.99993486	220.~~7700~~ 78 — VERTICAL CHANGED 12-6-99	BENTON CO. CONTROL - 1 56 53.38278
CLUB	333245.6202 N 44 32 44.68327 0.99995328	7469191.6846 W 123 18 42.46280 0.99994108	255.0770	BENTON CO. CONTROL - 1 59 38.70907
COWE	381397.9310 N 44 40 59.55715 0.99993026	7528694.3022 W 123 05 22.54610 0.99992068	200.3070	DEA CONTROL - 1 50 11.41934
GARF	346572.9801 N 44 34 59.10188 0.99994646	7477650.2676 W 123 16 52.06480 0.99993502	239.2400	BENTON CO. CONTROL - 1 58 20.41636
GRAN	363396.4649 N 44 37 52.46896 0.99993829	7499544.8569 W 123 11 57.47010 0.99992746	226.5970	BENTON CO. CONTROL - 1 54 51.49391
HERB	323514.4552 N 44 31 11.69785 0.99995824	7478129.4417 W 123 16 34.50130 0.99994700	234.9110	BENTON CO. CONTROL - 1 58 07.96057

Point ID	NORTH / Latitude / Scale Factor	EAST / Longitude / Combined Factor	ELEV	Descriptor / Convergence
IRSH	264296.5000 N 44 21 36.11700 0.99999338	7504766.9033 W 123 10 00.06670 0.99997975	285.0900	DEA CONTROL - 1 53 28.23306
JACK	365291.8420 N 44 38 19.55549 0.99993708	7525423.4700 W 123 06 00.62230 0.99992726	205.4010	DEA CONTROL - 1 50 38.42244
MARY	320446.9880 N 44 30 15.70940 0.99996132	7405918.8086 W 123 33 08.87340 0.99976525	4099.8000	FIRST ORDER CONTROL - 2 09 53.15536
MCCH	398394.0745 N 44 43 46.15394 0.99992379	7525065.5778 W 123 06 20.33300 0.99991508	182.0980	DEA CONTROL - 1 50 52.40100
MUDD	305959.0183 N 44 28 27.31416 0.99996749	7504793.9538 W 123 10 18.65600 0.99995558	249.0500	DEA CONTROL - 1 53 41.41634
PETE	317365.0417 N 44 30 36.63561 0.99996016	7558099.2272 W 122 58 08.64480 0.99989171	1431.2000	FIRST ORDER CONTROL - 1 45 03.70260
ROSS	355745.6748 N 44 36 29.68712 0.99994211	7477824.2656 W 123 16 54.02500 0.99990363	804.5800	BENTON CO. CONTROL - 1 58 21.80650
SIDY	416536.6487 N 44 46 45.72715 0.99991754	7526669.1655 W 123 06 06.22260 0.99990835	192.2230	DEA CONTROL - 1 50 42.39410
THIN	436815.8630 N 44 50 03.24814 0.99991153	7518456.6175 W 123 08 09.19770 0.99990304	177.5960	DEA CONTROL - 1 52 09.60632
TWIN	250144.3297 N 44 19 29.74633 1.00000213	7546889.0027 W 123 00 14.52550 0.99994095	1278.9000	DEA CONTROL - 1 46 32.97543
VIEW	363048.5694 N 44 37 44.26319 0.99993867	7485223.3431 W 123 15 15.24390 0.99992526	280.2870	BENTON CO. CONTROL - 1 57 11.75233
VILL	343210.7190 N 44 34 37.13190 0.99994755	7511433.2202 W 123 09 03.99540 0.99993695	221.5290	DEA CONTROL - 1 52 48.46808
WSGH	327214.3517 N 44 31 57.41551 0.99995577	7505778.0032 W 123 10 14.78080 0.99994424	241.0550	DEA CONTROL - 1 53 38.66810

Point ID	NORTH Latitude Scale Factor	EAST Longitude Combined Factor	ELEV	Descriptor Convergence
YAMM	519927.8150 N 45 03 43.89504 0.99989631	1317338.2710 W 123 08 33.04620 0.99984062	1164.4000	FIRST ORDER CONTROL - 1 52 26.51939

COLE
SURVEYING, INC.

City of Corvallis # 106

January 10, 2000

Mr. Ray Wilson PLS
Benton County Surveyor
360 SW Avery
Corvallis, OR. 97333

Re: City of Corvallis Control Survey Station Number 106

Dear Ray,

On December 6, 1999 we ran an elevation loop from the City of Corvallis Bench Mark No. 112 (Brass Cap in the curb at the northwest corner of 9th & Spruce, elevation 224.637) to the Brass Disk (City of Corvallis Control Survey Station Number 106) which is flush with the pavement at the intersection of Circle Blvd. and Jack London Street. Our elevation loop closed within a hundredth of a foot and we determined the elevation of Station Number 106 to be 220.78 feet. This agrees very closely (220.77 feet) with the elevation given on the City of Corvallis Point Data sheet for Station Number 106, even though the "description" given on the City's Data Sheet doesn't match its current physical location. (i.e. "hole cored in curb" versus flush with the pavement). If you have any questions regarding this matter please do not hesitate to contact our office.

Sincerely,

C. Henry Cole

C. Henry Cole, PLS

6765 SW Philomath Blvd. • Post Office Box 2258 • Corvallis, Oregon 97339
Office (541) 929-5500 • FAX (541) 929-5570 • Mobile (541) 740-1073

CITY OF CORVALLIS
CONTROL SURVEY
AND
AERIAL PHOTO CONTROL POINT DATA

See previous Page for new Elevation

STATION NUMBER: 106
MONUMENT TYPE: BRASS CAP
DATE ESTABLISHED: 01/01/78

MONUMENT SET BY: ODOT
IN MONUMENT BOX (Y/N): N
MONUMENT NAME: SE DLC #47

COORDINATES: LEVEL LOOP RUN BY COLE SURVEYING 12-6-99 → 220.78

NORTH(Y): 348,477.470 EAST(X): 1,284,797.960 ELEVATION: ~~220.770~~ CHANGED

STREET LOCATED ON: CIRCLE BLVD AT CROSS STREET:

DESCRIPTION: CHANGED IN PAVEMENT - 10-11-99
BRASS DISK ~~IN HOLE CORED IN CURB~~ MARKING THE SE CORNER OF DLC #47, T11S,R5W, ON N. SIDE OF CIRCLE BLVD, 500' W. OF E. BRANCH RAILROAD TRACKS.

BENTON COUNTY GPS STATION

PANEL INFORMATION:
DATE PANELLED: 01/30/89
PANEL SIZE: 6"X96"
NUMBER AND DIRECTION OF PANEL LEGS: SW&SE PANEL MATERIAL: PAINT

CITY OF CORVALLIS
CONTROL SURVEY
AND
AERIAL PHOTO CONTROL POINT DATA

STATION NUMBER: 107
MONUMENT TYPE: 3" BRASS DISK
DATE ESTABLISHED: / /

MONUMENT SET BY: CITY
IN MONUMENT BOX (Y/N): N
MONUMENT NAME: BM #130

COORDINATES:
NORTH(Y): 349,886.610 EAST(X): 1,277,269.040 ELEVATION: 282.640

STREET LOCATED ON: KINGS BLV AT CROSS STREET: WALNUT

DESCRIPTION:
STATION IS BM #130, IN CURB ON THE NE CORNER OF KINGS AND WALNUT.

PANEL INFORMATION:
DATE PANELLED: / /
PANEL SIZE: 6"X96"
NUMBER AND DIRECTION OF PANEL LEGS: SE&NE PANEL MATERIAL: PAINT

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: BALD

Quad Name: SALEM

State/County: ORE / BENTON

Year Established: 1940

Jones
Last Name

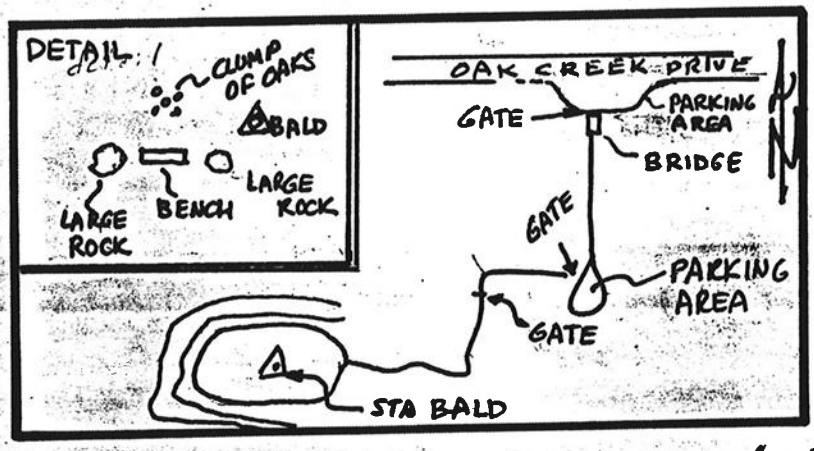
Year Recovered: 1989

REFERENCES: STATION IS 40' NORTH OF TOP OF RIDGE; 55' WEST OF 8" DIAM. OAK 20' EAST OF CLUMP

Monument Stamped

U.S. GEOLOGICAL SURVEY
BALD

Sketch OF SMALL OAKS



Fd. standard U.S.G.S. Brass CAP on pipe in conc. EXPOSED 1.5" ABOVE ground

Agency: U.S. GEOLOGICAL SURVEY / BENTON Co.

Directions: (How to reach the location. Person to contact.)

FROM intersection OF OAK creek drive, walnut, HARRISON & 53rd st. in corvallis, head west on oak creek drive 0.8 Miles to turn out on LT. pass thru gate & over Bridge X-ing creek & cont. on dirt Road 0.4 miles to gate on Rt, cont. 0.1 miles to gate on LT & cont. 0.6 Miles to top OF BALD Hill

Joseph W Jones
Signature

7 FEB 89
Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

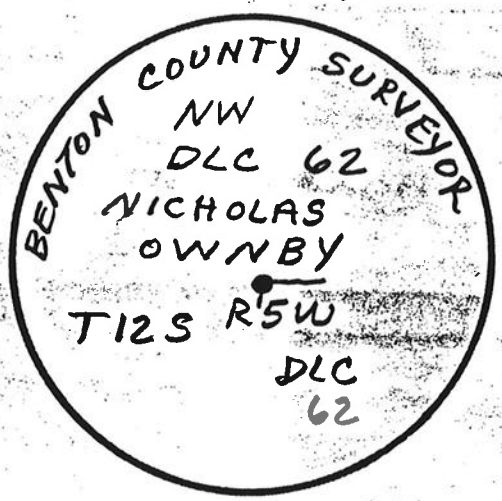
Please print all information.

Station Name: BELL Quad Name: SALEM

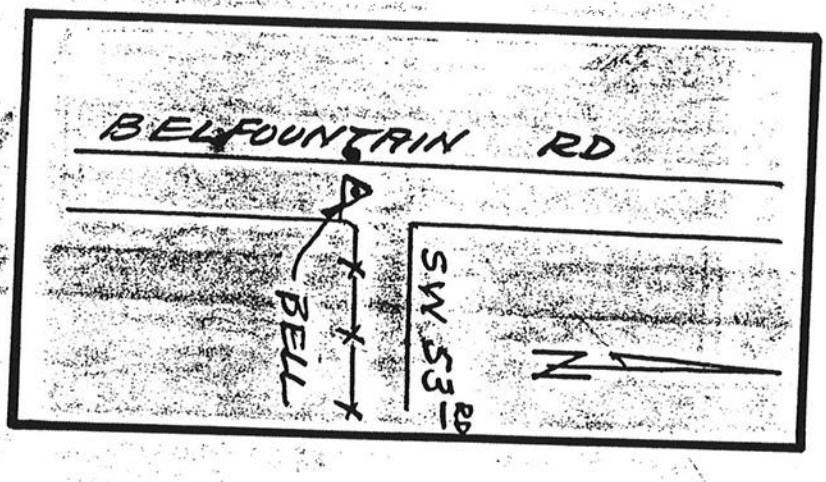
State/County: OR. BENTON Year Established: 1988

NEWTON Year Recovered: 1989
Last Name

Monument Stamped



Sketch



Agency: BENTON CO.

Directions: (How to reach the location. Person to contact.)

FROM CORVALLIS TRAVEL SOUTH ON 3RD ST. FOR 3.0 MILES FROM AVERY AVE. TURN RIGHT ON AIRPORT RD. FOR 3.9 MILES TO STOP LIGHT AT BELFOUNTAIN RD. TURN RT. AND GO NORTH 1.0 MILE TO STATION AT THE INTERSECTION OF SW 53RD ST. POINT IS IN THE CENTER OF THE SOUTH BOUND LANE, ON LINE WITH A FENCE TO THE EAST. MON. IS A 3 1/4" BRASS CAP IN CONC. AND IN A METAL MON. BOX AND SET ± 0.3' BELOW ASPHALT.

Norm Newton 2-6-89
Signature Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

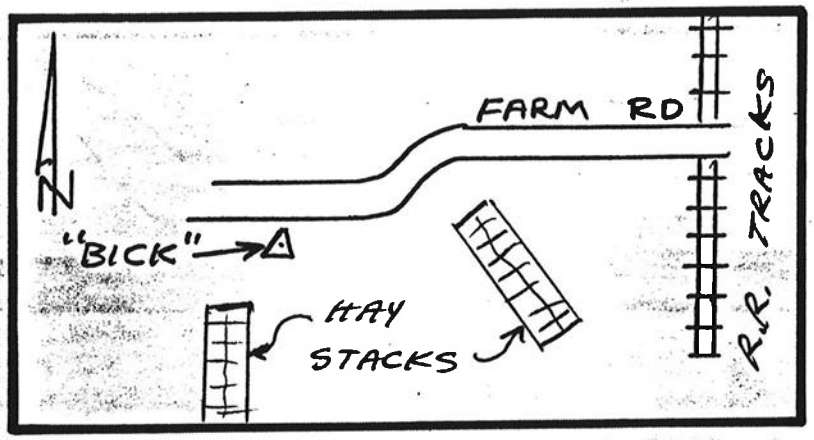
Station Name: BICK Quad Name: SALEM

State/County: OR/ BENTON Year Established: 1945

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

Sketch



4" USC&GS BRASS CAP
IN A 12" DIAM CONC. CYLINDER SET FLUSH WITH GROUND

Agency: USC&GS / BENTON CO.

Directions: (How to reach the location. Person to contact.)

FROM CORVALLIS TRAVEL SOUTH ON 3RD ST. 4.8 MILES FROM AVERY AVE. TURN RIGHT ON A PRIVATE RD. (AIRPORT ACCESS) WHICH IS OPPOSITE PAYNE RD. AND GO 0.45 MILE TO STA. WHICH IS ± 0.15 mi. WEST OF RR TRACKS, 60' SOUTH OF ROADWAY, 1' SOUTH OF METAL MARKER POST AND ± 130' NORTH OF THE WESTERLY OF TWO LARGE HAY STACKS.

Norton Newton 2-6-89
Signature Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

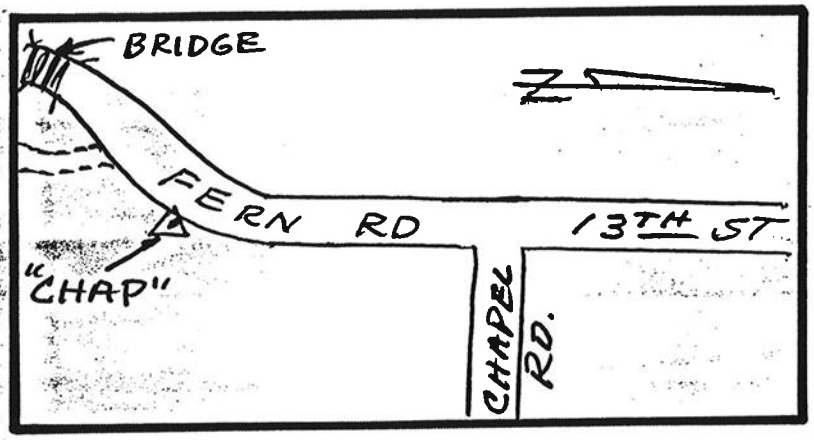
Station Name: CHAP Quad Name: SALEM

State/County: OR / BENTON Year Established: 1989

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

Sketch



Agency: BENTON Co.

Directions: (How to reach the location. Person to contact.)

POINT IS LOCATED ON FERN RD. 0.1 MILE SOUTH OF TH
INTERSECTION OF FERN, 13TH & CHAPEL RD. POINT IS LOCA
AT APPROX. MID POINT OF A CURVE AND ON THE EAST SHOULDE
OF THE ROAD. MON. IS A 3/4" BRASS CAP SET IN CONCRET
± 12 INCHES BELOW RD. SURFACE (APPROX. 3 FEET EAST OF PV
A FARM ACCESS RD. IS ± 85' SOUTH OF POINT.
BENTON COUNTY SET A SLIP TYPE WATER VALVE BOX OVER THE BRASS CAP. THE T
OF THE BOX IS 3" BELOW GROUND SURFACE CJL 10/7/94

Norm Newton 2-6-89
Signature Date

T11S R2W
S 25
NW/4

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

PLOTTED

Please print all information.

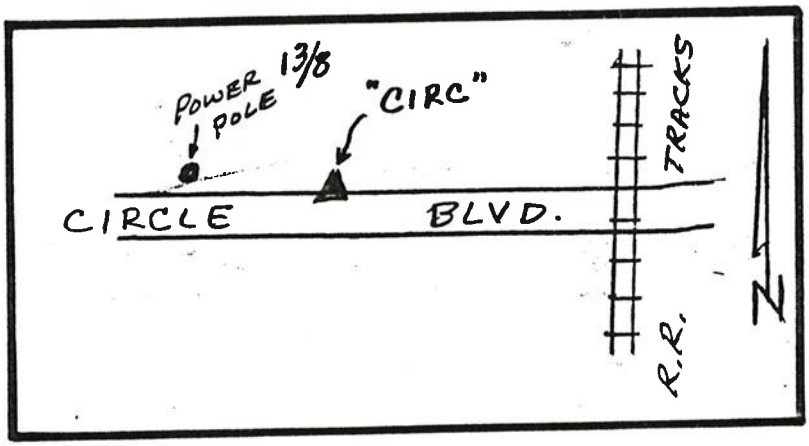
Station Name: CIRC = 1066 Quad Name: SALEM

State/County: OR / BENTON Year Established:

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

Sketch



Agency: OSHD / BENTON CO.

Directions: (How to reach the location. Person to contact.)

STATION IS LOCATED NE OF CORVALLIS ON CIRCLE BLVD. ±0.3 MILE EAST OF Hwy. 99W. IT IS SITUATED IN THE NORTH CURB AND FLUSH WITH PAVEMENT. IT IS 23' EAST OF PP&L POLE # 13/8 AND ±200' WEST OF R.R. TRACKS. MON IS A 3½" BRASS DISK IN CONCRETE.

Signature

2-6-89
Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

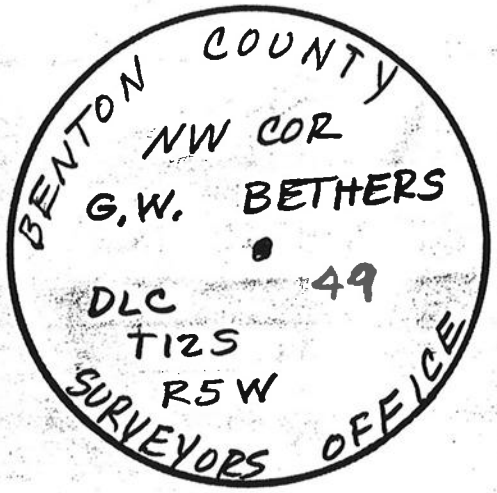
Please print all information.

Station Name: CLUB Quad Name: SALEM

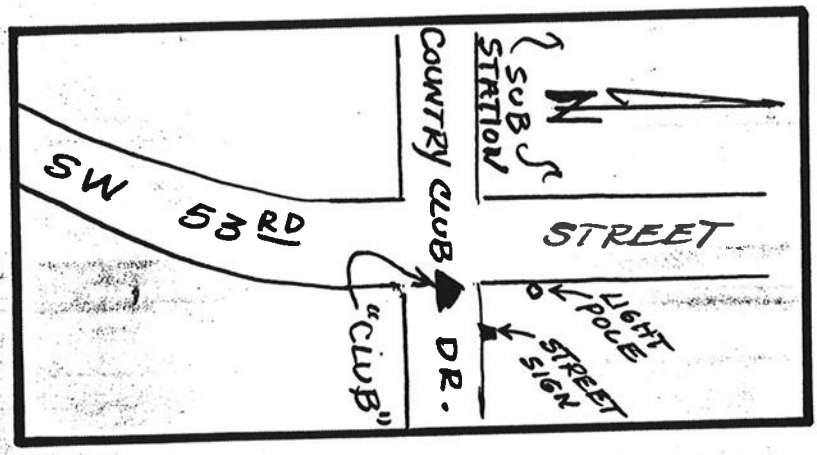
State/County: OR / BENTON Year Established:

NEWTON Year Recovered: 1989
Last Name

Monument Stamped



Sketch



Agency: BENTON CO.

Directions: (How to reach the location. Person to contact.)

THIS STATION IS LOCATED AT THE INTERSECTION OF SW 53RD ST. AND COUNTRY CLUB DR. NEAR THE EAST R/W LINE OF 53RD ST. AND ± 5 FEET NORTH OF COUNTRY CLUB DR. Ø. A LIGHT POLE IS NORTH 25' AND A STREET SIGN POST IS NE 15'. MON. IS A 2½" DIAM. BRASS CAP ON A PIPE, SET IN CONCRETE ± 0.3' BELOW ROAD SURFACE, IN A METAL MON. BOX.

Norm Newton 2-6-89
Signature Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: GARF

Quad Name: SALEM

State/County: OR / BENTON

Year Established: 1989

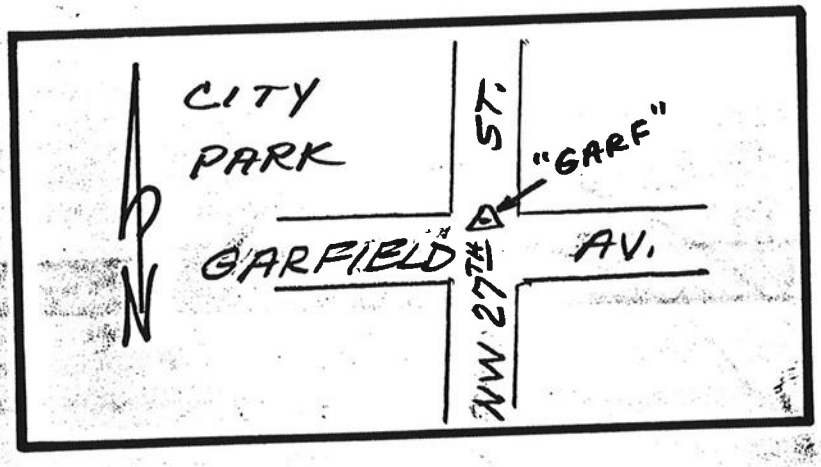
Year Recovered: 1989

NEWTON
Last Name

Monument Stamped

GPS
STA 71
1989

Sketch



Agency: CITY OF CORVALIS

Directions: (How to reach the location. Person to contact.)

STATION IS LOCATED IN CORVALLIS AT THE INTERSECTION OF NW 27TH ST AND GARFIELD AVE. IT IS SITUATED IN THE ℄ OF 27TH AT THE NORTH CURB LINE OF GARFIELD AV. MON. IS A 3¼" BRASS CAP ON A GALVANIZED PIPE, IN CONCRETE, ± 0.3 FOOT BELOW ASPHALT SURFACE, IN A METAL MON. BOX.

Norm Newton
Signature

2-6-89
Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: GRAN Quad Name: SALEM

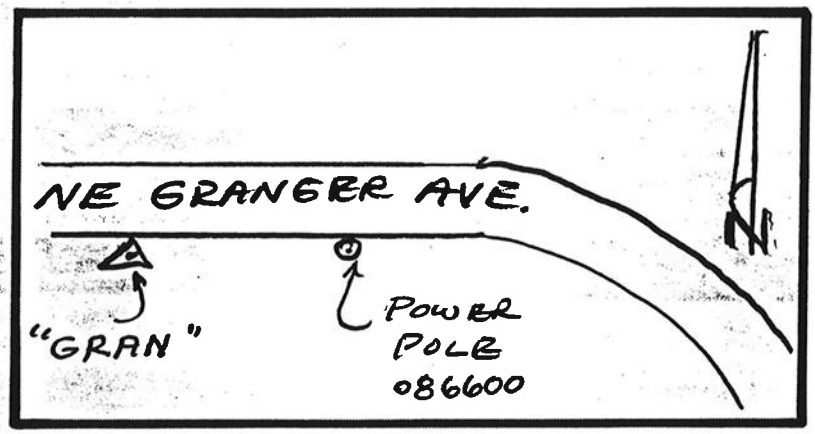
State/County: ORI BENTON Year Established: 1989

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

GPS
GRANGER
1989

Sketch



Agency: BENTON CO.

Directions: (How to reach the location. Person to contact.)

FROM Hwy. 20, NW OF CORVALLIS EXIT WEST ON NE GRANGER AVE. FOR 0.2 MILE TO STATION SET IN THE SOUTH SHOULDER OF RD. POINT IS APPROX. 155' WEST OF POLE # 086600 AND 13' SOUTH OF RD. ℄, 6' NORTH OF CARSONITE WITNESS POST. MON. IS 3¼" BRASS CAP SET IN CONCRETE 1 12" BELOW RD. SURFACE.

Norm Newton 2-6-89
Signature Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all Information.

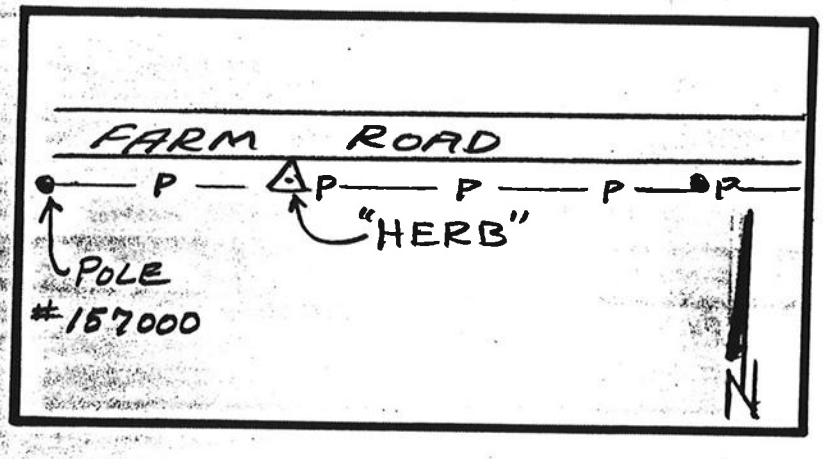
Station Name: HERB Quad Name: SALEM

State/County: OR / BENTON Year Established: 1989

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

Sketch



Agency: BENTON Co.

Directions: (How to reach the location. Person to contact.)

FROM CORVALLIS TRAVEL SOUTH ON 3RD ST. 2.2 MILES FROM AVERY AVE. . TURN RIGHT ON HERBERT AVE. AND GO EST 0.4 MILE TO STATION, LOCATED IN THE SOUTH TRACK OF THE ROAD. MON. IS A 3¼" BRASS CAP SET IN CONCRETE AND 0.7 FOOT BELOW GROUND SURFACE. POWER POLE 157000 IS WEST ± 120'.

Signature 2-06-89
Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: MARY

Quad Name: SALEM

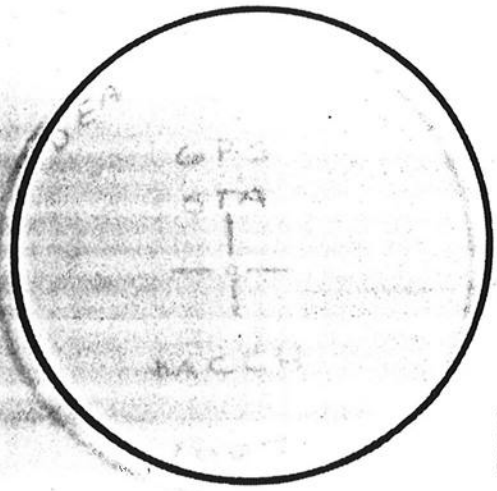
State/County: OR. / BENTON

Year Established: 1972

Year Recovered: 1987

KLUESNER
Last Name

Monument Stamped



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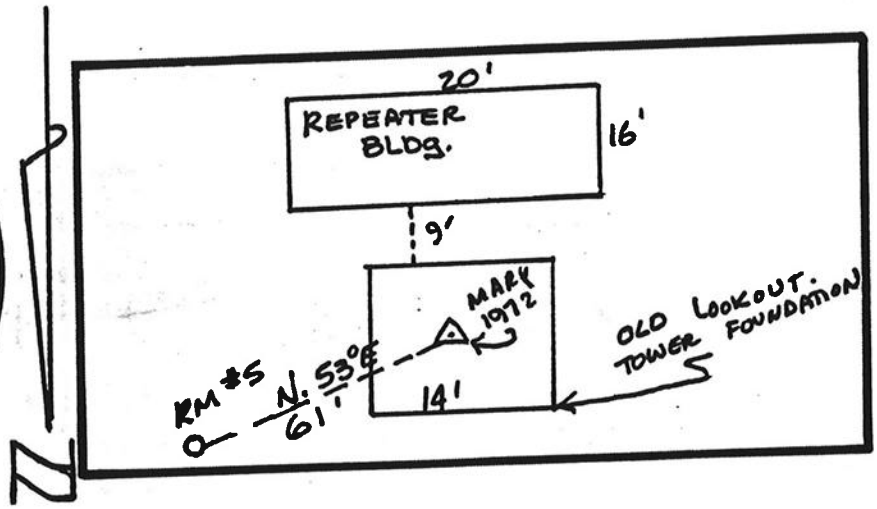

Agency: DEA INC / USC & GS / AT&T / BENTON Co.

Directions: (How to reach the location. Person to contact.)

STATION IS LOCATED NEAR REPEATER TOWERS ATOP MARY's PEAK. ; BENTON Co. OR.

Carl R. Klu

Signature

2/3/89

Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: ROSS Quad Name: SALEM

State/County: OR / BENTON Year Established: 1989

NEWTON Year Recovered: 1989
Last Name

Monument Stamped

GPS
CHIP
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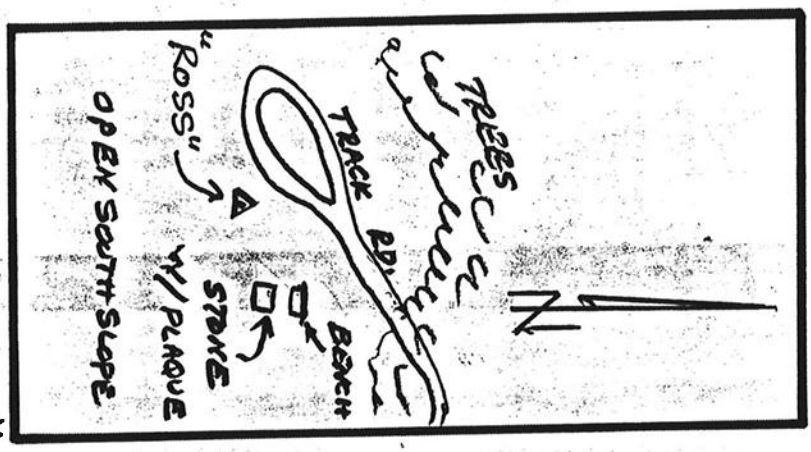
1989

3¼" DIAM BRASS DISK
SET IN CONCRETE FLUSH WITH GROUND

Sketch



Agency: BENTON CO.

Directions: (How to reach the location. Person to contact.)

FROM WALNUT ST. IN CORVALLIS TRAVEL NORTH ON HIGHLAND WAY FOR 0.9 MILES. TURN LEFT AT RD. AND SIGN TO CHIP ROSS PARK AND GO 0.75 MILE TO PARKING AREA. GO THROUGH LOCKED GATE STOP AND FOLLOW UNIMPROVED ROAD NORTH TO SUMMIT OF HILL AND STATION. POINT IS LOCATED ON AN OPEN SOUTH SLOPE ± 150' SOUTH OF TREELINE. A LARGE STONE WITH A BRASS DEDICATION PLAQUE IN THE TOP BEARS N 75°E 16.8' TO WEST EDGE.

Norm Newton 2-8-89
Signature Date

DAVID EVANS AND ASSOCIATES, INC.

GPS STATION DATA SHEET

Please print all information.

Station Name: VIEW

Quad Name: SALEM

State/County: OR / BENTON

Year Established: 1989

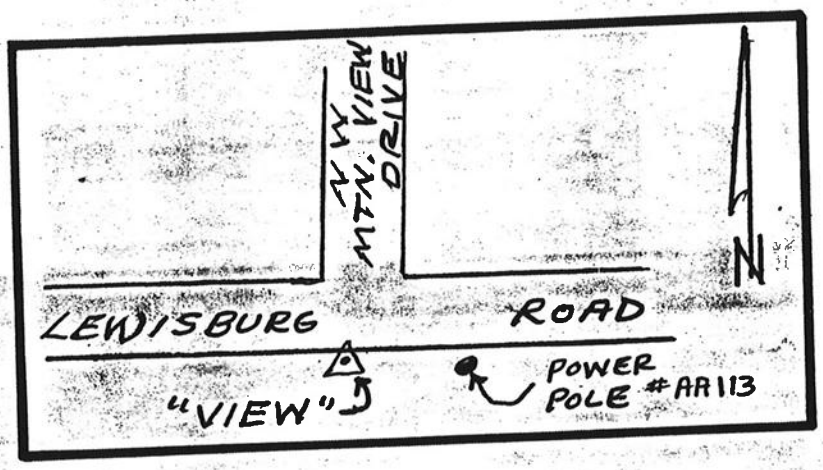
Year Recovered: 1989

NEWTON
Last Name

Monument Stamped

GPS
MT. VIEW
1989

Sketch



Agency: BENTON CO.

Directions: (How to reach the location. Person to contact.)

STATION IS LOCATED ON LEWISBURG RD. 0.65 MILE WE
OF HWY. 99W AT THE INTERSECTION OF NW MOUNTAIN VIEW
IT IS SITUATED ON THE SOUTH SHOULDER OF THE RD. A
± 7' WEST OF MT. VIEW DR. & EXTENDED, AND 1' OFF
PAVEMENT, 3' NORTH OF GARSONITE WITNESS POST AND 2
WEST OF POWER POLE # AA 113. MON. IS A 3¼" BRAS
DISK SET IN CONCRETE ± 14" BELOW GROUND

John Newton — Signature
2-6-89 — Date

BENTON COUNTY SET A SLIP TYPE WATER VALVE BOX OVER THE BRASS CAP - TI
TOP OF THE BOX IS 2" BELOW GROUND SURFACE CTL 10/7/94